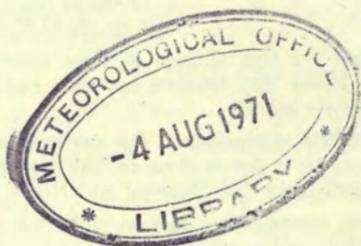


SECRET

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.

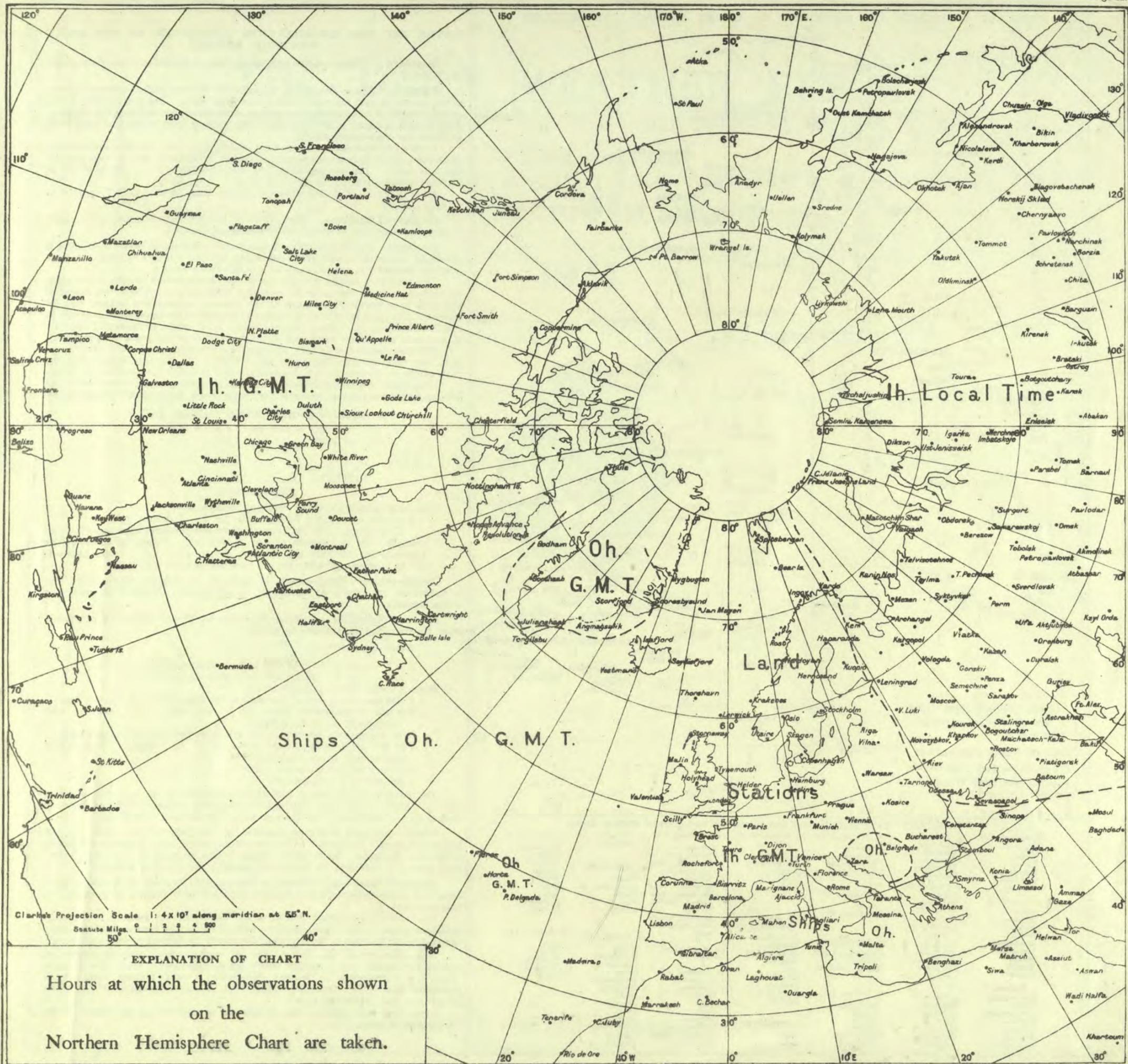
The districts to which warnings are sent are shown in the Report by the following symbols written on page 2 against the forecast districts to which they apply:—

▲ 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 STATIONS IN GREAT BRITAIN AND IRELAND



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.	13a. Scotland, N.W. 16. Orkneys and Shetlands. Hebrides. Western parts of Inverness, Ross and Cromarty, Sutherland. (Boundary line runs from Rannoch Station through Fort Augustus, Beaulieu and Lairg to Melvich.)	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. Isle of Man. Dumfries. Kirkcudbright. Wigtown. Ayr. Lanark. Renfrew. Dumbarton. Stirling.	14. Mid Scotland. Perth.	17. Ireland, N.W. Galway. Roscommon. Mayo. Sligo. Leitrim.
3. Midlands, E. Buckingham. Oxford. Northampton. Warwick. Leicester. Rutland. Nottingham.	7. Wales, N. Montgomery. Merioneth. Flint. Denbigh. Carnarvon. Anglesey.	10. England, N.E. Yorkshire, N. & E. Durham. Northumberland.	15. Scotland, N.E. Kincairdine. Aberdeen. Banff. Elgin. Nairn. Caitness. Eastern parts of Inverness, Ross, Sutherland.	18. Ireland, N.E. Meath. West Meath. Longford. Cavan. Fermanagh. Monaghan. Louth. Armagh. Down. Antrim. Londonderry. Tyrope. Donegal.	20. Ireland, S.W. Cork. Kerry. Limerick. Tipperary. Clare.

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

Standard of Time.—Greenwich Mean Time is exclusively used throughout the Report.

Stations.—*Kew.*—Temperature readings at Kew are taken in a large 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.

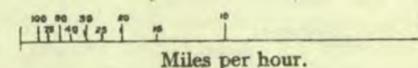
The wind at a height of 1,500–2,000 feet above ground usually blows along the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, e.g., for isobars 1 inch apart for the chart on Page 2 the speed of the upper 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 × 10⁷ Charts.
or 2 mb " " 1:10⁷ " "



This scale applies under the following conditions:—

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

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

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

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

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

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

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

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.

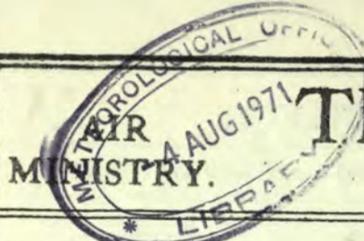
Wind.—All wind directions specified in the reports are "true," as distinguished from "magnetic." The arrows indicating wind direction are drawn to fly with the wind. Each feather denotes two steps on the Beaufort Scale; thus force 5 is indicated by two whole feathers and one half feather.

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.



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

DUPLICATE ~~SECRET~~
MONTHLY SUPPLEMENT,

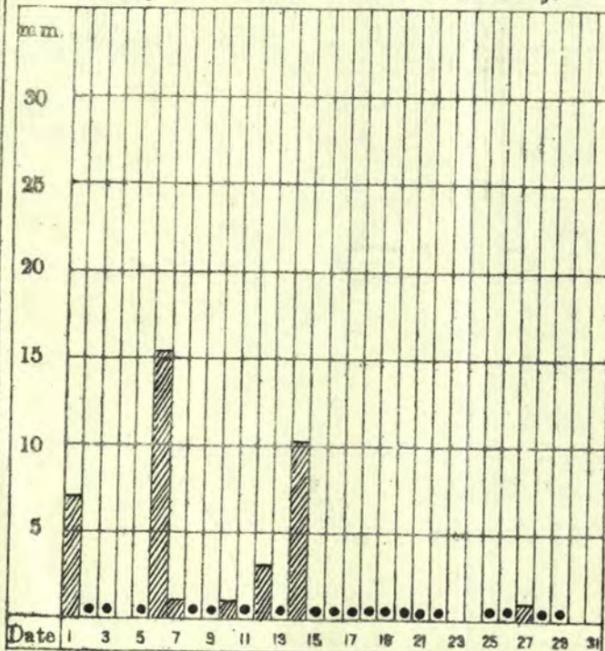
December 1941 No. 300

Dry, quiet and mild.

The month opened cold and dull with pressure high to east and low to northwest of the country. Fog was widespread and persisted throughout the day in the Southeast. Cyclonic activity near Iceland became more marked, and milder air from the Southwest spread over Scotland and Ireland on the 3rd and covered England by the 5th. The fog was finally dispersed on this day by strong winds developing everywhere as a very deep depression moved northeast to the northward of Scotland. In its rear strong northwest winds brought a fall in temperature on the 7th with broken skies and some good sunshine records. By the 9th, however, a mild westerly air current had become established, with pressure high to the south and low to the north of the country, and unsettled mild conditions were general for the next few days, with some gales in the North. On the 14th, a very deep depression crossed Iceland (lowest pressure 940mb) and for the next few days fair weather ensued over most of England and Wales, with several good sunshine records. Subsequently, an anticyclone moved in from southwest over the country and in Scotland but became cold in foggy areas and dull weather was experienced generally for the next few days, though there were a few bright periods, and temperature rose somewhat in the Southeast. On the 26th, polar air from the North spread over most of the country and caused rain and snow in Ireland and the West of England. Small depressions moved down from Iceland and giving fair and quiet, cold conditions with fog and frost at night, and there were some good sunshine records.

Rainfall was generally below average, and in some Eastern districts it was the driest December on record; Tynemouth had only 7mm rain during the month. Temperature was mainly above average but the last week was cold. Maxima above 50°F were general during the first three weeks, 58°F being reached at Mildenhall, Bristol and Pembroke on the 14th and at Manston on the 10th. The freezing point was not exceeded during the day in places during the last week, the max on the 30th at Aldergrove being only 31°F. Screen minima about 20°F occurred on the 28th & 29th. Sunshine was about average except in the Northwest, where Aldergrove had a low record of 19hrs. Three or more sunshine were enjoyed on several days towards the end of the month. Gales were much less frequent than usual in December and mostly occurred in the first half of the month. Gusts of over 100mph were reported from Sumburgh (Shetlands) on evening of 6th, when a gust of 83mph was also reported from Okeby.

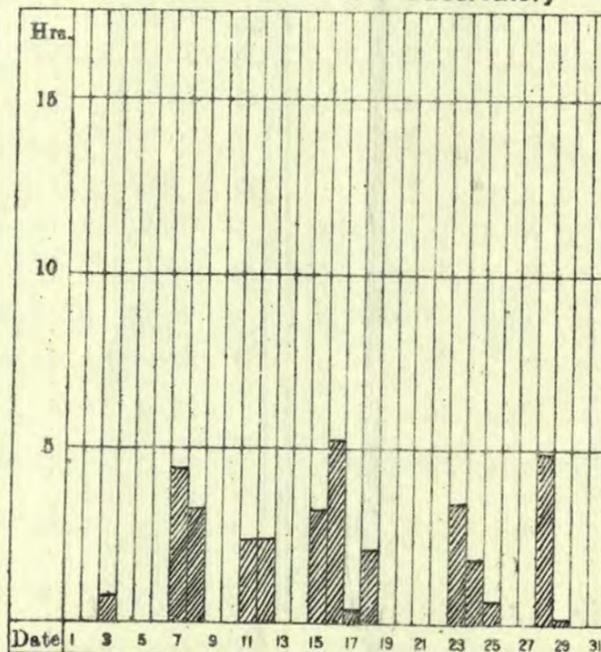
Daily Rainfall at KEW Observatory.



• = Less than 0.5 mm.

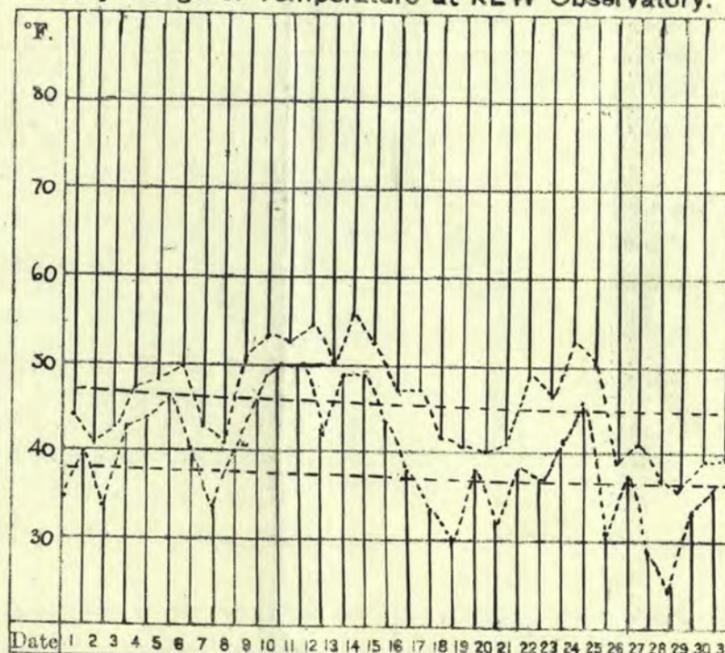
RAINFALL. Total for Month. 40 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 36 hrs.

Daily Range of Temperature at KEW Observatory.



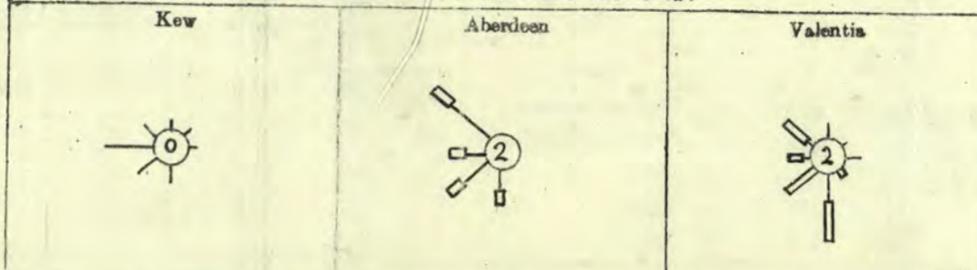
TEMPERATURE. The peaked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

STATIONS.	PRESSURE		TEMPERATURE	
	Mean	Difference from average	Mean	Difference from average
Kew	mb. 1024.4	mb. +10.7	°F. 42.5	+1.1
Aberdeen	1014.3	+8.0	41.6	+1.5
Valentia	1023.5	+13.2	48.1	+2.0

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

WIND FREQUENCIES AT 7 hr.



Forces 1-3 — ; forces 4-7 — ; force 8 or above — . Scale; 10mm. to 10 observations.

The figure in the centre of the circle gives the number of gales.

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

	miles.
Kew	5880
Aberdeen ...	6100
Lerwick ...	17684
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.					Minimum.					Days.			Nights.			7 h.		13 h.		18 h.		7 h.			13 h.													
		32° or below	33° - 41°	42° - 50°	51° - 59°	Average Maximum.	23° or below	24° - 32°	33° - 41°	42° - 50°	51° - 59°	Average Minimum.	Highest Max.	Lowest Max.	Highest Min.	Lowest Min.	Number of Ground Frosts.	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	11	12	8	44.8	0	5	14	12	0	38.0	56	14	36	29	50	11	25	29	14	3	27	0	5	23	0	2	22	0	0	3	5	3	0	0	2	8	1	7
	Croydon	0	10	15	6	44.4	1	7	13	10	0	37.5	56	14	37	29	50	10	21	29	11	6	13	1	7	20	1	5	17	2	0	3	5	5	5	0	3	2	6	9
	Calshot** (Southampton)	0	3	18	10	46.6	0	7	14	10	0	39.6	56	4	39	26	50	15	25	29	11	4	23	0	5	22	1	7	19	0	0	1	1	4	10	0	1	3	4	7
	Lympne	0	8	17	6	43.4	0	7	16	8	0	36.3	54	10	35	28	49	15	24	29	10	7	17	2	8	20	0	6	14	1	0	3	5	5	5	1	1	2	6	10
2	Shoeburyness	0	8	16	7	44.7	1	6	12	12	0	36.1	56	12	37	28	50	11	23	29	12	5	19	1	6	8	1	6	12	2	0	1	8	1	1	0	3	7	1	8
	Gorleston	0	9	16	6	44.1	0	6	14	11	0	37.6	57	10	36	31	50	11	25	29	8	6	20	0	6	21	0	9	17	0	0	2	3	1	4	0	2	3	2	8
	Cranwell	0	8	18	5	42.7	0	8	12	10	1	35.2	57	14	35	28	51	25	24	29	9	2	23	0	2	20	2	3	17	1	0	1	7	2	1	0	1	5	4	5
3	Birmingham (Edgbaston)	0	8	19	4	42.6	0	4	16	11	0	36.3	55	14	35	28	48	12	25	29	11	8	16	0	4	21	0	4	23	0	1	1	8	5	8	0	1	5	2	8
	Ross-on-Wye	0	6	15	10	44.7	0	4	13	14	0	37.3	57	14	33	31	50	10	25	29	9	3	26	0	5	25	0	5	24	0	0	3	4	2	16	0	1	3	2	18
5	The Lizard	0	0	15	16	*	0	0	4	26	1	*	55	2	45	29	51	12	36	30	*	1	30	0	2	29	0	1	30	0	0	0	1	0	29	0	0	0	2	29
7	Holyhead (Valley)	0	1	18	12	46.9	0	1	9	21	0	42.5	53	11	41	29	50	10	32	30	2	0	31	0	7	23	0	3	28	0	0	0	0	1	20	0	0	0	1	22
8	Chester (Sealand)	0	6	11	14	45.2	0	4	10	14	3	37.1	57	10	37	30	51	10	27	29	9	3	21	1	1	26	2	3	22	1	2	0	4	6	6	0	0	6	0	12
10	Tynemouth	1	6	14	10	44.4	0	3	14	14	0	38.4	55	10	32	28	50	12	31	29	4	0	29	0	1	27	0	0	27	0	0	0	2	1	13	0	0	1	0	9
11	Leuchars	0	10	16	5	43.5	1	3	20	7	0	35.6	55	24	34	28	48	24	22	28	13	0	27	0	0	25	0	2	23	1	0	1	0	2	21	0	0	0	1	20
12	Renfrew	0	7	16	8	43.6	0	6	14	11	0	35.8	53	12	34	30	50	24	26	20	13	1	28	1	2	27	0	3	25	0	0	1	2	4	15	1	1	3	1	15
13	Eskdalemuir	0	10	21	0	40.7	3	7	15	6	0	33.5	49	24	33	27	46	10	20	29	12	14	15	0	11	18	0	18	9	0	0	2	2	2	18	0	1	1	0	18
	Stornoway	0	3	22	6	44.9	0	0	17	14	0	38.5	53	2	38	27	50	3	34	7	*	0	30	0	3	28	0	3	28	0	0	0	0	0	29	0	0	0	0	30
15	Aberdeen	0	7	18	6	43.4	1	2	21	7	0	36.9	56	24	34	27	49	24	20	28	10	1	28	0	1	22	0	2	20	0	0	0	1	3	17	0	0	0	0	11
18	Aldergrove	2	2	23	4	43.9	1	3	16	11	0	36.7	51	13	31	30	47	24	21	30	5	9	19	0	10	20	0	3	27	0	1	2	0	1	19	0	2	1	0	19
19	Birr Castle	0	1	20	10	45.8	0	2	15	14	0	37.8	55	10	40	30	47	10	24	30	4	0	28	0	0	29	0	0	27	0	0	0	0	0	31	0	0	0	0	31
20	Valentia (Cahiriveen)	0	0	12	19	49.1	0	0	4	27	0	43.0	55	11	47	29	50	11	39	18	0	4	27	0	5	25	1	6	25	0	0	0	0	25	0	0	0	0	24	

UPPER AIR TEMPERATURE.

UPPER WINDS.

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

Pressure.	Normal Height.	BIRCHAM NEWTON								ALDERGROVE.		PENZANCE		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	
		°F.	°F.			°F.	°F.			°F.	°F.				Metres.	kilometres per hour.		kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.	kilometres per hour.		kilometres per hour.																	
950	1730	38.1	38.7	61	38.7	62	41.9	29	500 above ground.	85	14	34	34	2	0	23	6	13	4	0	0	19	5	13	1	0	0	16	6	6	2	2	0	500 above ground.																				
850	4640	31.7	31.3	61	34.2	62	35.6	29	1000 above M.S.L.	65	19	28	17	1	0	15	4	7	4	0	0	11	3	6	2	0	0	10	3	3	2	2	0	1000 above M.S.L.																				
750	7870	23.6	24.9	61	27.0	62	29.3	29	2000 "	25	7	10	7	0	0	5	1	1	0	0	0	3	0	2	1	0	0	4	0	3	1	0	0	2000 "																				
650	11490	12.4	13.4	61	15.8	61	17.7	29	3000 "	9	1	1	1	0	0	3	2	1	0	0	0	0	0	0	0	0	0	3	1	2	0	0	0	3000 "																				
550	15620	-1.7	-0.8	61	0.3	60	4.3	29	4000 "	5	1	3	1	0	0	3	2	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	4000 "																					

† The readings and averages used, are, except in the case of Phoenix Park, the maximum for the period 7 h.-18 h., and the minimum for the period 18 h.-7 h. The readings and averages for Phoenix Park are for daily periods ending 21 h. Averages are for periods of at least 10 years (See M.O.364).

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

SUNSHINE, RAINFALL, AND HUMIDITY *December* 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.	Hours.	Hours.	Hours.	Hours.	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.	mm.	mm.	mm.	First year of record.	Highest. Year.	Lowest. Year.	mm.	mm.	
1	London (Kew Obey). Croydon Thorney Island... Lympne ...	18	7	6	0	0	5.3	16	1341	-128	36	-1	1880	72 1886	0 1890	19	6	3	2	1	0	16	6	717	+111	40	-18	1856	162 1914	6 1926	0	1			
2	Shoeburyness... Gorleston ... Cranwell ...	13	13	4	1	0	6.3	28	1464	-252	44	-5	1919	77 1936	20 1934	22	6	2	0	1	0	25	6	481	-22	33	-14	1920	34 1937	5 1932	0	0			
3	Birmingham (Edgbaston)	13	15	3	0	0	5.9	16	1144	-160	34	-1	1887	90 1891	5 1890	13	8	8	2	0	0	13	6	827	+153	49	-19	1893	155 1914	11 1926	0	2			
4	Ross-on-Wye ...	9	13	7	2	0	6.2	20	1362	-123	50	+2	1915	73 1929	30 1927	18	6	4	2	1	0	19	6	708	-9	45	-31	1859	196 1929	11 1926	0	1			
5	Falmouth (Observatory)	10	14	7	0	0	5.4	3	1675	-35	48	-5	1881	82 1886	19 1890	14	4	8	3	2	0	21	6	975	-132	89	-70	1871	280 1915	21 1926	0	0			
7	Holyhead (Valley)	Not Recorded										1914	71 1916	15 1931	14	7	8	2	0	0	8	6	725	-162	39	-67	1871	241 1934	21 1926	0	0				
8	Chester (Sealand)	16	11	4	0	0	5.9	17	1323	-53	32	-9	1928	76 1929	23 1927	17	3	9	2	0	0	9	7	625	-13	34	-29	1922	114 1929	15 1933	0	1			
10	Tynemouth ...	Not Recorded										1935	* * * *	23	6	2	0	0	0	1	14	668	+47	7	-48	1915	136 1937	15 1932	0	0					
11	Leuchars ...	3	17	5	0	0	4.9	19	1183	-287	43	-1	1922	66 1929	16 1934	19	6	5	1	0	0	9	14	676	+23	29	-34	1922	35 1929	8 1926	0	2			
12	Renfrew ... Eskdalemuir ...	19	8	4	0	0	5.1	17	1083	-110	26	-1	1921	46 1938	9 1935	15	5	7	3	1	0	19	14	779	-160	64	-49	1921	230 1929	15 1933	0	1			
13B	Stornoway	12	12	7	0	0	5.2	17	1129	-72	36	+4	1910	60 1935	3 1912	13	5	8	3	2	0	18	13	1230	-199	86	-92	1910	339 1932	37 1933	0	0			
15	Aberdeen ...	22	7	2	0	0	5.0	27	1212	-3	15	-7	1881	54 1935	6 1884	5	6	11	9	0	0	10	14	883	-383	106	-53	1870	378 1898	30 1927	0	1			
18	Aldergrove ...	9	13	9	0	0	5.0	10	1148	-181	51	+14	1881	68 1891	7 1903	20	7	2	2	0	0	7	26	818	+70	21	-61	1871	227 1876	20 1905	0	4			
19	Birr Castle ...	Not Available										1881	68 1881	22 1884	12	10	6	3	0	0	13	4	741	-86	58	-26	1862	165 1929	24 1885	*	*				
20	Valentia (Cahiriveen)	Not Available										1880	76 1938	14 1931	8	7	11	3	2	0	19	4	* *	95	-74	1866	345 1934	37 1926	*	0					

MINIMUM SURFACE HUMIDITY.
NO. OF DAYS (MDT. TO MDT.) WITH MINIMA BETWEEN FIXED LIMITS.

STATE OF GROUND AT 18 h.
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.	
	100 %	94 %	89 %	79 %	69 %	59 %	49 %	39 %	29 %	19 %		0	1	2	3	4	5	6	7	8	9		
London (Kew)	1	2	8	8	8	4	0	0	0	0	London (Kew)	0	30	0	1	0	0	0	0	0	0	0	0 Dry.
Ross-on-Wye ...	1	3	4	14	8	1	0	0	0	0	Ross-on-Wye	0	31	0	0	0	0	0	0	0	0	0	1 Wet.
Falmouth (Obsy.)	4	4	12	9	2	0	0	0	0	0	Renfrew ...	0	30	1	0	0	0	0	0	0	0	0	2 Flooded.
Renfrew ...	0	1	9	12	7	2	0	0	0	0	Eskdalemuir	0	24	0	7	0	0	0	0	0	0	0	3 Frozen hard and dry.
Eskdalemuir ...	0	4	8	13	5	1	0	0	0	0	Aberdeen ...	0	26	0	2	0	0	1	0	0	0	0	4 Partly covered with snow or hail.
Aberdeen ...	0	0	2	10	13	5	1	0	0	0	Valentia ...	0	31	0	0	0	0	0	0	0	0	0	5 Covered with ice or glazed frost.
Valentia ...	0	4	8	13	6	0	0	0	0	0												6 Covered with thawing snow.	

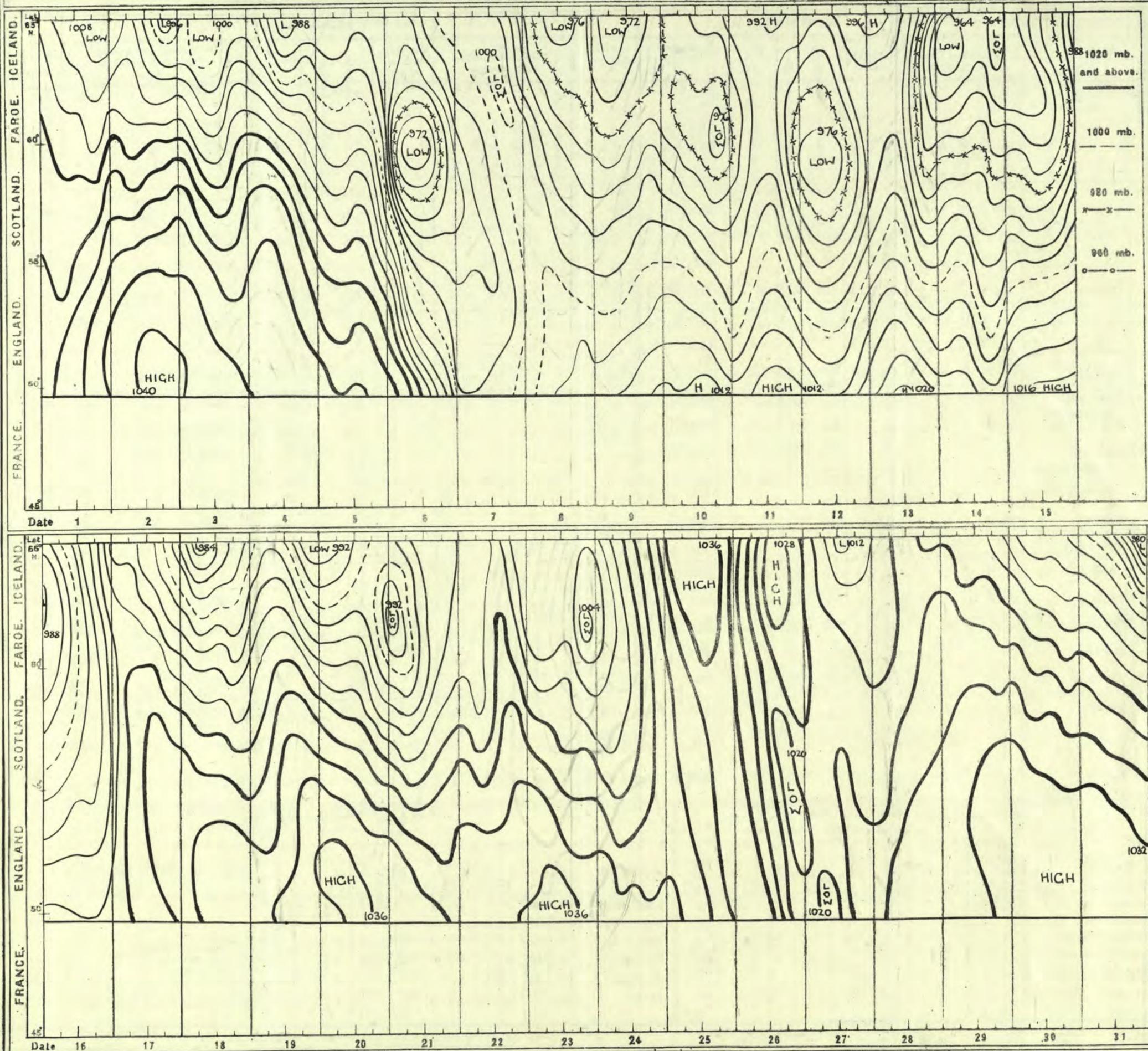
** The extremes of rainfall and sunshine from Calshot are supplemented by those from Southampton.

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

PRESSURE: ICELAND TO GULF OF LIONS

December 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 Marseille. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at 1h., 7h., 13h., and 18h. are plotted consecutively and joined to show the variation of pressure from day to day at any point in the line. The line terminates at Lat. 66° N., Long. 18° W., in the north; at Lat. 44½° N., Long. 4° E., in the south.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION
Monday 1st December, 1941.
No 20, 222

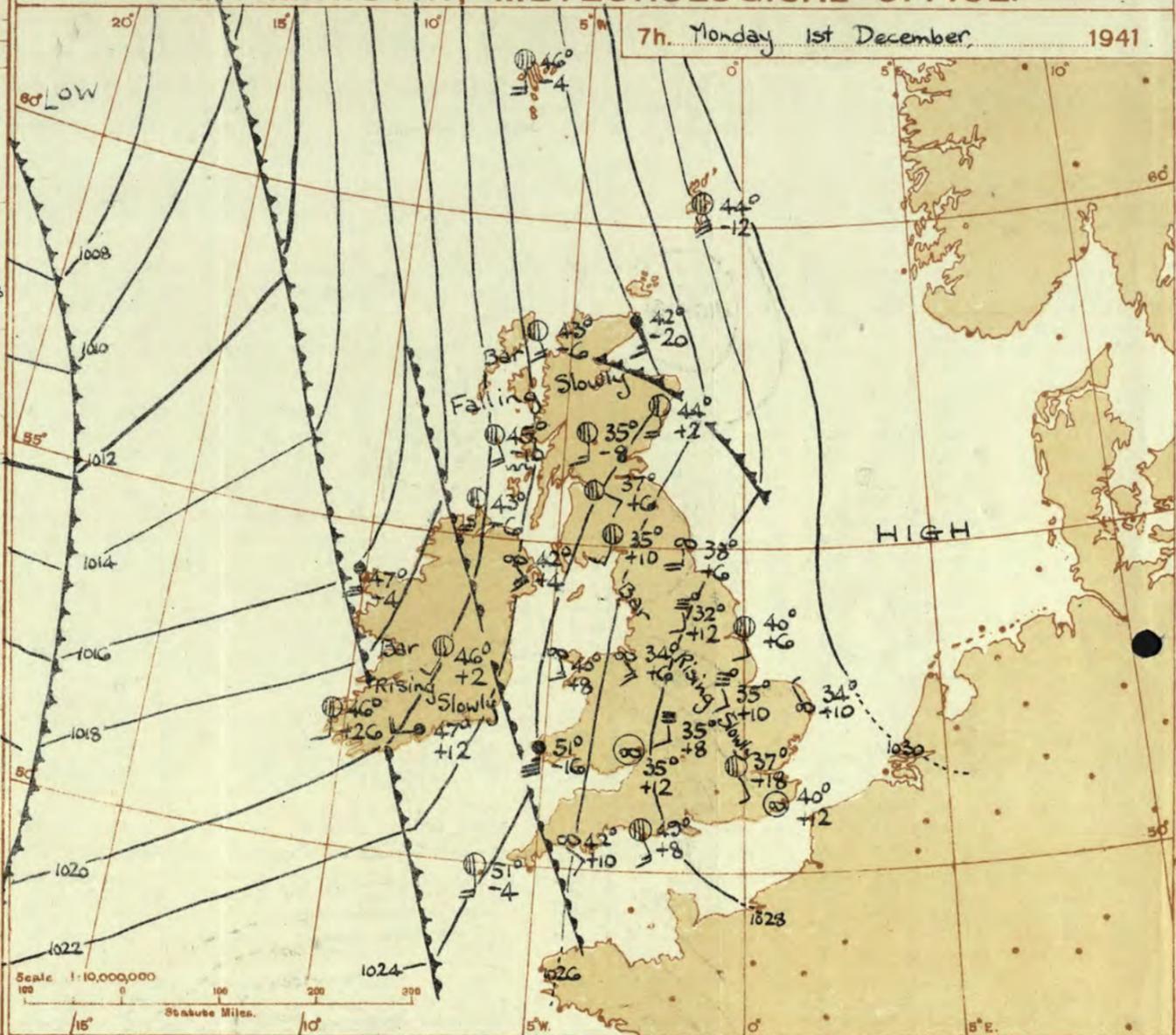
OBSERVATIONS at 13h. G.M.T. 30th November														OBSERVATIONS at 18h. G.M.T. 30th November														PAST 24 HOURS.					
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.			State of Ground. 0-9 (30)	WEATHER.										
				Dirce. (3)	Force. 0-12 (4)				Weather. (5)	Form. Low. (9)	Amount. Med. (10)			Height of Base. (feet) (11)	Dirce. (17)				Force 0-12 (18)	Weather. (19)	Form. Low. (23)		Amount. Med. (24)	Height of Base. (feet) (25)	Sea. 0-9 (31)	7h.-18h. 30th (37)	13h.-18h. 30th (38)	18h. 30th 1st. (39)	1h.-7h. 1st. (40)				
																														High (12)	Total 0-10 (13)	High (26)	Total 0-10 (27)
1	London (Kew)...	1024.0	-10	NHE	2	30	75	5	5	10	10	2500	1024.8	+6	NE	1	m	40	75	4	5	10	10	2500	1	2	cm	cm	cm	cm			
	Croydon ...	1024.4	-6	HE	2	30	75	4	5	10	10	2000	1024.7	+2	0	ft	37	85	3	5	1	1	2000	1	2	cm	cm	cm	cm				
	S. Farnborough	1024.1	-10	NE	3	30	85	5	5	9	9	3000	1024.9	+10	E	1	oft	38	85	3	5	10	10	2700	1	2	cm	cm	cm	cm			
	Boscombe Down	1024.6	-6	NE	2	30	85	6	5	10	10	2000	1024.5	+2	0	z	37	85	5	5	10	10	2300	1	2	cm	cm	cm	cm				
	Thorney Island	1023.6	-8	EHE	3	42	75	6	1	7	7	2500	1024.3	+6	E	2	z	40	75	5	5	9	9	3500	1	2	cm	cm	cm	cm			
	Lympe	1024.2	-6	HE	1	30	65	7	5	10	10	3000	1023.2	+6	0	z	37	75	6	5	9	9	4000	1	2	cm	cm	cm	cm				
	Manston	1024.2	-6	0	0	41	65	6	5	7	7	2000	1025.1	+10	0	m	38	85	4	5	9	9	3500	1	2	cm	cm	cm	cm				
2	Shoeburyness ...	1024.2	-6	ESE	1	42	65	3	5	4	4	7-8	1025.2	+10	0	bc	37	85	7	3	0	0	4-6	1	2	cm	cm	cm	cm				
	Felixstowe ...	1024.1	-10	NHE	2	40	85	7	5	10	10	2000	1024.6	+6	SSE	3	z	41	65	6	5	9	9	4500	1	2	cm	cm	cm	cm			
	Gorleston ...	1025.0	-14	E'S	3	41	75	6	5	10	10	1200	1025.3	+4	SE'S	4	z	41	65	6	5	10	10	1500	0	4	cm	cm	cm	cm			
	Mildenhall ...	1025.1	-14	HE	2	38	75	6	5	10	10	2000	1024.7	+2	0	z	37	65	6	5	10	10	4400	0	4	cm	cm	cm	cm				
	Cranwell ...	1025.5	-14	E	2	38	85	6	5	9	9	2200	1024.6	-6	NHE	2	z/r	38	85	5	5	10	10	2000	1	2	cm	cm	cm	cm			
3	Birmingham	1024.4	-12	HE	3	40	75	4	5	10	10	1800	1024.5	0	SSE	2	m	35	75	4	5	9	9	1500	1	2	cm	cm	cm	cm			
	Upper Heyford	1025.0	-10	EHE	4	36	75	6	5	10	10	2500	1024.9	+4	EHE	1	z	36	85	5	5	10	10	2500	1	2	cm	cm	cm	cm			
4	Ross-on-Wye	1024.6	-6	HE/E	3	38	75	6	5	10	10	2500	1024.0	-4	SE/E	2	z	37	75	6	5	10	10	1500	1	2	cm	cm	cm	cm			
5	Hartland Point	1023.2	-4	EHE	3	44	85	6	5	2	2	7-8	1023.2	-4	EHE	3	z	40	75	6	5	2	2	7-8	10	2500	1	3	bc	bc	bc	bc	
	Bristol ...	1024.8	-6	EHE	3	37	75	6	5	10	10	1800	1024.9	+4	EN	3	z	36	75	5	5	7	7	2000	1	3	bc	bc	bc	bc			
	Portland Bill ...	1022.8	-6	EHE	4	43	92	7	4	10	10	1600	1023.4	+6	EHE	4	0	41	92	7	5	10	10	2500	1	4	bc	bc	bc	bc			
	Plymouth ...	1022.3	-6	ESE	3	46	92	6	5	9	9	1500	1023.5	+8	ESE	2	z	43	85	5	5	10	10	1500	0	4	bc	bc	bc	bc			
	The Lizard ...	1022.3	+2	E	4	49	85	8	2	7-8	7-8	1000	1022.3	+4	E'S	2	z	48	85	7	8	2	2	7-8	10	1500	1	3	bc	bc	bc	bc	
	Scilly (St. Mary's)	1021.9	-4	ESE	3	52	92	6	8	9	9	4-6	1021.9	+4	SE'S	2	z	49	92	6	8	3	3	7-8	10	1200	1	3	bc	bc	bc	bc	
	Guernsey ...	1021.9	-4	ESE	3	52	92	6	8	9	9	4-6	1021.9	+4	SE'S	2	z	49	92	6	8	3	3	7-8	10	1200	1	3	bc	bc	bc	bc	
6	Pembroke ...	1024.1	-4	E	4	45	85	5	5	1	1	7-8	1023.9	0	EHE	4	z	40	85	6	5	0	0	2500	1	2	cm	cm	cm	cm			
7	Holyhead (Valley)	1024.5	-10	EHE	4	43	75	6	5	10	10	2500	1023.9	0	EHE	2	z	39	85	5	5	9	9	3100	1	2	cm	cm	cm	cm			
	Chester (Sealand)	1025.6	-14	SSE	1	41	75	5	5	9	9	3000	1024.7	-4	E	2	m	41	75	4	5	10	10	2000	1	2	cm	cm	cm	cm			
8	Manchester ...	1025.7	-16	NE	1	41	85	5	5	9	9	2500	1024.9	-2	0	z	38	85	6	5	10	10	2500	1	2	cm	cm	cm	cm				
10	Spurn Head ...	1026.3	-12	SE/E	4	42	75	7	7	7-8	7-8	1500	1024.5	-6	ESE	3	z	43	85	6	4	9	9	1500	1	2	bc	bc	bc	bc			
	Catterick ...	1027.6	-18	EHE	2	43	85	6	8	2-3	2-3	9	2500	1026.6	-6	EHE	1	z	37	92	5	8	3	3	7-8	9	2800	1	2	bc	bc	bc	bc
	Tynemouth ...	1023.7	-10	ESE	4	44	75	7	8	9	9	2400	1026.8	-4	E	3	z	44	75	7	8	7-8	7-8	2400	1	3	bc	bc	bc	bc			
11	St. Abbs Head	1028.6	-8	ESE	3	43	75	7	5	2	2	7-8	1027.4	-6	ESE	3	z	44	85	7	5	4	4	7-8	9	1500	0	2	bc	bc	bc	bc	
	Leuchars ...	1029.0	-10	SE	3	45	85	6	5	9	9	1800	1027.7	-12	EHE	2	z	40	92	5	5	7-8	7-8	2200	1	2	bc	bc	bc	bc			
12	Reafrow (Abbots L.)	1027.7	-10	HE	2	44	75	4	5	10	10	3500	1026.8	-4	EHE	2	m	41	75	4	5	3	3	4-6	9	3500	1	2	bc	bc	bc	bc	
	Eskdalemuir ...	1027.7	-6	EHE	3	41	85	6	5	9	9	1800	1026.4	-8	NHE	2	bc	37	85	6	5	4-6	4-6	1500	1	2	bc	bc	bc	bc			
	Point of Ayre ...	1026.4	-6	SSE	4	45	85	8	5	9	9	2500	1024.8	-6	SE'S	4	z	44	75	7	5	2-3	2-3	3000	0	4	bc	bc	bc	bc			
13A	Three ...	1027.5	-4	ESE	3	45	85	7	5	9	9	2500	1024.2	-4	SE	4	z	46	85	7	5	9	9	1800	5	2	bc	bc	bc	bc			
13B	Stornoway ...	1027.2	-24	SSE	4	46	75	8	5	7	7	7-8	1025.2	-6	NHE	4	z	46	75	7	5	7	7	7-8	10	1500	1	2	bc	bc	bc	bc	
15	Dalwhinnie ...	1029.4	-4	SSE	3	40	75	6	5	10	10	2500	1028.4	-6	S	3	z	38	75	6	5	1	1	7-8	10	1500	0	2	bc	bc	bc	bc	
	Aberdeen ...	1030.3	-6	SE'S	3	45	75	6	6	2	2	9	1100	1028.5	-16	ESE	2	z	45	85	6	6	7	7	4-6	9	100	1	2	bc	bc	bc	bc
	Wick ...	1030.0	-10	SE	3	45	75	7	5	10	10	2500	1028.4	-6	SE	5	z	45	75	7	5	2-3	2-3	1800	1	2	bc	bc	bc	bc			
16	Sumburgh ...	1030.3	-12	SE	3	44	85	6	5	9	9	2000	1032.0	-6	SE	3	z	43	75	6	5	10	10	1500	1	4	bc	bc	bc	bc			
17	Blacksod Point..	1022.1	-12	SE	4	47	92	8	7	0	0	10	1020.0	-6	SE	4	z	47	92	7	7	0	0	10	0	0	1	2	bc	bc	bc	bc	
18	Malin Head ...	1024.6	-10	SSE	3	47	85	6	6	7-8	7-8	1500	1023.3	-2	SE	3	z	44	85	7	6	9	9	1500	0	3	bc	bc	bc	bc			
	Aldergrove ...	1025.9	-10	SE/E	3	45	85	5	5	10	10	3000	1025.2	0	SE	1	z	40	85	6	5	7	7	7-8	9	1000	1	2	bc	bc	bc	bc	
19	Birr Castle ...	1023.1	-10	SE	1	48	85	8	5	7-8	7-8	4000	1021.9	-4	SE	1	z	41	92	8	8	0	0	0	0	0	1	2	bc	bc	bc	bc	
	Valentia Obay. †	1020.9	-14	ESE	3	52	85	8	8	7-8	7-8	1500	1020.0																				

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 10h. Nov. 18h. G.M.T.				01h. G.M.T. 1st Dec. 07h. G.M.T.					
III	C _M	wwVhN _r	DDFWN	C _M	wwVhN _r	DDFWN	C _M	wwVhN _r	DDFWN
109	5-	05648	12428	51	05543	13428	5-	02656	46426
115	51	02734	12226	51	02734	14327	5d	01844	12325
203	5-	02845	12316				50	02854	12425
206	5-	02758	10328	50	02651	00026	05	05600	10105
210	51	05656	08327	51	05653	10428	03	05600	00213
220	52	02754	15318				52	03436	16428
230	53	05745	06227	53	05663	00027	53	02773	00017
240	5-	05657	11327	57	05656	10227	52	61646	00468
260	5-	41445	04147	5-	08476	00026	5-	22458	00068
278	5-	02758	00358	57	05661	10327	5-	08668	12328
279	5-	05564	05326	04	05500	04224	5-	61467	00067
285							04	05500	17102
288				53	08453	00015	5-	05667	16147
576	53	05654	102-7	5-	05658	01228	5-	05658	08128
801	53	05656	10327	5-	08456	08126	5-	41468	14248
321	5-	05657	00327	5-	21658	07158	53	08454	23327
299	50	05645	08315	5-	22747	08467	50	01753	22313
292	57	05655	06325	57	61657	01168	53	08463	16165
310								01835	20215
614	5-	05658	08228	5-	05555	02128	5-	08468	16158
338	5-	02758	06328	5-	02754	04328	5-	05658	10328
334								02544	00016
340	5-	05648	02128	03	05500	10311	5-	08448	14218
136	5-	05658	08128	5-	05668	12158	00	04490	14112
336							03	41490	08244
350	57	05655	04228	03	08490	00027	5-	08458	13218
368	5-	02658	07358				5-	05558	15128
379	5-	05657	08227						
390	5-	05557	06227	53	47363	04127	03	47000	12145
382	5-	05658	06227	5-	05658	00028	5-	05567	08127
458								03558	05428
430	5-	05668	04318	5-	05568	06228	50	05665	04225
409	5-	05500	08227	--	61646	12328	5-	05656	10526
							03	05690	47527

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C_M - 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. 1st December, 1941.
1 S.E. England	Light S.E. or variable wind; fair with variable cloud; cold frost and fog in places at night.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Moderate S. wind, fresh on coasts; cloudy, rain at times; average temperature.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	As 1-4.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	As 5-8.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Moderate S. wind variable cloud, rather cold, fog locally inland at night.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	Moderate S. wind veering W. Cloudy with rain at first, bright intervals and showers later. Average temperature.
18 N. E. Ireland	As 5-8.
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
 = Cold Front on the surface
 = Cold Front above the ground
 = Warm 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 to eastwards of the British Isles is spreading westwards. A complex trough of low pressure over Ireland is moving slowly east but will soon become stationary. Weather will continue dry and cold in the east with fog and frost in places at night. In the west it will be mainly cloudy with rain at times and temperature about the seasonal average.

FURTHER OUTLOOK.
Quiet dry and cold weather in South and East, with fog in places. Occasional rain in the Northwest.

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.)

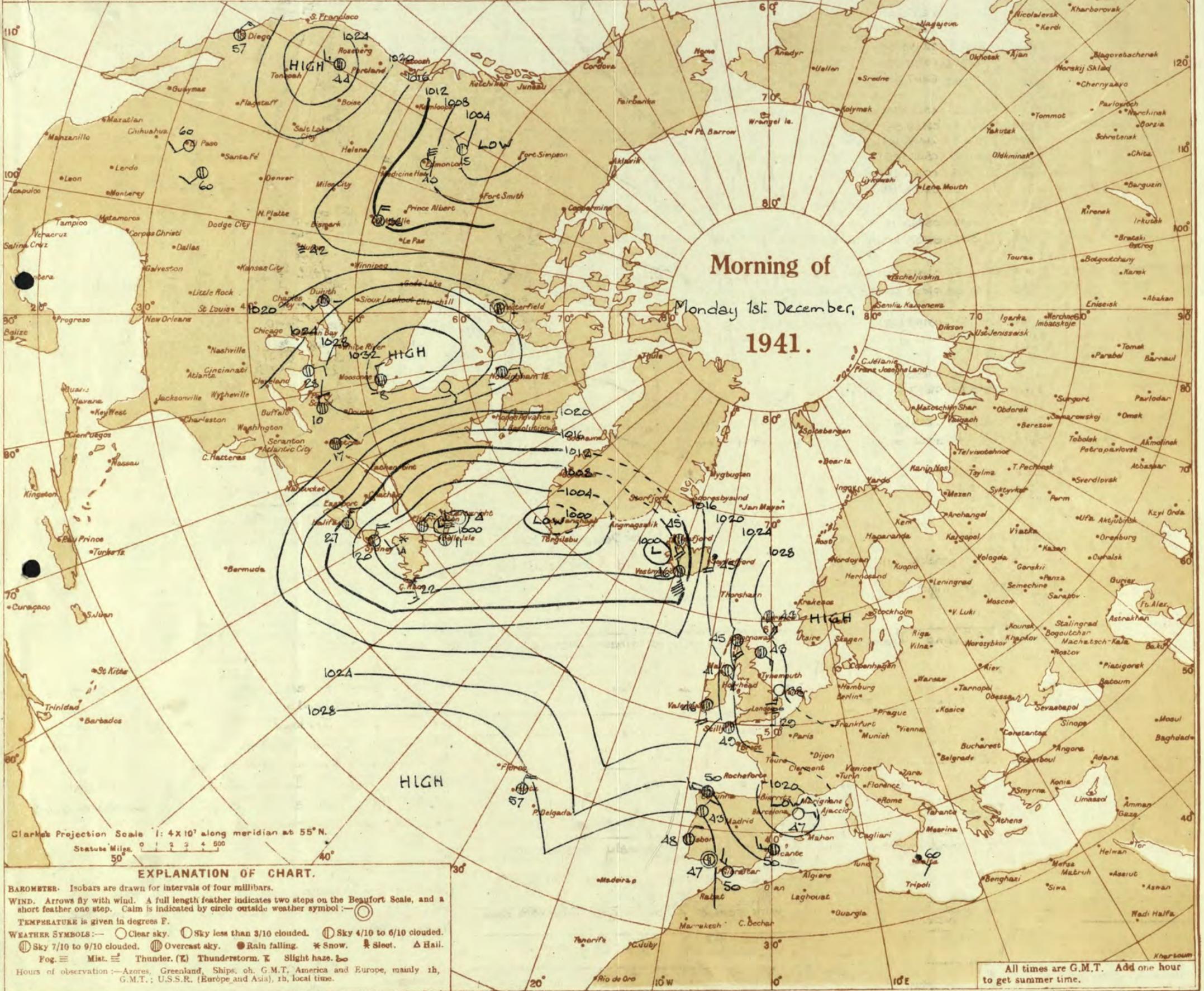
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

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

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

PAST 24 HOURS.

Main table with columns for District, Stations, Barom., Wind, Temp., Humid., Cloud, and various weather metrics for 20 stations.

LONDON OBSERVATIONS table with columns for Station, Barom., Wind, Temp., Humid., Rainfall, and Sun-shine.

FOREIGN OBSERVATIONS table with columns for Station, Barom., Wind, Temp., Humid., Rainfall, and Sun-shine.

Atmospheric Pollution table with columns for Milligrams of Solid Impurity per cubic metre.

EXPLANATION OF FIGURES, LETTERS, et. table with columns for COLUMNS 2, 4, 8, 22, 30, 34, 35 and their corresponding weather codes.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

Tuesday 2nd December 1941.
No. 29230

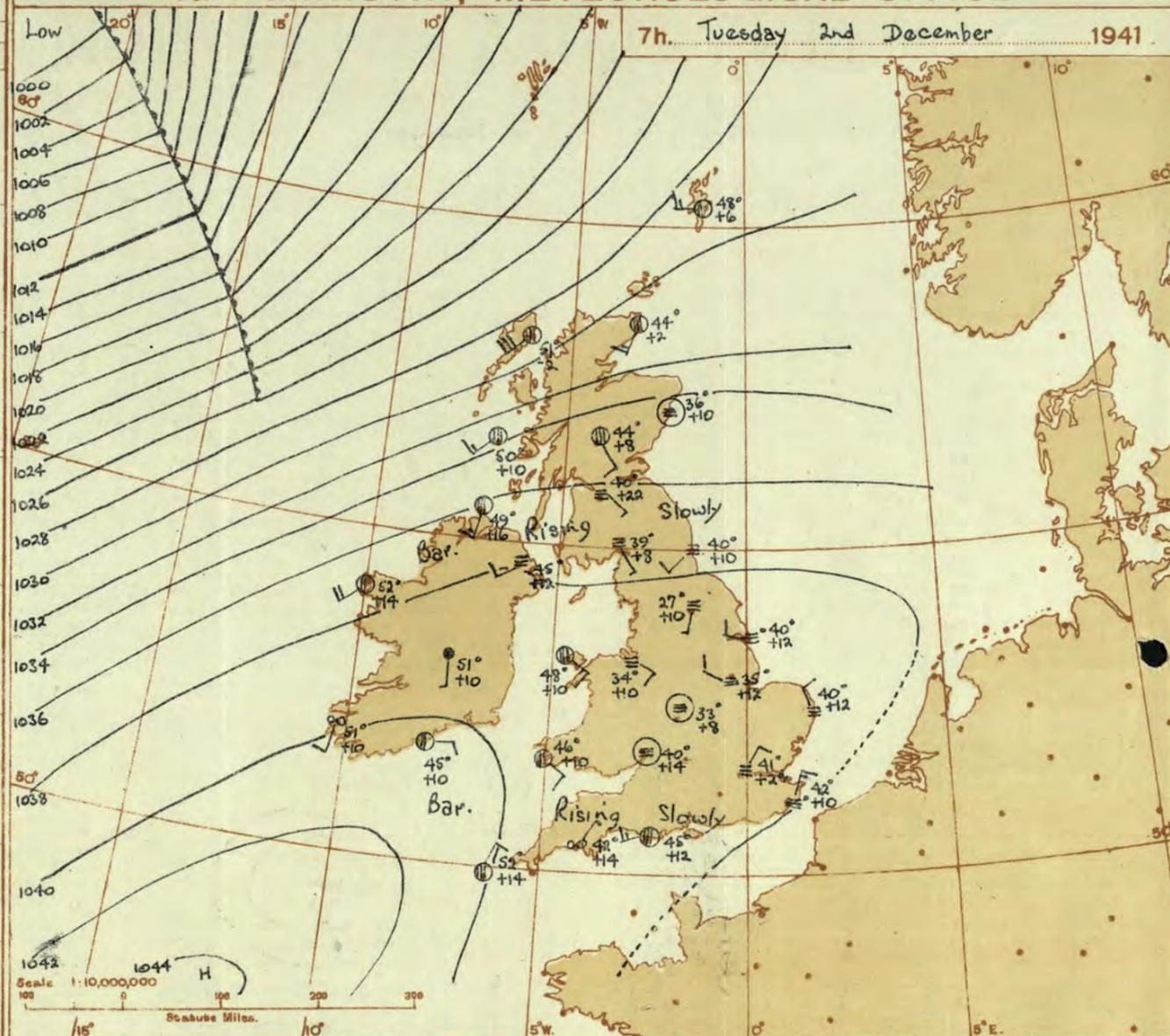
OBSERVATIONS at 13h. G.M.T. 1st December														OBSERVATIONS at 18h. G.M.T. 1st December														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	°C. (7)	Humid. % (8)	Visibility. 0-9 (9)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	°C. (21)	Humid. % (22)	Visibility. 0-9 (23)	Cloud.			Barom. at M.S.L. mb. (29)	State of Ground. 0-9 (30)	WEATHER.								
				Direc. (3)	Force. 0-12 (4)						Form. (10)	Amount. (11)	Height of Base. (feet) (14)			Direc. (17)	Force. 0-12 (18)						Form. (24)	Amount. (25)	Height of Base. (feet) (28)			7h.-12h. 1st... (37)	12h.-18h. 1st... (38)	18h.-1st 1h... 2nd (39)	1h.-7h. 2nd... (40)					
																																Low.	Med.	High	Low	Med.
1	London (Kew)...	1031.8	+10		0	f	43	75	2	-	-	10	10	2150	1033.0	+14	ESE	2	rf	44	92	2	5	-	-	10	10	1500	1	*	cmfoc.	ororf	Ccfcfg	cmo		
	Croydon ...	1030.6	+2	SE	2	cf	44	92	5	3	-	9	10	800	1032.2	+6	E	0	rf	43	97	1	5	-	-	10	10	700	1	*	cf,m	rf,rr	fcfcfc	cfcf		
	S. Farnborough	1031.5	+2	ESE	1	rf	42	85	5	-	-	10	10	3500	1032.7	+10	E	1	rf	42	97	3	-	-	-	10	10	1500	1	*	cm,m,r	mf,rr,rf	fcfcfc	OFFcf		
	Boscombe Down	1030.6	+8	SE	3	z	45	92	5	5	-	9	9	2000	1032.8	+10	ESE	3	rf	44	97	3	5	-	-	10	10	300	1	*	bcm,cm	om,rf	rf	OFF		
	Thorney Island	1030.9	+8	E	2	dd	45	92	5	-	2	-	10	10	800	1031.8	+6	E	2	rf	45	97	3	-	2	-	10	10	700	1	*	cm,of,dd	rr,om,rf	fffcfc	om,bf,cm	
	Lympne ...	1030.8	+4	NE	1	z	47	85	5	5	-	6	2-3	9	1200	1032.2	+4	NE	1	cf	42	97	3	-	5	-	0	9	-	2	*	cm	cm	cf,m,ff	cb,cm,w	
	Manston ...	1031.2	+2		0	z	47	85	5	3	2	7-8	9	1400	1032.9	+8		0	cf	41	97	3	5	3	6	1	9	2000	1	*	cm,m	cm,rf	cf,m,rf	cb,cm,w		
2	Shoeburyness ...	1031.4	+4		0	c	46	85	6	5	-	10	10	1800	1032.9	+6		0	d,d	43	92	4	5	-	-	10	10	800	1	*	cm	d,d	d,d,cb,cm	bm,bf		
	Felixstowe ...	1031.9	+12		0	z	45	85	5	3	-	0	10	-	1033.3	+8	NE	2	z	43	92	5	7	-	-	9	9	3500	1	1	bcm,cm	cm	cm,cm	cm,cm		
	Gorleston ...	1032.5	+16	NW	1	z	43	85	5	5	-	10	10	800	1033.4	+2	NW	1	z	44	85	6	5	3	-	-	4	9	800	0	2	off,cm	off,cm	OFFe	OFFe	
	Mildenhall ...	1031.6	+2	SE	2	z	41	85	6	5	-	10	10	2000	1033.4	+0	S	2	rf	41	97	2	-	2	-	10	10	1500	1	*	cm	om,rf	OFFe,cf	OFFe		
	Cranwell ...	1031.1	+10	SW	3	z	42	85	6	5	-	9	9	6000	1033.2	+14	S	2	cf	35	97	2	5	4	1	7-8	9	4000	1	*	cm	b,cmf	bf,cm	bf,cm		
3	Birmingham	1030.4	+10	S	2	c	44	85	6	5	3	-	2-3	9	5700	1032.8	+14	SSE	2	c	41	85	4	-	7	-	0	7-8	-	1	*	cf,cc	c	cm,bf	bc,ff	
	Upper Heyford	1030.7	+6	SE	3	z	44	85	5	-	3	9	0	1	-	1032.4	+4	SE	2	m	42	92	4	5	-	-	9	9	3200	1	*	cm,z	bc,cm	cf,bf	OFFe	
	Ross-on-Wye ...	1029.2	+4	SSE	2	z	45	85	6	5	-	1	9	9	2500	1031.1	+12	W	1	m	44	92	4	5	-	-	9	9	3500	1	*	b,z,cc	cz	cm,bf	ff	
5	Hartland Point	1027.0	+10	SW	3	ir	48	85	8	6	2	-	4-6	9	1800	1030.3	+16	NW	4	c/pr	50	85	8	8	6	-	4-6	7-8	1300	1	4	cr	ir,pr	bc	c	
	Bristol ...	1029.8	+10	SSE	2	z	46	92	5	5	3	-	7-8	9	2000	1031.3	+8	SSE	1	df	45	92	3	5	-	-	10	10	2000	1	4	bb,cm	cm,m,df	cf,df	cf,ff	
	Portland Bill ...	1029.0	+6	S	2	c	51	92	7	5	-	10	10	2500	1030.1	+6	W	3	rr	48	92	7	5	-	-	10	10	2500	1	4	c	orr	orr	bc		
	Plymouth ...	1029.3	+10	SW	3	tr	47	92	5	5	-	10	10	2000	1031.3	+18	W	2	rf	48	92	4	8	6	-	-	9	9	2000	1	2	ir,bl	rr,rr,m	cprbc	b	
	The Lizard ...	1028.5	+14	WS	4	bc	49	85	8	8	6	-	4-6	4-6	2500	1032.5	+18	NW	5	bc	50	75	8	8	4	-	4-6	4-6	2500	1	4	rr,bc	c	bc	c	
	Soilly (St. Mary's)	1028.7	+22	NW	5	bc	53	75	8	8	-	2-3	2-3	1200	1033.6	+30	NW	4	c	50	85	8	8	3	-	-	4-6	9	1500	1	4	ir,pr	bc	c	cid,c	
	Guernsey ...	1028.7	+22	NW	5	bc	53	75	8	8	-	2-3	2-3	1200	1033.6	+30	NW	4	c	50	85	8	8	3	-	-	4-6	9	1500	1	4	ir,pr	bc	c	cid,c	
6	Pembroke ...	1025.4	0	SW	5	c/pr	50	85	8	8	3	-	4-6	9	2000	1031.6	+50	NW	4	rr	49	85	7	8	6	-	7-8	9	2500	1	3	ir,pr	ir,pr	bc	c	
	Holyhead (Valley)	1026.5	+14	S	5	ir	47	92	6	5	2	-	9	10	1500	1030.1	+32	S	5	ir	49	85	6	5	2	-	9	10	1600	1	4	ir,pr	ir,pr	bc	c	
	Chester (Sealand)	1028.9	+8	SE	5	z	41	85	5	5	2	-	4-6	9	6000	1031.6	+18	SE	2	ir	41	85	3	-	7	-	0	7-8	-	1	*	bcm,cm	bc,cm	bc,cf,w	bc,cf,w	
	Manchester ...	1030.1	+10	SSE	3	z	42	85	4	-	3	-	9	9	8000	1032.5	+18		0	m	42	92	4	5	-	-	8	2-3	9	5700	1	*	cm	cm	cm,cf	bc,cf,w
10	Spurn Head ...	1031.2	+4	SSW	3	c	42	85	6	5	-	9	9	1500	1032.5	+4	SSW	3	z	41	92	6	5	3	6	4-6	4-6	2500	0	4	cm	c	b	bc		
	Catterick ...	1030.5	+6	SW	2	cf	37	92	3	5	3	-	2-3	9	1900	1032.8	+16	SSW	1	bf	35	97	2	-	-	-	0	0	-	0	*	pf,cf	cf,bf	bc,ff	OFFe	
	Tynemouth ...	1029.6	+6	SW	2	z	37	75	5	5	-	7-8	7-8	800	1031.5	+8	SW	3	m	38	85	4	5	-	-	7-8	7-8	1500	1	3	cm	cm	bc,ff	bc,ff		
11	St. Abbs Head	1028.6	+6	SSW	2	z	35	92	5	5	1	5	2-3	4-6	2000	1030.5	+16	SW	4	z	35	85	5	4	4	-	2-3	4-6	2500	0	3	cb,cm	cb,cm	cm,bc	cm,bc	
	Leuchars ...	1028.6	+10	SSE	1	z	42	85	5	3	-	0	Tr	-	1029.9	+12		0	z	39	85	5	5	-	-	10	10	2400	1	*	bm	bc,cm	id,cm,bc	cm,bc,ff		
	Retnew (Abbots L.)	1027.5	+8	ESE	3	rf	40	85	3	5	-	10	10	2500	1029.6	+8	NE	2	df	40	85	3	5	-	-	10	10	1200	1	*	m,ff	of,rf,df	id,bof	cf,df		
	Eskdalemuir ...	1028.8	+10	SW	1	c	33	85	6	5	7	-	7-8	9	1500	1031.3	+10		0	o	36	85	5	5	-	-	10	10	800	1	*	or,cf,cm	cm	om	om,ff	
	Point of Ayre ...	1027.2	+6	SSE	5	z	43	85	6	5	4	-	7-8	9	2000	1030.0	+24	SSW	2	c/r	47	97	7	8	-	-	9	9	2000	1	3	bc,cc	bc,cc	bc,cc	bc,cc	
13A	Tiree ...	1022.8	+10	SSE	5	o	45	92	6	5	-	10	10	1200	1026.0	+20	SW	2	b	46	92	8	5	-	-	1	1	2800	1	4	ovrd	cb,cb	bc,cc	cid		
	Stornoway ...	1021.9	-2	S	6	c	45	75	7	5	7	-	7-8	10	1500	1023.7	+16	S	6	c/pr	46	92	7	8	7	-	7-8	9	1500	1	4	c	ep	cb,cc	c	
	Dalwhinnie ...	1028.0	+8	S	3	c	37	85	6	8	-	9	9	1500	1030.5	+16	S	2	pr	36	85	6	5	2	-	9	10	1500	1	*	c	ep	cb,cc	bc,ff		
	Aberdeen ...	1028.1	+8	SSW	2	c	40	85	5	5	-	7-8	7-8	1900	1029.6	+6	ESE	2	bc	40	85	5	5	7	-	2-3	4-6	1900	1	2	bc,cc	bc,cc	bc,cc	bc,ff		
	Wick ...	1025.9	+16	SW	3	b	44	85	8	1	-	1	1	2000	1026.6	+6	SSE	1	c	43	85	6	5	-	-	9	9	4000	1	*	cpr,bb	b,cm,ol	bc,cm	cm		
	Sumburgh ...	1026.9	+2	S	5	pr	46	85	8	8	-	9	9	1500	1027.4	+6	SSW	3	c	45	75	7	8	-	-	9	9	2500	1	4	cid,r,c					

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 1st December				01h. G.M.T. 2nd December				07h. G.M.T. 2nd December				
II.C.	C _m	wwVhN _h	DDFWN	C _m	wwVhN _h	DDFWN	C _m	wwVhN _h	DDFWN	C _m	wwVhN _h	DDFWN
109	20	00652	16462	57	05653	15404	57	01652	18314	5-	01754	18314
115	54	02744	16386	52	81744	16387	53	02844	24487	52	81834	18487
203				5-	02838	16568				5-	02838	20528
206	04	01790	00014	5-	05658	18328	03	05650	00023	5-	01654	00024
210	50	00761	10201	07	05650	14228	00	01790	17203	57	02864	16227
220	80	25637	19587	83	01744	0385				52	03435	20428
230	52	05654	08268	52	61647	08258	53	02762	00067	27	02753	18227
245	5-	05667	20327	5-	08457	17128	00	08450	23240	53	08463	25116
260	53	47364	04116	5-	43567	06147	5-	05538	24128	5-	05645	20115
278	5-	61648	11468	53	02844	19366	53	02766	14317	8-	05557	16227
279	5-	05568	08118	5-	05558	04228	50	08464	18314	5-	43346	28146
285	5-	05647	04327	53	05643	02214				50	01853	32303
288	5-	08457	18217	00	47390	21140	--	48109	20149	--	46109	20249
325	80	05854	18264	40	01853	20283	5-	05655	15265	5-	05758	12128
301	5-	21458	13358	07	47390	13443	50	45264	00044	04	45290	00042
321	5-	05590	16320	07	08450	14214	00	47390	00040	--	48109	00049
299	50	05647	20327	50	05545	18325	00	05650	24300	00	08450	24200
292	5-	08467	12127	00	45290	13144	00	45090	00040	--	44009	00049
310	5-	08434	20214	--	46209	20249	--	46109	26349	--	46109	26349
314	5-	08475	14125	07	47390	10114	00	47190	25140	--	48009	00049
338	52	62646	12468	52	02654	16168	00	00790	00010	5-	05656	00016
334	--	05546	32117	--	02654	32215	--	34309	00028	--	34309	00028
340				--	46209	12349	03	45890	12241	--	46009	16149
136	58	05665	12216	51	22473	10167	00	47290	30140	00	47190	00040
336	52	05643	12428				--	46109	08349			
350	5-	08464	14215	5-	47158	00048	--	48009	00049	--	44009	23149
308	52	61558	08367	57	47344	04165	00	47190	24140	--	46109	03249
379	03	05690	12304	5-	05657	08227	5-	41451	00041	00	47190	00040
390	5-	43368	12748	5-	67128	00068	5-	45208	02268	--	46109	26249
382	57	05665	11316	5-	08448	09128	--	46109	00049	6-	43318	00048
438	5-	02757	10317							5-	02747	04317
430	5-	08448	07358	5-	62448	04268				51	41436	32148
400	27	81864	19465	5-	64747	28387	54	00851	30313	04	00790	30113

II - 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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_m - 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 2nd December 1941
1 S.E. England	Light variable winds; extensive fog persisting in many places; rather cold.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light variable winds; mainly fair but some local inland fog; average temperature or rather mild.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Light westerly wind, mainly fair but fog in places; average temperature.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Moderate southwest wind; fair, rather mild.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	As 15-16.
14 Mid Scotland	As 11-13A.
15 N. E. Scotland	Strong southwest wind, gale on coasts later; cloudy, some rain or drizzle; mild.
16 Orkneys and Shetlands	
17 N. W. Ireland	As 11-13A.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	As 5-7.

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 ridge of high pressure lying across the Southern half of Britain is intensifying. A deep depression is approaching Iceland from southwest. Quiet foggy weather will persist over most of England but winds will freshen from southwest in the North and will reach gale force on the coast of North and West Scotland. Mild rainy weather will occur in the North.

FURTHER OUTLOOK.

Similar.
Warning of southwest gale issued at 0815h 2.12.41 in districts 13B and 16.

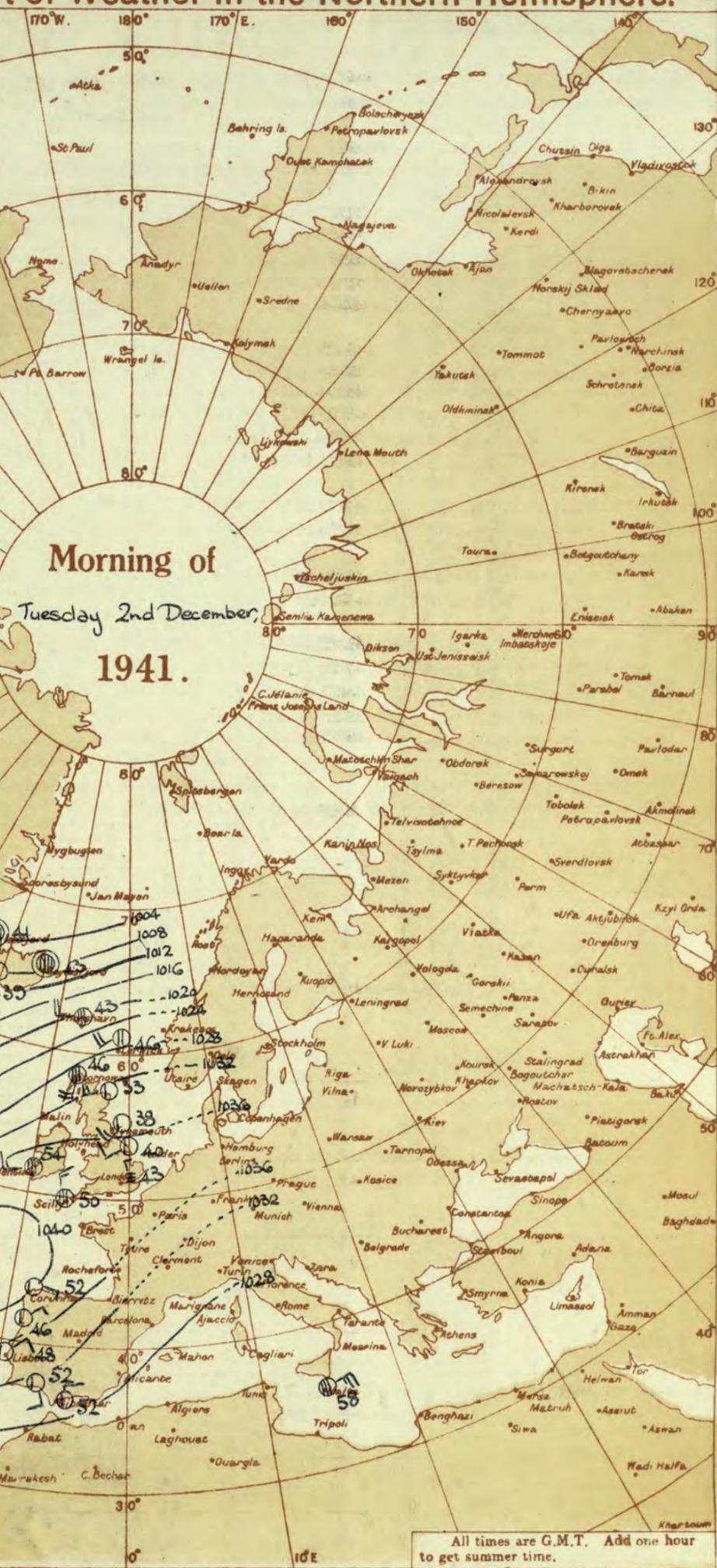
Forecasts issued at 10.30h.
H.M.S.O. Press, Meteorological Office, Dunstable.

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

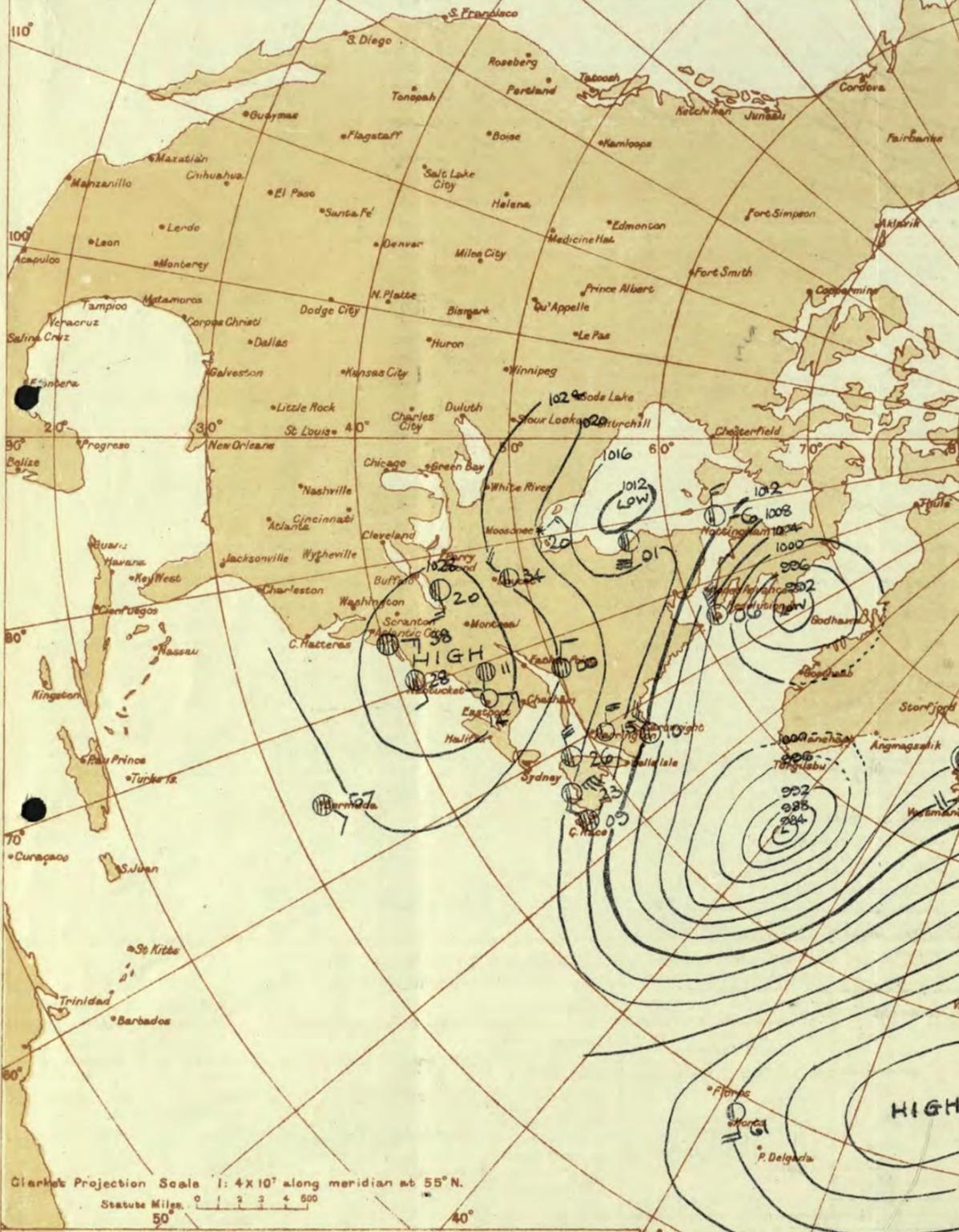
AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

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.



Morning of
 Tuesday 2nd December,
 1941.



Clark's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500
 50°

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol: ○
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: ○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◒ Sky 7/10 to 9/10 clouded. ◓ Overcast sky. ● Rain falling. * Snow. † Sleet. △ Hail. Fog. ☁ Mist. ⚡ Thunder. ⚡☁ Thunderstorm. ☁ Slight haze. ☁
 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.

OBSERVATIONS at 1 hr. G.M.T. 2nd December														OBSERVATIONS at 7 hr. G.M.T. 2nd December														PAST 24 HOURS.										
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. M.S.L. mb.	Change in 3 hours.	Wind.		Temp. °F.	Humid. %	Visibility.	Cloud.				Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Temp. °F.	Humid. %	Visibility.	Cloud.				TEMPERATURE.			RAINFALL.		SUNSHINE Hr.								
					Dir.	Force.				Form.	Amount.	Height of Base (feet).	Dir.			Force.	Form.				Amount.	Height of Base (feet).	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.	
1	London (Kew) ... 18	1035.7	+20	NNW	1	F	42	97	1	-	-	-	10	10	<150	1038.4	+24	NE	2	of F	41	97	3	5	-	-	10	10	2500	1	*	44	40	37	4	3	0.0	
	Croydon ... 217	1036.7	+18	NW	1	F	43	97	1	-	-	-	10	10	<150	1038.4	+24	NE	2	of F	41	97	3	5	-	-	10	10	300	1	*	44	41	39	3	3	0.0	
	S. Farnborough ... 226	1036.7	+18	NW	1	F	43	97	1	-	-	-	10	10	<150	1038.5	+18	NW	3	of F	41	97	2	5	-	-	10	10	300	1	*	43	40	39	2	1	0.0	
	Boscombe Down ... 417	1036.3	+24	N	1	F	43	97	3	5	-	-	9	9	600	1039.5	+14	N	2	of F	40	97	1	-	-	-	10	10	<150	0	*	45	40	35	0.1	4	0.3	
	Thorney Island ... 10	1035.6	+20	N	2	m	44	97	4	5	-	-	10	10	2500	1038.9	+16	N	1	z	44	97	5	5	-	-	10	10	<150	1	*	46	41	34	3	2	*	
	Lympe ... 346	1034.5	+6	N	1	c	44	97	3	5	2	-	4.6	10	1500	1037.3	+10	NNE	3	m	42	97	4	5	-	-	4.6	4.6	800	1	3	48	40	34	-	-	1.4	
	Manston ... 154	1035.3	+10	N/E	2	z	46	85	6	5	-	-	10	10	300	1037.9	+10	N/E	2	z	44	97	5	5	-	-	9	9	1200	1	*	48	41	33	Tr	-	0.0	
2	Shoeburyness ... 11	1035.9	+12	-	0	bc	40	92	5	1	-	1	Tr	2.3	2500	1038.5	+12	N	1	bc	37	97	3	5	-	-	4.6	4.6	700	1	*	47	37	28	0.5	0.2	0.0	
	Felixstowe ... 15	1036.3	+16	N	3	m	41	92	4	5	-	-	10	10	2500	1038.5	+12	N/E	2	m	38	97	4	5	-	-	2.3	2.3	2500	1	1	45	38	33	-	-	0.0	
	Gorleston ... 5	1035.9	+8	NW	2	m	39	92	4	5	-	-	9	9	1500	1038.3	+12	NW	1	F	40	85	1	-	-	-	10	10	<150	0	2	45	39	33	-	-	*	
	Mildenhall ... 19	1037.2	+14	-	0	c	35	97	1	-	-	-	0	0	-	1039.7	+18	WSW	1	F	31	97	1	-	-	-	10	10	<150	1	*	42	30	30	-	-	0.6	0.0
	Cranwell ... 240	1037.0	+14	WSW	1	m	32	97	4	-	-	-	0	0	-	1039.4	+12	WNW	2	of F	35	92	2	-	-	-	0	Tr	-	3	45	29	25	-	Tr	1.4		
3	Birmingham ... 535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1039.8	+8	-	0	F	33	97	0	-	-	-	10	10	<150	1	*	44	33	23	-	Tr	1.9	
	Upper Heyford ... 408	1036.7	+18	E	1	f	39	97	2	-	-	-	0	0	-	1039.6	+10	NE	1	F	36	97	0	-	-	-	10	10	<150	1	*	45	34	31	-	-	*	
4	Ross-on-Wye ... 223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1039.7	+14	-	0	OF	40	97	1	5	-	-	10	10	<150	1	*	48	39	30	-	Tr	1.6	
5	Hartland Point ... 299	1036.7	+18	NNW	3	bc	49	85	8	1	-	-	2.3	2.3	2500	1038.9	+10	N	2	bc	48	85	8	4	-	-	2.3	2.3	2500	1	3	51	46	40	4	-	0.2	
	Bristol ... 209	1037.3	+22	N	3	f	44	97	3	-	-	-	10	10	<150	1040.4	+14	-	0	f	41	97	2	-	-	-	10	10	<150	1	*	47	40	41	Tr	Tr	1.3	
	Portland Bill ... 32	1035.3	+30	W	3	c	47	92	7	2	-	-	9	9	4000	1038.5	+12	WSW	3	c	45	92	7	5	-	-	7.8	7.8	2500	1	4	51	43	*	1	1	*	
	Plymouth ... 82	1037.1	+22	NW	1	b	48	92	7	5	-	-	1	1	4000	1040.1	+18	NE	1	z	42	97	6	5	-	-	1	1	3000	2	2	51	39	33	10	3	0.0	
	The Lizard ... 240	1037.4	+16	NNW	3	bc	48	92	7	4	-	-	4.6	4.6	2500	1039.7	+10	N	3	c	50	85	8	8	6	-	-	7.8	7.8	1500	0	3	52	44	*	6	-	3.1
	Scilly (St. Mary's) ... 163	1037.8	+14	NNW	3	c	50	92	8	5	-	-	10	10	1000	1040.0	+14	NNE	2	0	52	97	7	5	-	-	10	10	1200	1	3	53	48	*	5	0.1	1.7	
	Guernsey ... 175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
6	Pembroke ... 142	1037.5	+14	NNW	3	bc	47	85	8	7	-	-	4.6	4.6	4000	1039.8	+10	SE	2	c	46	97	8	8	2	-	-	7.8	9	4000	1	*	52	42	*	6	Tr	0.2
7	Holyhead (Valley) ... 26	1036.3	+18	ESE	1	fs	37	97	8	5	4	1	Tr	1	4000	1038.3	+10	SE	3	0	48	92	7	5	-	-	10	10	1700	0	2	49	36	29	1	Tr	-	
	Chester (Sealand) ... 16	1036.4	+18	SE	1	c	39	92	2	5	-	-	7.8	7.8	2500	1038.9	+10	SE	2	c	34	97	2	-	-	-	8	0	7.8	-	1	41	33	26	-	-	1.0	
8	Manchester ... 235	1037.3	+16	*	0	c	37	97	3	5	3	-	4.6	4.6	6000	1039.9	+12	-	0	of	37	97	3	5	-	-	10	10	2500	1	*	44	34	27	-	-	-	
10	Spurn Head ... 29	1036.9	+16	SW	2	b	40	85	6	-	-	-	0	0	-	1038.5	+12	W/N	2	z	40	92	5	-	-	-	0	0	-	0	3	(42)	38	*	-	-	0.0	
	Catterick ... 175	1036.8	+14	S	2	f	32	97	1	-	-	-	10	10	<150	1038.9	+10	SW	1	F	27	97	0	-	-	-	0	0	-	1	*	37	27	27	-	-	0.0	
	Tynemouth ... 108	1034.7	+2	SW	3	b	38	92	3	-	-	-	0	0	-	1036.7	+10	SW	2	bc	40	92	3	5	-	-	4.6	4.6	1500	1	3	39	36	33	-	-	-	
11	St. Abbs Head ... 280	1032.8	+10	SW	3	z	41	97	6	5	-	-	4.6	4.6	2500	1035.3	+16	W	3	bc	41	92	7	4	4	-	-	2.3	4.6	2500	0	2	36	35	*	-	-	-
	Leuchars ... 36	1033.4	+10	WSW	1	m	38	92	4	5	-	2	1	7.8	2100	1035.6	+10	-	0	bc	35	97	1	5	-	-	2.3	2.3	2500	1	*	41	34	30	-	Tr	2.8	
12	Renfrew (Abbots I.) ... 19	1034.6	+22	W	1	of	35	97	2	5	-	-	10	10	2000	1036.9	+22	SE	1	of	40	97	3	5	-	-	10	10	1300	1	*	40	34	27	0.2	Tr	0.0	
	Eskdalemuir ... 794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1037.7	+18	SSE	1	F	39	97	1	-	-	-	10	10	<150	1	*	36	35	35	-	1	1.1	
	Point of Ayre ... 30	1035.4	+20	SW/W	2	bc	40	97	8	-	6	0	2.3	-	-	1037.8	+14	SW/W	2	c	43	97	8	5	-	-	6	4.6	9	2500	1	2	47	38	*	0.4	-	0.0
13A	Tree ... 22	1031.3	+16	SW/W	2	c	49	92	8	5	*	*	9	9	2500	1033.3	+12	SW/S	3	0	31	92	7	5	-	-	10	10	1800	1	4	46	46	*	2	Tr	-	
13B	Stornoway ... 80	1028.9	+18	SSW	4	c	46	86	8	7	-	-	9	9	3500	1028.8	-2	SW	6	c	51	85	7	8	7	-	-	7.8	10	2000	1	3	47	45	*	0.4	1	0.0
15	Dalwhinnie ... 1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.4	+18	SSE	2	c	44	85	7	5	-	-	7.8	7.8	2500	1	*	38	34	28	0.3	-	0.6	
	Aberdeen ... 79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.4	+10	-	0	bc	36	92	3	5	-	-	2.3	2.3	2700	3	2	44	34	25	-	-	1.0	
	Wick ... 119	1030.3	+18	SW	3	c	41	85	6	5	3	-	2.3	9	1600	1031.3	+2	SSW	3	c	44	92	6	5	7	-	-	2.3	10	1600	1	*	44	41	37	1	Tr	-
16	Sumburgh ... 30	1028.0	+6	SSW	4	bc	47	92	8	5	3	-																										

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
SECRET

Wednesday 3rd December, 1941.

No 29231.

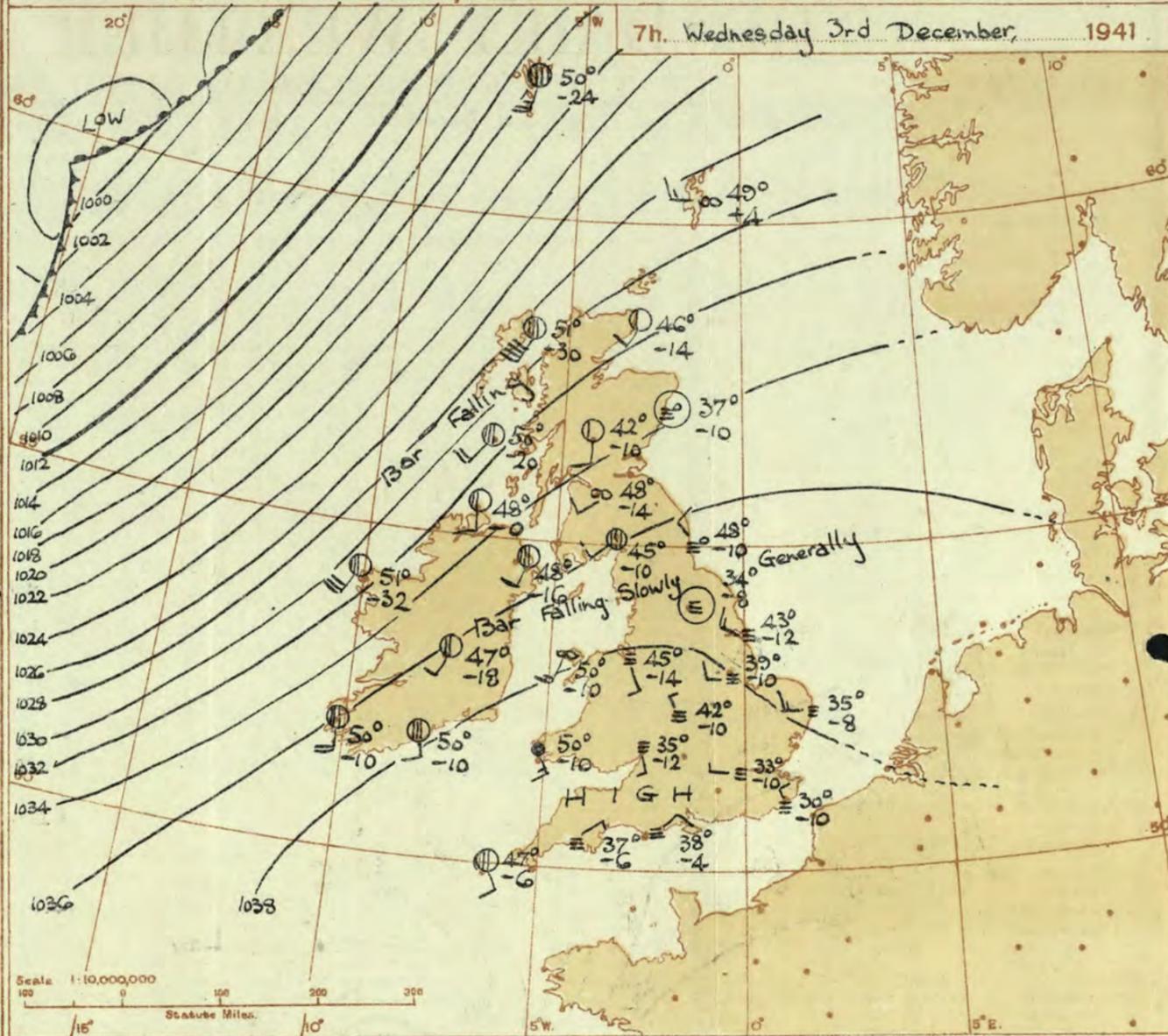
OBSERVATIONS at 13h. G.M.T. 2nd December.														OBSERVATIONS at 18h. G.M.T. 2nd December.														PAST 24 HOURS.						
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.			Barom. 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)	WEATHER.									
				Dirac.	Force. 0-12 (4)					Form.	Amount. 0-10 (12)	Height of Base. (feet) (14)			Form.	Amount. 0-10 (24)					Height of Base. (feet) (26)	7h-18h. 2nd. (37)	13h-18h. 2nd. (38)		18h-2nd 1h-3rd. (39)	1h-7h. 3rd. (40)								
1	London (Kew)...	1041.2	+2	WNW	1	f	40	92	2	-	-	10	10	2150	1041.4	0	-	0	F	40	97	1	-	-	10	10	2150	1	*	chuf	ofefe	ofefe	ofefe	ofefe
	Croydon ...	1040.6	-2	-	0	f	41	97	1	-	-	10	10	2150	1040.9	+2	WNW	1	F	38	97	1	-	-	10	10	2150	1	*	of	of	of	of	
	S. Farnborough	1041.3	-6	-	0	f	40	97	2	5	-	10	10	3200	1041.5	0	W	1	F	41	97	1	-	-	10	10	2150	1	*	of	of	of	of	
	Boscombe Down	1041.2	-2	W	2	f	41	97	3	-	-	10	10	2150	1041.7	+2	W	2	F+	40	97	0	-	-	10	10	2150	1	*	of	of	of	of	
	Thorney Island	1040.8	-4	NNE	2	f	43	85	6	1	-	7	7	1500	1041.1	+2	NNE	2	bctf	40	97	2	5	-	4.6	4.6	800	0	2	ocbcmo	bmobcf	bctf	ofefe	
	Lympe	1037.7	0	W	2	N	46	85	6	1	-	4.6	4.6	1300	1040.9	+4	W	2	bctf	37	97	1	-	-	0	0	-	1	*	ocbcmo	bmobcf	bctf	ofefe	
	Manston	1040.2	-2	W	3	N	48	85	6	5	-	4.6	4.6	1000	1040.9	+4	W	2	bctf	41	97	1	-	-	10	10	2150	1	*	ocbcmo	bmobcf	bctf	ofefe	
2	Shoeburyness ...	1040.7	+2	W	1	b	43	92	5	-	-	0	0	-	1041.1	+2	W	1	F+	36	97	0	-	-	10	10	2150	1	*	ofbmo	bmofe	ofefe	ofefe	
	Felixstowe ...	1040.5	-4	W	2	N	47	85	6	-	-	0	0	-	1041.1	+4	W	3	bctf	37	97	1	5	-	4.6	4.6	2150	1	2	ofbmo	bmofe	ofefe	ofefe	
	Gorleston ...	1040.3	+2	W	2	F+	48	85	4	-	-	0	0	-	1040.6	-2	W	3	bctf	40	85	4	-	-	0	0	-	0	2	ofbmo	bmofe	ofefe	ofefe	
	Mildenhall ...	1041.1	-2	W	2	F+	35	97	1	-	-	10	10	2150	1041.6	0	W	2	F+	35	97	0	-	-	10	10	2150	1	*	of	of	of	of	
	Cranwell ...	1040.8	-2	W	2	F+	34	97	1	-	-	0	0	-	1040.6	+2	W	3	F	36	97	0	-	-	10	10	2150	1	*	of	of	of	of	
3	Birmingham	1041.3	-2	W	1	b	38	97	1	-	-	0	0	-	1041.3	0	W	1	b	36	97	0	-	-	0	0	-	1	*	of	of	of	of	
	Upper Heyford	1041.0	-2	W	1	F	38	97	1	-	-	10	10	2150	1041.1	+2	W	1	F	37	97	0	-	-	10	10	2150	1	*	of	of	of	of	
4	Ross-on-Wye ...	1041.3	-6	W	1	of	38	97	1	-	-	10	10	2150	1041.4	0	W	1	of	37	97	0	5	-	10	10	2150	1	*	of	of	of	of	
5	Hartland Point	1041.0	-2	W	2	F	50	85	8	5	1	4.6	7.8	2000	1040.8	-2	W	1	b	49	92	7	5	-	4.6	4.6	2000	1	3	bcc	c	bctf	bccbcw	
	Bristol ...	1041.5	-6	SSE	1	F	41	97	1	-	-	10	10	2150	1041.7	0	W	1	F+	40	97	1	-	-	10	10	2150	1	3	of	of	of	of	
	Portland Bill ...	1040.8	+4	W	3	C	23	92	7	5	2	7.8	10	2500	1041.0	+6	NNE	3	bctf	43	85	7	5	2	7.8	10	2500	1	2	bcc	of	of	of	
	Plymouth ...	1041.5	-2	W	2	N	50	85	6	8	6	7.8	7.8	1500	1041.2	+2	SE	1	bctf	43	97	3	5	-	0	0	-	1	2	ocbcmo	bmof	ofefe	ofefe	
	The Lizard ...	1040.9	-4	NNE	3	C	52	82	8	6	6	7.8	7.8	1500	1040.7	+2	W	2	b	48	92	8	8	-	4.6	4.6	2500	0	3	bcc	cbc	cbc	cbc	
	Soilly (St. Mary's)	1041.5	+2	NNE	2	C	45	92	6	5	3	4.6	7.8	1200	1041.0	+2	-	0	C	50	97	6	5	-	7.8	7.8	1000	1	3	cbcc	C	C	C	
	Guernsey ...	1041.6	+2	SSE	2	Zo	50	92	7	2	-	9	9	3000	1041.9	+4	SE'S	3	Zo	50	92	5	8	2	7.8	9	2500	1	3	cmo	cmo	cmo	cmo	
6	Pembroke ...	1040.2	-4	SW	3	C	51	92	6	5	-	9	9	2000	1040.4	+6	SE	3	of	49	92	5	5	-	10	10	1500	1	2	cmo	cmo	cmo	cmo	
7	Holyhead (Valley)	1040.7	-6	SE'S	1	b	45	85	3	-	-	1	0	-	1040.7	+6	SE'S	1	of	42	92	2	3	-	0	0	-	1	2	cmo	cmo	cmo	cmo	
8	Chester (Sealand)	1040.7	-6	SE'S	1	b	45	85	3	-	-	1	0	-	1040.7	+6	SE'S	1	of	42	92	2	3	-	0	0	-	1	2	cmo	cmo	cmo	cmo	
	Manchester ...	1040.7	-10	-	0	Zo	44	97	5	5	2	1	4.6	3500	1041.1	+4	SE'S	1	of	43	92	4	5	-	9	9	3500	1	2	of	of	of	of	
10	Spurn Head ...	1040.0	0	WNW	3	F	37	97	1	-	-	10	10	2150	1039.7	+4	WNW	3	b	42	92	4	-	-	0	0	-	1	2	of	of	of	of	
	Catterick ...	1039.6	-6	S	2	bctf	35	97	3	-	-	5	4.6	-	1040.2	+4	S	3	bctf	40	97	3	-	-	5	0	2.3	-	1	3	of	of	of	of
	Tynemouth ...	1038.4	-2	W	3	bctf	50	75	5	4	-	2.3	2.3	1500	1037.8	+6	W	3	Zo	47	85	6	-	3	-	0	4.6	-	1	3	of	of	of	of
11	St. Abbs Head	1037.9	+16	S	3	b	49	85	7	4	4	2.3	4.6	2500	1035.8	0	W	4	C	51	85	8	5	7	4.6	7.8	2500	0	3	b	b	b	b	
	Leuchars ...	1035.9	-2	W	4	Zo	48	92	6	5	-	9	9	3200	1035.7	+4	W	4	Zo	51	97	5	5	-	0	2.3	-	1	3	of	of	of	of	
	Restrow (Abbots L.)	1037.2	+2	SW	3	do	49	97	5	-	-	7.8	10	3000	1037.6	+2	W	3	Zo	51	85	5	5	-	9	9	2500	1	2	of	of	of	of	
	Eskdalemuir ...	1038.3	-2	SE	3	C	44	92	6	5	4	4.6	7.8	220	1038.7	0	SW	3	f	44	97	3	5	-	10	10	2150	1	2	of	of	of	of	
	Point of Ayre ...	1039.3	0	W	3	b	51	92	8	5	4	2.3	4.6	2500	1039.5	0	SW	2	C	50	97	7	5	1	9	10	2500	1	2	of	of	of	of	
13A	Tiree ...	1035.7	+10	SW	4	C	51	97	6	5	-	10	10	1200	1035.5	0	SW	4	b	51	92	7	5	-	1	1	2500	0	4	of	of	of	of	
13B	Stornoway ...	1030.6	+2	W	5	of	53	85	7	5	7	7.8	10	1500	1032.4	0	W	4	C	52	85	7	8	7	7.8	10	1500	1	2	of	of	of	of	
15	Dalwhinnie ...	1035.5	+2	W	3	Zo	50	85	8	5	3	7.8	10	1500	1036.5	+4	W	3	C	47	85	7	8	1	4.6	10	2500	0	2	of	of	of	of	
	Aberdeen ...	1034.0	-4	W	2	C	47	75	6	5	3	4.6	7.8	3600	1034.5	0	W	2	C	47	85	6	5	7	2.3	7.8	2500	1	2	of	of	of	of	
	Wick ...	1031.8	+2	W	3	C	51	85	8	5	3	7.8	9	3000	1032.4	+10	W	3	C	47	85	6	5	7	8	9	5000	1	4	of	of	of	of	
	Sumburgh ...	1028.9	-14	W	4	r	48	97	6	2	-	10	10	300	1029.3	+14	W	5	Zo	50	97	6	6	2	9	10	700	1	4	of	of	of	of	
17	Blacksod Point ...	1038.1	+2	W	4	C	53	92	7	-	-	0	9	-	1037.5	-4	W	4	C	53	85	7	5	-	9	9	1500	0	4	C	C	C	C	
18	Malin Head ...	1037.3	+2	W	3	C	52	85	8	9	-	7.8	7.8	2500	1037.2	-2	W	3	C	50	85	8	9	-	9	9	2500	0	3	C	C	C	C	
	Aldergrove ...	1039.9	+2	W	1	Zo	48	97	5	5	-	10	10	200	1039.3	0	W	1	C	49	97	4	5	-	9	9								

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 2nd Dec.				18h. G.M.T.				01h. G.M.T. 3rd Dec.				07h. G.M.T.			
III	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN
109	02	51548	23658	5-	05665	22625	5-	03678	22528	5-	02756	20326			
115	52	62634	20487	52	81734	20467	51	02734	22987	52	02844	22426			
203				5-	03738	20628	5-	03838	20528	5-	02837	20627			
206	57	02855	20327	57	02854	20327	53	02855	22226	53	00961	20123			
210	57	02864	21326	57	02853	20327	53	02863	17225	04	00890	18203			
220				53	02615	20427				52	13426	21528			
230	5-	52638	20358	5-	05648	20458	5-	05657	20427	5-	02757	20127			
245	04	05600	22215	50	06453	16123	50	08461	24111	50	43261	24141			
260	53	02767	20317	53	05554	22356	50	01764	20214	5-	05666	20226			
275	5-	05638	16128	5-	05647	24227	5-	05658	20128	5-	02758	20128			
279	5-	05547	24247	03	05590	24415	5-	05557	19327	5-	05668	20228			
285	23	05634	28415	23	05634	28515									
288	00	45390	21143	00	47290	18143	5-	46257	22247	5-	45158	22148			
292	51	05652	32124	5-	05652	32124	5-	02757	20227	5-	02855	16225			
301	5-	47265	16145	5-	47157	12147	5-	41558	28248	5-	03558	21228			
321	--	44109	20149	00	45290	18140	00	47090	00040	--	48009	00049			
299	50	05550	24240	00	47290	024240									
292	--	46009	00049	--	46009	00049	--	46009	00049	--	46009	00049			
310	614	--	--	--	01636	24226	--	--	--	--	46109	24249			
314	--	44109	24149	--	45009	24249	00	43190	22140	--	44009	24149			
333	5-	05626	10126	5-	08438	00028	5-	05648	00028	--	57109	00049			
334	--	04354	00015	--	04375	00016	--	--	--	--	04309	00028			
340	50	43374	17144	5-	43358	00048	03	45390	00047	5-	45358	14148			
136	00	08430	26140	00	47190	26240	--	46109	22249	--	46109	22149			
336	--	46309	08349	--	48109	08349	--	--	--	--	07509	12320			
350				--	46009	22149	--	46009	22249	6-	08447	22247			
308	--	48109	00049	--	46109	04149	--	46109	04149	--	46109	02149			
279	00	47190	00040	--	46109	00049	03	41490	20443	5-	05558	00028			
390	--	46009	26140	--	46009	00049	--	44009	28149	--	44009	00049			
382				--	46109	00049	--	46009	00049	5-	41557	00047			
438	00	05590	04410							5-	04415	32243			
430	50	08423	04212	5-	43335	04245	--	49109	00049	--	46109	00049			
409	5-	02776	04126	5-	05662	02112	5-	05667	12117	50	09412	13203			

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_h = Height and amount of low cloud—See M.O. 252.
N = Total amount of cloud—See M.O. 252.
C, C_M = 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. 3rd December, 1941.
1 S.E. England	Light variable wind; fog persisting in most areas but extensive clearances in the west; rather cold in the east, mild in the west.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Light west to southwest wind; cloudy, fog locally at first; mainly mild.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Moderate or fresh s.w. wind, reaching gale force on the coasts in North and West; cloudy and mild; occasional rain in North-west.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	As 7-12.
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
 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.

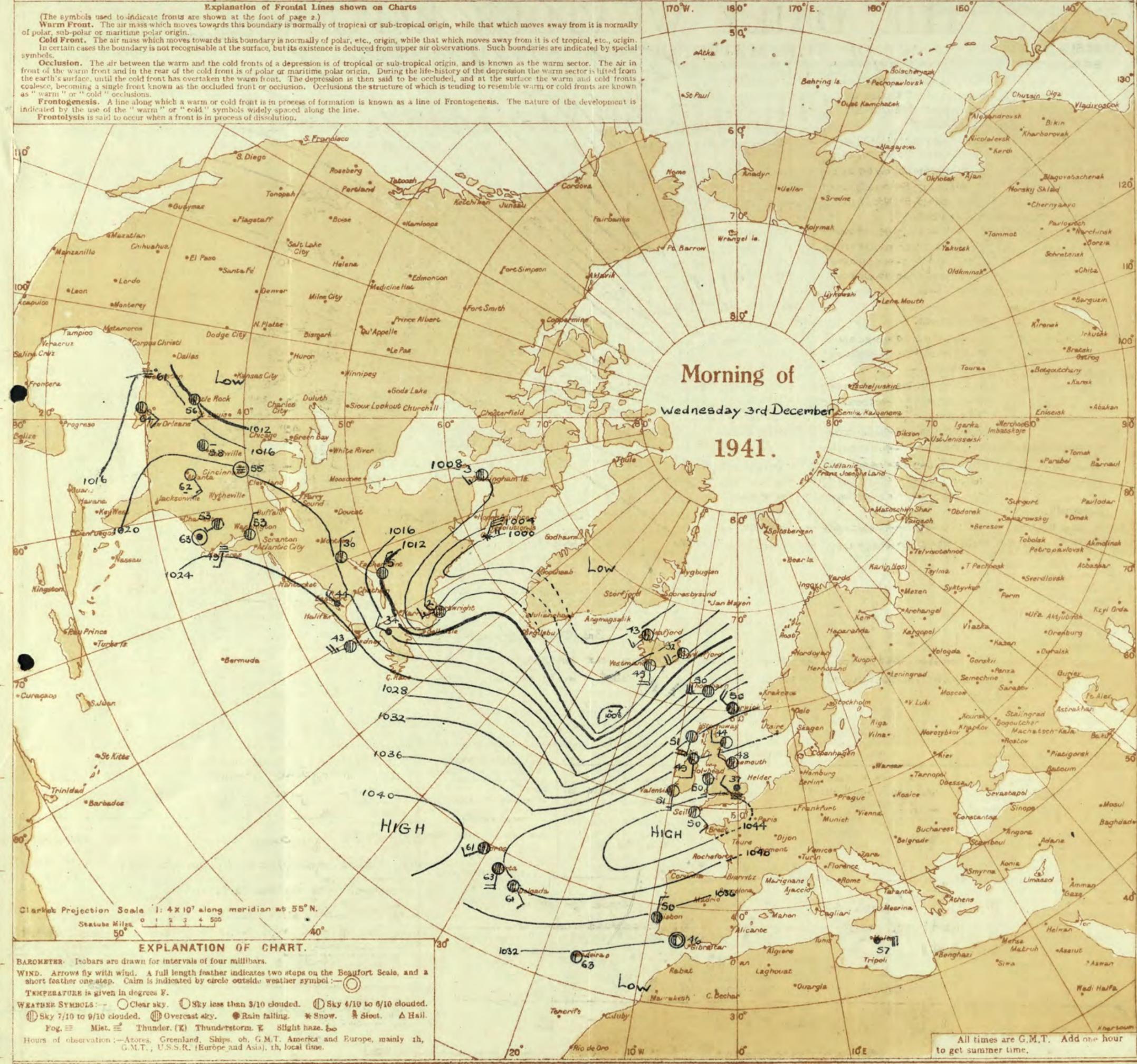
GENERAL INFERENCE.
 A large anticyclone dominates the British Isles and rather vigorous disturbances are moving quickly northeast in the Icelandic area. Strong S.W. winds will occur along the N.W. seaboard and reach gale force in places. There will be persistent fog in the S.E. half of England and in the Midlands with rather low temperature. It will be fair and mild in Scotland and Ireland apart from occasional rain.
 FURTHER OUTLOOK. In the extreme N.W. Mild S.W. winds and cloudy weather spreading slowly to Southern districts of British Isles.
 Gale warning issued at 0805h on 3.12.41. in districts 13, 16 and 17.

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.



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. ⚡ Hail. ☁ Fog. ☁ Mist. ⚡ Thunder. (⚡) Thunderstorm. ☁ Slight haze. ☁
 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.

Main table of weather observations at 1 hr. G.M.T. and 7 hr. G.M.T. for 3rd December 1941, including columns for District, Stations, Barom., Wind, Temp., Humid., Cloud, and Rainfall.

LONDON OBSERVATIONS table with columns for Day, Night, Min., Max., and other weather metrics for various London locations.

FOREIGN OBSERVATIONS table listing weather data for stations like Reykjavik, Lisbon, Madrid, Cairo, Toronto, and Washington.

EXPLANATION OF FIGURES, LETTERS, etc. section providing detailed definitions for weather symbols, barometric tendency, and other codes used in the report.

EXPLANATION OF FIGURES, LETTERS, etc. section (continued) detailing the Beaufort Scale of Wind and other meteorological standards.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION
Thursday 4th December 1941.
No 29,232

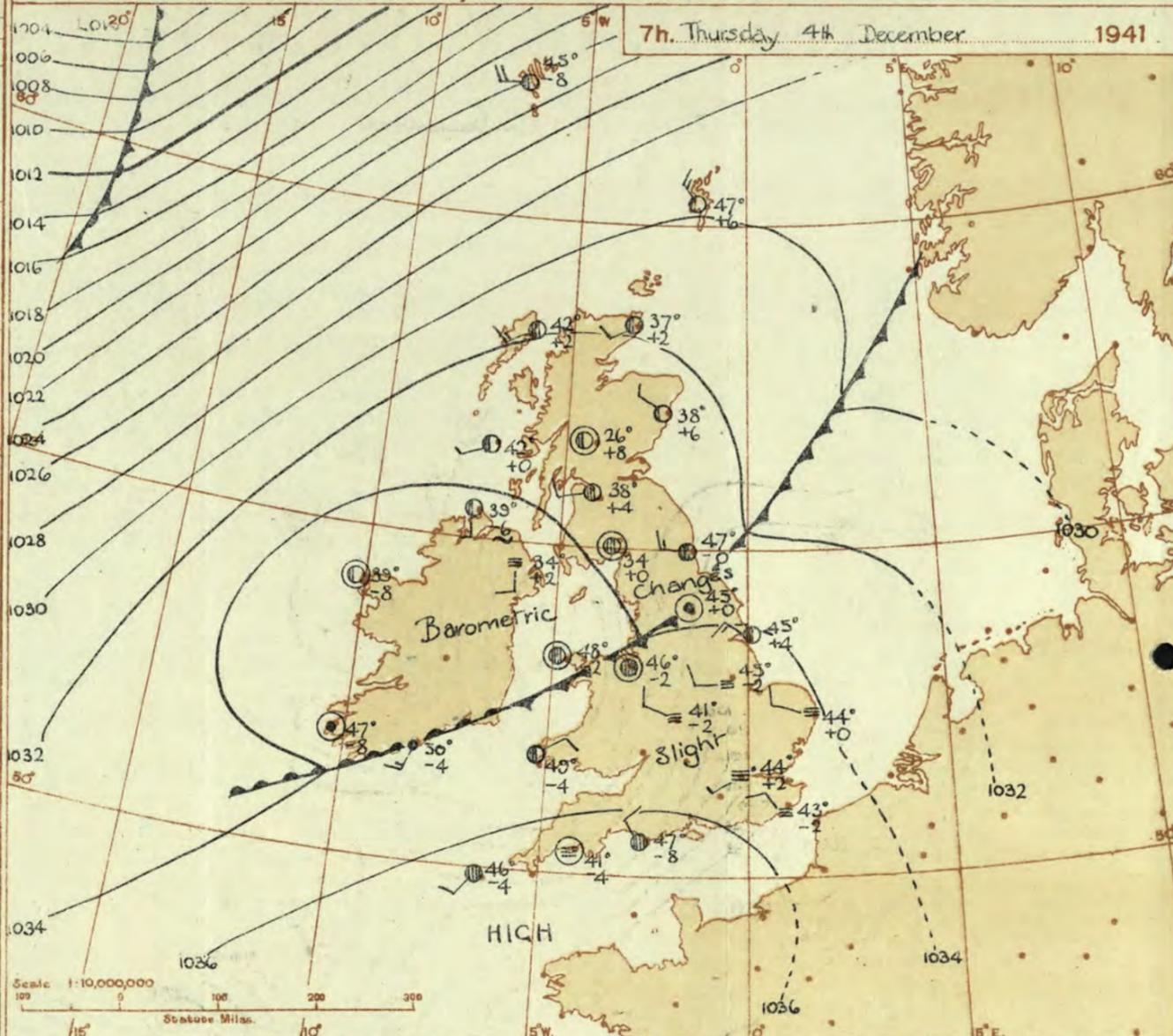
OBSERVATIONS at 13h. G.M.T. 3rd December.															OBSERVATIONS at 18h. G.M.T. 3rd December.															PAST 24 HOURS.					
DISTRICIT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.			State of Ground. 0-9 (29)	WEATHER.												
				Direc. (3)	Force (4)				Form. (9)	Amount. (10)	Height of Base. (feet) (14)			Form. (23)	Amount (24)				Height of Base. (feet) (28)	7h.-13h. 3rd. (37)	13h.-18h. 3rd. (38)		18h. 3rd 4th (39)	1h.-7h. 4th (40)											
1	London (Kew) ...	1037.3	-0.8	WSW	1	42	92	3	-	-	7	-	-	WSW	1	43	97	3	5	-	-	10	10	2500	1	*	Fe bc	off	off	off	off				
	Croydon ...	1037.2	-1.6	WSW	1	41	97	1	-	-	7	-	-	WSW	1	43	97	2	5	-	-	10	10	4200	1	*	Fe bc	off	off	off	off				
	S. Farnborough	1037.6	-2.0	WSW	1	43	92	4	5	-	7	-	-	WSW	1	44	92	4	5	-	-	9	9	2600	1	*	off	bc	bc	bc	bc				
	Boscombe Down	1038.0	-1.8	WSW	2	47	85	5	5	-	7-8	7-8	4	5	WSW	2	47	85	5	5	-	-	7-8	7-8	1000	1	*	off	bc	bc	bc	bc			
	Thorney Island	1037.8	-1.6	WSW	2	46	87	5	5	-	4	4	6	5	WSW	2	46	87	5	5	-	-	10	10	4150	1	*	off	bc	bc	bc	bc			
	Lympe	1036.6	-1.8	WSW	2	48	87	1	5	-	10	10	6	5	WSW	2	48	87	1	5	-	-	10	10	4150	1	*	off	bc	bc	bc	bc			
	Manston	1037.1	-1.8	WSW	2	46	87	1	5	-	10	10	6	5	WSW	2	46	87	1	5	-	-	10	10	4150	1	*	off	bc	bc	bc	bc			
2	Shoeburyness ...	1037.0	-1.2	WSW	3	42	97	4	5	-	10	10	6	5	WSW	3	44	97	3	5	-	-	10	10	4150	1	2	off	bc	bc	bc	bc			
	Felixstowe ...	1036.6	-1.8	WSW	3	42	97	4	5	-	10	10	6	5	WSW	3	43	97	3	5	-	-	10	10	4150	1	2	off	bc	bc	bc	bc			
	Gorleston ...	1035.7	-1.4	WSW	3	38	97	3	5	-	10	10	6	5	WSW	3	43	97	2	5	-	-	10	10	4150	1	2	off	bc	bc	bc	bc			
	Mildenhall ...	1037.2	-1.4	WSW	3	41	97	2	5	-	10	10	6	5	WSW	3	43	97	2	5	-	-	10	10	2500	1	2	off	bc	bc	bc	bc			
	Cranwell ...	1036.7	-1.2	WSW	3	43	97	2	5	-	10	10	6	5	WSW	3	45	92	2	5	-	-	10	10	2500	1	2	off	bc	bc	bc	bc			
3	Birmingham	1037.9	-4	WSW	2	46	85	3	5	-	10	10	2500	1036.5	-2	WSW	2	46	85	3	5	-	-	10	10	1500	1	2	off	bc	bc	bc	bc		
	Upper Heyford	1037.3	-1.4	WSW	3	41	97	4	5	-	10	10	2600	1036.4	-1.6	WSW	3	42	97	3	5	-	-	10	10	1800	1	2	off	bc	bc	bc	bc		
	Ross-on-Wye ...	1037.8	-0.8	WSW	3	41	97	4	5	-	10	10	800	1036.7	-1.1	WSW	3	43	97	3	5	-	-	10	10	800	1	2	off	bc	bc	bc	bc		
5	Hartland Point	1038.2	-4	S	1	45	87	6	5	-	10	10	2000	1036.9	-1.3	WSW	2	45	92	6	5	-	-	9	9	2500	1	3	off	bc	bc	bc	bc		
	Bristol ...	1038.7	-8	S	3	42	97	4	5	-	10	10	2500	1037.5	-1.2	WSW	3	43	97	2	5	-	-	10	10	4150	1	3	off	bc	bc	bc	bc		
	Portland Bill ...	1037.4	-1.2	WSW	3	44	85	7	4	5	10	10	2500	1036.3	-1.1	WSW	3	45	92	7	5	-	-	4	4	4000	1	3	off	bc	bc	bc	bc		
	Plymouth ...	1038.2	-1.6	WSW	3	40	87	1	5	-	10	10	4150	1038.0	-0.2	WSW	3	40	87	1	5	-	-	9	9	1000	1	3	off	bc	bc	bc	bc		
	The Lizard ...	1038.1	-0.8	WSW	3	51	75	8	5	-	7-8	7-8	2500	1037.1	-1.0	WSW	3	46	85	8	5	-	-	9	9	1000	1	3	off	bc	bc	bc	bc		
	Soilly (St. Mary's)	1038.4	-8	WSW	3	51	75	7	5	-	8	8	1200	1037.6	-0.8	WSW	3	45	85	7	5	-	-	2-3	4	1500	1	3	off	bc	bc	bc	bc		
	Guernsey ...																																		
6	Pembroke ...	1037.6	-8	S	3	51	92	7	5	2	-	7-8	9	1500	1036.8	-0.8	WSW	3	52	85	7	5	-	-	4	4	1500	1	3	off	bc	bc	bc	bc	
	Holyhead (Valley)	1035.6	-1.4	WSW	3	52	92	7	5	2	-	9	9	2500	1034.8	-0.8	WSW	3	51	85	7	5	-	-	9	9	2700	1	2	off	bc	bc	bc	bc	
	Chester (Sealand)	1036.3	-1.4	WSW	3	52	85	5	5	-	10	10	2900	1035.5	-0.8	WSW	3	52	75	4	5	-	-	10	10	2500	1	2	off	bc	bc	bc	bc		
	Manchester ...	1036.6	-1.2	S	3	47	92	8	5	-	10	10	3000	1035.3	-1.3	WSW	3	46	92	4	5	-	-	10	10	3000	1	2	off	bc	bc	bc	bc		
10	Spurn Head ...	1036.0	-1.4	WSW	2	46	97	4	5	2	-	7-8	10	2500	1034.9	+1.0	WSW	2	46	92	4	5	2	-	7-8	10	1500	1	2	off	bc	bc	bc	bc	
	Catterick ...	1035.7	-1.2	WSW	3	42	97	3	5	2	-	7-8	7-8	2700	1033.5	-2.2	WSW	3	49	75	7	5	3	-	7-8	9	2500	1	3	off	bc	bc	bc	bc	
	Tynemouth ...	1034.3	-1.2	WSW	3	50	75	6	5	-	7-8	7-8	2200	1032.6	-1.7	WSW	3	48	85	4	2	3	-	-	2-3	4	2400	1	3	off	bc	bc	bc	bc	
11	St. Abbs Head	1032.4	-1.8	S	2	49	75	8	4	4	2	-	2-3	4	3000	1031.5	+2	WSW	2	46	85	8	4	4	-	2-3	4	2500	0	2	off	bc	bc	bc	bc
	Leuchars ...	1031.5	-1.4	WSW	3	48	75	6	5	-	4	4	2800	1030.1	-1.4	WSW	3	45	85	6	5	3	-	-	2-3	4	2200	1	2	off	bc	bc	bc	bc	
	Reafrew (Abbots L.)	1033.0	-1.4	WSW	3	48	75	7	5	-	10	10	2500	1031.3	-1.7	WSW	3	49	85	6	5	3	-	-	9	9	2700	1	2	off	bc	bc	bc	bc	
	Bakdalemuir ...	1033.4	-1.8	WSW	3	47	85	8	5	-	10	10	1500	1032.9	-0.5	WSW	3	44	85	8	5	5	-	-	9	9	1500	1	3	off	bc	bc	bc	bc	
	Point of Ayre ...	1034.8	-1.0	WSW	3	51	85	8	5	-	10	10	2000	1033.8	-1.0	WSW	3	48	85	8	5	2	-	-	10	10	2000	0	3	off	bc	bc	bc	bc	
13A	Tiree ...	1029.8	-8	S	4	50	85	7	5	-	10	10	2100	1029.3	+0.5	WSW	2	49	92	7	5	-	-	9	9	1500	1	3	off	bc	bc	bc	bc		
	Stornoway ...	1024.9	-2.4	WSW	3	50	85	7	5	7	-	7-8	10	2000	1025.5	+0.6	WSW	3	48	92	7	5	-	-	7-8	10	2000	1	4	off	bc	bc	bc	bc	
	Dalwhinnie ...	1031.6	-1.2	WSW	3	44	75	8	2	-	1	1	2500	1029.8	-1.8	S	3	44	85	7	5	-	-	9	9	1500	1	2	off	bc	bc	bc	bc		
	Aberdeen ...	1029.9	-2.8	WSW	3	48	75	6	5	-	1	1	1025.0	1025.0	0	WSW	3	43	85	4	5	-	-	9	9	4000	1	2	off	bc	bc	bc	bc		
	Wick ...	1027.7	-1.8	WSW	3	48	85	8	5	-	1	1	1026.2	1026.2	0	WSW	3	45	85	7	5	-	-	9	9	4000	1	2	off	bc	bc	bc	bc		
	Sumburgh ...	1027.5	-1.4	WSW	3	50	92	8	5	-	2-3	4	3500	1025.4	-2.1	WSW	3	47	97	7	5	-	-	9	9	2000	1	4	off	bc	bc	bc	bc		
17	Blackod Point ...	1030.0	-6	WSW	5	51	97	7	5	-	10	10	1500	1033.0	+3.0	WSW	3	49	85	7	4	-	-	4	4	1500	1	4	off	bc	bc	bc	bc		
	Malin Head ...	1030.8	-6	WSW	4	50	75	8	5	-	7-8	7-8	4000	1031.3	+1.5	WSW	4	48	92	6	5	-	-	9	9	800	0	4	off	bc	bc	bc	bc		
	Aldergrove ...	1031.4	-6	WSW	4	48	85	8	5	-	10	10	2000	1033.6	+2.2	WSW	2	48	85	7	5	-	-	9	9	1500	1	4	off	bc	bc	bc	bc		
19	Birr Castle ...	1034.9	-2	WSW	2																														

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 7th. December 1st. G.M.T.				01h. G.M.T. 8th. December 07h. G.M.T.								
III	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN			
109	00	05000	0002	5-	02067	1407	80	00852	26412	2-	00863	20303
115	54	14844	55022	62	62634	55667	87	01344	28465	87	02594	26485
203	0-	02838	16628	6-	62738	16768						
206	03	00930	22302	5-	02857	22227	03	01361	00024	53	01361	16114
210	04	00830	17301	03	02863	18316	54	00862	24363	00	01990	19104
220	57	25746	21588	83	01754	23415						
230	5-	02857	21428	62	54546	18258	80	00841	28401			
245	50	00752	22443	5-	05676	24216	57	05664	28128	57	01863	23124
260	5-	02857	22317	54	05662	20413	57	05664	24156	04	04590	00014
278	5-	02857	20327				80	02863	25265	24	01851	14115
279	5-	02767	19327	5-	05658	20325	5-	51648	22358	50	47261	22124
285	20	01744	24514	50	01744	26514				23	01744	30315
288	50	02765	21145	5-	02765	20215	50	00761	20101	5-	05657	21157
275	5-	02857	14127	5-	58638	25368	00	01790	26264	00	43390	00044
301	5-	08458	18228	5-	05657	19228	52	51653	24228	5-	21548	26158
321	5-	45258	18148	5-	47358	20348	00	49390	22142	57	47255	20148
299	50	05546	24126	50	43352	4242	5-	08447	24247	5-	05544	24114
292	5-	43367	00047	5-	08455	21245	5-	05665	27215	5-	08468	20118
310	--	46109	20249	--	02428	20228				--	57109	20249
314	--	46109	22149	5-	43348	22148	00	08490	24120	05	45290	24145
333	5-	52528	16158	5-	05648	18228	57	02865	00028	5-	51428	22258
334	--	51437	02128	--	02647	28228				--	02555	28116
340	5-	47344	16248	5-	08458	20128	03	04690	00023	5-	08458	12148
136	--	48109	24149	5-	45158	20248	5-	45257	22147	5-	45258	25248
336	52	02754	12328	52	05643	16328				57	02753	16327
350	5-	47338	22228	5-	45258	18248	5-	08458	20248	5-	08468	21128
368	5-	43348	08148	5-	47358	00028	5-	45357	00048	50	47252	26142
279	5-	05658	25178	5-	05658	00028	5-	05558	20228	5-	05568	00028
390	5-	43158	25248	--	46109	24149	--	48109	25249	5-	43228	26148
362	5-	05558	28128	5-	47358	00028	5-	45357	22148	5-	05558	00028
438										5-	02558	31228
430	50	41454	22244				5-	08458	02148	5-	08458	28128
400	03	09200	15240	04	09690	16112	5-	02757	14227	5-	05648	16128

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_u - 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. Thursday 7th. November
1 S.E. England	Light variable or westerly wind. Dull and misty generally with thickening fog tonight. Average temperature.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light variable winds, mainly between north and west. Cloudy with slight local drizzle; bright intervals later: local fog forming tonight. Average temperature.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Moderate westerly winds, becoming fresh to strong in extreme North later. Fair apart from a few scattered showers. Average temperature.
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	Light variable winds; fair but with local morning fog. Average temperature.
18 N. E. Ireland	
19 S. E. Ireland	Light variable winds; cloud with occasional rain or drizzle. Rather mild.
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 anticyclone extends from the Azores to the British Isles, but a feeble trough of relatively low pressure is moving very slowly southeast over England. In the Midlands, East and Southeast England it will be dull with extensive mist or fog. There will be some rain or drizzle in a belt from Southern Ireland to Northeast England, but further north it will be mainly fair.

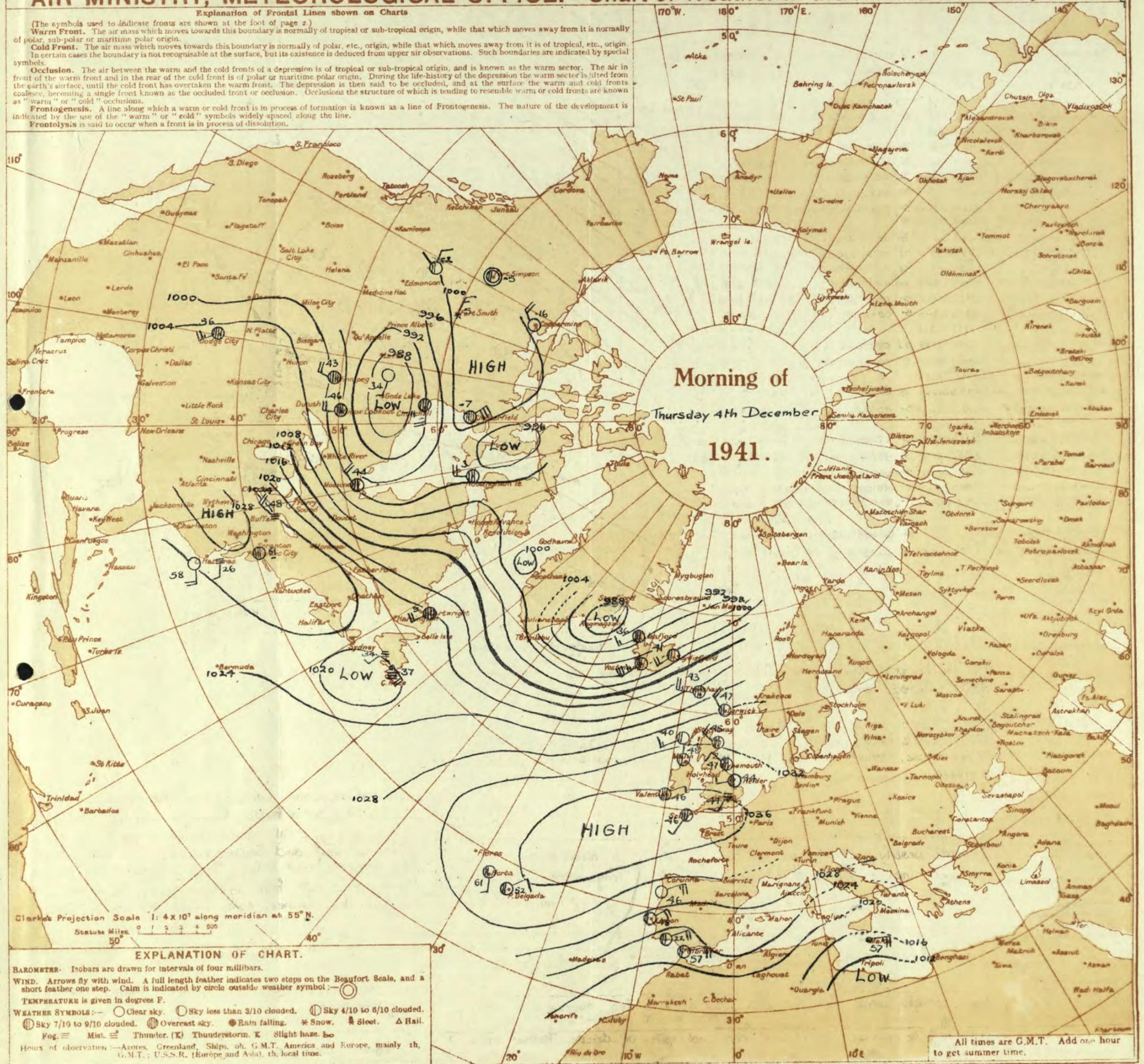
FURTHER OUTLOOK.
Quiet and foggy in the South; mainly fair in the North.

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

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.



Clarke's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500
 50° 40°

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. ⚡ St. Sleet. ⚡ Hail.
 Fog. ☁ Mist. ☁ Thunder. ⚡ Thunderstorm. ☁ Slight haze. ☁
 Hours of observation:—Azores, Greenland, Ships, etc., G.M.T. America and Europe, mainly th, G.M.T.; U.S.S.R. (Europe and Asia), th, local time.

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

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

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

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

PAST 24 HOURS.

Main table with columns for District, Stations, Barom., Wind, Cloud, Temp., Humid., Visibility, etc. Includes handwritten notes like '10' and 'clm'.

LONDON OBSERVATIONS table with columns for Day, Weather, Temperature, Rainfall, Humidity, etc.

FOREIGN OBSERVATIONS table with columns for Stations, Barom., Wind, Weather, Temp., etc.

Atmospheric Pollution table with columns for Milligrams of Solid Impurity per cubic metre.

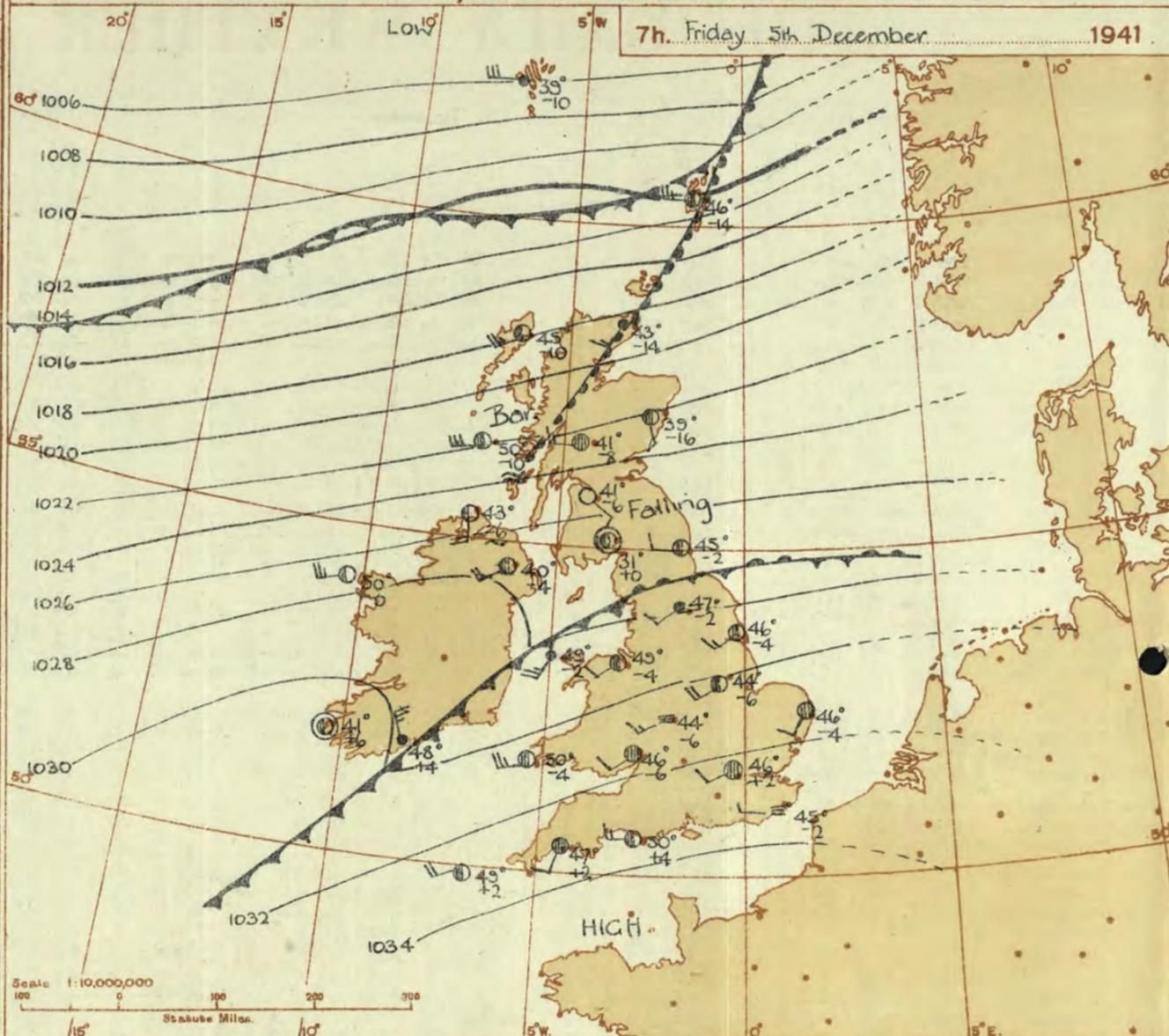
EXPLANATION OF FIGURES, LETTERS, etc. table with columns for COLUMNS 2, 16, COLUMNS 4, 18, COLUMNS 8, 22, COLUMNS 30, COLUMNS 34, 35.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 4th Dec.				18h. G.M.T.				01h. G.M.T. 5th Dec.				07h. G.M.T.			
III	C _M	wwVhN	DDFWN	C _M	wwVhN	DDFWN	C _M	wwVhN	DDFWN	C _M	wwVhN	DDFWN	C _M	wwVhN	DDFWN
106	82	02854	19320	5-	02865	18525	57	02853	18425	57	61645	18568			
115	52	81834	20487	52	81834	20487	85	14834	55584	57	14844	53587			
203				8-	81838	16688									
206	57	02961	24127	5-	02858	24128	53	22964	20365	50	22964	22464			
210	07	02950	16228	07	02890	16328	57	02963	19227	57	02963	16426			
220	83	25855	21486	30	02646	20486				80	25746	25586			
230	87	02854	00027	51	02853	16128	8-	25757	20287	8-	81647	53587			
245	50	02862	22228	5-	05544	26114	51	08466	22228	57	08465	00026			
260	53	05663	00026	50	05663	26115	57	04864	00068	04	00890	22313			
278	23	05651	14246	52	52746	12368	57	02853	20258	50	00851	22311			
279	14	05643	00045	5-	52458	00048	52	42666	21368	50	05664	21224			
285	13	01853	26414							5-	02747	28467			
288	14	05653	26155	54	08453	16116	57	05643	18328	57	63644	21266			
575	5-	05655	12147	5-	05654	12126	53	05754	00025	53	00603	28137			
801	83	05653	22124	5-	47338	16258	5-	02758	22428	62	51645	22558			
321	5-	41457	20147	5-	43355	21145	53	08462	19147	57	7564	21327			
299	5-	05647	24227							5-	05645	22215			
292	57	45266	00057	07	08490	00047	5-	05535	20248	5-	05658	16128			
310	-	57103	20243	--	57103	20349	--			--	02648	20348			
244	5-	41566	22246	02	45278	22148	5-	46367	21247	5-	05558	22328			
338	57	21645	10247	5-	02748	20258	52	21745	18558	--	03557	20428			
334	--	51437	30158	--	03647	26228	--			--	03557	20428			
340	5-	02767	17257	5-	05668	20228	5-	05668	20228	53	04763	16225			
136	5-	08458	22268	6-	47258	20268	5-	08468	21848	5-	05568	19228			
336	52	02754	16328	52	02754	20328				57	02763	20327			
350				5-	47358	20248	5-	43358	17148	5-	41468	24248			
308	5-	08458	00048	5-	08448	00028	5-	05667	20927	5-	02768	20428			
379	5-	05668	20128	5-	47358	22148	5-	47358	24248	5-	08458	24348			
390				--	46303	24149	5-	45168	00048	5-	03268	20248			
382	5-	05568	00028	5-	47368	00028	5-	08452	00028	5-	05637	23227			
436	5-	03558	28328							5-	03558	22328			
430	5-	08468	22228	5-	43368	00048	5-	08468	02148						
409	5-	02756	16228	5-	05667	15127	5-	02758	16328	5-	02758	18328			

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_h - Height and amount of low cloud - See M.O. 252.
N - Total amount of cloud - See M.O. 252.
C, C_M - 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 5th December,

1 S.E. England	Light southwesterly wind; dull and rather misty. Rather mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Light or moderate southwest wind; dull with occasional rain. Rather mild.
5 S.W. England	Light or moderate southwesterly wind; cloudy; rather mild.
6 South Wales ...	
7 North Wales ...	As 4
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Moderate southwest wind, fresh to strong in the North and Northwest. Fair apart from some scattered 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	
19 S. E. Ireland	Variable winds; cloudy with rain at times, but some bright intervals.
20 S. W. Ireland	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.

Pressure is high to the South and low to the North of the British Isles. It will remain dull but dry in the South. Elsewhere it will be rather unsettled with occasional rain or local showers.

FURTHER OUTLOOK.

No important changes

Forecasts issued at 1030 G.M.T.

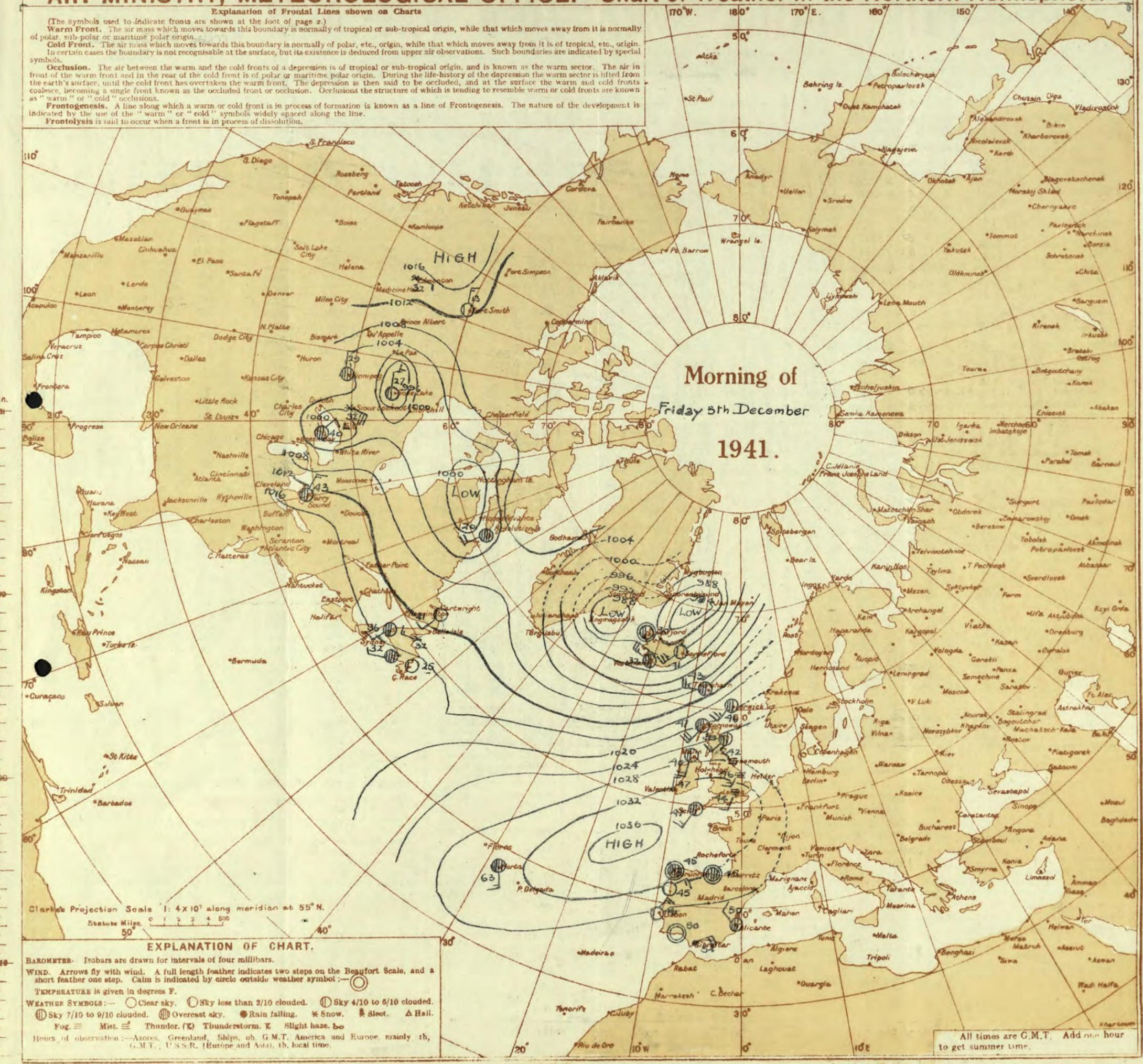
N. K. JOHNSON, D.Sc., A.R.C.S.,
Director.

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.
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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 of the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol: ○
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: ○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◒ Sky 7/10 to 9/10 clouded. ◓ Overcast sky. ☔ Rain falling. * Snow. ❄ Sleet. ⚡ Hail.
 Fog ≡ Mist ≡ Thunder. (T) Thunderstorm. K Slight haze. ☁
 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.

OBSERVATIONS at 1 hr. G.M.T. 5th December														OBSERVATIONS at 7 hr. G.M.T. 5th December														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.			Barom. at M.S.L. (29)	Change in 3 hours (30)	TEMPERATURE.					RAINFALL.		SUNSHINE (36)			
					Dirac.	Force.					Low.	Med.	High.			Low.	Med.					High.	Low.	Med.			High.	Low.	Med.	High.	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	*	*	*	*	*	1032.8	-2	SW	2	0	0	44	85	5	0	0	0	1032.8	-2	SW	2	0	0	47	44	41	-	-	0.0	
	Croydon	217	1033.4	-0.6	SSW	1	44	85	4	0	0	0	1033.1	-0.3	WSW	2	0	0	44	85	5	0	0	0	1033.1	-0.3	WSW	2	0	0	46	44	40	-	-	0.0	
	S. Farnborough	226	1033.4	-0.6	SSW	1	43	87	2	0	0	0	1033.1	-0.3	WSW	2	0	0	44	87	4	0	0	0	1033.1	-0.3	WSW	2	0	0	46	43	41	-	-	0.0	
	Boscombe Down	417	1033.3	-0.6	SSW	1	43	87	2	0	0	0	1033.1	-0.2	WSW	2	0	0	44	87	4	0	0	0	1033.1	-0.2	WSW	2	0	0	47	43	41	-	-	0.0	
	Thorney Island	10	1033.8	-0.6	SSW	1	44	87	4	0	0	0	1033.5	-0.7	W	1	3	3	44	87	4	5	-	-	10	10	4000	1	5	2	47	43	42	-	-	0.0	
2	Lymington	346	1033.5	-0.6	SSW	1	44	87	4	0	0	0	1033.5	-0.7	W	1	3	3	44	87	4	5	-	-	10	10	4000	1	5	2	47	43	42	-	-	0.0	
	Manston	154	1033.6	-0.6	SSW	1	44	87	2	0	0	0	1032.8	-0.8	W	1	3	3	45	85	4	5	-	-	10	10	3300	1	5	2	46	42	40	-	-	0.0	
	Shoeburyness	11	1033.4	-0.8	SSW	1	45	82	2	0	0	0	1032.6	-0.8	SW	3	0	0	46	85	3	5	-	-	10	10	4500	1	5	2	49	45	41	-	-	0.0	
	Felixstowe	15	1033.1	-0.8	SSW	1	46	87	2	0	0	0	1032.3	-0.8	WSW	1	0	0	44	82	0	5	-	-	10	10	4000	1	5	2	47	43	42	-	-	0.0	
	Gorleston	5	1031.7	-0.6	SSW	1	46	82	2	0	0	0	1031.3	-0.4	WSW	2	0	0	46	85	0	5	-	-	10	10	1500	1	5	2	48	42	43	-	-	0.0	
3	Mildenhall	19	1032.6	-0.6	SSW	1	46	82	2	0	0	0	1031.8	-0.8	WSW	2	0	0	46	85	0	5	-	-	10	10	3000	1	5	2	47	45	41	-	-	0.0	
	Cranwell	240	1031.3	-0.6	SSW	1	46	85	2	0	0	0	1030.2	-1.1	SW	3	0	0	44	75	5	5	-	-	4	3	4000	1	5	2	47	44	41	-	-	0.0	
	Birmingham	535	1032.9	-1.0	SSW	1	44	87	2	0	0	0	1031.0	-1.9	SW	3	0	0	44	85	4	5	-	-	9	9	2500	1	5	2	48	43	39	-	-	0.0	
	Upper Heyford	408	1032.9	-1.0	SSW	1	44	87	2	0	0	0	1032.2	-0.7	WSW	2	0	0	43	87	5	5	-	-	9	9	3500	1	5	2	47	43	41	-	-	0.0	
	Ross-on-Wye	223	1031.5	-0.6	SSW	1	44	87	2	0	0	0	1031.5	-0.6	SW	2	0	0	46	75	7	5	-	-	10	10	3000	1	5	2	47	45	43	-	-	0.0	
4	Hartland Point	299	1032.7	-2	WSW	3	48	55	8	5	1	2500	1031.5	-1.2	W	4	0	0	48	75	8	5	-	-	7	8	2500	1	4	4	51	47	45	-	-	0.0	
	Bristol	209	1033.4	-0.6	SSW	1	47	85	5	5	3	4000	1032.6	-0.8	SSW	3	0	0	46	75	7	5	-	-	2	3	3000	1	4	4	47	42	37	-	-	0.0	
	Portland Bill	32	1033.5	-0.6	SSW	1	50	82	7	5	1	2500	1032.3	-1.2	W	4	0	0	50	85	7	4	-	-	10	10	4000	1	3	3	51	47	45	-	-	0.0	
	Plymouth	82	1034.5	-0.4	SSW	1	48	82	4	5	2	1500	1034.0	-0.5	SSW	3	0	0	47	75	6	5	-	-	10	10	2000	1	3	3	47	45	42	-	-	0.0	
	The Lizard	240	1033.8	-2	SSW	3	48	75	8	8	2	1500	1033.9	-0.1	SSW	3	0	0	48	65	8	5	-	-	10	10	1500	1	3	3	47	45	42	-	-	0.0	
5	Scilly (St. Mary's)	163	1033.7	-0.6	SSW	1	47	75	8	5	1	1500	1033.2	-0.5	WSW	4	0	0	49	75	8	5	-	-	7	8	1500	1	3	3	50	47	45	-	-	0.0	
	Guernsey	175	1033.7	-0.6	SSW	1	47	75	8	5	1	1500	1033.2	-0.5	WSW	4	0	0	49	75	8	5	-	-	7	8	1500	1	3	3	50	47	45	-	-	0.0	
	Pembroke	142	1032.5	-1.2	SSW	1	50	75	8	8	1	2500	1031.2	-1.3	SW	5	0	0	50	85	8	8	-	-	8	9	2500	1	3	3	52	42	40	-	-	0.0	
	Holyhead (Valley)	26	1029.4	-1.0	SSW	1	47	85	6	5	2	1900	1028.5	-0.9	SSW	5	0	0	49	87	5	5	-	-	10	10	1400	1	4	4	51	48	47	0.4	2	0.0	
	Chester (Sealand)	16	1030.7	-0.6	SSW	1	46	85	6	5	1	3000	1029.5	-1.2	SW	2	0	0	49	75	6	5	-	-	9	9	2500	1	4	4	49	47	42	0.2	1	0.0	
6	Manchester	235	1031.0	-0.6	SSW	1	46	82	6	5	1	3500	1029.8	-1.2	SW	3	0	0	45	85	6	5	-	-	9	9	3500	1	4	4	47	45	42	-	-	0.0	
	Spurn Head	29	1031.1	-0.4	SSW	3	46	82	3	5	3	7.8	1029.2	-1.9	SW	3	0	0	46	82	3	5	-	-	7	8	2500	1	2	2	47	44	41	-	-	0.0	
	Catterick	175	1027.7	-2.0	SSW	3	43	85	7	5	7	7.8	1027.5	-0.2	SW	2	0	0	47	82	6	8	-	-	9	9	1200	1	2	2	52	41	39	-	-	3.4	
	Tynemouth	108	1027.3	-1.0	SSW	1	42	87	3	5	1	10	1026.9	-0.4	W	2	0	0	46	87	6	5	-	-	3	3	1500	1	2	2	47	42	41	-	-	0.0	
	St. Abbs Head	280	1026.2	-0.6	SSW	3	41	85	7	5	7	4.6	1025.0	-1.2	SW	3	0	0	39	85	7	4	-	-	1	2	2500	1	2	2	46	37	35	-	-	0.0	
7	Leuchars	36	1025.3	-2.0	SSW	3	37	85	4	5	7	2.3	1023.5	-1.8	W	3	0	0	38	87	5	5	-	-	0	0	400	1	1	1	41	34	25	-	-	0.1	
	Kenfrew (Abbots)	19	1026.5	-1.2	SSW	1	38	87	2	5	1	7.8	1025.1	-1.4	SE	1	0	0	41	92	5	5	-	-	0	0	3000	1	1	1	40	35	25	-	-	0.0	
	Eskdalemuir	794	1027.1	-0.6	SSW	1	47	85	7	6	2	2.3	1027.1	-0.6	SSW	1	0	0	31	92	6	5	-	-	2	3	400	1	1	1	42	31	24	-	-	3.5	
	Point of Ayre	30	1028.1	-2	WNW	3	47	85	7	6	2	2.3	1027.3	-0.8	WNW	3	0	0	46	82	7	6	-	-	7	8	1000	1	3	3	53	45	40	0.5	1	3.4	
	Tiree	22	1028.5	-1.2	SSW	1	48	82	8	8	1	4.6	1026.8	-1.7	WSW	5	0	0	50	85	7	8	-	-	7	8	1500	1	3	3	47	45	42	-	-	0.0	
8	Stornoway	80	1018.8	-1.4	SSW	1	47	85	8	8	7	4.6	1016.9	-1.9	SW	5	0	0	45	82	7	8	-	-	4	6	1500	1	3	3	46	42	40	-	-	0.0	
	Dalwhinnie	1176	1023.5	-0.8	SSW	1	41	85	7	5	1	10	1023.5	-0.8	SW	3	0	0	41	85	7	5	-	-	10	10	1500	1	3	3	45	35	30	-	-	0.1	
	Aberdeen	79	1021.3	-1.6	SSW	1	42	85	8	5	7	2.3	1017.3	-4.0	SW	3	0	0	39	85	5	5	-	-	2	3	2000	1	2	2	42	38	28	-	-	0.2	
	Wick	119	1017.7	-1.6	SSW	1	43	85	8	5	7	2.3	1017.7	-1.6	SW	3	0	0	43	85	8	5	-	-	4	6	3000	1	2	2	42	40	37	-	-	0.2	
	Sumburgh	30	1014.7	-1.4	SW	5	46	85	7	5	7	9	1014.7	-1.4	W	5	0																				

THE DAILY WEATHER REPORT
 OF THE METEOROLOGICAL OFFICE, LONDON.

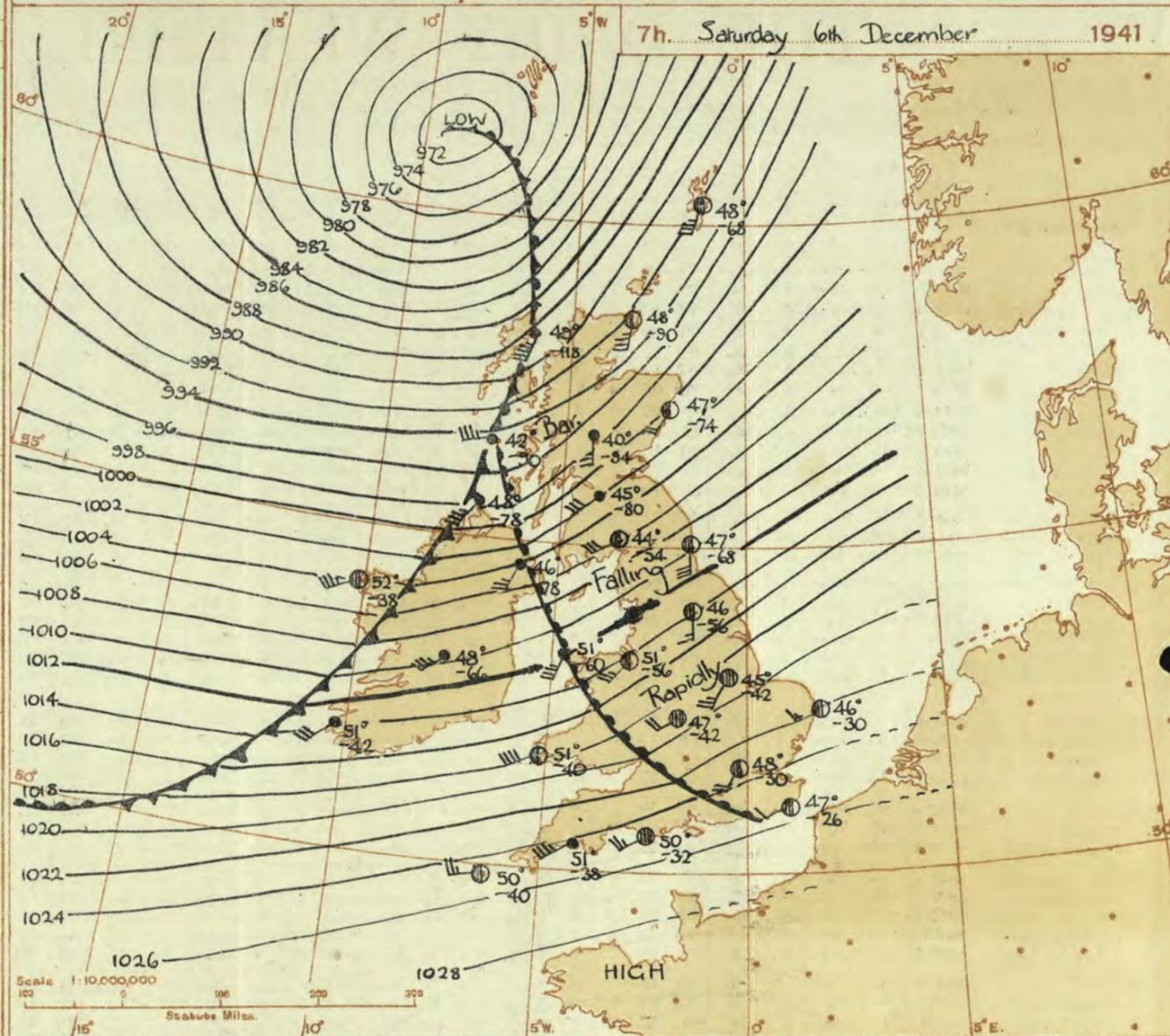
OBSERVATIONS at 13h. G.M.T. 5th December														OBSERVATIONS at 18h. G.M.T. 5th December														PAST 24 HOURS.							
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				Barom. 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)	WEATHER.								
				Dirce.	Force.					Form.	Amount.	Height of Base. (feet) (14)	Form.			Amount.	Height of Base. (feet) (28)					Dirce.	Force.	Form.	Amount.		Height of Base. (feet) (28)	7h.—13h. 5h. (37)	13h.—18h. 5h. (38)	18h. 5h. to 1h.—7h. 6h. (39)	1h.—7h. 6h. (40)				
1	London (Kew)...	1032.5	-10	WSW	2	Zo	48	65	6	5	-	10	10	1500	1031.8	-4	SW	2	Zo	47	75	6	5	-	10	10	2500	1	* cmo czo	czo m.	cir m	cir m			
	Croydon ...	1032.1	-10	WSW	2	e	49	65	6	5	-	10	10	3000	1031.3	-4	SSW	2	Zo	47	75	6	5	-	10	10	3000	1	* cm. czo	czo m.	cir m	cir m			
	S. Farnborough	1032.8	-10	SW	3	c	48	65	8	5	-	10	10	3000	1032.0	0	WSW	3	Zo	47	75	6	5	-	9	9	3500	1	* cm. w c	czo	cir m	cir m			
	Boscombe Down	1033.1	-10	SW	3	c	48	75	7	5	-	10	10	3500	1032.4	-2	SW	3	PR	45	85	7	5	-	9	9	2500	0	* cm. c	c	cm	cbe			
	Thorney Island	1033.5	-6	WSW	2	Zo	49	75	6	5	-	10	10	4100	1032.7	+2	w	2	Zo	49	85	5	5	-	10	10	3500	0	* of cmm.	cm.	cm	cm			
	Lympe	1032.2	-10	w	2	Zo	48	85	6	5	-	9	9	3500	1032.0	-2	WSW	2	Zo	45	75	6	5	-	9	9	3200	1	* czo	cm.	cm	cm			
Manston	1032.6	-10	w	2	Zo	49	65	6	5	-	9	9	4000	1031.6	-4	WSW	3	Zo	45	75	6	5	-	6	4-6	7-8	3500	1	* cm. zo	czo	id. m	id. m			
2	Shoeburyness ...	1032.6	-6	SW	2	n	49	75	4	5	-	9	9	3500	1031.4	-4	SSW	3	c	47	75	5	5	-	10	10	4000	1	* cfm	cm.	cm	cm			
	Felixstowe ...	1031.9	-6	W'S	3	Zo	48	75	5	5	-	9	9	4000	1030.8	-2	SW	2	m	46	85	4	5	-	10	10	1500	0	* cfm m	cm.	cm	cm			
	Gorleston ...	1030.4	-16	SW	3	Zo	48	85	6	5	-	9	9	1500	1029.2	-4	SW	2	c	47	75	6	5	-	9	9	1500	0	* cm.	czo	cm	cm			
	Mildenhall ...	1031.3	-10	SW	3	Zo	49	75	6	5	-	9	9	4100	1029.7	-6	SW	3	Zo	47	85	5	5	-	10	10	4100	0	* cfm.	czo	cm	cm			
	Cranwell ...	1029.3	-10	SW	4	Zo	47	75	5	7	6	1	9	4000	1028.5	-2	WSW	4	Zo	47	92	5	5	-	9	9	1800	1	* cm.	cm.	cm	cm			
3	Birmingham	1030.3	-8	SW	3	c	47	75	8	-	7	0	9	-	1029.5	-2	SW	3	ir.	47	92	6	6	-	3	10	10	1500	1	* c	coir.	co	co		
	Upper Heyford	1031.4	-10	SW	3	c	47	75	6	5	-	9	9	4500	1030.6	-2	SW	3	ir.	46	92	6	5	-	10	10	4000	1	* cm. m.	co. r. m.	co	co			
4	Ross-on-Wye ...	1030.8	-10	SW	4	c	50	75	7	5	1	-	7-8	9	1030.3	0	SW	4	c	49	85	7	5	1	-	9	10	2500	1	* cm. zo.	pc	co	co		
5	Hartland Point	1031.8	-4	WSW	4	c	50	85	8	5	2	-	9	10	2000	1031.0	0	WSW	4	c	50	85	8	5	2	-	7-8	10	1500	1	4 c	cid. c	id. c	c	
	Bristol ...	1032.3	-10	WSW	5	c	49	75	8	5	7	-	4-6	9	3000	1031.7	0	SW	4	Zo	48	75	6	5	-	10	10	2500	1	* c	cm.	cir m	cm. c		
	Portland Bill ...	1032.8	-14	SW	4	c	51	85	8	5	-	-	10	10	4000	1032.3	-6	SW	4	c	50	85	7	5	-	10	10	2500	1	4 c	c	cir m	cm. c		
	Plymouth ...	1033.9	-6	WSW	4	c	50	65	7	5	-	-	10	10	4000	1033.4	0	SW	4	c	51	75	6	5	-	10	10	2500	0	2 cm. c	c	cir m	cir m		
	The Lizard ...	1033.9	-4	SW	4	c	50	75	8	5	-	-	10	10	1800	1033.4	+8	WSW	4	c	50	75	8	5	2	-	9	10	1500	0	4 c	c	c	c	
	Scilly (St. Mary's)	1034.0	-2	WSW	2	c	51	75	8	5	-	-	10	10	1500	1033.5	+2	W'N	4	bc	50	75	8	5	-	9	9	1500	1	3 c	c	c	c		
Guernsey ...	1034.0	-2	WSW	2	c	51	75	8	5	-	-	10	10	1500	1033.5	+2	W'N	4	bc	50	75	8	5	-	9	9	1500	1	3 c	c	c	c			
6	Pembroke ...	1031.0	-6	SW	6	eq	51	97	8	8	2	-	7-8	10	2000	1031.0	+6	w	3	ir.	49	85	7	5	-	4-6	7-8	2500	1	3	co. r. p. g.	cir. m.	cir m	cir m	
	Holyhead (Valley)	1028.9	-6	WNW	4	c	49	75	8	7	4	-	4-6	7-8	2000	1028.4	-4	SW	4	bc	48	85	9	5	-	5	2-3	2-3	2000	1	4	co. r. d. d. c.	cir. m.	cir m	cir m
7	Chester (Sealand)	1029.1	-6	NW	1	dd	48	77	5	5	-	-	10	10	100	1028.7	0	WSW	1	Zo	43	85	5	5	-	1	1	2500	1	* cm. ddm	cd. d. m. b.	bc	bc		
	Manchester ...	1029.2	-10	SSW	4	dr	46	97	6	6	2	-	4-6	10	2000	1028.7	-6	SSW	2	bc/f	43	97	5	5	3	-	4-6	4-6	2000	1	* ir. id	DD. id.	bc	bc	
10	Spurn Head ...	1027.6	-16	WSW	5	bc	48	75	6	7	4	-	4-6	4-6	4000	1027.5	0	WSW	3	Zo	46	85	6	4	-	4-6	4-6	2500	0	2	bc. m.	cm.	cm	c	
	Catterick ...	1026.6	-18	W'S	4	bc	49	65	8	1	-	9	2-3	4-6	1800	1026.6	-2	WSW	2	Zo	45	85	7	5	3	-	2-3	9	2500	1	3	cm. m. b.	bc	c	c
	Tynemouth ...	1026.2	-12	w	2	bc	48	75	7	2	3	1	4-6	4-6	2500	1024.9	-4	WSW	4	Zo	47	75	6	5	-	10	10	1500	1	3	cm. b.	bc	bc	c	
11	St. Abbs Head	1023.6	+2	SW	3	c	44	75	8	5	7	-	4-6	9	2500	1021.7	-4	SW	4	c	44	85	8	5	4	-	7-8	9	2500	0	2	bc	c	c	c
	Leuchars ...	1021.5	-16	SW	4	Zo	44	92	6	6	7	8	4-6	9	2000	1020.5	-4	WSW	2	Zo	42	92	6	5	-	2-3	2-3	2500	1	* bc. m.	cir. c. b. m.	bc	bc		
	Beaufort (Abbots L.)	1023.5	-14	SW	3	c/pr	47	85	7	8	-	-	9	9	1400	1021.8	-6	WSW	3	ir. r.	47	92	6	5	2	-	9	9	1000	1	* cm. cpr	cpr. r.	cir. c.	cir. r.	
	Esdalemuir ...	1025.3	-12	SW	4	c	40	92	6	5	-	-	10	10	800	1023.7	-8	SW	4	ir.	43	87	6	5	-	10	10	800	1	* bc	bc	cir. c.	cpr. c.		
Point of Ayre	1027.6	0	w	3	c	49	85	8	5	4	2	4-6	9	2500	1025.9	-4	W'S	4	c	48	92	8	8	-	9	9	2500	0	3	bc	bc	bc	bc		
13A	Tiree ...	1021.0	0	w	4	c	47	85	7	8	1	-	4-6	9	1800	1019.4	-10	WSW	4	co. r.	49	97	7	-	2	-	10	10	1500	1	5	cpr	oprc	cir	oprc
	Stornoway ...	1017.8	+6	SW	5	c	45	85	8	2	7	5	7-8	9	2000	1016.3	-14	SSW	4	bc	46	85	7	8	-	4-6	4-6	2500	1	2	co. r. p.	bc	bc	bc	
16	Dalwhinnie ...	1021.1	-2	WSW	3	pr	42	85	7	5	-	10	10	1500	1020.1	-6	SW	2	c	40	85	7	5	-	4-6	4-6	2500	1	1	pr	pr	pr	pr		
	Aberdeen ...	1020.1	-2	SW	3	pr	44	85	6	5	7	8	4-6	9	2400	1019.2	-2	SW	1	Zo	43	85	6	5	7	-	2-3	4-6	2600	1	2	co. r.	ir. c. bc	bc	bc
16	Wick ...	1017.2	-7	WSW	4	c/pr	44	85	8	8	4	9	2-3	7-8	3000	1015.8	-10	WSW	3	c/pr	41	85	8	4	4	8	2-3	9	2500	1	7	cir. p. r.	cpr. c	co. r.	co. r.
	Sumburgh ...	1015.5	-6	WNW	6	e	47	85	8	8	1	-	7-8	9	2000	1012.3	-2	WSW	4	bc/pr	46	92	8	8	-	2-3	2-3	2500	1	5	co. r. p. r.	pr. p. r.	co. r.	co. r.	
17	Blacksod Point...	1026.9	-4	W'S	4	c	52	85	7	5	-	10	10	2500	1025.2	-12	WSW	4	c	50	92	7	-	1	-	0	10	-	0	0	0	0	0	0	
	Malin Head ...	1023.8	-6	SW	3	pr	49	85	7	5	-	9	7-8	7-8	1500	1022.5	-9	w	4	c/pr	49	85	6	5	-	9	9	800	1	5	pr	pr	pr	pr	
18																																			

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 5th Dec. 18h. G.M.T.				01h. G.M.T. 6th Dec. 07h. G.M.T.					
III	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN
109	37	25854	22585				52	22745	22568
115				51	02844	24586	52	62834	20567
203	8-	02838	20628	5-	02838	20588	6-	64738	19768
206	53	02864	24227	50	02854	22124	57	62854	56467
210	57	02964	20367	54	01853	52584	5-	22855	18466
220	80	02858	24485	50	81547	21468			
230	87	25854	56587	52	02854	19488	62	61644	51568
245	57	05644	22327	50	05663	18263	57	05643	18125
260	74	10864	21515	57	22754	55885	53	22743	53864
278	54	01753	23414	57	02743	23568	51	02744	20368
279	83	02755	21316	5-	52657	20457	5-	21648	21451
285	10	01744	24414	23	02745	23587			
288	20	05653	20263	07	02890	20226	52	02753	54328
275	54	02854	23425	61	51644	24366	51	61747	21528
301	50	02754	24255	40	00761	24311	53	02754	22426
321	57	05663	23314	57	05852	20124	07	05690	21326
299	53	05543	24214	50	05546	24216			
292	51	17565	20125	07	02890	21226	51	05643	21328
310				--	01626	20246			
617	04	05590	22424	5-	51556	24256	57	08463	22228
333	52	21724	22257	10	00351	20111	51	02843	22428
334	--	53437	24358	--	02645	28216	--		
340	57	02846	22367	57	21555	00066	07	02790	18328
136	5-	05568	21328	5-	22658	21368	5-	22538	20368
336	52	02753	20328	62	62526	20368			
350	5-	05677	21327	5-	61657	19367			
368	5-	02755	20428	5-	51638	2458	5-	62638	22368
379	57	05664	20327	57	63657	20467	5-	21538	20568
390	5-	08467	22347	5-	47367	22227	5-	46348	23458
382	5-	02777	22327	57	61666	23328			
435									
430	5-	05568	20248	5-	05568	26328	5-	05668	22228
409	5-	02768	18328	5-	51648	19358	5-	51658	18358

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C₁, C₂ - Form of low and medium cloud—See page 1.
V - Visibility—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 6th December

1 S.E. England	Strong southwest winds, gale at times on the coast and probably locally inland, to-morrow. Cloudy or dull; some slight occasional rain or drizzle: mild.
2 E. England	
3 E. Midlands	
4 W. Midlands	
5 S.W. England	
6 South Wales	
7 North Wales	Strong to gale, southwest winds; rain at times but fairer periods especially to-day. Mainly mild but becoming colder later.
8 N.W. England	
9 N. Midlands	
10 N.E. England	
11 S.E. Scotland	Strong to gale southwest wind, moderating, becoming variable. Cloudy; rain at times; mainly mild.
12 S.W. Scotland & Isle of Man	
13A. W. Scotland	
13B. N.W. Scotland	South to southwest gale, severe at times, moderating to-morrow. Mainly cloudy; occasional rain, hail and sleet: snow on hills later. Becoming colder.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	Strong to gale, southwest winds, veering west to-morrow, becoming squally. Rain at times; fairer periods at first. Mild today, becoming colder.
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 origins 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.

A deep depression centred just northwest of Scotland is moving east-northeast and will be followed by another depression from the Atlantic which will cross the British Isles. Stormy, unsettled weather with gales will prevail generally, but rainfall will be small in amount in East and Southeast England.

FURTHER OUTLOOK.

Continuing unsettled and stormy; colder in most districts with snow showers in Scotland.
 Gale warning issued 2245h. 5.12. in districts 13B, 16., issued also at 0215h 6.12. in districts 7, 8, 11, 12, 13A, 15, 17, 18, 19, 20 (part of); issued 0500h 6.12. in districts 6, 10, 20 (part of); issued 0910h 6.12. in districts 1, 2, 5.

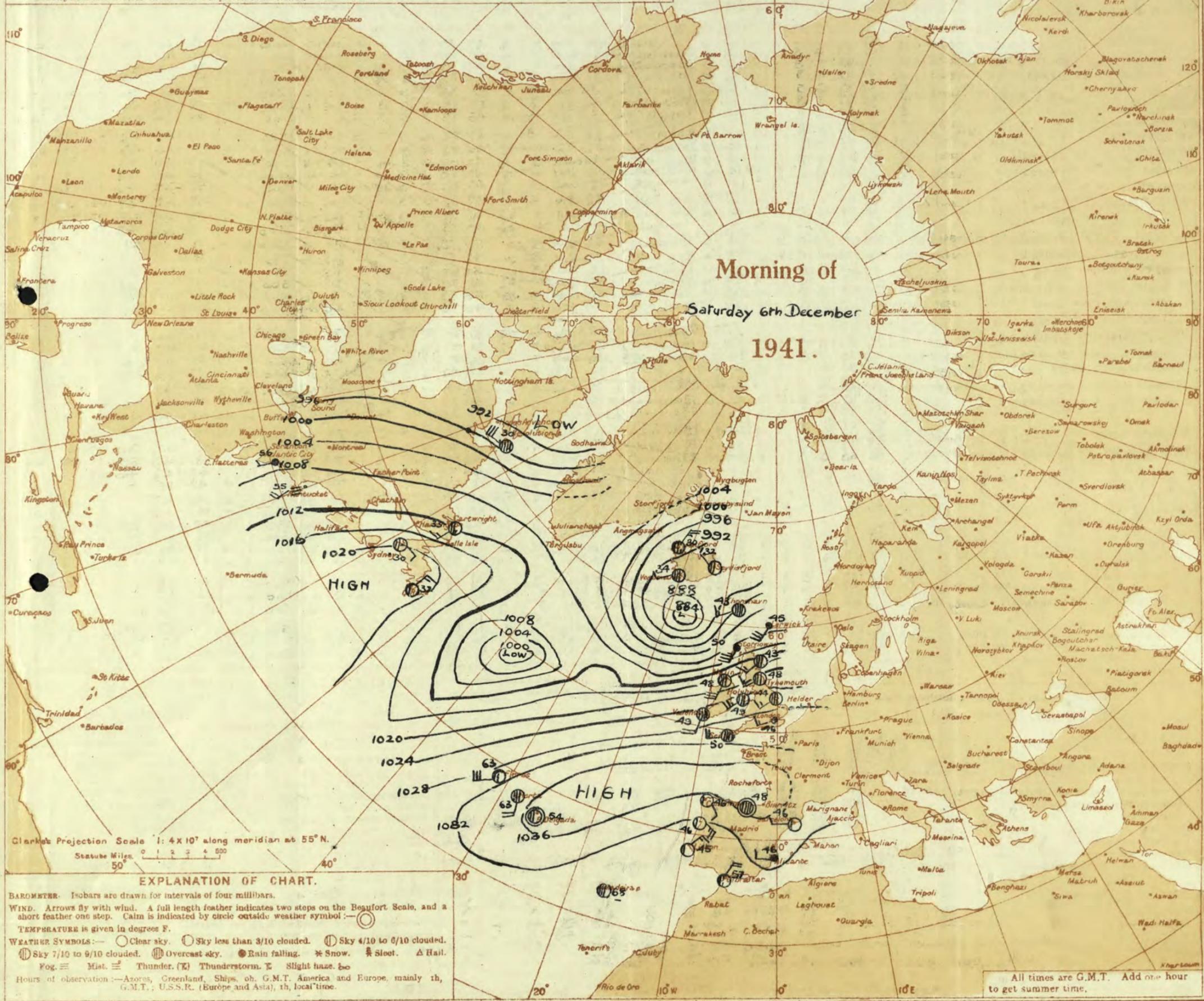
Forecasts issued at 1030 G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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 of 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.



Glarke's Projection Scale 1:4x10⁷ along meridian at 55° N.
 Statute Miles 0 100 200 300 400 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol: —○
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: —○ Clear sky. ○ Sky less than 3/10 clouded. ⊕ Sky 4/10 to 6/10 clouded. ⊕ Sky 7/10 to 9/10 clouded. ⊕ Overcast sky. ● Rain falling. * Snow. † Sleet. Δ Hail. Fog. ☁ 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.

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

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

PAST 24 HOURS.

Main table with columns for District, Stations, Barom., Wind, Temp., Humid., Cloud, and various weather metrics for 20 stations.

LONDON OBSERVATIONS table with columns for Day, Night, Min., Max., and other weather data for various London locations.

FOREIGN OBSERVATIONS table with columns for Stations, Barom., Wind, Temp., Humid., and other weather data for Reykjavik, Lisbon, Madrid, Cairo, Toronto, and Washington.

EXPLANATION OF FIGURES, LETTERS, etc. section providing details on barometric tendency, wind scale, and other symbols used in the report.

EXPLANATION OF FIGURES, LETTERS, etc. section providing details on rain scale, visibility scale, and other symbols used in the report.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
Sunday 7th December 1941.
No. 29,235

OBSERVATIONS at 13h. G.M.T. 6th December														OBSERVATIONS at 18h. G.M.T. 6th December														PAST 24 HOURS.							
DIRECTION.	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.					
				Dir.	Force. 0-12 (4)					Form.	Amount. 0-10 (10)	Height of Base. (feet) (14)	Form.	Amount. 0-10 (24)			Height of Base. (feet) (28)	7h.-13h. 6th. (37)					13h.-18h. 6th. (38)	18h. 6th to 1h. 7th. (39)	1h.-7h. 7th. (40)										
1	London (Kew) ...	1015.1	-60	SW'S	4	ir	48	85	7	5	2	-	9	10	1500	1006.7	-46	SW	6	ir	50	92	6	2	-	9	10	1500	1	4	cm.cir	cr.cir	cr.cir	ir.cir	
	Croydon ...	1016.3	-56	SW	5	e	48	85	7	5	2	-	9	10	1900	1007.8	-46	SW	5	ir	50	92	6	2	-	9	10	1500	1	4	c.id.c	cr.cir	cr.cir	ir.cir	
	S. Farnborough	1016.0	-50	SW	6	dod	47	85	6	5	2	-	9	10	1200	1007.9	-50	SW	5	ir	50	92	6	2	-	9	10	1500	1	4	cd.dom	do.mac	cr.cir	ir.cir	
	Boscombe Down	1015.8	-58	SW'S	6	ir	50	85	7	6	1	8	4.6	9	1400	1008.1	-42	SW	6	ir	50	85	6	2	-	9	10	1300	1	4	cr	cr.cir	cr.cir	e	
	Thorney Island	1017.9	-50	SW	5	ir	48	92	6	5	2	-	9	10	800	1010.5	-38	SW	5	ir	50	92	6	2	-	9	10	600	1	4	ir.cir	rr.cir	cr.cir	ir.cir	
	Lympe ...	1019.4	-42	SW	6	dod	48	92	6	5	2	-	10	10	400	1011.9	-44	SW	6	ir	47	92	6	2	-	9	10	400	1	4	cm.rad	cm.rad	cr.cir	ir.cir	
	Manston ...	1017.3	-50	SW'S	6	dod	46	85	6	5	2	-	9	10	800	1009.4	-34	SW	6	dod	47	85	5	2	-	10	10	1200	1	4	morado	cm.dod	cm.dod	cm.dod	
2	Shoeburyness ...	1016.4	-50	SW'S	5	e	49	75	7	5	2	-	7.8	10	1200	1008.8	-44	SW	5	ir	48	92	5	2	-	9	10	1100	1	4	cm.cir	cr.cir	cr.cir	ir.cir	
	Felixstowe ...	1015.3	-48	SW	6	e	48	75	7	5	2	-	10	10	2500	1006.3	-52	SW	6	ir	49	92	5	2	-	10	10	1400	1	4	cm.c	cr.cir	cr.cir	ir.cir	
	Gorleston ...	1013.3	-46	SW'S	6	z	48	75	7	5	2	-	10	10	2000	1004.6	-44	SW	6	ir	49	85	5	2	-	10	10	1500	1	4	cz	cr.cir	cr.cir	ir.cir	
	Mildenhall ...	1012.6	-58	SW'S	6	e	48	85	7	5	2	-	7.8	10	1200	1003.5	-44	SW'S	6	ir	50	85	7	5	2	-	9	10	2300	1	4	c	cr.cir	cr.cir	ir.cir
	Cranwell ...	1007.6	-56	SW	6	ir	48	75	7	5	2	-	9	9	1000	1001.8	-2	WN	6	ir	46	92	6	2	-	9.6	10	1000	1	4	cm.cir	cr.cir	cr.cir	ir.cir	
3	Birmingham	1009.6	-54	SW	5	ir	46	75	6	6	-	-	10	10	800	1003.7	-26	WNW	3	ir	47	92	6	2	-	10	10	800	1	4	cr	cr.cir	cr.cir	ir.cir	
	Upper Heyford	1012.4	-46	SW	5	e	46	75	7	5	7	-	7.8	10	1500	1004.9	-44	SW	5	ir	48	92	6	2	-	7.8	10	1000	1	4	c	cr.cir	cr.cir	ir.cir	
4	Ross-on-Wye ...	1010.5	-60	SW	6	dod	49	85	6	6	1	-	9	10	800	1003.2	-48	SW	6	ir	47	92	6	2	-	10	10	800	1	4	cd	cr.cir	cr.cir	ir.cir	
5	Hartland Point	1012.9	-36	WSW	7	r	49	92	6	6	2	-	7.8	10	800	1004.3	-24	WSW	7	ir	51	92	6	2	-	7.8	10	800	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Bristol ...	1013.7	-40	SW	5	e	50	75	7	5	7	-	10	10	1800	1005.9	-44	SW	6	ir	50	92	5	2	-	9	10	600	1	4	c	cr.cir	cr.cir	ir.cir	
	Portland Bill ...	1016.7	-52	SW	6	e	52	75	7	5	7	-	7.8	10	2500	1009.4	-34	SW	6	ir	52	92	5	2	-	10	10	2500	1	4	oe	cr.cir	cr.cir	ir.cir	
	Plymouth ...	1017.8	-42	SW	7	z	52	85	6	5	2	-	7.8	10	1500	1009.8	-44	SW	8	ir	51	92	6	2	-	9	10	1000	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	The Lizard ...	1017.8	-50	WSW	7	ir	52	85	7	5	-	-	10	10	1500	1010.1	-48	WSW	7	ir	51	92	7	5	-	10	10	1000	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Soilly (St. Mary's)	1017.3	-42	W'S	6	ir	51	92	6	5	-	-	10	10	1000	1009.0	-64	WSW	6	ir	52	92	6	2	-	7.8	10	1000	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Guernsey ...	1017.3	-42	W'S	6	ir	51	92	6	5	-	-	10	10	1000	1009.0	-64	WSW	6	ir	52	92	6	2	-	7.8	10	1000	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
8	Pembroke ...	1010.0	-46	SW'S	9	ir	52	92	6	6	2	-	10	10	1500	1004.4	-6	WNW	5	ir	48	92	5	2	-	7.8	10	1500	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Holyhead (Valley)	1003.1	-46	WSW	8	ir	52	92	6	6	2	-	9	10	500	1001.8	-14	WNW	5	ir	46	92	5	2	-	7.8	10	2000	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Chester (Sealand)	1003.9	-66	SW'S	6	ir	52	85	6	5	2	-	4.6	10	600	1001.9	-8	W	3	z	47	75	6	5	3	-	4.6	7.8	2000	1	4	cm.cir	cr.cir	cr.cir	ir.cir
8	Manchester ...	1004.3	-58	SW	6	ir	48	92	6	6	2	-	9	10	400	1001.9	-4	SW'S	3	z	45	85	6	4	6	-	2.3	4.6	3500	1	4	cr	cr.cir	cr.cir	ir.cir
10	Spurn Head ...	1005.2	-66	SW	6	eg	48	85	7	6	2	-	7.8	10	1500	1000.1	-4	SSW	3	c	47	85	7	6	2	-	7.8	10	1500	1	4	eg	cr	cr	c
	Catterick ...	999.0	-78	SW'S	5	ir	50	75	6	6	2	-	2.3	10	800	999.8	-8	W	5	c	44	65	7	5	3	-	7.8	10	2500	1	4	cr.cir	cr.cir	ir.cir	ir.cir
	Tynemouth ...	997.4	-60	SW	6	ir	52	85	6	6	2	-	10	10	1500	996.0	-6	W	6	bcg	45	75	7	2	-	2.3	2.3	2500	1	4	cp	cr	cr	bcg	
11	St. Abbs Head	993.2	-32	SW	7	cr	40	75	8	5	4	-	4.6	9	1000	991.0	-16	W	7	bcg	41	85	8	4	-	2.3	2.3	2500	1	4	cr	cr	cr	bcg	
	Leuchars ...	991.6	-24	WSW	7	ir	43	92	7	8	-	-	9	9	1200	989.3	-12	WSW	6	cr	40	85	9	3	-	7.8	7.8	1500	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Beafrew (Abbots L.)	995.2	-8	W	5	eg	46	75	7	9	-	-	4.6	7.8	1000	993.6	-14	WNW	5	b	42	75	8	2	-	1	1	1800	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Eskdalemuir ...	997.1	-30	W	5	eg	43	85	8	6	7	-	4.6	9	450	995.4	-12	WSW	4	pr	39	85	6	2	-	10	10	450	1	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Point of Ayre ...	1000.2	-24	WNW	7	eg	49	85	8	8	1	-	7.8	9	3000	998.3	-10	WNW	7	bc	46	75	8	4	4	-	2.3	2.3	3000	1	4	cr.cir	cr.cir	ir.cir	ir.cir
13A	Tiree ...	993.6	0	WNW	7	bc/pr	46	65	7	8	-	-	4.6	4.6	1500	992.9	0	WNW	7	bc/pr	43	65	7	8	-	7.8	7.8	1500	1	6	cr.cir	cr.cir	ir.cir	ir.cir	
13B	Stornoway ...	983.0	-52	WSW	8	cr	42	85	7	5	7	-	7.8	9	1500	983.4	-26	WSW	8	cr	40	85	7	8	7	-	7.8	9	1500	2	5	cr.cir	cr.cir	ir.cir	ir.cir
15	Dalwhinnie ...	990.0	-10	SSW	5	ir	38	85	7	5	9	-	7.8	9	2500	990.4	+20	SW	5	ir	35	85	6	5	-	9	9	1500	4	4	cr.cir	cr.cir	ir.cir	ir.cir	
	Aberdeen ...	987.7	-18	WSW	5	bc	49	55	9	1	7	-	1	2.3	1500	986.5	-6	W'S	4	b	40	75	8	5	-	3	7.8	7.8	2900	1	4	cr.cir	cr.cir	ir.cir	ir.cir
	Wick ...	980.8	-38	SW	8	ir	42	92	7	5	-	-	10	10	700	979.9	-22	WSW	6	cr	38	85	7	3	6	-	7.8	7.8	1000	1	4	cr.cir	cr.cir	ir.cir	ir.cir
16	Sumburgh ...	974.2	-102	WSW	9	cr	45	85	8	9	-	-	7.8	7.8	1200	969.3	-26	WNW	10	pr	45	85	8	8	-	7.8	7.8	1500	1	4	cr.cir	cr.cir			

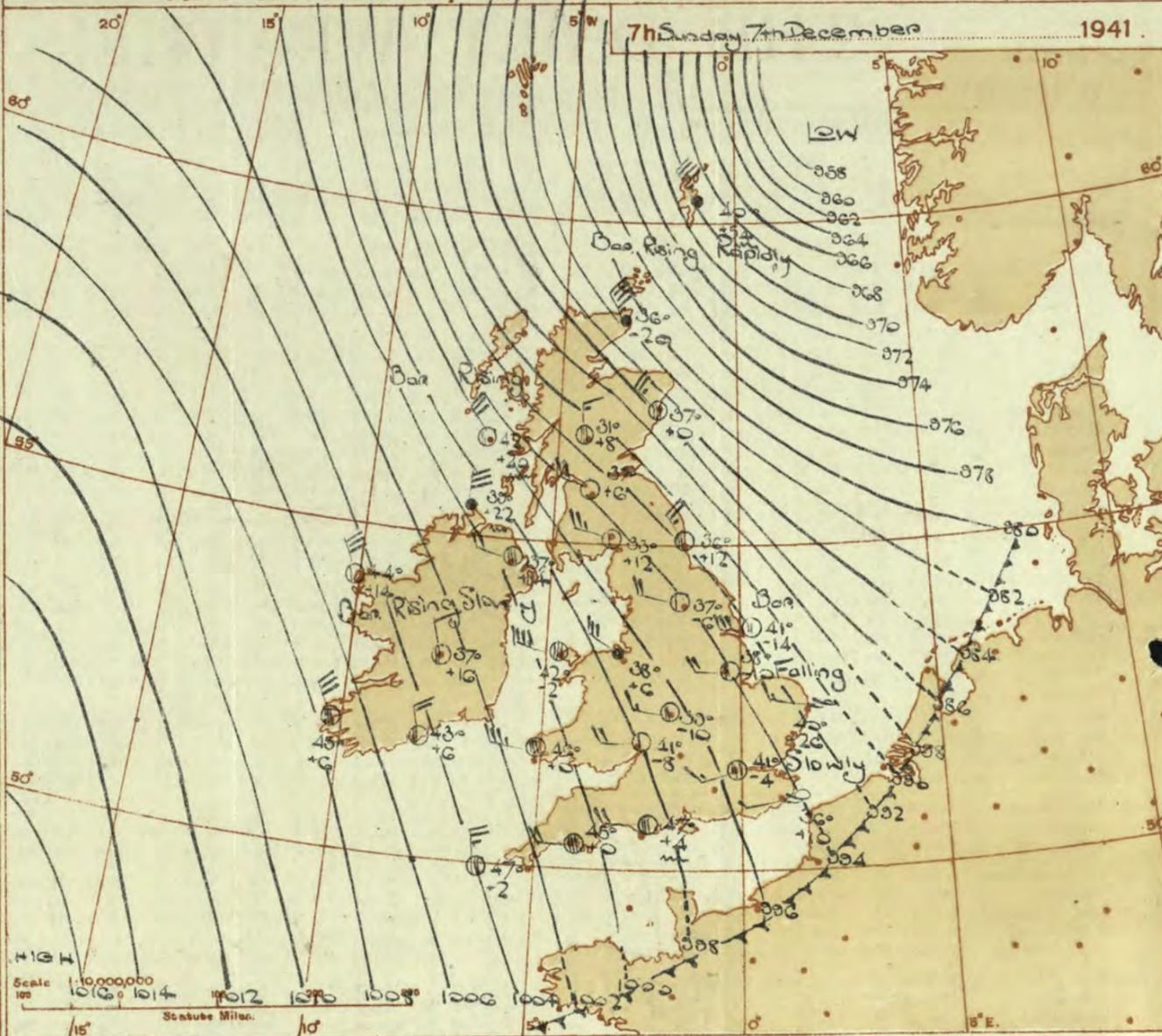
AIR MINISTRY, METEOROLOGICAL OFFICE.

7th Sunday 7th December 1941.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 7th Dec.				18h. G.M.T.				01h. G.M.T. 8th Dec.				07h. G.M.T.			
III	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN
10991	6648	5588	30	8265	5788	30	8254	5788	30	8557	6088	30	8557	6088	30
115				8273	5787	52	8273	5787	52						
2036		2478	6-	8578	2478	6-	8286	2478	6-						
20683	2585	5587	3-	0185	5584	3-	2785	5778	3-	8887	6178	3-	8887	6178	3-
21087	1085	5787	3-	2584	5368	3-	8588	5888	3-	2778	5288	3-			
22080	2774	2486								80	0364	2772			
2303	2784	9048	8-	8647	5268	26	2564	5268	8-	2764	6168	8-			
24534	0195	2363	30	8184	5654	50	0085	2358	5-	0285	2642	5-			
26097	0285	5565	80	0565	2253	54	0176	1931	57	0276	2431	57			
27883	0284	5865	8-	0284	5761	8-	2585	6248	8-	8184	2268	8-			
27987	2285	5656	40	0184	5564	20	0184	2248	50	0085	2548	20			
285				27	2574	2468									
28862	6365	5148	50	0076	2236	53	0285	2142	53	0175	2224	53			
27590	8284	5984	37	2574	5258	8-	8174	5248	30	0184	2638	30			
30162	6365	5596	20	0174	5768	20	0175	5883	20	2574	6148	20			
32162	5862	5468	87	2564	2428	54	0565	2442	45	0276	5848	45			
2988	5264	2285	50	0164	2231	51	0564	2231	50						
29262	6264	5258	51	0195	2346	53	0286	2325	50	0185	2728	50			
310	6462	2068													
614	6163	2058	62	6462	5758	03	0565	2422	8-	2564	2628	8-			
33362	6274	1868	5-	0275	2436	21	0285	2651	2-	8184	6162	2-			
334	6645	2668	--	0364	2647										
34062	6285	5468	07	2278	2236	07	0285	2632	5-	8874	2848	5-			
1365	0273	1967	5-	6174	2078	5-	0278	2348	17	0175	2442	17			
33662	6562	2468	62	6452	2058										
35082	0273	5268	62	6264	5258	02	6264	2468	07	0172	2034	07			
36852	6164	5378	62	6463	5478	50	0565	2526	30	2572	2638	30			
2795	0274	2052	6-	6463	5568	57	2174	3036	03	0285	2822	03			
39052	2253	5368	5-	6253	5368	62	6453	2636	07	0565	2546	07			
38257	0285	5562	52	6274	2058	52	6275	2728	57	0286	2232	57			
4386	0264	5888								62	0365	3042			
4305	6258	5368	62	6264	5768	62	6653	5678	07	0272	2746	07			
40062	6462	2068	52	6163	2088	21	0275	2348	2-	0285	6188	2-			

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_h - Height and amount of low cloud - See M.O. 252.
N - Total amount of cloud - See M.O. 252.
C_u, C_m - 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).



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th December, 1941

1 S.E. England	Moderate or fresh N.W. winds, strong on coast and at exposed places, gale on coasts at first in the North; Variable cloud today, clearing at night in many areas; Occasional showers of rain in South, wintry showers in North especially on high ground and on coasts with northerly aspect; cold, frost at night.
2 E. England	
3 E. Midlands	
4 W. Midlands	
5 S.W. England	
6 South Wales	
7 North Wales	
8 N.W. England	
9 N. Midlands	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man	
13A. W. Scotland	Wind N.W. fresh or strong inland, gale at exposed places and severe gale at first on northern coasts; frequent wintry showers; cold, frost at night.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	As 1-12.
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 above the ground
 = Occluded Front (or Occlusion)
 = Warm Occlusion
 = Cold Occlusion
 = Lines of Frontogenesis
 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 very deep depression to eastward of Shetland is moving slowly east and a ridge of high pressure in long. 20 degrees west is also moving slowly east. A feeble trough follows the ridge. Cold N.W. winds occur generally and there will be severe gales in the North of Scotland with frequent wintry showers. Elsewhere there will be fair periods and occasional showers. Frost will occur in many places.

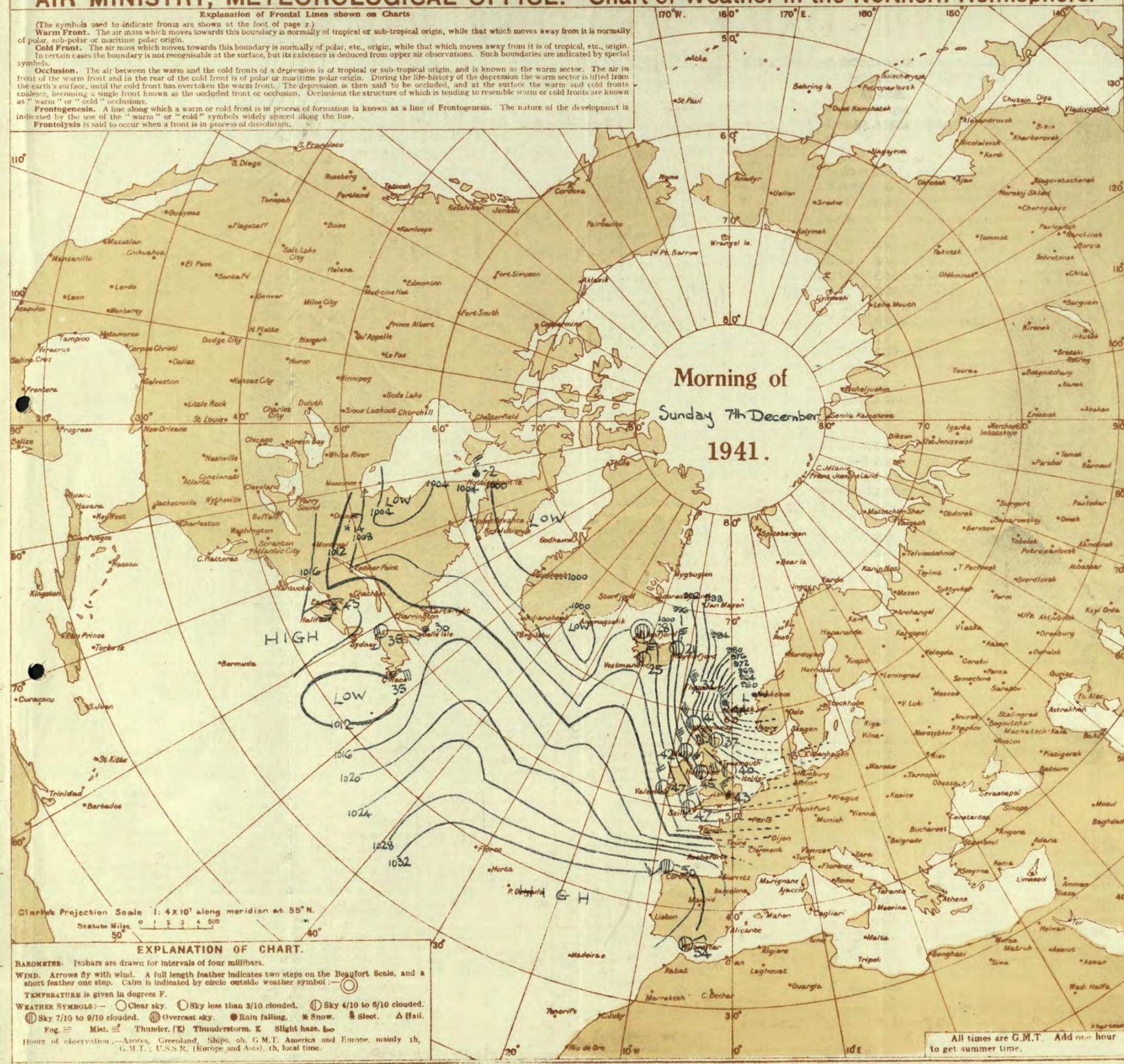
Fair but cold in ~~W. Scotland~~ **W. Scotland** spreading southeast across Scotland.
 Warning of N.W. gale in operation in districts 2, time of issue 0215h on 6.12.41. in districts 9, 10, 11, time of issue 0500h on 6.12.41. in districts 7, 8, 12, 13A, 15, 18 at 0215h on 6.12.41. in districts 13B & 16. at 2245h on 5.12.41.

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.
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Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



Clarke's Projection Scale 1: 4 x 10⁷ 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. (⚡) 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.

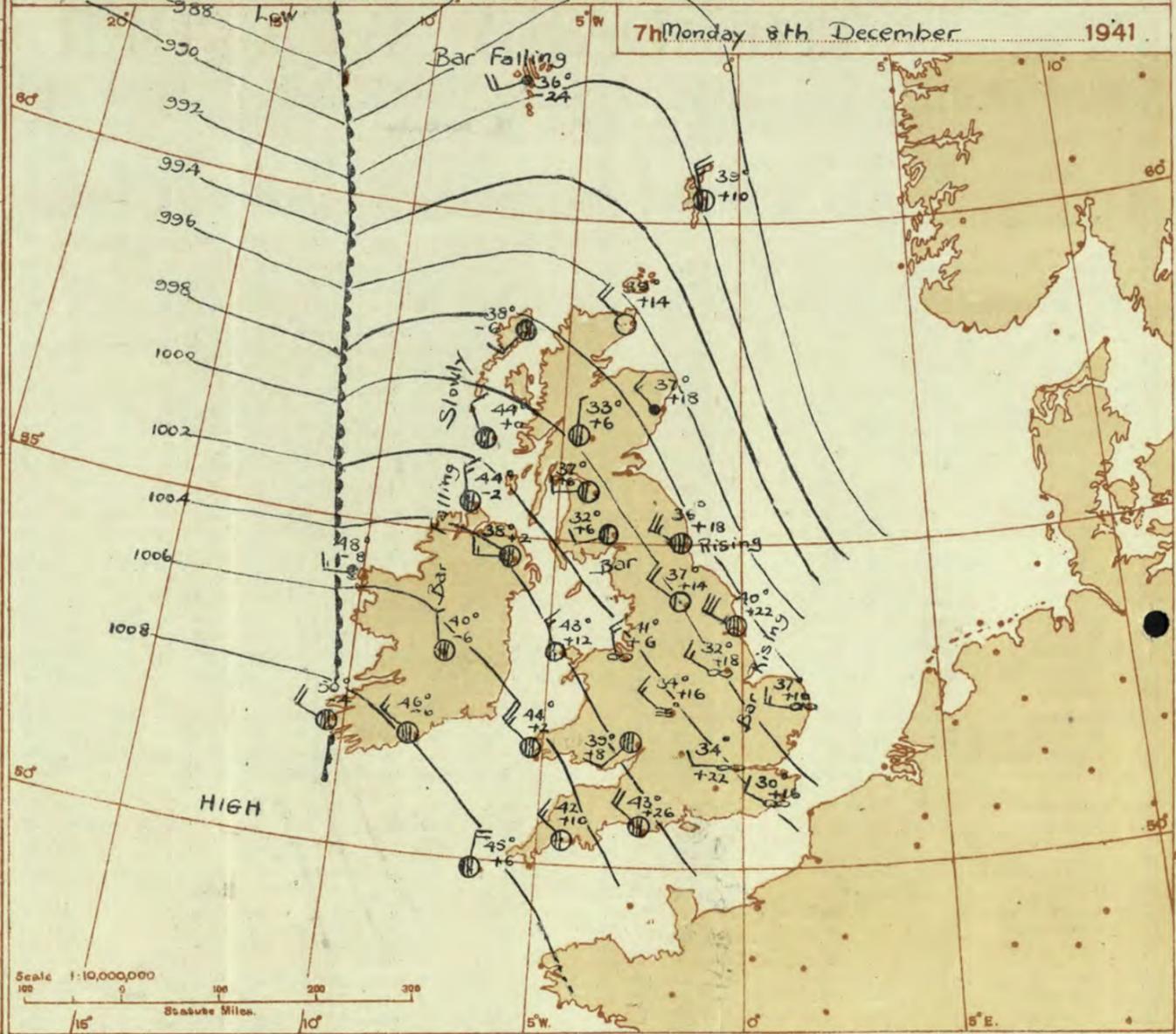
All times are G.M.T. Add one hour to get summer time.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 7th Dec.		18h. G.M.T.		01h. G.M.T. 8th Dec.		07h. G.M.T.										
III	C _M	ww	Vh _N	DDFWN	C _M	ww	Vh _N	DDFWN	C _M	ww	Vh _N	DDFWN	C _M	ww	Vh _N	DDFWN
109	9	86537	62987	9	25548	63888	5	03758	30728	5	02767	28427				
115	57	88834	63987	52	88834	65887	57	02834	32586	57	02844	28427				
203	9	85838	28788	9	81838	28788	5	03838	28728							
206	87	26745	61487	9	83748	28488	8	02856	28226	5	02856	26286				
210	9	83637	60887	8	02747	61787	8	02758	58688	8	02855	57426				
220	80	01854	28714	80	02446	28616										
230	9	26846	61586	8	02746	30586	84	01754	30484	5	02867	30417				
245	86	14855	61686	9	01854	61614	80	01963	65413	5	02966	60517				
260	70	01965	26315	57	02755	22325	5	02867	24317	50	01761	26314				
278	36	27845	62786	3	27843	62683	8	02847	62627	54	01865	26425				
279	70	00852	26513	04	00850	26502	06	00850	26403	46	01861	26264				
285																
288	10	00851	59401	47	01775	58416	5	02777	60427	03	02790	27327				
275	3	25845	62485	26	25844	62485	37	25854	30485	57	01853	28215				
301	30	00742	62682	20	00741	61781	20	00753	61613	4	02753	62315				
321		01790	24414	50	05651	26401	03	05650	60414	04	05650	26413				
290	54	01752	26303													
292	14	01962	60413	40	00963	58403	53	01962	26413	53	01963	26415				
310																
314	10	01652	26314	00	05650	24410	04	05650	30101	50	05651	26104				
333	2	81857	60527	9	27848	60685	2	01852	30582	8	81857	30417				
334																
340	9	81637	61487	3	24674	59474	07	01850	30213	07	05650	26212				
13600		05690	26512	50	00752	26502	5	02887	25617	5	02877	27627				
336																
350	13	05651	5483													
368	80	25853	26413	80	00753	81583	80	81745	28285	54	02755	24286				
370	20	01852	28512	50	01854	26484	20	00850	28470	03	06790	28411				
390	8	05665	26585	4	25655	26415	00	05650	26500	04	05650	24201				
382	16	01853	60513	54	01863	24413	54	00761	25301	54	00861	26302				
438																
430	5	01945	28425	00	00850	27410	40	00761	25381	84	00751	24302				
400	80	01845	63585	50	01844	63584	8	02855	63525	86	02854	64585				

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_M - 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. 8th December 1941
1 S.E. England	Moderate North West winds backing westerly tomorrow and freshening. Fine today; cloudy with some rain or drizzle tomorrow; cold today, becoming milder.
2 E. England	
3 E. Midlands	
4 W. Midlands	Wind north-west moderate backing west. Fair most of today then rain; becoming slowly milder.
5 S.W. England	
6 South Wales	
7 North Wales	Wind westerly backing southwest, increasing fresh perhaps strong on coasts later, fair at first, cloud increasing; occasional rain or drizzle by tonight; becoming milder.
8 N.W. England	
9 N. Midlands	
10 N.E. England	Wind backing southwest becoming fresh to strong, gale probable on coasts; becoming cloudy with occasional snow or sleet, probably turning to rain; becoming milder.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Wind backing south west increasing strong to gale; wintry showers or occasional snow sleet and rain later.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	Winds westerly, moderate or fresh, becoming strong perhaps gale on northern coasts; cloudy or dull; occasional rain or drizzle; 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
 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.
A ridge of relatively high pressure over the British Isles is moving east-southeast and will decline with the advance east-southeast of a deepening depression north of Iceland. Weather will be fine in East and South England today but unsettled conditions with some rain will spread across the country. There will be snow locally in Scotland at first but conditions will become milder generally.

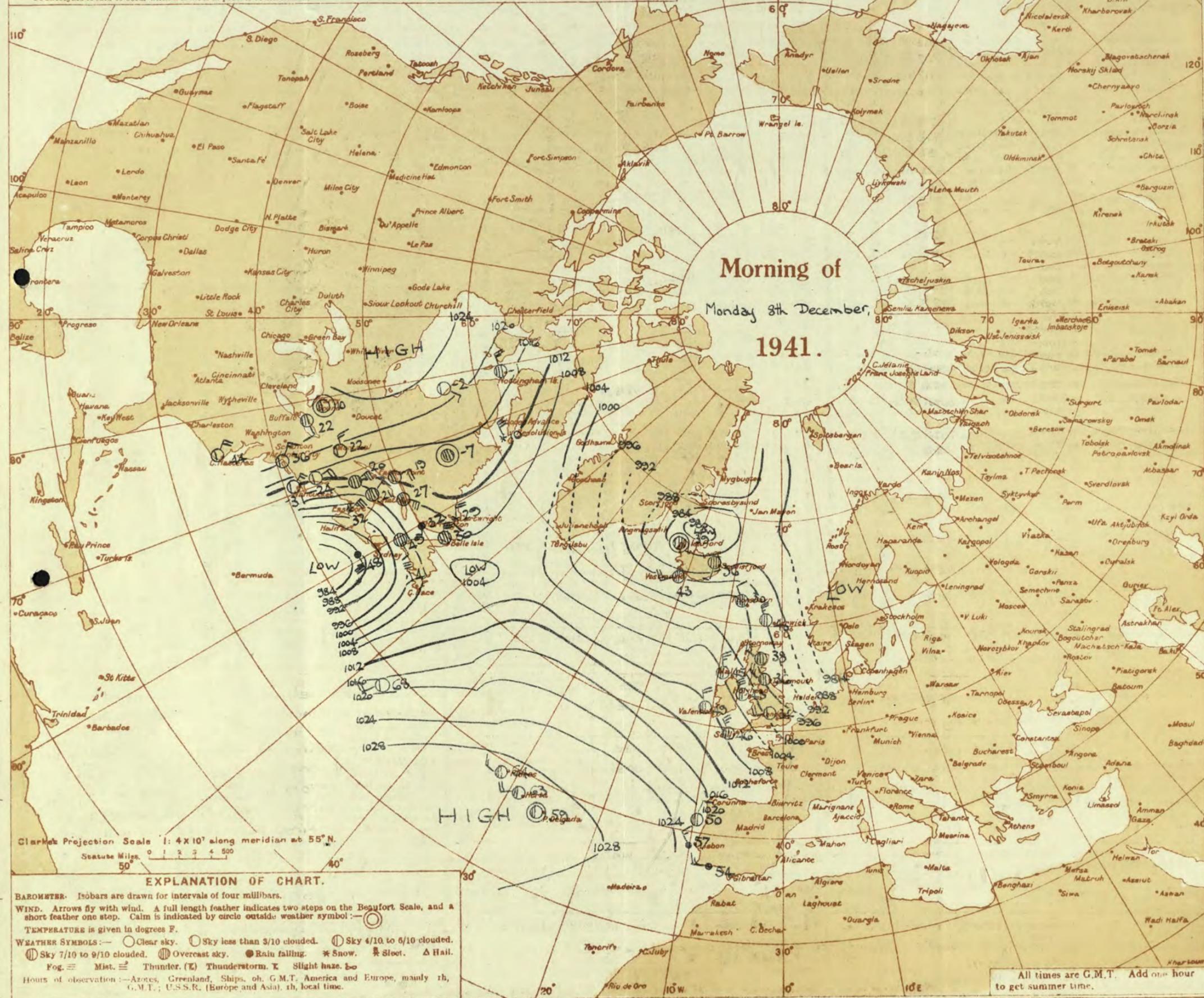
FURTHER OUTLOOK.
Continuing unsettled; probably rather disturbed generally
Gale warning in operation in district 16
Time of issue 2245 on 5-12-41

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

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Clark's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500
 50

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 Fog. ☁ Mist. ⚡ Thunderstorm. ☁ Slight haze. ☁
 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.

Main table of weather observations at 1 hr. G.M.T., 7 hr. G.M.T., and Past 24 Hours. Columns include District, Stations, Barom., Wind, Weather, Temp., Humid., Cloud, and Temperature/Rainfall/Sunshine for the last 24 hours.

LONDON OBSERVATIONS table with columns for Day, Night, 24 hrs. ended 9h, and various weather codes for different London locations.

FOREIGN OBSERVATIONS table with columns for Stations, Barom., Wind, Weather, Temp., and Humid. for various international locations.

EXPLANATION OF FIGURES, LETTERS, etc. section containing detailed codes for atmospheric pollution, wind scale, and surface visibility.

**AIR
 MINISTRY.**

THE DAILY WEATHER REPORT
 OF THE METEOROLOGICAL OFFICE, LONDON.

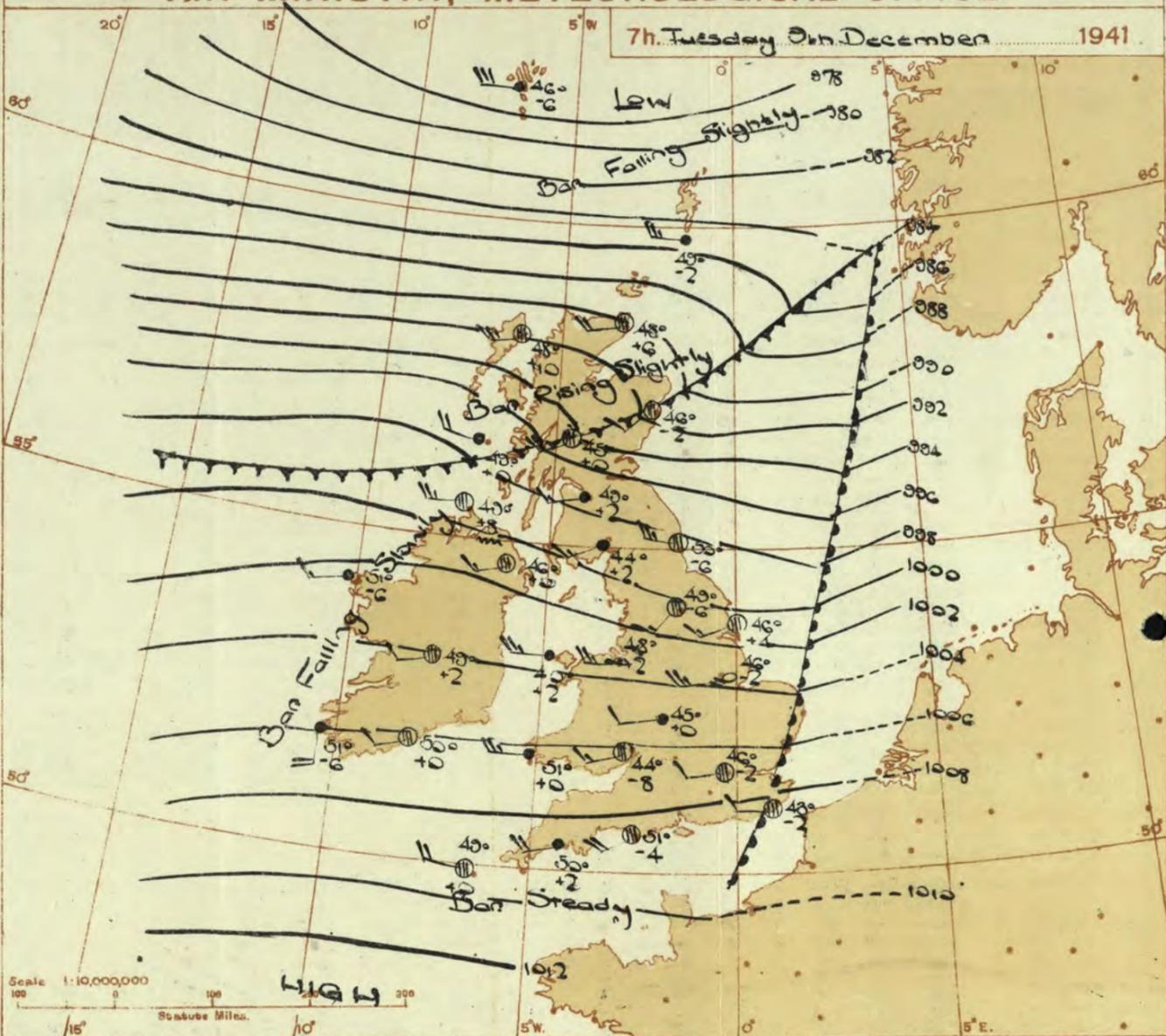
OBSERVATIONS at 13h. G.M.T. 8th December														OBSERVATIONS at 18h. G.M.T. 8th December														PAST 24 HOURS.							
Distributor	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 9 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 9 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.	Force. 0-12 (4)				Form.	Amount.	Height of Base. (feet) (14)	Dirac.			Force. 0-12 (18)	Form.				Amount.	Height of Base. (feet) (28)	7h.-13h. ... 8h... (37)	13h.-18h. ... 8h... (38)			18h. 8h...to 1h. 9h... (39)	1h.-7h. ... 9h... (40)								
1	London (Kew)...	1006.0	+8	WNW	1	41	85	5	-	-	3+	3+	2500	1007.4	+12	SWW	2	41	85	5	5	-	-	7-8	7-8	2500	1	*	b, c, x, c, z, o	c, z, c, m, o	c, b, c, e, m, o	c, i, d, e, m, o			
	Croydon ...	1005.9	+10	WNW	3	40	75	5	3	-	4-6	3+	4000	1007.2	+10	SW	2	m	40	85	4	5	-	-	7-8	7-8	3000	1	*	b, m, o, x, b, m	c, m, c, m	c, m, o, m, i, d, o	c, b, c, i, d, o		
	S. Farnborough	1006.6	+10	WNW	3	42	75	7	5	-	3+	3+	4200	1007.8	+12	WSW	3	bc	35	85	6	5	3	-	-	2-3	4-6	4000	1	*	b, c, c	c, b, c, c, m, o, w	b, e, m, o, w	e, w, e	
	Boscombe Down	1007.3	+6	WNW	3	44	75	6	2	-	-	1	7-8	2500	1008.2	+12	WS	3	bc	40	85	7	5	4	-	-	2-3	4-6	5000	1	*	b, c, c	b, c	c, i, r, o, m, o, c, m	b, e, c, i, d, o
	Thorney Island	1006.7	+10	WNW	3	43	75	7	5	-	3+	3+	4000	1008.3	+14	WNW	3	z, o	41	85	5	5	-	-	7-8	7-8	4000	1	*	b, m, o, c	c, b, c	c, m, o, r, i, o	i, d, o, i, r, o, b, o		
	Lympe	1005.7	+6	WNW	3	37	85	4	-	-	0	0	-	1008.0	+16	WN	3	m	37	85	4	-	-	7	4-6	-	-	-	1	§ 3	b, m, o, x, b, m	b, c, c, m	c, m, o, i, r, o	c, m, o, r, i, o	
	Manston	1004.2	-10	NW	4	41	65	6	-	5	1	0	2-3	-	1006.7	+20	WN	3	z, o	36	85	5	-	-	0	9	-	-	1	*	b, c, b, c, z, o	b, c, z, o	c, m, o	c, m, o, i, d, o	
2	Shoeburyness ...	1005.6	+16	WNW	3	42	65	6	-	5	0	2-3	-	1007.0	+12	W	2	m	39	85	4	-	3	-	0	10	-	1	*	b, m, o, b, e, b, m, o	b, m, o, m, c	c, m, p, r, o, c, m	c, m, p, r, o		
	Felixstowe ...	1003.5	+20	WNW	4	40	65	6	5	-	3+	3+	5700	1005.9	+10	W	4	m	37	75	4	5	-	-	3+	3+	4700	1	4	c, c, m, o	c, m, o, c, m	c, m	c, m, b, e, n, o		
	Gorleston ...	1002.3	+18	WNW	4	40	65	6	5	-	10	10	1500	1005.2	+18	W	2	z, o	39	65	5	5	-	-	4-6	4-6	1500	0	2	c, z, o	b, c, z, o	c, z, o, b, e	b, b, c, m, o		
	Mildenhall ...	1004.5	+18	WN	3	41	65	6	5	7	4	1	4-6	4000	1005.2	+14	SWW	4	m	38	85	4	5	-	-	7-8	7-8	4300	0	*	c, b, c, z, o	c, m	c, m, i, r, o, m, o	c, m, o, i, r, o	
	Cranwell ...	1003.8	+4	WN	3	40	65	5	-	5	0	7-8	-	1004.3	+6	SWW	3	m	38	92	4	5	-	-	10	10	2500	1	*	b, c, z, o	b, c, z, c, m	c, m, i, r, o	c, m, o, i, d, o		
3	Birmingham	1005.8	+8	W	2	38	85	4	5	-	10	10	1500	1005.8	+6	WSW	3	m	40	75	4	5	-	-	10	10	2500	4	*	o, r, o	c, m	c	c, i, r, o		
	Upper Heyford	1005.1	+4	WSW	2	38	85	8	5	-	3+	3+	3000	1006.4	+2	WSW	2	z, o	39	85	6	5	-	-	9	9	4500	1	*	b, x, b, c, c	c, i, r, o, m, o	b, e, c, m, o	i, r, o, c, m, o		
	Ross-on-Wye ...	1006.2	0	W	2	44	65	8	5	3	-	1	9+	3000	1006.6	+4	SW	3	e	43	75	6	5	7	-	7-8	7-8	3000	1	*	p, o, c, c	c, b, c, c	b, e, c, m, o	i, r, o, c, m, o	
5	Hartland Point	1008.2	0	NW	3	46	65	9	5	4	5	4-6	4-6	2500	1007.9	-2	WSW	4	c	47	92	7	5	2	-	7-8	9+	2500	1	3	c, b, c	b, c, d, o	c, i, r, o	e, p, r, o	
	Bristol ...	1007.0	+4	WNW	3	44	75	7	5	3	9	2-3	3	3000	1007.7	+4	W	4	b, c	42	85	7	5	3	-	2-3	4-6	3500	1	*	c, m, o, b, e, c, c	c	c, b, e	c, d, d, o	
	Portland Bill ...	1007.4	+6	NW	4	46	85	8	2	4	-	7-8	3	4000	1008.4	+10	WNW	4	c	47	85	8	5	7	-	7-8	9	2500	1	4	c	c	c	c	
	Plymouth ...	1009.0	+2	WN	2	48	75	8	5	-	1	4-6	4-6	4500	1009.5	+8	NW	2	z, o	48	75	6	5	-	-	9+	9+	3000	0	2	c, m, o, b, c	c, b, c, c, z, o	c, m, o, w	c	
	The Lizard ...	1009.5	+4	NW	3	48	75	8	8	4	-	4-6	4-6	2500	1010.0	+4	W	4	e, p, r, o	49	92	8	8	2	-	7-8	10	1500	1	3	b, e, c, c, o, c	c, p, r, o, c	c, p, r, o, b, e	e, p, r, o	
	Scilly (St. Mary's)	1010.2	+2	W	2	49	85	8	8	7	-	4-6	9+	1500	1009.6	+6	WNW	4	c	49	97	8	1	4	-	4-6	7-8	1200	1		c, p, o, c	c	c, b, c, o, p, o	c, p, o	
	Guernsey ...																																		
6	Pembroke ...	1007.7	+2	WN	3	48	85	8	8	4	-	4-6	7-8	4000	1006.5	-12	W	5	e, p, r, o	50	97	7	8	-	-	9	9	1500	1	3	b, c, q, c	c, i, r, o	c, i, d, o	r, e, q, p, r, o	
	Holyhead (Valley)	1004.6	-2	WNW	4	48	75	9	2	3	5	2-3	7-8	2000	1004.0	-2	WSW	5	0	48	92	7	5	-	-	10	10	1500	0	4	c, b, c	b, e, c	c, i, d, o	c, i, d, o	
	Chester (Sealand)	1004.5	+4	WN	3	48	75	6	5	7	-	4-6	9+	2000	1004.0	0	SW	1	z, o	45	85	6	5	-	-	9+	9+	2300	1	*	c, p, r, o, m, o	c, m, o	m, o, d, o, c	c, m, o, m, d, o	
	Manchester ...	1004.7	+2	-	0	39	75	4	5	3	-	4-6	9+	3000	1004.3	+2	SW	3	z, o	42	92	5	5	-	-	10	10	1300	1	*	c, m	c, p, r, o, m	i, d, o, d, o	c, d, o, d, o, m, o	
10	Spurn Head ...	1001.9	+10	WNW	5	40	65	7	1	3	-	4-6	4-6	2500	1002.2	+4	SWW	3	z, o	39	75	6	5	-	-	10	10	2500	0	4	b, c	c, m, o	c, m, o	c	
	Catterick ...	1002.7	-2	W	2	39	65	8	-	5	-	0	9	-	1001.1	-10	WS	3	c	43	85	7	5	7	-	7-8	9+	6000	0	*	b, c, v, c	c	c, m, o, b, e	b, e, c	
	Tynemouth ...	1001.9	+10	W	4	38	35	6	5	4	-	4-6	7-8	3000	1000.7	-12	W	3	z, o	43	85	5	5	-	-	9+	9+	2400	1	4	b, e, q, c	c, m, o	c, m, o, b, e	b, e, c	
11	St. Abbs Head	999.7	0	WNW	5	39	65	8	5	5	-	7-8	9	2500	997.5	-6	W	3	0	41	85	7	5	-	-	10	10	2500	0	3	c	c, o	b, e, c	c	
	Leuchars ...	999.0	-14	WSW	4	38	75	8	-	7	-	0	10	-	995.6	-20	WSW	4	z, o	41	97	6	5	7	-	2-3	7-8	3500	1	*	c	c, c, m, o	c, m, o, c	c, b, e	
	Reafrow (Abbots L.)	1001.1	-10	WS	2	42	75	6	5	7	-	9+	10	5000	997.8	-22	SWW	4	z, o	47	85	6	5	2	-	9+	10	1800	1	*	b, c, c, m, o	c, m, i, r, o, m, o	c, i, r, o, c	c, c, i, r, o	
	Baldalemuir ...	1000.9	-2	SWW	3	37	75	8	5	7	-	2-3	10	1500	999.9	-4	SSW	3	r, o, c	39	97	5	-	2	-	10	10	220	1	*	b, x, b, c, c	c, i, r, o	c, i, r, o	r	
	Point of Ayre ...	1003.0	-4	WNW	4	40	85	8	2	3	-	1	9	2000	1001.6	-10	WNW	5	c	48	92	7	6	2	-	9	10	1500	1	5	b, e, p, r, o	c, i, r, o, c	c	c	
13a	Tiree ...	1000.1	-16	WN	3	49	85	8	5	-	7-8	7-8	2100	998.0	-4	WNW	4	e, p, r, o	49	85	7	5	-	-	9+	9+	1500	1	4	c, i, r, o	c, i, r, o	c, i, d, o	c, i, d, o		
13b	Stornoway ...	995.9	-18	SSW	5	45	97	7	3	7	-	7-8	9+	2000	992.9	-24	WSW	3	e, p, r, o	47	97	7	5	7	-	7-8	10	1000	1	2	c, p, r, o	c, i, d, o	c, i, d, o	c, i, d, o	
15	Dalwhinnie ...	998.8	-10	SW	3	38	85	8	8	-	3+	3+	2500	996.3	-10	-	0	0	39	92	7	5	-	-	10	10	2500	6	*	c	c, o	c, i, d, o	c, i, d, o		
	Aberdeen ...	997.2	-14	WS	2	40	75	6	-	7	-	0	9+	-	994.5	-14	SW	1	c	40	75	6	-	7	-	0	9+	-	1	2	c, z, o	c, z, o	c, z, o	c, v, r, b, e	
	Wick ...	994.6	-18	SW	3	39	85	8	5	2	7	1	10	4000	991.9	-14	SW	3	i, d, o	44	92	8	5	2	-	9	10	2500	1	*	i, r, a, c, i, d, o	c, i, r, o, d, o	d, o, d, o, c	c	
	Sumburgh ...	991.6	-14	W	4	43	85	7																											

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 8th Dec.				18h. G.M.T.				01h. G.M.T. 9th Dec.				07h. G.M.T.			
III	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN
1062	6	1744	23468	52	52536	24468	52	02635	57658	52	62538	57658	52	62538	57658
1162	6	2635	26588	52	81834	24587	52	62734	30587	52	67309	22569	52	67309	22569
203															
2057	02861	26285	57	02864	24325	52	61855	55468	54	02854	56556				
2157	02935	20328	57	02855	18328	57	02855	54528	51	02864	22426				
2252	05736	23258								52	03635	24328			
235	51638	21258	62	51637	19358	57	51646	19358	57	51745	20358				
247	02930	22318	50	02753	20223	07	02930	22227	53	02981	22367				
247	02772	21328	51	05644	22358	52	02757	55558	5-	02754	21427				
257	02867	22368	51	02744	23457	5-	02858	22328	57	22745	20368				
2757	02863	22223	5-	21648	21458	5-	02758	23458	57	02756	21428				
2853	02855	28417	50	02634	28454				23	02744	28526				
2853	02785	22216	57	22785	19268	5-	02857	20217	51	02765	22227				
575			6-	21648	24358	5-	02748	24328	5-	02748	24328				
3023	02752	27487	52	61735	26468	5-	21658	23468	5-	02758	24458				
3303	05590	28314	51	08455	22327	5-	05648	24368	5-	05658	23428				
2953	01744	26414	50	01746	24316	50	05544	26214	5-	05644	24125				
2992	02830	24215	5-	05566	20126	6-	02847	26267	57	02854	22327				
317		71436	20416								46203	20343			
6154	05678	22126	53	08455	26226	53	05664	22327	5-	21658	24258				
335	02957	24317	82	02854	20258	52	61755	22358	52	02846	24368				
335	02655	04216	--	02646	04217					02647	20528				
3407	81846	26287	5-	02766	22326	5-	22858	22268	5-	02857	08127				
1364	05676	25527	53	17474	24316	04	05690	22464	5-	05668	21428				
3362	01753	28327	54	01753	24315					52	02753	24428			
350							5-	05628	20328	5-	61634	22428			
80883	02864	26487					54	02747	22358	5-	05634	24358			
8795	02757	26327	53	01763	20214					5-	05648	22443			
3904	05630	26315	5-	08478	26418	03	08430	22364	5-	62558	22358				
357	22666	24227	53	05663	23327	6-	05634	22327	52	21636	20358				
4388	01773	26313								8-	10757	22587			
430	02852	24317	03	05590	24123	57	51646	26168	57	05653	24327				
49980	01854	30384	5-	02748	22358	53	25735	23387	5-	51638	24458				

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_h - Height and amount of low cloud—See M.O. 252.
 N - Total amount of cloud—See M.O. 252.
 C_u, C_m - Form of low and medium cloud—See page 1.
 V - Visibility. F - Force of wind—See page 1.
 DD - Direction of wind (E, SE, S, SW, W, NW, N, NE).

AIR MINISTRY, METEOROLOGICAL OFFICE.



Mb.
 1060
 1040
 1020
 1000
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 180
 160
 140
 120
 100
 80
 60
 40
 20
 0
 -20
 -40
 -60
 -80
 -100
 -120
 -140
 -160

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M. Tuesday 8th December
1 S.E. England	Moderate westerly wind; cloudy; occasional slight rain or drizzle; mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Moderate westerly wind, fresh on coasts, backing southwest later;
5 S.W. England	cloudy, occasional slight rain or drizzle at first, more general rain later; mild
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	As 1-3
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	As 4-8
13A. W. Scotland	
13B. N.W. Scotland	Fresh westerly wind, strong in exposed places, backing southwest and
14 Mid Scotland	perhaps increasing to gale on coasts; cloudy, rain at times; mild
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	As 4-8
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 CHANGES 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 low to north and high to south of the British Isles. A depression to southeast of Greenland will move quickly eastwards. Weather will be generally cloudy and mild and occasional rain or drizzle will occur in most districts today. More general rain will reach the West and Northwest later and spread eastwards across the country.

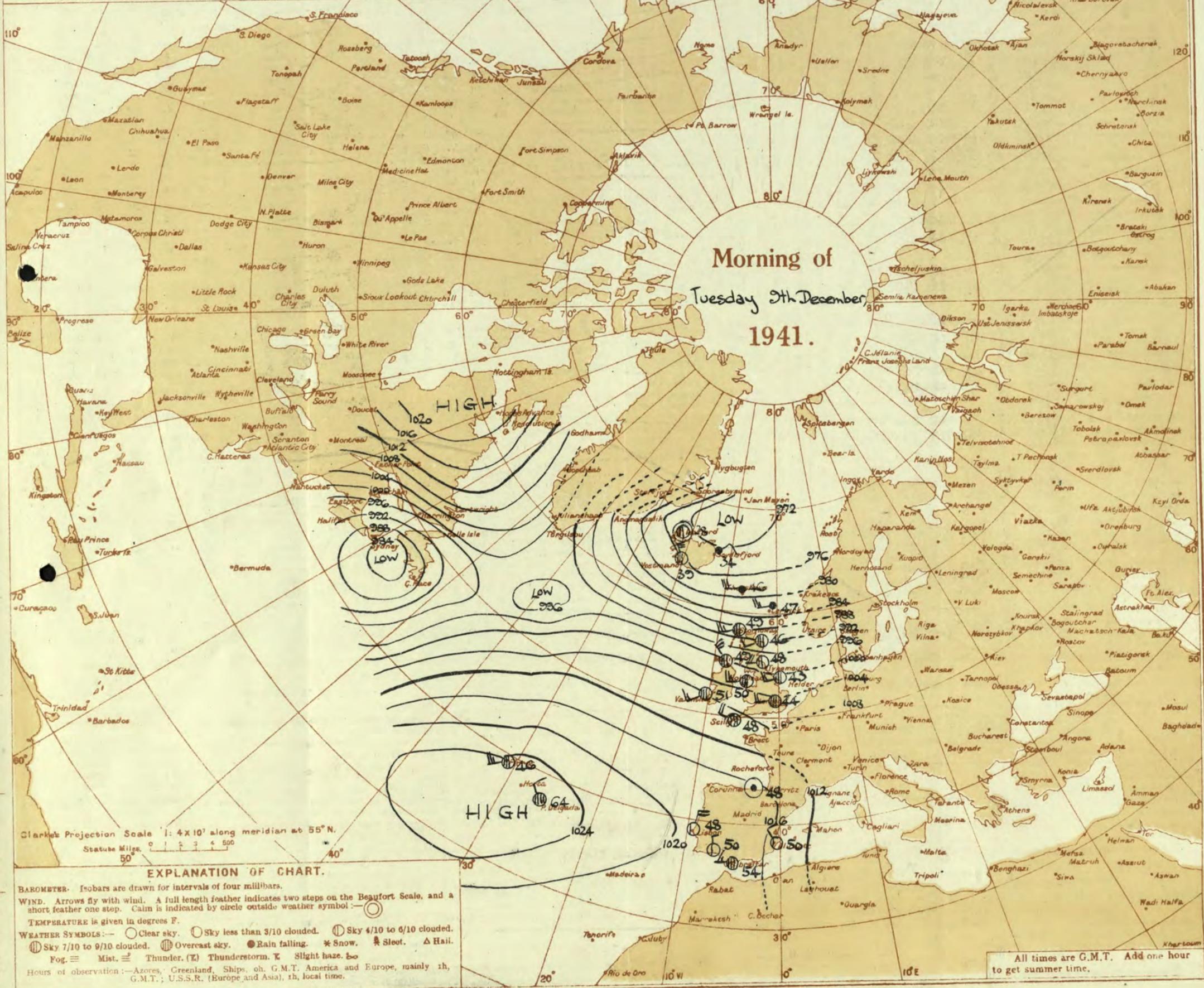
FURTHER OUTLOOK.
 Cloudy and mild with occasional rain in the South, changeable in the North.

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.



Morning of
 Tuesday 9th December
 1941.

Clarke's Projection Scale 1:4x10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500
 50'

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. △ Hail. Fog. ☁ Mist. ⚡ Thunder. (⚡) Thunderstorm. ☁ Slight haze. ☁
 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.

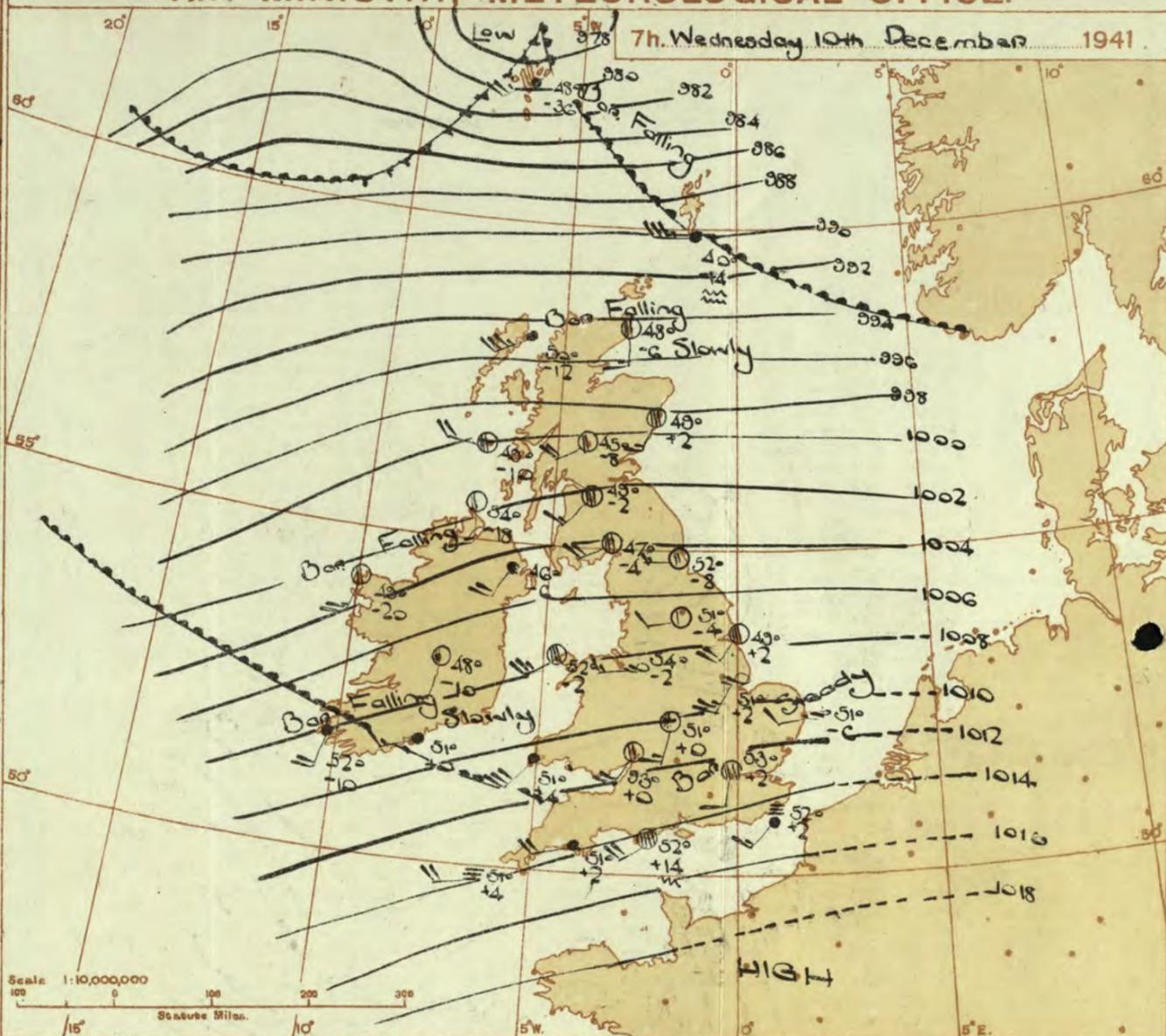
OBSERVATIONS at 1 hr. G.M.T. 5th December															OBSERVATIONS at 7 hr. G.M.T. 5th December															PAST 24 HOURS.								
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. (6)	Humid. (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. (20)	Humid. (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SON-SHINE (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)				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)	Total 0-10 (27)					
1	London (Kew)	18	*	*	*	42	85	*	*	*	*	*	1006.4	-4	SW	3	c/d	45	92	6	5	2	-	9	10	2500	1	*	41	40	35	-	Tr	3.3				
	Croydon	217	1007.1	-6	WSW	3	c	44	85	7	5	7	10	1800	1007.1	-2	WSW	2	c/d	46	92	6	5	3	-	7.8	94	1600	1	*	41	40	32	0.3	Tr	3.8		
	S. Farnborough	226	1007.2	-8	SW	3	c	44	85	7	5	7	9	1200	1007.1	-2	WSW	3	c	46	85	7	5	3	-	9	94	1200	1	*	42	38	32	Tr	3.2			
	Boscombe Down	417	1007.9	-6	SW	3	c	44	92	8	5	7	7.8	94	3200	1008.0	0	SW	4	c	47	92	7	5	7	-	9	10	800	1	*	44	38	32	-	0.1	1.7	
	Thorney Island	10	1008.3	-2	SW	2	c	44	92	6	5	7	94	1700	1007.7	-4	WSW	3	bc	48	92	7	8	3	1	2.3	4.6	2500	1	*	45	38	31	Tr	0.1	2.5		
	Lymington	346	1008.4	-2	W	2	c	39	92	6	5	2	2.3	94	4000	1008.1	-2	W	2	c	43	97	7	5	-	9	94	2200	1	§	37	35	34	-	Tr	2.5		
	Manston	154	1007.0	-2	SW	3	z	39	85	6	5	2	94	5000	1007.0	+2	W	2	z	43	92	6	5	7	-	2.3	94	2000	1	*	41	36	32	-	-	5.6		
2	Shoeburyness	11	1007.0	-6	WN	2	m	42	85	4	3	-	0	10	-	1007.0	-2	SW	3	ir	45	92	5	5	-	4.6	10	1700	1	*	42	40	36	-	0.1	5.1		
	Felixstowe	15	1005.8	-2	WSW	4	m	41	85	4	5	7	-	2.3	10	4000	1005.5	-4	WSW	3	z	44	92	5	5	-	10	10	2700	1	3	43	36	35	-	-	1.4	
	Gorleston	5	1005.2	0	SW	3	z	42	75	6	5	3	-	4.6	4.6	2500	1005.1	+2	SW	2	z	43	85	6	5	-	94	94	2500	0	2	41	36	31	-	-	*	
	Mildenhall	19	1004.8	-2	SW	4	z	41	85	6	5	7	-	2.3	9	4000	1004.6	+2	SW	4	id.	46	92	6	5	-	10	10	2300	1	*	41	38	35	Tr	Tr	1.9	
	Cranwell	240	1003.1	-8	WSW	4	z	41	92	5	3	1	0	7.8	-	1002.7	-2	W	5	z	46	92	6	5	-	10	10	2000	1	*	41	35	36	-	Tr	4.5		
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.0	+2	WSW	2	ir	45	97	6	6	7	-	7.8	10	1500	1	*	40	40	38	0.2	0.1	0.0	
	Upper Heyford	408	1006.1	-4	SW	4	z	42	97	5	5	-	10	200	1005.3	+4	SW	3	z	45	97	5	5	-	10	10	2800	1	*	40	38	34	Tr	Tr	*			
	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.4	-8	WSW	3	z	44	75	5	5	-	7.8	10	3000	1	*	45	43	38	Tr	Tr	0.9		
5	Hartland Point	299	1007.3	-2	W	4	pr	49	92	8	2	1	-	4.6	7.8	2500	1007.2	+2	W	4	c	49	92	8	8	-	7.8	7.8	1500	1	4	50	47	46	Tr	1	1.9	
	Bristol	209	1006.7	-8	SSW	5	bc	47	92	8	8	7	9	2.3	4.6	1500	1006.8	+2	W	4	d.d.	47	97	6	5	1	-	4.6	10	800	1	*	45	41	39	-	1	2.0
	Portland Bill	32	1008.4	-4	SW	4	c	50	92	8	2	-	10	10	2500	1008.2	-4	SW	4	c	51	92	8	5	-	10	10	2500	1	4	47	42	-	-	-	*		
	Plymouth	82	1009.1	-2	WN	2	c	48	97	7	5	-	-	7.8	7.8	2000	1009.2	+2	W	4	id.	50	92	6	6	-	10	10	1500	1	3	51	47	43	-	-	2.1	
	The Lizard	240	1009.4	-4	W	5	bc/pr	48	92	8	8	6	-	4.6	4.6	1500	1009.4	+2	WN	5	pr	49	97	8	6	-	7.8	94	1500	1	4	50	48	-	Tr	1	3.4	
	Scilly (St. Mary's)	163	1009.5	0	WNW	4	pr	48	97	8	8	6	-	2.3	7.8	1200	1009.1	0	WNW	4	c	49	92	8	8	3	-	4.6	94	1200	1	4	50	44	0.1	0.5	0.0	
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
6	Pembroke	142	1006.4	-4	W	5	c	50	92	7	3	7	-	7.8	10	1500	1006.1	0	W	5	pr	51	92	7	8	-	94	94	1500	1	3	50	42	-	Tr	0.5	1.8	
7	Holyhead (Valley)	26	1003.5	-2	W	5	c/d	50	85	7	5	-	10	10	2000	1003.5	+2	W	5	id.	40	92	7	5	-	10	10	2000	1	4	49	49	47	-	Tr	*		
	Chester (Sealand)	16	1003.4	-8	W	2	d.d.	48	85	6	5	2	-	9	10	2600	1003.5	+2	W	2	z.	48	85	6	5	-	10	10	2600	1	*	45	45	41	1	Tr	0.5	
	Manchester	235	1003.4	-6	W	4	d.d.	46	92	6	5	-	4.6	10	1200	1003.8	+4	SW	3	c/d	46	92	5	5	-	7.8	10	1500	1	*	42	41	39	Tr	0.2	*		
10	Spurn Head	29	1001.1	-2	SW	3	c	42	92	6	6	-	94	94	1500	1001.6	+4	SW	3	c	46	92	6	7	-	94	94	2500	0	3	41	39	-	-	-	0.9		
	Catterick	175	999.8	-6	WS	3	bc	48	75	7	5	-	2.3	2.3	2000	999.2	-6	SW	3	c	49	75	7	3	2	-	7.8	94	2000	1	*	43	42	40	-	-	1.9	
	Tynemouth	108	997.9	-8	W	4	bc	48	75	7	2	3	-	2.3	4.6	2500	998.2	-6	WNW	5	c	50	75	6	8	-	9	9	2500	1	3	43	42	40	-	-	2.5	
11	St. Abbs Head	280	995.3	-6	W	5	c	49	75	7	4	1	-	7.8	94	2500	995.5	-6	W	5	c	50	75	7	5	7	-	7.8	9	2500	0	4	42	40	-	-	-	*
	Leuchars	36	994.1	-2	W	5	c	48	75	8	5	1	-	7.8	10	3200	994.5	-4	W	4	c	46	92	8	3	-	4.6	7.8	2800	1	*	41	41	-	-	-	0.0	
12	Renfrew (Abbots.)	19	998.0	-2	WN	4	c	49	85	7	5	2	-	7.8	94	3500	997.8	+2	W	3	c	49	85	7	5	7	-	7.8	94	2900	1	*	47	47	44	0.5	Tr	0.0
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Point of Ayre	30	1001.0	0	WNW	5	c	49	85	8	5	2	-	7.8	10	2000	1001.0	-2	W	4	ir	49	85	8	7	-	7.8	10	1800	0	4	48	48	-	-	-	0.2	
13A	Tiree	22	998.4	+4	W	3	c	49	92	8	5	-	94	94	1800	998.2	0	WNW	4	id.	49	92	7	5	-	94	94	2100	1	4	49	48	-	2	0.2	0.0		
13B	Stornoway	80	992.2	-10	WSW	5	c/d	49	85	7	5	2	-	7.8	10	1000	992.8	+10	WSW	5	c/d	48	92	8	5	7	-	7.8	94	1500	1	3	47	47	-	0.3	0.5	0.0
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Wick	119	990.2	-2	WSW	2	c	47	85	8	5	7	-	9	10	2500	990.6	-2	SW	2	c	46	92	6	5	3	-	4.6	7.8	3100	1	2	40	40	36	Tr	2	0.0
16	Sumburgh	30	985.2	-6	W	5	c/r	48	92	7	5	2	-	4.6	10	1000	984.5	-2	WN	5	ir	49	92	6	6	2	-	94	10	700	1	*	45	44	44	2	1	*
17	Blacksod Point	18																																				

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 5th December				01h. G.M.T. 10th December				07h. G.M.T.				
III	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN
109	5	51538	56758	5	02745	24655	5	51748	23658	5	02747	20527
115	52	81835	57688				52	81834	24687			
203	6	61838	20688	6	51838	20688	6	03838	20658	5	03838	16628
206	53	01854	55428	5	01854	25564	57	02865	55626	57	02864	22328
210	57	01963	20828	53	01853	20424	54	01961	22414	07	02890	53428
220	80	25746	24486	80	81545	26485				52	02635	23528
230	5	51848	20458	5	02846	19556	57	21847	19158	51	51747	19358
245	54	02962	22517	04	02990	23518	07	02990	22328	53	02972	20425
260	57	02563	22526	5	05648	22328	5	02855	22426			
278	52	52736	22458	5	02748	22258	5	02858	23258	5	02758	20228
279	57	02745	20328	5	05658	20528	6	05638	22428			
285	27	53635	24657									
288	51	02866	22327	5	02757	19328				20	01744	28684
575	02	53638	21358	57	21646	22358	5	02748	24458	5	02847	18327
801	57	05644	24457	5	05648	22258	--	57303	23353	5	21558	22358
921	57	17555	24327	57	17655	22425	50	05653	22213	5	05648	22328
299	50	02647	24327	5	02647	24227	5	05648	20228	50	05653	24313
292	57	02855	22467	5	02748	21328	5	05638	14128	5	02748	19328
310	--	01645	20315	--	02538	20318	--			--	46103	20343
614	07	05680	24455	51	05654	22227	5	05547	22127	5	05545	22328
333	5	02868	20318	5	52678	20358	51	52515	20358	--	52557	20258
334	--	02746	23417	--	51537	26288	--			--		
340	57	02855	22216	50	08553	22313	5	02767	18217	5	02847	20317
136	07	05680	22457	07	05680	20464	03	05680	20317	5	05628	20428
336	54	02753	20416	62	62526	24368				52	21753	20458
350	57	02744	22456				5	05628	53428	5	53637	20557
368	53	21634	24457	5	21438	21658	5	62637	22367	5	21637	22457
379	57	02747	22428	03	05680	22322	5	05628	22358	5	51418	20448
390	53	08445	22327	5	08458	22328	5	05384	55428	5	05528	55458
382	57	02846	56428	53	05643	22424	5	02737	55427	5	02747	20327
438	8	02754	26517				-2	57103	24563			
430				5	05658	23328	5	21628	21558	5	52528	21558
409	5	51834	22358	5	57108	20458	5	57208	20358	5	02618	20458

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_M - 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 10th December
1 S.E. England	Moderate to fresh southwest winds, strong locally on the west coast; dull; occasional drizzle or light rain especially in the West and Southwest; much hill and local coast fog in the Southwest; mild and close.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Wind southwest, moderate to fresh, increasing to strong at times on the coast, some fair periods at first, becoming generally dull with occasional rain or drizzle, with some hill fog; 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	Wind southwest, strong to gale at times on coast; dull; occasional rain; mild
14 Mid Sootland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	As 7-13A
19 S. E. Ireland	
20 S. W. Ireland	As 1-G

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 from Spain to southward of the Azores, and depressions are moving east-northeast on the North Atlantic. Very mild southwesterly winds will spread to all districts with occasional drizzle or light rain in many areas and with hill and local coast fog in the West and South.

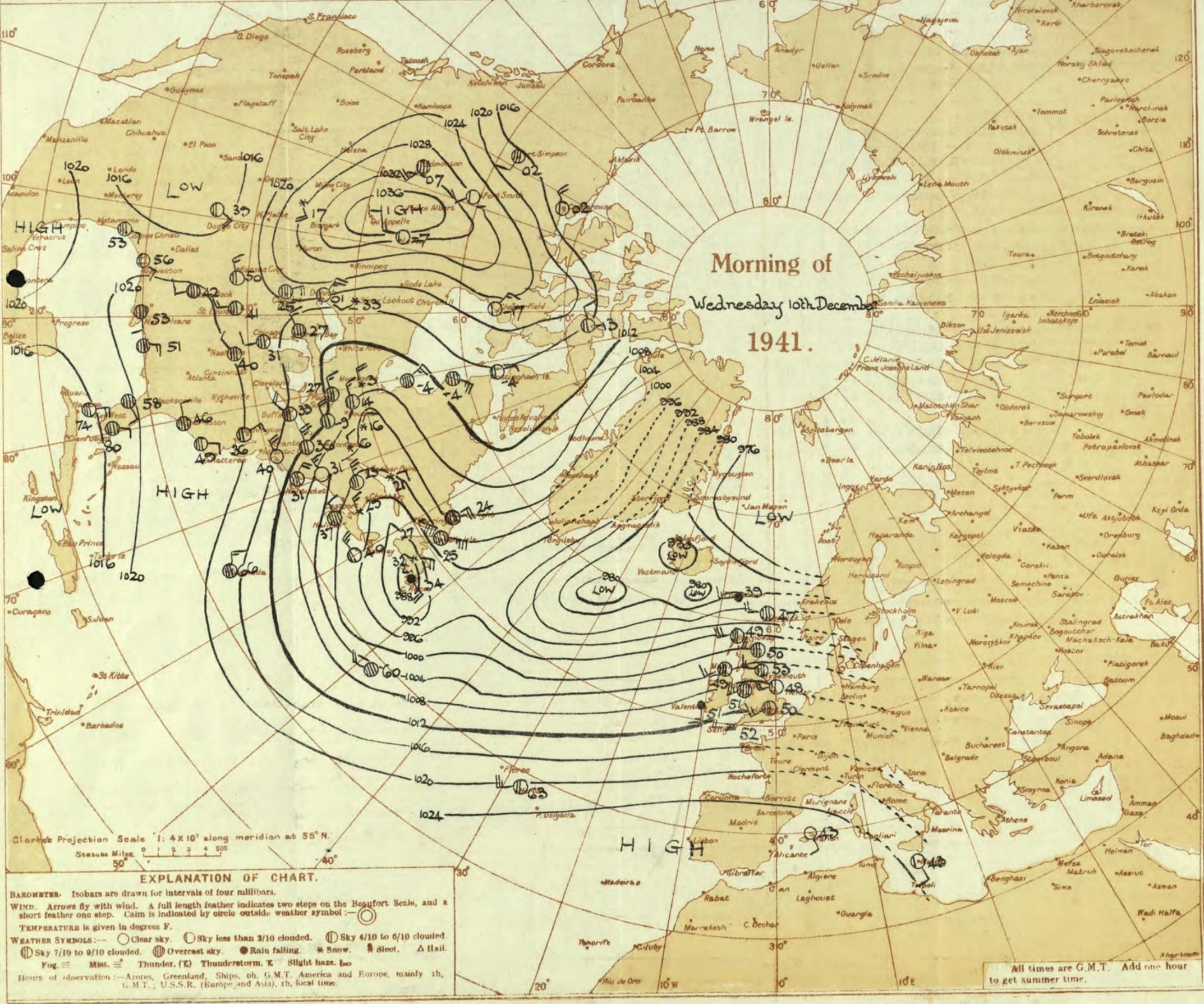
FURTHER OUTLOOK.
Continuing mild and mainly dull with some occasional rain or drizzle.
Warning of a southerly gale in districts 13B and 16 at 0555 on 10.12.41.

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.

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. 10th December.....

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

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. (30)	Sea. (31)	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs. (30)				
					Dirac.	Force.					Form.	Amount.	Height of Base (feet).	Dirac.			Force.	Form.					Amount.	Height of Base (feet).	Max. Day 7h-18h °F. (32)	Min. Night 18h-7h °F. (33)			Min. on Grass °F. (34)	Day 7h-18h mm. (35)	Night 18h-7h mm. (36)							
																																Low.	Med.		High.	Low.	Med.	High.
1	London (Kew)	18	*	*	*	*	*	49	*	*	*	*	*	1012.9	+2	sw	3	id.	51	97	6	5	-	-	10	10	1500	1	*	51	49	49	Tr	Tr	0.0			
	Croydon	217	1012.3	+2	sw	3	c	50	92	7	5	-	-	1012.9	+2	sw	2	id.	53	97	6	5	-	-	10	10	900	1	*	50	50	45	Tr	Tr	0.0			
	S. Farnborough	226	1012.8	+2	sw	3	c	51	97	6	5	-	-	1012.8	+2	sw	4	e/d	53	92	6	5	-	-	10	10	800	1	*	50	49	47	Tr	Tr	0.0			
	Boscombe Down	417	1013.1	+4	sw	3	c	51	97	7	5	-	-	1013.7	+2	sw	3	id.	52	97	7	5	-	-	10	10	400	1	*	50	48	46	Tr	Tr	0.0			
	Thorney Island	10	1013.6	+4	sw	4	e/d	52	97	6	5	-	-	1014.0	+2	sw	3	d/d	53	97	5	5	-	-	10	10	200	1	*	52	49	38	Tr	Tr	0.2			
	Lymington	346	1013.2	+6	w	3	c	49	92	7	5	-	-	1014.1	+2	sw	3	df	52	97	1	-	-	-	10	10	450	1	4	50	48	46	Tr	Tr	0.0			
	Manston	154	1012.1	+8	sw	3	pr	49	92	5	5	-	-	1012.9	+2	sw	4	df	52	97	6	5	-	-	10	10	800	1	*	50	48	44	Tr	Tr	0.2			
2	Shoeburyness	11	1012.2	+10	sw	2	ir	50	85	6	6	-	-	1012.7	0	sw	3	c	52	92	7	6	-	-	10	10	1100	1	*	50	50	47	Tr	Tr	0.4			
	Felixstowe	15	1011.2	+4	sw	2	z	48	92	6	5	-	-	1011.7	+2	sw	4	z	51	97	5	5	-	-	10	10	900	1	3	50	47	45	Tr	Tr	0.0			
	Gorleston	5	1010.4	+12	sw	3	z	49	85	6	5	-	-	1010.5	-6	sw	2	z	51	92	6	5	-	-	7-8	10	1500	0	2	49	46	41	Tr	Tr	0.0			
	Mildenhall	19	1010.1	+6	sw	4	z	50	92	6	5	-	-	1010.4	+2	sw	4	z	53	92	7	5	-	-	10	10	900	0	*	50	49	45	Tr	Tr	0.0			
	Cranwell	240	1008.5	+6	sw	5	z	49	92	6	5	-	-	1008.5	+2	sw	5	z	51	92	6	5	-	-	9	9	2500	1	*	49	46	46	Tr	Tr	0.0			
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	1009.9	0	sw	3	c	51	92	7	5	1	-	9	9	800	1	*	50	48	46	-	-	0.9			
	Upper Heyford	408	1010.8	+6	sw	4	e/d	49	97	5	5	-	-	1011.1	-2	sw	3	e/d	51	97	5	5	-	-	10	10	900	1	*	49	46	42	-	Tr	0.0			
	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	1010.3	0	sw	4	bc	53	85	8	5	-	-	2-3	2-3	2700	1	*	52	50	45	-	Tr	0.1			
5	Hartland Point	299	1011.0	+2	sw	4	df	52	97	1	-	-	-	1011.7	+2	sw	4	df	51	97	2	-	-	-	10	10	450	1	5	51	49	48	0.4	4	0.1			
	Bristol	200	1011.9	-8	sw	5	bc	52	92	7	5	7	-	2-3	4-6	1500	1012.0	+2	sw	4	id.	52	92	6	5	3	-	2-3	4-6	1200	1	*	51	46	47	0.3	0.3	0.0
	Portland Bill	32	1012.8	+4	w	4	c	52	92	7	5	-	-	1014.0	+14	sw	4	o	52	92	7	5	-	-	10	10	2500	1	5	52	50	-	1	0.0				
	Plymouth	82	1013.5	-2	sw	4	dd	53	97	3	5	-	-	1014.7	+6	sw	4	d.d.	52	97	4	5	-	-	10	10	300	1	3	52	50	47	Tr	Tr	0.0			
	The Lizard	240	1013.7	+2	sw	5	df	52	97	2	5	-	-	1014.4	+6	sw	4	df	51	97	2	5	-	-	10	10	800	1	4	51	50	0.5	1	1.0				
	Scilly (St. Mary's)	163	1013.2	+2	w	4	f	52	97	2	-	-	-	1013.8	+4	sw	4	f	51	97	3	-	-	-	10	10	450	1	4	52	50	0.1	-	0.0				
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
6	Pembroke	142	1010.5	+2	sw	4	d.d.	52	97	4	5	-	-	1010.6	+4	sw	6	d.d.	51	97	5	8	-	-	10	10	1500	1	3	57	48	0.2	p.1	0.0				
7	Holyhead (Valley)	26	1007.3	+6	sw	5	z	51	97	5	5	-	-	1007.1	-2	sw	5	e	52	92	7	5	-	-	10	10	2000	0	4	51	50	50	Tr	Tr	0.0			
	Chester (Sealand)	16	1008.1	+8	w	2	c	54	85	7	5	-	-	1010.2	-2	w	3	z	54	85	6	5	-	-	4-6	4-6	1700	1	*	53	51	40	-	-	1.3			
	Manchester	235	1008.1	+8	sw	2	e/d	51	92	6	5	-	-	1008.0	-2	sw	4	c	51	92	6	5	-	-	7-8	10	1500	1	*	50	47	46	Tr	Tr	0.0			
10	Spurn Head	29	1006.9	0	sw	4	bc	48	92	7	4	1	0	2-3	-	sw	4	e	49	92	6	7	-	-	9	9	2500	0	3	49	45	0.1	-	0.0				
	Catterick	175	1005.8	0	sw	1	bc	50	92	7	5	-	-	2-3	2-3	2000	1005.3	-4	w	2	bc	51	85	7	5	-	1	1	1300	1	*	51	47	39	-	-	0.0	
	Tynemouth	108	1004.6	+8	w	3	c	53	85	7	8	-	-	9	9	2500	1004.4	-8	w	3	bc	52	85	6	-	4	1	0	2-3	-	0	3	51	50	44	-	-	0.0
11	St. Abbs Head	280	1000.2	+2	sw	4	bc	50	75	8	4	4	-	4-6	4-6	2500	1001.5	-2	w	3	bc	48	85	8	4	4	-	4-6	4-6	2500	0	3	51	51	-	-	0.0	
	Leuchars	36	999.9	-6	w	6	bc	48	92	8	5	3	-	1	4-6	4000	1000.3	-2	sw	2	e	48	92	7	5	-	9	9	2200	1	*	51	47	42	-	-	1.0	
12	Renfrew (Abbots I.)	19	1003.7	0	sw	3	id.	51	85	7	5	-	-	9	9	1400	1003.0	-2	sw	3	e	49	85	7	5	-	9	9	2000	1	*	51	49	46	Tr	Tr	0.3	
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	-4	sw	4	e	47	92	6	5	-	10	10	800	1	*	48	46	46	0.3	Tr	0.0	
	Point of Ayre	30	1005.6	+6	w	3	c	51	97	7	6	2	-	9	10	1500	1005.6	0	w	5	e	50	92	7	6	2	-	9	10	1500	1	4	52	48	0.1	Tr	0.2	
13A	Tiree	22	1006.8	0	sw	4	e/d	49	92	7	5	-	-	9	9	1500	1000.1	-10	sw	4	c	49	92	7	5	-	9	9	1500	1	4	50	48	0.1	Tr	0.0		
13B	Stornoway	80	996.6	-10	sw	6	pr	49	92	7	5	7	-	4-6	9	2000	999.5	-12	w	7	pr	50	92	7	5	7	-	7-8	9	2000	1	4	49	47	0.1	0.2	0.0	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	999.5	-8	sw	4	bc	45	85	8	8	-	2-3	2-3	2500	0	*	46	43	30	0.1	-	0.8	
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	998.0	+2	sw	3	c	49	85	7	5	-	7-8	7-8	3200	1	2	52	46	37	-	-	0.6		
	Wick	119	996.3	+2	w	4	c	47	85	8	5	-	-	9	9	1800	993.9	-6	w	3	c	48	85	7	5	7	-	7-8	9	3500	1	*	50	47	44	Tr	Tr	0.3
16	Sumburgh	30	991.9	+6	wnw	6	pr	49	85	7	8	-	-	10	10	1000	990.0	-14	w	7	rr	47	92	6	5	-	10	10	700	1	6	49	47	44	Tr	Tr	0.0	
17	Blacksod Point	18	1006.0	0	w	3	cf	49	97	6	5	-	-	10	10	800	1002.7	-20	sw	5	c	50	97	7	2	5	-	4-										

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION
Thursday, 11th December, 1941.
No 29239

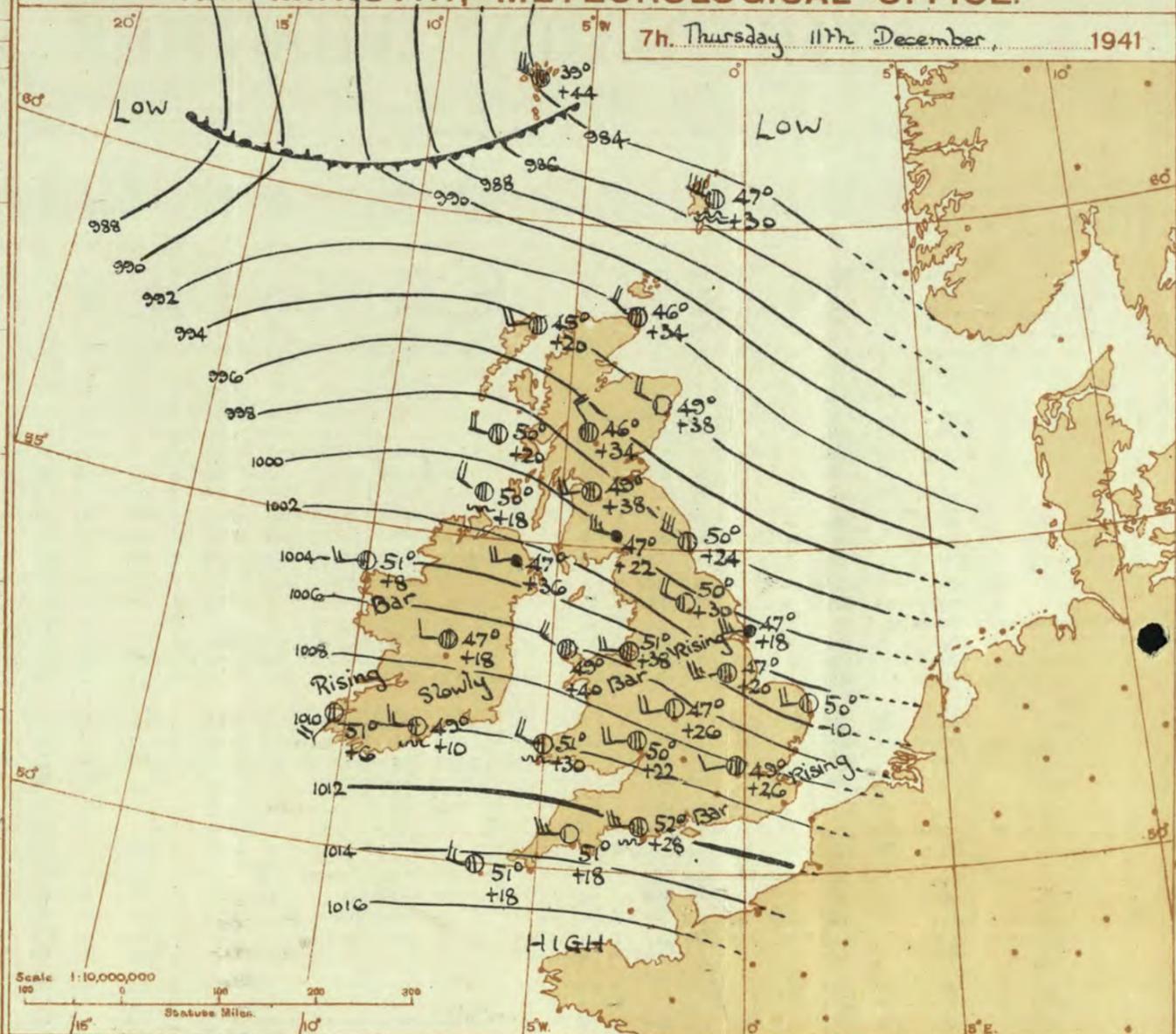
OBSERVATIONS at 13h. G.M.T. 10th. December														OBSERVATIONS at 18h. G.M.T. 10th. December														PAST 24 HOURS.								
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					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. (3)	Force. (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (14)	Low. (11)	Med. (12)			High (13)	Dirac. (17)					Force. (18)	Form. (23)	Amount. (24)	Height of Base. (feet) (28)	Low. (25)			Med. (26)	High (27)	7h.—18h. 10h.... (37)	18h.—18h. 10h.... (38)	18h. 10h to 1h.—11h. (39)	1h.—7h. 11h.... (40)	
																																				0-12
1	London (Kew)...	1013.0	+2	SW	4	o	54	92	7	5	-	10	10	800	1012.0	-8	SW	4	z	53	92	6	5	-	10	10	1500	1	*	c	ido	cido	cmo	cmo	cmo	cmo
	Croydon ...	1013.6	-2	SW	4	o	55	85	7	5	-	10	10	900	1013.1	-2	SW	4	ido	54	92	6	5	-	10	10	1600	1	*	ido	cmo	cmo	cmo	cmo	cmo	
	S. Farnborough	1013.8	0	SW	5	ido	54	92	7	5	2	-	7.8	10	800	1012.9	-4	SW	3	ido	53	92	6	6	-	10	10	600	1	*	ido	cmo	cmo	cmo	cmo	cmo
	Boscombe Down	1014.3	0	SW	4	o	53	92	8	5	-	10	10	800	1013.2	-2	SSW	3	ido	53	97	6	6	-	10	10	400	1	*	ido	cmo	cmo	cmo	cmo	cmo	
	Thorney Island	1015.1	+4	SW	4	ido	55	92	6	6	2	-	7.8	10	450	1013.9	-6	SW	4	ido	54	97	6	5	-	10	10	500	1	*	ido	cmo	cmo	cmo	cmo	cmo
	Lympe	1015.4	-2	WSW	4	d.d.	53	97	7	5	-	10	10	300	1015.4	-4	WSW	5	d.d.	52	97	4	2	-	10	10	100	1	\$4	ido	cmo	cmo	cmo	cmo	cmo	
	Manston	1012.6	0	WS	5	o	54	92	7	5	-	10	10	800	1012.6	0	SW	3	ido	54	92	6	5	-	10	10	800	1	*	ido	cmo	cmo	cmo	cmo	cmo	
2	Shoeburyness ...	1013.4	0	WSW	3	o	56	85	6	5	-	10	10	1100	1013.3	+2	SW	3	c	53	92	7	5	-	10	10	1500	1	*	m.c	cmo	cmo	cmo	cmo	cmo	
	Felixstowe ...	1012.3	+2	SW	4	z	53	92	6	5	-	10	10	1200	1011.6	-4	SW	3	z	51	92	6	5	-	7.8	10	1200	1	3	cmo	cmo	cmo	cmo	cmo	cmo	
	Gorleston ...	1010.9	-10	SW	3	z	55	85	6	5	-	10	10	300	1010.5	-2	SW	4	z	55	85	6	5	-	10	10	800	0	3	c	cmo	cmo	cmo	cmo	cmo	
	Mildenhall ...	1010.6	-2	SW	5	c	55	85	8	5	-	7.8	9	1000	1005.9	-4	SW	5	c	55	85	7	5	-	10	10	1400	0	*	c	cmo	cmo	cmo	cmo	cmo	
	Cranwell ...	1008.4	-6	SW	5	z	54	85	6	5	-	9	9	1800	1007.6	-6	WSW	4	z	53	85	6	5	-	9	9	1400	1	*	cmo	cmo	cmo	cmo	cmo	cmo	
3	Birmingham	1010.1	-2	SSW	4	c	54	85	8	5	-	7.8	7.8	1500	1007.5	-14	SSW	4	c	52	92	8	5	-	9	9	800	1	*	c	cmo	cmo	cmo	cmo	cmo	
4	Upper Heyford	1011.6	0	SSW	4	c	53	92	7	5	-	9	9	500	1010.1	-8	SW	4	z	53	92	6	5	-	10	10	1200	1	*	cmo	cmo	cmo	cmo	cmo	cmo	
	Ross-on-Wye ...	1011.2	0	SW	3	c	53	85	8	8	3	-	7.8	9	3000	1008.8	-10	SW	3	dd	53	97	6	6	-	10	10	800	1	*	bc	cmo	cmo	cmo	cmo	cmo
5	Hartland Point	1011.6	-8	WSW	4	o	52	97	5	5	-	10	10	300	1008.3	-16	WSW	6	ido	53	97	6	5	-	10	10	450	1	5	df	ido	ido	ido	ido	ido	
	Bristol ...	1012.7	-2	WSW	4	o	55	85	8	5	-	10	10	1400	1011.3	-10	WSW	5	ido	53	85	7	6	-	9	9	1400	1	*	c	cmo	cmo	cmo	cmo	cmo	
	Portland Bill ...	1014.9	-2	WSW	4	df	53	92	3	5	-	10	10	1500	1013.6	-8	SW	5	rr	53	92	6	5	-	10	10	2500	1	5	df	ido	ido	ido	ido	ido	
	Plymouth ...	1014.7	-8	SW	4	df	53	97	3	2	-	10	10	200	1013.0	-10	SW	6	o	53	97	6	5	-	10	10	1000	1	4	df	ido	ido	ido	ido	ido	
	The Lizard ...	1014.3	-4	WSW	5	m	53	97	4	5	-	10	10	600	1012.4	-16	WSW	6	df	53	97	6	5	-	10	10	1000	1	5	df	ido	ido	ido	ido	ido	
	Soilly (St. Mary's)	1013.0	-12	SW	5	c	53	97	6	5	-	9	9	800	1010.7	-6	SW	5	c	53	97	5	5	-	10	10	800	1	5	df	ido	ido	ido	ido	ido	
	Guernsey ...	1010.4	-10	SW	5	d.d.	52	97	5	5	-	10	10	800	1006.9	-12	SW	7	og	53	97	5	5	-	10	10	1500	1	4	d.d.	ido	ido	ido	ido	ido	
6	Pembroke ...	1010.4	-10	SW	5	d.d.	52	97	5	5	-	10	10	800	1006.9	-12	SW	7	og	53	97	5	5	-	10	10	1500	1	4	d.d.	ido	ido	ido	ido	ido	
7	Holyhead (Valley)	1006.5	-8	SSW	6	ido	51	97	4	5	-	10	10	1500	1002.9	-22	SW	6	ido	52	97	6	5	-	10	10	200	1	*	d.d.	ido	ido	ido	ido	ido	
	Chester (Sealand)	1008.0	-4	SW	3	c	55	75	7	7	4	-	7.8	7.8	2000	1004.9	-22	SW	1	z	54	85	6	4	3	-	4.6	4.6	2900	1	*	bc	cmo	cmo	cmo	cmo
8	Manchester ...	1008.0	-6	SSW	5	c	53	85	8	5	-	7.8	7.8	2000	1005.5	-8	SSW	4	c	53	97	7	5	-	7.8	9	2100	1	*	bc	cmo	cmo	cmo	cmo	cmo	
10	Spurn Head ...	1006.5	-10	SW	4	z	54	85	6	5	-	2.3	2.3	2500	1005.8	-2	SW	4	z	51	85	6	5	-	0	0	-	0	3	cmo	bc	cmo	cmo	cmo	cmo	
	Catterick ...	1005.4	-8	SW	2	c	54	75	5	4	-	4.6	4.6	2300	1002.1	-18	WSW	5	z	53	85	6	5	-	Tr	Tr	1500	0	3	bc	cmo	cmo	cmo	cmo	cmo	
	Tynemouth ...	1003.5	-20	WSW	4	bc	54	75	6	4	-	0	2.3	-	1001.5	-12	WSW	3	bc	52	75	6	2	3	-	2.3	4.6	2500	1	3	bc	cmo	cmo	cmo	cmo	cmo
11	St. Abbs Head	999.6	-12	W	5	bc	48	85	8	4	4	-	2.3	4.6	2500	996.8	-18	W	6	bc	49	85	8	4	4	-	4.6	4.6	1500	0	3	bc	cmo	cmo	cmo	cmo
	Leuchars ...	999.3	-6	W	5	o	49	85	7	5	-	10	10	1500	995.7	-24	WSW	5	z	50	85	6	5	-	10	10	1200	1	*	cmo	cmo	cmo	cmo	cmo	cmo	
	RAF Leuchars	997.9	-8	SW	3	c	50	85	7	5	-	9	9	1200	996.9	-34	WSW	4	c	52	85	6	5	2	-	9	10	1200	1	*	cmo	cmo	cmo	cmo	cmo	
	RAF Leuchars	1001.6	-14	SW	6	o	45	97	5	2	-	10	10	220	998.7	-22	WSW	4	c	47	97	4	2	-	10	10	220	1	*	ido	ido	ido	ido	ido		
	Point of Ayre ...	1004.1	-10	WS	4	c	55	75	8	8	4	-	7.8	7.8	1500	999.9	-22	SW	4	c	53	85	8	6	2	-	7.8	10	1500	0	4	bc	cmo	cmo	cmo	cmo
13A	Tiree ...	996.8	-26	SW	5	c	51	85	7	5	-	9	9	1500	991.2	-30	SW	5	rr	50	97	7	2	-	10	10	1500	1	5	ido	ido	ido	ido	ido		
13B	Stornoway ...	991.4	-24	SSW	6	d.d.	50	97	6	8	2	-	9	10	1500	986.6	-22	S	7	rr	50	97	6	5	-	10	10	500	1	4	ido	ido	ido	ido	ido	
15	Dalwhinnie	997.9	-8	SW	4	bc	47	85	8	8	-	4.6	4.6	2500	993.9	-20	SW	4	ido	45	97	7	5	2	-	4.6	10	1500	1	*	bc	cmo	cmo	cmo	cmo	
	Aberdeen ...	996.7	-6	SW	3	b	52	75	7	5	-	Tr	Tr	3200	993.7	-20	SW	3	b	49	85	7	4	-	0	1	-	1	2	bc	cmo	cmo	cmo	cmo		
	Wick ...	992.7	-10	SW	3	c	54	75	9	5	7	4	1	7.8	2000	989.8	-22	SW	4	c	48	85	8	5	7	-	4.6	7.8	2500	1</						

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 10th December 18h. G.M.T.				01h. G.M.T. 11th December 07h. G.M.T.					
III	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN
109	S7	02844	21725	5-	02748	20428	53	02743	22625
115							8-	02756	26686
203							5-	67103	20669
206	S4	01964	20414	5-	02856	55626	57	02844	26567
210	S7	01991	52613	57	02863	51626	5-	02838	20768
220	S2	58636	23528	52	59226	23658	52	02855	53665
230	S0	81838	20458				53	02855	57626
245	S0	01853	23413	5-	02858	20528	57	02965	21467
260	S4	02855	22416	5-	51645	52528	53	01722	26214
275	S-	02847	19327	5-	02838	18458	87	02846	19367
279	S-	02857	19457	5-	05638	18658	87	81846	23387
285	26	05635	26556	5-	52638	24568	54	00961	22362
288	S0	02854	21425	5-	05647	51427	5-	22646	53468
575	S-	21747	19357	5-	64748	18468	5-	05663	53413
301	S6	01723	22454	5-	01734	18314	8-	61848	24388
321	86	01754	21525	5-	02756	20426	8-	81747	24467
290	S0	05545	24315				2-	81636	26686
292	S3	05645	21327	5-	05554	17214	52	52645	53457
310				--	51428	20528	5-	01763	21263
614	S3	05636	22326	5-	05648	22428	50	01744	57564
333	S-	54618	18558	5-	54638	53658	50	62658	52468
334	--	51847	26228	--	53547	26288	5-	05658	58468
340	S-	02846	22416	57	02755	22425	50	25744	24384
136	S-	05638	20428	5-	02748	21528	50	01853	25463
336	S2	02753	20327	52	02754	20428	--	02638	20428
350	S-	51838	53428	5-	02745	52425	50	61545	57458
308	S2	51637	22458	5-	21637	20558	54	01864	23514
379	S-	52627	22457	5-	51628	20558	--	02546	24217
390	S-	51637	20558	5-	45356	20456	5-	02866	24316
382	S-	02837	55427	6-	02748	53428	62	63653	28667
438	02	57109	32555				06	05690	54483
430	S-	51528	20458	5-	52428	57458	5-	22643	55763
409	S-	21728	18558	5-	21628	19558	80	05653	57513
							53	01853	20484
							5-	02756	26566
							55	02854	24526
							50	00851	24561
							50	01744	24614

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_h - Height and amount of low cloud - See M.O. 252.
N - Total amount of cloud - See M.O. 252.
C, C_M - Form of low and medium cloud - See page 1.
V - Visibility - See page 4.
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. Thursday 11th December

1 S.E. England	Moderate westerly winds, fresh locally, backing southwest, freshening generally; fair to fine today; some rain later; rather mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Fresh westerly winds backing S.W. to S. increasing strong to gale on coasts; veering tomorrow; fair early apart from a few local showers; a period of rain spreading from the west this evening and tonight.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Rather mild.
9 N. Midlands ...	
10 N.E. England	As 1-4.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	As 5-8.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Strong squally N.W. winds, moderating, backing S.W. to S. increasing later; cloudy; some showers; general rain by end of period;
15 N. E. Scotland	
16 Orkneys and Shetlands	Average temperature.
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	Winds backing S.W. to S. increasing strong to gale veering W. squally by tomorrow. Cloud increasing with rain spreading from the west; bright periods and showers tomorrow; 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
 = Cold Front on the surface
 = 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 continues high south of the British Isles. A ridge of relatively high pressure crossing the country will give a short interval of mainly fair weather but another depression will move in quickly from the Atlantic to cause further rain and some strong winds.

FURTHER OUTLOOK.
 Very unsettled westerly type continuing.

Gale warning in operation in district 16. time of issue 0555h on 10.12.41.

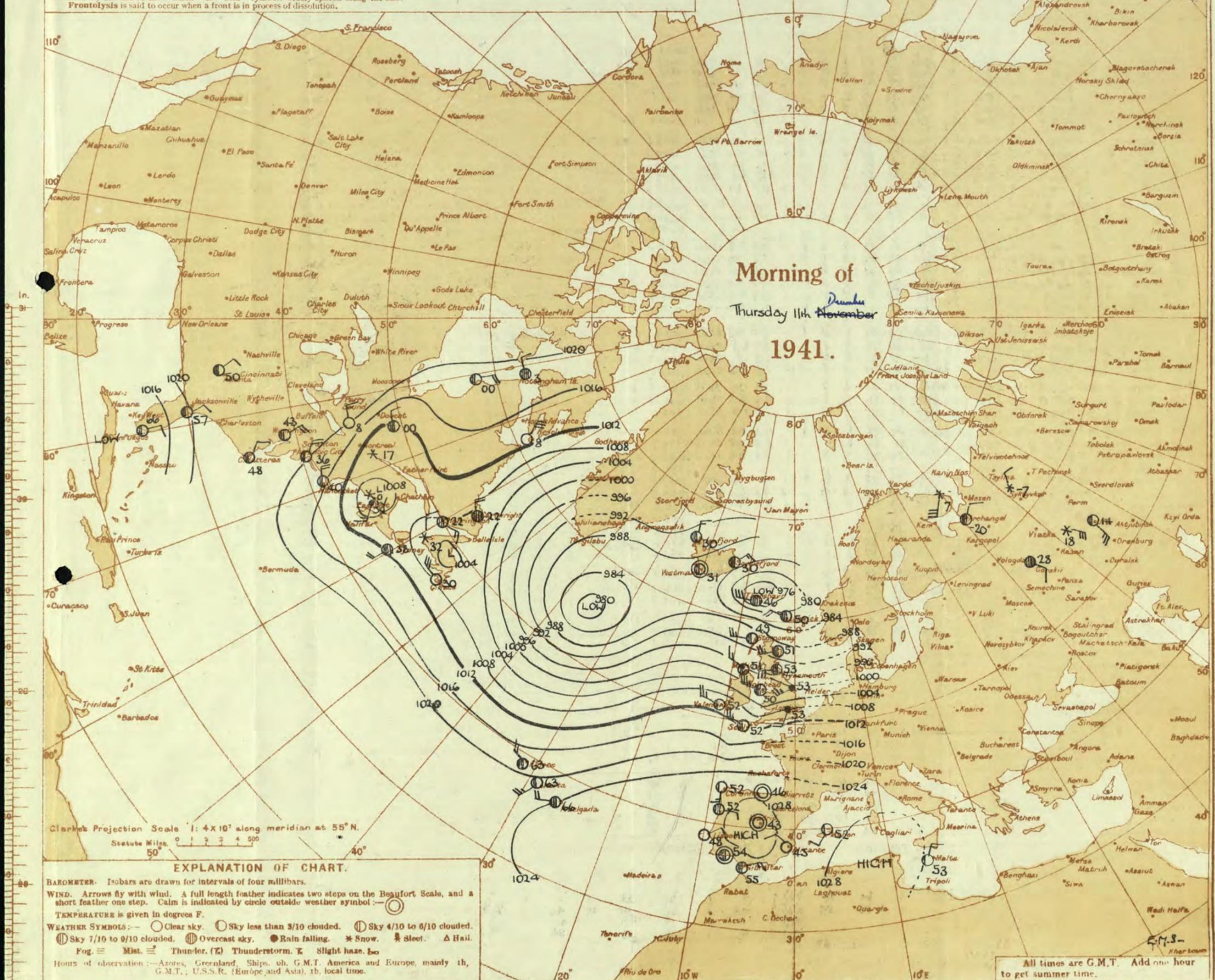
Forecasts issued at 10.30h. G.M.T.
 H.M.S.O. Press, Meteorological Office, Dunstable.
 N. K. JOHNSON, D.Sc., A.R.C.S., Director.

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 of 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
December
 Thursday 11th November
 1941.



Clark's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: ○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◒ Sky 7/10 to 9/10 clouded. ◓ Overcast sky. ☔ Rain falling. ❄ Snow. ⚡ Hail. ☁ Fog. ☁ 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.

SECRET
 Friday 12th December 1941.
 No. 29,240.

**AIR
 MINISTRY.**

THE DAILY WEATHER REPORT
 OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 13h. G.M.T. 11th December														OBSERVATIONS at 18h. G.M.T. 11th December														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. m.	Cloud.			Barom. M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.			State of Ground.	Sea. 0-9	WEATHER.					
				Dirac.	Force.					Low.	Med.	High.			Low.	Med.					High.	Low.	Med.			High.	7h.—13h. 11h.—	13h.—18h. 11h.—	18h.—11h. 12h.—	11h.—7h. 12h.—	
																															Form.
1	London (Kew) ... Croydon ... S. Farnborough ... Boscombe Down ... Thorney Island ... Lympe ... Manston ...	1014.2 1014.3 1014.4 1015.0 1015.3 1015.3 1014.2	+1 +1 +6 +6 +18 +18 +2	WSW W W WSW WSW WSW W	3 3 4 2 4 4 2	c c c c c c c	53 55 52 51 54 52 52	85 75 75 85 75 75 75	7 5 7 7 7 1 1	5 4 7 7 4 1 1	2-3 T 4-6 4-6 2-3 1 1	2500 2500 1700 2500 2500 1500 3000	1014.8 1014.1 1014.3 1015.0 1015.3 1016.7 1015.2	-4 0 -4 -2 0 +8 +8	SW SW SW SW SW SW SW	3 3 3 4 3 3 3	c c c c c c c	51 51 51 50 51 49 49	85 85 85 85 85 85 85	6 6 7 5 5 6 6	5 5 5 5 5 5 5	2 - - - - 7 7	7-8 10 10 10 10 7-8 7-8	1500 1800 3000 1800 2700 3600 3600	1 1 1 1 1 1 1	*	cb, zc bc, cz ebcc c bc, zc bbc bbcc	cmid c ccw c ido e cem	cmoc cmo cidomc cm, d, c baccmo	cid. cm, d, d cm, d cid. cid. cidom	
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1013.7 1012.7 1011.1 1011.6 1023.3	+2 +3 +4 +18 +22	W W W WSW W	3 4 4 4 5	c c c c c	52 51 51 51 51	75 75 75 85 75	8 5 7 8 7	5 4 3 2 3	2-3 3 2-3 7-8 2-3	3500 2500 2500 2500 2500	1014.8 1013.7 1012.6 1012.6 1010.2	+4 0 +2 +2 -6	SW SW SW SW SW	3 3 3 4 4	c c c c c	50 47 48 50 49	82 85 75 85 85	5 5 5 5 5	5 5 5 5 5	6 - - - -	4-6 4-6 3-4 3-4 10	2500 2500 1500 3600 3600	1 1 1 0 1	3	cm, bz bec c c cmz	cm cbe cbe cem cem	cmo cmo bccz cmoc cmo	cm, m cmoc cm cm cm	
3	Birmingham Upper Heyford	1011.3 1012.4	+10 +12	WSW WSW	3 5	c c	49 50	75 75	8 8	7 7	2-3 4-6	2500 2500	1010.8 1012.7	-8 -4	SW SW	3 4	c c	50 49	73 85	8 8	5 5	5 5	- -	10 10	800 1200	0 1	*	bec ebcc	cc ccige	ccmo ccp	nr, re cbcq
4	Ross-on-Wye	1012.7	0	SW	3	c	51	75	8	5	8-10	3000	1012.0	0	SW	4	c	51	85	8	5	1	-	10	2500	1	*	c	ccm	ccp	nr, cbc
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Soilly (St. Mary's) Guernsey ...	1013.7 1014.1 1016.0 1016.4 1016.3 1015.3	-2 +2 +12 +2 +4 +2	W W WSW WSW W WSW	5 4 5 5 4 4	c c c c c c	51 52 52 54 52 53	85 85 82 85 82 85	7 5 8 7 8 8	5 2 - - 2 2	7-8 10 10 9 9 7-8	1000 1000 2500 1800 1500 1500	1011.7 1013.4 1016.2 1015.8 1015.4 1013.8	-10 -6 +2 -6 -6 -14	WSW WSW SW SW SW WSW	5 4 4 4 5 5	c c c c c c	52 51 51 51 53 53	85 85 82 87 82 82	8 7 5 5 7 7	5 5 5 5 5 5	2 - - - - -	7-8 10 10 10 10 10	1500 2300 2500 1500 1000 1200	1 1 1 1 1 1	5	cige bec c bc, zc ebcc	cige cidme c c c c	cmo bc, c cmo cmo cmo	nr, cbc cidpr orr cm, r, c cidoc	
6	Pembroke	1012.8	-2	SW	6	c	53	85	7	6	7-8	4000	1010.1	-20	SW	6	c	53	85	7	5	1	-	10	1500	1	4	ccpr	ccpr	ccmo	nr, cbc
7	Holyhead (Valley) Chester (Sealand)	1009.3 1010.2	-2 -6	SW WSW	5 3	c c	52 52	85 75	8 7	5 7	9 4-6	2500 2000	1008.2 1008.3	-22 -12	SW SW	6 3	c c	52 53	85 75	6 7	5 5	- -	10 10	1500 2200	1 1	4	bec ebcc	ig, cz c	rd, c cm, d, d	bc, b c r, c	
8	Manchester	1009.7	+6	SW	4	c	50	75	7	4	4-6	3000	1008.0	-8	SW	4	c	50	85	7	5	-	10	10	3700	1	*	c	cc	ccmo	nr, c
10	Spurn Head Catterick Tynemouth	1008.9 1006.5 1004.4	+3 +8 +10	W W SW	4 4 5	c c c	50 50 51	75 85 75	7 5 6	4 2 2	9 7-8 7-8	2500 2100 2800	1009.4 1006.4 1005.1	0 -6 -8	SW SW W	3 4 4	c c c	46 51 51	85 75 75	7 6 8	5 5 8	- - -	10 10 10	1500 1500 2500	1 1 3	*	bec bec	cc, cz c	cidom cq	ebcb bc	
11	St. Abbs Head Leuchars	1001.4 1000.3	+14 +12	WNW W	3 5	c c	51 50	75 85	8 8	7 7	7-8 T	2500 3500	1001.7 1000.1	-16 -2	W WSW	3 3	c c	50 48	75 85	8 5	4 5	4 -	4-6 9	2500 2500	0 1	*	b, bec bc	c c, bz, cz	ccmo ccmo	nr, cbc cpr, mcb	
12	Reatrow (Abbots L.) Eskdalemuir Point of Ayre	1003.6 1004.6 1006.6	+14 +12 +4	WSW SW W	4 4 5	c c c	50 47 51	85 85 85	8 8 8	5 5 2	9 10 1	1500 800 1800	1002.8 1002.8 1004.0	-22 -16 -14	WSW SW SW	3 5 5	c c c	51 46 52	85 82 85	8 8 8	5 5 2	- - -	10 10 10	1800 2200 2000	1 1 0	4	cige c	cc, cz c	nr, r, c nr, c pr, c	pr, c bcc	
13A	Tiree	1000.8	-6	SW	4	c	49	85	8	3	4-6	2100	993.9	-36	SW	5	c	49	87	6	2	-	10	1200	1	5	ccpr	ccpr	ccmo	nr, cbc	
13B	Stornoway	998.7	+14	SW	4	c	47	82	8	3	7-8	1500	991.8	-34	SW	7	c	50	87	7	5	7	-	10	1000	1	5	c	ccpr	ccpr	ccmo
15	Dalwhinnie Aberdeen Wick Sumburgh	1001.3 999.2 998.1 993.5	+14 +14 +26 +34	WSW SW WSW W	3 1 3 3	c c c c	47 51 45 47	85 75 85 75	8 8 7 8	3 7 7 7	4-6 9 9 4-6	1500 2600 3500 1500	998.4 998.5 996.3 996.5	-14 -12 -12 +14	SW SW SW W	4 3 1 1	c c c c	44 48 44 44	82 82 85 75	5 5 7 8	5 5 5 5	- - - -	10 10 10 10	1500 2200 3500 2500	1 1 1 1	*	cc becz ccpr ccpr	cc, cz c c c	nr, r, c nr, r, c pr, c nr, r, c	nr, cbc pr, c pr, c	
17	Blacksod Point	1001.7	-22	SW	5	c	52	82	7	6	10	1500	995.8	-28	SW	8	c	54	82	7	5	-	10	800	2	6	c	ccpr	ccpr	ccmo	nr, cbc
18	Malin Head Aldergrove	1000.7 1006.0	-20 -14	W SW	4 3	c c	49 47	85 82	8 7	8 5	4-6 9	2500 700	994.7 1000.8	-44 -34	SW SW	5 4	c c	51 51	85 85	6 8	5 5	7 7	- -	10 10	1500 2300	0 1	5	c pr, cz	ccpr	ccmo	nr, cbc nr, cbc
19	Birr Castle	1006.9	-10	SW	2	c	52	85	8	5	7-8	2500	1002.0	-14	SW	4	c	53	85	7	6	2	-	10	1500	1	*	bc	ccpr	ccmo	nr, cbc
20	Valentia Obey Roches Point	1007.3 1010.0	-24 -10	SW SW	6 4	c c	53 53	85 85	6 5	2 -	9 9	1500 1500	1003.2 1006.0	-10 -26	SW SW	6 6	c c	55 53	87 82	6 6	5 5	- -	10 10	450 450	1 1	5	pr pr	ccpr	ccmo	nr, cbc nr, cbc	

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

<p>COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.</p> <p>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.</p> <p>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, 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 existing weather from preceding conditions thus: -bc/r, fair weather after rain; -, has decreased; +, has increased.</p>	<p>COLUMNS 9, 23.—FORM OF LOW CLOUD.</p> <p>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.</p> <p>COLUMNS 12, 13, 26, 27.</p> <p>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.</p>	<p>COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.</p> <p>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.</p> <p>Cloud form abbreviations— Cirrus, -Ci: Cirrocumulus, -Cc: Cirrostratus, -Cs: Alto cumulus, -Ac: Altostratus, -As: Stratocumulus, -Sc: Stratus, -St: Nimbostratus, -Ns: Cumulus, -Cu: Cumulonimbus, -Cb.</p> <p>COLUMN 29—STATE OF GROUND.</p> <p>0 .. Ground dry. 1 wet. 2 flooded. 3 frozen hard and dry. 4 partly covered with snow or hail. 5 covered with ice or glazed frost. 6 covered with thawing snow.</p> <p>7 .. Ground covered with snow, less than 6 ins., deep but ground not frozen. 8 covered with snow, less than 6 ins., but ground frozen. 9 covered with snow greater than 6 ins. deep. Fresh snow has fallen in the mountains.</p>
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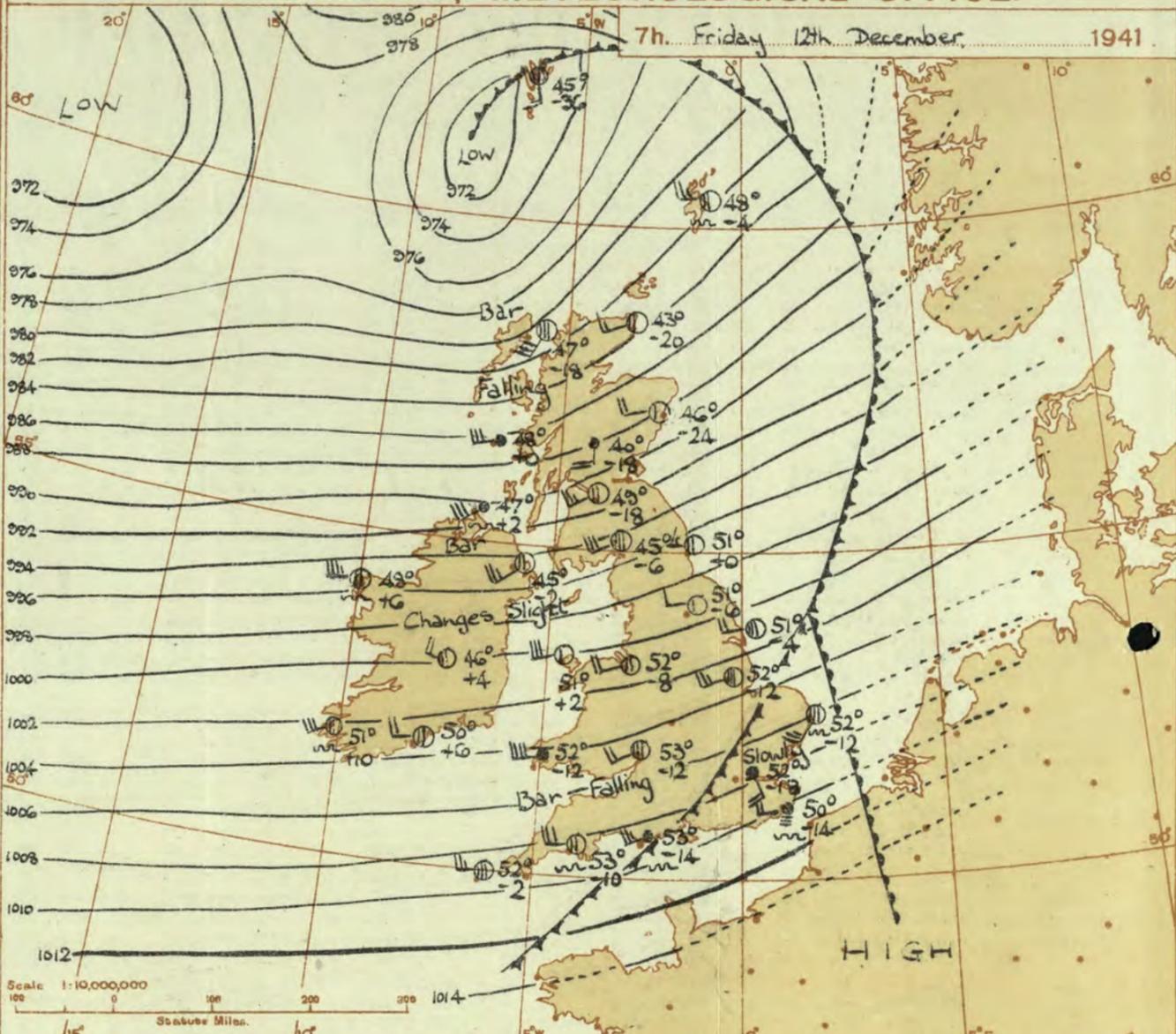
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 11th December 1941				15h. G.M.T. 12th December 1941				17h. G.M.T. 12th December 1941				
III	C ₁	wwVhN ₁	DDFWN ₁	C ₂	wwVhN ₂	DDFWN ₂	C ₃	wwVhN ₃	DDFWN ₃	C ₄	wwVhN ₄	DDFWN ₄
109	5-	61847	23427	5-	02748	21228	5-	64748	49568	8-	01864	18414
115	52	81844	26487	52	81834	20387	52	62834	20587	52	88844	53587
203				85	02945	18528	5-	02944	53664	5-	61648	20728
206	53	02065	22326	57	02864	22225	52	64755	53667	8-	81855	53585
210	57	02064	20327	57	02955	12228	50	01963	51613	50	00962	51682
220	83	25844	25486	62	59316	22558				53	01744	24515
230				5-	21748	16258	8-	25745	53685	80	27853	53596
245	57	02051	22316	57	02766	18327	51	21943	53554	50	00951	53481
260	57	02745	22517	57	51755	19428	07	02887	53627	50	00861	20581
27857	02875	20267	57	02745	18368	20	00842	55482	50	00852	54412	
279	50	02744	21457	5-	21668	51558	62	21635	51758	50	00762	53582
285	27	02744	24687	27	81745	26687						
288	52	02853	22415	52	02866	19427	5-	05657	17517	50	05641	54513
5755	02847	14357	6-	51738	50468	00	00753	55513	83	01752	55688	
301	5-	05646	22527	52	21644	20658	5-	21646	53666	5-	01751	55624
321	57	05654	56466	57	05665	17328	52	05644	51528	51	05644	55428
299	50	01744	24204				5-	05647	22427	51	05644	22315
292	57	01853	21314	5-	05568	20328	57	02745	51467	5-	02666	20426
310	--	10636	24516	--	52428	20458				--	02638	20428
31456	05654	55665	5-	05658	55628	51	05655	53528	51	05663	20458	
333	5-	02847	20317	5-	05667	18657	51	05644	51655	5-	01754	20464
334	--	02846	26417	--	03646	26428				--	64547	20368
340	50	02845	22427	5-	21748	14458	5-	21748	49458	5-	22867	55469
136	50	02763	23585	5-	05658	20428	07	02900	18528	57	02845	19627
336	52	02763	28327	52	02754	20428				62	64626	24568
350	57	02553	56428				57	05646	55528	5-	51628	55458
368	5-	22747	21587	5-	05638	20558	5-	51648	20458	50	05643	53564
379	52	02753	24428	5-	02758	20558	5-	51638	53558	26	02746	53568
390	50	02743	22527				50	05653	55528	5-	22638	53568
382	57	02754	24418	5-	61768	21468	52	51666	53428	57	02744	21428
438							-2	67109	22549			
430				5-	63648	24528	5-	52625	53568	52	54526	54658
400	5-	52627	22557	5-	22658	18568	5-	52428	18658	62	02637	22658

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, N₁ - Height and amount of low cloud - See M.O. 252.
 N - Total amount of cloud - See M.O. 252.
 C, C₁ - 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. Friday 12th December, 1941.
1 S.E. England	Mainly fresh S.W. winds; considerable bright periods; some showers occasionally, with possibility of hail locally. Average temperature.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	↓
6 South Wales ...	↓
7 North Wales ...	↓
8 N.W. England	↓
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	↓
12 S.W. Scotland & Isle of Man.	↓ Winds between S.W. and W. rather squally, strong perhaps gale at times locally on the coast; changeable; fair periods; some occasional rain or showers with hail locally; Average temperature.
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 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 very deep low pressure system covers the North Atlantic with centres near Faeroes and south of Iceland. Secondary disturbances are likely to move in from the Atlantic in the general current of westerly winds. Weather will be rather changeable with considerable bright periods in the east and south but with some occasional rain or showers with hail locally. Winds are likely to be strong at times.

FURTHER OUTLOOK.
 Continuing generally unsettled and changeable.
 ↓ Gale warning in operation in districts 5, 6, 7, 8, 11, 12, 13 (A and B) 15, 16, 17, 18, 19 and 20.
 Time of issue 1145h on 11:12:41; and 2045h on 11:12:41.

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.)

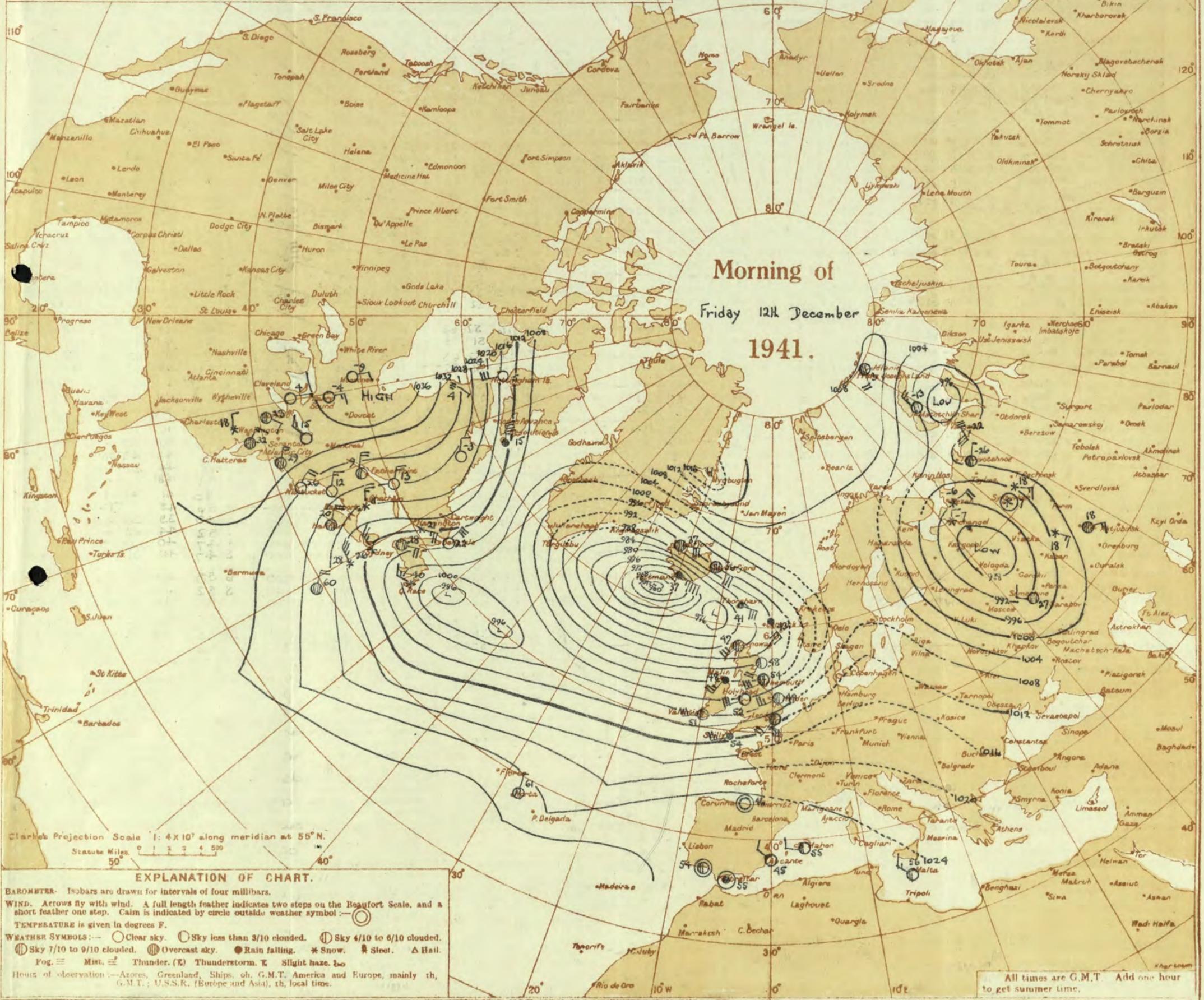
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

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

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

PAST 24 HOURS.

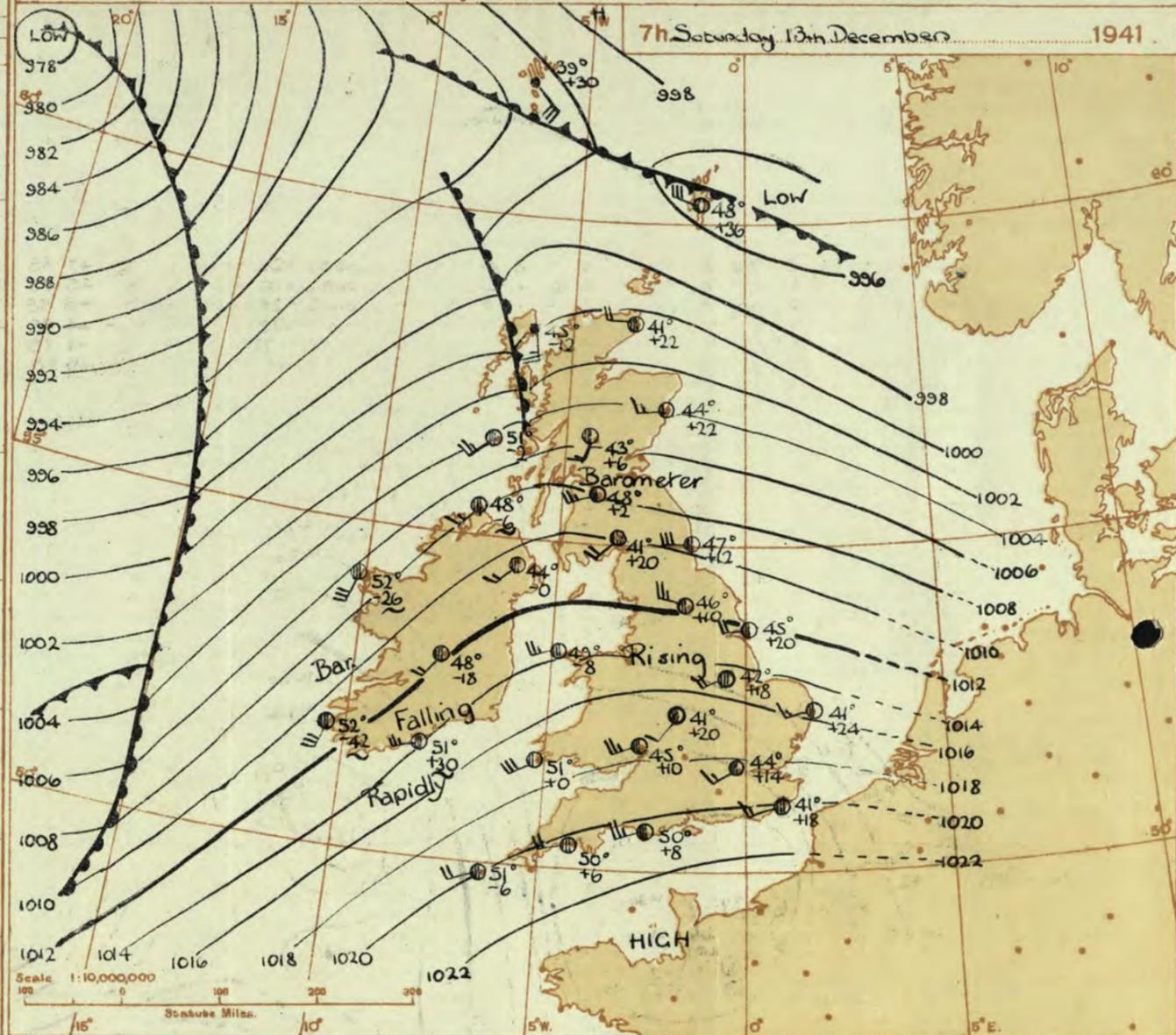
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUNSHINE. (36)
					Direc.	Force.					Form.	Amount.	Height of Base (feet) (14)	Direc.	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	1011.7	-24	SSW	4	c	52	85	6	5	3	3	4000	1006.3	-20	SW	4	id	53	92	6	5	10	10	1500	1	53	50	45	Tr	2.5				
	Croydon	217	1011.3	-22	SWW	4	z	52	85	6	5	10	10	1200	1008.1	-18	SW	4	id	52	97	6	5	10	10	1000	1	53	49	45	Tr	0.2				
	S. Farnborough	226	1011.7	-20	SSW	6	z	52	85	6	5	2	4.6	2000	1008.5	-14	SW	6	id	53	97	6	5	10	10	600	1	54	49	48	Tr	0.4				
	Boscombe Down	417	1012.9	-18	WSW	4	id	51	97	6	5	10	10	1000	1008.9	-18	WSW	4	id	53	97	5	5	10	10	800	1	54	49	48	Tr	0.4				
	Thorney Island	10	1012.9	-18	WSW	4	id	51	97	6	5	10	10	1000	1008.9	-18	WSW	4	id	53	97	5	5	10	10	800	1	54	49	48	Tr	0.4				
	Lymington	346	1014.7	-16	SW	5	c/r	51	92	7	5	3	10	1500	1011.5	-14	WSW	4	df	50	97	3	1	10	10	1500	1	53	48	44	Tr	0.1				
	Manston	154	1012.8	-18	SWW	4	z	51	85	6	5	10	10	2800	1009.4	-14	SWW	5	o/d	51	97	6	5	10	10	1000	1	54	48	43	Tr	4.6				
2	Shoeburyness	11	1012.1	-22	SW	4	c	51	85	5	5	6	4.6	2500	1008.5	-18	SW	4	c	51	92	6	5	10	10	2500	1	53	50	45	Tr	2.8				
	Felixstowe	15	1010.8	-18	SW	4	z	50	85	6	5	10	10	2700	1007.2	-14	SW	5	c	50	92	8	5	10	10	1000	1	53	47	43	Tr	0.9				
	Gorleston	5	1009.6	-24	SW	5	c	51	75	7	5	10	10	1500	1006.6	-12	SW	5	c	52	85	6	5	2	4.6	2500	0	53	47	44	Tr	0.1				
	Mildenhall	19	1009.3	-22	SSW	5	c	50	85	7	5	7	4.6	2500	1005.5	-14	SW	5	c/r	53	92	7	5	7	4.6	1500	0	52	50	44	Tr	0.4				
	Cranwell	240	1006.3	-14	SW	6	z	50	85	6	5	7	7.8	2000	1002.6	-12	SW	5	z	52	85	6	5	7	7.8	3500	1	55	49	47	Tr	1.8				
3	Birmingham	535	1003.3	-18	SSW	4	z	50	85	6	5	10	10	1100	1004.7	-26	SW	4	c/r	51	92	8	8	7	7.8	3000	1	51	49	45	Tr	1.1				
	Upper Heyford	408	1003.3	-18	SSW	4	z	50	85	6	5	10	10	1100	1004.7	-26	SW	4	c/r	51	92	8	8	7	7.8	3000	1	51	49	45	Tr	1.1				
	Ross-on-Wye	223	1003.3	-18	SSW	4	z	50	85	6	5	10	10	1100	1004.7	-26	SW	4	c/r	51	92	8	8	7	7.8	3000	1	51	49	45	Tr	1.1				
5	Hartland Point	299	1007.3	-16	WSW	6	ir	52	97	6	5	2	4.6	1500	1005.9	-8	WN	5	bc	52	92	7	5	4	4.6	1500	1	52	51	50	0.3	3				
	Bristol	209	1009.2	-22	SW	5	c/d	52	85	7	5	2	7.8	1900	1005.7	-14	SSW	4	c/r	54	85	7	5	4	2.3	7.8	1000	1	53	49	42	Tr	0.8			
	Portland Bill	32	1012.5	-6	SW	5	c	52	92	7	5	2	7.8	1500	1008.8	-14	SW	5	rr	53	92	7	5	10	10	2500	1	53	50	42	Tr	0.1				
	Plymouth	82	1011.7	-20	SW	7	ir	52	97	5	5	10	10	800	1009.0	-10	W	6	c	53	97	7	1	3	2.3	2000	1	54	51	51	Tr	0.1				
	The Lizard	240	1011.4	-18	SW	7	d/d	53	97	6	5	10	10	1000	1003.8	-4	W	6	bc	52	97	8	4	10	10	2500	1	53	51	51	Tr	0.6				
	Scilly (St. Mary's)	163	1010.2	-8	WSW	5	d/d	54	97	5	5	10	10	1000	1008.9	-2	W	5	c	52	97	7	5	10	10	1500	1	54	52	51	Tr	0.0				
	Guernsey	175	1010.2	-8	WSW	5	d/d	54	97	5	5	10	10	1000	1008.9	-2	W	5	c	52	97	7	5	10	10	1500	1	54	52	51	Tr	0.0				
6	Pembroke	142	1006.0	-14	SWW	8	ir	53	97	6	8	2	7.8	1500	1004.0	-12	WS	8	ir	52	65	7	8	10	10	1500	1	53	49	45	Tr	3				
	Holyhead (Valley)	26	1001.9	-14	SW	6	z	52	97	6	5	10	2.3	2500	1000.7	+2	WSW	6	b	51	75	7	5	3	1	3000	1	53	50	47	Tr	0.2				
	Chester (Sealand)	16	1003.5	-20	SSW	3	d/d	55	85	6	5	10	10	2400	1001.3	-8	SWW	4	bc	52	65	7	5	3	2.3	4.6	3500	1	53	51	43	Tr	0.5			
	Manchester	235	1004.2	-20	SW	6	id	54	85	7	5	10	10	2500	1001.1	-10	SWW	4	c	51	75	7	5	1	9	10	2500	1	51	49	43	Tr	0.5			
10	Spurn Head	29	1004.9	-26	SW	5	c	49	85	7	5	10	9.4	1500	1001.9	-4	WSW	4	c	51	92	7	5	1	4.6	7.8	1500	0	50	45	45	Tr	2.8			
	Catterick	175	1000.9	-24	SSW	2	c	53	85	7	5	7	7.8	1400	998.4	-6	WS	2	b	51	75	7	1	4	1	2.00	0	52	50	50	Tr	0.1				
	Tynemouth	108	998.8	-20	SW	6	cq	54	92	7	2	10	7.8	2500	996.5	0	W	3	bc	51	75	7	1	4	1	2.3	2.3	4000	1	53	50	50	Tr	0.1		
11	St. Abbs Head	280	993.6	-34	W	5	bc	52	85	8	4	4	2.3	2500	993.1	+2	SW	5	bc	46	85	8	4	4	2.3	2.3	2500	0	47	46	42	Tr	0.1			
	Leuchars	36	991.7	-36	SW	7	bc	53	85	6	5	10	9.4	1800	990.6	-18	SW	5	z	46	85	6	5	10	2.3	2.3	2500	1	50	46	42	Tr	0.4			
	Renfrew (Abbots L.)	19	994.1	-10	WSW	6	bc	52	65	8	5	1	2.3	2500	992.0	-18	SW	5	bc	49	75	7	8	10	4.6	4.6	2000	1	51	48	43	Tr	0.0			
	Eskdalemuir	794	997.9	-18	WSW	6	c	54	85	8	5	1	4.6	3000	994.5	-6	SW	6	bc	45	85	7	5	3	4.6	4.6	1500	1	48	44	42	Tr	0.6			
	Point of Ayre	30	997.9	-18	WSW	6	c	54	85	8	5	1	4.6	3000	996.3	-8	WS	6	bc	50	75	8	9	10	4.6	4.6	1800	0	52	48	48	Tr	1.8			
13A	Tiree	22	988.7	0	SW	5	bc	48	85	8	9	7	4.6	2500	986.9	0	WSW	6	pr	48	75	7	8	10	7.8	7.8	1500	1	50	41	41	Tr	0.0			
	Stornoway	80	984.2	+2	SSW	7	bc	47	85	7	8	7	2.3	4.6	1000	980.4	-18	SSW	6	ir	47	85	7	5	7	7.8	10	1000	1	50	45	45	Tr	0.0		
15	Dalwhinnie	1176	988.7	0	SW	5	bc	48	85	8	9	7	4.6	2500	986.9	0	WSW	6	pr	48	75	7	8	10	7.8	7.8	1500	1	50	41	41	Tr	0.0			
	Aberdeen	79	988.7	0	SW	5	bc	48	85	8	9	7	4.6	2500	986.9	0	WSW	6	pr	48	75	7	8	10	7.8	7.8	1500	1	50	41	41	Tr	0.0			
	Wick	119	986.2	-42	SW	5	c	49	85	8	5	1	4.6	7.8	2500	984.2	-20	SW	3	bc	43	85	8	5	1	2.3	4000	1	47	40	37	Tr	0.1			
	Sumburgh	30	987.7	-60	SE	4	o/r	45	92	6	5	10	10	1500	982.9	-4	W	5	bc	48	85	8	2	3	2.3	4.6	2000	1	47	40	31	Tr	0.0			
17	Blacksod Point	18	995.4	-4	SW	6	bc	50	75	7	2	10	2.3	1500	995.7	+6	WS	7	bc	48	85	7	9	10	4.6	4.6	1500	1	55	47	47	Tr	2			
	Maln Head	84	992.9	+2	SSW	5	pr	48	75	6	9	10	7.8	1500	990.5	+																				

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. (2nd December 18h. G.M.T.)				01h. G.M.T. (3rd December 07h. G.M.T.)								
III	C ₁	wwVhN	DDFWN	C ₁	wwVhN	DDFWN	C ₁	wwVhN	DDFWN			
109	37	81844	20520	37	81744	18485	30	25745	53085	8-	00753	57083
115	87	81844	53580	52	81834	24587	87	14244	57780	52	03735	20588
203	8-	02837	20787				5-	03888	20088	5-	03838	20028
206	80	25054	22380	9-	82748	55088	8-	25754	55484	83	81855	22485
210	06	01052	51523				8-	25857	53087	53	02054	22387
220	80	08747	26087									
230	3-	81857	54487	9-	81048	87788	8-	25747	56087	8-	25788	53488
245	30	00741	50083	30	00741	55012	50	00851	23501	5-	00858	24318
260	30	10743	20483	50	00753	53083	00	00700	23500	5-	02748	22588
278	02847	50017		50	00853	57083	20	00844	58581	87	02854	21428
279	3-	10850	55017	40	01753	55023	50	01853	57013	87	02855	55027
285	20	25854	24584	20	81755	28085				5-	02748	20028
288	30	00853	55583	50	00851	53401	50	01875	53405	52	02780	20318
275	578	81047	57587	30	25743	53583	5-	25758	24388	62	02744	20427
301	43	01751	22514	30	00753	58883	00	00700	57780	50	01751	55614
321	13	05053	20584	5-	81054	23384	5-	05075	53505	5-	02758	25328
299	50	05043	22403				00	00700	24300	53	02754	24310
292	30	25843	55583	40	01853	54483	5-	02707	-----	57	02755	23310
310	--	01033	24413	--	01033	24513				--	02028	20428
314	33	05054	22324	50	05050	55300	00	05050	50500	53	05054	20225
333	23	01853	57013	2-	01853	24513	50	00851	24411	51	02803	24317
334	--	04040	28408				--	00700	20201			
340	3-	01754	24384	2-	25857	55587	50	00703	50413	07	02700	20317
136	43	01703	20584	00	00700	21510	50	01873	22503	03	02700	20517
330	52	02764	24527	2+	02754	24515				14	01753	24415
350	80	00842	53082				57	01702	54404	57	02754	21420
308	3-	82047	55587	30	82045	57085	00	00700	57500	5-	05004	21327
379	23	02755	22485	20	25734	22484	00	00700	22400	00	05000	22428
390	83	05052	24505	00	05050	22400	50	00701	23401	07	02700	23418
382	83	02855	55425	40	00703	57403	00	00700	24400	01	02700	20338
438	5-	02755	24045				5-	02705	24400	5-	02705	24515
430	83	01744	54425	80	00744	24381	00	00800	24400			
409	54	02755	50085	30	25742	57082	20	01753	58583	50	02752	23417

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_h - Height and amount of low cloud - See M.O. 252.
 N - Total amount of cloud - See M.O. 252.
 C, C₁ - 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. Saturday 13th December
1 S.E. England	Moderate W. wind backing S.W.; cloudy; rain later; becoming milder.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Freshening S.W. wind, strong to gale on coasts, decreasing and veering W. later; cloudy; rain at times; mild.
6 South Wales ...	
7 North Wales ...	
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	Fresh westerly wind backing S.W., becoming strong to gale on western coasts; cloudy; rain at times; becoming rather mild.
13A W. Scotland	
13B N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	Wind moderate or fresh, variable; cloudy; rain at times; average or rather low temperature.
17 N. W. Ireland	
18 N. E. Ireland	Strong S. to S.W. wind, gale on coast, decreasing and veering W. later;
19 S. E. Ireland	cloudy with rain today, fair periods but some showers later; rather mild at first
20 S. W. Ireland	average temperature later.

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 deep depression to S.W. of Iceland is moving slowly N.E. and an associated trough is approaching the British Isles from the west. A small secondary to S.W. of Ireland will move N.E. Weather will be generally cloudy and rain will commence in S.W. districts today and spread N.E. across the country. Southwesterly gales will occur on the western coasts.

FURTHER OUTLOOK
 Mainly cloudy and rather mild weather; risk of fog locally in England. Gale warning in operation in districts 5, 8, 12, 13(a and b), 17, 18, 19, and 20. Times of issue:—
 1145 on 11/12/41 and 0830 on 13/12/41

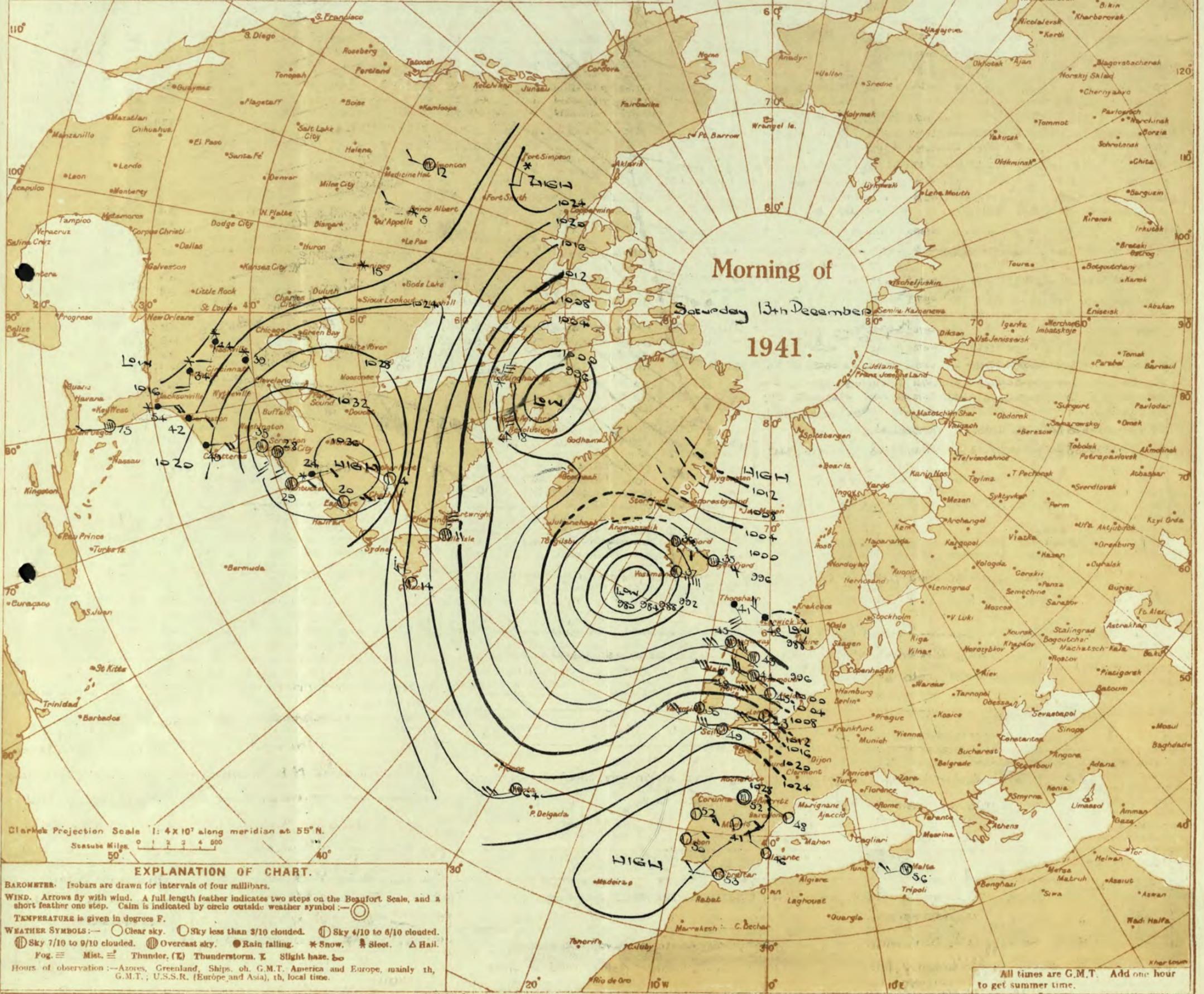
Forecasts issued at 10.30 a.m.
 H.M.S.O. Press, Meteorological Office, Danby.

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.

OBSERVATIONS at 1 hr. G.M.T. 13th December															OBSERVATIONS at 7 hr. G.M.T. 13th December															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. (15)	Change in 3 hours.	Wind.		Temp. °F.	Humid. %	Visibility.	Cloud.					Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE 12th.					
					Dir.	Force.				Weather.	Form.	Amount.		Height of Base (feet).			Dir.	Force.				Weather.	Form.	Amount.		Height of Base (feet).		State of Ground.	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.		Night 18h-7h mm.				
												Low.	Med.											High.	Low.										Med.	High.	Low.	Med.
1	London (Kew)	18	*	*	*	*	44	*	*	*	*	2-3	2-3	4000	1013.4	+18	WSW	2	C	44	85	6	5	-	3	3	4000	1	*	55	42	35	3	-	2.5			
	Croydon	217	1015.8	+3.2	WSW	4	43	75	6	5	-	2-3	2-3	4000	1013.4	+14	SW	3	C	44	85	6	5	-	3	3	10	1	*	55	41	34	3	Tr	1.5			
	S. Farnborough	226	1016.2	+2.6	WS	3	42	85	7	5	-	0	0	-	1013.8	+12	WSW	4	C	42	85	7	2	7	6	2-3	7-8	3000	1	*	54	40	36	3	1	2.1		
	Boscombe Down	417	1017.2	+2.4	W	3	41	85	7	6	-	0	0	-	1020.3	+10	WS	2	C	40	85	6	-	7	-	0	3	-	1	*	53	37	32	3	1	3.2		
	Thorney Island	10	1017.5	+2.6	WS	4	41	85	7	5	-	Tr	Tr	2500	1020.8	+10	WSW	3	C	47	85	7	-	7	-	0	3	-	1	*	55	40	39	2	1	1		
	Lymington	346	1016.1	+2.6	W	4	41	85	7	5	-	5	0	2-3	1020.6	+18	WSW	3	C	47	85	7	-	7	-	0	3	3200	1	*	54	39	35	4	Tr	1.8		
	Manston	154	1014.6	+3.0	WS	3	42	75	6	-	3	0	0	-	1019.5	+2.6	WSW	3	C	40	85	6	-	7	-	0	3	-	1	*	56	38	33	0.5	-	2.3		
2	Shoeburyness	11	1014.4	+2.2	SW	4	44	75	6	-	-	0	0	-	1019.9	+18	WSW	3	C	45	85	5	5	7	-	4	6	10	2300	1	*	56	43	36	1	-	1.4	
	Felixstowe	15	1013.0	+3.0	WS	4	43	75	7	5	-	Tr	Tr	2500	1017.9	+22	WSW	4	C	43	75	7	-	4	6	0	3	-	1	3	54	42	36	1	-	0.6		
	Gorleston	5	1010.4	+2.6	WSW	4	44	65	6	-	-	0	0	-	1015.7	+24	WSW	3	bc	41	75	7	-	4	-	0	2-3	-	1	3	54	41	38	2	-	0.7		
	Mildenhall	19	1011.9	+2.6	SW	5	42	85	7	5	-	2-3	2-3	4000	1016.3	+18	SW	5	C	42	85	8	-	7	-	0	3	-	1	*	55	40	35	2	-	0.7		
	Cranwell	240	1010.7	+3.0	WSW	4	42	75	6	5	-	4-6	4-6	2500	1015.0	+18	WSW	4	C	42	75	6	-	7	-	0	10	-	1	*	52	39	35	0.2	-	2.5		
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	1017.5	+20	SSW	2	C	41	85	6	-	1	-	0	3	-	1	*	51	40	37	5	0.1	2.3			
	Upper Heyford	408	1015.0	+3.4	W	4	40	85	8	-	-	0	0	-	1018.4	+16	SW	3	C	40	85	8	-	7	7	0	10	-	1	*	52	38	33	2	-	3.1		
	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	1017.7	+0	WSW	2	C	45	85	7	5	1	7	0	10	3000	1	*	53	44	37	0.5	-	3.1			
5	Hartland Point	299	1018.2	+1.8	NW	4	43	75	8	1	-	2-3	2-3	2500	1018.1	-2	WNW	4	C	50	75	8	5	1	-	2-3	7-8	2500	1	5	52	48	44	1	0.1	2.3		
	Bristol	209	1016.4	+2.4	NW	6	44	85	7	-	-	0	0	-	1019.6	+4	WSW	5	C	46	85	7	5	1	-	4	6	10	2500	1	5	55	41	35	3	0.3	1.6	
	Portland Bill	32	1018.2	+2.6	WSW	5	51	92	7	5	-	4-6	4-6	2500	1020.1	+8	WSW	5	C	50	92	7	5	7	-	7-8	10	2500	1	5	54	47	40	0.5	1.6			
	Plymouth	82	1019.4	+2.6	WNW	6	48	75	8	1	-	Tr	Tr	3000	1021.1	+6	WS	4	C	50	75	8	-	7	7	0	3	-	0	4	54	46	40	0.5	Tr	3		
	The Lizard	240	1020.7	+2.0	WNW	5	50	75	7	8	-	4-6	4-6	1500	1021.1	+2	WSW	4	C	50	75	7	8	2	-	3	10	1500	0	4	52	48	40	1	Tr	2.9		
	Scilly (St. Mary's)	163	1021.2	+1.4	WNW	5	49	85	7	8	7	3	2-3	3	1500	1020.2	-6	WSW	4	0	51	75	7	5	-	10	10	1500	1	4	53	48	40	1	0.0			
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	1020.2	-6	WSW	4	0	51	75	7	5	-	-	-	10	10	1500	1	4	53	48	40	1	0.0			
6	Pembroke	142	1017.1	+2.4	WN	6	bcq	50	85	7	2	-	2-3	2-3	4000	1017.4	0	SWW	6	bcq	51	85	7	8	1	-	2-3	4-6	2500	1	4	50	45	40	1	Tr	2.9	
	Holyhead (Valley)	26	1013.2	+2.6	W	6	b	47	75	8	5	-	Tr	Tr	3000	1014.1	-8	WSW	5	C	49	75	7	5	1	-	1	10	2500	0	5	52	49	40	0.4	-	3.0	
	Chester (Sealand)	16	1012.7	+3.0	W	4	b	47	65	7	5	-	1	1	4000	1014.8	+10	WSW	3	z	47	75	6	-	3	7	0	10	-	1	5	55	46	36	1	-	5.0	
	Manchester	235	1011.8	+3.6	WSW	4	c	45	85	7	5	-	3	3	2700	1015.1	+8	SSW	3	C	41	92	7	-	7	6	0	3	-	1	5	52	40	35	1	-	3.1	
10	Spurn Head	29	1008.0	+3.0	W	6	b	45	85	7	-	0	0	-	1013.2	+20	W	4	C	45	85	7	5	-	3	3	2500	0	4	52	43	38	1	-	1.7			
	Catterick	175	1007.1	+4.6	WSW	2	b	44	65	8	5	-	1	1	2500	1010.8	+10	WN	5	C	46	75	7	5	2	-	4	6	10	2500	0	5	52	43	38	1	Tr	3.0
	Tynemouth	108	1003.7	+4.0	WNW	6	bq	44	75	7	-	0	0	-	1008.3	+12	W	6	Cq	47	75	7	2	-	-	7-8	7-8	2500	1	4	51	43	35	1	-	3.0		
11	St. Abbs Head	280	999.0	+5.4	W	8	bq	45	92	7	4	-	1	1	2500	1006.3	+18	SW	6	Cq	46	85	7	5	7	-	4	3	2500	0	4	48	42	36	5	-	0.3	
	Leuchars	36	1000.5	+5.0	W	6	b	44	85	7	5	-	1	1	4000	1005.5	+16	WNW	3	id	45	97	7	5	-	3	3	2200	1	5	47	40	36	5	Tr	0.3		
	Renfrew (Abbots L.)	19	1004.7	+4.6	W	5	pr	43	85	6	9	-	7-8	7-8	4000	1007.0	+22	WSW	5	C	48	75	7	5	1	-	3	10	3000	1	5	53	42	43	3	1	0.2	
	Eakdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	1009.8	+20	SW'S	4	C	41	85	7	5	-	-	-	10	10	1500	1	5	46	39	37	2	-	0.1		
	Point of Ayre	30	1008.7	+2.0	WNW	6	b	45	85	8	4	-	0	Tr	-	1011.7	+4	W	5	C	48	85	7	-	2	-	0	4	50	44	40	1	-	3.4				
13	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	1004.0	-2	SWW	5	C	51	97	7	5	-	-	-	7-8	7-8	1800	0	5	51	47	40	4	1	0.0		
	Stornoway	80	996.9	+3.4	WSW	6	pr	45	85	7	5	7	-	4-6	9	2000	999.5	-12	S	5	dd	45	97	7	5	2	-	3	10	1500	1	3	47	43	3	3	0.0	
	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	1004.3	+6	SSW	3	C	43	85	7	8	-	-	-	9	3	2500	1	5	42	37	32	13	18	0.0		
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	1003.6	+2.2	W	3	C	44	75	8	-	-	-	0	1	-	1	2	43	41	34	1	-	4.6			
	Wick	119	994.4	+4.4	WN	5	pr	44	85	7	8	-	3	3	1500	999.9	+2.2	W	4	C	41	85	8	5	3	-	7-8	7-8	2500	1	5	46	39	37	0.2	3	4.6	
	Sumburgh	30	989.1	+3.6	WNW	4	pr	48	75	6	8	-	3	3	1000	996.2	+3.6	WN	6	C	48	85	7	8	-	-	3	3	1200	1	5	48	43	41	3	4	0.0	

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

Sunday 14th December 1941.
No 29242.

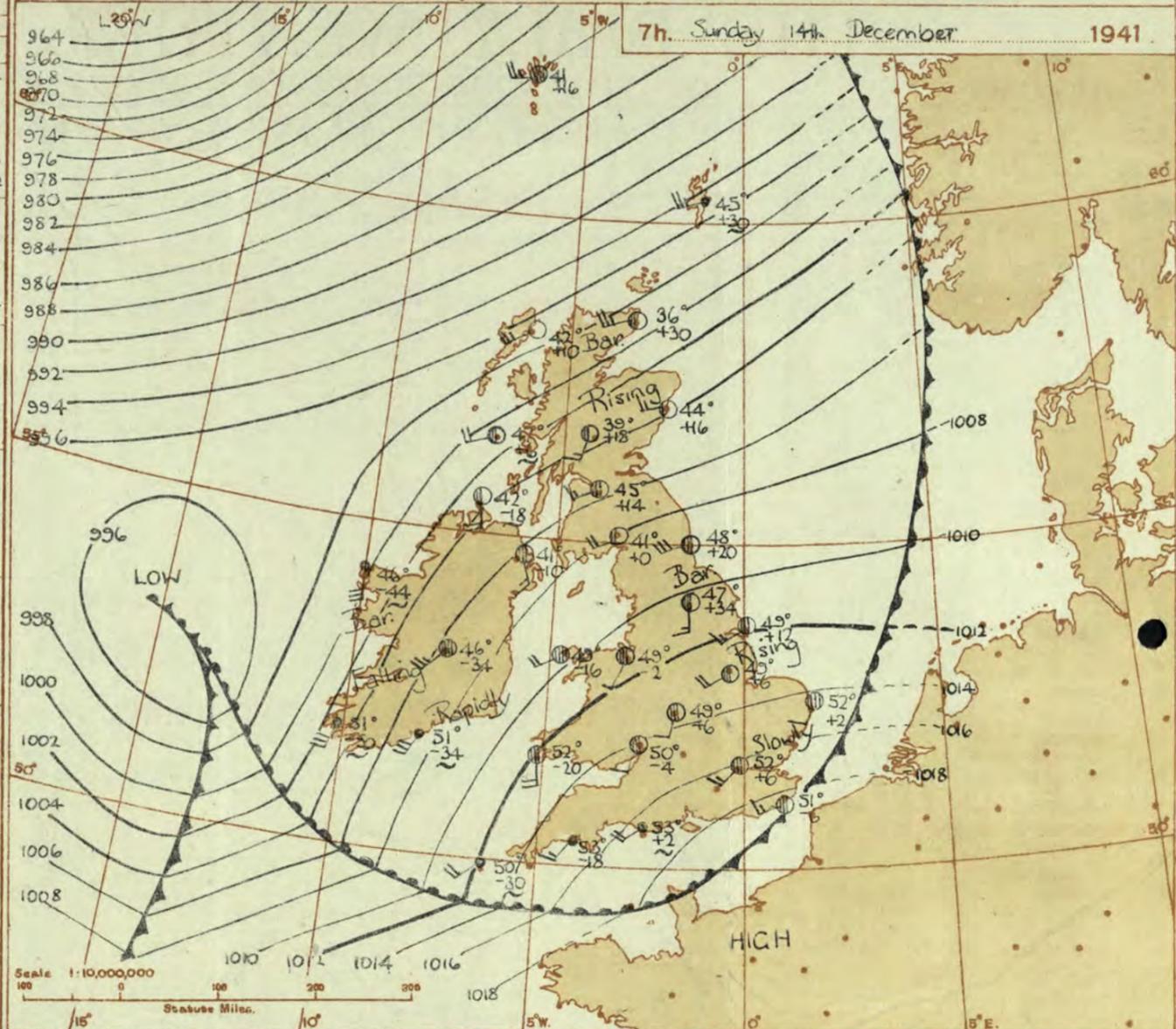
OBSERVATIONS at 13h. G.M.T. 13th December														OBSERVATIONS at 18h. G.M.T. 13th December														PAST 24 HOURS.							
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.			Barom. 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. (29)	Sea. 0-9 (30)	WEATHER.									
				Dir.	Force. 0-12 (4)					Form.	Amount. 0-10 (12)	Height of Base. (feet) (14)			Form.	Amount 0-10 (23)					Height of Base. (feet) (28)	7h.—18h. 13th (37)	13h.—18h. 13th (38)			18h.—13h. 14th (39)	1h.—7h. 14th (40)								
1	London (Kew)...	1013.2	-22	SW	3	o	49	85	6	5	7	7	10	4000	1013.3	-12	SW	4	o	50	85	6	5	2	-	9	10	1500	1	4	cm	cm	cm	cm	
	Croydon ...	1013.4	-14	SW	3	o	50	75	6	5	7	7	10	1800	1016.4	-14	SW	5	o	49	85	6	5	2	-	9	10	2400	0	4	cm	cm	cm	cm	
	S. Farnborough	1013.8	-24	SW	4	o	50	85	5	5	7	7	10	2300	1016.6	-8	SW	5	o	50	85	7	5	1	-	10	10	1700	1	4	cm	cm	cm	cm	
	Boscombe Down	1013.4	-14	S	3	o	48	85	7	5	7	7	10	2000	1016.1	-10	SW	5	o	49	85	6	5	1	-	10	10	900	1	4	cm	cm	cm	cm	
	Thorney Island	1020.0	-18	SW	3	o	52	75	7	5	2	-	9	10	2500	1017.4	-14	SW	4	o	51	85	6	5	2	-	7-8	10	3200	1	4	cm	cm	cm	cm
	Lympe	1020.8	-14	WSW	2	o	48	82	7	5	2	-	9	10	1500	1015.6	-4	SSW	3	o	49	85	6	5	1	-	10	10	1900	1	4	cm	cm	cm	cm
	Manston	1020.0	-6	WSW	3	o	48	85	6	5	7	-	1	10	5000	1018.1	+2	SW	4	o	49	85	6	5	7	-	9	10	3600	1	4	cm	cm	cm	cm
2	Shoeburyness ...	1013.3	-14	SW	2	o	48	85	6	5	2	-	0	10	1017.5	-6	SW	4	o	49	85	6	5	2	-	4-6	10	2500	1	4	cm	cm	cm	cm	
	Felixstowe ...	1013.7	-10	SW	3	o	46	85	5	5	1	-	0	10	1016.8	-16	SW	4	o	48	85	6	5	1	-	10	10	3500	1	4	cm	cm	cm	cm	
	Gorleston ...	1017.6	-2	SSW	3	o	48	75	6	5	1	-	10	10	2500	1015.9	-12	SW	4	o	46	85	6	5	1	-	9	9	1500	0	4	cm	cm	cm	cm
	Mildenhall ...	1017.6	-10	SW	3	o	46	85	6	5	7	-	0	10	1014.3	-14	SSW	4	o	48	85	6	5	2	-	7-8	10	3000	1	4	cm	cm	cm	cm	
	Cranwell ...	1015.2	-10	SSW	4	o	46	85	6	5	1	-	10	10	5000	1011.0	-22	SW	5	o	48	85	6	5	2	-	2-3	10	5700	1	4	cm	cm	cm	cm
3	Birmingham	1015.2	-16	SSW	3	o	46	85	6	5	7	-	9	10	2500	1011.2	-16	SSW	4	o	47	85	6	6	2	-	9	10	800	1	4	cm	cm	cm	cm
	Upper Heyford	1017.6	-22	SW	3	o	46	85	7	5	7	-	2-3	10	6000	1014.2	-20	SSW	4	o	48	92	6	5	1	-	10	10	700	1	4	cm	cm	cm	cm
4	Ross-on-Wye ...	1016.0	-20	SSW	2	o	49	75	7	5	2	-	9	10	2500	1012.2	-2	S	4	o	49	85	7	6	1	-	10	10	1500	1	4	cm	cm	cm	cm
5	Hartland Point	1014.8	-28	SW	4	o	51	75	7	5	2	-	7-8	9	1500	1003.5	-20	SW	6	o	52	85	6	5	2	-	7-8	10	1500	1	5	cm	cm	cm	cm
	Bristol ...	1017.5	-28	SW	4	o	50	75	7	5	2	-	9	10	3000	1013.4	-18	WSW	4	o	50	85	6	5	1	-	10	10	1500	1	5	cm	cm	cm	cm
	Portland Bill ...	1020.5	-8	SW	5	o	52	82	7	5	1	-	10	10	2500	1016.2	-16	SW	5	o	52	92	7	5	1	-	10	10	2500	1	5	cm	cm	cm	cm
	Plymouth ...	1013.1	-20	SW	5	o	52	85	7	5	1	-	10	10	1800	1014.3	-24	SW	6	o	52	97	5	5	1	-	10	10	1000	1	4	cm	cm	cm	cm
	The Lizard	1017.6	-20	SW	6	o	52	85	7	5	2	-	7-8	10	1500	1012.5	-20	SW	7	o	52	97	6	5	1	-	10	10	1000	1	5	cm	cm	cm	cm
	Soilly (St. Mary's)	1015.5	-30	SW	6	o	52	85	7	5	7	-	7-8	10	1200	1011.2	-16	SW	6	o	53	97	5	5	2	-	7-8	10	800	1	5	cm	cm	cm	cm
	Guernsey ...																																		
6	Pembroke ...	1013.7	-30	SW	7	o	51	82	7	6	2	-	4-6	10	2000	1007.8	-24	SSW	7	o	52	87	5	5	2	-	7-8	10	1500	1	4	cm	cm	cm	cm
7	Holyhead (Valley)	1009.7	-34	SW	6	o	50	82	7	6	2	-	7-8	10	1500	1003.8	-36	S	7	o	50	87	5	5	1	-	10	10	400	1	6	cm	cm	cm	cm
	Chester (Sealand)	1011.7	-30	SW	4	o	52	65	7	5	7	-	7-8	10	1200	1007.9	-24	S	4	o	52	85	6	5	2	-	7-8	10	3800	1	4	cm	cm	cm	cm
8	Manchester ...	1013.5	-18	S	4	o	47	87	6	5	7	-	9	10	3000	1008.5	-30	SSW	5	o	48	85	6	5	1	-	10	10	3000	1	4	cm	cm	cm	cm
10	Spurn Head ...	1014.1	-4	SSW	3	o	46	85	6	5	1	-	10	10	1500	1010.9	-16	SE	4	o	45	82	6	3	6	-	4-6	7-8	4000	0	4	cm	cm	cm	cm
	Catterick ...	1011.7	-6	SW	3	o	47	75	6	5	7	-	2-3	9	2000	1006.9	-28	SSW	4	o	47	85	4	5	7	-	9	10	3200	1	4	cm	cm	cm	cm
	Tynemouth ...	1009.9	-6	W	6	o	50	75	5	5	1	-	3	9	1800	1005.5	-30	SSW	6	o	49	85	6	5	1	-	9	9	1500	1	4	cm	cm	cm	cm
11	St. Abbs Head	1006.1	-4	SW	5	o	47	85	8	5	2	-	7-8	10	2500	1004.4	-36	SW	5	o	46	87	7	5	2	-	9	10	1500	1	3	cm	cm	cm	cm
	Leuchars ...	1005.2	-6	WSW	4	o	49	85	7	5	2	-	7-8	10	1200	1008.9	-42	S	3	o	47	87	5	5	1	-	10	10	900	1	4	cm	cm	cm	cm
12	Reafrew (Abbots L.)	1005.1	-22	SSW	4	o	49	75	6	5	2	-	9	10	1500	1007.4	-50	SSW	5	o	51	85	5	5	1	-	10	10	1900	1	4	cm	cm	cm	cm
	Bakdalemuir ...	1007.1	-24	SW	5	o	45	85	8	5	1	-	10	10	1500	1001.0	-30	SSW	7	o	46	87.4	4	2	-	10	10	1150	1	4	cm	cm	cm	cm	
	Point of Ayre	1008.2	-26	SW	5	o	51	75	8	8	2	-	9	10	2000	1000.9	-28	SW	6	o	52	85	7	6	2	-	4-6	10	800	1	4	cm	cm	cm	cm
13A	Tiree ...	993.4	-40	SSW	5	dr	49	87	7	5	1	-	10	10	1500	989.8	-30	SSW	6	o	49	87	7	2	-	10	10	1500	1	6	cm	cm	cm	cm	
13B	Stornoway ...	996.4	-30	SSW	7	o	50	82	7	6	4	5	4-6	9	500	986.3	-50	S	8	o	50	87	6	5	1	-	10	10	1000	1	5	cm	cm	cm	cm
15	Dalwhinnie ...	1003.8	-8	SW	4	o	44	82	7	5	3	-	7-8	9	1500	997.1	-52	SSW	3	o	43	82	6	5	2	-	9	10	1500	1	4	cm	cm	cm	cm
	Aberdeen ...	1003.2	-6	SW	2	o	49	75	6	5	7	-	1	9	2100	998.7	-12	SSW	4	o	48	85	6	5	7	-	7-8	9	1900	1	2	cm	cm	cm	cm
	Wick ...	1000.0	-10	SW	3	o	43	85	9	5	7	-	4-6	10	4000	994.4	-48	S	3	o	48	85	7	5	2	-	7-8	10	1500	1	4	cm	cm	cm	cm
16	Sumburgh ...	999.3	+10	W	3	o	48	75	7	7	-	0	9	2	2	996.6	-22	SW	3	o	47	87	6	5	1	-	10	10	1000	1	5	cm	cm	cm	cm
18	Blackod Point...	996.2	-48	S	7	RR	51	87	6	6	1	-	10	10	800	994.2	+6	SW	7	o	53	75	7												

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 13th Dec.				18h. G.M.T.				01h. G.M.T. 14th Dec.				07h. G.M.T.			
III	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN
109	52	02745	20368	5-	03658	15528	5-	02744	20428	5-	25844	22484			
115				9-	1076	22646	52	81844	18487	54	88844	24585			
203	6-	81837	20687				5-	81934	18684	10	00942	20582			
206	57	02865	22327	52	02853	10368	5-	01863	55783	5-	25853	22283			
210	57	02974	18125	5-	02858	14428	50	00863	19463	50	00962	53502			
220	82	81745	24628												
230	82	02846	19328	02	58528	18368	8-	81747	53587	03	00890	56504			
245	57	05643	22558	02	62668	51568	50	00861	54761	03	00890	55503			
260	5-	21868	18428	52	61756	51558	50	00752	53662	53	01864	18385			
278	52	02855	16428	52	58737	49468	8-	25744	55584	51	02842	20328			
279	50	51646	52528	62	64637	51668	5-	22777	52527	57	02863	20326			
285															
288	52	02154	20328	52	06654	51428	50	00762	51522	01	05690	53428			
578	67	21845	45458	62	21744	53558	5-	01754	56514	07	01790	47414			
301	5-	05555	16498	02	52558	15568	53	02754	55668	07	02790	22428			
321	5-	06578	18328				62	61638	22468	01	05690	29368			
299							5-	05645	23485	50	01734	23314			
292	57	05554	13127	3-	61688	51768	51	05644	18368	01	02790	55228			
310	--	03528	24328												
614	57	05664	18328	5-	61558	20351	57	22645	20468	02	05690	22228			
333	52	62746	18668	5-	54638	16758	51	05644	53556	5-	02758	16228			
334	--	54547	26428	--	56537	24458									
340	5-	02658	18428	5-	21848	16468	5-	21655	53465	07	05690	18318			
136	52	05661	18428	02	61688	19428	52	61645	13568	07	05690	20428			
336	52	02753	20428	6-	62526	20468									
350	52	05664	20528	52	61667	51468	5-	52528	52658	52	05653	20428			
368	5-	05643	20428				51	02642	53668	52	51645	22358			
379	52	02754	18528				6-	52628	51668	5-	05638	20458			
390	07	47390	22248	5-	08458	18428	52	61646	53568	57	05535	18368			
382	57	02764	18428	52	61746	18428	52	51636	19458						
438	8-	02748	24528							-2	57109	22569			
430	52	02765	20458							5-	62628	22368			
409	57	02756	16628	62	58627	17768	02	05628	53568	52	05644	18328			

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_h - Height and amount of low cloud - See M.O. 252.
N - Total amount of cloud - See M.O. 252.
C, C_M - 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 14th December
1 S.E. England	Moderate or fresh southwest wind; cloudy; rain at times: mild.
2 E. England ...	Moderate or fresh southwest wind, veering west later. Cloudy with rain at first; fair periods later: mild.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Freshening southwest wind, increasing to gale on coast, veering west: later.
6 South Wales ...	Cloudy with rain at first, fair periods later: mild.
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	Freshening southwest wind veering west later. Cloudy; rain later today.
10 N.E. England	Fair periods later: rather mild.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Wind southwest increasing to strong; gale at exposed places. Cloudy with rain today; fair periods but occasional showers later. Rather mild at first; temperature falling somewhat, later.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Wind southwest strong to gale, veering west later. Showers at first, a period of steady rain later - cold at first becoming temporarily milder.
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	Strong south to southwest wind, veering west later; gale on coasts.
19 S. E. Ireland	Cloudy with rain at first; fair periods but occasional showers later: mild.
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 very deep depression is centred near Iceland and a secondary to west of Ireland is moving northeast. Rain will spread northeast across the country today and be followed by fair periods in the South and showers in the North. Gales will occur on the coasts in the West and North. It will be mild in the South but temperature will be changeable in the North.

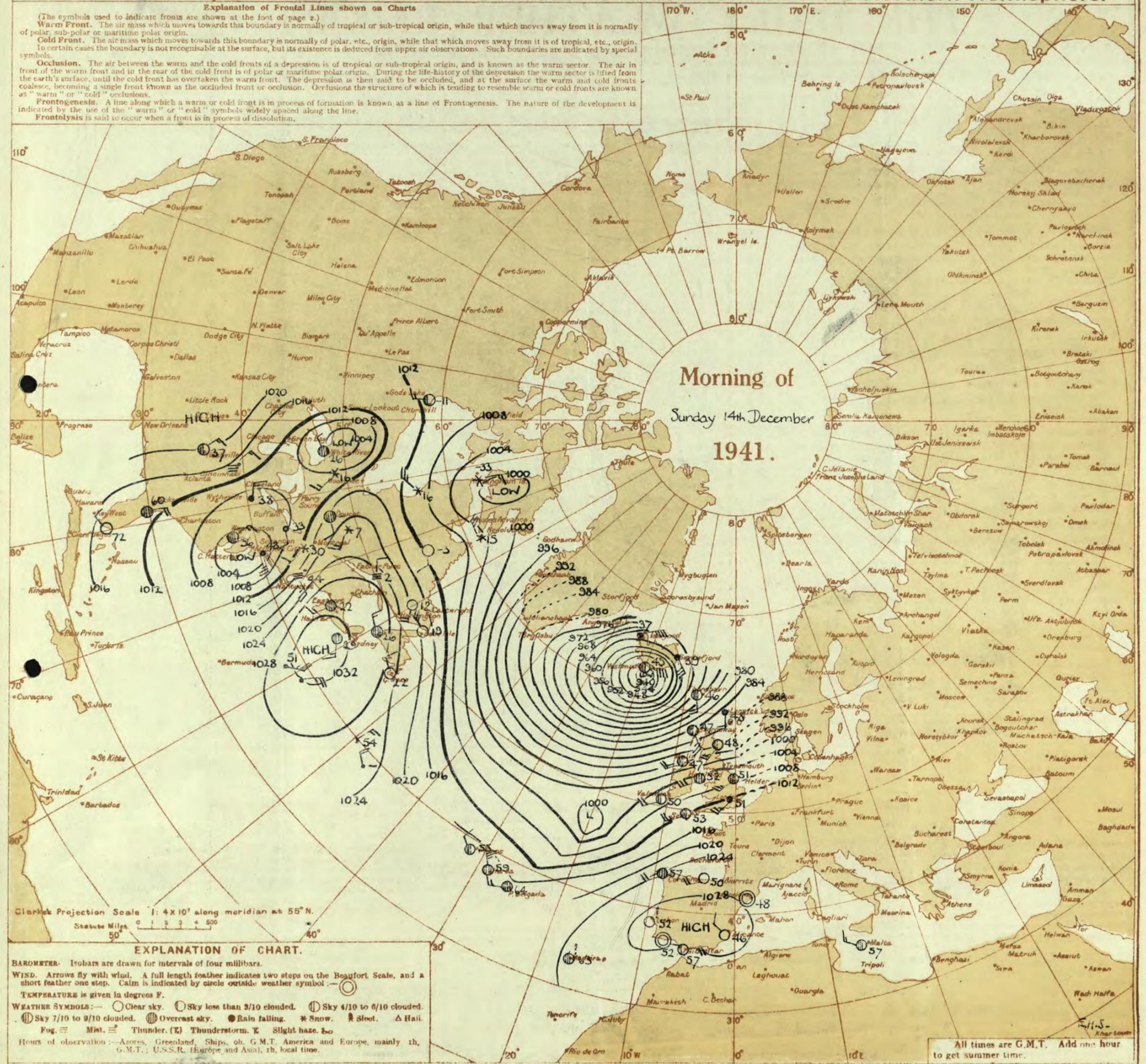
FURTHER OUTLOOK.
 Stormy; further rain spreading from the Southwest.
 Gale warnings issued 1145, 11.12.41. in districts, 7, 8, 12, 13^A, 13^B, 17, 18.
 " " " 0830, 13.12.41 " " 5 (part of) 6, 19, 20.
 " " " 1430, 13.12.41 " " 5 " " 10, 11, 15, 16.

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.



Morning of
 Sunday 14th December
 1941.

Clark's Projection Scale 1:4x10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: ☉ Clear sky. ☁ Sky less than 3/10 clouded. ☂ Sky 4/10 to 6/10 clouded. ☃ Sky 7/10 to 9/10 clouded. ☄ Overcast sky. ☔ Rain falling. ❄ Snow. ⚡ Sleet. ⚡ Hail.
 Fog ☁ Mist ☁ Thunder (⚡) Thunderstorm. ☁ Slight haze. ☁
 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.

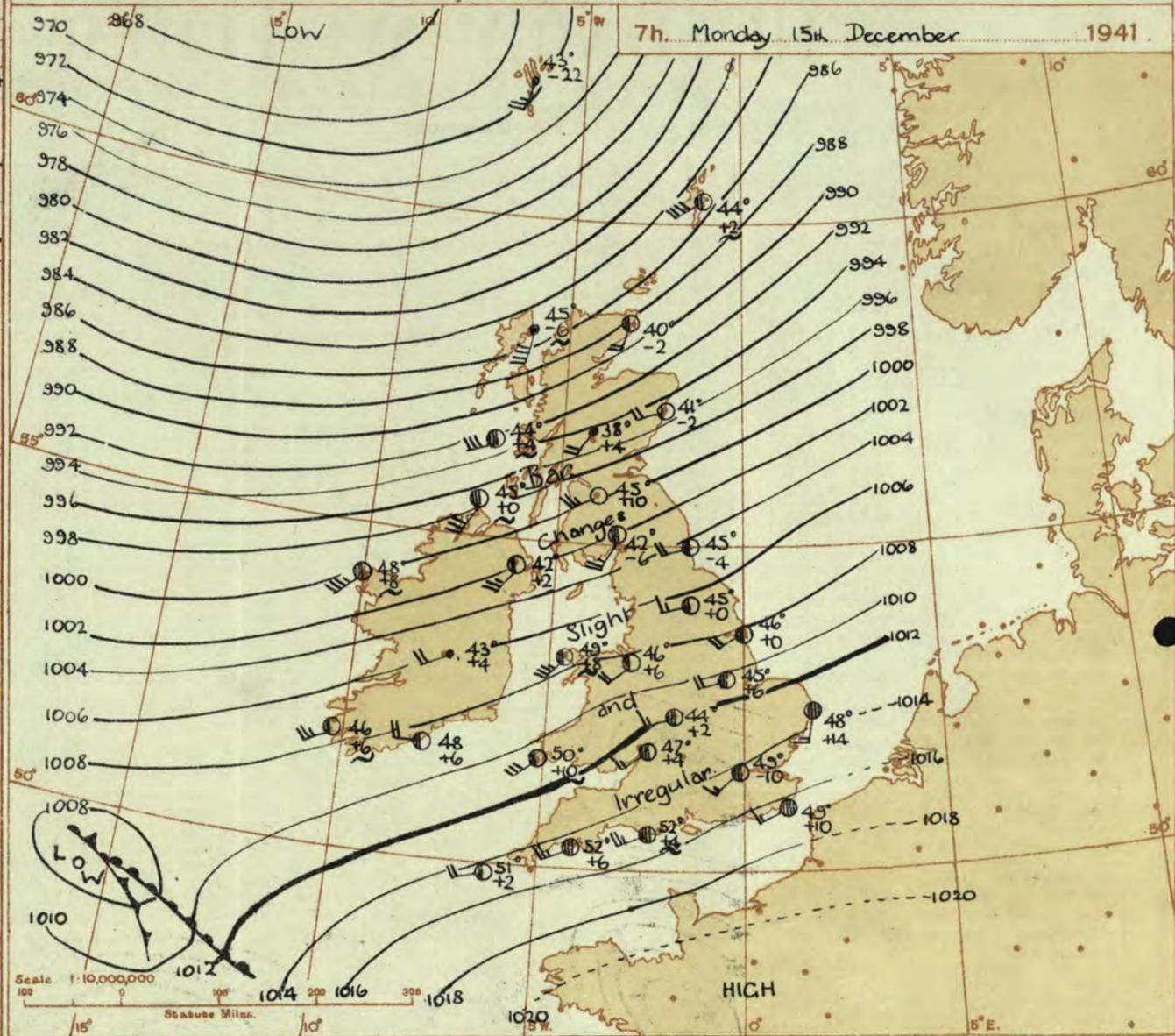
All times are G.M.T. Add one hour to get summer time.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 4th December				01h. G.M.T. 15th December				07h. G.M.T. 15th December				
III	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN
109	52	03876	10428	62	22548	52568	8-	81644	52663	8-	02854	51684
115	52	02844	10488	52	88844	24486						
203	6-	64838	16528									
206	51	02863	20427	8-	25854	22264	9-	25854	57684	30	81854	55784
210	57	02861	12328	8-	22858	20368	8-	81848	53588	30	00853	51783
220				80	27854	24584				80	88446	25716
230	62	04640	17608	20	00743	20483	30	25745	20695	3-	27746	52696
245	57	02774	18418	5-	61767	24267	50	25743	20583	30	81744	53684
260	57	02860	40517	8-	25644	20364	20	07751	51781	80	81764	51714
2785-	64638	15408		50	00841	23861	00	07890	21500	50	00801	21501
279	12	61604	18408				50	02865	52615	5-	01864	52714
285												
288	02	61643	15328	6-	55548	19468	00	05690	20360	40	25662	17382
275	62	62630	20408	30	00752	22382	30	00851	53401	40	00851	18481
801	02	62548	14408	02	62558	56568	53	01753	56764	5-	00761	55711
321	57	22653	14408	5-	21655	22468	5-	05656	23316	57	05652	24225
299	5-	01548	20228	5-	21548	22468	50	01752	22462	50	01752	24402
292	02	61530	12308	52	21546	54668	50	00763	19464	57	61653	51418
310												
314	62	22654	10208	62	21535	51558	57	05654	20326	57	05653	20314
333	52	62507	15508	5-	02748	55858	51	02853	53416	8-	91845	53685
334												
340	5-	22648	10408	8-	91845	55858	03	02790	20317	03	00790	20413
136	62	62620	17408	62	51645	16668	01	02790	20468	07	02790	20425
336												
350	52	53637	18408	52	05654	55668	52	05662	55527			
368	52	62637	51408	52	61637	54668	57	05643	22425	54	05642	53483
379	52	64607	43008	52	05637	55668	5-	05608	20528	07	05690	55513
390	62	67326	18208	62	53668	06056	5-	05578	23468	57	05566	23328
382	62	63637	15408	52	22754	54568	02	02690	22328	07	02790	22325
438												
430	52	51626	50408	62	62527	53768						
409	52	52626	52808	5-	05648	55668	52	05644	20428	57	05653	18412

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_h - Height and amount of low cloud - See M.O. 252.
N - Total amount of cloud - See M.O. 252.
C, C_M - 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. Monday 15th December
1 S.E. England	Moderate west to southwest wind. Mainly fair to fine, but local showers; average temperature but ground frost at night.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Moderate west to southwest wind backing south later. Mainly fair, but occasional showers; cloud increasing with rain to-morrow: average temperature.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Fresh west to southwest wind, gale at exposed places in North. Frequent squally showers, hail and thunder locally, especially in the Northwest. Average to rather low temperature, ground frost inland at night.
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	As 5-6.
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
= 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 deep depression between Iceland and the Faeroes is moving northeast and cool westerly winds will prevail over the British Isles. A depression near the Azores will deepen and move northeast, causing rain later in our southwest districts. Otherwise, there will be showers in the North and long fair periods in the South.

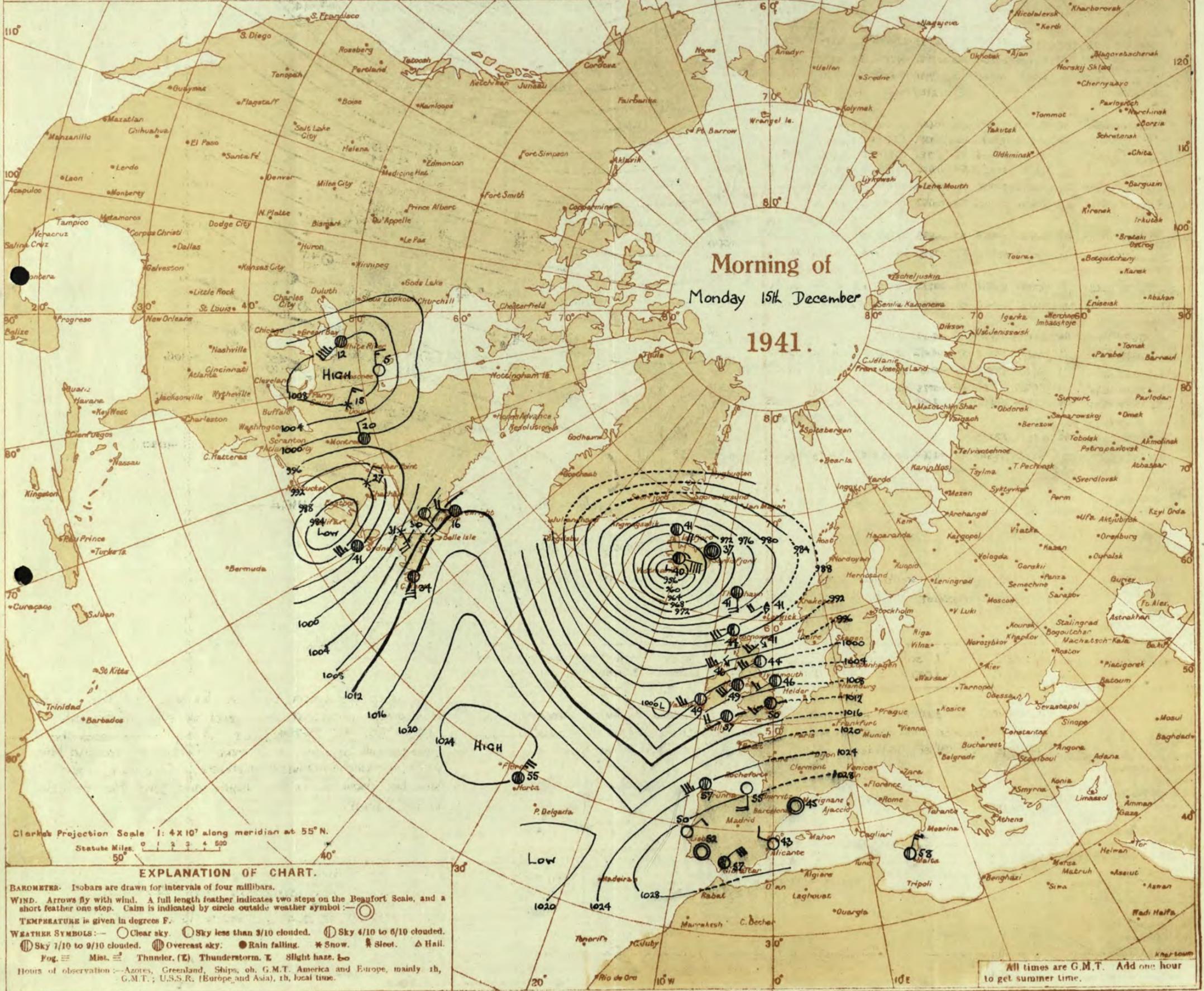
FURTHER OUTLOOK.
Rain spreading from Southwest.
Gale warnings issued at 11.45, 11.12.41 in districts 13A, 13B, 17, 18, and at 14.30 13. 12.41 in districts 15 & 16, still in operation.

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.

OBSERVATIONS at 1 hr. G.M.T. 15th December														OBSERVATIONS at 7 hr. G.M.T. 15th December														PAST 24 HOURS.						
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				Barom. at 1 hr. M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				Sea.	TEMPERATURE.			RAINFALL.		Sun- shine Hrs.	
					Dir.	Force.					Form.	Amount.	Height of Base (feet).	Form.			Amount.	Height of Base (feet).					Form.	Amount.	Height of Base (feet).	State of Ground.		0-9	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.		Night 18h-7h mm.
1	London (Kew)	18	*	*	*	*	50	85	*	*	*	*	1015.2	+12	SW	3	c	49	85	6	5	2	-	0	10	2500	1	56	49	47	10	0.2	0.0	
	Croydon	217	1013.2	+24	SW	3	50	85	6	5	2	-	0	10	1015.4	+10	SW	3	49	85	6	5	2	-	0	10	1	56	47	44	13	0.1	0.0	
	S. Farnborough	226	1013.3	+16	SW	3	50	85	6	5	2	-	0	10	1015.5	+8	SW	4	49	85	7	5	2	-	4	10	1	57	48	48	10	0.1	0.0	
	Boscombe Down	417	1013.7	+18	SW	3	48	85	7	5	2	-	0	10	1015.2	+2	SW	4	48	85	7	5	2	-	7	10	1	56	47	45	15	0.1	0.0	
	Thorney Island	10	1014.3	+20	WS	3	51	92	7	5	2	-	0	10	1016.1	+10	WSW	4	51	85	8	5	-	-	10	10	1	56	50	49	11	1	*	
	Lymington	346	1014.5	+18	SW	3	52	97	6	5	2	-	0	10	1016.6	+10	SW	3	49	92	7	5	-	-	10	10	1	54	49	47	5	3	0.0	
	Manston	154	1013.3	+24	W	2	51	92	6	5	2	-	2	3	1200	1015.7	+10	WSW	3	50	92	6	5	-	-	10	10	1	55	48	45	3	1	0.0
2	Shoeburyness	11	1013.6	+28	WSW	1	51	85	6	5	-	-	10	10	1015.7	+12	SSW	3	49	92	6	5	-	-	10	10	1	56	45	31	3	0.1	0.0	
	Felixstowe	15	1012.3	+30	WSW	3	51	85	7	5	-	-	10	10	1014.9	+10	WSW	4	48	85	6	5	-	-	10	10	1	54	48	46	6	0.2	0.0	
	Gorleston	5	1010.9	+34	WS	2	50	75	5	5	-	-	10	10	1013.8	+14	SW	3	48	75	6	5	-	-	10	10	1	55	47	44	6	1	*	
	Mildenhall	19	1011.4	+30	WS	2	50	85	7	5	-	-	10	10	1013.4	+10	SW	4	48	85	6	5	-	-	2	3	1	58	48	43	7	0.2	0.0	
	Cranwell	240	1009.7	+28	W	3	46	85	6	5	-	-	3	3	2500	1011.1	+6	WSW	4	45	85	6	5	-	-	0	3	1	57	45	41	2	1	0.0
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Upper Heyford	408	1011.7	+24	SW	4	47	92	6	5	-	-	10	10	1011.6	+2	WSW	3	44	85	6	5	-	-	4	7	1	55	44	40	3	0.1	0.0	
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
5	Hartland Point	299	1011.7	+8	WSW	4	49	85	7	6	2	-	7	8	1500	1012.2	+4	WSW	5	51	75	7	5	-	-	4	4	1	55	47	45	6	2	0.0
	Bristol	209	1013.8	+26	SSW	5	48	85	7	5	2	-	7	8	2000	1014.1	+6	SW	3	47	85	7	5	-	-	7	4	1	58	45	42	3	0.0	
	Portland Bill	32	1013.8	+12	WSW	5	52	92	7	5	-	-	10	10	1013.1	+4	WSW	3	52	92	7	5	-	-	7	4	1	54	50	49	3	0.0		
	Plymouth	82	1014.6	+10	WSW	4	51	85	7	5	2	-	7	8	2000	1015.6	+6	WSW	5	52	92	7	5	-	-	2	3	1	55	48	47	13	1	0.0
	The Lizard	240	1014.7	+12	SW	5	51	85	7	5	2	-	3	10	1009	1015.2	+4	SW	6	51	75	7	8	-	-	4	4	1	54	48	47	3	0.0	
	Scilly (St. Mary's)	163	1013.6	+8	WS	4	51	85	7	5	-	-	10	10	1014.6	+2	WSW	4	51	92	7	5	-	-	2	3	1	55	49	48	8	1	0.0	
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
6	Pembroke	142	1010.6	+14	SW	6	51	75	7	8	-	-	3	3	1500	1011.1	+10	SW	6	50	85	7	2	-	-	2	3	1	58	45	44	15	0.3	0.0
7	Holyhead (Valley)	26	1006.7	+6	SW	6	49	75	7	2	7	-	0	10	1007.5	+8	SW	7	49	85	8	5	-	-	2	3	1	51	47	44	3	1	0.0	
	Chester (Sealand)	16	1008.0	+10	SW	4	47	65	7	5	7	-	2	3	3000	1009.3	+6	SW	4	46	85	7	9	-	-	4	4	1	55	46	35	0.1	0.0	
8	Manchester	235	1008.3	+16	SSW	4	42	85	7	-	-	-	0	0	1009.6	+6	SW	5	43	85	7	5	-	-	4	4	1	53	42	40	1	1	0.0	
10	Spurn Head	29	1008.2	+40	SW	3	46	85	6	5	-	-	3	3	2500	1008.2	0	SW	4	46	85	6	1	-	-	2	3	1	53	45	44	2	1	0.0
	Catterick	175	1005.7	+22	WS	4	45	75	7	-	-	-	0	0	1016.4	0	WSW	3	45	75	7	5	-	-	2	3	1	50	44	40	3	1	0.0	
	Tynemouth	108	1003.3	+16	WS	5	44	65	7	2	-	-	4	4	1500	1004.1	-4	WSW	4	45	75	7	5	-	-	2	3	1	49	44	39	0.5	1	0.0
11	St. Abbs Head	280	999.6	+22	SW	5	41	85	7	4	-	-	1	1	2500	999.5	-4	SW	5	48	92	7	4	-	-	1	2	1	49	38	33	3	0.2	0.0
	Leuchars	36	997.1	+14	SW	4	42	75	7	5	-	-	7	7	2500	997.3	-2	SW	4	44	75	7	8	-	-	4	4	1	45	38	33	7	2	0.0
12	Renfrew (Abbots L.)	19	998.7	+12	SW	4	44	75	8	8	-	-	2	3	2500	998.0	+4	SW	5	45	75	7	8	-	-	7	8	1	49	40	36	18	0.3	0.0
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Point of Ayre	30	1002.5	+10	WS	6	46	75	8	4	-	-	6	6	4000	1003.4	+2	WS	6	42	75	8	4	-	-	1	1	1	46	35	32	12	0.4	0.0
13A	Tiree	22	992.1	+4	WS	7	44	85	8	8	-	-	4	4	1800	992.3	+2	WSW	7	47	85	7	8	-	-	4	4	1	48	48	47	5	2	0.0
13B	Stornoway	80	985.2	+2	SW	6	44	85	8	8	-	-	4	4	2000	983.6	-6	SSW	8	45	92	7	5	-	-	7	8	1	48	41	38	8	2	0.0
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	988.7	-2	SSW	5	40	85	8	2	4	-	2	3	3000	989.0	-2	SSW	4	41	85	8	4	-	-	1	1	1	47	38	34	5	0.5	1.6
	Sunburgh	30	987.2	+2	SSW	6	45	75	8	8	-	-	4	4	1500	986.8	+2	SW	8	44	85	8	5	-	-	4	4	1	47	41	39	3	2	0.4
17	Blackod Point	18	998.5	+6	WS	8	48	75	7	2	-	-	2	3	2500	999.3	+8	WSW	7	48	75	7	3	-	-	7	8	1	51	44	43	13	0.3	0.0
18	Mahn Head	84	995.6	+6	SSW	7	46	85	8	3	-	-	4	4	2500	996.5	0	SSW	6	45	92	7	3	-	-	3	3	1	46	47	42	2	2	0.0
	Aldergrove	268	1001.5	+8	SW	4	42	85	7	3	-	-	1	1	1500	1001.6	+2	SW	5	42	85	8	3	-	-	1	4	1	43	40	36	3	1	0.1
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obey.	30	1006.3	+4	SW	5	49	75	8	3	-	-	2	3	2500	1007.3	+6	SW	5	46	85	8	3	-	-	3	3	1	52	43				

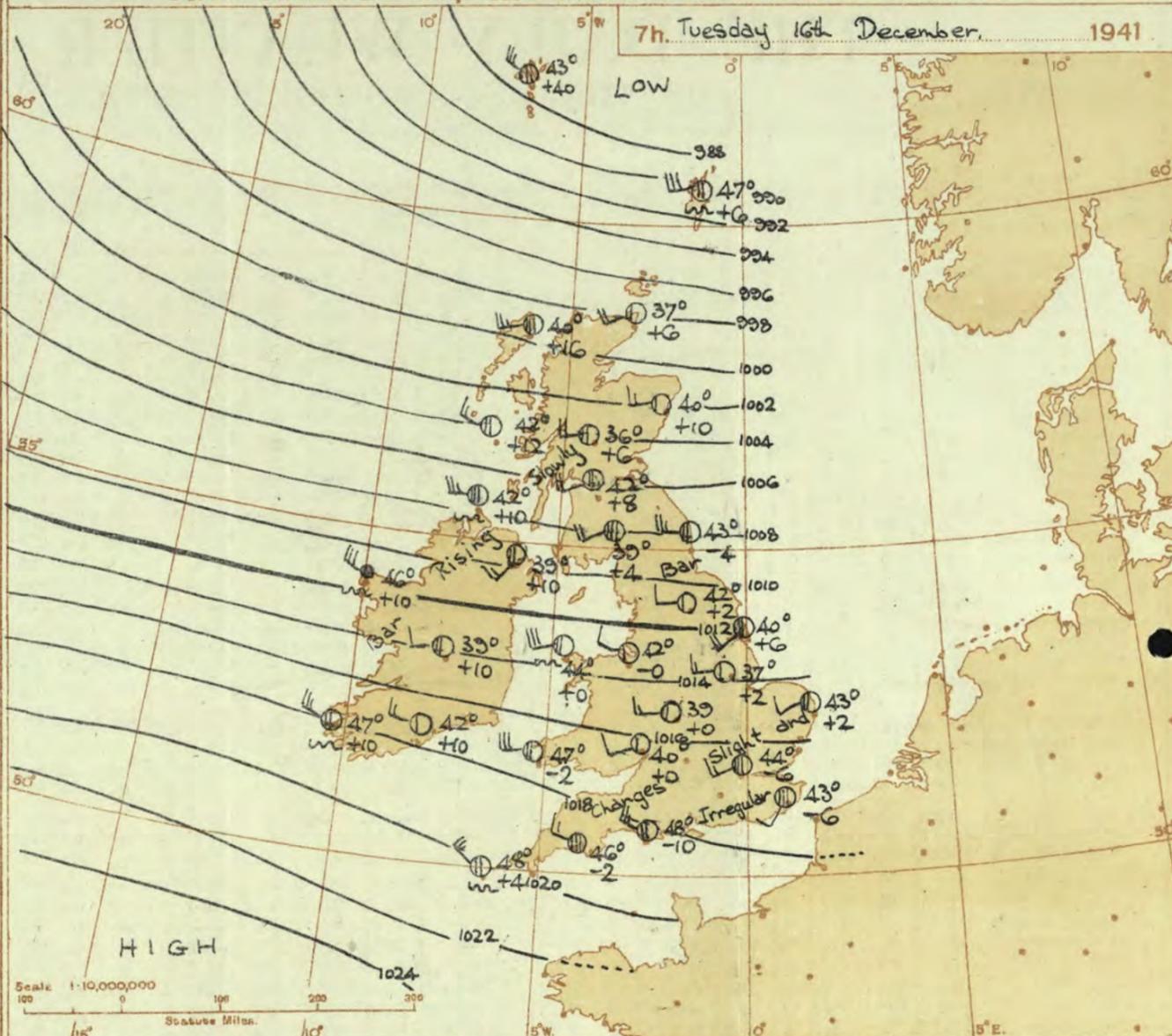
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 15th Dec.			18h. G.M.T.			01h. G.M.T. 16th Dec.			07h. G.M.T.		
III	wwVhN ₁	DDFWN	G ₁ C ₁	wwVhN ₂	DDFWN	G ₂ C ₂	wwVhN ₃	DDFWN	G ₃ C ₃	wwVhN ₄	DDFWN
10007	25844	52685	30	02745	56885				3-	27844	22684
115											
2038-	22825	20825				8-	81937	20787	50	01944	22584
2063-	25858	55588	8-	25855	22385	5-	81846	55686	50	00861	22481
21063	64746	52687	90	25833	52583	50	01553	52523	50	00853	20313
22080	27855	24685	80	01655	28685						
2303-	25744	51786	87	81747	13688				20	01844	20384
24530	08854	22683	37	25853	53688	37	02741	55527	54	00781	22221
26026	01853	52684	50	01752	20615	50	00762	54882	8-	81766	57486
2744	00851	21402				50	00842	22402	54	00852	22502
2780	02854	56625	20	00853	53513	00	00830	53510	50	00853	55413
28523	25854	24584				20	25745	26585			
28896	25654	53484	40	01754	19314	40	05663	20313	50	05652	20302
575			97	81844	55585	50	00753	55403	30	25753	22483
80123	01753	21584				2-	25655	55515	20	25753	55583
9283	01753	20514	50	05653	20383	04	05630	12140	50	04581	20301
20950	05652	24412	50	05653	24313	50	05652	24312	50	01753	24303
20920	05653	20414	80	25652	18382	8-	01755	21385	3-	81745	15285
310	02638	20528							--	01633	20313
614			3-	81554	20284	5-	05563	22303	50	05552	24102
3332-	25846	20587				50	00851	23501	50	00852	22512
334	65646	24387				--	25644	24385			
3400	00864	22414	30	25854	22584	04	00830	21301			
13653	01741	21414	8-	25767	20487	40	00761	20511	54	01763	22413
336			54	01753	24414				34	25753	24484
350			40	00753	22413	50	05661	22401	07	05630	20213
30224	01743	21484	34	81645	56687	80	10644	22414	80	88744	22484
87023	25853	53584	20	01753	22424	01	01730	20403	07	00780	20303
89080	05645	55426	50	08452	21415	00	05530	22328	07	05530	22316
35286	01854	20414	46	02854	22428	01	05630	22327	03	02780	22313
4388-	02745	22515							5-	03758	24428
43093	25756	20387	20	01752	21425	83	05674	22427	53	05663	24226
40920	01753	20615	27	25743	53684	57	02754	22628	34	25744	22384

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, N₁ - Height and amount of low cloud - See M.O. 252.
N - Total amount of cloud - See M.O. 252.
G, C₁ - Form of low and medium cloud - See page 1.
V - Visibility - F - Force of wind - See page 1.
DD - Direction of wind (8 = E, 10 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 16th December, 1941.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th December, 1941.
1 S.E. England	Moderate westerly winds; mainly fine but chance of more cloud with rain near south coast late in period. Average temperature with some slight frost at night.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Fresh to moderate westerly winds, backing S.W. tomorrow and beginning to freshen; considerable bright periods; local rain or hail showers; mainly average temperature with slight frost locally at night.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Strong squally W. to N.W. winds moderating, backing later. Showers of rain or hail with snow at times on high ground. Bright intervals; rather cold.
13 A. W. Scotland	
13 B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland ↑	
16 Orkneys and Shetlands ↑	
17 N. W. Ireland	Moderate or fresh west wind, backing south later. Bright intervals and showers at first. Rain tomorrow morning in the west. 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 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.

A deep depression near Faeroes is moving E.N.E. and becoming less deep whilst a ridge of high pressure is spreading in over the British Isles from the Atlantic. In Scotland and most western districts there will be bright periods but some showers of rain or hail with snow at times on hills in the North. Weather will be mainly fine in E. and S. England.

FURTHER OUTLOOK

Southwesterly winds with rain spreading to the west and north and probably also to the Southeast.

↑ Gale warning in operation in districts 15 (part of) and 16. time of issue 10.30h on 16.12.41.

Forecasts issued at 10.30. G.M.T.

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

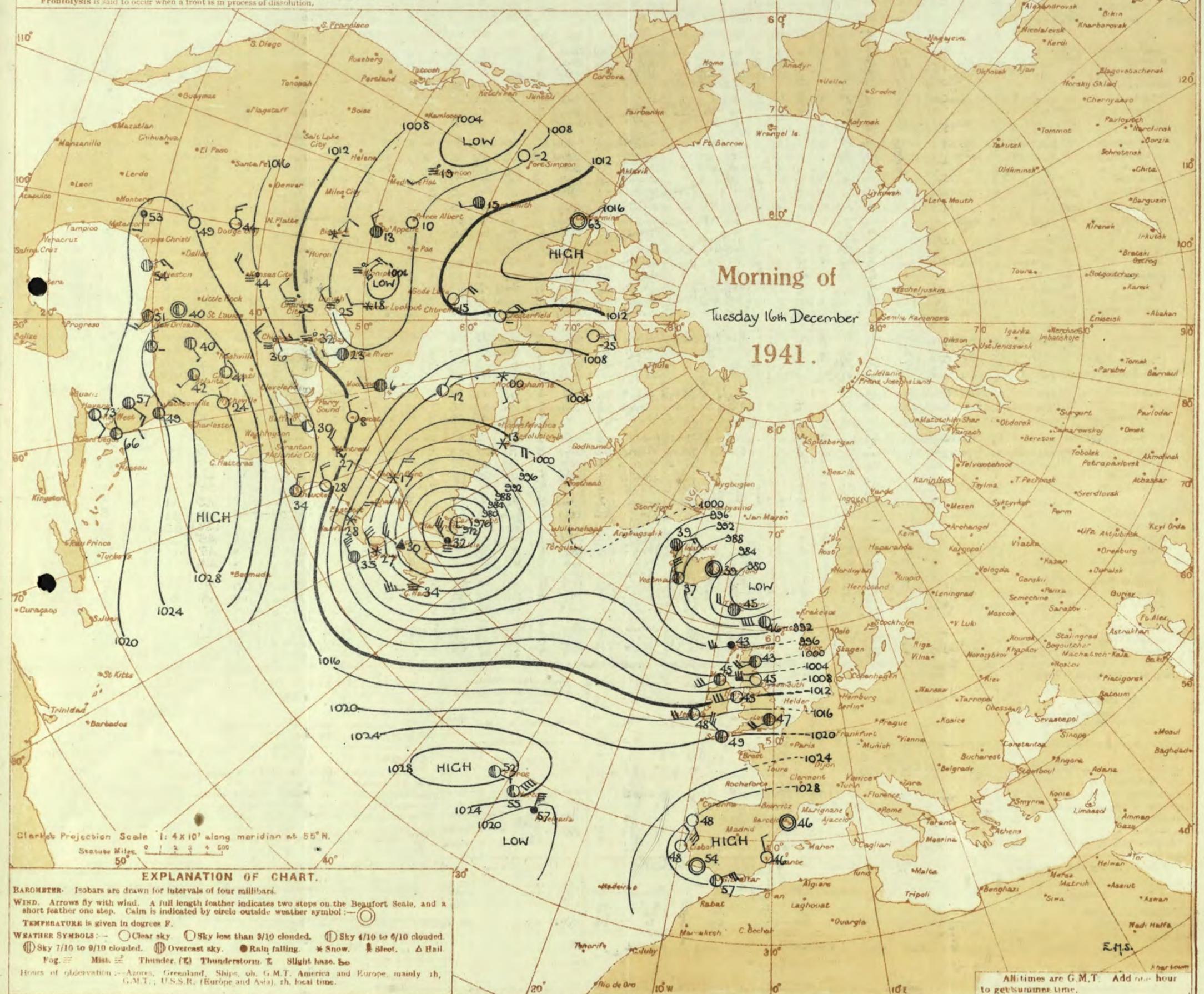
H.M.S.O. Press, Meteorological Office, Dunstable.

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.

Morning of
 Tuesday 16th December
 1941.



Glarke's Projection Scale 1:4 X 10⁷ 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. ⚡ Hail. ☁ Fog. ⚡ 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.

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

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

PAST 24 HOURS.

DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L.	Change in 3 hours.	OBSERVATIONS at 1 hr. G.M.T. 16th December....										OBSERVATIONS at 7 hr. G.M.T. 16th December....										PAST 24 HOURS.							
					Wind.		Weather.	Temp. °F.	Humid. %	Cloud.			Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	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-15h °F.	Min. Night 15h-7h °F.	Min. on Grass °F.	Day 7h-15h mm.	Night 15h-7h mm.			
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	53	44	36	Tr	-	3.3	
	Croydon	217	1017.5	0	SW	4	bc	47	75	7	-	4	7	0	0	1016.7	-1	SW	2	bc	44	85	6	5	7	7	7	7	7	7	3.5	
	S. Farnborough	226	1018.1	+0	SW	3	bc	45	85	7	-	3	6	0	0	1016.7	-2	SW	2	bc	41	82	7	5	4	0	0	4	4	0	3.5	
	Boscombe Down	417	1018.1	+0	SW	3	bc	44	85	7	-	3	6	0	0	1017.2	-1	W	3	bc	40	85	7	5	4	0	0	4	4	0	3.0	
	Thorney Island	10	1018.7	+2	SW	3	bc	49	85	8	-	1	8	0	0	1017.2	-1	W	1	bc	43	82	7	5	6	3	0	0	0	0	0	*
	Lymington	346	1018.1	+4	SW	3	bc	46	85	6	-	5	-	0	0	1018.3	-1	SSW	2	bc	43	82	7	5	7	7	7	7	7	7	0.8	
	Manston	154	1017.5	+2	WSW	3	bc	46	85	6	-	7	-	0	0	1017.1	-2	WSW	2	bc	43	82	6	5	1	1	1	1	1	1	2.2	
2	Shoeburyness	11	1017.6	+4	SSW	2	b	47	85	6	-	-	-	0	0	1016.7	-4	SSW	3	bc	44	85	6	5	-	-	7	8	7	7	3.0	
	Felixstowe	15	1016.1	+4	SW	4	b	46	85	6	-	-	-	0	0	1015.8	-2	WSW	3	bc	42	85	6	5	-	-	8	8	8	8	3.2	
	Corleston	5	1015.0	+4	WSW	3	b	46	85	6	-	-	-	0	0	1015.4	+2	SW	2	bc	43	85	6	5	-	-	7	7	7	7	*	
	Mildenhall	19	1014.9	+2	SW	4	b	44	85	7	-	-	-	0	0	1014.9	+2	SW	3	bc	41	82	7	5	-	-	6	6	6	6	4.1	
	Cranwell	240	1013.1	+4	WSW	5	b	42	85	6	-	-	-	1	1	1013.3	+2	WSW	3	bc	37	82	6	5	-	-	1	1	1	1	5.2	
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.5	0	WSW	3	bc	39	85	7	5	-	-	Tr	Tr	2500	1	4.5	
	Upper Heyford	408	1016.3	+14	SW	4	b	42	82	7	-	-	-	4	4	1016.8	-2	SW	3	bc	38	82	7	5	4	1	2	3	3500	1	*	
	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1015.6	0	SW	2	b	40	85	8	5	-	-	1	1	1	1	1.4	
5	Hartland Point	299	1017.0	+6	WNW	4	bc/pr	48	75	7	3	-	-	4	4	1016.3	0	WNW	4	bc/pr	47	75	8	3	-	-	2	2	2500	1	5	
	Bristol	209	1017.5	+6	SW	4	bc	45	75	7	5	-	-	2	2	1016.6	-2	WSW	3	bc	42	85	7	8	-	-	3	3	1000	1	4	
	Portland Bill	32	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.3	-10	WNW	5	bc	48	82	7	5	-	-	4	4	4	4	4.0	
	Plymouth	82	1018.4	0	SW	5	bc	49	75	7	8	2	-	-	4	4	1018.8	-2	WNW	3	bc/pr	46	85	7	2	-	-	4	4	2500	1	3
	The Lizard	240	1018.0	-4	W	6	bc	49	75	7	8	-	-	-	-	1018.7	+4	WNW	5	bc/pr	48	75	7	8	-	-	4	4	1500	1	5	
	Scilly (St. Mary's)	163	1013.2	-2	WNW	5	bc	49	75	8	8	-	-	-	-	1013.3	+4	WNW	5	bc/pr	48	75	8	8	-	-	4	4	1500	1	5	
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.3	+4	WNW	5	bc/pr	48	75	8	8	-	-	4	4	1500	1	5	
6	Pembroke	142	1016.4	+10	WSW	6	bc/pr	46	82	7	8	-	-	2	2	1015.4	-2	W	6	bc	47	82	7	8	-	-	4	4	2500	1	4	
	Holyhead (Valley)	26	1013.0	+10	WSW	6	b	45	85	8	5	-	-	Tr	Tr	1012.5	0	WSW	6	bc	44	85	8	2	-	-	4	4	2500	0	3	
	Chester (Sealand)	16	1013.0	+6	WSW	2	b	44	75	7	-	-	-	0	0	1012.6	0	WN	2	b	42	75	7	-	-	0	0	0	0	0	2.8	
	Manchester	235	1012.9	+6	SW	3	b	39	82	7	-	-	3	0	1	1012.7	-4	SW	3	b	37	85	7	-	-	0	0	0	0	0	*	
10	Spurn Head	29	1011.6	+8	WSW	5	bc	43	85	7	4	-	-	2	2	1012.3	+6	SW	4	bc	46	85	7	5	-	-	2	2	1500	0	4	
	Catterick	175	1009.7	+10	WSW	3	bc/pr	45	75	6	5	-	-	4	4	1008.8	+2	W	2	b	42	85	7	5	-	-	1	1	2500	1	4	
	Tynemouth	108	1007.5	+10	W	6	bc/pr	45	75	6	2	-	-	4	4	1007.8	+2	W	5	bc	43	75	7	5	-	-	2	2	1500	1	3	
11	St. Abbs Head	280	1003.0	+12	SW	5	bc	43	82	7	4	4	-	-	2	2	1000.8	+2	WS	2	b	42	85	7	5	-	-	1	1	2500	1	4
	Leuchars	36	1002.8	+16	WSW	4	bc	42	82	8	4	-	-	2	2	1003.5	+10	WSW	5	b	38	82	8	4	-	-	Tr	Tr	3000	2	*	
12	Renfrew (Abbots L.)	19	1004.0	+12	SW	3	bc	45	85	7	8	-	-	9	9	1005.7	+8	SW	4	bc	42	75	7	8	-	-	2	2	2500	1	4	
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.3	+4	SW	4	bc	39	85	8	5	-	-	3	3	1500	1	4	
	Point of Ayre	30	1008.0	+6	WN	6	b	44	85	8	4	-	-	Tr	Tr	1007.2	-2	WN	5	bc	44	85	8	4	-	-	2	2	2000	0	4	
13A	Tiree	22	1009.6	+6	WN	4	bc	44	82	7	8	-	-	2	2	1009.8	+12	WNW	3	bc	42	75	7	5	-	-	2	2	2500	0	4	
13B	Stornoway	80	1007.1	+20	WSW	5	bc	43	85	7	8	-	-	7	7	1007.7	+16	WSW	5	bc/pr	40	82	7	8	-	-	4	4	2000	2	3	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	1002.5	+6	WSW	4	bc	38	85	7	8	-	-	2	2	2500	1	4	
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	1001.8	+10	WSW	3	b	40	85	7	5	-	-	Tr	Tr	3500	1	2	
	Wick	119	1006.2	+22	SW	4	b	40	85	8	4	-	-	1	1	1007.3	+6	SW	4	b	37	85	8	3	-	-	1	1	2000	1	4	
	Sunburgh	30	1000.5	+30	W	8	bc/pr	46	85	8	0	-	-	9	9	1001.0	+6	WS	6	bc	47	85	8	8	-	-	2	2	1500	1	8	
17	Blackod Point	18	1009.2	+12	WS	5	bc	46	85	7	0	-	-	4	4	1011.3	+10	WN	6	bc	46	85	7	0	-	-	4	4	1500	1	5	
18	Maln Head	84	1004.0	+8	SW	6	bc	45	85	7	8	-	-	7	7	1006.4	+10	W	5	bc/pr	42	85	7	0	-	-	0	0	1500	1	6	
	Aldergrove	268	1008.0	+6	SW	3	b	39	82	8	2	-	-	1	1	1010.2	+10	WSW	3	bc	38	82	8	5	-	-	4	4	1100	1	4	
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.5	+10	WSW	2	bc/pr	39	82	8	3	-	-	2	2	1500	1	4	
20	Valentia Obay.	30	1015.6	+6	WSW	4	bc	48	75	8	3	-	-	4	4	1017.7	+10	WNW	5	bc/pr	47	65	8	3	-	-	2	2	2500	1	5	
	Roches Point	22	1016.2	+6	W	4	b	43	85	8	5	-	-	1	1	1017.3	+10	WN	3	b	42	85	8	5	-	-	1	1	2500	1	4	

LONDON OBSERVATIONS

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

STATION	Height above M.S.L. in feet.	Weather			Temperature			Rainfall		Humidity		Atmospheric Pollution	
		Morning	Afternoon	Night	Day Max.	Night Min.							

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

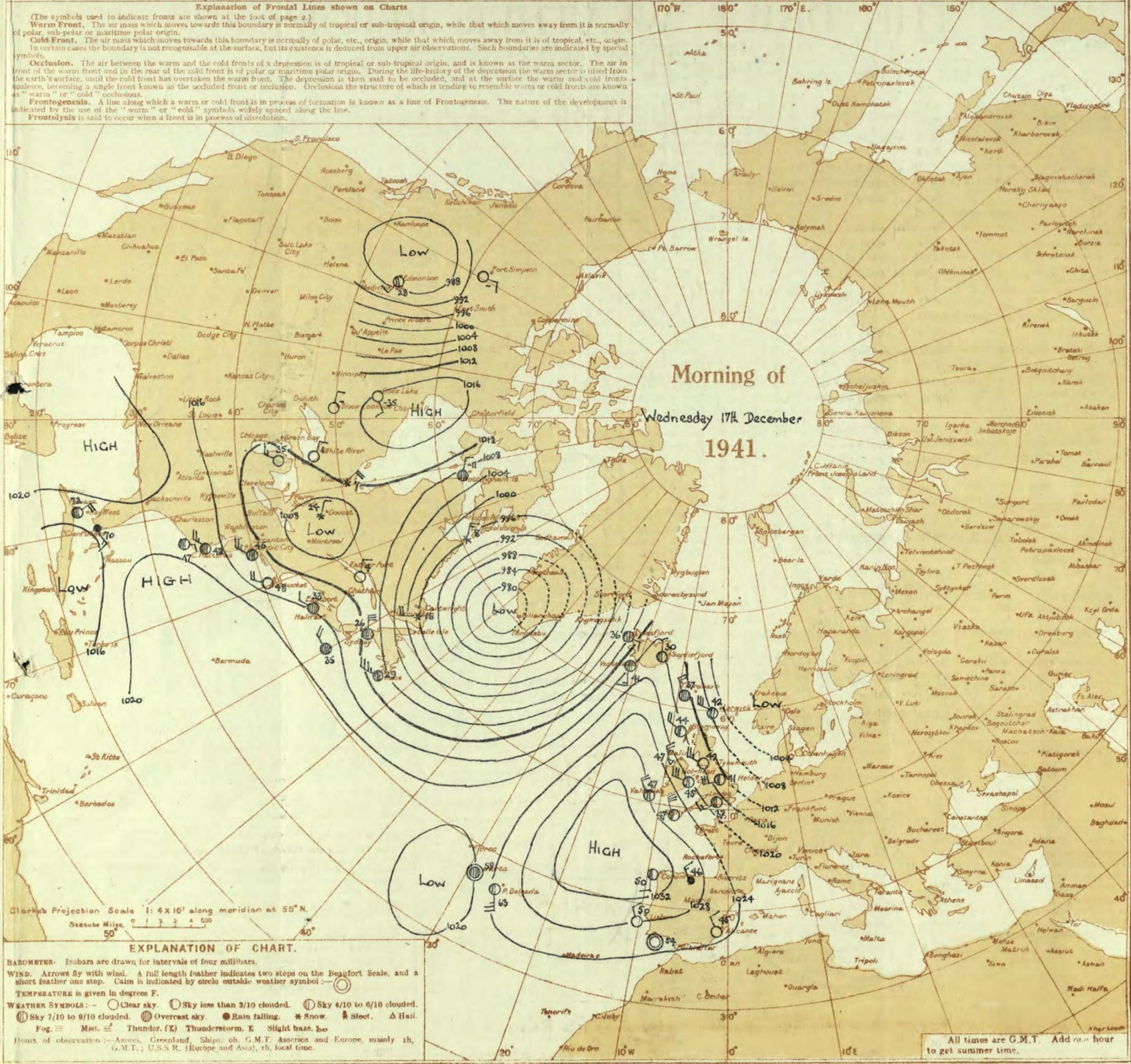
SECRET
BRITISH SECTION
Wednesday 17th December 1941.
No. 29245

OBSERVATIONS at 13h. G.M.T. 16th December														OBSERVATIONS at 18h. G.M.T. 16th December														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.								
				Dir.	Force. 0-12 (3)					Form.	Amount. Low 0-10 Total 0-10 (12) (13)	Height of Base. (feet) (14)	Low.			Med.	High.					Low.	Med.	High.	Low 0-10 Total 0-10 (26) (27)			Height of Base. (feet) (28)	7h.-13h. 16th (37)	13h.-18h. 16th (38)	18h. 16th (39)	1h.-7h. 17th (40)				
1	London (Kew)...	1015.7	+8	WS	3	bc	47	75	7	1	4	1	2-3	2500	1016.6	+4	SWW	2	Zo	43	85	6	5	-	-	-	-	2500	1	*	bmbcb	bcbmo	b,c,m,w	cm,w		
	Croydon ...	1016.3	-8	WS	3	b	40	65	7	1	4	1	2-3	2000	1016.5	+4	SWW	2	Zo	42	85	6	5	-	-	-	-	1500	1	*	cbmab	bcbmo	bm,w	bm,c,r		
	S. Farnborough	1016.6	-6	W	4	bc	47	65	8	1	3	9	2-3	3000	1017.0	+2	WS	3	b	41	85	7	-	4	-	-	-	-	1	*	bcbbc	bcbmo	b,c,w	wm,c		
	Boscombe Down	1017.4	-4	WN	3	bc	46	75	8	3	3	-	2-3	2500	1017.5	-2	WS	3	bc	38	92	7	3	-	-	2-3	2000	1	*	bc	bcb	bcb	blm			
	Thorney Island	1017.0	-2	WN	3	bc	48	75	8	1	-	-	2-3	2500	1017.5	+4	WNW	4	b	43	85	7	2	6	-	-	-	2500	1	*	bcbmab	b,c,pr,b	bblbc	cpr,bw		
	Lympne ...	1016.8	-14	WN	4	b	47	75	8	2	-	8	2-3	3200	1017.4	+6	WN	3	Zo	40	85	6	-	4	-	-	-	-	1	*	cbcb	bcbmo	b,c,m,w	bcbm,w		
	Manston ...	1015.5	-14	WN	3	Zo	48	75	6	1	4	-	-	3000	1015.9	+8	WS	3	Zo	39	85	6	-	-	-	-	-	-	1	*	cbcb	b,c,m,w	bcbm,w	bcbm,w		
2	Shoeburyness ...	1015.8	-8	W	3	bc	48	75	6	-	4	1	0	2-3	-	1015.9	+4	W	3	m	42	85	4	-	-	-	-	-	1	*	cbca	bzm	bmbcbm	bcbcm		
	Felixstowe ...	1014.9	-10	WS	4	Zo	47	75	6	-	-	1	0	-	-	1015.1	+6	WS	3	Zo	42	85	6	-	-	-	-	-	1	3	bmo	bmo	bm,w	bm,wcm		
	Gorleston ...	1014.3	-8	WN	4	b	47	65	7	-	-	9	0	-	-	1015.0	+8	Zo	42	75	6	5	-	-	2-3	2-3	2500	0	2	b	bc	bm,c,m	bcbz,w	bcbz,w		
	Mildenhall ...	1014.2	-10	WSW	4	b	47	75	8	1	-	-	-	2500	1014.3	+2	SWW	3	Zo	40	85	6	5	-	-	-	-	2500	0	*	bcbmab	bbmow	bm,w	b,c,m,w		
	Cranwell ...	1012.9	-6	W	4	Zo	44	75	6	-	7	-	0	-	-	1013.1	+6	WSW	3	Zo	40	85	5	5	-	-	2-3	2-3	3000	1	*	bzo	bbeza	bbcm	cm,c,w	
3	Birmingham	1014.4	0	W	3	bc	44	75	7	7	-	-	4-6	4-6	1500	1015.3	+4	W	3	c/pr	41	85	6	8	-	-	7-8	7-8	1500	1	*	bbe	bepre	cbcbpr	bce	
	Upper Heyford	1015.2	-6	WSW	4	bc	45	75	7	1	-	-	2-3	2-3	2500	1016.0	+12	SW	3	bc	40	85	7	4	-	-	-	-	3500	1	*	bcbmab	bbe	bmycm	bprcm	
4	Ross-on-Wye ...	1015.6	-4	WS	3	bc	47	65	8	8	-	-	2-3	2-3	3500	1016.3	+6	SW	2	bc/pr	41	85	8	8	-	-	4-6	4-6	3000	1	*	bcb	bcep	bbcm	bc	
5	Hartland Point	1017.2	+2	NW	3	ba	47	75	8	3	-	-	4-6	4-6	2000	1018.6	+4	NW	4	c	46	75	7	8	-	-	7-8	7-8	2500	1	5	bepprh	beere	cbce	cbpr	
	Bristol ...	1016.7	-2	WN	4	bc	46	75	7	2	-	-	2-3	2-3	2500	1017.2	+4	WNW	3	bc	43	85	7	8	-	-	2-3	2-3	2500	1	5	cbcbpr	bc	c,e	bcbm	
	Portland Bill ...	1017.7	+4	WNW	5	c	49	85	8	2	-	-	9-8	7-8	4000	1017.8	+4	W	4	bc	47	92	8	2	-	-	4-6	4-6	4000	1	5	c	cb	bebc	bcb	
	Plymouth ...	1019.5	+2	W	3	pr	47	75	7	3	-	-	9	9	2000	1020.2	+6	WN	3	Zo	45	85	6	3	-	-	2-3	4-6	1300	1	3	b,c,pr	eprcb	bprb	cpr,b	
	The Lizard ...	1020.2	+4	WNW	6	c/pr	48	75	8	8	6	-	7-8	7-8	1500	1021.8	+4	WNW	6	b/pr	47	85	8	8	-	-	4-6	4-6	1500	1	5	bepre	bepre	bepre	cprbc	
	Scilly (St. Mary's)	1021.4	+6	WNW	5	bc/pr	48	75	8	8	6	-	4-6	4-6	1500	1022.6	+10	NW	6	b/pr	48	75	8	8	-	-	4-6	4-6	1500	1	5	bepre	bepre	bepre	bc	
6	Pembroke ...	1017.7	+4	WN	6	bcq	48	85	8	2	3	-	4-6	4-6	3000	1018.9	+12	NW	6	bcq	47	85	8	2	-	-	2-3	2-3	4000	1	4	bcq	cbq	bcq	bcbq	
7	Holyhead (Valley)	1013.3	+2	WN	6	c	46	75	8	8	3	1	4-6	7-8	1600	1015.4	+26	WNW	5	bc	45	92	8	4	-	-	4-6	4-6	2500	0	5	bcc	bcc	bcprb	bc	
	Chester (Sealand)	1013.3	+2	WS	2	bc	46	65	7	2	-	-	2-3	2-3	1200	1014.1	+6	WN	4	b/pr	43	85	7	3	-	-	2-3	2-3	2000	1	*	bcbm	bepre	b,cpr	bcbpr	
8	Manchester ...	1013.0	0	W	4	pr	44	75	6	3	-	-	7-8	7-8	3000	1014.0	+10	WNW	3	c/pr	42	92	6	9	-	-	9+	9+	3000	1	*	bcm,c	cpr	pr,pr	pr,pr,b	
10	Spurn Head ...	1011.0	-4	WSW	4	Zo	44	75	6	1	-	-	2-3	2-3	2500	1011.6	+4	WSW	4	bc	42	85	6	1	-	-	4-6	4-6	2500	0	3	bc	bcm	b	cir	
	Catterick ...	1009.8	-4	W	3	c	46	75	8	8	4	-	4-6	7-8	2500	1011.7	+8	WN	2	m	39	85	4	5	-	-	-	-	2500	1	-	bcb	bcbem	bmbm,b	bcb	
	Tynemouth ...	1008.7	+4	W	4	bc	45	75	7	2	3	-	2-3	2-3	2500	1010.0	+8	W	3	bc	45	75	6	2	3	-	-	2-3	4-6	2500	1	3	bc	bc	bcb	bcb
11	St. Abbs Head	1006.6	+8	SSE	5	bc	42	75	8	4	4	-	2-3	2-3	2500	1007.5	+8	W	5	bc	41	75	7	4	-	-	1	1	2500	0	3	bc	bcb	bc	bc	
	Leuchars ...	1005.3	+6	W	3	b	43	85	8	6	-	-	2-3	1	4000	1006.9	+6	WSW	4	bc	40	85	8	5	-	-	4-6	4-6	4000	1	*	b	b,cbe	bc	bcb	
12	Reafrow (Abbots L.)	1008.0	+10	WSW	3	bc	44	75	8	9	-	-	4-6	4-6	1200	1009.9	+10	WSW	4	pr	43	85	7	8	-	-	9+	9+	2500	1	*	pr,prbc	bepre	pr,b,c,b	bcbm,b	
	Enkdalemuir ...	1008.5	+6	WSW	4	bc/pr	38	85	7	5	4	1	4-6	4-6	1500	1010.5	+6	SW	2	bc	34	92	8	5	4	-	-	2-3	2-3	1500	1	*	cbcbpr	bebe	bc	bcb
	Point of Ayre ...	1010.7	+4	WNW	6	c	45	75	8	4	-	-	4-6	7-8	2500	1012.6	+10	WNW	6	bc	44	92	8	4	-	-	1	1	2000	0	5	bcc	cbcb	trprc	prbcb	
13a	Tiree ...	1008.0	+18	NW	4	bc	48	75	8	8	3	-	4-6	4-6	2500	1010.2	+20	WNW	5	bc	47	75	8	8	-	-	4-6	4-6	1800	0	5	bc	cprbc	prbc	bc	
13b	Stornoway ...	1002.5	+8	WSW	4	c/pr	45	92	8	8	6	3	4-6	7-8	1500	1004.9	+14	W	6	pr	44	92	7	8	6	-	-	7-8	9	1500	1	2	cpr	cprpr	cbcbpr	bcb
15	Dalwhinnie ...	1005.8	+12	WSW	3	bc	37	85	8	8	4	-	4-6	4-6	2500	1008.6	+8	WSW	3	pr	38	85	7	8	-	-	2-3	2-3	2500	1	*	beps	beps	cbcb	cprbc	
	Aberdeen ...	1003.9	+10	WSW	2	bc	45	65	7	-	7	-	0	4-6	-	1005.3	+6	W	3	bc	42	65	7	-	4	-	-	-	-	1	2	bcb	cbcb	bcb	bcb	
	Wick ...	1000.3	+10	WSW	4	pr	42	85	7	9	3	-	7-8	9	1600	1002.5	+8	WS	4	bc	41	85	8	8	-	-	0	2-3	2500	1	*	b,cpr	pr,cbe	pr,cbe	bcbprbc	
16	Sumburgh ...	999.5	+26	WNW	5	c	47	75	8	8	-	-	7-8	7-8	2000	999.5	+26	NW	4	b	46	85	8	8	-	-	1	1	1500	1	6	b,cphc	cpr,bc	cpr,bc	bcbprbc	
17	Blacksod Point...	1016.1	+24	WNW	5	c/pr	48	75	8	9	-	-	7-8	7-8	2500	1020.0	+22	WNW	5	pr	47	75	8	9	-	-	9	9	1500	1	5	pr	pr	bc	bc	
18	Malin Head ...	1009.																																		

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.



Clarke's Projection Scale 1: 4x10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500
 50'

EXPLANATION OF CHART.

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

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

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

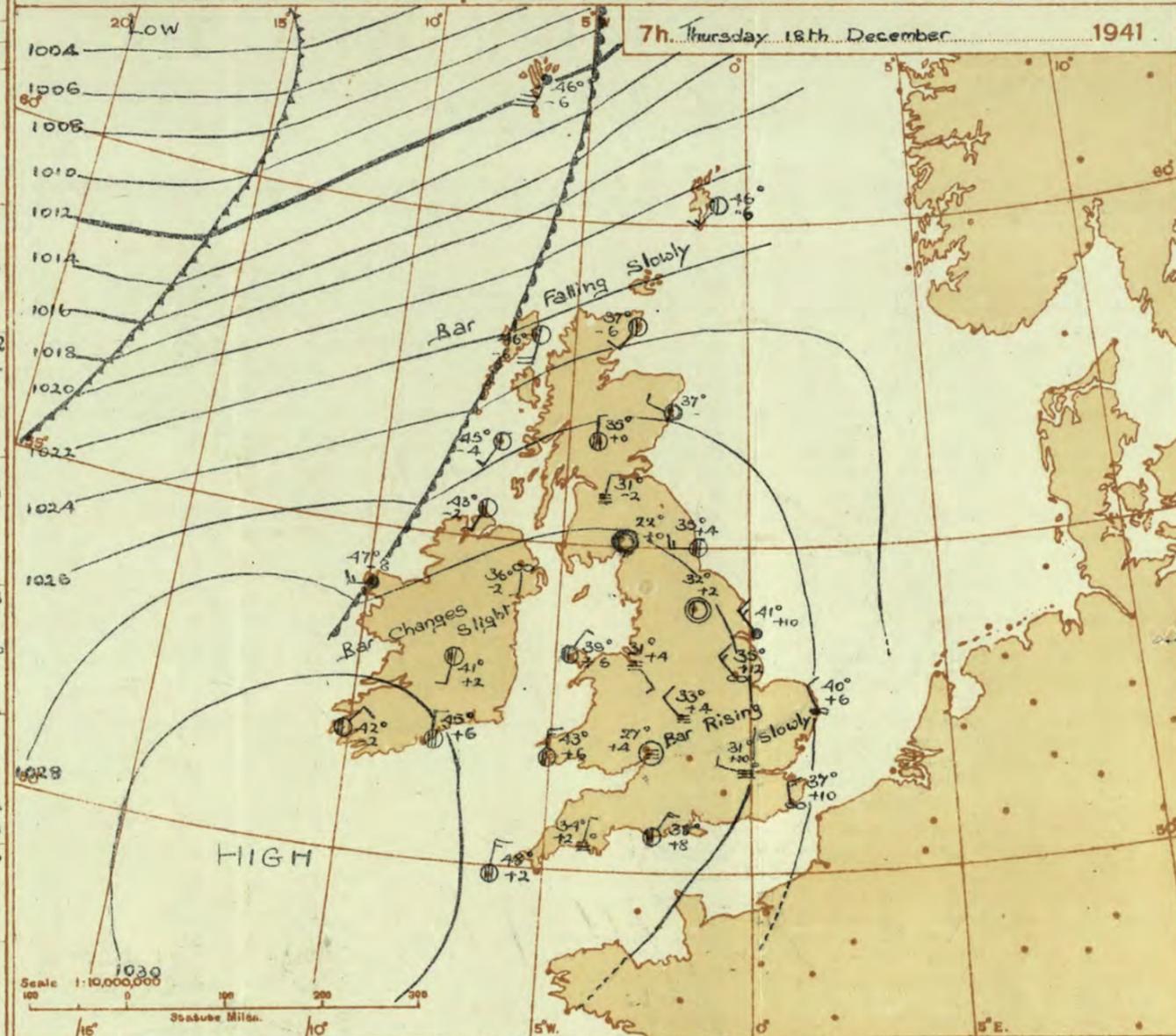
OBSERVATIONS at 1 hr. G.M.T. 17th December														OBSERVATIONS at 7 hr. G.M.T. 17th December														PAST 24 HOURS.								
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours (2)	Wind.		Weather (6)	Temp. °F. (7)	Humid. % (8)	Visibility (9)	Cloud.				Barom. at M.S.L. (15)	Change in 3 hours (16)	Wind.		Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility (22)	Cloud.				Sea (30)	TEMPERATURE.			RAINFALL.		SUNSHINE (36) Hrs.			
					Dir.	Force (4)					Form.	Amount (11)	Height of Base (feet) (14)	Form.			Amount (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)								
1	London (Kew)	18	1017.5	0	WSW	3	bc	38	85	6	1	1	1	1	1018.8	+10	WN	2	bc	41	85	6	5	1	1	1	1	1	1	47	38	30	-	Tr	5.3	
	Croydon	217	1018.0	+2	WN	3	bc	37	92	6	1	1	1	1	1018.5	+6	WN	3	bc	40	85	6	5	1	1	1	1	1	1	49	36	29	-	0.4	5.6	
	S. Farnborough	226	1018.0	+2	WN	3	bc	37	92	6	1	1	1	1	1018.4	+6	WN	3	bc	39	85	6	5	1	1	1	1	1	1	48	36	31	-	0.4	6.0	
	Boscombe Down	417	1018.0	+2	WNW	4	bc	41	85	7	1	1	1	1	1020.4	+10	WNW	4	bc	37	92	6	5	1	1	1	1	1	1	48	37	33	-	Tr	4.9	
	Thorney Island	10	1018.6	+2	WN	3	bc	40	92	6	1	1	1	1	1020.0	+6	WNW	3	bc	38	92	7	5	1	1	1	1	1	1	49	37	32	-	Tr	*	
	Lymington	346	1018.2	+2	WN	3	bc	33	97	6	1	1	1	1	1018.2	-2	WSW	2	bc	39	97	6	5	1	1	1	1	1	1	47	32	27	-	Tr	4.4	
Manston	154	1016.6	+6	WN	3	bc	37	92	5	1	1	1	1	1016.9	+2	WNW	4	bc	42	85	6	5	1	1	1	1	1	1	49	36	31	-	Tr	4.7		
2	Shoeburyness	11	1017.0	+4	WSW	2	bc	38	85	6	1	1	1	1	1017.3	+6	WNW	2	bc	39	92	6	1	3	9	0	4.6	-	1	1	48	38	31	-	-	4.4
	Felixstowe	16	1015.4	0	W	3	bc	39	85	6	1	1	1	1	1016.5	+6	WNW	4	bc	41	75	6	5	1	1	1	1	1	1	48	37	33	-	-	5.5	
	Gorleston	5	1014.8	0	W	3	bc	40	75	5	1	1	1	1	1015.4	+6	NW	4	bc	40	85	6	5	1	1	1	1	1	1	47	36	33	-	-	*	
	Mildenhall	19	1015.2	+2	WSW	3	bc	36	92	6	1	1	1	1	1016.3	+6	W	4	bc	40	97	6	5	1	1	1	1	1	1	47	35	31	-	Tr	4.7	
	Cranwell	240	1014.6	+2	WS	3	bc	37	92	5	1	1	1	1	1016.8	+14	WNW	3	bc	44	75	5	5	1	1	1	1	1	1	44	36	33	-	Tr	5.1	
3	Birmingham	535	1016.7	0	SW	2	bc	39	92	6	1	1	1	1	1018.9	+10	NW	3	bc	43	85	5	5	1	1	1	1	1	1	46	38	33	-	Tr	5.9	
	Upper Heyford	408	1016.7	0	SW	2	bc	39	92	6	1	1	1	1	1018.1	+8	WNW	4	bc	41	85	6	4	1	1	1	1	1	1	46	35	35	-	Tr	*	
4	Ross-on-Wye	223	1016.7	0	SW	2	bc	39	92	6	1	1	1	1	1019.8	+6	WN	4	bc	43	75	8	4	1	1	1	1	1	1	48	40	34	-	0.3	Tr	6.1
5	Hartland Point	299	1021.6	+4	N	4	bc	48	65	8	8	1	1	1	1023.8	+10	NW	5	bc	47	75	8	2	1	1	1	1	1	1	48	40	38	3	Tr	2.9	
	Bristol	209	1019.7	+6	WNW	4	bc	43	85	6	5	1	1	1	1021.4	+6	W	1	bc	39	85	6	5	7	1	1	1	1	1	48	38	31	2	-	5.1	
	Portland Bill	32	1019.0	+4	W	4	bc	47	92	8	5	1	1	1	1021.2	+10	W	4	bc	46	85	8	5	1	1	1	1	1	1	51	43	30	0.2	-	*	
	Plymouth	82	1022.5	+2	NW	4	bc	44	85	7	2	1	1	1	1024.0	+6	WNW	4	bc	45	85	7	4	1	1	1	1	1	1	49	43	36	-	Tr	1	
	The Lizard	240	1023.9	+4	NW	5	bc	45	85	7	8	1	1	1	1025.9	+14	NNW	4	bc	44	85	7	8	1	1	1	1	1	1	49	43	36	-	Tr	1	
	Scilly (St. Mary's)	163	1025.1	+6	NW	5	bc	47	75	8	8	1	1	1	1026.5	+10	N	5	bc	48	75	8	8	1	1	1	1	1	50	45	30	-	Tr	2.0		
Guernsey	175	1025.1	+6	NW	5	bc	47	75	8	8	1	1	1	1026.5	+10	N	5	bc	48	75	8	8	1	1	1	1	1	50	45	30	-	Tr	2.0			
6	Pembroke	142	1021.6	+2	NW	7	bc	47	85	8	8	1	1	1	1024.3	+10	NW	5	bc	47	85	8	2	1	1	1	1	1	1	48	43	30	-	-	3.1	
	Holyhead (Valley)	26	1018.5	+12	NW	5	bc	45	85	7	5	1	1	1	1021.5	+18	NW	6	bc	47	85	8	5	1	1	1	1	1	1	48	43	40	-	Tr	*	
7	Chester (Sealand)	16	1016.7	+10	WNW	4	bc	45	85	7	8	1	1	1	1020.6	+26	WNW	4	bc	45	85	7	8	1	1	1	1	1	1	47	42	36	0.2	Tr	4.0	
	Manchester	235	1016.5	+12	WNW	4	bc	41	92	6	8	1	1	1	1019.7	+26	WNW	2	bc	41	92	5	1	1	1	1	1	1	1	46	39	34	-	Tr	1	
10	Spurn Head	29	1012.7	0	W	5	bc	41	85	6	1	1	1	1	1015.2	+14	NW	4	bc	42	85	6	5	1	1	1	1	1	1	44	39	30	-	-	4.4	
	Catterick	175	1013.1	+10	W	3	bc	43	75	7	1	1	1	1	1018.1	+30	NNW	3	bc	42	75	7	5	1	1	1	1	1	1	46	39	33	-	-	2.9	
	Tynemouth	108	1011.8	+4	NW	4	bc	42	85	7	1	1	1	1	1017.2	+24	WNW	5	bc	44	75	7	2	1	1	1	1	1	1	45	39	34	-	-	*	
11	St. Abbs Head	280	1010.4	+18	W	5	bc	45	65	7	4	1	1	1	1016.9	+28	WNW	5	bc	43	75	7	4	4	1	1	1	1	1	43	40	30	-	-	5.0	
	Leuchars	36	1011.5	+22	W	3	bc	42	75	8	5	1	1	1	1018.4	+30	WNW	3	bc	42	75	8	5	1	1	1	1	1	1	44	38	30	-	-	2.4	
12	Renfrew (Abbots 1.)	19	1014.3	+30	WNW	3	bc	44	75	7	4	1	1	1	1020.3	+28	WSW	2	bc	40	85	8	4	1	1	1	1	1	1	45	39	30	1	0.2	2.4	
	Eskdalemuir	794	1015.5	+10	NW	6	bc	47	85	8	8	1	1	1	1019.2	+28	W	0	bc	38	75	7	1	1	1	1	1	1	39	33	31	0.6	-	1.4		
13A	Point of Ayr	30	1015.5	+10	NW	6	bc	47	85	8	8	1	1	1	1020.9	+22	NW	5	bc	47	85	8	4	1	1	1	1	1	1	46	43	30	-	-	2.8	
	Tiree	22	1017.9	+40	NNW	4	bc	47	85	8	8	1	1	1	1023.3	+24	NNW	4	bc	46	85	8	2	1	1	1	1	1	1	48	46	30	0.3	0.3	2.4	
13B	Stornoway	80	1016.2	+60	NW	4	bc	44	92	7	2	1	1	1	1022.4	+22	NW	4	bc	43	85	7	8	7	1	1	1	1	1	47	41	30	1	2	0.7	
	Dalwhinnie	1176	1016.2	+60	NW	4	bc	44	92	7	2	1	1	1	1022.4	+22	NW	4	bc	43	85	7	8	7	1	1	1	1	1	47	41	30	1	2	0.7	
15	Aberdeen	79	1011.1	0	W	3	bc	43	85	8	3	1	1	1	1017.4	+28	NW	5	bc	38	75	8	5	1	1	1	1	1	39	36	31	4	4	1.2		
	Wick	119	1011.1	0	W	3	bc	43	85	8	3	1	1	1	1017.4	+28	NW	5	bc	38	75	8	5	1	1	1	1	1	39	36	31	4	4	1.2		
16	Sumburgh	30	1011.1	0	W	3	bc	43	85	8	3	1	1	1	1017.4	+28	NW	5	bc	38	75	8	5	1	1	1	1	1	39	36	31	4	4	1.2		
	Wick	119	1011.1	0	W	3	bc	43	85	8	3	1	1	1	1017.4	+28	NW	5	bc	38	75	8	5	1	1	1	1	1	39	36	31	4	4	1.2		
17	Blacksod Point	18	1024.7	+20	NNW	1	bc	46	75	8	2	1	1	1	10																					

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. (7th December) 18h. G.M.T.				01h. G.M.T. (8th December) 07h. G.M.T.						
III	C _W	wwVhN _h	DDFWN	C _W	wwVhN _h	DDFWN	C _W	wwVhN _h	DDFWN	
109	8-	25855	20585	5-	02857	28427	5-	01853	16223	
115	52	02844	28387	52	02844	28327	52	81844	20487	
203				5-	01945	00025	5-	02937	16427	
206	82	01964	28114	8-	02855	26125	53	01864	26224	
210	46	02854	26425	46	00883	24213	5-	01864	21214	
220							50	02445	18215	
230	74	01064	20214	03	01800	28213	50	00763	00003	
245	80	01064	300315	40	00851	29312	50	01762	23224	
260	57	01763	28114	00	47030	00000	00	08400	00040	
278	16	01841	28613	47	00841	28314	50	01861	14114	
279	53	05651	28---	00	05530	30100	00	08430	00010	
285	13	02853	32514	50	00852	32212	50	01744	32314	
288	5-	17-57	27307	5-	08458	27228	50	05661	28111	
575	87	02854	20315	57	02753	28225	5-	21758	20158	
301	05	05630	30303	00	47300	00100	--	46300	00140	
321	44	08604	20404	53	05664	28324	5-	05667	27327	
299	80	14744	32614	80	51445	31655	50	01743	30553	
292	5-	02855	00415	5-	02767	26327	5-	02766	26116	
310	--	05434	24414	--	01624	26314	--	01643	26313	
324	13	05657	32002	5-	05654	32214	50	05651	28101	
333	14	01855	28525	4-	00752	30412	5-	01755	26215	
334	--	02953	02215	--	02764	04215	--	02664	04215	
340	10	05661	20201	20	05653	30213	00	45300	02140	
136	80	05643	28484	80	25054	29485	50	01764	27484	
336	52	02754	28327	14	01762	28313		54	05642	32313
350	53	05661	28311	00	08430	28200	00	08430	28200	
368	10	00852	28483	40	06701	28201	50	05554	30114	
379	10	05651	30401				00	05550	30114	
390	5-	05657	28487	5-	05667	29417	5-	05568	29388	
382	17	05662	31403	53	05664	30214	00	05600	25100	
438								54	01753	32413
430	20	00762	30402	50	05663	30313	00	05530	32400	
409	54	01854	29514	50	01853	31314	20	00852	32102	

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_M - Form of low and medium cloud—See page 1.
V - Visibility. F - Force of wind—See page 4.
DD - Direction of wind (E, 10 - S, 24 - W, 32 - N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 18th December
1 S.E. England	
2 E. England ...	
3 E. Midlands ...	Light variable winds. Fair or fine. Fog becoming extensive during the night and persisting tomorrow. Rather cold. Keen frost at night
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light or moderate southwest wind veering west. Bright intervals. Rain locally later. Average temperature
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Moderate southwest wind veering west; fresh locally. Mainly cloudy.
15 N. E. Scotland	
16 Orkneys and Shetlands	Local rain. Average temperature.
17 N. W. Ireland	
18 N. E. Ireland	Light southwest wind. Bright intervals. Local showers. Local fog.
19 S. E. Ireland	
20 S. W. Ireland	Rather cold.

BAROMETER. Isobars are drawn for intervals of two millibars. WIND, WEATHER SYMBOLS. For explanation see opposite page. SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 6h. 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 anticyclone centred south of Ireland extends across England to Scandinavia. Feeble troughs of low pressure will affect northern districts. Over most of England and Wales. Weather will be fair with extensive fog developing tonight. In Scotland there will be bright intervals but rain locally later.

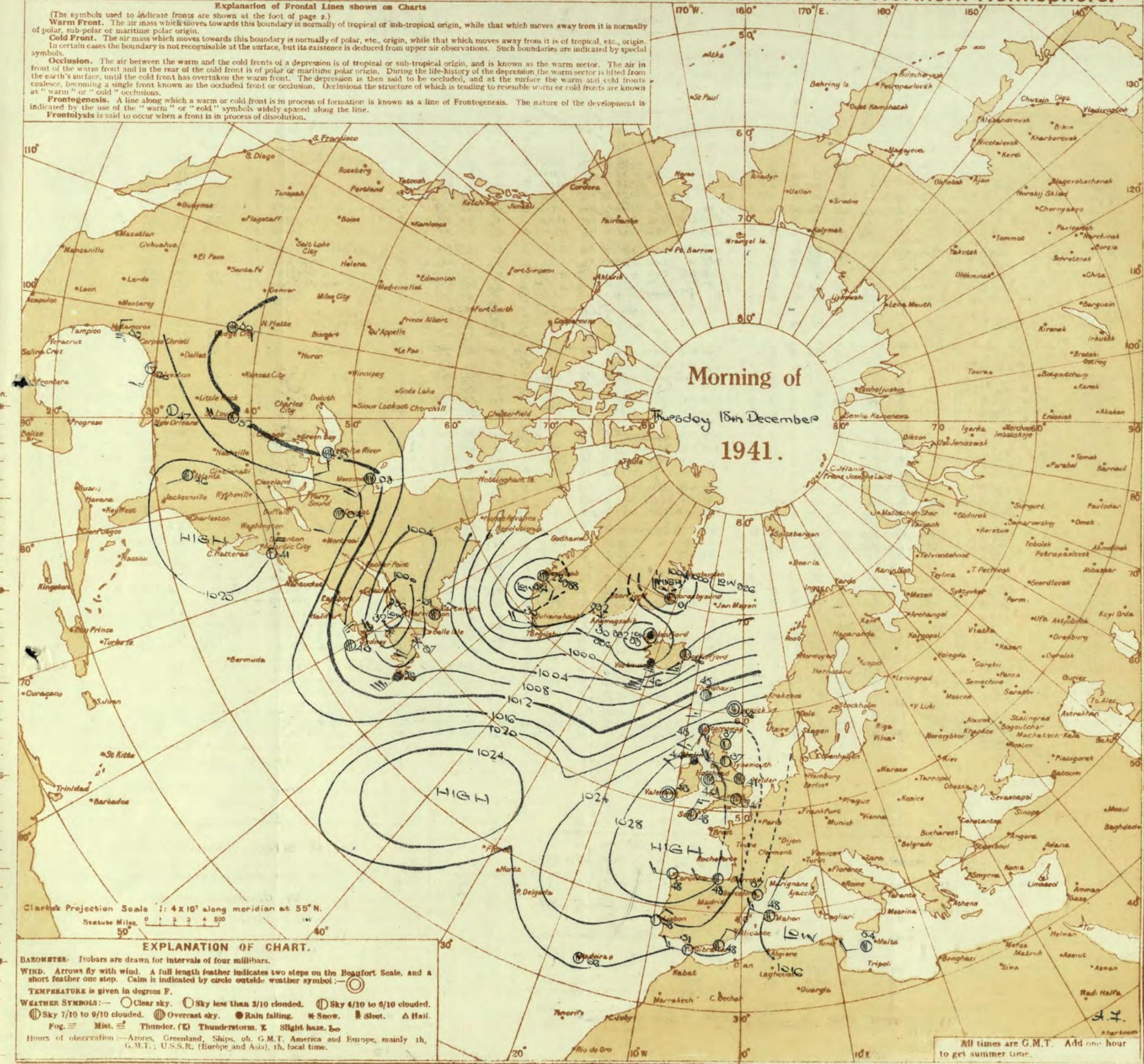
FURTHER OUTLOOK.
 Quiet weather with mist or fog in many places in the South and Midlands. Cloudy in the North with slight rain locally.

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.

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 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 10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

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

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

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

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

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

PAST 24 HOURS.

DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. in feet.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %.	Visibility.	Cloud.					Barom. at M.S.L. in feet.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %.	Visibility.	Cloud.					Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs.					
					Dir.	Force.					Form.	Amount.	Height of Base (feet).	Dir.	Force.			Form.	Amount.					Height of Base (feet).	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.
1	London (Kew)	18	1027.0	+8	NNW	3	bc	35	82	4	0	0	0	0	0	0	0	NNW	3	bc	36	78	6	5	0	0	0	0	0	0	0	0	0	0	0	0.4				
	Croydon	217	1027.0	+8	NNW	3	bc	34	82	4	0	0	0	0	0	0	0	NNW	3	bc	31	82	4	5	0	0	0	0	0	0	0	0	0	0	0.0					
	S. Farnborough	226	1027.2	+2	NNW	3	bc	31	85	5	0	0	0	0	0	0	0	NNW	3	bc	31	85	4	5	0	0	0	0	0	0	0	0	0	0	0	0.0				
	Boscombe Down	417	1028.3	+6	NW	2	bc	33	87	4	0	0	0	0	0	0	0	NW	2	bc	28	87	4	5	0	0	0	0	0	0	0	0	0	0	0	0.0				
	Thorney Island	10	1026.8	+4	NW	2	bc	36	85	6	0	0	0	0	0	0	0	NW	2	bc	33	85	5	5	0	0	0	0	0	0	0	0	0	0	0	0.0				
	Lymington	346	1024.8	+4	NNW	3	bc	38	82	6	4	4	4	4	4	4	4	NNW	3	bc	37	85	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0.0			
	Manston	154	1024.7	+8	NNW	4	bc	41	85	6	5	5	5	5	5	5	5	NNW	4	bc	37	85	6	4	4	4	4	4	4	4	4	4	4	4	4	0.0				

LONDON OBSERVATIONS

Station	Height above M.S.L. in feet.	Weather			Temperature.			Rainfall.		Sunshine.		Humidity.		Atmospheric Pollution.
		Morning	Afternoon	Night	Day Max.	Night Min.	Min. on Grass	Day	Night	16h. G.M.T.	9h. G.M.T.	24 hrs. ended 7h. G.M.T. 18th.		
Kew	18	ir, w, z	cb, bc, z	bz, x, m	47	34	19	Tr	Tr	0.4	0	0	4	
Croydon	217	cm, p, f	cz, cz	bf, b, x, m	45	31	23	0.3	Tr	0.0	0	0	4	
Greenwich (Royal Observatory)	149	cm	cb	cb, x, b	46	32	22	-	-	0	0	4		
City (Fenchurch Lane)	10				46	32	22	-	-	0	0	4		
Westminster (St. James' Park)	27				47	33	20	-	-	0	0	4		
Regents Pk. (Botanic Gardens)	168				46	33	25	-	-	0	0	4		
Camden Square	110	bc	bc		46	35	29	-	-	0	0	4		
Kensington	80	bc	bc		47	33	22	-	-	0	0	4		
Hampstead Observatory	450	bc	bc	bcx	44	32	26	-	-	0	0	4		

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 accompanying 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.	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		

COLUMNS 8, 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	1 1/2 miles.
5 Poor visibility	2 1/2 "
6 Moderate "	4 1/2 "
7 Good "	12 1/2 "
8 Very good "	31 "
9 Excellent "	beyond 31m.

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

FOREIGN OBSERVATIONS.

STATIONS.	Evening of 17th December				Morning of 18th December				Past 24 Hours.					
	Barom. mb.	Wind. Dir.	Force.	Weather.	Temp. °F.	Barom. mb.	Wind. Dir.	Force.	Weather.	Temp. °F.	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Night mm.
Reykjavik (18h and 07h)	1000.4	S	3	bc	45	990.4	SSW	8	bc	43	*	*	*	*
Lisbon (18h and 07h)						1021.3	NNE	3	b	43	*	*	*	*
Madrid (18h and 07h)	906.0	NNE	2	b	45									
Cairo (Heliopolis) (18h and 06h)	1022.3	NNE	2	b	58	1022.6		0	bz	47	50	43	-	-
Toronto (18h and 07h)	1017.1	WNW	4	0	35									
Washington (18h and 01h)														

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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.

Friday 19th December 1941.
No. 23247

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

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

PAST 24 HOURS.

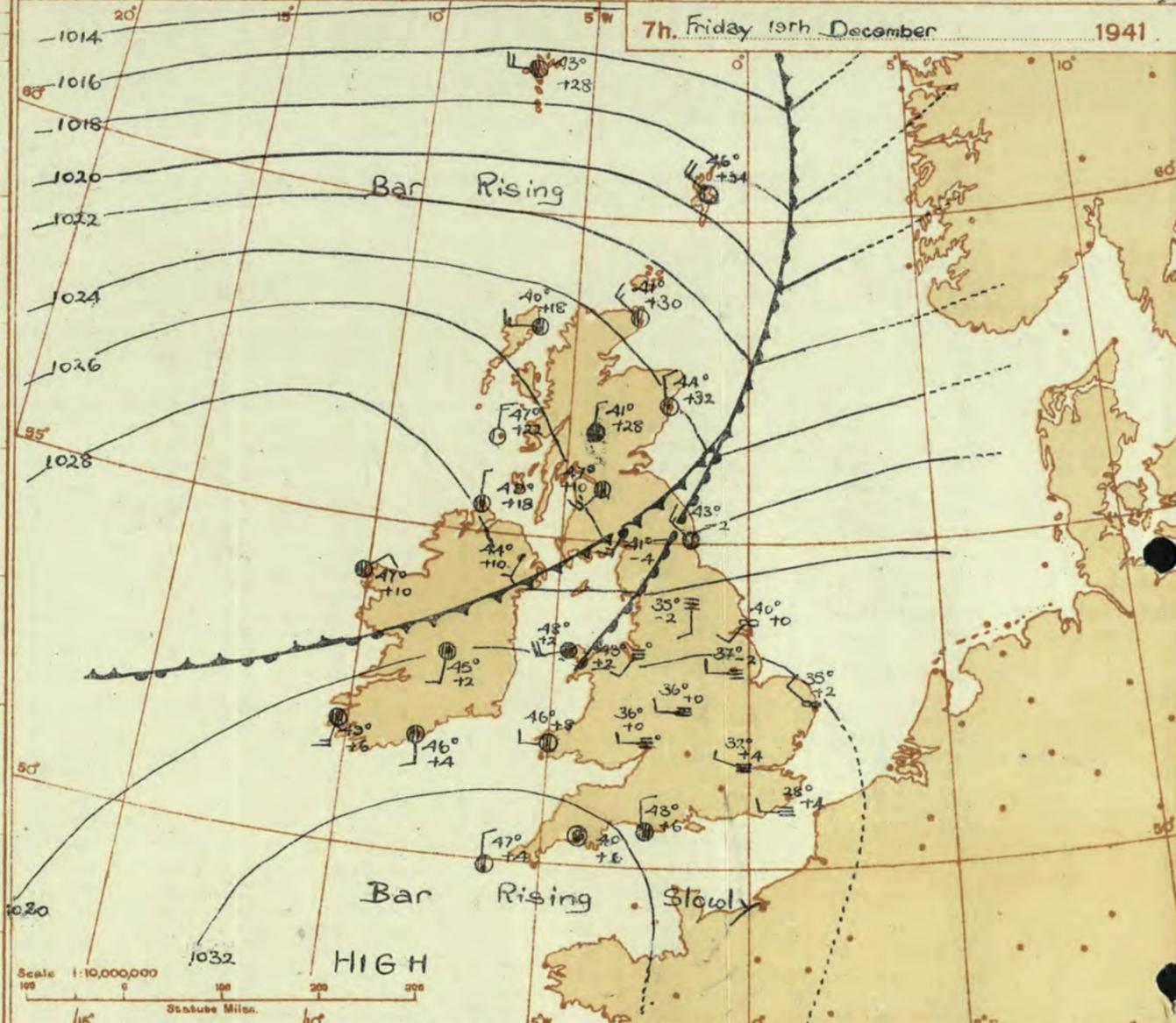
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.			State of Ground. (29)	Sea. (30)	WEATHER.												
				Dirac. (3)	Force. 0-12 (4)				Weather. (5)	Form. (9)	Amount. (10)			Height of Base. (feet) (14)	Dirac. (17)				Force 0-12 (18)	Weather. (19)	Form. (23)			Amount (24)	Height of Base. (feet) (28)	7h.—13h. 18th (37)	13h.—18h. 18th (38)	18h.—19h. 19th (39)	1h.—7h. 19th (40)							
																														Low.	Med.	High	Low	Med.	High	
1	London (Kew)...	1029.4	+4	NW	2	z	42	65	5	-	5	8	0	3	-	1030.1	+8	NNW	2	m	39	85	4	2	2	8	0	9	-	1	*	mxfczo	czozmw	bcbfx	bccfpx	
	Croydon ...	1029.2	+2	N	2	z	37	85	4	-	3	2	0	9	-	1029.5	+2	W'S	2	cft	35	85	2	-	-	0	0	-	1	*	bef	cmct	bfx	bmxm		
	S. Farnborough	1029.8	+2	WN	1	z	35	75	5	-	-	8	0	7-8	-	1030.4	+6	-	0	z	32	85	5	-	-	1	0	Tr	-	3	*	bmxcbcz	bcbzomx	bmxcbfx	bccfx	
	Boscombe Down	1030.2	-2	-	0	m	35	52	4	-	-	1	0	2-3	-	1030.7	+8	NW	1	bft	34	92	2	-	-	0	0	Tr	-	1	*	bmbcm	bmf	bfx	bccm	
	Thorney Island	1029.4	-4	NW	2	z	43	65	6	-	4	6	0	4-6	-	1029.7	+4	NW	2	z	36	85	5	-	-	8	0	Tr	-	1	*	bmbcm	bccom	bmx	bccm	
2	Lympne ...	1027.8	0	NW	2	z	43	85	6	8	3	9	3	4000	1028.7	+8	NW	1	z	34	52	4	5	3	-	0	0	-	1	§2	bcm	emdomx	bcm	bccm		
	Manston ...	1027.9	+2	NW	3	z	43	85	6	5	9	4	6	4000	1028.6	+6	NW	2	m	40	85	4	5	3	-	0	9	3200	1	*	bccmo	elcbm	bccm	bmf		
	Shoeburyness ...	1028.1	+2	NNW	2	c	43	75	6	5	7	8	4	6	5700	1028.9	+6	NW	2	b	35	85	5	-	4	-	0	1	-	1	*	m-c	czolmow	bccm	bccm	
	Felixstowe ...	1027.7	-2	NW	3	z	44	75	6	1	7	7	0	3	-	1028.7	+6	NW	3	m	37	85	4	-	7	-	0	Tr	-	1	2	*	prbcm	cmobm	bccm	cmbrfx
	Gorleston ...	1026.8	+2	N	3	z	45	75	7	8	7	-	4	7-8	1500	1028.2	+10	NW	2	z	42	85	6	5	-	4-6	4-6	1500	1	2	*	bcc	bccm	bccz	bccm	
3	Mildenhall ...	1028.6	+2	NW	2	z	40	85	6	7	6	0	3	-	1029.4	+6	W'S	1	cft	36	52	3	5	7	-	2-3	10	2400	0	*	bccm	cmcf	bcbfx	bccfx		
	Cranwell ...	1028.8	-2	NNW	2	z	41	75	4	-	7	8	0	4-6	-	1029.4	+6	W	2	bft	36	85	3	-	-	0	0	-	1	*	bccm	bmbf	b	b of		
	Birmingham	1020.5	0	W	2	z	41	75	5	-	1	0	2-3	-	1030.1	+6	W	2	bft	37	52	3	-	-	0	0	-	1	*	FFbc	bcbf	bcb	bcbprc			
	Upper Heyford	1029.7	+2	NNW	2	m	38	85	4	-	5	6	0	4-6	-	1030.2	+6	-	0	m	33	97	4	-	-	0	0	-	3	*	cfbcm	bcbmbm	bmb	cidm		
	Ross-on-Wye ...	1029.4	0	ES	1	bef	36	92	3	5	2	Tr	2-3	4000	1029.7	0	-	0	cf	35	52	2	5	-	-	7-8	7-8	3000	1	*	Fbcb	bcbmf	bmb	cidm		
5	Hartland Point	1029.7	-2	NE	2	bc	46	75	8	2	4	1	2-3	4-6	2500	1030.1	+4	SE	1	c	45	75	7	5	-	9	9	2500	1	3	*	bc	bcc	bcc	bcc	
	Bristol ...	1030.5	-2	NE	0	bef	31	97	1	-	2	0	4-6	-	1030.6	+6	-	0	bef	31	57	3	5	3	-	1	4-6	3000	1	*	bmfbc	bfbef	bcc	bcc		
	Portland Bill ...	1029.4	+2	NE	3	bc	40	85	8	2	-	4	4-6	4000	1029.6	+6	NE	3	bc	39	92	7	5	-	-	4-6	4-6	2500	1	4	*	cbcc	bc	bcc	bcc	
	Plymouth ...	1030.2	+2	NNW	1	m	44	85	4	2	-	1	1	2-3	2000	1030.5	+6	ESE	1	f	39	57	3	4	-	-	9	9	2500	1	1	*	cmf	bmbcm	bcc	bcc
	The Lizard ...	1030.0	0	-	0	c	45	75	8	6	-	8	6	7-8	2500	1030.5	+6	-	0	c	45	85	8	8	-	-	7-8	7-8	2000	0	3	*	cbcc	cbcc	c	c
6	Scilly (St. Mary's)	1030.0	-2	NNE	2	c	51	75	8	8	4	4	4-6	7-8	1500	1030.3	+6	NEN	2	c	47	75	8	8	3	3	4-6	5	1500	1	3	*	cbcc	cbcc	c	c
	Guernsey ...	1029.4	-16	SES	1	c	47	37	8	5	6	-	4-6	7-8	2500	1030.5	+6	NNW	3	c	46	75	7	8	-	-	9	9	4000	1	1	*	bcc	c	prc	prc
	Pembroke ...	1029.4	-4	SW	1	c	49	92	8	8	3	-	7-8	9	2500	1029.4	+10	NNW	1	o	46	75	8	5	-	-	10	10	4000	0	2	*	c	c	c	c
	Holyhead (Valley)	1029.6	-2	-	0	cf	36	92	2	5	-	9	9	3000	1029.4	+6	-	0	rf	40	92	3	5	-	-	10	10	3000	1	*	effx	effr	cbcc	cbcc		
	Chester (Sealand)	1029.1	-2	-	0	cf	36	92	2	5	-	9	9	3000	1029.4	+6	-	0	rf	40	92	3	5	-	-	10	10	3000	1	*	effx	effr	cbcc	cbcc		
8	Manchester ...	1029.3	+2	SW	2	m	38	85	4	-	3	0	4-6	-	1029.5	+4	-	0	m	34	97	4	5	-	-	7-8	7-8	4500	3	*	cbcc	cbcc	c	c		
	Spurn Head ...	1028.3	+6	NNW	3	z	41	75	6	4	3	7	2-3	4-6	4000	1028.5	+4	NNW	1	m	41	85	6	-	-	0	0	-	0	3	*	bcm	bcm	bcm	bcm	
	Catterick ...	1028.7	-6	S	1	z	39	75	6	-	4	5	0	4-6	-	1029.1	+4	-	0	m	33	92	4	5	-	-	4-6	4-6	2500	0	*	cmobc	cmobm	cm	cm	
	Tynemouth ...	1028.0	-2	W	4	bc	39	85	6	-	4	2	0	4-6	-	1028.3	+4	W	3	z	35	85	5	2	-	-	2-3	2-3	2500	1	3	*	bcm	bcm	bccm	bccm
	St. Abbs Head	1027.5	0	SW	2	bc	39	85	8	4	4	2	2-3	4-6	2500	1026.1	-6	SW	4	c	41	85	8	4	4	-	4-6	7-8	2500	0	2	*	bcc	bcc	c	c
11	Leuchars ...	1026.2	-6	W	2	z	38	85	6	-	4	1	0	Tr	-	1025.9	0	WSW	3	z	48	57	5	5	-	-	4-6	4-6	3500	1	*	bxbzo	bmbccm	bccm	bccm	
	Reafrew (Abbots L.)	1027.2	-6	W	1	F+	35	97	1	-	-	10	10	1500	1026.6	-2	-	0	of	39	57	1	5	-	-	10	10	1800	1	*	bpfcd	bccm	bccm	bccm		
	Eakdalemuir ...	1028.6	-2	-	0	c	30	97	7	5	-	9	9	1500	1028.4	-2	-	0	f	33	97	2	5	-	-	10	10	1500	1	*	bccx	oif	c	c		
	Point of Ayre ...	1028.2	+2	W'S	2	c	46	92	8	5	-	10	10	5000	1028.2	0	SWW	2	c	43	75	8	5	1	-	-	7-8	7-8	4000	0	2	*	bcc	oif	c	c
	Tiree ...	1024.8	-6	SWW	4	bc	47	92	8	8	3	-	4-6	4-6	1800	1024.0	-6	SW	4	dr	47	97	6	-	2	-	10	10	1200	1	4	*	bc	cidr	odr	bcb
13	Stornoway ...	1021.8	-16	S	5	pr	48	92	8	8	7	-	7-8	9	2000	1018.8	-22	SSW	6	pr	49	97	7	5	7	-	7-8	9	1500	1	3	*	cpr	cpr	cpr	cpr
	Dalwhinnie ...	1026.4	-6	SW	2	c	39	85	8	8	-	7-8	7-8	2500	1025.8	-4	WSW	2	c	41	92	7	5	2	-	-	7-8	10	2500	1	*	cid	co	cpr	cpr	
	Aberdeen ...	1025.2	-14	SW	2	bc	44	65	6	5	-	1	1	3500	1024.6	-6	SWW	2	m	38	75	4	5	-	-	1	1	1400	3	2	*	bcbzo	bzbzx	bcc	bcc	
	Wick ...	1023.4	-6	SSW	2	bc	43	75	9	5	-	2-3	2-3	4000	1021.9	-6	SW	3	c	43	92	8	5	7	-	-	4-6	9	3000	1	*	bc	bcc	bcc	bcc	
	Sumburgh ...	1021.3	-6	SWW	3	c	47	85	8	5	3	-	7-8	9	2500	1020.0	-10	SW	4	o	47	92	7	5	-	-	10	10	1500	1	4	*	cbcc	c	c	c
17	Blacksod Point ...	1026.2	-6	SSW	2	c	49	85	7	5	-	9	9	2500	1025.8	-2	SW	4	ir	50	92	7	6	-	-	10	10	1500	1	3	*	c	r	d	cr	
	Malin Head ...	1026.1	-6	S																																

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 18th. December				01h. G.M.T. 19th. December				07h. G.M.T. 19th. December				
III	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN
1095	-	01753	18313	5-	02757	18427	5-	61638	17468	30	25844	26384
115				52	81734	20587	52	64725	20588	54	01844	28465
2038	-	02837	16527	7-	62838	16628	6-	64838	28368	05	00390	24313
20654		02865	24116	5-	02864	00024	57	02856	20227	30	01863	28183
21053		01963	17114	5-	02955	17225	51	01864	18225	50	00963	24263
22080		25845	20487	52	58326	20358				58	01654	27114
2305-		21647	20257	62	53634	18228	62	58635	18368	50	00852	28362
24500		00890	23213	51	05662	24113	5-	41446	20477	5-	21753	22265
26050		05666	00016	5-	05667	22217	50	01744	20224	5-	02748	20318
2785-		05667	20127	8-	81746	22356	52	02745	21388	5-	22748	22368
2795-		06457	00067	5-	43368	04148	5-	05556	19357	5-	51548	21468
28523		01854	26415	23	01634	04314				50	05635	28415
28800		05690	17113	50	05663	19114	5-	05568	22228	5-	05567	18167
57553		02843	18124	5-	02747	18227	5-	21848	18158	5-	54648	26258
80150		45264	10144	00	48109	08149	52	05555	24128	5-	05648	24368
82100		43380	24144	00	45290	00040	5-	45366	14146	5-	08468	24148
29954		05644	25214	50	05644	25214	50	01754	24214	50	47354	24244
29204		01630	00014	00	05690	00010	5-	47266	12146	50	45163	10143
310--		04435	26215							--	01636	20216
61400		47390	24146				5-	47358	00048	5-	47268	24248
8385-		05665	08215	5-	05658	00018	5-	01765	26125	57	02765	00027
334--		02763	12204	--	05554	04215				--	03667	20128
340				50	47364	17144	5-	43368	08158	5-	08468	14168
13653		05663	28326	03	05580	30124	00	47290	24140			
33652		02753	32326	57	05543	32328				52	05643	04328
350				00	08430	20200	--	48209	20149	5-	45268	20148
36800		01630	00015	50	05563	00015	5-	08448	00018	5-	05548	00028
37003		05690	30114	03	05590	22113	5-	05566	26226	53	05564	24127
39054		05674	30227	03	47390	26144	00	48390	26140	--	49109	00049
38003		05580	20114	00	41430	00042	5-	43304	00044	57	08465	00028
4385-		03458	02328									
43003		05590	30326	00	05690	32313	00	05590	00012	5-	05567	26217
40053		01763	00014	5-	05667	00017	5-	52668	02158	50	21753	02155

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_h - Height and amount of low cloud—See M.O. 252.
N_h - Total amount of cloud—See M.O. 252.
C₁, C₂ - 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. Friday 19th December
1 S.E. England	Light variable or westerly wind; cloudy and misty with fog persisting in many places. Occasional slight rain later in North of area; cold, with frost in places at night.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light N.W. wind. Mainly cloudy. Average temperature.
6 South Wales ...	
7 North Wales ...	Light westerly wind, veering N.W.; cloudy, occasional rain; local fog; Average or rather low temperature.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Light W. to N.W. wind. Cloudy with occasional rain at first. Bright intervals and local showers later. Rather cold, frost locally at night.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	Light W. to N.W. wind; bright intervals, local showers. Rather cold, frost locally at night.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 11-12.
18 N. E. Ireland	
19 S. E. Ireland	Light S.W. to variable wind. Fair. 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—
 = 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 shallow trough of low pressure extending across southern Scotland and North Ireland will move slowly S.E. and gradually fade out. An anticyclone centred off S.W. England will spread northwards. There will be some local rain associated with the trough and some scattered showers in the north. Otherwise weather will be fair but with much mist or fog in Midland and S.E. districts.

FURTHER OUTLOOK.
 Quiet anticyclonic conditions, with fog in many places.

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, Danlitha.

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.)

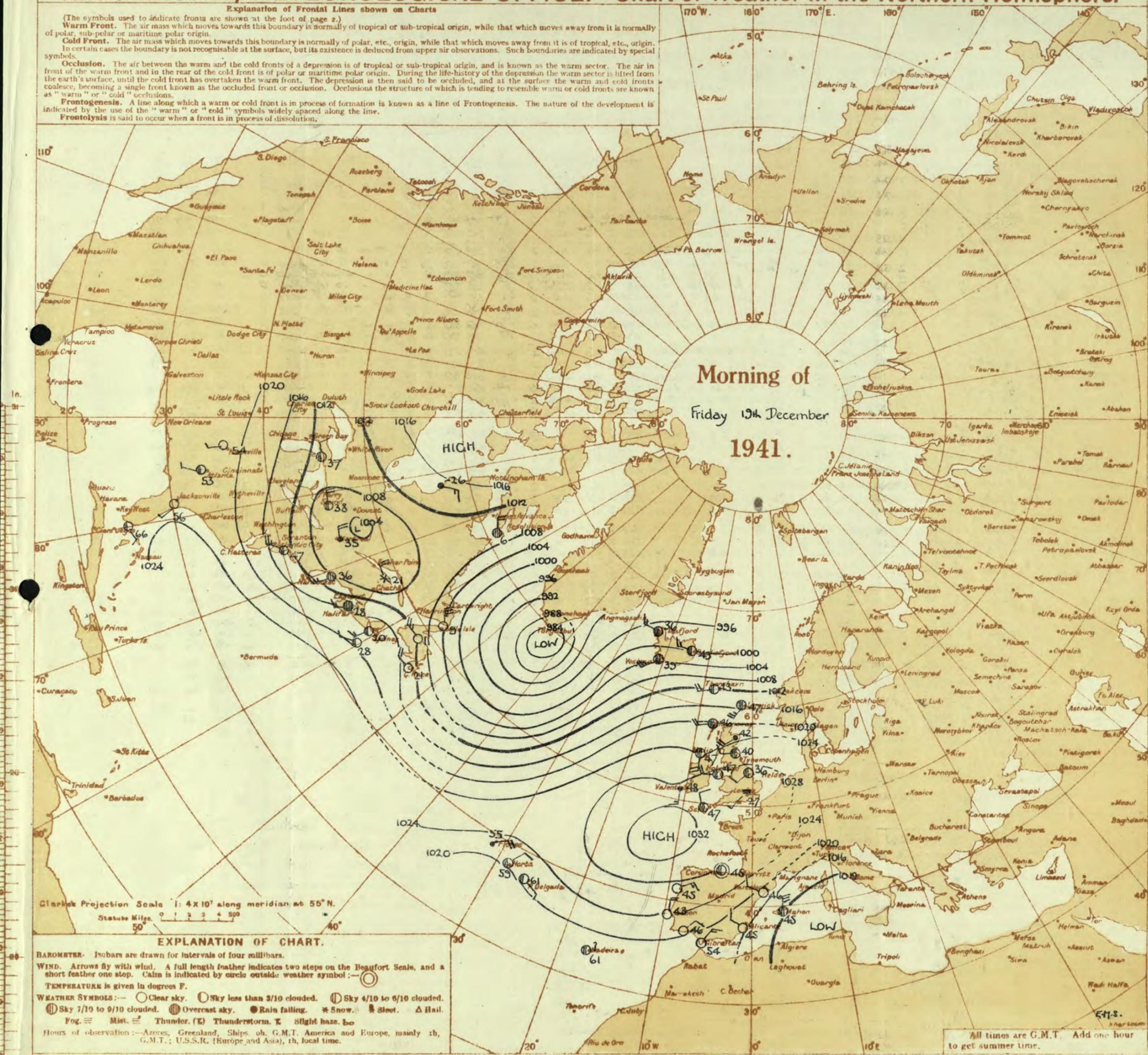
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

SECRET
BRITISH SECTION
Saturday 20th December 1941.
29248

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

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

PAST 24 HOURS.

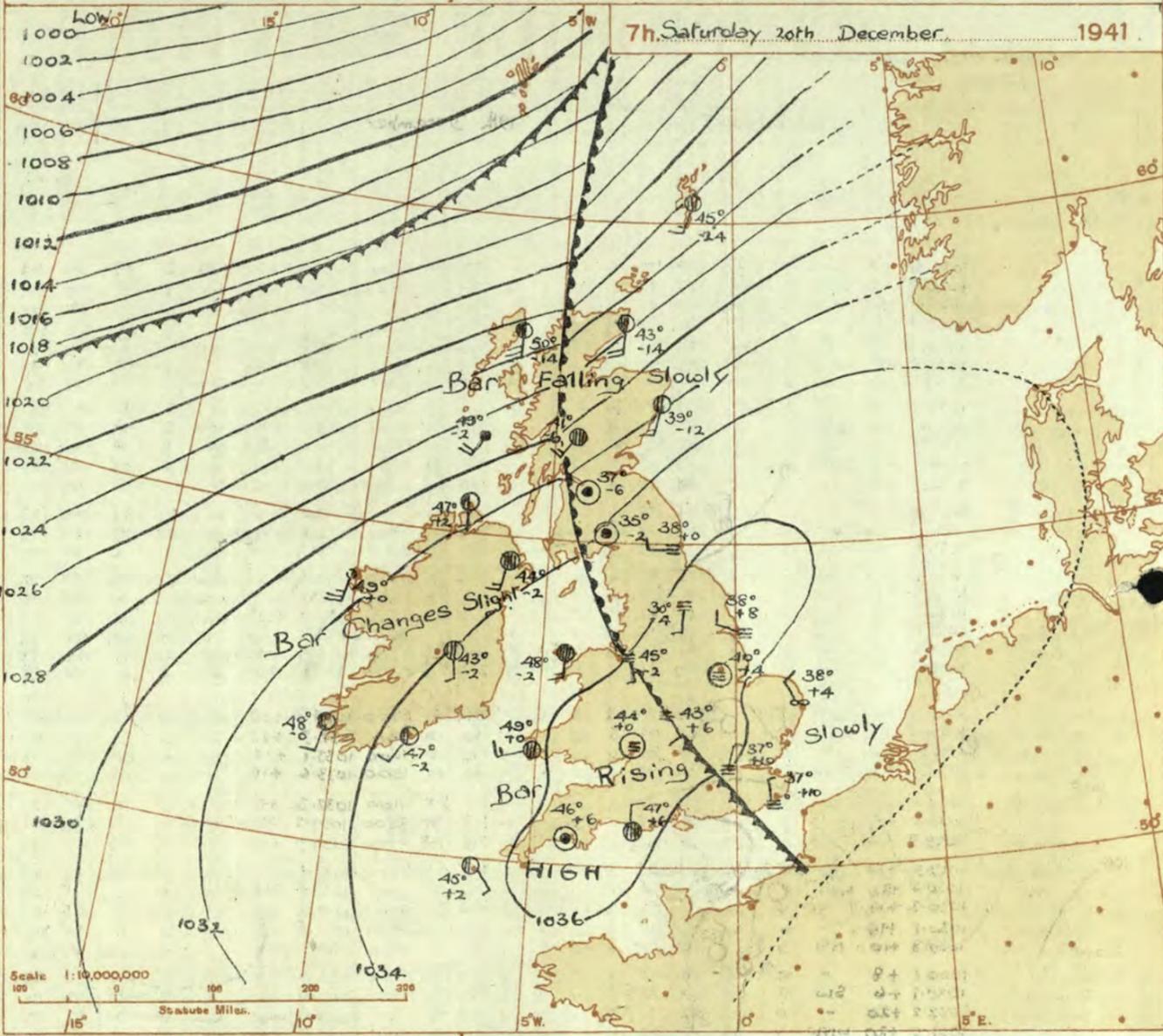
District.	STATIONS. (For heights see p. 4.)	Barom. M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility 0-9	Cloud.				Barom. M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility 0-9	Cloud.				Sea.	WEATHER.								
				Dir.	Force.					Form.	Amount.	Height of Base (feet)	Dir.			Force.	Form.					Amount.	Height of Base (feet)	7h.—13h.	13h.—18h.		18h.—20h.	20h.—21h.							
																													Low.	Med.	High.	Low.	Med.	High.	19th.
1	London (Kew)...	1032.6	+2	SW	1	f	39	92	5	-	9t	9t	4000	1033.9	+10	SW	2	cf	41	92	2	5	-	10	10	4000	1	Fx	cf	of	of	of	of		
	Croydon ...	1032.4	-2	SSE	1	cf	39	92	3	-	9t	9t	4500	1033.1	+10	SW	1	f	40	92	3	5	-	10	10	4800	1	cF	cf	of	of	of	of		
	S. Farnborough	1032.8	-2	W'S	2	z	40	85	5	-	9t	9t	4200	1034.1	+6	-	0	z	35	97	3	5	-	9t	9t	4000	1	cfxm	cm	cm	cm	cm	cm		
	Boscombe Down	1032.9	-2	-	0	z	41	92	4	-	9t	9t	4000	1034.2	+10	-	0	z	43	95	3	5	-	10	10	2400	1	cm	cm	cm	cm	cm	cm		
	Thorney Island	1032.6	-2	NW	1	z	42	85	4	-	10	10	4000	1033.8	+10	NW	1	z	41	92	4	5	-	9t	9t	4000	1	cm	cm	cm	cm	cm	cm		
	Lympne ...	1031.7	-4	NW	1	z	33	92	1	-	10	10	4150	1033.2	+10	-	0	F	35	97	1	5	-	10	10	3500	1	bF	of	of	of	of	of		
	Manston ...	1032.0	-2	NW	2	F	35	97	1	-	10	10	4150	1033.0	+6	W	1	F	39	92	1	5	-	10	10	4150	1	bF	of	of	of	of	of		
2	Shoeburyness ...	1031.9	-4	W	1	f	39	92	3	-	10	10	3500	1033.0	+6	W	1	F	41	85	1	-	-	10	10	4150	1	f	cf	of	of	of	of		
	Felixstowe ...	1031.6	-6	NW	3	m	37	92	4	-	9t	9t	4000	1032.8	+8	W	2	ir	41	85	4	5	-	10	10	1800	1	f	cf	of	of	of	of		
	Gorleston ...	1030.5	0	W	2	c	35	92	5	3	-	4-6	9t	1200	1031.4	+8	NW	2	F	40	85	1	-	-	10	10	4150	0	f	cf	of	of	of	of	
	Mildenhall ...	1031.5	-2	SW	3	m	38	97	4	5	-	9t	9t	3600	1032.5	+6	W	2	df	41	97	3	-	-	10	10	4150	1	of	cm	of	of	of	of	
	Cranwell ...	1030.9	+2	W	3	m	43	85	4	5	-	10	10	4000	1033.1	+18	W	1	F	42	97	1	-	-	10	10	4150	1	cm	cm	of	of	of	of	
3	Birmingham	1031.8	+2	W	2	c	45	75	6	-	0	9	-	1033.5	+12	W	1	rf	44	92	2	-	-	10	10	4150	1	f	cf	of	of	of	of		
	Upper Heyford	1031.7	-2	W	1	z	44	75	6	5	-	4-6	4-6	4500	1033.5	+14	NW	2	df	43	92	3	5	-	10	10	2000	1	me	cm	id	of	of	of	
	Ross-on-Wye ...	1031.8	0	SW	2	c	45	85	8	5	-	10	10	3500	1032.2	+8	W	1	c	45	92	8	5	-	10	10	2500	1	me	cm	id	of	of	of	
4	Hartland Point	1033.1	+2	NW	2	z	47	85	9	8	6	-	4-6	9	2500	1034.1	+6	NW	2	z	47	92	8	5	6	-	4-6	9	1500	1	cid	cm	cid	cid	cid
	Bristol ...	1032.7	-2	NW	2	z	46	85	6	5	3	-	9	9t	3600	1035.1	+18	NW	1	z	44	92	7	5	1	-	4-6	7-8	4000	1	cid	cm	cid	cid	cid
	Portland Bill ...	1032.5	+2	N	2	z	48	92	7	5	-	10	10	2500	1033.7	+12	NW	2	c	47	92	7	5	-	10	10	2500	1	c	cm	cid	cid	cid		
	Plymouth ...	1033.8	+2	NW	1	z	48	75	5	-	9	9	5000	1034.8	+10	-	0	id	46	92	4	5	-	10	10	3000	1	id	bc	cid	cid	cid			
	The Lizard ...	1031.5	+4	-	0	bc	51	65	8	4	-	4-6	4-6	2500	1034.3	+14	NNE	2	c	46	75	8	8	6	-	7-8	7-8	1500	0	3	bc	bc	bc	bc	
	Scilly (St. Mary's)	1033.1	+6	-	0	c	50	75	9	4	4	2-3	7-8	1500	1034.3	+2	-	0	c	45	75	8	8	6	4	4-6	7-8	1500	1	2	bc	bc	bc	bc	
	Guernsey ...	1033.0	+6	WN	3	c	50	97	8	8	-	9t	9t	2500	1034.0	+10	NW	3	c	49	97	7	8	6	-	7-8	10	2500	1	2	pro	id	bc	bc	bc
6	Pembroke	1033.0	+6	WN	3	c	50	97	8	8	-	9t	9t	2500	1034.0	+10	NW	3	c	49	97	7	8	6	-	7-8	10	2500	1	2	pro	id	bc	bc	bc
7	Holyhead (Valley)	1030.9	0	SW	2	dd	48	97	5	5	-	10	10	400	1032.7	+2	-	0	c	47	97	7	5	-	10	10	500	1	2	cd	id	bc	bc	bc	
	Chester (Sealand)	1031.2	+6	-	0	id	49	85	6	5	-	10	10	1500	1033.1	+14	-	0	df	47	92	2	-	-	10	10	4150	1	2	irc	cd	id	bc	bc	
	Manchester ...	1031.5	+2	SSW	2	id	42	92	4	5	-	10	10	1500	1033.6	+18	-	0	df	43	97	1	-	-	10	10	4150	2	2	cm	id	bc	bc	bc	
10	Spurn Head ...	1030.1	+2	W	1	cf	42	85	3	-	2	-	7-8	7-8	1100	1032.3	+16	NW	3	z	45	97	5	8	-	9t	9t	1500	1	2	em	of	cm	cm	cm
	Catterick ...	1030.5	+14	ENE	1	c	47	85	7	5	-	7-8	9t	3500	1034.2	+22	NW	1	bft	43	85	3	5	-	1	1	3500	1	2	em	of	cm	cm	cm	
	Tynemouth ...	1029.8	+16	NW	4	c/r	47	85	7	5	-	7-8	7-8	2600	1032.9	+14	N	3	bc	44	85	7	-	4	-	0	2-3	-	1	3	cif	cb	bc	bc	
11	St. Abbs Head	1029.9	+10	NW	3	bc	45	85	8	4	4	-	2-3	4-6	2500	1032.1	+2	NW	1	bc	44	65	8	4	4	-	1-2-3	2500	0	2	bc	bc	bc	bc	
	Leuchars ...	1030.3	+20	NW	1	z	47	75	8	3	-	0	7	-	1033.4	+22	-	0	z	35	92	6	-	-	0	0	-	1	1	id	bc	bc	bc		
	RAF Leuchars	1030.3	+14	-	0	z	47	75	6	5	3	6	4-6	7-8	2000	1033.5	+18	-	0	f	33	97	2	-	-	10	10	4150	1	1	bc	bc	bc	bc	
	Eskdalemuir ...	1030.1	+14	-	0	c	43	97	6	5	-	7-8	7-8	1500	1033.9	+16	-	0	f	35	92	8	5	-	Tr	Tr	1500	3	1	bc	bc	bc	bc		
	Point of Ayre ...	1030.8	+10	N/E	3	b	49	85	8	2	4	-	Tr	1	1000	1032.7	+18	-	0	bc	40	97	8	5	-	4-6	4-6	2000	1	1	ra	of	bc	bc	
13A	Tiree ...	1030.1	+8	-	0	bc	46	85	8	1	3	6	2-3	2-3	3500	1030.4	+4	-	0	b	37	92	8	-	-	0	0	-	0	2	bc	bc	bc	bc	
13B	Stornoway ...	1029.1	+6	SW	2	c	44	92	8	1	4	6	Tr	9t	3500	1029.9	+2	S	3	b	43	85	8	2	-	Tr	Tr	3500	1	1	cb	bc	bc	bc	
15	Dalwhinnie ...	1032.2	+20	-	0	b	42	75	8	-	4	-	0	Tr	-	1033.2	+12	NW	1	b	37	85	8	2	-	Tr	Tr	4000	3	1	bc	bc	bc	bc	
	Aberdeen ...	1030.0	+20	NW	3	b	43	75	6	-	-	0	0	-	1032.8	+18	NW	1	m	36	85	4	-	4	-	0	Tr	-	3	1	bc	bc	bc	bc	
	Wick ...	1029.2	+22	W'S	3	b	41	85	9	2	-	1	1	2500	1031.2	+14	SW	1	bc	37	85	9	-	4	2	0	4-6	-	1	1	bc	bc	bc	bc	
	Sumburgh ...	1026.0	+26	NW	4	bc	46	75	8	-	-	4-6	4-6	2500	1029.2	+18	NW	2	pr	47	75	7	8	-	9	9	2500	1	4	bc	bc	bc	bc		
17	Blacksod Point...	1029.2	0	E	1	dr	48	97	6	6	-	10	10	800	1029.8	+12	SW	4	d	51	97	6	6	-	10	10	800	1	3	r	d	d	d		
18	Malin Head ...	1030.6	+10	NE	1	bc	49	75	8	-	1	0	2-3	-	1031.1	+6	SSE	3	bc	42	92	8	4	-	4-6	4-6	4000	1	5	bc	bc	bc	bc		
	Aldergrove ...	1031.6</																																	

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 1941				01h. G.M.T. 20th Dec.				07h. G.M.T.				
III	ww	N _h	DDFWN	C ₁	ww	N _h	DDFWN	C ₁	ww	N _h	DDFWN	
109	40	01853	26313	50	02855	21325	00	05790	17406	5-	02757	51527
115				54	02944	20325	52	02844	20326	52	81844	20587
203				50	01944	16424	5-	02848	16408			
206	50	00961	26113	5-	01763	00013	00	00790	00000	5-	02855	00025
210	50	00861	26301	00	00890	16212	00	00890	12303	57	01863	16215
220	50	01954	12104	50	01654	13104						
230	00	00890	10103	00	00890	00001	51	52647	16258	51	52647	19458
245	50	00941	28201	50	00761	23111	00	05590	23100	5-	08448	25118
260	5-	05673	00023	00	47290	00040	00	43290	00040	5-	21548	00058
272	20	00951	30301	00	08490	12103	5-	51638	14258	5-	02748	18258
279	50	05654	00024	00	41490	06340	5-	08428	00028			
285	5-	05638	32428	50	00852	02212				5-	05637	30327
288	52	57344	24168	5-	45364	30144	00	08490	16100	00	47190	20140
525	5-	02748	10158							5-	02747	24257
301	02	52508	24258	--	46209	00058	--	44309	12259	--	57109	10159
321	5-	05568	24228	5-	43248	26158				5-	47348	14148
299	5-	47238	22238	50	00751	32301				5-	01753	24113
292	02	51668	22428	5-	05546	28156	00	45190	00040	5-	47348	13148
310	--	57109	20249	--	57209	20249				--	46109	20249
614	5-	22477	24267	57	21144	00056	5-	45338	00048	5-	47348	02128
333	5-	54518	00058	5-	41628	00048	5-	57148	00058	5-	47248	00058
334	--	03646	28228	--	03546	28228						
340	5-	02758	16128	5-	05648	00028	--	57109	09159	--	57109	14359
136	5-	08467	22147	--	57109	24359	5-	03641	32251	00	45290	00040
336	52	02753	04327	52	05544	24328				--	57109	28349
350	5-	08468	21248	52	21448	24158	--	46009	00059	5-	43248	00048
308	5-	05668	24168	5-	51748	25158				5-	45238	00058
879	5-	02765	24125	5-	05547	24117	5-	21428	28158	--	46109	00049
390	5-	43268	00048	5-	48258	25148	--	44109	28159	04	43290	26142
382				5-	08458	00028	5-	08428	28128	5-	41458	00048
438	5-	04768	30218							5-	01635	06415
430	5-	08467	30127	5-	05568	00028	5-	05538	32248	5-	05545	02426
409	5-	02966	18127	5-	02844	30166	5-	01753	00023	5-	02758	04118

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C₁ - 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. Saturday 20th December.

1 S.E. England	Light variable wind, fog persisting in many areas, but some clearances on East coast, rather cold.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light variable wind; dull locally with slight drizzle, but mainly fair; fog locally inland rather low to average temperature
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Light variable wind becoming light westerly; dull with light drizzle locally. some bright intervals; fog in many places especially at night.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Moderate southwest wind, fresh or strong in North; cloudy, slight rain or drizzle; rather mild.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	As 7-11
15 N. E. Scotland	Moderate southwest wind mainly cloudy, but bright intervals rather mild
16 Orkneys and Shetlands	As 12-13
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	Light or moderate southwest winds. Fair. 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
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 covers most of England and Ireland. Pressure is low near Iceland and a trough is moving northeast across Scotland. It will continue foggy over much of England. In North and West Scotland weather will be cloudy and mild, with occasional rain, but it will be fair in East Scotland and in Ireland.

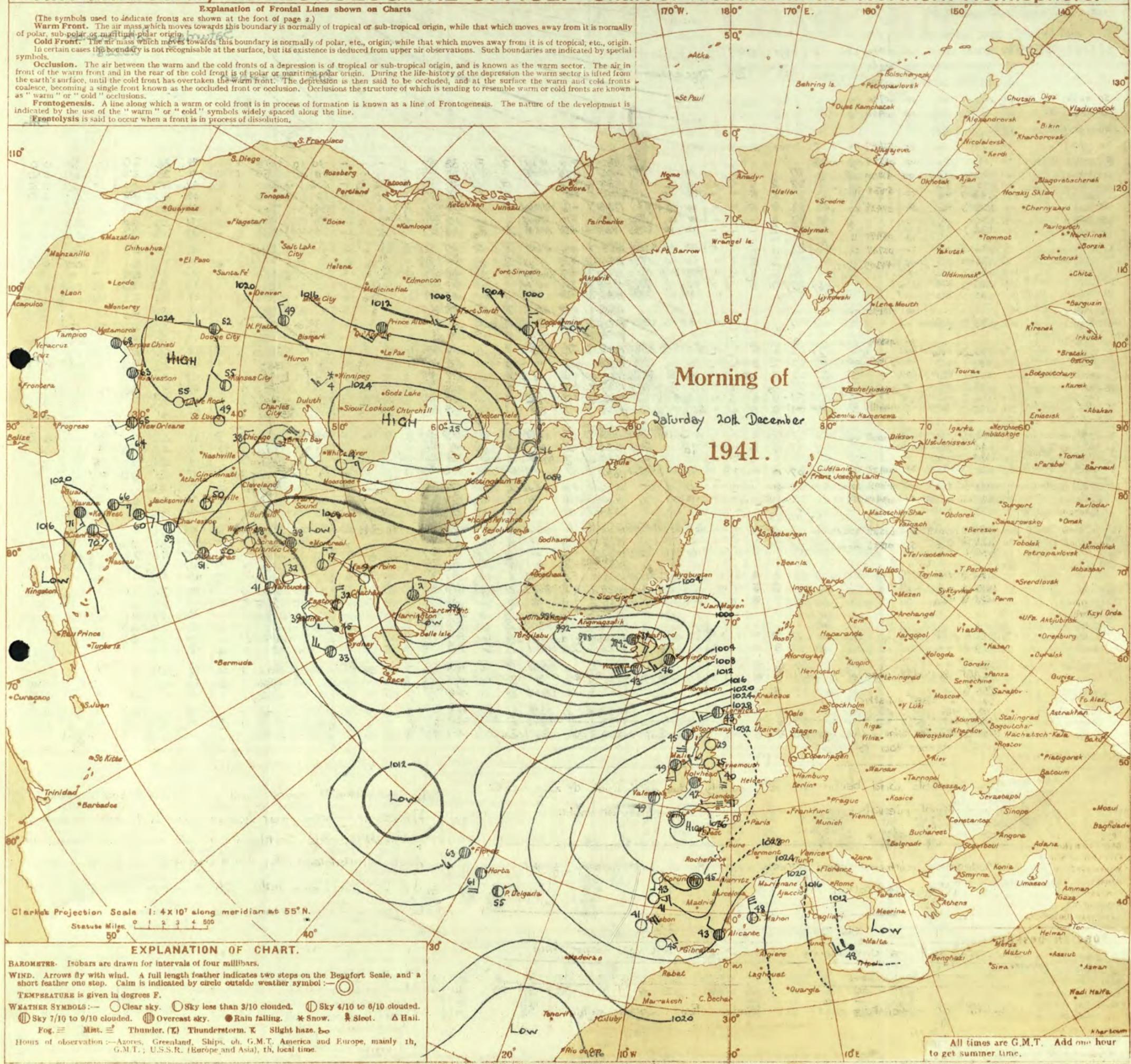
FURTHER OUTLOOK.
No great change.

Forecasts issued at 10.30 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.



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. (⚡) 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.

SECRET

Sunday 21st December 1941.
No. 29249

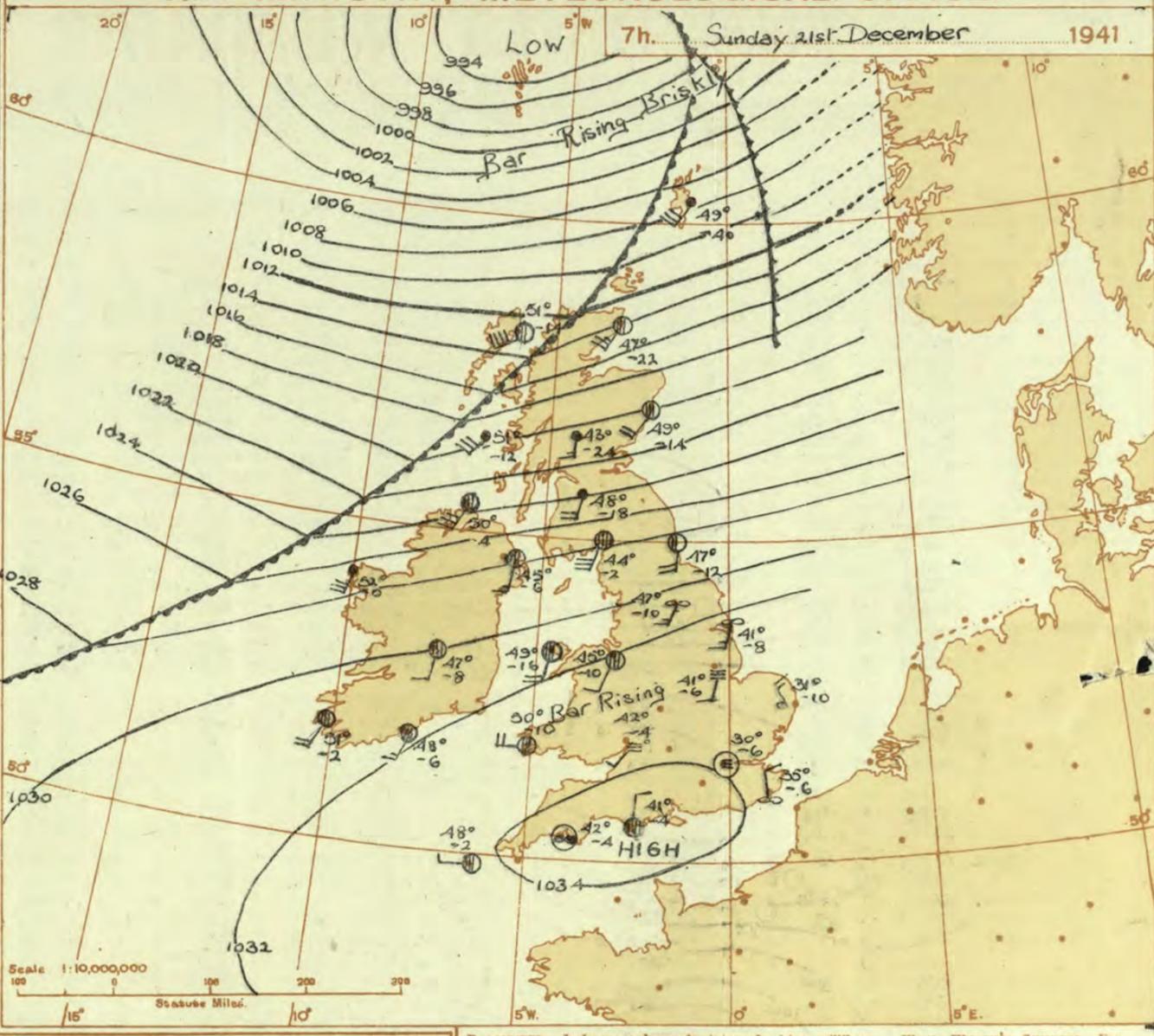
OBSERVATIONS at 13h. G.M.T. 20th December														OBSERVATIONS at 18h. G.M.T. 20th December														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. 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.						
				Dirac.	Force.					Form.	Amount.	Height of Base (feet)	Form.	Amount.			Height of Base (feet)	Form.					Amount.	Height of Base (feet)	7h.—13h. 20th	13h.—18h. 20th	18h.—20h. 20th			1h.—7h. 21st						
1	London (Kew) ...	1036.6	-6	N	1	F	39	97	1	-	-	10	10	1500	1036.5	+4	N	1	m	38	97	4	5	-	-	9+	9+	2500	1	*	ofFe	bcm	cmff	ofF		
	Croydon ...	1036.4	-2	N	1	F	38	97	1	-	-	10	10	1500	1036.5	-2	N	1	of	37	97	2	5	-	-	10	10	300	1	*	ofe	ofe	om	ofofe		
	S. Farnborough	1037.0	-6	NW	1	F	39	97	4	5	-	10	10	500	1036.2	-2	N	1	m	36	97	4	5	-	-	10	10	300	1	*	bcmofm	om	cmfo	ofwFe		
	Boscombe Down	1036.5	-8	NW	1	F	45	85	5	5	3	1	Tr	Tr	1500	1036.4	+8	E	2	Ft	36	97	1	-	-	10	10	1500	1	*	bcm	bcm	FF	CF		
	Thorney Island	1036.0	-2	NW	2	F	44	85	6	5	4	1	Tr	Tr	4000	1035.8	-2	N	2	z	35	92	5	-	-	0	0	-	1	*	bcbmo	bcmobm	obm	mbcfx		
	Lympne ...	1034.7	-14	NW	2	F	44	85	6	1	-	4.6	4.6	2000	1034.9	0	N	2	m	38	97	4	5	-	-	7.8	7.8	100	1	§	bmbcm	bcmobm	bcmofF	ofcmo		
	Manston ...	1036.5	-2	N	3	F+	41	97	3	5	-	9+	9+	1500	1035.4	+2	N	2	m	41	92	4	5	-	-	9+	9+	800	*	*	bcbcmof	cfcm	cmomf	ofcmo		
2	Shoeburyness ...	1036.1	-4	NNW	3	F	38	97	1	-	-	10	10	1500	1036.0	+2	N	2	F+	36	97	1	-	-	-	10	10	1500	1	*	bcmof	FfF	Fefe	off		
	Felixstowe ...	1036.1	-2	NNW	3	F+	37	97	1	-	-	9+	9+	100	1036.0	+2	N	2	F+	36	97	2	-	-	-	10	10	1500	1	2	ofcf	Fof	Fe	offecm		
	Gorleston ...	1035.7	-4	NNW	3	F+	38	92	1	-	-	10	10	1500	1035.3	0	N	2	F+	38	97	2	-	-	-	10	10	1500	1	2	bcmFF	FfF	ofof	bffcbx		
	Mildenhall ...	1037.2	-6	-	0	F	35	97	1	-	-	10	10	1500	1036.2	-2	-	0	dF	34	97	1	-	-	-	10	10	1500	1	*	offe	ofed	ofex	bffcbm		
	Cranwell ...	1036.9	-2	WSW	1	F	39	97	5	5	-	-	-	10	10	500	1034.9	-10	S	2	of	40	97	2	5	-	-	10	10	1800	1	*	ofecm	cmof	ofido	ozff
3	Birmingham	1036.5	-6	-	0	of	43	97	2	5	-	10	10	450	1035.5	-4	S	1	F	44	97	1	-	-	-	10	10	1500	1	*	Fof	o	odofm	oc		
	Upper Heyford	1036.5	-6	SW	1	F	38	97	1	-	-	10	10	1500	1035.7	-2	-	0	F+	38	97	1	-	-	-	10	10	1500	1	*	cfmof	of	cfof	of		
	Ross-on-Wye ...	1036.0	-6	WSW	1	F	47	92	5	5	-	10	10	1500	1035.0	0	SSE	1	m	45	97	4	5	7	-	7.8	9+	2000	1	*	Fof	czcm	of	cmom		
5	Hartland Point	1036.5	-4	NNW	2	C	48	97	9	6	8	4.6	7.8	2000	1035.7	+4	SE	1	bc	45	85	8	5	-	5	2.3	4.6	2500	1	4	cid	cbc	bccv	c		
	Bristol ...	1036.3	-10	-	0	C	46	97	4	-	-	10	10	800	1035.9	-2	-	0	of+	43	97	3	5	-	-	10	10	1000	1	4	ofefm	cmf	c	offfe		
	Portland Bill ...	1035.7	-6	ENE	2	C	47	92	5	5	-	10	10	2500	1035.0	+2	NE	2	C	44	92	7	5	-	-	7.8	7.8	2500	1	2	oz	o	c	c		
	Plymouth ...	1036.6	-6	NNE	3	C	48	97	6	5	-	9+	9+	3500	1036.1	+6	E	1	z	43	97	5	5	-	-	2.3	2.3	4000	1	2	cidfmo	cbcmow	bcmcmo	bcmcmo		
	The Lizard ...	1036.7	-10	NNE	3	C	48	85	8	2	-	7.8	9+	2000	1035.7	-2	NE	3	bc	45	75	8	8	-	-	4.6	4.6	2500	1	2	cidac	bc	coc	c		
	Soilly (St. Mary's)	1035.8	+8	S	1	C	51	85	8	4	-	7.8	9+	1500	1035.0	+2	SSE	2	bc	48	85	8	8	3	-	2.3	2.3	1500	1	2	bcc	cbc	bcc	c		
	Wynsey ...																																			
6	Pembroke	1026.4	-2	SWW	2	C	51	85	8	2	6	4.6	7.8	4000	1035.7	0	SW	3	bc	49	92	8	2	6	-	1	2.3	3000	1	2	c	bc	bcc	c		
	Holyhead (Valley)	1034.7	-10	SW	3	C	49	85	8	5	-	9	9	800	1034.3	+2	SW	2	C	49	85	8	1	-	-	9+	9+	2100	0	2	cmdmd	bc	c,b	cbcc		
	Chester (Sealand)	1035.6	-10	SES	2	C	46	97	3	5	-	10	10	3500	1034.9	+2	SE	1	F	43	97	0	-	-	-	10	10	1500	1	*	ofdo	ofF	cfbcf	cf		
	Manchester ...	1036.0	-10	SW	2	C	44	97	4	5	-	9+	9+	2500	1035.4	+2	SW	3	F+	43	97	1	-	-	-	10	10	1500	1	*	cidof	cmfof	Fdo	ofcmo		
10	Spurn Head	1036.8	+8	N	2	F+	39	92	2	-	-	10	10	1500	1035.3	-4	S	3	F+	38	97	1	-	-	-	10	10	1500	1	2	ff	off	om	o		
	Catterick ...	1035.7	-14	SW	2	cf	37	97	2	5	-	9+	10	1200	1034.0	-4	SSE	2	F	36	97	0	-	-	-	10	10	1500	1	*	FFc	cfof	ofcmo	cmo		
	Tynemouth ...	1034.1	-8	WSW	3	cf	42	92	3	3	-	4.6	7.8	2000	1032.7	+2	SW	3	bcf	41	92	3	2	4	-	2.3	4.6	2000	1	3	ocff	cbcff	bfffc	cbc		
11	St. Abbs Head	1030.3	-16	SW	5	C	45	97	7	5	4	7.8	9+	2500	1029.9	-4	SW	5	bc	46	85	7	4	4	-	1	2.3	2500	0	3	c	cpc	bc	c		
	Leuchars ...	1030.9	-18	-	0	C	44	97	4	5	7	7.8	10	1800	1029.5	-6	WSW	3	z	45	92	5	5	-	-	10	10	1200	1	*	cmdidm	cmcmo	idomoc	c		
	Renfrew (Abbots L.)	1034.9	-6	SW	3	F	48	85	6	5	-	9+	9+	1200	1030.8	-6	SW	2	z	46	85	6	5	-	-	10	10	1000	1	*	doctemo	cmo	cmo	cmoido		
	Eskdalemuir ...	1033.2	-6	SSW	3	F	43	97	1	-	-	10	10	1500	1032.2	-2	SW	3	do	43	97	5	-	-	-	10	10	220	1	*	ofdo	ofdo	ofdo	oidoc		
	Point of Ayre ...	1034.1	-2	N	3	C	51	85	8	5	3	2.3	7.8	3000	1033.4	0	W	3	C	47	92	8	8	1	-	9	10	2000	1	2	idac	C	cbcc	C		
13A	Three ...	1028.0	0	SW	4	C	49	85	7	5	-	10	10	1500	1026.1	-8	SSW	5	dd	47	97	7	-	2	-	10	10	1500	1	5	o	odr	cid	oid		
	Stornoway ...	1025.4	+8	SW	6	C	51	92	7	5	2	7.8	9+	1000	1022.4	-18	SSW	7	c/a	49	97	7	5	2	-	9	10	900	1	4	cr	cid	id	cpido		
	Dalwhinnie ...	1030.4	-2	SSW	3	id	43	92	6	5	-	10	10	1500	1029.2	-14	SW	4	C	42	92	7	5	2	-	9	10	1500	1	*	oid	oid	oid			
	Aberdeen ...	1028.6	-12	SSW	1	bc	42	92	6	5	2	9	4.6	2800	1026.6	-18	W	1	bc	45	85	5	5	-	-	4.6	4.6	2300	1	2	cbcz	bczo	bczo	bcze		
	Wick ...	1025.0	-10	SW	5	ir	47	85	8	5	9	4.6	10	2000	1023.5	-8	SSW	2	C	46	85	8	-	7	-	0	9+	-	1	*	cir	cir	c			
	Sumburgh ...	1022.4	-18	SSW	5	dr	48	92	6	6	-	10	10	700	1020.9	-10	WSW	5	C	49	92	8	5	-	-	9	9	3500	1	4	cdrom	dozc	ccirc	cirododo		
17	Blacksod Point...	1029.3	-8	SW	5	C	51	92	8	5	-	9	9	1500	1028.2	-6	S	5	pr	51	85	7	9	-	-	9+	9+	1500	1	4	c	pr	bc	r		
	Malin Head ...	1029.3	-12	S	5	C	47	85	8	5	-	4.6	7.8	1500	1028.2	-10	S	4	C	48	85	8	5	-	-	7.8	7.8	2500	1	4	bc	c	c			
	Aldergrove ...	1033.3	-6	S	3	z																														

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 20th December				18h. G.M.T.				01h. G.M.T. 21st December				07h. G.M.T.			
III	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN
109	52	21645	19458	57	02754	20625	52	03744	19428	5-	61748	53628			
115	52	81735	20588	52	81735	20608	52	14935	87788	52	81635	87888			
203	6-	22828	16668	6-	62828	16668	5-	02838	19268						
206	52	22855	20367	53	02955	53667	5-	02896	53626	5-	22857	55667			
210	57	02963	53428	57	02953	19467	57	02866	53528	50	01863	18513			
220				52	58636	23558				51	02434	24418			
230	52	02847	18228	57	21754	18258	5-	02748	18228	5-	52648	53468			
245	57	05556	26258	57	06554	26316	52	05654	53518	57	02863	55427			
260	70	02752	18228	5-	02747	21317	5-	02768	22358	5-	12757	22227			
278	5-	02848	14328	5-	61738	21268	5-	02858	18268	5-	02754	18326			
279	53	05644	18425	5-	52548	20458	5-	05658	22528	5-	02768	19528			
285	23	05634	30426												
288	53	41454	18248	00	45220	18240	5-	05657	20227	5-	02757	18327			
575	5-	51638	14158	5-	21848	18258	5-	51638	18358	5-	02748	18228			
301	--	21209	16257	5-	45258	15248	52	21555	18257	5-	05665	19365			
321	5-	08435	12148	5-	47248	16248	5-	43348	16148	5-	08458	18148			
290	5-	08448	23228												
292	03	47390	00048	--	43209	13249	5-	05548	18248	5-	05547	17227			
310															
614	53	45345	24147	5-	47258	20148	--	43009	00049	--	44109	18149			
333	5-	02735	16*57	5-	02847	00017	5-	01865	20315	51	02874	20258			
334	--	53437	02258	--	01762	02203									
340	--	57203	14153	--	48109	00049	5-	41648	00058	5-	05658	18128			
136	--	46109	00049	--	57109	00059	5-	43348	16158						
336	52	41544	28348	54	01753	24315									
350	--	46000	18149	--	46109	00059	5-	47268	14248	5-	47168	16248			
308	5-	05557	02157	5-	45348	23198	50	43353	30143	5-	43238	00048			
379	5-	08428	18128	--	46109	00049	--	46109	00049	--	46109	16149			
390	--	46109	30249	--	48109	32149	--	46109	20149	--	48009	00049			
382	5-	05538	22128	--	48109	00049	5-	43318	00048	5-	05528	00028			
438	50	00681	32301							50	01663	04313			
430	50	05621	23212	00	05590	32111	00	45390	02140	00	43290	00040			
409	5-	02966	02427	50	00861	04111	5-	02768	09118	5-	02768	13228			

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_h - Height and amount of low cloud - See M.O. 252.
N - Total amount of cloud - See M.O. 252.
C_M, C_h - 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 21st December,
1 S.E. England	Light variable winds becoming S.W. Fair apart from fog. Fairly general fog probably persisting. Rather cold in foggy areas.
2 E. England ...	
3 E. Midlands ...	Light variable winds becoming S.W. light or moderate. Mainly cloudy but clear intervals locally. Fairly general fog at first clearing slowly.
4 W. Midlands ...	
5 S.W. England	Rather cold, becoming slowly milder.
6 South Wales ...	
7 North Wales ...	Moderate S.W. winds, fresh or strong locally on coasts veering W. and decreasing. Mainly cloudy. Occasional rain. Rather mild.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Fresh S.W. winds, strong to gale locally on coasts, veering W. to N.W. and decreasing later. Occasional rain at first. Bright intervals and showers later with local hail and thunder in the North.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	Rather mild, becoming colder in the North.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 7-10.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	Moderate S.W. wind, veering W. Mainly cloudy. Local rain. 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.

An elongated anticyclone extending from S.W. of the British Isles to Eastern Europe is moving slowly south and a deep depression to north of Scotland is moving quickly eastwards. In Scotland there will be rain at first followed by squally showers and bright intervals. In North England and North Midlands weather will be mainly cloudy with occasional rain later. In the south of England and south Midlands there will be fairly general fog which will clear slowly in the south Midlands but probably persist in South England. It will be rather cold in foggy areas but rather mild elsewhere. Strong gale locally will occur.

FURTHER OUTLOOK. S.W. winds reaching in Scotland.

Mainly quiet weather in the South with local fog. Rather unsettled in the North.

Galwaning in operation in districts 11, 13, 15, 16, 17 & 18. Times of issue. 1830h on 20:12:41 and 0600h on 21:12:41 and 0645h on 21:12:41.

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.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol: ○
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: — Clear sky. ○ Sky less than 3/10 clouded. ◐ Sky 4/10 to 6/10 clouded. ◑ Sky 7/10 to 9/10 clouded. ◒ Overcast sky. ● Rain falling. * Snow. † Sleet. △ Hail. Fog. ≡ Mist. ⚡ Thunder. (⚡) Thunderstorm. ☼ Slight haze. ☁
 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.

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

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

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.				Sea. (30)	TEMPERATURE.			SUNSHINE 20th Hrs. (36)								
					Direc. (3)	Force (4)				Weather (5)	Form.		Amount (12)			Height of Base (feet) (14)	Direc. (17)				Force (18)	Weather (19)	Form.			Amount (26)	Height of Base (feet) (28)	State of Ground (29)		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 (9)	Med. (10)											High (11)	Low (23)											Med. (24)	High (25)	Low (27)
1	London (Kew)	18	*	*	*	*	36	*	*	*	*	*	1034.7	-4	WNW	1	F	32	97	1	-	-	-	10	10	1500	1	*	40	32	30	-	Tr	0.0			
	Croydon	217	1035.3	+8	NW	2	of+	34	97	3	5	-	10	10	400	1034.0	-6	-	30	97	1	-	-	10	10	1500	1	*	38	30	*	Tr	0.0				
	S. Farnborough	226	1035.7	-8	NW	2	of	34	97	3	5	-	10	10	100	1034.0	-2	-	30	97	1	-	-	10	10	1500	1	*	41	29	29	-	Tr	0.0			
	Boscombe Down	417	1035.9	-4	E	1	F	33	97	0	-	-	10	10	<150	1034.8	-2	N	1	of	35	97	2	5	-	10	10	1000	1	*	45	32	31	Tr	1.0		
	Thorney Island	10	1035.3	-6	NNE	1	m	32	97	4	-	-	0	0	-	1034.2	-6	NNE	1	bcf	28	97	2	-	4	6	0	46	-	3	*	44	27	21	-	-	
	Lymington	346	1034.8	+2	N	4	F	35	97	3	-	-	10	10	<150	1033.7	-6	NNW	2	z	35	97	6	5	-	9	9	3700	1	\$2	45	35	32	-	-		
	Manston	154	1035.2	+2	NW	2	F	37	97	2	-	-	10	10	<150	1034.0	-6	NW	1	z	37	92	5	5	-	9	9	3000	1	*	45	36	33	Tr	-		
2	Shoeburyness	11	1035.5	-4	NNE	2	F+	34	97	2	-	-	10	10	<150	1034.2	-10	-	0	f	31	97	2	-	-	10	10	<150	1	*	41	30	30	-	Tr	2.1	
	Felixstowe	15	1034.9	-8	NW	3	F	36	97	4	5	-	9	9	2700	1033.8	-6	NW	2	bf	30	92	1	-	-	0	0	-	1	2	39	29	29	-	-		
	Corleston	5	1034.9	-6	NW	2	z	36	92	5	5	-	2.3	2.3	1500	1033.4	-10	NW	3	z	31	85	6	-	4	-	0	2.3	-	3	2	40	29	25	-	-	
	Mildenhall	19	1036.1	-2	SW	1	F	32	97	1	-	-	10	10	<150	1034.2	-6	S'W	1	of	31	97	4	-	7	-	0	7.8	-	1	*	37	30	30	0.1	1	
	Cranwell	240	1034.4	-8	S	1	F+	39	97	1	-	-	10	10	<150	1032.7	-6	S'W	2	of	41	97	2	5	-	10	10	3000	1	*	41	39	38	0.1	1		
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	1033.4	-4	SW	2	o	42	92	6	5	-	-	10	10	2500	1	*	44	41	37	0.1	0.1				
	Upper Heyford	408	1034.9	-4	SSW	1	F	37	97	1	-	-	10	10	<150	1034.2	-	-	0	F	37	97	1	-	-	10	10	<150	1	*	41	36	37	Tr	-		
	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	1033.3	-4	SW	1	m	42	97	4	5	-	-	10	10	1500	1	*	47	42	40	Tr	-				
5	Hartland Point	299	1034.3	-10	SSE	2	c	47	85	8	5	2	-	7.8	10	2500	1033.3	-6	SSW	1	c	47	75	7	5	2	-	4.6	9	1500	1	3	49	45	37	0.2	-
	Bristol	209	1034.7	-8	S	1	of	42	97	3	5	-	10	10	1500	1034.2	-2	-	0	f	42	97	1	-	-	10	10	<150	1	*	47	39	35	-	-		
	Portland Bill	32	1034.8	+4	N	2	c	42	85	7	5	-	7.8	7.8	2500	1033.3	-4	N	2	c	41	92	7	4	-	10	10	2500	1	2	48	39	*	-	-		
	Plymouth	82	1035.2	-4	-	0	z	44	92	6	5	-	7.8	7.8	4000	1034.2	-4	-	0	z	42	92	5	5	-	9	9	2000	1	2	48	39	31	Tr	-		
	The Lizard	240	1034.9	-8	ENE	2	c	47	92	8	5	-	7.8	9	1500	1034.3	-2	ENE	2	o	47	92	7	5	-	10	10	1500	0	3	49	43	*	Tr	-		
	Scilly (St. Mary's)	163	1034.7	-4	SE'S	2	o	47	85	7	5	-	10	10	1500	1033.8	-2	W	1	c	48	92	8	5	2	-	7.8	10	1500	1	2	51	45	*	-		
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	1033.8	-2	W	1	c	48	92	8	5	2	-	7.8	10	1500	1	2	51	45	*	-	-				
6	Pembroke	142	1034.6	-6	SW	3	c	50	92	8	1	-	7.8	7.8	4000	1033.6	-10	W	4	c	50	75	7	5	2	-	7.8	10	2500	1	2	52	43	*	-		
	Holyhead (Valley)	26	1033.0	-6	SW	4	c	49	75	8	5	-	9	9	2800	1031.1	-16	SSW	4	c	49	75	9	5	-	9	9	3200	1	3	50	46	42	Tr	-		
	Chester (Sealand)	16	1034.0	-6	SSE	1	of	42	92	3	5	-	10	10	2400	1031.9	-10	SW'S	2	c/f	45	85	4	5	-	9	9	2500	1	*	47	39	33	Tr	-		
	Manchester	235	1034.7	-2	SSW	2	f	42	97	2	-	-	10	10	<150	1032.2	-8	SW	2	ido	43	97	6	5	-	10	10	2000	1	*	45	42	39	Tr	Tr		
10	Spurn Head	29	1034.0	-12	SW'S	2	m	40	92	4	5	-	10	10	800	1032.4	-8	SSW	3	z	41	97	5	5	-	10	10	800	1	2	41	37	*	Tr	Tr		
	Catterick	175	1032.1	-10	SSW	3	z	47	75	5	5	-	10	10	1500	1029.8	-10	SSW	3	z	47	75	6	5	1	-	10	10	1800	1	*	38	35	33	-	-	
	Tynemouth	108	1030.7	-6	S	2	z	44	92	6	5	-	9	9	1500	1027.8	-12	S	4	bc	47	75	6	2	-	4.6	4.6	2500	1	3	44	40	35	-	-		
11	St. Abbs Head	280	1028.4	-8	W	2	bc	46	85	7	4	4	-	2.3	4.6	2500	1023.3	-36	SW	3	c	47	75	8	5	4	-	4.6	7.8	2500	0	3	47	44	*	-	
	Leuchars	36	1025.9	-18	W	6	o	46	85	7	5	-	10	10	1800	1021.9	-22	W	7	c	47	85	8	5	7	-	9	10	1600	1	*	46	45	43	0.1	Tr	
12	Renfrew (Abbots I.)	19	1028.1	-14	SW	3	z	47	85	6	5	-	10	10	1600	1023.9	-18	SW'S	4	ido	48	85	6	5	-	10	10	2500	1	*	48	45	44	0.1	Tr		
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	1026.0	-2	SW'S	6	o	44	92	7	5	-	-	10	10	800	1	*	44	41	43	0.6	0.2				
	Point of Ayre	30	1031.4	-10	WSW	4	c	47	85	8	5	1	-	9	9	3000	1028.6	-14	WSW	4	c	48	85	8	5	2	-	7.8	10	3000	0	3	52	46	*	0.2	
13A	Tiree	22	1022.2	-20	SW	5	c	49	97	7	5	*	9	9	1500	1019.8	-12	SW'W	6	ido	51	97	6	5	-	10	10	1200	1	*	50	47	*	1			
13B	Stornoway	80	1016.3	-38	SSW	8	pr	50	97	7	6	2	-	7.8	10	1500	1012.5	-14	WSW	8	bc	51	92	7	6	7	-	4.6	4.6	1000	1	5	51	47	*	0.4	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	1020.3	-24	S	3	ir	43	92	7	5	-	-	10	10	1500	1	*	44	42	38	0.5	2				
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	1018.7	-14	SW'W	4	c	49	75	7	5	-	-	7.8	7.8	1500	1	2	46	41	35	-	-				
	Wick	119	1018.5	-26	SSW	3	c	48	65	8	5	7	-	2.3	9	3000	1013.6	-22	SW	5	bc	47	85	7	5	7	-	2.3	4.6	1600	1	2	48	44	43	Tr	-
16	Sumburgh	30	1016.5	-26	SW	6	o	49	85	7	5	-	10	10	2000	1009.3	-40	SW	6	ido	49	85	6	5	-	10	10	900	1	6	50	47	45	1	1		
17	Blackrod Point	18	1026.8	-6	SSW	6	bcq	52	85	7	4	-	4.6	4.6	2500	1026.0	-	SSW	6	ido	52																

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

Main table with columns for Observations at 13h. G.M.T. 21st December, Observations at 18h. G.M.T. 21st December, and Past 24 Hours. Includes station names, barometric pressure, wind, temperature, humidity, and cloud details.

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

Explanatory table with four columns: COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER; COLUMNS 9, 23.—FORM OF LOW CLOUD; COLUMNS 10, 24.—FORM OF MEDIUM CLOUD; COLUMNS 11, 25.—FORM OF CIRRUS CLOUD. Includes detailed descriptions of weather symbols and cloud forms.

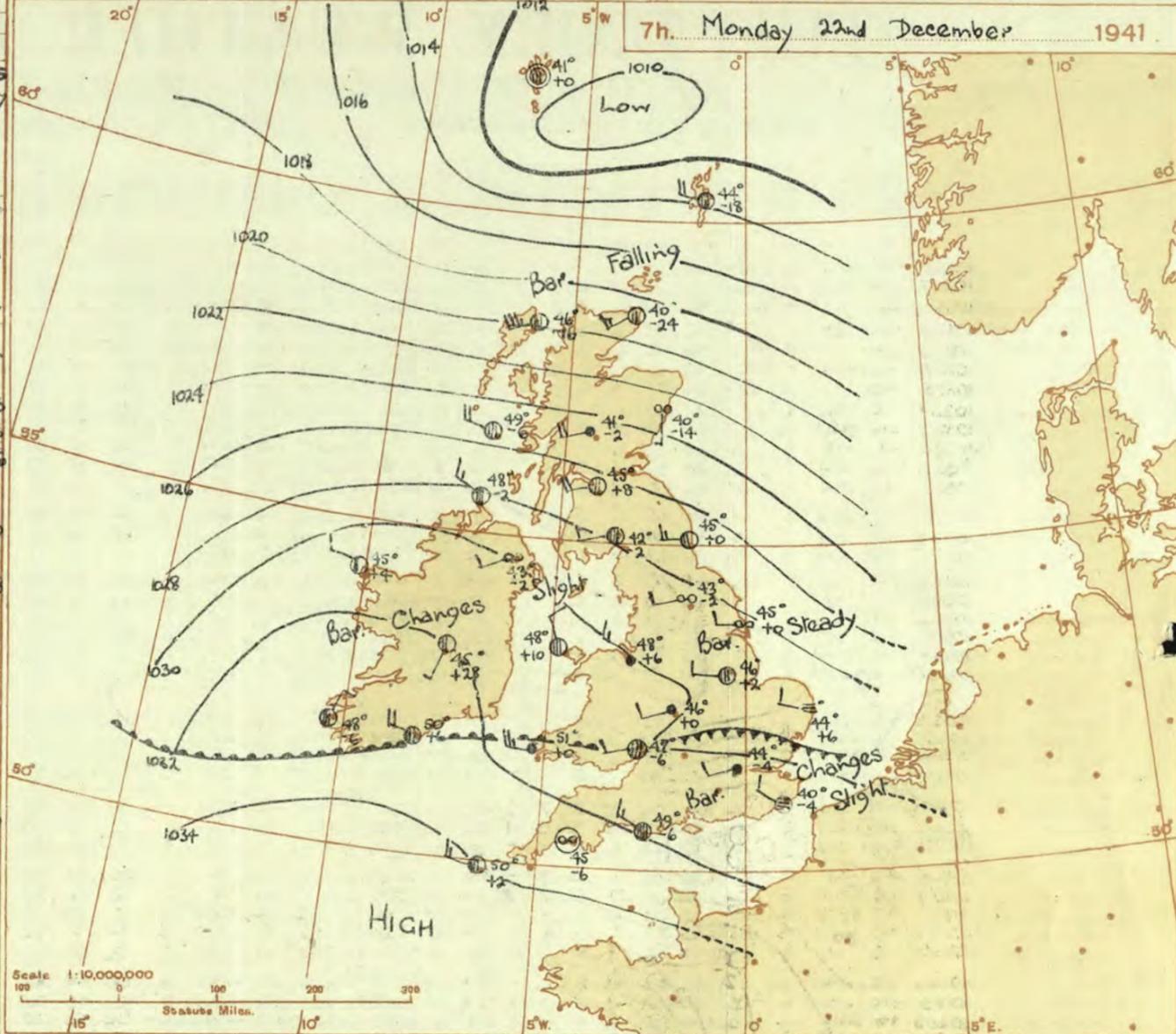
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 21st December			18h. G.M.T.			01h. G.M.T. 22nd December			07h. G.M.T.			
III	wwVhN	DDFWN	C ₁	wwVhN	DDFWN	C ₁	wwVhN	DDFWN	C ₁	wwVhN	DDFWN	
109	5-	61647	36867	8-	25665	59785	80	01744	24524	3-	38645	25685
115	52	81735	91888	52	81844	91786	54	81844	91695	52	81844	89687
203												
206	86	10858	55564	80	01854	22284	50	01964	20414	50	00361	55411
210				46	01853	54424	50	00862	21412	50	00871	20401
220	50	61085	23315							52	03545	24528
230	5	25745	20485	83	91855	26285	57	02856	24217	5-	07858	54418
245	5	01943	53424	57	02842	23317	54	00252	18263	50	01863	23103
260	5-	51748	53658	50	05651	22451	51	05657	20318	50	05661	21311
278	52	61834	22468	5-	21747	24257	50	01854	24315	50	21854	25354
279	5-	32648	53458	5-	05644	20358	50	05652	22302	5-	01764	21314
285										50	01744	28414
288	53	02854	20325	57	02854	26327	50	05663	18213	5-	02867	17117
575	62	52636	20458	5-	02748	26258	50	02753	24215	50	01753	27353
801	52	02755	21428	5-	62648	20468	02	51428	24358	5-	05658	24258
321	57	05673	18325	51	05555	19327	5-	05548	21368	5-	05656	23226
299				50	08456	23316	5-	05644	00624	50	01754	22214
292	17	08461	17215	5-	02886	22426	5-	01754	20114	50	00751	20111
310										--	56103	20343
614	5			57	05554	20225	5-	52448	22258	5-	43348	26168
333	5-	02867	20417	57	61874	22428	51	54645	22468	52	05645	22358
334										--	02645	20316
340	5-	02868	20328	5-	02763	22328	5-	61758	22268	5-	51648	20158
136	5-	08458	22128	50	43364	20244	02	57343	24348	--	48369	24259
336												
350	5-	51447	20247	03	47907	18354	5-	45268	20348	5-	05247	20268
368	5-	21756	20157	5-	05658	00028	5-	05655	26228	5-	51647	23358
379	5-	43328	18258	50	08443	20243	5-	41568	20348	5-	21668	22258
390	--	41003	22149	50	43164	20244	5-	43268	00048			
362	5-	51537	22217	53	45334	22244	5-	05567	22227	5-	53558	24228
438	50	01764	32314							8-	02755	24325
430				53	47365	00048	5-	08468	24148	5-	21667	24358
409	5-	02867	16168	5-	05662	22177	5-	05668	18228	52	05636	23358

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
G, C₁ - 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 22nd Dec. 1941.
1 S.E. England	Light westerly wind mainly dull, some light rain or drizzle; average temperature.
2 E. England ...	Light or moderate westerly wind mainly dull with occasional slight rain some fair intervals tonight but with local fog; rather low temperature.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	As 1.
6 South Wales ...	
7 North Wales ...	Moderate west or west-northwest wind; mainly fair with variable cloud, local fog near large towns at night; rather low to average temperature.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Refreshing west-northwest wind, variable cloud, occasional showers; rather low temperature.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland +	Wind west veering northwest, fresh, strong or gale at exposed places at first; rain showers at first, local snow showers later becoming cold.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland +	
16 Orkneys and Shetlands	
17 N. W. Ireland	Light or moderate west wind backing southwest later, fair at first, low cloud and rain spreading from southwest later; average temperature becoming 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 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 south and southwest of the British Isles. A small depression northwest of Shetland is moving east-southeast and a feeble trough of low pressure over Southern England is moving slowly south. Weather will be mainly dull with occasional rain or drizzle in the South. Elsewhere there will be fair periods but with some showers especially in the North.

FURTHER OUTLOOK.

Mainly cloudy and mild; much fog in the South, occasional rain in the North. Warning of southwest gale issued for districts 13, 15, & 16 at 0740 22/12/41.

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.)

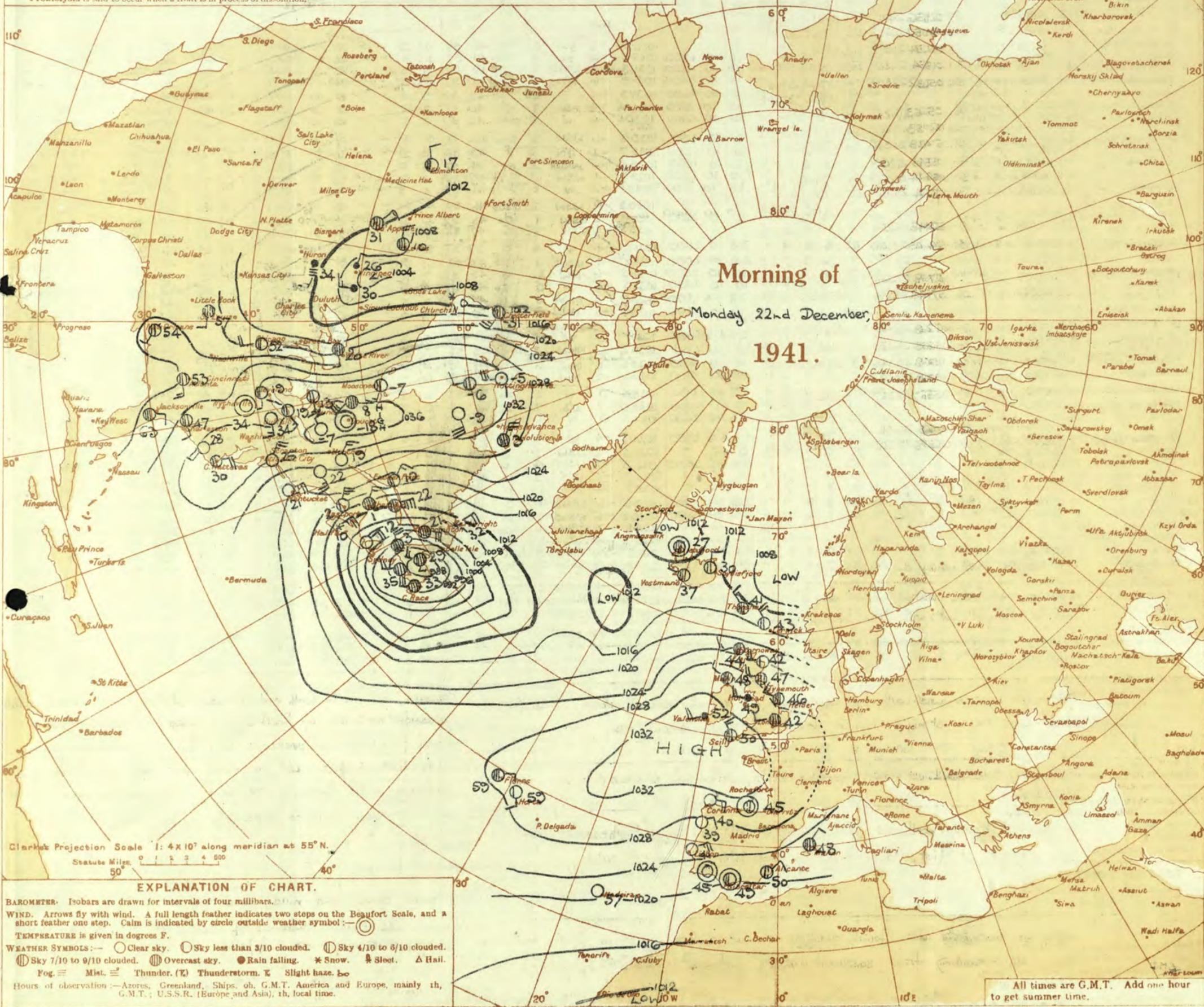
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows by 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 5/10 clouded.

○ Sky 7/10 to 9/10 clouded. ○ Overcast sky. ● Rain falling. * Snow. † Sleet. △ Hail.

☁ Fog. ☁ Mist. ☁ Thunder. ☁ Thunderstorm. ☁ Slight haze. ☁

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

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

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

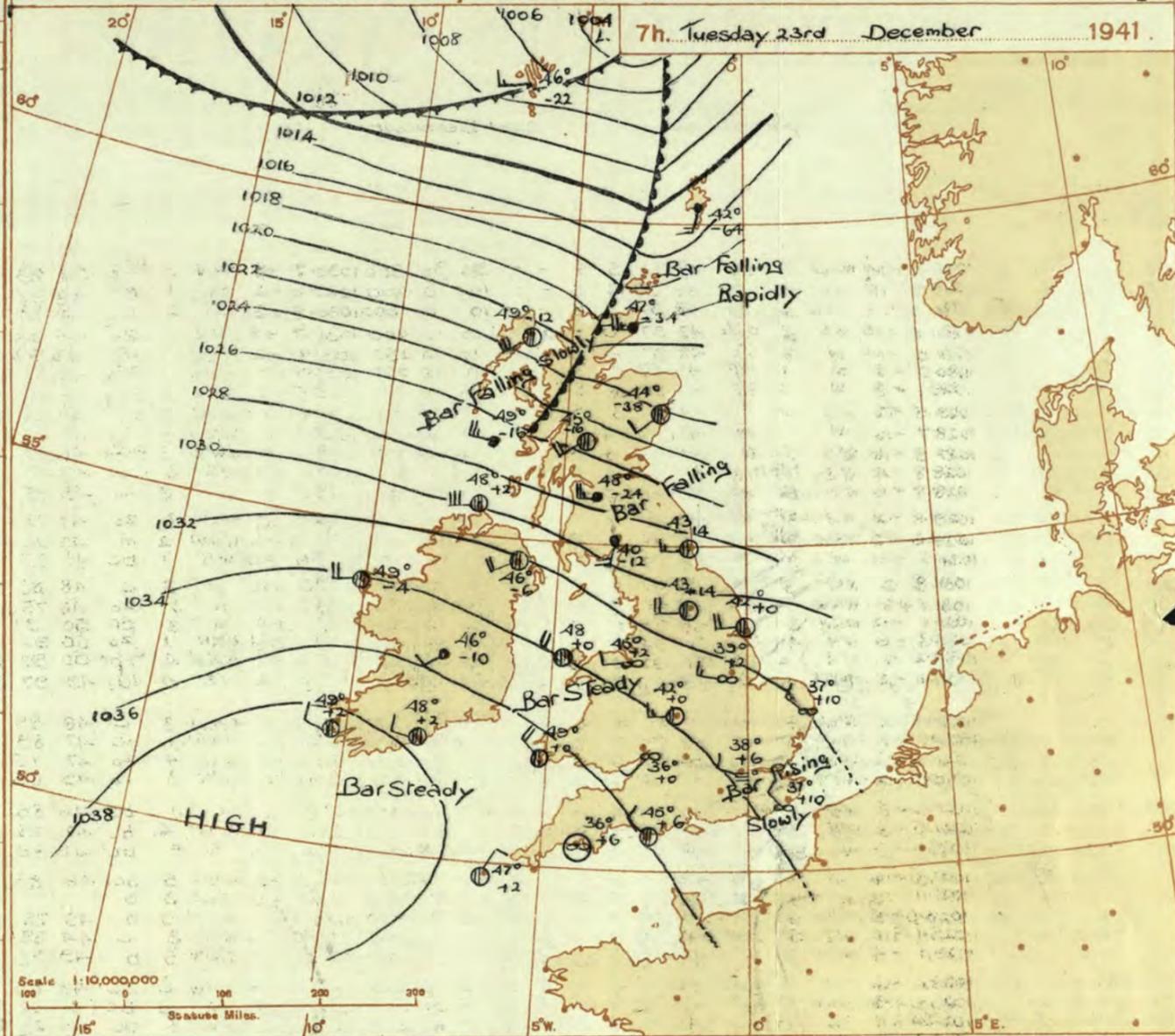
OBSERVATIONS at 1 hr. G.M.T. 22nd December														OBSERVATIONS at 7 hr. G.M.T. 22nd December														PAST 24 HOURS.										
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.			State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SON-RHINE (36)						
					Dirac.	Force.					Form.	Amount.	Height of Base. (feet) (14)			Dirac.	Force.					Form.	Amount.	Height of Base. (feet) (28)			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)							
1	London (Kew)	18	*	*	*	*	41	*	*	*	*	*	1030.8	-2	SW	2	o	43	97	4	5	-	-	10	10	2500	1	*	41	38	26	Tr	Tr	0.0				
	Croydon	217	1031.5	-2	WSW	2	42	97	4	5	-	-	10	10	6500	1030.4	-4	SW	2	ido	44	97	5	5	-	-	10	10	2000	1	*	47	36	33	-	Tr	Tr	2.4
	S. Farnborough	226	1032.0	-4	WSW	1	41	97	3	5	-	-	10	10	4500	1031.3	-2	WSW	1	bc	43	97	5	5	-	-	10	10	3000	1	*	44	39	29	-	Tr	Tr	0.0
	Boscombe Down	417	1032.7	-2	WSW	0	40	97	4	5	-	-	10	10	3500	1031.9	-6	WSW	1	bc	43	97	5	5	-	-	4.6	4.6	3000	1	*	43	34	30	Tr	Tr	0.0	
	Thorney Island	10	1032.6	-2	WSW	2	43	97	4	5	-	-	10	10	4600	1031.9	-4	WSW	0	z	43	97	5	5	-	-	10	10	3000	1	*	45	40	37	-	-	-	0.0
2	Lymington	346	1031.8	-6	WSW	1	39	92	5	5	-	-	10	10	3500	1030.8	-4	WSW	0	cf	40	97	3	5	-	-	9	9	3800	1	\$2	44	35	34	-	0.3	3.2	
	Manston	154	1031.5	-2	WSW	2	41	92	4	5	-	-	10	10	4200	1030.3	-6	WSW	2	cf	42	97	2	5	-	-	10	10	3000	1	*	40	37	34	-	0.2	0.8	
	Shoeburyness	11	1031.1	-6	SSW	2	42	92	2	-	-	-	10	10	1500	1030.3	-6	WSW	3	ido	44	92	4	5	-	-	10	10	1100	1	*	41	40	31	-	Tr	Tr	0.0
	Felixstowe	15	1030.7	-4	W	3	40	92	2	5	-	-	10	10	5200	1029.7	-2	WSW	3	f	43	97	3	5	-	-	10	10	1500	1	2	43	37	32	-	0.1	4.5	
	Gorleston	5	1029.5	-4	WNW	3	41	92	6	5	-	-	10	10	1500	1029.6	+6	WNW	2	m	44	97	4	5	-	-	10	10	1500	1	2	43	38	32	-	Tr	Tr	0.0
3	Mildenhall	19	1030.3	-4	WSW	3	43	97	4	5	-	-	10	10	2500	1029.6	-4	WSW	3	m	45	97	4	5	-	-	10	10	1900	1	*	44	35	32	-	Tr	Tr	0.0
	Cranwell	240	1029.0	-2	W	3	45	92	4	5	-	-	10	10	1500	1029.1	+2	W	2	m	46	97	4	5	-	-	10	10	1800	1	*	46	43	40	-	0.1	1.1	
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	1030.3	0	WSW	2	d	46	97	4	5	-	-	10	10	450	1	*	46	43	*	-	0.5	*				
	Upper Heyford	408	1031.1	-6	SW	1	40	97	4	5	-	-	10	10	3100	1030.3	-2	SSW	1	ido	43	97	4	5	-	-	10	10	1700	1	*	45	37	33	-	0.4	*	
	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	1030.3	-6	WSW	2	c	47	85	6	5	-	-	9+	9+	2500	1	*	47	44	36	Tr	0.1	0.2				
4	Hartland Point	299	1032.4	-2	WNW	3	50	85	8	5	2	-	7.8	10	2500	1031.6	-4	W	4	c	50	97	8	5	2	-	7.8	10	2500	1	4	48	46	45	1	Tr	Tr	0.1
	Bristol	209	1032.0	-4	NNW	2	47	92	6	5	-	-	4.6	10	2000	1031.2	-4	WSW	1	e	48	92	6	5	-	-	9	9	2000	1	*	46	41	38	-	Tr	Tr	0.0
	Portland Bill	32	1032.3	-4	WNW	3	48	92	7	5	-	-	10	10	2500	1031.5	-6	NW	3	o	49	92	7	5	-	-	10	10	2500	1	3	48	46	*	-	-	0.0	
	Plymouth	82	1033.9	-2	-	0	44	97	4	5	-	-	10	10	2500	1033.3	-6	-	0	45	97	8	5	-	-	10	10	2000	1	1	48	43	40	-	1	0.0		
	The Lizard	240	1034.3	0	-	0	47	85	7	5	2	-	7.8	7.8	1500	1033.7	-4	WNW	3	o	49	97	7	5	-	-	10	10	1500	0	*	49	43	*	-	-	0.0	
5	Scilly (St. Mary's)	163	1034.1	+2	NW	3	50	85	7	5	-	-	10	10	1500	1033.8	+2	NNW	3	c	50	92	7	5	-	-	10	10	1500	1	*	50	47	*	-	-	0.0	
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	1030.3	0	WSW	2	d	46	97	4	5	-	-	10	10	450	1	*	46	43	*	-	0.5	*				
	Pembroke	142	1031.9	-2	WN	4	51	97	7	2	1	-	2.3	4.6	4000	1031.1	0	W	5	dd	51	97	5	8	-	-	10	10	1500	1	3	51	47	*	-	0.4	0.7	
	Holyhead (Valley)	26	1029.4	-4	WSW	4	49	97	6	5	-	-	10	10	600	1030.5	+10	NNW	2	ed	48	97	7	8	1	-	9	9+	1200	1	2	50	48	47	0.1	3	*	
	Chester (Sealand)	16	1029.0	-6	NW	1	49	92	7	5	-	-	10	10	1600	1029.6	+6	NW	3	ro	48	97	5	5	-	-	10	10	1500	1	*	51	48	45	-	2	0.0	
6	Manchester	235	1029.3	-2	WS	3	46	97	6	5	2	-	9+	10	1000	1029.6	+2	NW	1	ido	47	97	6	-	-	4.6	10	600	1	*	47	46	45	0.1	1	*		
	Spurn Head	29	1028.3	-2	W	3	46	92	5	2	-	-	7.8	10	1500	1028.4	0	W	2	z	45	92	6	5	-	-	4.6	4.6	1500	1	2	45	42	*	-	-	0.0	
	Catterick	175	1028.0	0	SSW	1	48	85	7	5	4	-	Tr	1	3500	1028.0	-2	W's	2	z	43	92	6	5	-	-	Tr	Tr	2500	0	*	51	42	31	-	-	2.6	
	Tynemouth	108	1026.9	+4	W	4	47	85	7	2	-	-	7.8	7.8	2500	1027.3	0	W	2	bc	45	92	7	2	-	-	2.3	2.3	2500	1	3	51	44	38	-	-	*	
	St. Abbs Head	280	1024.5	0	W	3	47	75	8	4	4	-	4.6	4.6	2500	1024.2	-4	W	4	b	45	75	8	4	-	-	Tr	Tr	2500	0	3	51	43	*	-	-	*	
7	Leuchars	36	1025.0	+6	SW	2	40	92	8	-	4	6	0	4.6	-	1024.3	-8	WSW	3	b	37	92	9	-	-	0	0	-	1	*	51	36	28	-	-	0.3		
	Renfrew (Abbots I.)	19	1026.8	+6	W	3	45	85	6	5	-	-	4.6	4.6	3500	1026.3	+8	WSW	4	c	45	92	7	5	-	-	7.8	7.8	3500	1	*	50	44	35	2	Tr	Tr	2.6
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	1026.7	-2	W's	2	c	42	85	8	5	-	-	9	9	1500	1	*	47	41	40	2	-	-	0.0			
	Point of Ayre	30	1028.5	0	NW	2	46	97	8	-	7	-	0	4.6	-	1029.2	+4	NW	4	b	47	92	8	4	-	-	1	1	2500	1	3	50	44	*	-	-	0.4	
	Tiree	22	1026.1	0	NW	3	46	85	8	8	-	-	2.3	2.3	2800	1025.6	-6	NNW	4	c	49	85	7	5	-	-	7.8	7.8	2100	0	4	51	46	*	0.1	1	1.3	
8	Stornoway	80	1023.7	0	SW	3	44	92	7	5	7	-	4.6	9+	2500	1020.2	-16	WSW	7	c	46	97	7	5	7	-	-	7.8	10	2000	1	3	51	44	*	0.2	1	0.5
	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	1024.8	-2	WSW	4	ido	41	75	8	8	-	-	4.6	4.6	2500	1	*	48	38	32	0.6	0.1	0.0				
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	1022.3	-14	WSW	3	z	40	75	5	5	-	-	Tr	Tr	3200	1	2	52	38	30	-	-	-	0.4			
	Wick	119	1021.8	+4	WSW	3	39	85	7	5	-	-	7.8	7.8	3500	1018.6	-24	WSW	3	bc	40	85	7	5	-	-	2.3	2.3	3500	1	*	51	39	35	Tr	Tr	0.0	
	Sumburgh	30	1016.5	+6	NW	4	46	85	7	8	-	-	9+	9+	1200	1014.8	-18	NNW	4	bc	44	87	7	8	-	-	4.6	4.6	1200	1	*	50	44	40	1	Tr	Tr	0.0
9																																						

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. Monday 22nd				18h. G.M.T.				01h. G.M.T. Tuesday 23rd				07h. G.M.T.			
III	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN
1093		25645	62785	3	81745	63585	51	03761	20288	6	64638	58668			
11587		81834	93687	54	51844	93685					67309	20669			
203															
2065		81854	24484	8	81854	24384	51	61863	26264	5	61855	55668			
21086		25954	07585	83	02854	26325	07	01990	20484	5	02866	55566			
22083		10954	26415	83	01845	26215	83	01754	27114	5	58328	24488			
2305		02744	57557	86	01852	29383	5	01864	23314	5	51648	53658			
24554		01943	24414	00	00990	61401	50	01863	26104	5	22647	00067			
26053		02753	23527	04	00990	26322	50	05663	24304	52	61647	55558			
27853		02846	25527	50	01861	27523	50	00853	24303	57	21846	57458			
27983		81845	55427	50	00752	24383	40	01763	23213	57	02785	22328			
28523		02744	26627	20	01743	30413				20	01744	28514			
2885		02857	22217				00	05090	24110	50	01874	22114			
575		02854	26228	57	21755	28356	57	02854	28317	5	52648	26358			
8016		02757	26327				00	00790	24300	5	05655	26318			
3253		05663	25426				00	05690	24220						
29050		01753	24803				00	00790	28200						
29247		02964	24416	50	01861	23424	00	00890	25100	54	01764	20204			
310		03628	24328		02648	24318					46109	24349			
614		05657	24247	57	22127	30146	5	05661	26201	5	08456	20117			
3385		50857	22227	8	02856	26216	5	01852	28312						
334		02654	24215								02646	22217			
3405		02747	28317	-3	00790	26212				00	05663	26113			
1365		13338	23348	03	08490	23345	00	05690	28300						
33657		02754	28418	57	02753	32316				57	02753	32316			
3508		05656	22258	53	05653	26225				5	05535	20215			
30886		02854	29326	54	02656	26117	50	00651	26201	50	01663	26203			
37957		02755	28227	57	05644	26225	00	05690	28310	50	05642	28314			
3905		45347	23257		41490	027243	00	05590	26200	07	08490	26228			
3825		05647	22227	01	05690	029325									
4385		02647	26327							50	01663	30313			
430							00	04690	00040						
4005		51408	25338	52	02637	32368	50	00753	02213	5	02768	30318			

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_M - 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 23rd December 1941.
1 S.E. England	Light or moderate northwest wind; fair at first, cloud increasing with slight rain later; rather mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light northwest wind; fair, rather mild.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Moderate northwest wind, fresh at exposed places; cloudy, rain at times; rather mild.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Fresh northwest wind, strong at exposed places; cloudy, rain at times, rather mild.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	Wind northwest fresh or strong, veering north, gale on coasts; cloudy, occasional rain at first, wintry showers later especially in the North; rather mild at first, becoming cold.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 7-10.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	As 4-6.

BAROMETER. Isobars are drawn for intervals of two millibars. WIND, WEATHER SYMBOLS. For explanation see opposite page. SKA 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 almost stationary to southwest of the British Isles. A deepening depression just northeast of the Faeroes will move southeast. Weather will be fair in the Southwest. Rain will spread southeast from Scotland to North and East England though rainfall will be only slight in the Southeast. Some snow is probable later in the North of Scotland.

FURTHER OUTLOOK.

Rather cold with wintry showers in the North and Northeast. Cloudy and rather mild elsewhere. Warming of southwest to west gale issued at 0245 G.M.T. on 23/12/41 for districts 11, 13B, 15 & 16.

Forecasts issued at 10.30h.

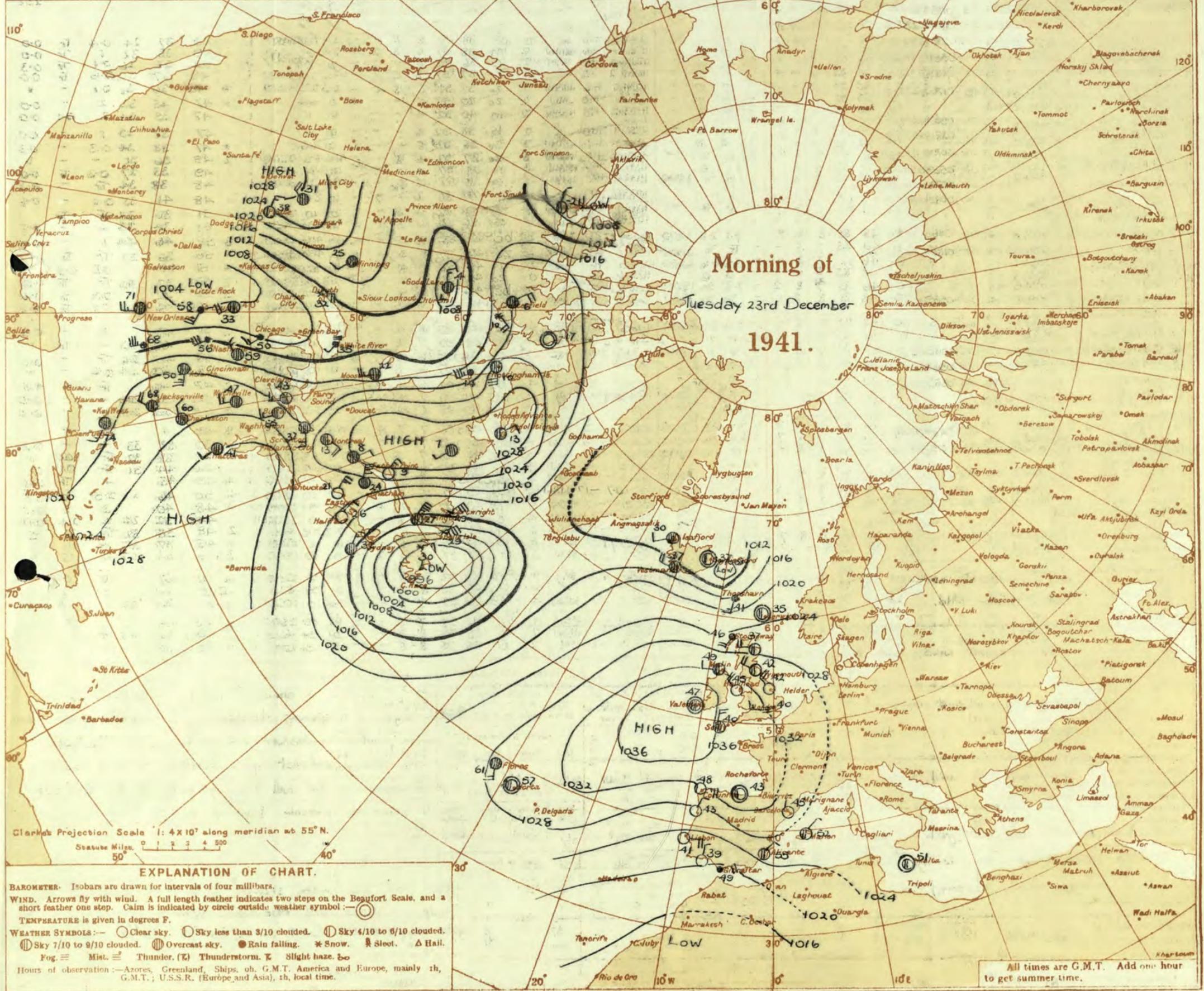
N. K. JOHNSON, D.Sc., A.R.C.S.
Director.

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.



Clark's Projection Scale 1:4x10⁷ along meridian at 55° N.
 Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol:—
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS:— ○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◒ Sky 7/10 to 9/10 clouded. ◓ Overcast sky. ☔ Rain falling. ❄ Snow. ⚡ Sleet. ⚡ Hail. ☁ Fog. ☁ Mist. ⚡ Thunder. ⚡ Thunderstorm. ☁ Slight haze. ☁
 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.

DISTRICT.	STATIONS.	OBSERVATIONS at 1 hr. G.M.T. 23rd December.														OBSERVATIONS at 7 hr. G.M.T. 23rd December.														PAST 24 HOURS.					
		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. (15)	Change in 3 hours.	Wind.		Temp. °F.	Humid. %.	Visibility.	Cloud.					State of ground.	TEMPERATURE.			RAINFALL.		SUNSHINE Hr.		
					Dir.	Force.				Form.	Amount.	Height of Base (feet).	Form.	Amount.			Height of Base (feet).	Form.				Amount.	Height of Base (feet).	0-9	Max. Day 7h-15h °F.	Min. Night 15h-7h °F.		Min. on Grass °F.	Day 7h-15h mm.	Night 15h-7h mm.					
1	London (Kew) ... 18	1031.7	+6	W	3	37	92	4	-	-	-	-	-	1034.1	+8	W	2	cf	38	97	3	5	-	-	9+	9+	2500	1	49	37	24	0.4	Tr	0.0	
	Croydon ... 217	1031.5	+6	W	2	38	92	4	-	-	-	-	-	1033.4	+6	W	2	m	38	97	4	5	-	-	2-3	3+	4000	1	49	38	32	1	Tr	0.0	
	S. Farnborough ... 226	1033.5	+10	W	2	38	92	4	-	-	-	-	-	1035.4	+10	W	2	c	36	92	5	5	-	-	0	9+	-	3	49	34	26	0.1	Tr	0.3	
	Boscombe Down ... 417	1033.5	+10	WNW	2	38	85	6	-	-	-	-	-	1035.2	-2	-	0	F	37	97	3	5	-	-	4.6	7.8	3000	1	48	37	31	0.6	Tr	0.0	
	Thorney Island ... 10	1033.1	+8	W	3	40	92	7	-	-	-	-	-	1034.5	+6	WNW	3	z	37	92	6	5	-	-	2.3	2.3	4000	1	49	36	31	0.1	-	*	
	Lymington ... 346	1031.5	+8	NW	3	39	92	5	-	-	-	-	-	1031.5	+10	NW	2	z	37	97	5	5	-	-	8	0	4.6	1	47	45	32	2	-	0.0	
	Manston ... 154	1031.4	+8	NW	3	40	92	4	-	-	-	-	-	1033.0	+8	WNW	2	m	40	92	4	-	-	-	0	1	-	1	47	39	34	2	0.1	0.0	
2	Shoeburyness ... 11	1031.5	+8	N'S	2	40	85	4	-	-	-	-	-	1033.1	+10	W	2	b	38	92	5	-	-	-	0	0	-	1	47	38	29	1	-	0.0	
	Felixstowe ... 15	1031.0	+4	NW	4	42	92	4	-	-	-	-	-	1032.9	+10	WNW	3	z	38	92	5	-	-	-	6	0	4.6	1	47	38	34	0.3	-	*	
	Gorleston ... 5	1030.4	+18	NW	2	41	97	6	-	-	-	-	-	1031.7	+10	WNW	3	z	37	92	6	5	-	-	4.6	4.6	2500	1	49	36	31	-	-	0.3	
	Mildenhall ... 19	1031.2	+10	WN	3	37	97	5	-	-	-	-	-	1032.9	+6	WSW	3	m	35	97	4	-	-	-	0	1	-	1	49	33	27	0.3	Tr	0.0	
	Cranwell ... 240	1031.3	+4	WNW	2	40	92	5	-	-	-	-	-	1032.1	+2	N'N	3	z	39	92	5	5	-	-	9	9	3000	1	48	38	34	Tr	-	0.3	
3	Birmingham ... 535	1032.4	+4	W	2	38	92	5	-	-	-	-	-	1033.6	0	W	3	bc	42	85	6	-	-	-	0	2.3	-	1	48	41	35	0.1	-	0.4	
	Upper Heyford ... 408	1032.4	+4	W	2	38	92	5	-	-	-	-	-	1034.1	+2	WSW	2	z	39	92	6	5	-	-	10	10	2000	1	51	36	33	Tr	-	*	
4	Ross-on-Wye ... 223	1032.4	+4	W	2	38	92	5	-	-	-	-	-	1034.5	0	WSW	1	z	36	92	6	5	-	-	6	Tr	9+	3000	1	61	34	29	-	-	0.7
5	Hartland Point ... 299	1034.8	+4	N	3	48	85	8	-	-	-	-	-	1035.7	0	NW	2	bc	48	85	8	5	-	-	4.6	4.6	2500	1	51	46	44	1	-	0.0	
	Bristol ... 209	1034.4	+6	WNW	2	40	85	7	-	-	-	-	-	1035.7	+6	NW	2	z	40	97	5	5	-	-	1	4.6	3000	1	50	36	27	Tr	Tr	0.0	
	Portland Bill ... 32	1034.1	+2	N	2	46	92	7	-	-	-	-	-	1034.9	+6	NW	2	c	45	92	7	4	-	-	10	10	2500	1	4	51	44	*	0.2	0.3	
	Plymouth ... 82	1035.4	+8	NE	1	42	85	5	-	-	-	-	-	1036.6	+6	-	0	z	42	97	5	4	-	-	7.8	7.8	3000	1	2	52	32	30	Tr	Tr	0.0
	The Lizard ... 240	1035.9	+6	NNE	2	46	85	7	-	-	-	-	-	1036.8	+4	N	2	bc	44	75	8	4	-	-	2.3	2.3	2500	0	3	51	42	0.2	Tr	0.4	
	Scilly (St. Mary's) ... 163	1036.0	+6	NE	3	48	75	8	-	-	-	-	-	1036.9	-2	NE'N	2	bc	47	85	8	5	-	-	4.6	4.6	1500	1	3	53	45	*	0.1	Tr	0.2
	Guernsey ... 175	1036.0	+6	NE	3	48	75	8	-	-	-	-	-	1036.9	-2	NE'N	2	bc	47	85	8	5	-	-	4.6	4.6	1500	1	3	53	45	*	0.1	Tr	0.2
6	Pembroke ... 142	1035.3	+4	NW'N	3	48	92	8	-	-	-	-	-	1036.1	0	NW	4	bc	48	85	8	2	-	-	4.6	4.6	4000	1	3	51	43	*	1	-	0.3
7	Holyhead (Valley) ... 26	1033.5	+6	NW	4	45	97	7	-	-	-	-	-	1033.8	0	WNW	4	bc	48	92	7	5	-	-	10	10	2200	1	3	49	42	33	Tr	Tr	*
	Chester (Sealand) ... 16	1033.1	+2	N'N	2	45	92	6	-	-	-	-	-	1033.3	+2	N	2	z	45	85	6	5	-	-	2.3	10	3000	1	*	48	44	34	Tr	-	0.1
8	Manchester ... 235	1032.5	+6	WNW	3	42	97	7	-	-	-	-	-	1032.9	-2	N	0	c	42	97	6	5	-	-	10	10	3000	1	*	48	39	34	0.2	-	0.1
10	Spurn Head ... 29	1029.9	+16	NW'W	4	42	92	6	-	-	-	-	-	1030.7	0	W	4	bc	42	92	6	1	-	-	2.3	4.6	4000	0	2	47	40	*	Tr	-	4.1
	Catterick ... 175	1031.4	+4	N'N	3	41	85	7	-	-	-	-	-	1029.9	-4	W	4	bc	43	85	7	5	-	-	2.3	4.6	4000	1	*	50	38	30	-	-	2.0
	Tynemouth ... 108	1029.9	+10	WNW	3	42	85	6	-	-	-	-	-	1028.0	+4	W	3	bc	43	85	6	8	-	-	2.3	2.3	2500	1	3	49	38	35	-	-	0.0
11	St. Abbs Head ... 280	1023.3	+12	WNW	4	43	85	7	-	-	-	-	-	1024.8	-32	WNW	4	c	46	85	7	5	-	-	7.8	9+	2500	*	3	49	*	*	*	*	
	Leuchars ... 36	1028.7	+6	W	1	40	75	8	-	-	-	-	-	1022.9	-42	WSW	3	bc	44	85	7	5	-	-	4.6	4.6	1000	1	*	50	37	33	Tr	Tr	0.3
12	Reafrew (Abbots L.) ... 19	1030.7	+6	-	0	39	92	6	-	-	-	-	-	1026.3	-24	W	5	bc	48	85	7	5	-	-	7.8	7.8	3500	1	*	49	38	32	Tr	Tr	0.1
	Eskdalemuir ... 794	1032.5	+6	W	1	47	85	8	-	-	-	-	-	1028.5	-12	SW	3	bc	48	97	8	2	-	-	10	10	220	1	*	46	44	31	Tr	Tr	0.1
	Point of Ayre ... 30	1032.5	+6	NW'W	4	47	85	8	-	-	-	-	-	1031.3	-8	WNW	5	bc	48	92	8	6	-	-	4.6	10	1500	1	4	49	45	*	Tr	Tr	0.8
13A	Tiree ... 22	1029.2	-4	WN	3	40	92	7	-	-	-	-	-	1027.0	-16	WN	5	bc	49	92	7	5	-	-	10	10	1800	1	4	50	46	*	0.5	Tr	0.2
13B	Stornoway ... 80	1023.9	-28	SSW	4	46	97	7	-	-	-	-	-	1020.7	-12	WSW	6	bc	49	97	7	8	-	-	7.8	9+	1500	1	3	48	40	*	3	2	0.7
15	Dalwhinnie ... 1176	1024.1	-16	WSW	4	45	85	7	-	-	-	-	-	1024.1	-16	WSW	4	c	45	85	7	8	-	-	9	5	2500	1	*	44	32	24	Tr	Tr	0.4
	Aberdeen ... 79	1021.0	-38	WSW	2	44	85	6	-	-	-	-	-	1021.0	-38	WSW	2	c	44	85	6	-	-	-	7.8	7.8	1600	1	2	48	38	32	Tr	Tr	1.5
	Wick ... 119	1024.7	-8	WNW	3	39	85	7	-	-	-	-	-	1017.6	-34	W	5	bc	47	85	6	5	-	-	10	10	1500	1	*	45	37	35	4	3	*
16	Sumburgh ... 30	1023.0	-10	-	0	35	85	8	-	-	-	-	-	1015.2	-64	SSW	3	bc	42	97	7	5	-	-	9	10	1800	1	3	46	34	27	3	5	*
17	Blacksod Point ... 18	1035.2	+8	WNW	1	48	92	8	-	-	-	-	-	1034.5	-4	W	4	c/a	49	92	7	5	-	-	9+	9+	1500	1	*	47	*	Tr	0.1	0.0	
18	Mahn Head ... 84	1031.4	-6	W	2	48	92	7	-	-	-	-	-	1030.1	-6	W	6	c/a	49	85	5	9	-	-	9+	9+	800	1	5	50	44	*	0.1		

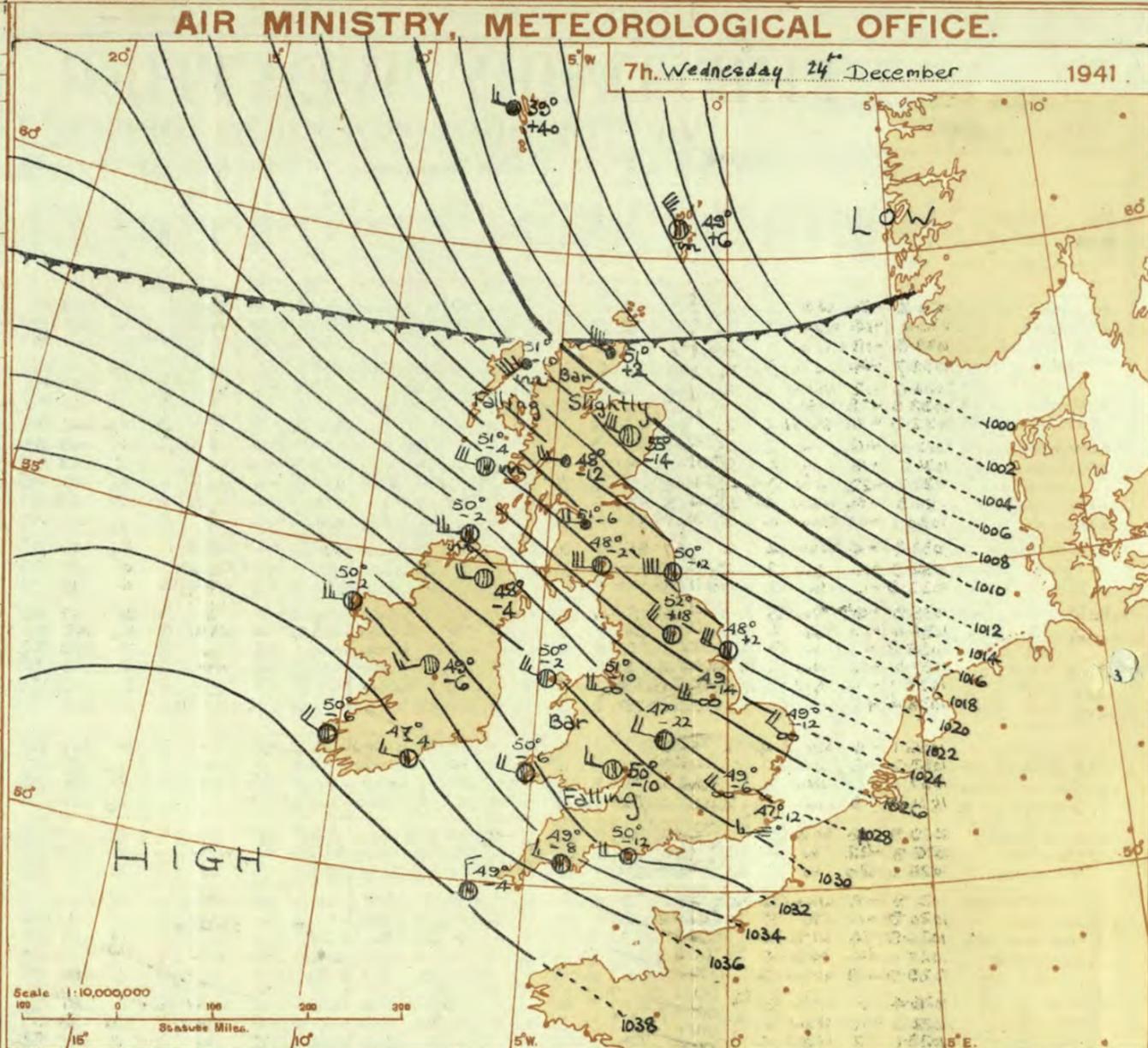
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 23rd December 13h. G.M.T.				01h. G.M.T. 24th December 07h. G.M.T.								
III	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN	C _M	wwVhN _h	DDFWN
109	87	21745	60656	5-	51544	58654	62	52535	57858	5-	21644	57854
115				--	67109	20589	52	62735	91768	52	62735	91768
203				6-	62728	28468	6-	02738	22568			
206	94	02955	56467	57	02955	57587	5-	02856	55626	5-	61854	61764
210	57	02955	56558	86	01854	56525	80	00843	57713	8-	02857	57787
220	31	25736	25447	5-	53438	53558				52	43435	28628
230	5-	21748	24358	5-	51737	24558	5-	51648	57658	57	02647	57658
245	54	02953	44416	57	02853	22216	57	01851	57613	5-	02867	24517
260	57	02744	22567	57	05653	24824	54	05655	55528	5-	02767	55727
278	5-	61838	25668	5-	51738	26468	57	02846	25558	57	02854	58625
279	62	52637	22558	62	52665	20458	50	02845	22225	5-	02857	55527
285				6-	59638	24668				27	05635	24728
288	5-	02847	21327	51	02786	22328				52	02755	22328
295	6-	51638	26458	62	21636	61458	5-	61648	59568	57	22744	59564
301	5-	05648	26428	57	08655	25828	52	02756	25568	5-	02758	26628
321	5-	05668	24458	5-	05647	58427	5-	05657	58467	57	05656	59528
299	51	05644	23315	50	05643	23313	50	01743	25203			
292	5-	02847	24427	5-	02858	23428	5-	02747	57427	51	01843	57524
319	--	47209	24449							--	02648	24528
315	5-	51648	24358	52	52535	67458	57	05545	24458	51	05645	57427
333	5-	02858	26318	53	01863	24515	51	02753	57516	5-	61658	26668
334	--	03747	24328							--	03647	24228
340	5-	02848	24228	5-	51748	26358	50	21658	28358			
136	04	05630	22318	6-	05648	23528	5-	05647	24427	5-	05658	57428
336	52	05644	24528	62	62536	28468				62	63646	28568
350	57	05662	21327	5-	05657	23427	5-	05638	58458			
368	74	02852	24427				52	51745	25458	57	01742	25413
379	53	02761	22315				5-	51658	25458	57	05654	59427
390							5-	05658	23328	5-	02757	24427
382	04	05630	18315	53	05655	25326	5-	05658	23328	5-	02757	24427
438	51	02573	24114				8-	02555	24425			
430							5-	05648	24448	5-	05658	26315
409	5-	02867	28327	5-	02868	29328	5-	02848	26228	5-	02845	59458

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_M - 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. Wednesday 24th December 1941



DISTRICTS.

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

1 S.E. England	
2 E. England ... ↓	Fresh west northwest wind, strong locally in the North; mainly
3 E. Midlands ...	fair but considerable cloud, slight local rain or drizzle in North;
4 W. Midlands ...	mild
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England ↓	Strong west northwest wind, gale at exposed places mainly
9 N. Midlands ...	northwest; cloudy, some rain or drizzle later mild at first;
10 N.E. England ↓	temperature falling later.
11 S.E. Scotland ↓	
12 S.W. Scotland ↓	
& Isle of Man.	
13A. W. Scotland ↓	Wind west strong to gale veering northwest and moderating later;
13B. N.W. Scotland ↓	cloudy rain or drizzle at first, showers later, snow showers on
14 Mid Scotland	mountains. Rather mild at first becoming colder.
15 N. E. Scotland ↓	
16 Orkneys and ↓	Fresh or strong squally northwest wind; wintry showers, rather cold.
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
 = 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.

The anticyclone persists to the Southwest of the British Isles, while a vigorous depression to the Northeast of Scotland is moving southeast. There will be west to northwest gales in exposed places in the North, but these will moderate later. Weather will be generally cloudy and mild with slight local drizzle, but a belt of more general rain will spread down over Scotland, North England and North Ireland, followed by brighter conditions with local showers, of a wintry nature in the extreme north and with temperature falling below normal

FURTHER OUTLOOK.

Cloudy and mild in the South; cold with some wintry showers in the North; colder conditions spreading also to south later with slight frost.
 ↓ Gale warning in operation in districts, 2, 8, 10, 11, 12, 13 (a-b), 15, 16 and 18. Issued at 0245 and 1930 on 23-12-41.

Forecasts issued at 10.30 G.M.T.

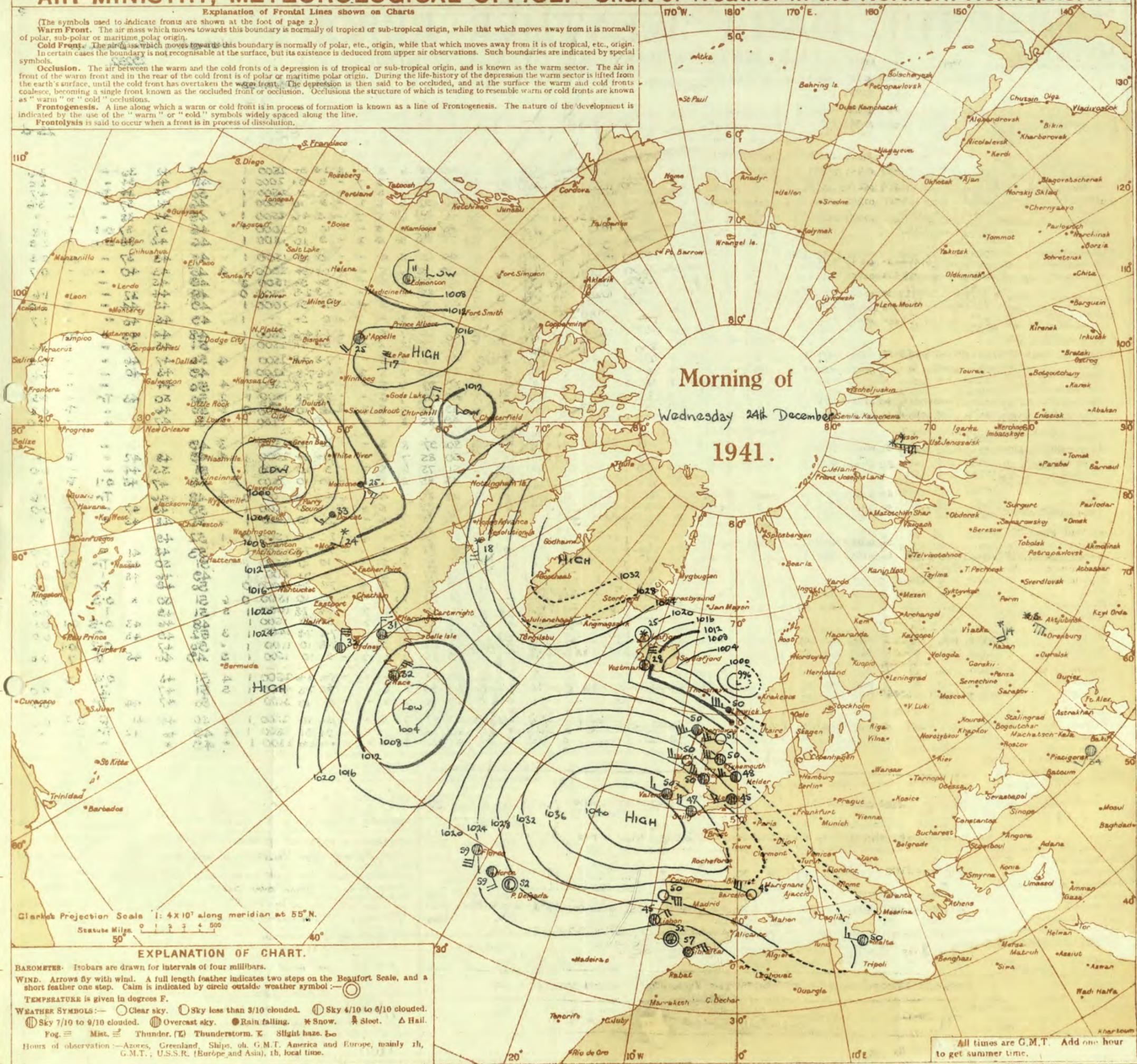
N. K. JOHNSON, D.Sc., A.R.C.S.
Director.

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.



Globe's Projection Scale: 1: 4x10⁷ along meridian at 55° N.
 Statute Miles 0 100 200 300 400 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol: ○
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: ○ Clear sky. ○ Sky less than 3/10 clouded. ○ Sky 4/10 to 6/10 clouded. ○ Sky 7/10 to 9/10 clouded. ○ Overcast sky. ● Rain falling. * Snow. ▲ Sleet. △ Hail.
 Fog ≡ Mist. ⚡ Thunder. (Z) 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.

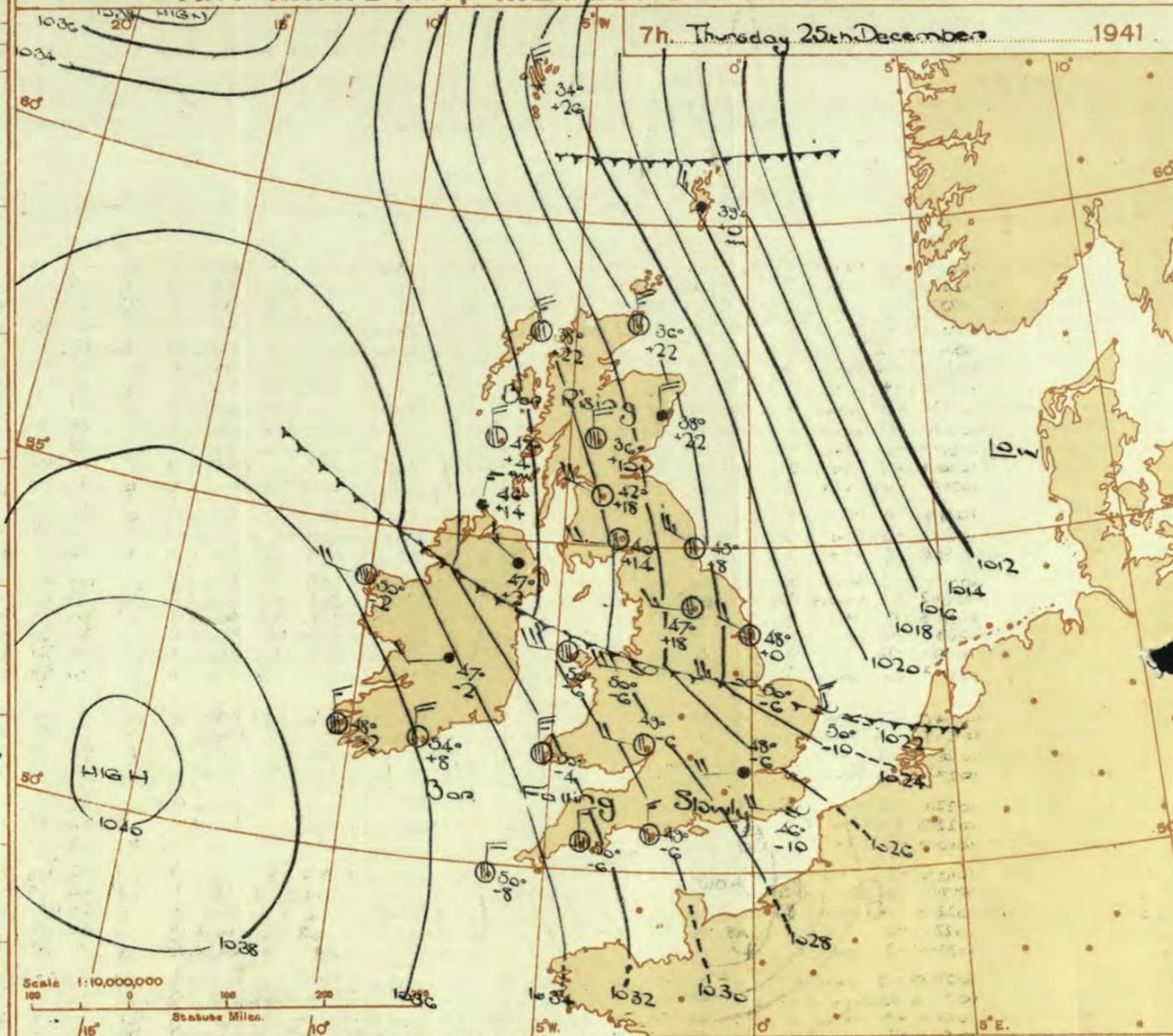
All times are G.M.T. Add one hour to get summer time.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 24th December				17h. G.M.T.				01h. G.M.T. 25th December				07h. G.M.T.				
III	C _M	wwVhN _H	DDFWN	C _M	wwVhN _H	DDFWN	C _M	wwVhN _H	DDFWN	C _M	wwVhN _H	DDFWN	C _M	wwVhN _H	DDFWN	
109	83	25744	28786	5-	02856	28626	8-	28745	28785	8-	02845	60686				
115	52	81834	51787	57	81834	28687	55	01834	95687	55	88834	97686				
203																
206	86	02853	61567	87	02854	28327	83	25854	61584	8-	81855	26285				
210	8-	25856	58786	4-	02852	59688	8-	25858	59588	8-	85848	61588				
220					51	01644	27318				50	01644	28514			
230	5-	51637	24657	5-	51638	25458	5-	02747	28357	8-	01854	32514				
245	54	02855	24417	84	01852	26414	50	01854	30314	8-	25865	26385				
260	54	02854	55626	83	01864	24416	54	01862	24313	50	00763	25213				
272	87				6-	52638	26658	5-	21748	60658	5-	02848	61558			
279	5-	51748	88588	5-	02747	24457	50	01853	25313							
285	5-	61638	26768	5-	62638	26768				20	01744	20614				
288	5-	02846	56627	57	02747	56428	50	01753	28428	50	01753	28313				
575	83	01744	60465	5-	02848	28428	5-	51748	28358	5-	51645	28358				
301					5-	51648	26628	5-	61748	58658						
321	57	05681	88525													
299					50	01744	24404				50	01744	24314			
292	57	02855	56526	50	01854	26214	5-	02858	23228	50	01853	62413				
310																
614	51	02762	22427	5-	05645	61525	5-	05657	26427	51	52655	59357				
333					54	02855	28615	5-	02858	27628	51	01844	26625			
334																
340					03	01990	26423	5-	51648	28428	5-	05648	30428			
136	00	05630	24526	5-	05647	24517										
336	62	01626	32468	57	02644	28527										
350	57	02753	24427	50	01763	57423	5-	05648	24428	5-	02748	59568				
368	5-	02867	24427	80	01853	24424	52	02645	25328	5-	02746	26326				
379	5-	02857	26527	5-	02857	24427	5-	05648	57518	5-	05648	59428				
390	50	00651	26527	5-	05666	25327	50	05554	26424	5-	22647	26367				
382	54	02845	26427													
488	57	02654	26417													
480	53	05557	22328	00	00790	24222	5-	02748	24228	5-	02758	26328				
100	5-	02845	28428	5-	02757	30457	5-	02856	59426	5-	02858	27428				

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_H - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C_M - 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. Thursday 25th December

1 S.E. England	
2 E. England ...	Moderate west or north west winds, fresh locally; fair. Mild becoming colder.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Moderate or fresh northwest winds; fair, mild.
6 South Wales ...	
7 North Wales ...	Fresh northwesterly winds. Cloudy with occasional rain at first; showers and bright intervals later. Mild becoming colder.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Moderate or fresh northwesterly winds. Fair at first. Some local wintry showers later. Average temperature becoming colder.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Fresh or strong northwest to north winds. Wintry showers and bright intervals.
15 N. E. Scotland	
16 Orkneys and Shetlands	Cold.
17 N. W. Ireland	
18 N. E. Ireland	As 7-8.
19 S. E. Ireland	
20 S. W. Ireland	As 5-6.

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.

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

The anticyclone persists to the southwest of Ireland, while another over Iceland is spreading southwards. Pressure is relatively low to the east of Scotland. In England, Wales, Ireland and Southern Scotland it will be mild at first and mainly fair though with some rain in northwestern districts. Colder conditions will spread south but are not expected to reach the extreme southwest. Local wintry showers will occur later in the North of the area. Over the remainder of Scotland it will be rather cold with occasional wintry showers.

FURTHER OUTLOOK.

Rather cold northerly winds in most areas; long clear periods with night frost in the South, wintry showers in the North. Gale warning in operation in districts 16 at 0245 on 23/12/41

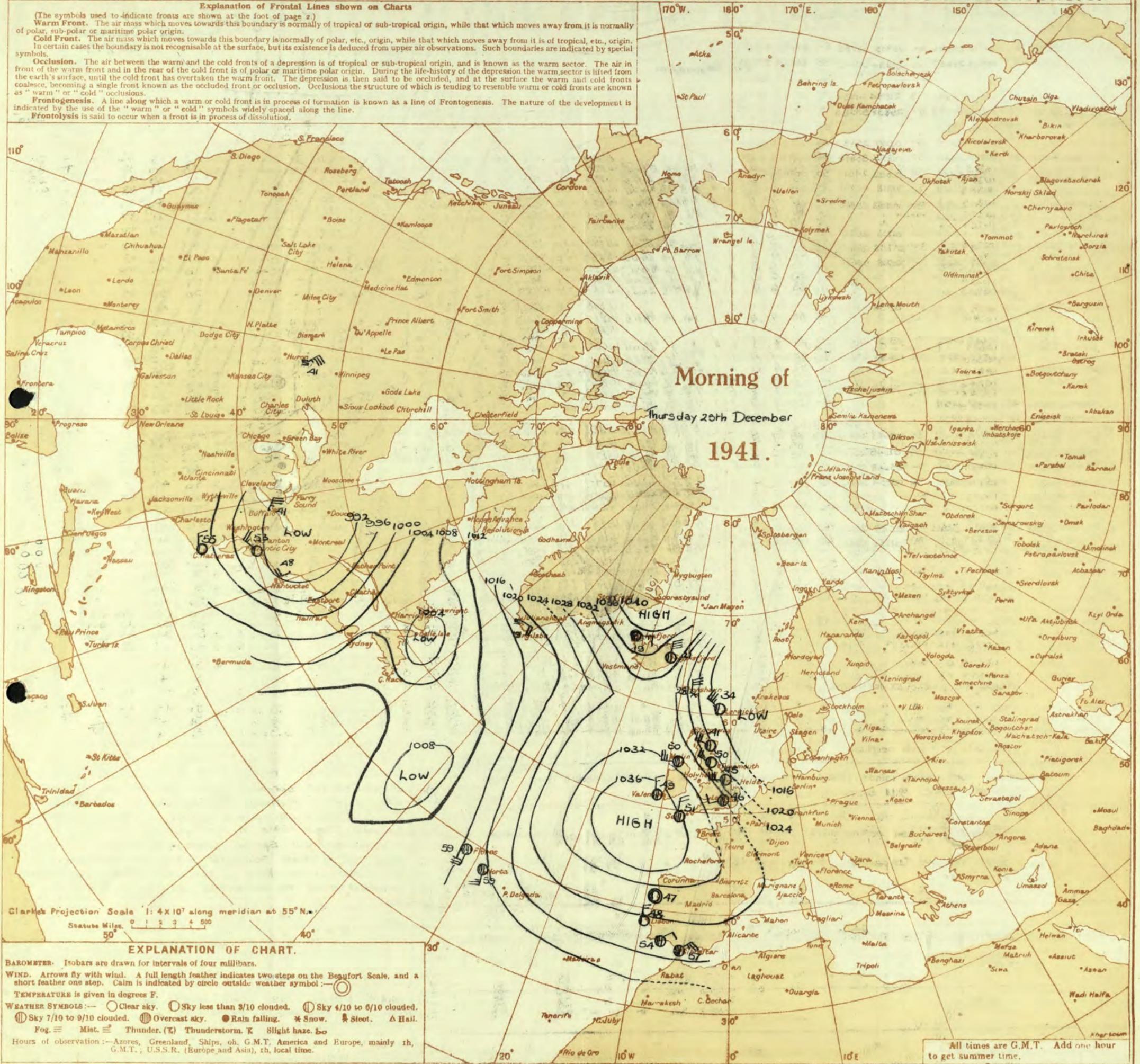
Forecasts issued at 10.30 G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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

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

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(The symbols used to indicate fronts are shown at the foot of page 2.)
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Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



EXPLANATION OF CHART.

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

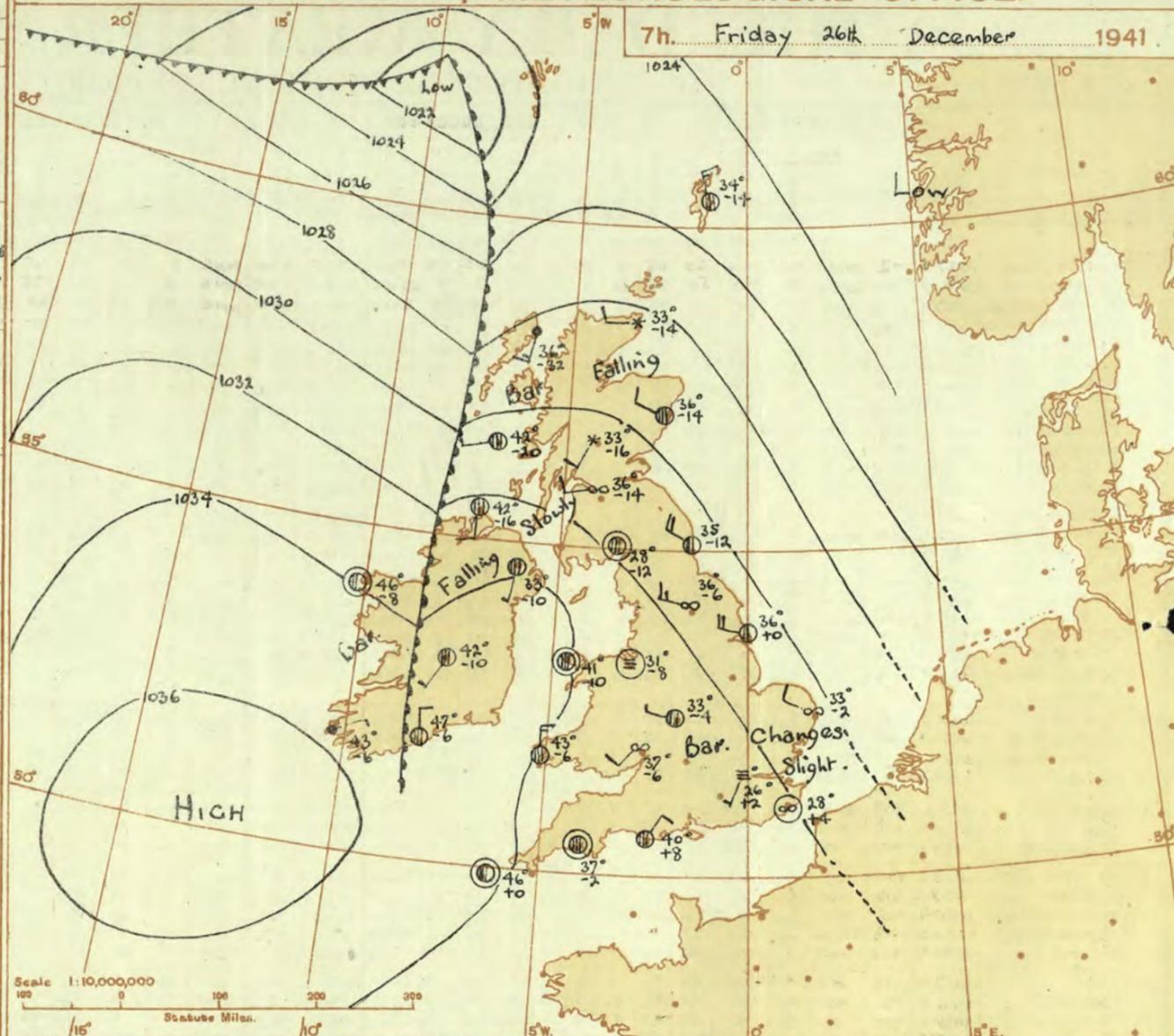
All times are G.M.T. Add one hour to get summer time.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 25th Dec. 18h. G.M.T.				01h. G.M.T. 26th Dec. 07h. G.M.T.								
III	C _w	V _w	DDFWN	C _w	V _w	DDFWN	C _w	V _w	DDFWN	C _w	V _w	DDFWN
109	8-	01854	31684	3-	01745	28545	57	02873	29427	02	72758	20328
115	87	88834	97584	37	88844	82487	52	88844	16287			
203				5-	82836	28426	5-	02035	24425	5-	64838	20358
206	84	02865	26285	53	01964	30114	53	02855	30226	5-	68758	24278
210	53	01864	58584	86	02054	27586	47	01853	23284	5-	52748	24288
220										52	51432	22328
230	5-	02965	29415	5-	02865	30115	5-	01853	00013	57	02854	23228
245	16	00961	63782	57	01801	24214	57	02863	26425	57	02866	28326
260	8-	01854	30214	00	01850	25210	5-	47367	23117	52	05552	20148
273	50	01955	29425	40	01953	29583	03	01790	22115	57	02765	24117
279	54	00862	30313	00	00700	00000	00	00700	28200	00	00700	24116
285				10	01743	32513				5-	02857	28327
288	5-	05667	01417	00	05590	00010	00	05690	00000			
275	53	02845	32157	57	01753	32284				5-	05668	12128
301	52	05652	65513	00	47300	32200	00	05590	32100	50	47353	07143
321	87	02854	64585	04	05690	28221	00	41430	27240	57	05564	27228
299				50	02745	32615	00	00700	25200	50	05644	28214
292				00	05690	22110	00	00700	27200	07	02700	00023
310												
314	26	05665	65526	00	05690	32114	00	05690	28110	57	05565	26118
333	52	51635	63468	2-	25866	30386	5-	02867	02327	5-	05668	00028
334												
340	20	01754	63564	50	05662	31302				07	08490	00013
136	3-	25856	64586	4-	02867	32487	00	00700	28210	07	05690	27206
336										54	01643	24315
350	8-	01854	65514	50	05663	02313				07	05690	18206
368	54	02734	24426	54	28324	32147	50	01745	28115	5-	02645	00025
379	5-	22738	63568	50	05652	32412	04	05690	00000	393	05652	00015
390	8-	05645	30457	5-	05665	03325	00	05690	24210	5-	05567	26107
382	57	21745	30557	5-	05635	03215	00	05690	00000	03	08490	00004
438	5-	10727	28427							50	00761	02301
430	54	02746	26327	50	05665	30315	00	05690	32100	00	05690	32204
409	5-	21847	31457	57	22847	31468	54	21853	04263	5-	02857	0127

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_h - Height and amount of low cloud—See M.O. 252.
 N - Total amount of cloud—See M.O. 252.
 C, C_m - 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 December 26th 1941

1 S.E. England	Light west wind veering N.W. later, fresh or strong locally on coasts; cloudy; occasional light rain; becoming mild temporarily.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Moderate west wind veering N.W. later, strong to gale locally on coasts; rain at first; bright intervals and wintry showers later; mild temporarily, becoming cold.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 0-7
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 deepening depression S.W. of the Faeroes is moving S.E. Occasional light rain will spread southeast across the British Isles. Later there will be bright intervals and wintry showers in the North.

FURTHER OUTLOOK.

Rather unsettled; cold in the North with wintry showers.

Forecasts issued at 1030 G.M.T.

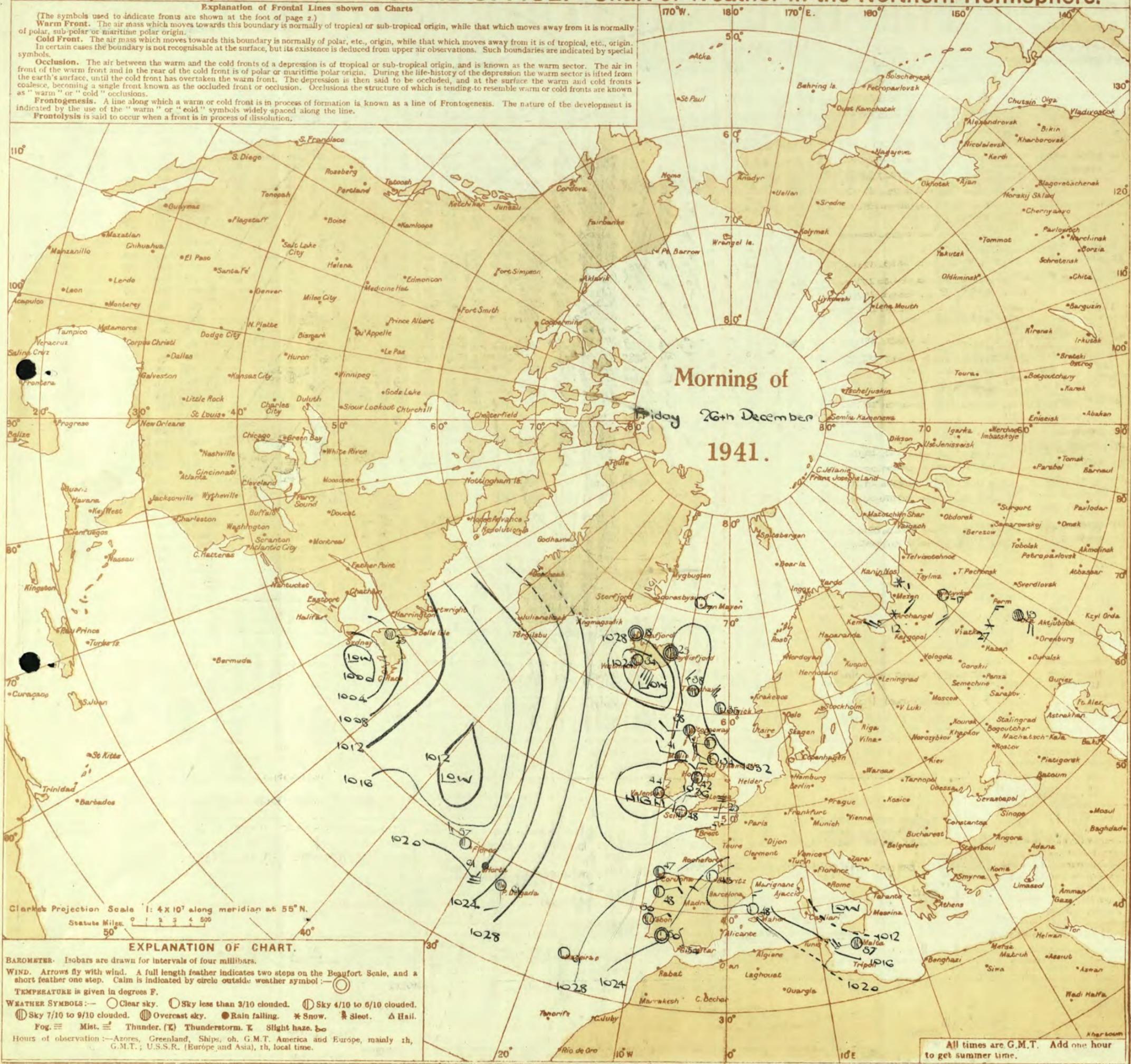
N. K. JOHNSON, D.Sc., A.R.C.S.,
Director.

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 normally 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.



Morning of
 Friday 26th December
 1941.

Clark's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol:—
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS:— ○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◒ Sky 7/10 to 9/10 clouded. ◓ Overcast sky. ● Rain falling. * Snow. ❄ Hail. Fog. ☁ Mist. ⚡ Thunder. (K) Thunderstorm. K Slight haze. ☁
 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.

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

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

PAST 24 HOURS.

Main table with columns for District, Stations, Barom., Wind, Temp., Humid., Cloud, Visibility, etc. for various locations like London (Kew), Shoeburyness, Birmingham, etc.

LONDON OBSERVATIONS table with columns for Day, Night, Min., Max., Rainfall, Humidity, etc. for various London stations.

Table with columns for Weather, Temperature, Rainfall, Humidity, Visibility, etc. for various locations.

EXPLANATION OF FIGURES, LETTERS, etc. section with columns for COLUMNS 2, 16, COLUMNS 4, 18, COLUMNS 8, 22, COLUMNS 34, 35.

FOREIGN OBSERVATIONS table with columns for Stations, Barom., Wind, Temp., Humid., etc. for Reykjavik, Lisbon, Madrid, etc.

Table with columns for Evening of, Morning of, Past 24 Hours, etc. for various locations.

Table with columns for Beaufort No., Statute m/h, etc. for various locations.

SECRET

Saturday 27th December 1941. No. 29255

AIR MINISTRY.

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

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

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

PAST 24 HOURS.

Main data table with columns for Station, Barom., Wind, Temp., Humid., Cloud, and Weather. Includes stations like London (Kew), Shoeburyness, Birmingham, etc.

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

Explanation of figures, letters and symbols. Columns 5, 19, 37, 38, 39, 40 - BEAUFORT NOTATION AND SYMBOLS FOR WEATHER. Columns 9, 23 - FORM OF LOW CLOUD. Columns 10, 24 - FORM OF MEDIUM CLOUD. Columns 11, 25 - FORM OF CIRRUS CLOUD. Includes definitions for cloud forms and weather symbols.

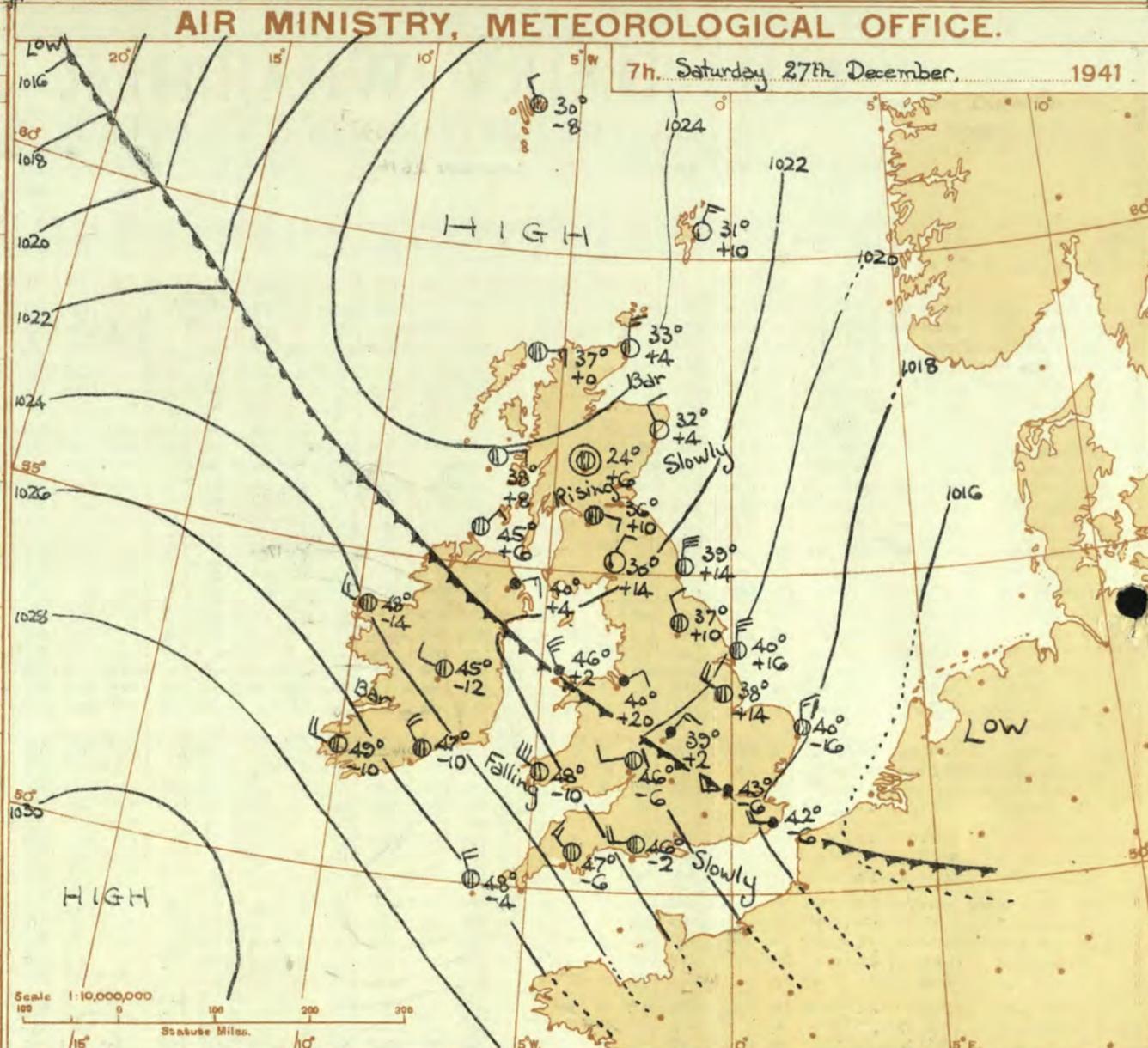
NOTE - The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 25th December 18h. G.M.T.				01h. G.M.T. 27th December 07h. G.M.T.								
III	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN	C _u	wwVhN _h	DDFWN
109	02	71528	02278	52	05745	01578	8-	01854	01574	8-	02854	04484
115	--	74209	12479	287	85734	04487	52	02834	04487	52	02844	04326
203				5-	02797	04367	5-	02846	04416	5-	01949	08323
206	5-	66748	30278	5-	68648	32178	53	01854	32174	5-	01853	00013
210	02	68538	00078	51	62646	32378	46	01953	31313	50	00862	31302
220	83	25836	26487							50	01653	03203
230	53	51746	24157	5-	61748	57468	5-	02856	08226	5-	02858	00019
245	02	62647	21278	52	68548	02278	57	02854	30377	54	00862	30282
260	52	61664	21368	52	05655	22468	57	02755	08168	60	00762	32122
278	52	62637	24368	5-	22846	22827	5-	22848	59568	57	02855	16168
279	57	02845	21327	67	61735	22366	5-	64658	02368	52	02764	02367
285										27	26745	28387
288	07	02830	20227	52	02756	20368	52	02657	31468	53	47364	32165
275	53	21846	24257	53	51746	22257	50	01843	29223	50	01843	28213
301	57	02754	26444	5-	02747	26567	5-	61748	57568	5-	22658	06168
321	5-	17467	26227	5-	05666	24326	52	62645	63468	5-	05667	32367
299				5-	51638		50	52744	32454	50	02755	32515
292				5-	02717	22327	02	61658	29368	5-	05667	24167
310	--	05438	24218	--	51428	24228	--			--	61628	26428
614	53	08466	22227	04	05590	24424	57	61645	59377	52	24644	02378
333	5-	02867	30117	5-	52776	26456	5-	61757	61567	5-	02858	28528
334										--	64537	20268
340	5-	02876	24126	5-	02877	22327	5-	02755	61465	6-	52548	28368
136	07	00590	23327	57	08462	24326	5-	61636	24478	5-	02868	01368
336										57	02754	24428
350	03	05690	22227	53	05662	21327	26	85654	24485	5-	24658	32378
368				54	01655	26225	53	02755	57467	57	21646	26468
379				53	05663	26213	53	05652	2431	5-	54656	24356
390	5-	43387	24247	5-	08467	24227	5-	61668	24468	5-	62558	30368
382	57	03674	25325	57	02765	23327	53	01761	24423	5-	62648	32548
438	5-	02756	30216									
430	5-	05667	21227	00	08490	26113	5-	22677	26367	5-	05657	26317
400	50	02858	23325	57	02746	29268	5-	02847	59467	51	22845	28565

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_u - 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. Saturday 27th December.
1 S.E. England	Light variable winds becoming S.W. to W. Bright intervals and local wintry showers at first. Occasional rain later. Local fog at night. Rather cold becoming milder.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Variable winds finally S.W. to W. moderate. Cloudy. Local rain. Average temperature.
6 South Wales ...	
7 North Wales ...	Light variable winds, becoming S.W. to W. fresh on coasts. Fair at first. Rain later, with snow locally on higher ground. Rather cold, becoming milder.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	Light or moderate West wind. Cloudy. Local rain. 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 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 anticyclone is centred to S.W. of the British Isles and a depression is approaching Iceland. Weather will be fair at first in the North, but rain is likely later. In the East there will be bright intervals and local showers at first and occasional rain later. In the west weather will be cloudy with local rain.

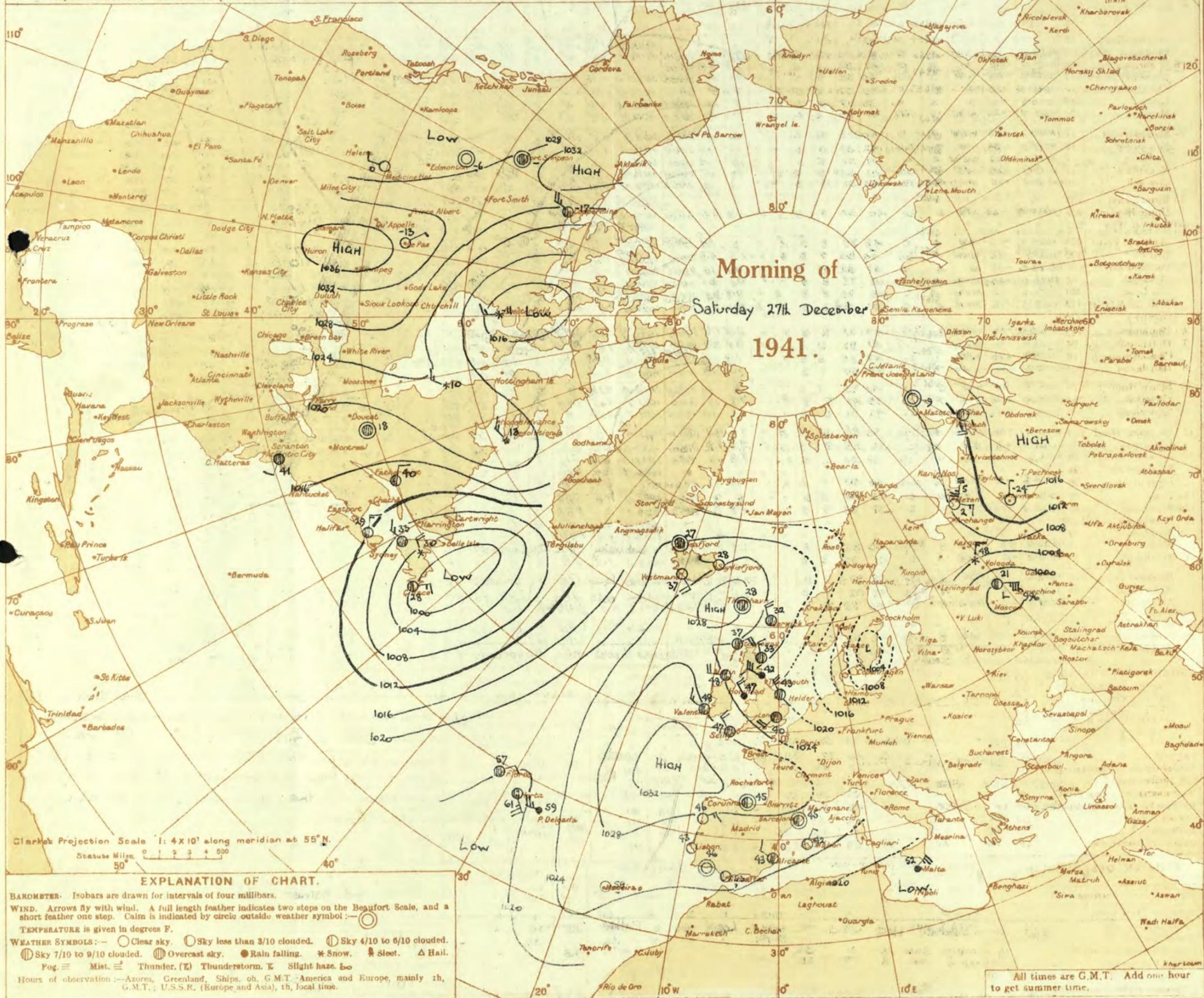
FURTHER OUTLOOK.
 Unsettled and rather mild.

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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TEMPERATURE is given in degrees F.
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 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.

| OBSERVATIONS at 1 hr. G.M.T. December 27th | | | | | | | | | | | | | | OBSERVATIONS at 7 hr. G.M.T. December 27th | | | | | | | | | | | | | | 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. (30) | TEMPERATURE. | | | RAINFALL. | | SUNSHINE Hrs. (36) | | | | | | | |
| | | | | | Direc. | Force. | | | | | Form. | Amount. | Height of Base (feet) (14) | | | Direc. | Force. | | | | | Form. | Amount. | Height of Base (feet) (28) | | Sea. (31) | Max. Day 7h-18h °F. (32) | Min. Night 18h-7h °F. (33) | Min. on Grass °F. (34) | Day 7h-18h mm. (35) | | Night 18h-7h mm. (35) | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Low. | Med. | High. | Low. | Med. | High. |
| 1 | London (Kew) | 18 | * | * | * | * | 42 | * | * | * | * | * | 1019.5 | +6 | NNE | 4 | cr | 41 | 85 | 6 | 5 | - | 10 | 10 | 4000 | 1 | * | 39 | 37 | 28 | Tr | 0.2 | 0.0 | | | | | |
| | Croydon | 217 | 1020.5 | -30 | SW | 4 | c | 40 | 92 | 6 | 5 | 3 | - | 7-8 | 5 | 5000 | 1018.7 | -6 | W | 2 | cr | 43 | 92 | 5 | 5 | - | 10 | 10 | 2000 | 1 | * | 40 | 37 | Tr | 0.2 | 0.4 | | |
| | S. Farnborough | 226 | 1021.0 | -30 | W | 4 | pr | 41 | 92 | 6 | 8 | - | 1 | 7-8 | 7-8 | 3500 | | | | | | | | | | | | | | | | | | | | | | |
| | Boscombe Down | 417 | 1022.8 | -26 | WN | 3 | ido | 40 | 92 | 6 | 5 | - | 3 | 9 | 3000 | 1020.6 | -6 | WNW | 4 | o | 44 | 92 | 7 | 5 | - | 10 | 10 | 2300 | 1 | * | 41 | 34 | 34 | - | Tr | 0.6 | | |
| | Thorney Island | 10 | 1022.4 | -26 | W | 3 | cr | 40 | 92 | 6 | 5 | 3 | - | 7-8 | 9 | 6100 | 1019.9 | -10 | W | 3 | cr | 43 | 92 | 6 | 5 | - | 9 | 9 | 3000 | 1 | * | 39 | 34 | 25 | - | Tr | * | |
| | Lymington | 346 | 1020.8 | -26 | W | 2 | z | 38 | 97 | 5 | 5 | 7 | - | 9 | 10 | 4200 | 1018.4 | -6 | W | 4 | PR | 42 | 97 | 4 | 2 | - | 10 | 10 | 1200 | 1 | § | 37 | 34 | 31 | - | 1 | 0.3 | |
| | Manston | 154 | 1018.4 | -20 | WN | 5 | cr | 41 | 85 | 6 | 5 | - | 9 | 10 | 3200 | 1017.8 | +8 | N | 4 | PR | 41 | 92 | 5 | 5 | - | 10 | 10 | 1100 | 1 | § | 40 | 36 | 33 | - | 1 | 0.0 | | |
| 2 | Shoeburyness | 11 | 1019.1 | -28 | WNW | 4 | o | 40 | 85 | 6 | 5 | - | 10 | 10 | 2800 | 1018.5 | +8 | NW | 3 | rr | 41 | 92 | 5 | 6 | 2 | - | 7-8 | 10 | 1600 | 1 | * | 40 | 40 | 33 | - | 1 | 0.0 | |
| | Felixstowe | 15 | 1017.1 | -34 | W | 5 | cr | 42 | 85 | 5 | 5 | - | 10 | 10 | 2700 | 1018.3 | +14 | N | 3 | cr | 40 | 85 | 6 | 5 | - | 9 | 9 | 1600 | 1 | 3 | 38 | 36 | 34 | - | 1 | 0.0 | | |
| | Gorleston | 5 | 1016.1 | -22 | NW | 4 | z | 41 | 92 | 5 | 6 | - | 10 | 10 | 1500 | 1018.1 | -16 | N | 3 | cr | 40 | 75 | 7 | 8 | - | 9 | 9 | 1500 | 1 | * | 37 | 34 | 33 | - | 2 | * | | |
| | Mildenhall | 19 | 1017.5 | -26 | W'S | 5 | cr | 42 | 85 | 5 | 5 | 2 | - | 9 | 10 | 2800 | 1018.9 | +16 | N'W | 2 | cr | 39 | 92 | 6 | 5 | - | 10 | 10 | 2900 | 1 | * | 37 | 37 | 35 | Tr | 2 | 0.0 | |
| | Cranwell | 240 | 1017.4 | -18 | W | 4 | rs | 43 | 92 | 4 | 5 | - | 10 | 10 | 2500 | 1019.9 | +14 | NW | 4 | z | 38 | 82 | 5 | 5 | 7 | - | 7-8 | 10 | 2500 | 1 | * | 38 | 37 | 35 | - | 2 | 0.0 | |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | | |
| | Upper Heyford | 408 | 1020.4 | -24 | W'S | 3 | bc | 40 | 97 | 7 | 5 | 3 | - | 2-3 | 4.6 | 4000 | 1019.8 | +4 | WNW | 4 | cr | 39 | 97 | 6 | 5 | 2 | - | 9 | 10 | 900 | 1 | * | 40 | 36 | 35 | - | 1 | * |
| | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 5 | Hartland Point | 299 | 1025.1 | -10 | NW | 4 | c | 48 | 75 | 8 | 9 | 4 | - | 9 | 10 | 1500 | 1023.1 | -6 | NW | 5 | c | 49 | 75 | 8 | 8 | - | 9 | 9 | 1500 | 1 | 4 | 46 | 44 | 44 | - | Tr | 2.9 | |
| | Bristol | 209 | 1022.8 | -18 | WNW | 4 | bc | 44 | 92 | 7 | 5 | 3 | - | 2-3 | 4.6 | 3500 | 1020.9 | -8 | NW | 5 | c | 44 | 85 | 7 | 5 | 7 | - | 4.6 | 9 | 2500 | 1 | * | 43 | 37 | 28 | - | 0.2 | 0.9 |
| | Portland Bill | 32 | 1023.5 | -22 | W | 4 | o | 47 | 92 | 7 | 5 | - | 10 | 10 | 2500 | 1021.9 | -2 | W | 4 | o | 46 | 92 | 7 | 5 | - | 10 | 10 | 2500 | 1 | 4 | 47 | 41 | * | - | * | | | |
| | Plymouth | 82 | 1026.0 | -20 | WNW | 4 | c | 48 | 75 | 8 | 5 | - | 9 | 9 | 2000 | 1024.4 | -6 | NW | 3 | c | 47 | 85 | 6 | 8 | - | 9 | 9 | 1500 | 1 | 3 | 49 | 44 | 41 | Tr | 0.4 | 3.0 | | |
| | The Lizard | 240 | 1027.6 | -12 | NW | 4 | c | 48 | 85 | 8 | 8 | 2 | - | 7-8 | 9 | 1500 | 1025.5 | -10 | NW | 5 | c | 47 | 85 | 8 | 6 | - | 7-8 | 7-8 | 1500 | 1 | 4 | 47 | 44 | * | 0.3 | 1 | 0.0 | |
| | Scilly (St. Mary's) | 163 | 1028.5 | -16 | NNW | 4 | c | 47 | 85 | 8 | 8 | 6 | 3 | 4.6 | 9 | 1500 | 1026.5 | -4 | NNW | 4 | c | 48 | 85 | 8 | 8 | 4 | - | 7-8 | 9 | 1200 | 0 | 4 | 48 | 45 | * | 0.2 | 0.3 | |
| | Guernsey | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 6 | Pembroke | 142 | 1025.0 | -16 | WNW | 6 | cq | 49 | 92 | 8 | 8 | 7 | - | 4.6 | 7.8 | 1500 | 1023.3 | -10 | NW | 6 | bc | 48 | 92 | 8 | 8 | - | 4.6 | 4.6 | 2500 | 0 | 3 | 48 | 39 | * | - | - | 1.8 | |
| 7 | Holyhead (Valley) | 26 | 1021.9 | -10 | NW | 4 | c | 47 | 92 | 8 | 5 | - | 9 | 9 | 1500 | 1021.2 | +2 | NW | 5 | dr | 46 | 97 | 5 | 6 | 2 | - | 10 | 10 | 1000 | 1 | 4 | 47 | 45 | 44 | 0.6 | 0.2 | * | |
| | Chester (Sealand) | 16 | 1020.2 | -10 | WN | 5 | z | 47 | 85 | 6 | 8 | 7 | - | 7-8 | 10 | 1600 | 1021.6 | +20 | NE | 2 | DD | 40 | 92 | 4 | 5 | - | 10 | 10 | 1700 | 1 | * | 44 | 40 | 38 | Tr | 1 | 0.0 | |
| | Manchester | 235 | 1019.2 | -14 | NW | 5 | z | 45 | 97 | 7 | 5 | - | 10 | 10 | 1200 | 1021.0 | +18 | - | o | pr | 38 | 97 | 7 | 2 | - | 10 | 10 | 1700 | 1 | * | 45 | 38 | * | Tr | 4 | * | | |
| 10 | Spurn Head | 29 | 1016.3 | -14 | N'W | 5 | cq | 43 | 85 | 7 | 6 | - | 10 | 10 | 2500 | 1019.4 | +16 | N | 5 | c | 40 | 75 | 7 | 8 | 1 | - | 7-8 | 9 | 1500 | 1 | 4 | 38 | * | * | 1 | 1 | 0.0 | |
| | Catterick | 175 | 1019.4 | +18 | N'W | 2 | cr | 39 | 92 | 6 | 5 | 2 | - | 7-8 | 10 | 1200 | 1021.7 | +10 | NNW | 2 | c | 37 | 75 | 7 | 5 | - | 9 | 9 | 2600 | 1 | * | 43 | 37 | 35 | Tr | 1 | 0.3 | |
| | Tynemouth | 108 | 1019.2 | -16 | NW | 6 | cr | 42 | 92 | 6 | 6 | - | 10 | 10 | 1500 | 1021.2 | +14 | N | 6 | c | 39 | 65 | 7 | 2 | - | 9 | 9 | 1500 | 1 | 6 | 42 | 39 | 35 | 0.4 | 1 | * | | |
| 11 | St. Abbs Head | 280 | 1019.9 | +10 | NE | 4 | c/pr | 38 | 85 | 8 | 5 | 4 | - | 7-8 | 9 | 2500 | 1021.4 | +6 | NNW | 4 | bc | 37 | 75 | 8 | 4 | 4 | - | 4.6 | 4.6 | 2500 | 1 | 3 | 46 | 36 | * | 1 | 1 | * |
| | Leuchars | 36 | 1021.4 | +8 | NW | 1 | c | 36 | 85 | 8 | 5 | 3 | - | 4.6 | 7.8 | 3500 | 1023.6 | +8 | NW | 1 | bc | 32 | 85 | 7 | 5 | - | 2.3 | 2.3 | 3500 | 3 | * | 41 | 32 | 22 | 0.2 | 0.1 | 0.0 | |
| 12 | Renfrew (Abbots I.) | 19 | 1021.3 | +14 | E | 2 | cr | 38 | 92 | 5 | 2 | - | 7-8 | 10 | 1300 | 1023.4 | +10 | E'S | 1 | z | 36 | 75 | 6 | 5 | - | 10 | 10 | 1500 | 1 | * | 46 | 36 | 34 | 0.2 | 3 | 0.0 | | |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Point of Ayre | 30 | 1019.6 | -2 | NW | 6 | dodo | 48 | 92 | 7 | 6 | 2 | - | 10 | 10 | 2500 | 1022.1 | +14 | E'N | 4 | c | 41 | 85 | 7 | 6 | 2 | - | 4.6 | 10 | 1500 | 1 | 4 | 47 | 40 | * | 1 | 6 | 0.0 |
| 13a | Tiree | 20 | 1020.5 | +2 | N'E | 2 | c | 43 | 92 | 8 | 5 | - | 9 | 9 | 2500 | 1022.0 | +8 | ENE | 2 | bc | 38 | 85 | 8 | 5 | 4 | - | 2.3 | 2.3 | 2800 | 0 | 4 | 48 | 38 | * | 0.4 | 2 | 0.1 | |
| 13b | Stornoway | 80 | 1024.4 | +14 | ENE | 4 | c | 37 | 92 | 7 | 5 | 2 | - | 7-8 | 9 | 1500 | 1024.7 | 0 | ENE | 3 | c | 37 | 85 | 7 | 5 | 7 | - | 2-3 | 9 | 1000 | 1 | 1 | 47 | 36 | * | 8 | 0.5 | 0.0 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Aberdeen | 79 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 119 | 1022.9 | +8 | N'W | 3 | bc/ps | 33 | 85 | 9 | 8 | - | 2-3 | 2-3 | 2000 | 1023.1 | +4 | NNW | 2 | b | 32 | 85 | 7 | 5 | - | 1 | 1 | 2500 | 8 | 2 | 36 | 28 | 26 | 7 | 0.2 | 0.0 | | |
| 16 | Sumburgh | 30 | 1021.2 | -4 | NNE | 2 | b | 31 | 85 | 8 | 8 | - | 1 | 1 | 2500 | 1022.3 | +10 | N'E | 3 | b | 31 | 85 | 8 | 8 | - | Tr | Tr | 2500 | 4 | * | 34 | 29 | 23 | 0.2 | Tr | 0.0 | | |
| 17 | Blackod Point | 18 | 1026.3 | -12 | WN | 4 | c/pr | 48 | 97 | 7 | 9 | - | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
DEFENCE SECTION

Sunday 28th December 1941.
No 29256

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

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

PAST 24 HOURS.

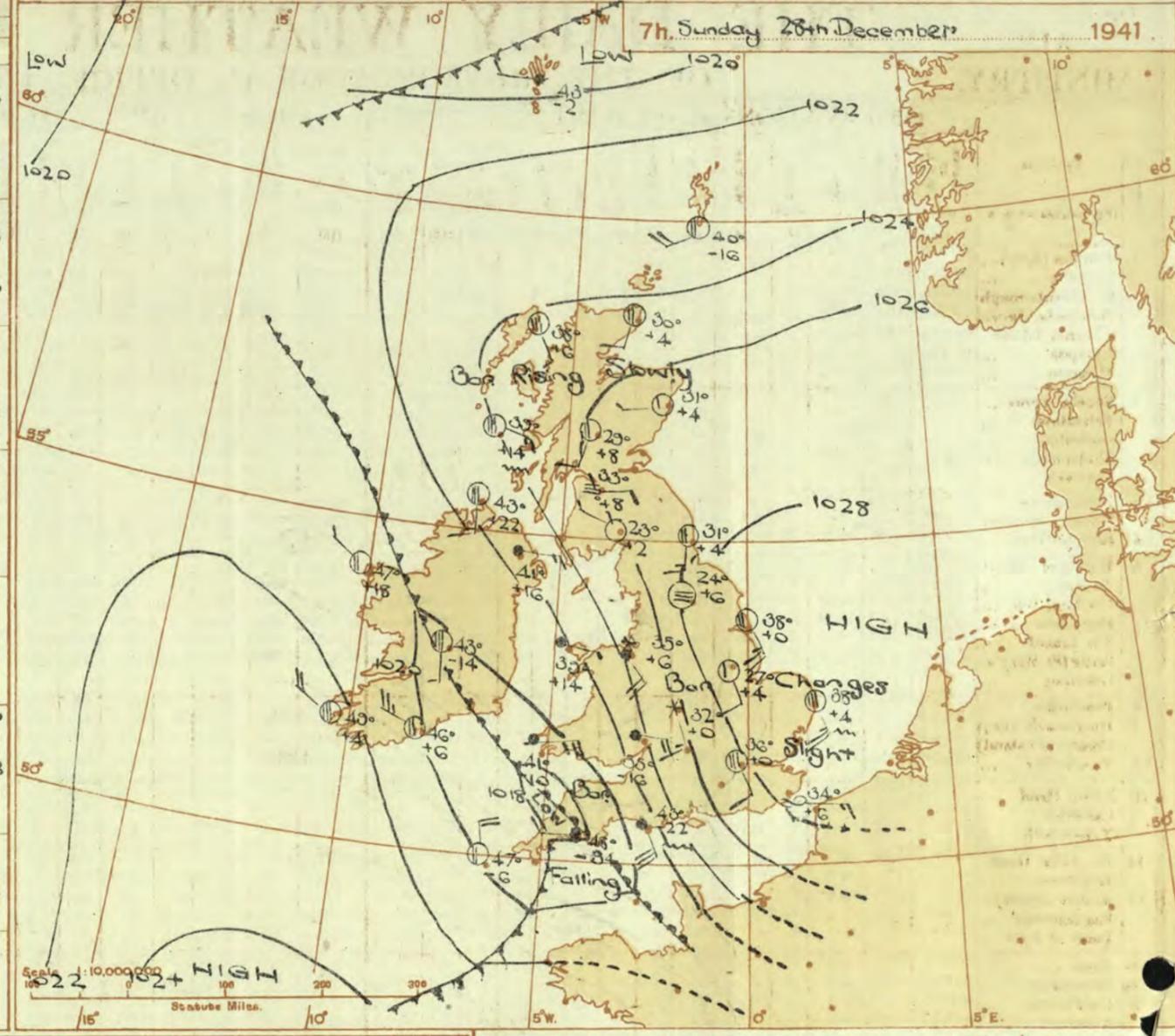
| Diameter. | STATIONS.
(For heights see p. 4.) | Barom.
at
M.S.L.
mb.
(1) | Change in
3 hours.
(2) | Wind. | | Temp.
°F.
(6) | Humid.
%
(7) | Visibility.
m.
(8) | Cloud. | | | | | Barom.
at
M.S.L.
mb.
(15) | Change in
3 hours.
(16) | Wind. | | Temp.
°F.
(20) | Humid.
%
(21) | Visibility.
m.
(22) | Cloud. | | | | | State of
Ground.
(29) | Sea.
(30) | WEATHER. | | | |
|-----------|--------------------------------------|--------------------------------------|------------------------------|---------------|---------------|---------------------|--------------------|--------------------------|--------------|-----------------|---|----------------|---------------|---------------------------------------|-------------------------------|---------------|----------------|----------------------|---------------------|---------------------------|--|---------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|--------------|----------|------|-------|------|
| | | | | Dirac.
(3) | Force.
(4) | | | | Form.
(9) | Amount.
(10) | Height
of
Base.
(feet)
(14) | Dirac.
(17) | Force
(18) | | | Form.
(23) | Amount
(24) | | | | Height
of
Base
(feet)
(28) | 7h.—13h.
27th.
(37) | 13h.—18h.
27th.
(38) | 18h.—27th
28th.
(39) | 1h.—7h.
28th.
(40) | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Low. | Med. | High. | Low. |
| 1 | London (Kew)... | 1025.5 | +18 | N | 2 | 41 | 75 | 5 | 0 | 0 | 2500 | 1025.8 | +12 | N | 2 | 37 | 85 | 4 | 0 | 0 | 1500 | 1 | 1 | 1 | 1 | bc | cm | bc | bc | | |
| | Croydon ... | 1025.2 | +14 | N | 3 | 40 | 85 | 5 | 7 | 7-8 | 1000 | 1025.5 | +10 | N | 1 | 32 | 85 | 3 | 0 | 4-6 | 4000 | 1 | 1 | 1 | 1 | bc | cm | bc | bc | | |
| | S. Farnborough | 1028.6 | +16 | N | 2 | 41 | 85 | 5 | 7 | 7-8 | 3000 | 1028.3 | +10 | N | 1 | 37 | 85 | 3 | 0 | 4-6 | 4000 | 1 | 1 | 1 | 1 | bc | cm | bc | bc | | |
| | Boscombe Down | 1023.8 | +22 | N | 2 | 35 | 52 | 7 | 5 | 10 | 1200 | 1025.6 | +8 | N | 2 | 38 | 85 | 6 | 5 | 7 | 7-8 | 10 | 3000 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| | Thorney Island | 1028.4 | +24 | N | 2 | 41 | 85 | 5 | 7 | 7-8 | 10 | 1025.4 | +16 | N | 2 | 38 | 85 | 6 | 5 | 3 | 7-8 | 10 | 4000 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| | Lympe | 1022.5 | +10 | N | 3 | 39 | 85 | 8 | 2 | 4-6 | 3 | 1025.7 | +10 | N | 2 | 31 | 85 | 7 | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | Manston | 1021.8 | +14 | N | 3 | 41 | 65 | 8 | 3 | 2-3 | 4000 | 1025.2 | +12 | N | 2 | 36 | 75 | 7 | 8 | 1 | 2-3 | 2-3 | 2000 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| 2 | Shoeburyness ... | 1022.5 | +8 | N | 2 | 41 | 75 | 8 | 8 | 1-6 | 4000 | 1025.4 | +14 | N | 3 | 34 | 85 | 7 | 5 | 5 | 0 | 2-3 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Felixstowe ... | 1022.5 | +20 | N | 3 | 41 | 65 | 8 | 8 | 7-8 | 3000 | 1025.1 | +14 | N | 3 | 34 | 85 | 6 | 5 | 7 | 7 | 2500 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Gorleston ... | 1022.0 | +14 | N | 4 | 41 | 55 | 8 | 4 | 4-6 | 3000 | 1025.4 | +20 | N | 3 | 39 | 75 | 7 | 8 | 1 | 7 | 4000 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Mildenhall ... | 1023.1 | +14 | N | 3 | 40 | 75 | 8 | 5 | 2-3 | 2500 | 1025.8 | +14 | N | 2 | 31 | 97 | 6 | 4 | 1 | 7 | 4000 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Cranwell ... | 1023.3 | +4 | N | 3 | 40 | 75 | 6 | 5 | 7 | 2-3 | 4000 | 1026.1 | +12 | N | 3 | 34 | 85 | 4 | 1 | 8 | 0 | 4-6 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| 3 | Birmingham | 1024.1 | +10 | N | 2 | 38 | 65 | 7 | 8 | 0 | 1500 | 1026.0 | +8 | N | 2 | 37 | 75 | 6 | 5 | 1 | 9 | 1500 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Upper Heyford | 1028.4 | +10 | N | 2 | 40 | 75 | 7 | 7 | 7-8 | 2000 | 1025.8 | +20 | N | 2 | 34 | 92 | 6 | 5 | 7 | 4-6 | 1000 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Ross-on-Wye ... | 1023.8 | +14 | N | 2 | 39 | 92 | 6 | 2 | 7 | 2500 | 1025.4 | +4 | N | 2 | 38 | 75 | 6 | 5 | 2 | 7-8 | 10 | 1000 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| 5 | Hartland Point | 1023.3 | +2 | N | 4 | 48 | 85 | 8 | 8 | 4-6 | 1700 | 1025.9 | +4 | N | 4 | 47 | 85 | 8 | 2 | 8 | 4-6 | 7-8 | 1800 | 0 | 4 | 1 | 1 | bc | cm | bc | |
| | Bristol ... | 1024.1 | +20 | N | 2 | 40 | 97 | 3 | 2 | 0 | 10 | 1025.8 | +10 | N | 1 | 39 | 92 | 5 | 5 | 2 | 2-3 | 10 | 1200 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| | Portland Bill ... | 1022.4 | +2 | N | 4 | 50 | 92 | 2 | 4 | 4-6 | 10 | 1024.3 | +6 | N | 1 | 43 | 92 | 7 | 5 | 1 | 10 | 10 | 2500 | 0 | 4 | 1 | 1 | bc | cm | bc | |
| | Plymouth ... | 1024.6 | +2 | N | 4 | 50 | 85 | 8 | 7 | 4-6 | 10 | 1024.8 | +6 | N | 4 | 47 | 92 | 4 | 5 | 1 | 8 | 10 | 4000 | 0 | 3 | 1 | 1 | bc | cm | bc | |
| | The Lisard ... | 1025.7 | +4 | N | 5 | 50 | 85 | 8 | 6 | 7-8 | 7-8 | 1025.6 | +2 | N | 4 | 47 | 97 | 7 | 8 | 2 | 3 | 10 | 1500 | 1 | 4 | 1 | 1 | bc | cm | bc | |
| | Scilly (St. Mary's) | 1028.4 | +2 | N | 5 | 50 | 85 | 8 | 7 | 7-8 | 3 | 1026.0 | +2 | N | 3 | 49 | 92 | 8 | 8 | 7 | 7-8 | 10 | 1500 | 1 | 4 | 1 | 1 | bc | cm | bc | |
| | Guernsey ... | 1024.5 | +2 | N | 4 | 48 | 92 | 8 | 8 | 0 | 2500 | 1024.1 | +4 | N | 2 | 48 | 92 | 8 | 8 | 1 | 4-6 | 10 | 2500 | 0 | 3 | 1 | 1 | bc | cm | bc | |
| 6 | Pembroke | 1022.3 | +4 | N | 3 | 43 | 85 | 6 | 7 | 7-8 | 10 | 1022.6 | +2 | N | 2 | 42 | 92 | 5 | 5 | 1 | 10 | 10 | 1600 | 1 | 2 | 1 | 1 | bc | cm | bc | |
| | Holyhead (Valley) | 1024.3 | +12 | N | 2 | 41 | 65 | 6 | 5 | 7-8 | 10 | 1025.3 | +4 | N | 1 | 43 | 75 | 4 | 1 | 7 | 0 | 10 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Chester (Sealand) | 1025.0 | +10 | N | 0 | 39 | 75 | 6 | 5 | 10 | 10 | 1025.7 | +4 | N | 0 | 36 | 75 | 6 | 5 | 2 | 4-6 | 7-8 | 5700 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| | Manchester ... | 1025.0 | +10 | N | 0 | 39 | 75 | 6 | 5 | 10 | 10 | 1025.7 | +4 | N | 0 | 36 | 75 | 6 | 5 | 2 | 4-6 | 7-8 | 5700 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| 10 | Spurn Head | 1023.4 | +20 | N | 3 | 38 | 85 | 7 | 8 | 7-8 | 7-8 | 1025.2 | +8 | N | 3 | 36 | 85 | 7 | 2 | 1 | 4-6 | 4-6 | 2500 | 1 | 4 | 1 | 1 | bc | cm | bc | |
| | Catterick | 1025.3 | +14 | N | 2 | 36 | 75 | 6 | 4 | 4-6 | 2500 | 1026.7 | +8 | N | 0 | 30 | 92 | 4 | 1 | 3 | 0 | 2-3 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Tynemouth ... | 1024.2 | +6 | N | 4 | 37 | 85 | 8 | 3 | 4-6 | 4-6 | 1026.1 | +4 | N | 2 | 36 | 75 | 6 | 2 | 1 | 4-6 | 4-6 | 2500 | 1 | 4 | 1 | 1 | bc | cm | bc | |
| 11 | St. Abbs Head | 1024.4 | +10 | N | 3 | 36 | 85 | 9 | 4 | 4-6 | 7-8 | 1025.5 | +6 | N | 2 | 34 | 92 | 8 | 5 | 4 | 4-6 | 7-8 | 2500 | 1 | 3 | 1 | 1 | bc | cm | bc | |
| | Leuchars | 1025.4 | +10 | N | 2 | 35 | 75 | 6 | 5 | 1 | 2-3 | 5000 | 1025.8 | +2 | N | 0 | 28 | 97 | 6 | 5 | 1 | 4-6 | 4-6 | 4500 | 1 | 3 | 1 | 1 | bc | cm | bc |
| | Rearrew (Abbots L.) | 1025.7 | +2 | N | 1 | 35 | 65 | 5 | 7 | 0 | 0 | 1025.1 | +2 | N | 1 | 31 | 85 | 3 | 1 | 1 | 0 | 10 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Eakdalemuir ... | 1025.4 | +10 | N | 4 | 32 | 75 | 8 | 7 | 0 | 4-6 | 1026.4 | +6 | N | 5 | 25 | 85 | 8 | 1 | 1 | 0 | 3 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Point of Ayr ... | 1024.3 | +2 | N | 4 | 40 | 65 | 8 | 2 | 7 | 10 | 1024.5 | +2 | N | 0 | 41 | 75 | 8 | 2 | 1 | 10 | 10 | 3500 | 1 | 4 | 1 | 1 | bc | cm | bc | |
| 13A | Tiroo ... | 1021.8 | +6 | N | 4 | 38 | 97 | 7 | 2 | 10 | 10 | 1020.6 | +6 | N | 4 | 39 | 85 | 7 | 5 | 1 | 10 | 10 | 2100 | 0 | 5 | 1 | 1 | bc | cm | bc | |
| | Stornoway | 1024.4 | +14 | N | 4 | 37 | 75 | 8 | 4 | 4-6 | 7-8 | 1022.6 | +8 | N | 3 | 37 | 75 | 7 | 2 | 4 | 5 | 2-3 | 7-8 | 2500 | 1 | 2 | 1 | 1 | bc | cm | bc |
| 16 | Dalwhinnie | 1026.5 | +4 | N | 1 | 28 | 85 | 8 | 4 | 7 | 2-3 | 4000 | 1024.9 | +4 | N | 1 | 25 | 85 | 8 | 4 | 6 | 0 | 7-8 | 4000 | 4 | 1 | 1 | 1 | bc | cm | bc |
| | Aberdeen | 1025.7 | +14 | N | 2 | 31 | 85 | 5 | 7 | 1 | 2-3 | 2300 | 1026.1 | +2 | N | 2 | 27 | 85 | 3 | 3 | 0 | 7 | 1 | 1 | 1 | 1 | bc | cm | bc | | |
| | Wick ... | 1025.4 | +6 | N | 1 | 30 | 85 | 9 | 6 | 7-8 | 3 | 1024.8 | +2 | N | 1 | 34 | 75 | 8 | 8 | 6 | 4-6 | 4-6 | 3000 | 8 | 2 | 1 | 1 | bc | cm | bc | |
| | Sumburgh ... | 1024.0 | +6 | N | 2 | 34 | 85 | 8 | 3 | 7 | 1 | 2500 | 1025.3 | +2 | N | 0 | 30 | 85 | 7 | 8 | 1 | 1 | 3100 | 4 | 2 | 1 | 1 | bc | cm | bc | |
| 17 | Blacksod Point... | 1022.4 | +14 | N | 1 | 49 | 97 | 7 | 6 | 10 | 10 | 1018.9 | +20 | N | 2 | 49 | 97 | 7 | 6 | 1 | 10 | 10 | 1500 | 2 | 2 | 1 | 1 | bc | cm | bc | |
| | Malin Head ... | 1021.8 | +10 | N | 4 | 42 | 92 | 8 | 7 | 4-6 | 7-8 | 1019.0 | +18 | N | 4 | 40 | 92 | 6 | 9 | 1 | 9 | 9 | 800 | 1 | 4 | 1 | 1 | bc | cm | bc | |
| | Aldergrove ... | 1028.3 | 0 | N | 2 | 38 | 82 | 6 | 5 | 10 | 10 | 1022.1 | +14 | N | 3 | 38 | 92 | 6 | 5 | 1 | 10 | 10 | 2000 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| 19 | Birr Castle ... | 1023.8 | +8 | N | 1 | 47 | 97 | 7 | 5 | 10 | 10 | 1021.6 | +10 | N | 1 | 47 | 97 | 7 | 6 | 2 | 7-8 | 10 | 1500 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| | Valentia Obay. † | 1025.8 | +14 | N | 4 | 50 | 92 | 7 | 5 | 9 | 10 | 1023.7 | +14 | N | 4 | 51 | 92 | 7 | 5 | 2 | 7-8 | 10 | 1500 | 1 | 1 | 1 | 1 | bc | cm | bc | |
| | Roches Point ... | 1025.6 | +10 | N | 3 | 43 | 92 | 8 | 5 | 9 | 10 | 1023.5 | +10 | N | 3 | 49 | 92 | 8 | 6 | 2 | 7-8 | 10 | 1500 | 1 | 1 | | | | | | |

Abridged observations of additional stations in the
AVIATION WEATHER CODE

| 13h. G.M.T. 27th December 1941 | | | | 15h. G.M.T. | | | | 01h. G.M.T. 28th December 1941 | | | | 07h. G.M.T. | | | |
|--------------------------------|----------------|--------------------|-------|----------------|--------------------|-------|----------------|--------------------------------|-------|----------------|--------------------|-------------|----------------|--------------------|-------|
| III | C _m | wwVhN _h | DDFWN | C _m | wwVhN _h | DDFWN | C _m | wwVhN _h | DDFWN | C _m | wwVhN _h | DDFWN | C _m | wwVhN _h | DDFWN |
| 109 | 86 | 10004 | 24114 | 5- | 02765 | 00015 | 5- | 02865 | 15525 | 50 | 01862 | 20413 | | | |
| 115 | | | | 54 | 01944 | 12325 | 54 | 01953 | 20314 | 52 | 02854 | 20427 | | | |
| 203 | | | | 5- | 02947 | 12417 | 5- | 03938 | 16328 | | | | | | |
| 206 | 86 | 01963 | 24113 | 03 | 00790 | 00012 | 00 | 05690 | 00000 | 5- | 01764 | 14114 | | | |
| 210 | 83 | 23843 | 19385 | 05 | 00890 | 00001 | 00 | 00790 | 13100 | 50 | 00961 | 14101 | | | |
| 220 | 53 | 01855 | 13305 | 62 | 03436 | 14528 | | | | 52 | 03435 | 00038 | | | |
| 230 | 5- | 02367 | 08127 | 5- | 02968 | 06228 | 51 | 02755 | 00028 | 51 | 02766 | 00018 | | | |
| 245 | 80 | 04964 | 24114 | 54 | 00861 | 28102 | 50 | 01754 | 25184 | 54 | 00661 | 22211 | | | |
| 260 | 00 | 05690 | 00004 | 00 | 47390 | 00010 | 07 | 05590 | 30124 | 50 | 00763 | 00003 | | | |
| 278 | 57 | 02964 | 03267 | 5- | 51868 | 10428 | 51 | 61644 | 45568 | 5- | 05648 | 45468 | | | |
| 279 | 50 | 01960 | 06215 | 5- | 05662 | 06228 | 07 | 05690 | 08226 | 00 | 00790 | 07210 | | | |
| 285 | 53 | 01853 | 32314 | 53 | 01743 | 32314 | | | | | | | | | |
| 288 | 26 | 08454 | 28184 | 53 | 46355 | 4122 | 00 | 05690 | 12244 | 00 | 00890 | 00000 | | | |
| 287 | 55 | 02745 | 22128 | 62 | 64537 | 10268 | 57 | 22744 | 04368 | 5- | 02748 | 06228 | | | |
| 301 | 5- | 05668 | 10128 | 5- | 05578 | 09228 | 02 | 05590 | 45548 | 50 | 05663 | 45523 | | | |
| 321 | 87 | 01753 | 32314 | 50 | 17564 | 31324 | 07 | 47290 | 00046 | 00 | 05590 | 15340 | | | |
| 299 | 80 | 10844 | 32414 | 80 | 01843 | 32313 | 80 | 01744 | 12314 | 8- | 01744 | 22314 | | | |
| 292 | 57 | 05664 | 26214 | 00 | 08490 | 29114 | 00 | 08490 | 00047 | 00 | 05590 | 11200 | | | |
| 310 | -- | 01636 | 32440 | | | | | | | | | | | | |
| 314 | 23 | 05651 | 02127 | 01 | 08490 | 02127 | 02 | 45390 | 06148 | 03 | 05590 | 10324 | | | |
| 333 | 57 | 02854 | 32228 | 62 | 52623 | 16158 | 52 | 62655 | 10468 | 52 | 22754 | 10468 | | | |
| 334 | -- | 02537 | 28358 | -- | 03747 | 28328 | | | | | | | | | |
| 340 | 5- | 02768 | 10158 | 5- | 05668 | 14228 | 5- | 47368 | 14428 | 5- | 71445 | 14375 | | | |
| 136 | 84 | 10855 | 31386 | 20 | 00852 | 32112 | 46 | 01771 | 12115 | 8- | 26755 | 12375 | | | |
| 336 | 62 | 01526 | 32368 | 62 | 63528 | 04368 | | | | | | | | | |
| 350 | 8- | 05666 | 32356 | 05 | 05690 | 32214 | 07 | 05590 | 08226 | 03 | 05690 | 09226 | | | |
| 308 | 50 | 02445 | 28228 | 52 | 62426 | 09468 | 5- | 64538 | 14468 | 62 | 64536 | 09468 | | | |
| 379 | 52 | 02745 | 28377 | 57 | 05664 | 00028 | 5- | 05658 | 08128 | 5- | 74458 | 08478 | | | |
| 390 | 8- | 05667 | 30267 | 00 | 05590 | 00012 | 07 | 46390 | 04148 | 07 | 08490 | 10343 | | | |
| 382 | 57 | 02765 | 02227 | 5- | 05665 | 04226 | 02 | 05590 | 00028 | 5- | 71457 | 10477 | | | |
| 438 | 56 | 10658 | 03326 | | | | | | | 62 | 02654 | 12427 | | | |
| 430 | | | | 07 | 05590 | 32213 | 5- | 02778 | 06328 | 12 | 02752 | 12568 | | | |
| 400 | 5+ | 02845 | 30403 | 57 | 61646 | 02188 | 5- | 64648 | 16168 | 50 | 22644 | 28364 | | | |

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_h - Height and amount of low cloud - See M.O. 252.
 N - Total amount of cloud - See M.O. 252.
 C_m - 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 28th December 1941 |
|---------------------------------|--|
| 1 S.E. England | Light or moderate southeast wind; fine; cold; keen frost at night. |
| 2 E. England ... | |
| 3 E. Midlands ... | |
| 4 W. Midlands ... | Moderate southeast wind; cloudy at first with slight snow locally; fine later; cold; keen frost at night. |
| 5 S.W. England | Moderate or fresh variable wind becoming moderate southeast; cloudy with rain at first, fair later; rather cold; night frost inland. |
| 6 South Wales ... | Moderate or light east to southeast wind; cloudy, some rain or sleet early; fair later; cold; keen frost at night. |
| 7 North Wales ... | |
| 8 N.W. England | |
| 9 N. Midlands ... | |
| 10 N.E. England | Moderate south to southeast wind; fair; cold with keen frost at night. |
| 11 S.E. Scotland | |
| 12 S.W. Scotland & Isle of Man. | |
| 13 A. W. Scotland | |
| 13 B. N.W. Scotland | As 15-16. |
| 14 Mid Scotland | As 8-13A. |
| 15 N. E. Scotland | |
| 16 Orkneys and Shetlands | Light or moderate west wind, cloud increasing; occasional snow showers later; cold. |
| 17 N. W. Ireland | |
| 18 N. E. Ireland | Light east to south east wind; cloudy with slight rain or sleet at first, fair or fine later; cold; frost at night. |
| 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 origins 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 anticyclone over the North Sea and a small depression over south west England are both moving southeast. There will be rain and local sleet at first in the Southwest but otherwise weather will be fair. Temperature will be rather low with keen frost tonight in eastern and midland areas.

FURTHER OUTLOOK.
 Cold and dry in the Southeast with keen night frost; cloudy in the West with a rather low temperature.

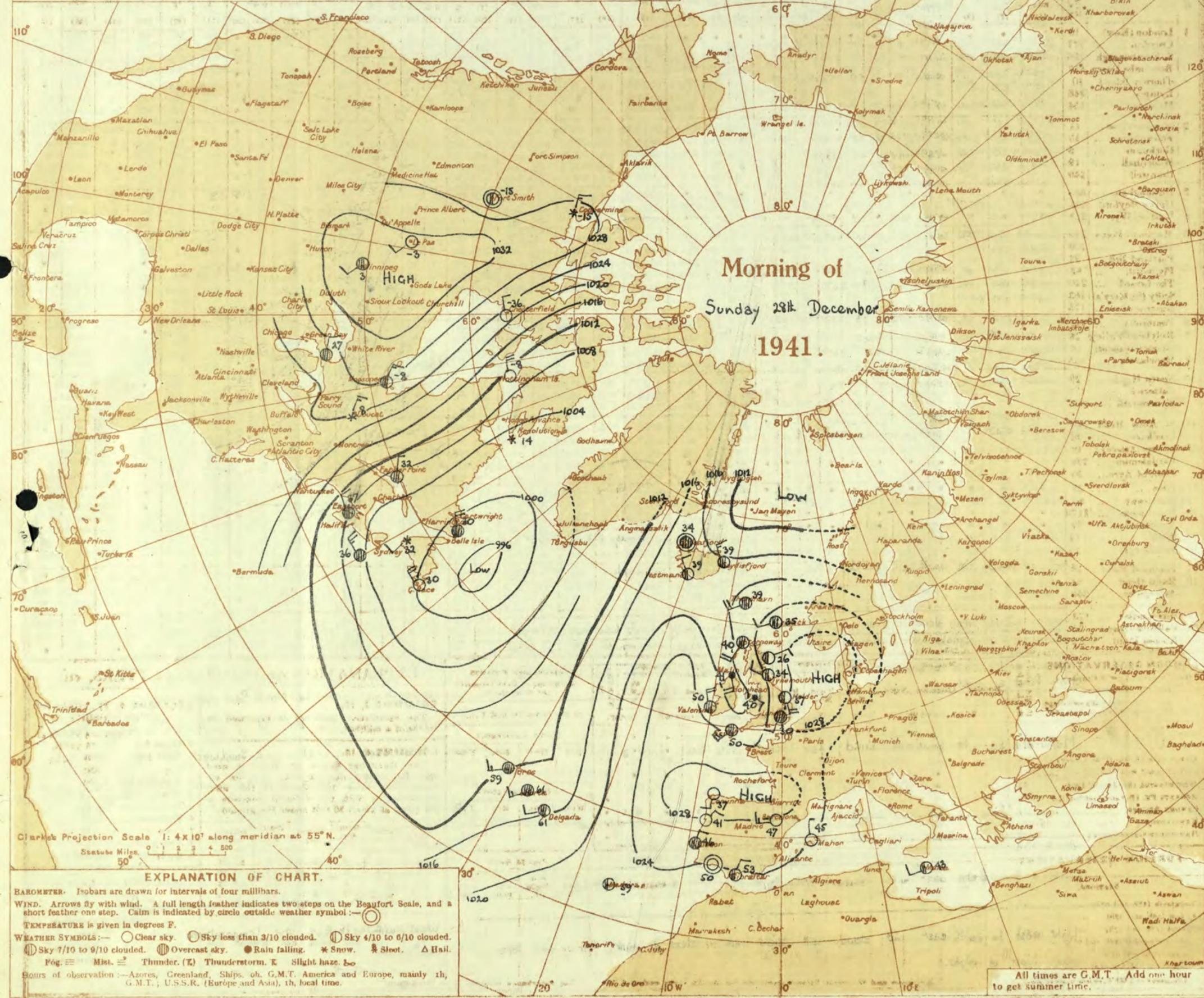
Forecasts issued at 10.30L.
 H.M.S.O. Press, Meteorological Office, Danby.

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.

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

OBSERVATIONS at 7 hr. G.M.T. 28th December

PAST 24 HOURS.

Main table of weather observations for various stations including London (Kew), Shoeburyness, Birmingham, etc., with columns for wind, temperature, humidity, and cloud cover.

LONDON OBSERVATIONS

Table of London observations for stations like Kew, Greenwich, and City, showing weather and temperature data.

EXPLANATION OF FIGURES, LETTERS, etc.

Table explaining the meaning of various symbols and codes used in the weather report, such as cloud codes and wind force indicators.

FOREIGN OBSERVATIONS

Table of foreign weather observations for locations like Reykjavik, Lisbon, Madrid, Cairo, Toronto, and Washington.

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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
BRITISH SECTION
Monday, 29th December, 1941.
No 29257

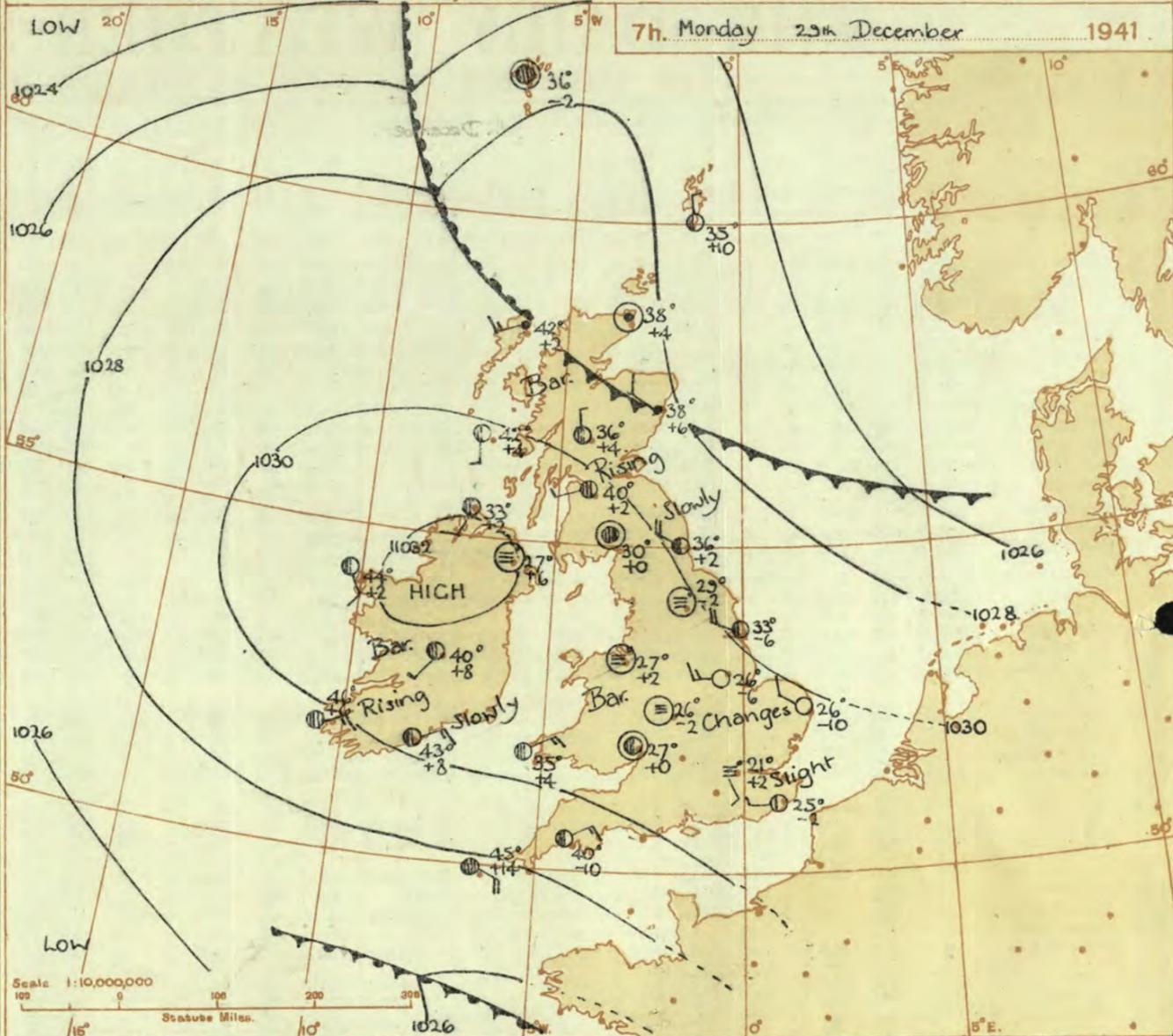
| OBSERVATIONS at 13h. G.M.T. 28th December | | | | | | | | | | | | | | OBSERVATIONS at 18h. G.M.T. 28th December | | | | | | | | | | | | | | PAST 24 HOURS. | | | | | | | |
|---|--------------------------------------|--------------------------------------|------------------------------|-------|-----------------------|-----------------|---------------------|--------------------|---------------------------|--------|--|---|---------------------------------------|---|--------|--|------------------|----------------------|---------------------|----------------------------|---|---------------------------|----------------------------|------------------------------------|---------------------|-------------------------------------|-------------------------|----------------|------|---|----------|---------|---------|---------|----|
| 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. | | | | | | | | | |
| | | | | Dir. | Force.
0-12
(4) | | | | | Form. | Amount.
Low Total
0-10 0-10
(12) (13) | Height
of
Base.
(feet)
(14) | | | Form. | Amount.
Low Total
0-10 0-10
(23) (24) | | | | | Height
of
Base.
(feet)
(25) | 7h.-13h.
28th.
(37) | 13h.-18h.
28th.
(38) | | | 18h. 28th
to
1h. 29th
(39) | 1h.-7h.
29th
(40) | | | | | | | | |
| 1 | London (Kew) ... | 1029.3 | +4 | ESE | 4 | N | 37 | 65 | 6 | 2 | 3 | 2-3 | 2-3 | 2500 | 1030.7 | +8 | E | 3 | 3 | 32 | 75 | 4 | - | - | - | 0 | 0 | - | 1 | * | bccbc | bcc by | bcc | bcc | |
| | Croydon ... | 1029.0 | +6 | SE | 3 | N | 38 | 65 | 7 | 1 | 3 | 4-6 | 4-6 | 2000 | 1029.9 | +6 | ESE | 2 | 3 | 29 | 85 | 4 | - | 7 | 1 | 0 | 1 | - | 3 | * | c,bbc | bz,mo | bmbcmx | cz,bz,x | |
| | S. Farnborough | 1028.6 | +2 | SE | 3 | N | 39 | 65 | 6 | 5 | 3 | 4-6 | 7-8 | 2500 | 1029.9 | +8 | E | 4 | 3 | 32 | 85 | 0 | - | 3 | - | 0 | 4-6 | - | 3 | * | cxbcm | cbz | bcm,bcm | bc,bbmx | |
| | Boscombe Down | 1026.2 | 0 | SE | 6 | N | 39 | 75 | 8 | 5 | 7 | 4-6 | 9+ | 1400 | 1028.5 | +14 | E | 4 | 3 | 35 | 75 | 6 | 5 | 7 | - | 4-6 | 9+ | 4000 | 1 | * | cd,d,ir | ccm | cm,bcm | bm | |
| | Thorney Island | 1027.7 | +8 | SE | 4 | N | 41 | 55 | 9 | 1 | 3 | Tr | 9+ | 2500 | 1028.5 | +6 | SE | 3 | 3 | 39 | 65 | 8 | - | 3 | - | 0 | 9 | - | 1 | * | cd,cd,ir | ccm | cbz | b | |
| | Lympe | 1029.9 | -6 | ESE | 4 | N | 34 | 65 | 7 | 1 | 1 | 1 | 1 | 2000 | 1031.2 | +6 | E | 3 | 3 | 30 | 85 | 6 | 1 | - | - | 2-3 | 2-3 | 2000 | 3 | * | bcxb | bbz,x | bcm,x | bcb,m,x | |
| | Manston | 1030.9 | -2 | SE | 3 | N | 34 | 75 | 7 | 5 | - | Tr | Tr | 3000 | 1031.5 | +4 | SE | 2 | 2 | 31 | 75 | 6 | 5 | - | - | Tr | Tr | 3000 | 3 | * | bm,bbz | b,bz | bcm,x | bbcbmx | |
| 2 | Shoeburyness ... | 1030.7 | +2 | SE | 3 | N | 36 | 75 | 8 | 7 | - | 1 | 1 | 4000 | 1031.3 | +4 | SE | 4 | 3 | 33 | 75 | 6 | - | - | - | 0 | 0 | - | 3 | * | bbcb | b | bm,x | bm,x | |
| | Felixstowe ... | 1031.7 | +4 | SE | 4 | N | 35 | 65 | 9 | 5 | - | 9+ | 9+ | 4000 | 1031.8 | +2 | SE | 4 | 4 | 34 | 85 | 7 | 7 | - | - | 7-8 | 7-8 | 2600 | 1 | * | cm,c | cbc | bcm | cm,cm | |
| | Gorleston | 1032.2 | +6 | S | 4 | N | 36 | 65 | 7 | 2 | - | 4-6 | 4-6 | 2500 | 1032.6 | +4 | SE | 4 | 4 | 34 | 85 | 7 | 8 | - | - | 7-8 | 7-8 | 2500 | 5 | * | cm,ps,bc | bc | bcm | bcm | |
| | Mildenhall ... | 1030.9 | +10 | SE | 5 | N | 36 | 75 | 8 | 1 | - | 1 | 1 | 4000 | 1031.6 | +4 | E | 3 | 3 | 28 | 85 | 6 | - | - | - | 0 | 0 | - | 0 | * | bcxb | bxm,x | b,cm,x | cbm,x | |
| | Cranwell | 1030.2 | +2 | SE | 4 | N | 35 | 85 | 7 | - | - | 0 | Tr | - | 1031.2 | +4 | SE | 3 | 3 | 29 | 92 | 6 | - | - | - | 0 | 0 | - | 3 | * | b | bbcbx | bbcm | bm | |
| 3 | Birmingham | 1027.6 | +8 | SSE | 3 | N | 35 | 85 | 5 | - | 3 | 0 | 9 | - | 1029.8 | +12 | SE | 3 | 3 | 32 | 85 | 5 | - | 3 | - | 0 | 9+ | - | 1 | * | S,oc | CZ | Cb | b | |
| | Upper Heyford | 1027.3 | +4 | SE | 4 | N | 36 | 75 | 5 | 5 | - | 9 | 9 | 6000 | 1029.9 | +12 | E | 3 | 3 | 30 | 92 | 4 | - | 4 | - | 0 | Tr | - | 1 | * | S,oc | CZ | cm,fbm | bcm,fbm | |
| | Ross-on-Wye | 1026.4 | +10 | E | 3 | N | 38 | 75 | 6 | 5 | 2 | 2-3 | 10 | 3000 | 1028.4 | +14 | E | 2 | 2 | 37 | 65 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | * | S,oc | CZ | cm,fbm | cbcbmx | |
| 5 | Hartland Point | 1026.3 | +20 | E | 4 | N | 42 | 85 | 8 | - | - | 9 | 9 | 1500 | 1024.1 | +12 | E | 3 | 3 | 41 | 85 | 8 | 9 | - | - | 9+ | 9+ | 1500 | 1 | 4 | c | c | cd | cbz | |
| | Bristol ... | 1025.3 | +6 | ESE | 5 | N | 39 | 85 | 7 | 5 | 7 | 4-6 | 9+ | 1000 | 1028.1 | +10 | SE | 4 | 4 | 37 | 75 | 6 | 7 | - | - | 1 | 10 | 3000 | 1 | 4 | cm,ir | cm | cd,cbz | bm | |
| | Portland Bill | 1022.9 | +6 | SE | 6 | N | 42 | 92 | 7 | 5 | 5 | 10 | 10 | 2500 | 1025.3 | +8 | SE | 5 | 5 | 43 | 92 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | 6 | cm | cm | c | cbz | |
| | Plymouth | 1019.6 | -2 | NNW | 4 | N | 47 | 85 | 6 | 5 | 5 | 7-8 | 7-8 | 2500 | 1024.0 | +26 | ESE | 6 | 6 | 43 | 97 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | 4 | cm | cm | c | cbz | |
| | The Lizard | 1026.0 | 0 | NW | 3 | N | 47 | 85 | 8 | 8 | 6 | 4-6 | 4-6 | 1500 | 1022.2 | +10 | - | 0 | 47 | 85 | 9 | 8 | 2 | - | - | 7-8 | 10 | 1500 | 1 | 3 | bcpr | c | cm | cm | |
| | Scilly (St. Mary's) | 1021.5 | +6 | NW | 4 | N | 49 | 92 | 8 | 8 | 6 | 4-6 | 7-8 | 1500 | 1022.2 | +6 | NE | 3 | 3 | 47 | 85 | 8 | 8 | - | - | 10 | 10 | 1500 | 1 | 3 | bcpr | cp | c | c | |
| | Guernsey | 1021.5 | +6 | NW | 4 | N | 49 | 92 | 8 | 8 | 6 | 4-6 | 7-8 | 1500 | 1022.2 | +6 | NE | 3 | 3 | 47 | 85 | 8 | 8 | - | - | 10 | 10 | 1500 | 1 | 3 | bcpr | cp | c | c | |
| 6 | Pembroke | 1023.0 | +14 | E'S | 6 | N | 42 | 92 | 8 | 8 | - | 9 | 9 | 2000 | 1025.5 | +10 | E'S | 6 | 6 | 43 | 92 | 8 | 8 | 2 | - | - | 7-8 | 10 | 1500 | 1 | 4 | ir,ca | ca | c | bc |
| | Holyhead (Valley) | 1025.1 | +14 | ESE | 1 | N | 42 | 85 | 7 | 5 | - | 9+ | 9+ | 3000 | 1027.1 | +14 | - | 0 | 41 | 92 | 6 | 5 | 7 | - | - | 7-8 | 10 | 2700 | 1 | 2 | ca | ca | c | cd,cbz | |
| | Chester (Sealand) | 1027.3 | +10 | SE | 3 | N | 39 | 75 | 6 | - | 3 | 0 | 4-6 | - | 1029.6 | +18 | SE | 3 | 3 | 27 | 75 | 4 | - | 3 | - | 0 | 4-6 | - | 1 | * | ca,cbz | bcm,m | bcm | cbz | |
| | Manchester | 1028.3 | +10 | S | 4 | N | 37 | 75 | 6 | - | 3 | 0 | 7-8 | - | 1029.9 | +12 | SSE | 3 | 3 | 34 | 75 | 7 | - | - | 5 | 0 | 1 | - | 1 | * | c | bc | bbz,cm | bm,x,cm | |
| 10 | Spurn Head | 1026.5 | +8 | SE | 5 | N | 38 | 75 | 7 | - | 8 | 0 | 2-3 | - | 1030.7 | 0 | S | 4 | 35 | 85 | 7 | - | - | - | - | 0 | 0 | - | 0 | 4 | bc | bc | bc | bc | |
| | Catterick | 1030.0 | -2 | SE | 3 | N | 30 | 97 | 4 | 5 | 4 | 4-6 | 7-8 | 2500 | 1030.8 | +4 | SW | 3 | 31 | 92 | 3 | - | 3 | - | - | 0 | 9+ | - | 3 | 4 | bc | bc | bc | bc | |
| | Tynemouth | 1029.3 | +2 | SW | 3 | N | 32 | 92 | 5 | 8 | - | 4-6 | 4-6 | 1500 | 1029.3 | +2 | SW | 3 | 31 | 92 | 3 | 2 | - | - | - | 2-3 | 2-3 | 1500 | 1 | 3 | bc | bc | bc | bc | |
| 11 | St. Abbs Head | 1027.2 | +4 | SW | 4 | N | 33 | 75 | 8 | 4 | 4 | 2-3 | 7-8 | 2500 | 1028.2 | +4 | WNW | 3 | 36 | 75 | 7 | 5 | 4 | - | - | 4-6 | 7-8 | 2500 | 3 | 2 | c | c | c | c | |
| | Leuchars | 1027.9 | -4 | W | 1 | N | 30 | 92 | 6 | 1 | 2 | 0 | 7-8 | - | 1028.1 | +6 | W | 0 | 33 | 85 | 6 | 6 | 5 | - | - | 9+ | 9+ | 5700 | 3 | * | bc,cm,x | bc,cm,x | cm,x,cm | cm,cm | |
| | Renfrew (Abbots L.) | 1028.6 | +2 | - | 0 | N | 34 | 85 | 4 | 5 | - | 10 | 10 | 4000 | 1029.4 | +2 | - | 0 | 32 | 85 | 3 | 5 | 1 | - | - | 7-8 | 7-8 | 4000 | 1 | * | cm,fbm | cm | cm | cm | |
| | Bakdalemuir | 1028.4 | -2 | - | 0 | N | 32 | 75 | 7 | 4 | 8 | 0 | 7-8 | - | 1030.1 | +8 | - | 0 | 25 | 85 | 7 | 5 | 7 | 1 | - | 2-3 | 4-6 | 4000 | 3 | * | bc,cbz | cbz | bc | bc | |
| | Point of Ayre | 1027.0 | +10 | SE | 4 | N | 40 | 85 | 7 | 5 | 2 | 4-6 | 10 | 2500 | 1028.4 | +12 | SE | 3 | 41 | 85 | 6 | 6 | 2 | - | - | 7-8 | 10 | 800 | 0 | 4 | c | z | cbz | obbc | |
| 13a | Tiree | 1027.1 | +10 | SSE | 1 | N | 42 | 85 | 8 | 5 | 3 | 4-6 | 7-8 | 3500 | 1028.0 | +4 | S | 1 | 41 | 92 | 8 | 5 | - | - | - | 7-8 | 7-8 | 3500 | 0 | 3 | c | c | b | bc | |
| | Stornoway | 1026.2 | +8 | SW | 4 | N | 42 | 92 | 8 | 5 | 7 | 7-8 | 9+ | 2500 | 1027.4 | +4 | SW | 1 | 44 | 97 | 7 | 8 | 7 | - | - | 7-8 | 10 | 1500 | 1 | 2 | c | cm,pr | b | bc | |
| | Dalwhinnie | 1027.4 | +4 | S | 1 | N | 32 | 92 | 8 | 4 | 1 | 9+ | 9+ | 4000 | 1028.5 | +6 | - | 0 | 31 | 85 | 8 | 5 | 2 | - | - | 10 | 10 | 2500 | 4 | * | bc | bc | bc | bc | |
| | Aberdeen | 1026.8 | -6 | WS | 2 | N | 35 | 75 | 6 | - | 2 | 0 | 4-6 | - | 1026.8 | -2 | WNW | 2 | 35 | 85 | 5 | 5 | 2 | - | - | 4-6 | 10 | 1700 | 8 | 2 | bz | bc | bc | omid | |
| | Wick | 1025.2 | -2 | WS | 2 | N | 36 | 85 | 7 | 8 | 7 | 7-8 | 9+ | 3500 | 1025.4 | +2 | WNW | 4 | 37 | 92 | 7 | 8 | 3 | - | - | 7-8 | 9 | 2500 | 8 | * | bc,cm | bc,pr | pr,cbz | cbz | |
| | Sumburgh | 1021.5 | -6 | W | 5 | N | 43 | 75 | 9 | 5 | - | 9+ | 9+ | 2500 | 1022.9 | +14 | N | 1 | 40 | 85 | 8 | 5 | 3 | - | - | Tr | 1 | 2500 | 1 | 3 | bc | cm,pr | b,c | cbz | |
| 17 | Blackod Point | 1024.8 | +14 | ENE | 3 | N | 47 | 85 | 8 | 2 | - | 2-3 | 2-3 | 1500 | 1027.2 | +16 | EN | 3 | 45 | 97 | 8 | - | 7 | - | - | 0 | 10 | - | 0 | 3 | bc | c | c | c | |
| | Malin Head | 1026.2 | +14 | ESE | 3 | N | 43 | 92 | 7 | 4 | 6 | 4-6 | 7-8 | 1500 | 1028.4 | +12 | S | 2 | 39 | 92 | 8 | 4 | - | | | | | | | | | | | | |

Abridged observations of additional stations in the
AVIATION WEATHER CODE

| 13h. G.M.T. 29th Dec. | | | | 18h. G.M.T. | | | | 01h. G.M.T. 30th Dec. | | | | 07h. G.M.T. | | | |
|-----------------------|----------------|--------------------|-------|----------------|--------------------|-------|----------------|-----------------------|-------|----------------|--------------------|-------------|----------------|--------------------|-------|
| III | C _w | wwVhN _h | DDFWN | C _w | wwVhN _h | DDFWN | C _w | wwVhN _h | DDFWN | C _w | wwVhN _h | DDFWN | C _w | wwVhN _h | DDFWN |
| 109 | 87 | 02744 | 23565 | 8 | 61747 | 27427 | 5 | 02707 | 28227 | 5 | 01863 | 28213 | | | |
| 115 | 52 | 25344 | 20487 | 52 | 02838 | 22487 | 57 | 31844 | 24386 | 52 | 25834 | 28387 | | | |
| 203 | | | | 5 | 03838 | 16428 | 50 | 01844 | 28384 | | | | | | |
| 206 | 53 | 02075 | 16123 | 33 | 02865 | 24227 | 53 | 02886 | 24227 | 5 | 02858 | 28128 | | | |
| 210 | 57 | 02876 | 00028 | 57 | 02865 | 24357 | 57 | 22844 | 28467 | 07 | 31845 | 28468 | | | |
| 220 | | | | 51 | 02655 | 18118 | | | | 53 | 01853 | 00013 | | | |
| 230 | 5 | 02867 | 00027 | 5 | 05667 | 10127 | 5 | 05668 | 00028 | 5 | 05658 | 00028 | | | |
| 245 | 00 | 05656 | 23216 | | | | 03 | 00790 | 24212 | 5 | 05667 | 28257 | | | |
| 260 | 53 | 05865 | 00017 | 1 | 2-053 | 08472 | 5 | 08477 | 20227 | 50 | 05572 | 22112 | | | |
| 278 | 5 | 02753 | 12328 | 50 | 00662 | 08222 | 03 | 05580 | 00014 | 5 | 05664 | 28114 | | | |
| 279 | 57 | 05652 | 06115 | 03 | 08490 | 31131 | 03 | 05500 | 00018 | 5 | 05663 | 20128 | | | |
| 285 | | | | | | | | | | 5 | 05636 | 30426 | | | |
| 288 | 00 | 08490 | 22145 | 5 | 08-65 | 00016 | 5 | 41475 | 18145 | 5 | 43358 | 17188 | | | |
| 295 | 5 | 02748 | 26228 | 5 | 05667 | 08227 | 00 | 04630 | 00001 | 50 | 08490 | 00101 | | | |
| 301 | 5 | 05667 | 12427 | 5 | 05857 | 13327 | 03 | 08490 | 10121 | 04 | 08490 | 10101 | | | |
| 321 | 53 | 01774 | 14314 | 07 | 01700 | 12315 | 00 | 08490 | 18220 | 00 | 08490 | 21103 | | | |
| 299 | 80 | 01744 | 16514 | 00 | 00700 | 22300 | 50 | 00751 | 24301 | 52 | 02754 | 24316 | | | |
| 292 | 50 | 05663 | 14203 | 5 | 05667 | 19227 | 00 | 08490 | 18110 | 03 | 47330 | 00014 | | | |
| 310 | | | | | | | | | | -- | 01641 | 32211 | | | |
| 314 | 03 | 05650 | 12324 | 00 | 05630 | 12210 | 03 | 05530 | 22121 | | | | | | |
| 333 | 5 | 02776 | 10426 | 54 | 20764 | 30127 | 5 | 58658 | 00008 | 00 | 05630 | 04110 | | | |
| 334 | | | | | | | | | | -- | 00690 | 00002 | | | |
| 340 | 03 | 05530 | 13445 | 03 | 08490 | 11426 | 03 | 43300 | 12148 | 00 | 43300 | 00040 | | | |
| 136 | 80 | 00862 | 13312 | 00 | 00890 | 18201 | 04 | 05630 | 20218 | 04 | 05530 | 28211 | | | |
| 336 | | | | | | | | | | -- | 05530 | 08320 | | | |
| 350 | 03 | 05650 | 12412 | 08 | 05530 | 08313 | 07 | 05530 | 12204 | 00 | 05530 | 20101 | | | |
| 308 | 62 | 01736 | 12568 | 52 | 02857 | 05528 | 04 | 05630 | 06311 | | | | | | |
| 379 | 5 | 05658 | 08478 | 00 | 05630 | 12213 | 00 | 05530 | 12223 | 00 | 08490 | 12210 | | | |
| 390 | 10 | 01754 | 07414 | 06 | 05530 | 12200 | 00 | 05630 | 00015 | 00 | 08490 | 00000 | | | |
| 382 | 5 | 02777 | 43427 | 03 | 05630 | 10313 | 02 | 05530 | 00003 | 03 | 08490 | 00002 | | | |
| 458 | 76 | 02854 | 10515 | | | | | | | 50 | 01763 | 02213 | | | |
| 430 | 3 | 02861 | 10527 | 03 | 01430 | 10313 | 00 | 00730 | 04212 | 00 | 05630 | 02200 | | | |
| 400 | 54 | 02856 | 31367 | 5 | 61738 | 10368 | 5 | 51647 | 07357 | 5 | 02748 | 02808 | | | |

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_m - 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. Monday 29th December |
|---------------------------------|---|
| 1 S.E. England | |
| 2 E. England ... | Light variable winds. Fine but with some fog in industrial areas, night and morning. Cold with keen or hard frost at night. |
| 3 E. Midlands ... | |
| 4 W. Midlands ... | |
| 5 S.W. England | Moderate to light easterly winds. Fair; rather cold with some night frost |
| 6 South Wales ... | in inland districts. |
| 7 North Wales ... | |
| 8 N.W. England | As 1-4 |
| 9 N. Midlands ... | |
| 10 N.E. England | |
| 11 S.E. Scotland | Light or moderate westerly to variable winds. Fair; rather cold with local frost at night. |
| 12 S.W. Scotland & Isle of Man. | |
| 13A. W. Scotland | |
| 13B. N.W. Scotland | |
| 14 Mid Scotland | Light or moderate winds from between northwest and southwest. Cloudy, with local rain; sleet or snow on high ground. Rather cold. |
| 15 N. E. Scotland | |
| 16 Orkneys and Shetlands | |
| 17 N. W. Ireland | |
| 18 N. E. Ireland | As 1-4 |
| 19 S. E. Ireland | |
| 20 S. W. Ireland | As 5-6 |

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 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 elongated anticyclone covers this country with its axis from Northwest Ireland to Southeast England. Weather will be fine except in the extreme northeast and southwest of the British Isles, but there will be local fog in populous areas. There will be further keen frost in the night and morning.

FURTHER OUTLOOK.

No great change.

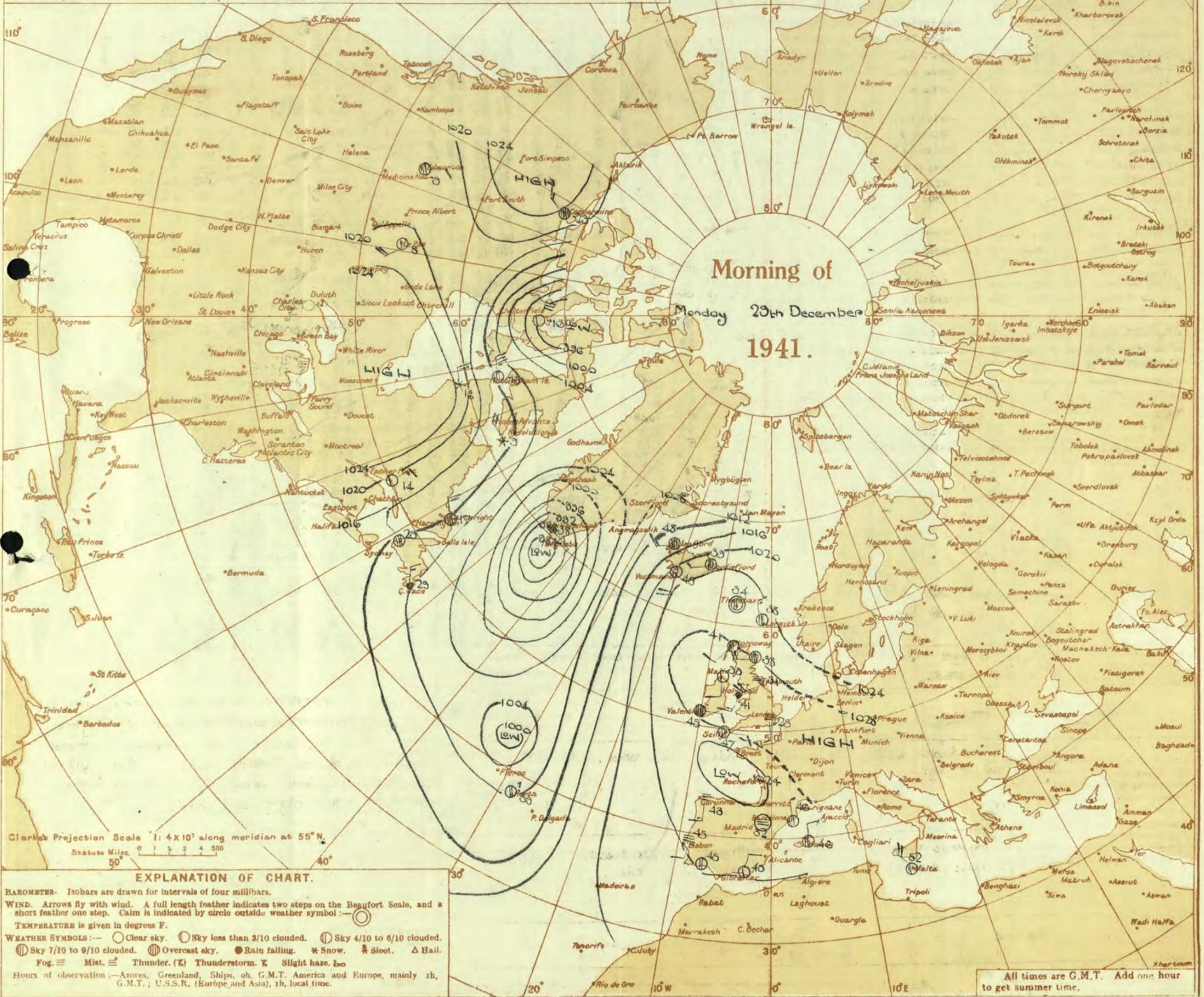
Forecasts issued at 1030 G.M.T. N. K. JOHNSON, D.Sc., A.R.C.S. Director.

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.

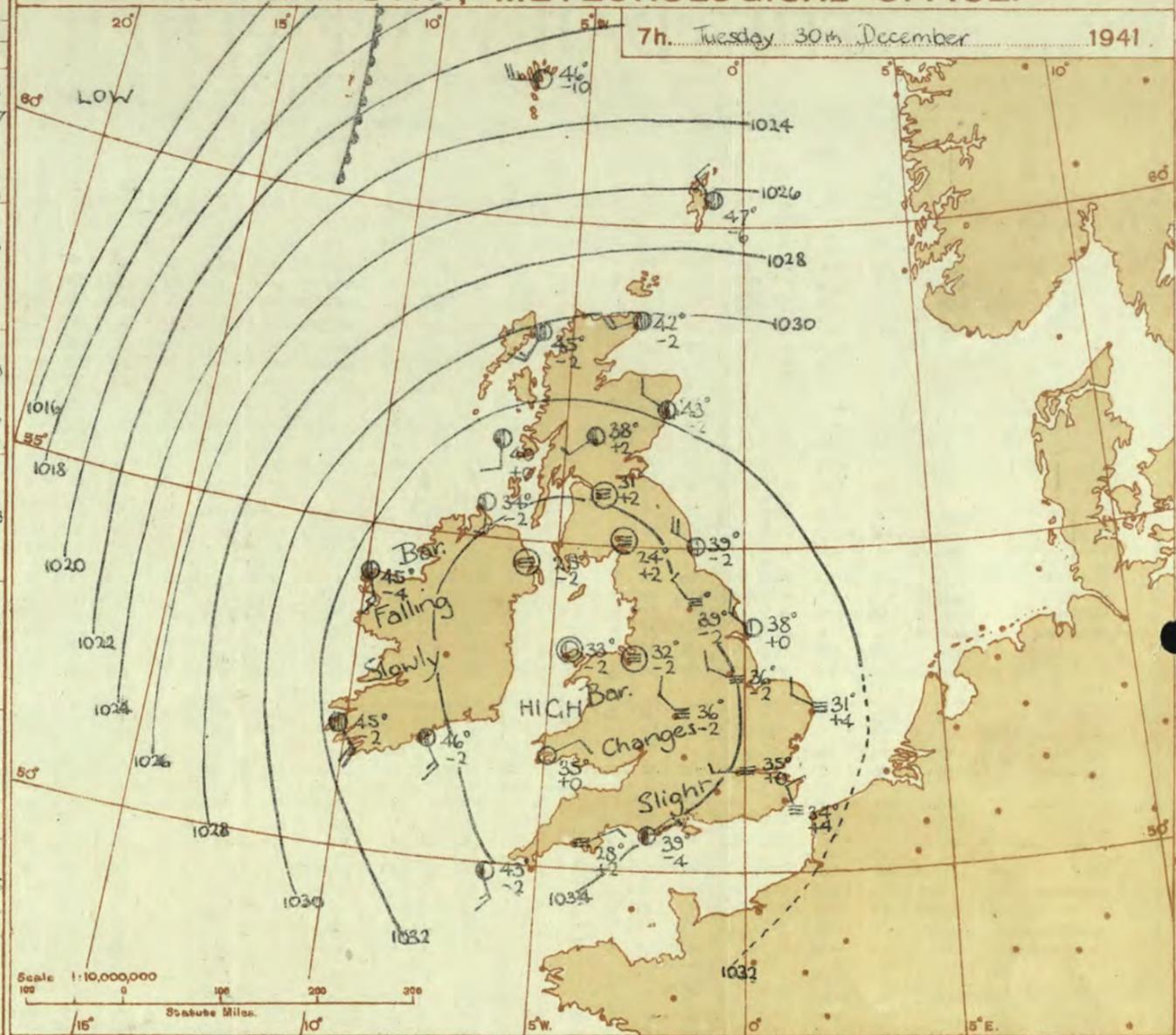


Abridged observations of additional stations in the
AVIATION WEATHER CODE

| 13h. G.M.T. 29th Dec. | | | | 18h. G.M.T. | | | | 01h. G.M.T. 30th Dec. | | | | 07h. G.M.T. | | | |
|-----------------------|----------------|--------------------|--------------------|----------------|--------------------|--------------------|----------------|-----------------------|--------------------|----------------|--------------------|--------------------|----------------|--------------------|--------------------|
| III | C ₁ | wwVhN ₁ | DDFWN ₁ | C ₂ | wwVhN ₂ | DDFWN ₂ | C ₃ | wwVhN ₃ | DDFWN ₃ | C ₄ | wwVhN ₄ | DDFWN ₄ | C ₅ | wwVhN ₅ | DDFWN ₅ |
| 109 | 54 | 02764 | 00015 | 5- | 02748 | 20128 | 5- | 02758 | 24428 | 52 | 52045 | 23108 | | | |
| 115 | 87 | 81834 | 24387 | | | | 53 | 02844 | 24327 | 52 | 02844 | 24427 | | | |
| 203 | | | | 5- | 02838 | 24428 | 7- | 02845 | 20428 | | | | | | |
| 206 | 83 | 81865 | 26186 | 57 | 02766 | 26187 | 52 | 02865 | 24688 | 5- | 02763 | 00018 | | | |
| 210 | 51 | 24856 | 28258 | 57 | 02866 | 22228 | 53 | 02730 | 20328 | 53 | 02864 | 20325 | | | |
| 220 | 50 | 01754 | 23214 | | | | | | | | | | | | |
| 230 | 87 | 05854 | 22127 | 8- | 05753 | 00026 | 00 | 05680 | 00000 | 5- | 05245 | 00015 | | | |
| 245 | 5- | 61946 | 24167 | 53 | 22656 | 27167 | 00 | 05620 | 26100 | 53 | 0764 | 23118 | | | |
| 260 | 05 | 08490 | 22113 | 00 | 47290 | 00040 | 5- | 43877 | 22147 | 50 | 08464 | 22144 | | | |
| 278 | 53 | 00782 | 29213 | 5- | 05665 | 26215 | 00 | 05630 | 14100 | 90 | 47290 | 25140 | | | |
| 279 | 50 | 05546 | 20126 | 03 | 47330 | 20116 | 03 | 45290 | 00048 | - | 44100 | 00049 | | | |
| 285 | 53 | 02853 | 32326 | | | | | | | 5- | 00852 | 32403 | | | |
| 288 | 5- | 05567 | 19127 | | | | 5- | 57258 | 22248 | 57 | 05675 | 20188 | | | |
| 276 | 03 | 05590 | 24101 | 00 | 47290 | 08140 | 00 | 45190 | 11240 | 00 | 45190 | 00040 | | | |
| 301 | 5- | 43376 | 28146 | 00 | 45190 | 11140 | 00 | 45000 | 00040 | - | 46000 | 12149 | | | |
| 321 | 03 | 46390 | 26244 | 50 | 46264 | 26144 | 53 | 46860 | 27247 | 50 | 47271 | 24141 | | | |
| 299 | | | | 3- | 02740 | 26210 | | | | 50 | 01743 | 24113 | | | |
| 292 | 53 | 08466 | 25147 | 51 | 08465 | 28168 | | | | 57 | 08453 | 00003 | | | |
| 310 | - | 01634 | 32314 | | | | | | | - | 01640 | 26310 | | | |
| 614 | 03 | 43390 | 24245 | 07 | 45290 | 26148 | 5- | 43364 | 28144 | | | | | | |
| 333 | 03 | 01590 | 00002 | 00 | 05630 | 26200 | 00 | 05800 | 00000 | 00 | 05590 | 00000 | | | |
| 334 | - | 05554 | 02215 | - | 05654 | 04215 | | | | - | 01672 | 02003 | | | |
| 340 | | | | 07 | 47330 | 00047 | 5- | 47218 | 12148 | 5- | 43328 | 04148 | | | |
| 136 | 5- | 22467 | 24367 | 53 | 22448 | 24367 | 5- | 47300 | 28200 | - | 48100 | 24249 | | | |
| 336 | 50 | 01752 | 12312 | 50 | 01743 | 04313 | | | | | | | | | |
| 350 | | | | 53 | 47304 | 26227 | 5- | 45307 | 24247 | 5- | 45308 | 24248 | | | |
| 368 | 00 | 05590 | 04110 | 00 | 08490 | 30100 | 00 | 45300 | 00040 | | | | | | |
| 379 | 50 | 05661 | 24301 | 53 | 05663 | 22316 | 03 | 45330 | 30347 | 5- | 08457 | 30367 | | | |
| 390 | 5- | 47366 | 25206 | 53 | 45305 | 26248 | 5- | 45238 | 22358 | 5- | 43238 | 26258 | | | |
| 382 | | | | 53 | 08474 | 20116 | 5- | 47358 | 00048 | 5- | 45258 | 00048 | | | |
| 438 | | | | | | | | | | 8- | 02765 | 02715 | | | |
| 430 | 00 | 00790 | 32101 | 00 | 08490 | 28100 | 5- | 08478 | 32318 | 5- | 08460 | 30330 | | | |
| 400 | 10 | 05861 | 06211 | 50 | 05761 | 06101 | 00 | 05690 | 00000 | 00 | 05690 | 06100 | | | |

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C₁, C₂ - 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 30th December |
|---------------------------------|---|
| 1 S.E. England | |
| 2 E. England ... | Light variable winds becoming south, light or moderate. Fair or fine |
| 3 E. Midlands ... | apart from rather general fog persisting all day in industrial areas |
| 4 W. Midlands ... | and near large towns, and becoming fairly general again to-night. Rather |
| 5 S.W. England | cold; keen night frost. |
| 6 South Wales ... | |
| 7 North Wales ... | |
| 8 N.W. England | |
| 9 N. Midlands ... | Light west wind backing southwest, moderate. Fair or fine; fog locally, |
| 10 N.E. England | particularly in Mersey area, probably clearing tomorrow. Rather cold; |
| 11 S.E. Scotland | keen night frost. |
| 12 S.W. Scotland & Isle of Man. | |
| 13A. W. Scotland | |
| 13B. N.W. Scotland | Light or moderate west wind, backing southwest to south and freshening. |
| 14 Mid Scotland | Fair at first, local rain later. Rather cold, becoming milder. |
| 15 N. E. Scotland | |
| 16 Orkneys and Shetlands | |
| 17 N. W. Ireland | |
| 18 N. E. Ireland | Light south or southeast wind becoming moderate or fresh. Fair; local |
| 19 S. E. Ireland | fog to-day. Rather cold; keen night frost locally. |
| 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 anticyclone centred over the Irish Sea is moving slowly southeast. Weather will be fair or fine apart from fairly general fog in England and Wales at first, persisting all day in industrial areas and near large towns, and becoming general again to-night. It will be rather cold and frost will persist in foggy areas to-day, and become keen to-night, generally.

FURTHER OUTLOOK.

Fair in the Southeast with night frost; unsettled and mild in the Northwest.

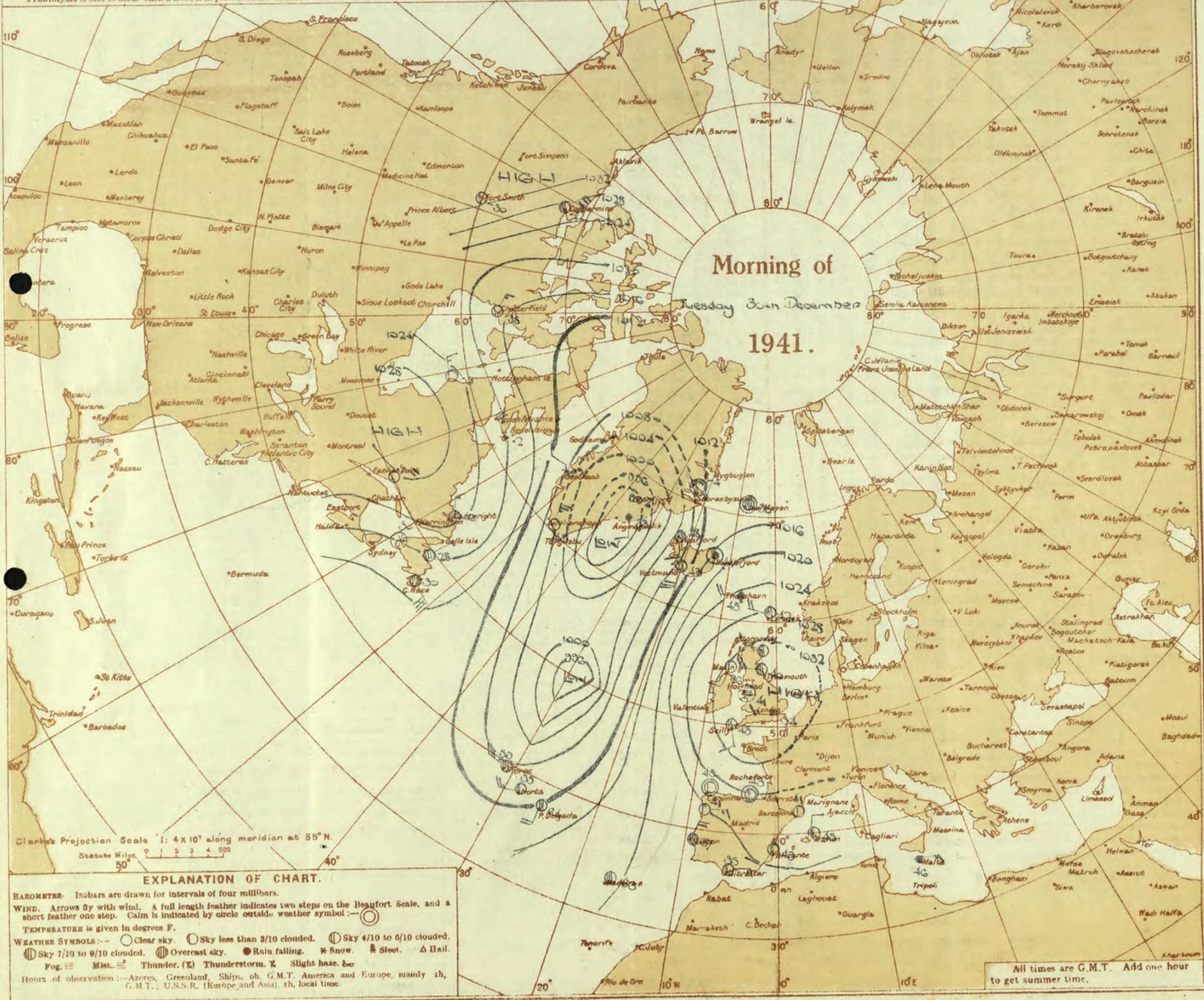
Forecasts issued at 1030 G.M.T. N. K. JOHNSON, D.Sc., A.R.C.S., Director.

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.
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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 30th December
 1941.

Clark's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.
 Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.
WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS: ☉ Clear sky. ☁ Sky less than 3/10 clouded. ☁ Sky 4/10 to 6/10 clouded. ☁ Sky 7/10 to 9/10 clouded. ☁ Overcast sky. ☔ Rain falling. ❄ Snow. ⚡ Sleet. ⚡ Hail.
 ☁ Fog. ☁ Mist. ⚡ Thunder. ⚡ Thunderstorm. ☁ Slight haze. ☁
 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.

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

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

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. | | | | Sea. (30) | TEMPERATURE. | | | RAINFALL. | | RUNNING 24 Hrs. (36) | |
|-----------|---------------------|------------------------------|----------------------|-----------------------|--------|--------|----------|---------------|--------------|----------------|--------|---------|----------------------------|--------|-----------------------|------------------------|--------|-------|----------|----------------|---------------|-----------------|---------|----------------------------|------|------|-----------|--------------|--------------------------|----------------------------|------------------------|---------------------|----------------------|-----------------------|
| | | | | | Dirac. | Force. | | | | | Form. | Amount. | Height of Base (feet) (14) | Dirac. | | | Force. | Form. | | | | | Amount. | Height of Base (feet) (28) | Low. | Med. | | High. | 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 | 1033.4 | +6 | WSW | 1 | bc | 35 | 82 | 3 | 10 | 10 | 2000 | 1034.1 | +2 | WSW | 2 | bc | 35 | 82 | 3 | 5 | 9 | 9 | 2500 | 3 | 36 | 34 | 25 | Tr | Tr | 0.0 | | |
| | Croydon | 217 | 1034.0 | +6 | W | 1 | bc | 34 | 82 | 3 | 10 | 10 | 1800 | 1033.6 | 0 | W | 1 | bc | 35 | 82 | 3 | 5 | 10 | 10 | 1300 | 1 | 37 | 33 | 27 | Tr | Tr | 2.8 | | |
| | S. Farnborough | 226 | 1034.0 | +6 | W | 1 | bc | 33 | 85 | 3 | 9 | 9 | 1800 | 1034.7 | 0 | W | 1 | bc | 35 | 82 | 4 | 5 | 10 | 10 | 4000 | 3 | 38 | 30 | 21 | Tr | Tr | 3.7 | | |
| | Boscombe Down | 417 | 1034.7 | +8 | NW | 1 | bc | 31 | 97 | 3 | 0 | 4 | 6 | 1034.9 | 0 | NNW | 1 | bc | 33 | 97 | 2 | 5 | 9 | 9 | 4500 | 1 | 37 | 28 | 24 | Tr | Tr | 6.1 | | |
| | Thorney Island | 10 | 1033.7 | +4 | NW | 1 | bc | 36 | 85 | 5 | 10 | 10 | 10 | 1033.8 | 0 | N | 1 | bc | 37 | 85 | 4 | 5 | 9 | 9 | 4100 | 0 | 40 | 31 | 23 | Tr | Tr | * | | |
| | Lympne | 346 | 1032.1 | +2 | NW | 3 | bc | 35 | 97 | 2 | 5 | 7 | 8 | 3200 | 1032.8 | +4 | NNW | 2 | bc | 34 | 97 | 1 | 5 | 10 | 10 | 1150 | 3 | 35 | 33 | 30 | Tr | Tr | 4.7 | |
| Manston | 154 | 1032.2 | +6 | NW | 3 | bc | 37 | 92 | 2 | 5 | 7 | 8 | 2000 | 1033.0 | +4 | NNW | 2 | bc | 35 | 97 | 0 | 5 | 10 | 10 | 300 | 3 | 36 | 35 | 30 | Tr | Tr | 3.4 | | |
| 2 | Shoeburyness | 11 | 1032.5 | +8 | N | 2 | bc | 36 | 92 | 3 | 5 | 10 | 2500 | 1033.5 | +4 | NW | 3 | bc | 34 | 97 | 2 | 5 | 10 | 10 | 1150 | 1 | 38 | 32 | 28 | Tr | Tr | 2.9 | | |
| | Felixstowe | 15 | 1032.4 | +8 | NNW | 2 | bc | 35 | 97 | 1 | 5 | 9 | 2500 | 1033.0 | +2 | NW | 3 | bc | 34 | 97 | 1 | 5 | 10 | 10 | 1150 | 1 | 37 | 33 | 30 | 0.6 | Tr | Tr | * | |
| | Gorleston | 5 | 1031.8 | +10 | NW | 2 | bc | 33 | 97 | 6 | 5 | 4 | 6 | 1500 | 1032.4 | +4 | WNW | 2 | bc | 31 | 97 | 1 | 5 | 4 | 6 | 200 | 3 | 37 | 31 | 29 | Tr | Tr | * | |
| | Mildenhall | 19 | 1032.9 | +6 | WNW | 2 | bc | 35 | 97 | 2 | 5 | 10 | 2500 | 1033.4 | +4 | W | 1 | bc | 31 | 97 | 1 | 5 | 10 | 10 | 1150 | 3 | 34 | 30 | 20 | Tr | Tr | 1.0 | | |
| | Cranwell | 240 | 1033.6 | +6 | NW | 3 | bc | 37 | 92 | 3 | 5 | 9 | 3000 | 1033.5 | -2 | WNW | 2 | bc | 36 | 92 | 3 | 5 | 4 | 6 | 3000 | 1 | 38 | 35 | 33 | 0.1 | Tr | Tr | 1.1 | |
| 3 | Birmingham | 535 | 1034.1 | +6 | NW | 3 | bc | 34 | 97 | 2 | 5 | 9 | 4000 | 1034.3 | -2 | NW | 2 | bc | 36 | 92 | 2 | 5 | 10 | 10 | 800 | 1 | 37 | 34 | 31 | Tr | Tr | 2.9 | | |
| | Upper Heyford | 408 | 1034.1 | +6 | NW | 3 | bc | 34 | 97 | 2 | 5 | 9 | 4000 | 1034.2 | 0 | NNW | 2 | bc | 35 | 97 | 3 | 5 | 10 | 10 | 3100 | 3 | 35 | 33 | * | Tr | Tr | * | | |
| 4 | Ross-on-Wye | 223 | 1035.0 | 0 | SW | 1 | bc | 28 | 97 | 3 | 5 | 4 | 6 | 1035.0 | 0 | SW | 1 | bc | 28 | 97 | 3 | 5 | 4 | 6 | 3000 | 3 | 38 | 27 | 20 | Tr | Tr | 3.2 | | |
| 5 | Hartland Point | 299 | 1034.8 | +6 | ENE | 2 | bc | 39 | 75 | 8 | 0 | 0 | 1034.5 | 0 | ENE | 2 | bc | 36 | 75 | 8 | 5 | 0 | 0 | 1 | 3 | 40 | 34 | 30 | Tr | Tr | 6.9 | | | |
| | Bristol | 209 | 1035.0 | 0 | W | 1 | bc | 34 | 92 | 4 | 5 | Tr | 4000 | 1035.1 | -4 | NE | 1 | bc | 32 | 97 | 4 | 5 | 3 | 9 | 3500 | 3 | 37 | 26 | 18 | Tr | Tr | 1.2 | | |
| | Portland Bill | 32 | 1034.1 | +2 | NNE | 1 | bc | 36 | 92 | 7 | 2 | 9 | 4000 | 1033.9 | -4 | NE | 2 | bc | 39 | 92 | 7 | 5 | 7 | 8 | 4000 | 1 | 42 | 32 | 20 | Tr | Tr | 6.9 | | |
| | Plymouth | 82 | 1035.5 | +6 | E | 1 | bc | 36 | 92 | 4 | 5 | 0 | 0 | 1035.5 | +2 | ENE | 1 | bc | 28 | 97 | 4 | 5 | 2 | 3 | 5000 | 0 | 44 | 28 | 20 | Tr | Tr | 6.9 | | |
| | The Lizard | 240 | 1034.2 | +6 | NE | 2 | bc | 40 | 85 | 8 | 5 | 4 | 6 | 2000 | 1034.4 | -4 | ENE | 2 | bc | 37 | 85 | 8 | 4 | 2 | 3 | 2500 | 0 | 45 | 36 | * | Tr | Tr | 0.2 | |
| | Scilly (St. Mary's) | 163 | 1034.3 | +10 | SE | 2 | bc | 43 | 75 | 8 | 5 | 4 | 6 | 1500 | 1034.0 | -2 | SSE | 3 | bc | 43 | 75 | 8 | 5 | 4 | 6 | 1500 | 1 | 45 | 41 | * | Tr | Tr | 0.0 | |
| | Guernsey | 175 | 1035.2 | +4 | ENE | 2 | bc | 37 | 97 | 7 | 5 | 0 | 0 | 1035.2 | 0 | ENE | 2 | bc | 35 | 97 | 7 | 5 | 0 | 0 | 0 | 2 | 41 | 30 | * | Tr | Tr | 5.5 | | |
| 6 | Pembroke | 142 | 1035.2 | +4 | ENE | 2 | bc | 37 | 97 | 7 | 5 | 0 | 0 | 1035.2 | 0 | ENE | 2 | bc | 35 | 97 | 7 | 5 | 0 | 0 | 0 | 2 | 41 | 30 | * | Tr | Tr | 5.5 | | |
| | Holyhead (Valley) | 26 | 1034.6 | 0 | 0 | 0 | bc | 41 | 92 | 4 | 5 | 9 | 2100 | 1034.3 | -2 | 0 | 0 | bc | 33 | 97 | 5 | 5 | 1 | 1 | 2500 | 1 | 41 | 32 | 28 | Tr | Tr | * | | |
| 7 | Chester (Sealand) | 16 | 1034.8 | +6 | 0 | 0 | bc | 29 | 97 | 1 | 5 | 4 | 6 | 5000 | 1034.8 | -2 | 0 | 0 | bc | 32 | 97 | 0 | 1 | 1 | 10 | 10 | 1150 | 1 | 39 | 29 | 25 | Tr | Tr | 0.0 |
| 8 | Manchester | 235 | 1035.2 | +4 | 0 | 0 | bc | 29 | 97 | 1 | 5 | 9 | 5700 | 1035.4 | +2 | 0 | 0 | bc | 28 | 97 | 0 | 1 | 1 | 10 | 10 | 1150 | 3 | 33 | 28 | 23 | Tr | Tr | 0.0 | |
| 10 | Spurn Head | 29 | 1032.9 | +6 | NW | 3 | bc | 39 | 92 | 5 | 3 | 2 | 3 | 4000 | 1032.9 | 0 | WNW | 3 | bc | 38 | 85 | 5 | 1 | 4 | 4 | 4000 | 1 | 41 | 37 | 0.2 | 0.2 | 0.6 | | |
| | Catterick | 175 | 1034.1 | +6 | WNW | 2 | bc | 40 | 85 | 5 | 5 | 10 | 2700 | 1033.8 | +2 | NW | 1 | bc | 39 | 85 | 4 | 5 | Tr | Tr | 3000 | 1 | 43 | 37 | 31 | 0.1 | 7 | 0.2 | | |
| | Tynemouth | 108 | 1033.1 | +6 | WNW | 4 | bc | 40 | 85 | 6 | 2 | 9 | 2500 | 1033.2 | -2 | WNW | 4 | bc | 39 | 92 | 6 | 2 | 9 | 9 | 2500 | 1 | 41 | 39 | 36 | Tr | Tr | * | | |
| 11 | St. Abbs Head | 280 | 1032.7 | +4 | WNW | 2 | bc | 43 | 85 | 6 | 5 | 2 | 7 | 2500 | 1032.1 | -2 | WNW | 3 | bc | 43 | 85 | 7 | 4 | 4 | 2 | 2 | 2500 | 0 | 43 | 41 | * | Tr | Tr | 0.0 |
| | Leuchars | 36 | 1032.7 | -2 | W | 2 | bc | 37 | 92 | 7 | 3 | 0 | 9 | 1032.8 | +2 | WSW | 2 | bc | 34 | 97 | 8 | 5 | 1 | 4 | 4000 | 3 | 44 | 34 | 29 | 0.3 | Tr | Tr | 0.0 | |
| 12 | Renfrew (Abbots I.) | 19 | 1034.0 | -2 | W'S | 1 | bc | 34 | 97 | 5 | 0 | 0 | 1034.2 | +2 | 0 | 0 | bc | 31 | 97 | 1 | 5 | 10 | 10 | 1150 | 3 | 45 | 27 | 21 | Tr | Tr | 2.3 | | | |
| | Eskdalemuir | 794 | 1034.0 | -2 | W'S | 1 | bc | 34 | 97 | 5 | 0 | 0 | 1034.2 | +2 | 0 | 0 | bc | 31 | 97 | 1 | 5 | 10 | 10 | 1150 | 3 | 45 | 27 | 21 | Tr | Tr | 2.3 | | | |
| | Point of Ayre | 30 | 1034.6 | +4 | W'S | 1 | bc | 38 | 92 | 6 | 2 | 7 | 8 | 1500 | 1035.1 | +2 | W'S | 1 | bc | 41 | 92 | 7 | 5 | 9 | 9 | 2000 | 0 | 45 | 37 | * | Tr | Tr | 1.5 | |
| 13A | Tiree | 22 | 1032.6 | 0 | 0 | 0 | bc | 37 | 92 | 8 | 2 | 4 | 6 | 3500 | 1032.2 | 0 | S | 2 | bc | 40 | 92 | 8 | 5 | 7 | 8 | 3500 | 0 | 46 | 35 | * | Tr | Tr | 5.6 | |
| | Stornoway | 80 | 1031.8 | +2 | SSW | 3 | bc | 44 | 92 | 8 | 5 | 3 | 2 | 1000 | 1030.8 | -2 | SSW | 3 | bc | 45 | 85 | 7 | 5 | 7 | 7 | 1000 | 1 | 46 | 41 | * | Tr | Tr | 2.8 | |
| 15 | Dalwhinnie | 1176 | 1031.8 | +2 | SSW | 3 | bc | 44 | 92 | 8 | 5 | 3 | 2 | 1000 | 1030.8 | -2 | SSW | 3 | bc | 45 | 85 | 7 | 5 | 7 | 7 | 1000 | 1 | 46 | 41 | * | Tr | Tr | 2.8 | |
| | Aberdeen | 79 | 1030.8 | -6 | WNW | 1 | bc | 41 | 85 | 8 | 5 | 9 | 5700 | 1031.4 | -2 | SW | 2 | bc | 38 | 75 | 7 | 5 | 2 | 7 | 1500 | 1 | 39 | 33 | 28 | 0.1 | Tr | Tr | 0.0 | |
| 16 | Wick | 119 | 1030.8 | -6 | WNW | 1 | bc | 42 | 85 | 8 | 5 | 9 | 5700 | 1030.1 | -2 | WSW | 4 | bc | 42 | 85 | 6 | 5 | 10 | 10 | 1500 | 1 | 41 | 37 | 33 | 0.5 | 0.2 | 0.0 | | |
| | Sumburgh | 30 | 1028.3 | -4 | NW | 3 | bc | 45 | 97 | 8 | 5 | 7 | 8 | 1500 | 1027.1 | -6 | NW | 3 | bc | 47 | 85 | 8 | 5 | 10 | 10 | 3500 | 1 | 43 | 43 | 39 | Tr | Tr | 1.8 | |
| 17 | Blacksod Point | 18 | 1033.5 | 0 | SE'S | 3 | bc | 44 | 85 | 7 | 7 | 0 | 10 | 1032.4 | -4 | SE | 3 | bc | 45 | 85 | 7 | 1 | 1 | 0 | 10 | 0 | 3 | 45 | 43 | * | Tr | Tr | * | |
| | Mahn Head | 84 | 1034.4 | -4 | SW | 2 | bc | 36 | 85 | 8 | 0 | 0 | 0 | 1033.9 | -2 | S | 1 | bc | 34 | 92 | 8 | 8 | 4 | 6 | 4000 | 0 | 42 | 31 | * | Tr | Tr | 0.0 | | |
| 18 | Aldergrove | 268 | 1036.0 | 0 | 0 | 0 | bc | 24 | 97 | 2 | 0 | 0 | 0 | 1035.6 | -2 | 0 | 0 | bc | 25 | 97 | 0 | 1 | 1 | 10 | 10 | 1150 | 5 | 32 | 21 | 19 | | | | |



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION
Wednesday 31st December 1941.
No. 29259

OBSERVATIONS at 13h. G.M.T. 30th December. OBSERVATIONS at 18h. G.M.T. 30th December.

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. | Sea.
0-9 | WEATHER. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|--|---|---|---------------------------------|--|--|--|---------------------------------|---------------------------------|-------------------------------------|-------------------------------------|--|--|---|---------------------------------|--|--|--|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--|--|--|---|---------------------------------|--|--|--|---------------------------------|---------------------------------|---------------------------------|----------------------------------|--|--|---|--|---|---|--|--|---|---|---|---|---|--|--|---|---|---|--|--|--|--|--|--|--|--|---|--|---|--|--|---|---|---|---|
| | | | | Dirac. | Force. | | | | | Form. | Amount. | Height
of
Base
(feet). | Dirac. | | | Force. | Form. | | | | | Amount. | Height
of
Base
(feet). | 7h.-13h.
30th | 13h.-18h.
30th | | | 18h. to
30th
31st | 1h.-7h.
31st | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Low. | Med. | High. | Low. | Med. | High. | Low. | Med. | High. | Low. | Med. | High. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | London (Kew) ...
Croydon ...
S. Farnborough ...
Boscombe Down ...
Thorney Island ...
Lympe ...
Manston ... | 1034.7
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37 | 92
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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.
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, 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 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 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; Altostratus, -As; Stratocumulus, -Sc; Stratus, -St; Nimbostratus, -Ns; Cumulus, -Cu; Cumulonimbus, -Cb. | 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).
COLUMN 29—STATE OF GROUND.
0 .. Ground dry.
1 wet.
2 flooded.
3 frozen hard and dry.
4 partly covered with snow or hail.
5 covered with ice or glazed frost.
6 covered with thawing snow.
7 .. Ground covered with snow, less than 6 ins., deep but ground not frozen.
8 covered with snow, less than 6 ins., but ground frozen.
9 covered with snow greater than 6 ins. deep.
Fresh snow has fallen in the mountains. |
|---|---|--|---|

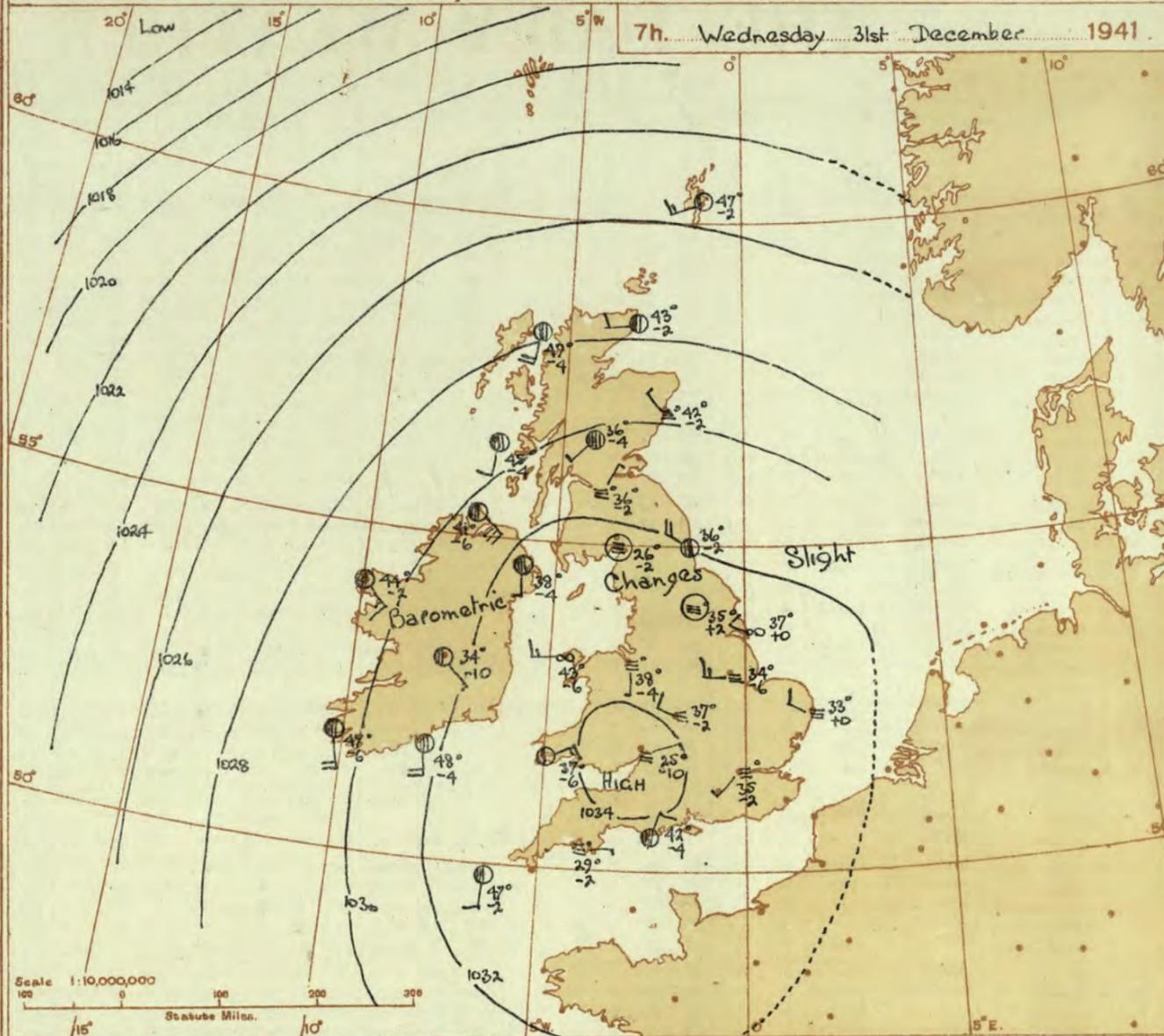
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

| 13h. G.M.T. 30th Dec. | | | | 18h. G.M.T. | | | | 01h. G.M.T. 31st Dec. | | | | 07h. G.M.T. | | | | | |
|-----------------------|----------------|-------|-----------------|-------------|----------------|-------|-----------------|-----------------------|----------------|-------|-----------------|-------------|----------------|----|-----------------|-------|--|
| III | C _u | ww | Vh _N | DDFWN | C _u | ww | Vh _N | DDFWN | C _u | ww | Vh _N | DDFWN | C _u | ww | Vh _N | DDFWN | |
| 109 | 8- | 25847 | 25467 | 5- | 52658 | 24368 | 5- | 02757 | 23427 | 5- | 51758 | 22428 | | | | | |
| 115 | 01 | 01344 | 20427 | | | | | 55 | 02844 | 20427 | 52 | 02834 | 20487 | | | | |
| 203 | | | | 5- | 03838 | 20528 | | | | | 5- | 03838 | 20528 | | | | |
| 206 | 8- | 02867 | 22267 | 5- | 02867 | 22227 | 5- | 02868 | 22228 | 5- | 02868 | 22228 | | | | | |
| 210 | 5- | 02866 | 20326 | 57 | 02864 | 20327 | 57 | 02764 | 20328 | 5- | 02768 | 22228 | | | | | |
| 220 | | | | 52 | 02645 | 20428 | | | | | 52 | 02645 | 21328 | | | | |
| 230 | 57 | 51955 | 00028 | 57 | 51647 | 20358 | 5- | 05658 | 20128 | 5- | 02758 | 00028 | | | | | |
| 245 | 50 | 01764 | 24215 | 5- | 05678 | 24328 | 53 | 05661 | 24226 | 5- | 03778 | 24218 | | | | | |
| 260 | 00 | 43290 | 30161 | 5- | 08468 | 22128 | 53 | 05562 | 22147 | 57 | 05666 | 24127 | | | | | |
| 273 | 07 | 05790 | 26242 | 03 | 05690 | 22214 | 5- | 05665 | 20215 | 5- | 05668 | 22228 | | | | | |
| 279 | 9- | 08456 | 08146 | -- | 46109 | 00040 | -- | 48109 | 00043 | -- | 44300 | 08140 | | | | | |
| 285 | 23 | 05634 | 30415 | 23 | 05635 | 28316 | 5- | 08458 | 12228 | 50 | 01744 | 30314 | | | | | |
| 288 | 00 | 05690 | 19114 | 00 | 45300 | 20140 | 5- | 05567 | 20127 | 57 | 08465 | 19226 | | | | | |
| 295 | -- | 46109 | 00049 | 5- | 08447 | 10147 | | | | 5- | 02758 | 12228 | | | | | |
| 301 | 5- | 15167 | 00047 | 5- | 45165 | 12146 | 5- | 45058 | 12148 | 53 | 05653 | 28147 | | | | | |
| 321 | 07 | 41490 | 28145 | 00 | 45290 | 26143 | 00 | 43290 | 23241 | 5- | 47368 | 24248 | | | | | |
| 299 | | | | 50 | 05651 | 31201 | 5- | 01754 | 25214 | 5- | 05658 | 25228 | | | | | |
| 292 | 00 | 26226 | 33841 | 00 | 05690 | 27116 | 5- | 05563 | 28328 | 57 | 05665 | 28147 | | | | | |
| 310 | -- | 46209 | 24229 | -- | 01634 | 24344 | | | | -- | 48209 | 26219 | | | | | |
| 314 | 05 | 05690 | 28247 | 00 | 47290 | 26112 | 5- | 43078 | 24248 | 5- | 45268 | 24148 | | | | | |
| 333 | 7- | 01554 | 20114 | 00 | 08490 | 00004 | 5- | 47358 | 00018 | 5- | 51668 | 00058 | | | | | |
| 334 | -- | 46109 | 00014 | -- | 04447 | 30217 | | | | -- | 02664 | 00015 | | | | | |
| 340 | 5- | 05548 | 01148 | 5- | 45358 | 26148 | 5- | 05558 | 16148 | 5- | 05668 | 00028 | | | | | |
| 136 | 5- | 43267 | 25247 | 5- | 45268 | 24248 | -- | 48109 | 24149 | 5- | 47368 | 22248 | | | | | |
| 336 | -- | 46209 | 04249 | -- | 46109 | 08249 | | | | -- | 46209 | 04349 | | | | | |
| 350 | 07 | 08490 | 20143 | 5- | 47267 | 26247 | -- | 46009 | 24249 | 5- | 03268 | 20248 | | | | | |
| 368 | 00 | 05690 | 00000 | 00 | 47390 | 00000 | 00 | 47290 | 32140 | -- | 46009 | 00049 | | | | | |
| 370 | 5- | 05657 | 30127 | 03 | 08490 | 28125 | 00 | 05590 | 32220 | 5- | 05558 | 32328 | | | | | |
| 390 | 03 | 47290 | 26244 | 5- | 45258 | 27248 | 5- | 45267 | 26247 | 5- | 43368 | 24248 | | | | | |
| 282 | 5- | 41458 | 26248 | 5- | 45368 | 00048 | 00 | 45000 | 00040 | 5- | 08458 | 00048 | | | | | |
| 438 | 50 | 04401 | 32141 | 03 | 08490 | 32213 | 5- | 05568 | 30218 | 5- | 05568 | 32327 | | | | | |
| 430 | 53 | 08461 | 30223 | 03 | 08490 | 32213 | 5- | 05568 | 30218 | 5- | 05568 | 00028 | | | | | |
| 409 | 00 | 05790 | 16100 | 50 | 05661 | 06101 | 00 | 05790 | 07200 | 50 | 01763 | 03313 | | | | | |

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_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C, C_u - Form of low and medium cloud—See page 1.
V - Visibility. F - Force of wind—See page 4.
DD - Direction of wind (E, 16 - S, 24 - W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS. FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wed. 31st December 1941

| | |
|---------------------------------|--|
| 1 S.E. England | Calm to light variable breeze; much fog and mist, partially clearing in rural areas but persisting in or near large towns and industrial areas with thick or dense patches. Cold with frost morning and night. |
| 2 E. England ... | |
| 3 E. Midlands ... | |
| 4 W. Midlands ... | |
| 5 S.W. England | Light variable to southerly breeze; fair apart from a little local fog; rather cold; frost at night inland. |
| 6 South Wales ... | |
| 7 North Wales ... | As 1-4. |
| 8 N.W. England | |
| 9 N. Midlands ... | |
| 10 N.E. England | Light to moderate west to southwest winds; fair but mainly cloudy; rather mild in most areas. |
| 11 S.E. Scotland | |
| 12 S.W. Scotland & Isle of Man. | |
| 13 A. W. Scotland | |
| 13 B. N.W. Scotland | Moderate southwest winds; cloudy; some occasional slight drizzle; mild. |
| 14 Mid Scotland | |
| 15 N. E. Scotland | Light or moderate south wind; fresh locally; cloudy, rather mild. |
| 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—

 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 covers the British Isles. Weather will be foggy in many parts of England and East Wales although the fog will partially clear in rural areas during the day. In Scotland and Ireland weather will be mainly cloudy but dry. Conditions will be mild in Scotland but frost will persist in foggy areas.

FURTHER OUTLOOK.

Cold and rather foggy over most of England. Probably some rain later in West Ireland.

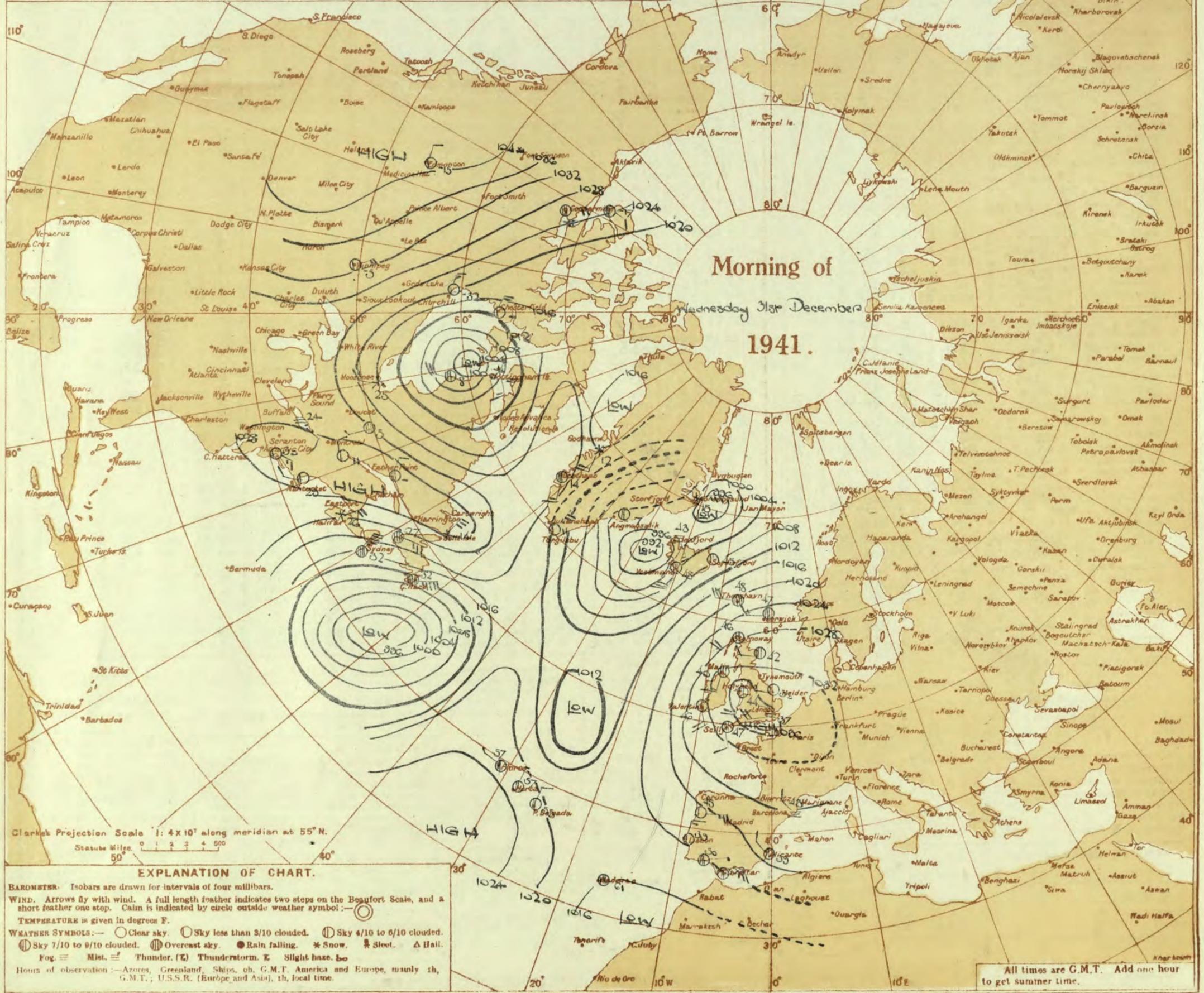
Forecasts issued at 10.30h.
H.M.S.O. Press, Meteorological Office, Dunstable.

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
Wednesday 31st December 1941.
No. 22259

| OBSERVATIONS at 1 hr. G.M.T. 31st December | | | | | | | | | | | | | | | OBSERVATIONS at 7 hr. G.M.T. 31st December | | | | | | | | | | | | | | | PAST 24 HOURS. | | | | | | | | |
|--|---------------------|------------------------------|----------------------|--------------------|-------|--------|----------|-----------|----------|-------------|--------|---------|------------------------|------|--|--------------------|--------|-------|----------|-----------|----------|-------------|---------|------------------------|---------------------|-----------------------|------------------|---------|-------------------|----------------|------------------|-----------|------|------------|------|-------|------|------|
| DISTRICT. | STATIONS. | Height above M.S.L. in feet. | Barom. at M.S.L. (1) | Change in 8 hours. | Wind. | | Weather. | Temp. °F. | Humid. % | Visibility. | Cloud. | | | | Barom. at M.S.L. (15) | Change in 8 hours. | Wind. | | Weather. | Temp. °F. | Humid. % | Visibility. | Cloud. | | | | State of Ground. | Sea. | TEMPERATURE. | | | RAINFALL. | | SEA-SWELL. | | | | |
| | | | | | 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. | 30th Hrs. | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Low. | | Med. | High. | Low. | Med. |
| 1 | London (Kew) | 18 | * | * | * | * | 38 | * | * | * | * | * | 1033.7 | -2 | SW | 1 | bc | 37 | 97 | 3 | 5 | - | - | 10 | 10 | 4000 | 1 | * | 39 | 36 | 31 | - | - | 0.0 | | | | |
| | Croydon | 217 | 1034.0 | -2 | W'S | 1 | bc | 37 | 97 | 3 | 5 | - | - | 10 | 10 | 1800 | 1033.5 | -2 | SW | 1 | bc | 35 | 97 | 3 | 5 | - | - | 10 | 10 | 6000 | 1 | * | 39 | 35 | 33 | - | - | 0.0 |
| | S. Farnborough | 226 | 1034.8 | -2 | WNW | 1 | bc | 37 | 97 | 3 | 5 | - | - | 10 | 10 | 4500 | 1034.0 | -4 | W'S | 1 | bc | 35 | 97 | 4 | 5 | - | - | 10 | 10 | 3800 | 1 | * | 42 | 35 | 32 | - | - | 2.1 |
| | Boscombe Down | 417 | 1035.3 | -2 | NW | 1 | bc | 36 | 97 | 3 | 5 | - | - | 10 | 10 | 3000 | 1034.7 | 0 | N | 1 | bc | 32 | 97 | 4 | 5 | - | - | 1 | 1 | 500 | 1 | * | 38 | 32 | 23 | - | - | 0.0 |
| | Thorney Island | 10 | 1034.5 | -4 | NW | 1 | bc | 38 | 92 | 5 | 5 | - | - | 10 | 10 | 3800 | 1033.7 | -4 | N | 1 | bc | 38 | 92 | 5 | 5 | - | - | 10 | 10 | 4300 | 1 | * | 45 | 32 | 23 | - | - | * |
| | Lymington | 346 | 1033.2 | -4 | NW | 1 | bc | 36 | 97 | 2 | 5 | - | - | 10 | 10 | 5500 | 1033.0 | +2 | NW | 2 | bc | 37 | 92 | 3 | 5 | - | - | 10 | 10 | 5500 | 1 | 5 | 38 | 35 | 31 | - | - | 0.0 |
| | Manston | 154 | 1033.1 | -2 | NW | 3 | bc | 38 | 92 | 2 | 5 | - | - | 10 | 10 | 3500 | 1033.1 | 0 | NW | 2 | bc | 37 | 92 | 5 | 5 | - | - | 10 | 10 | 5300 | 1 | 5 | 37 | 34 | 30 | 0.4 | - | 0.0 |
| 2 | Shoeburyness | 11 | 1033.6 | -2 | N | 1 | bc | 38 | 85 | 2 | 5 | - | - | 7-8 | 10 | 7200 | 1033.3 | 0 | WN | 2 | bc | 35 | 92 | 3 | 5 | - | - | 10 | 10 | 4000 | 1 | * | 40 | 33 | 29 | - | - | 0.3 |
| | Felixstowe | 15 | 1033.4 | -2 | NW | 3 | bc | 37 | 92 | 3 | 5 | - | - | 9+ | 9+ | 4500 | 1032.1 | -10 | NW | 3 | bc | 34 | 97 | 2 | - | - | 10 | 10 | 1150 | 1 | 2 | 40 | 32 | 30 | - | - | 0.0 | |
| | Gorleston | 5 | 1032.6 | 0 | WNW | 2 | bc | 35 | 92 | 2 | 5 | - | - | 10 | 10 | 1150 | 1032.6 | 0 | NW | 2 | bc | 33 | 97 | 2 | - | - | 10 | 10 | 1150 | 1 | 5 | 38 | 30 | 29 | - | - | * | |
| | Mildenhall | 19 | 1033.8 | -2 | SW | 2 | bc | 31 | 97 | 2 | 5 | - | - | 0 | 0 | 0 | 1032.9 | 0 | SW | 2 | bc | 32 | 97 | 2 | - | - | 10 | 10 | 1150 | 1 | 3 | 38 | 29 | 20 | Tr | Tr | 0.0 | |
| | Cranwell | 240 | 1033.7 | -4 | W'S | 3 | bc | 31 | 97 | 1 | 5 | - | - | 0 | 0 | 0 | 1032.6 | -6 | W | 3 | bc | 34 | 97 | 3 | 5 | - | - | 10 | 10 | 3000 | 1 | * | 46 | 28 | 25 | - | - | 0.1 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1033.3 | -2 | WNW | 2 | bc | 37 | 85 | 3 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | 40 | 34 | 23 | - | - | 0.1 |
| | Upper Heyford | 408 | 1034.9 | +2 | * | 0 | bc | 29 | 97 | 0 | - | - | - | 0 | 0 | 0 | 1034.1 | -2 | - | 0 | bc | 32 | 97 | 3 | 5 | - | - | 10 | 10 | 3300 | 1 | * | 40 | 27 | 27 | - | - | * |
| | Ross-on-Wye | 223 | 1034.1 | -10 | ENE | 1 | bc | 25 | 97 | 3 | 5 | - | - | 9 | 9 | 2500 | 1034.1 | -2 | ENE | 1 | bc | 25 | 97 | 3 | 5 | - | - | 9 | 9 | 2500 | 1 | 5 | 36 | 25 | 22 | - | - | 0.1 |
| 5 | Hartland Point | 299 | 1034.2 | -6 | NE | 2 | bc | 37 | 85 | 7 | - | - | - | 0 | 0 | - | 1033.4 | -4 | ENE | 2 | bc | 39 | 75 | 7 | - | - | 0 | 2-3 | - | 1 | 2 | 45 | 35 | 30 | - | - | 6.8 | |
| | Bristol | 209 | 1035.6 | -2 | 1 | 0 | bc | 30 | 97 | 1 | - | - | - | 0 | 0 | - | 1034.9 | +2 | - | 0 | bc | 27 | 97 | 1 | - | - | 10 | 10 | 1150 | 1 | * | 42 | 26 | 22 | - | - | 2.0 | |
| | Portland Bill | 32 | 1033.9 | -4 | NNE | 1 | bc | 42 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 1034.7 | -4 | NNE | 2 | bc | 42 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 3 | 44 | 38 | * | - | - | * |
| | Plymouth | 82 | 1035.1 | -6 | 1 | 0 | bc | 29 | 97 | 3 | 5 | - | - | 0 | 0 | - | 1034.4 | -2 | SE | 1 | bc | 29 | 97 | 4 | 5 | - | - | 0 | 0 | - | 0 | 2 | 46 | 27 | 20 | - | - | 5.6 |
| | The Lizard | 240 | 1033.9 | -6 | NE | 3 | bc | 45 | 75 | 7 | 8 | - | - | 7-8 | 10 | 1500 | 1033.3 | -2 | SE | 3 | bc | 46 | 65 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | 3 | 48 | 41 | - | - | 1.6 | |
| | Scilly (St. Mary's) | 163 | 1033.5 | -8 | NE | 2 | bc | 47 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 | 1032.5 | -2 | S | 2 | bc | 47 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 | 48 | 43 | * | - | - | 1.2 |
| | Guernsey | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 6 | Pembroke | 142 | 1034.6 | -12 | NNE | 2 | bc | 37 | 97 | 5 | 2 | - | - | 1 | 1 | 1500 | 1033.7 | -6 | ENE | 3 | bc | 37 | 97 | 5 | 2 | - | - | 2-3-3 | 4000 | 1 | 2 | 42 | 33 | * | - | - | 6.1 | |
| | Holyhead (Valley) | 26 | 1036.6 | -2 | SW | 4 | bc | 44 | 92 | 6 | - | - | - | 10 | 10 | 2900 | 1033.7 | -6 | E | 3 | bc | 43 | 92 | 6 | 5 | - | - | 10 | 10 | 1600 | 1 | 3 | 45 | 38 | 35 | - | - | * |
| | Chester (Sealand) | 16 | 1034.1 | -4 | SE/E | 1 | bc | 38 | 85 | 2 | 5 | - | - | 10 | 10 | 2900 | 1033.3 | -4 | S | 1 | bc | 38 | 92 | 4 | 5 | - | - | 10 | 10 | 3300 | 1 | * | 37 | 36 | 33 | - | - | 0.0 |
| | Manchester | 235 | 1034.3 | -4 | 1 | 0 | bc | 35 | 97 | 2 | 5 | - | - | 10 | 10 | 2500 | 1033.8 | -2 | 1 | 0 | bc | 36 | 97 | 4 | 5 | - | - | 10 | 10 | 3000 | 1 | * | 35 | 33 | 33 | - | - | * |
| 10 | Spurn Head | 29 | 1032.6 | -4 | WNW | 3 | bc | 36 | 97 | 5 | - | - | - | 0 | 0 | - | 1032.0 | 0 | NW | 3 | bc | 37 | 97 | 5 | 2 | - | - | 0 | 0 | - | 1 | 2 | 41 | 35 | * | - | - | 0.0 |
| | Catterick | 175 | 1032.8 | -8 | WN | 3 | bc | 37 | 85 | 3 | 3 | - | - | 0 | 9+ | - | 1032.7 | +2 | 1 | 0 | bc | 35 | 85 | 4 | 5 | - | - | 1 | 2-3 | 2500 | 1 | 3 | 44 | 34 | 23 | - | - | 3.2 |
| | Tynemouth | 108 | 1032.2 | -2 | NW | 4 | bc | 38 | 85 | 6 | 8 | - | - | 9+ | 9+ | 2500 | 1031.8 | -2 | NW | 4 | bc | 36 | 85 | 6 | 8 | - | - | 9+ | 9+ | 2500 | 1 | 3 | 44 | 36 | 34 | - | - | * |
| 11 | St. Abbs Head | 280 | 1031.5 | 0 | NW | 2 | bc | 43 | 85 | 7 | 5 | 7 | - | 4-6 | 9+ | 2500 | 1030.7 | -4 | WNW | 3 | bc | 42 | 97 | 7 | 5 | 7 | - | 9 | 10 | 2500 | 0 | 2 | 43 | 42 | * | - | - | * |
| | Leuchars | 36 | 1031.0 | -6 | W | 3 | bc | 39 | 85 | 6 | 5 | 3 | - | 2-3 | 10 | 3000 | 1030.6 | -2 | WSW | 2 | bc | 37 | 92 | 6 | 5 | 7 | - | 1 | 9 | 3000 | 1 | 1 | 39 | 35 | 32 | - | - | 2.6 |
| | Renfrew (Abbots I.) | 19 | 1033.1 | 0 | WSW | 1 | bc | 34 | 97 | 3 | 5 | - | - | 10 | 10 | 4500 | 1032.2 | -2 | NNE | 1 | bc | 36 | 97 | 4 | 5 | - | - | 10 | 10 | 3000 | 1 | * | 34 | 33 | 29 | - | - | 0.6 |
| | Eskdalemuir | 794 | 1033.1 | 0 | 1 | 0 | bc | 34 | 97 | 3 | 5 | - | - | 10 | 10 | 4500 | 1033.6 | -2 | 1 | 0 | bc | 26 | 92 | 3 | 5 | - | - | 10 | 10 | 1150 | 1 | 3 | 33 | 25 | 24 | - | - | 0.3 |
| | Point of Ayre | 30 | 1033.6 | 0 | NW | 3 | bc | 42 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 1032.9 | -4 | NW | 3 | bc | 43 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 0 | 3 | 47 | 40 | * | - | - | 3.7 |
| 13A | Tiree | 22 | 1030.8 | 0 | SW | 3 | bc | 48 | 92 | 8 | 5 | - | - | 9 | 9 | 3500 | 1030.4 | -4 | SSW | 2 | bc | 45 | 92 | 8 | 5 | - | - | 9+ | 9+ | 3500 | 0 | 3 | 46 | 43 | * | - | - | 0.0 |
| | Stornoway | 80 | 1028.7 | -6 | SSW | 4 | bc | 46 | 92 | 7 | 5 | 7 | - | 7-8 | 9+ | 2000 | 1027.8 | -4 | SSW | 4 | bc | 47 | 85 | 7 | 5 | 7 | - | 7-8 | 9+ | 2000 | 1 | 2 | 47 | 44 | * | 0.3 | 0.3 | 0.0 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1030.0 | -4 | SW | 1 | bc | 36 | 92 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 38 | 36 | 34 | - | - | 0.0 |
| | Aberdeen | 79 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1029.9 | -2 | NW | 1 | bc | 42 | 85 | 4 | 5 | - | - | 10 | 10 | 2300 | 1 | * | 45 | 38 | 34 | - | - | 0.3 |
| | Wick | 119 | 1028.8 | -2 | W | 3 | bc | 43 | 85 | 8 | - | 3 | - | 0 | 9 | - | 1028.3 | -2 | W'S | 3 | bc | 43 | 85 | 8 | 5 | - | - | 9+ | 9+ | 7200 | 1 | * | 44 | 41 | 42 | 0.1 | - | 0.3 |
| | Sumburgh | 30 | 1026.3 | -6 | W | 3 | bc | 47 | 97 | 7 | 5 | 7 | - | 9 | 9+ | 1800 | 1026.2 | -2 | WSW | 3 | bc | 47 | 97 | 7 | 5 | - | - | 4-6-4-6 | 2000 | 1 | 4 | 47 | 47 | 43 | 2 | - | 0.0 | |
| 17 | Blackod Point | 18 | 1030.5 | -2 | SE | 2 | bc | 45 | 85 | 7 | - | 7 | - | 0 | 10 | - | 1029.1 | -2 | SE | 3 | bc | 44 | 92 | 7 | 4 | - | - | 4-6-4-6 | 2500 | 0 | 4 | 46 | 43 | * | - | - | * | |
| | Malin Head | 84 | 1031.6 | -4 | S | 3 | bc | 40 | 75 | 8 | 7 | - | - | 7-8 | 7-8 | 5700 | 1030.8 | -6 | SE'S | 6 | bc | 41 | 75 | 8 | 4 | - | - | 4-6-4-6 | 4000 | 0 | 2 | 42 | 34 | * | - | - | 0.0 | |
| | Aldergrove | 268 | 1033.9 | -6 | S | 1 | bc | 36 | 92 | 6 | 5 | - | - | 9+ | 9+ | 3000 | 1032.9 | -4 | S | 1 | bc | 38 | 85 | 7 | 5 | - | - | 10 | 10 | 2800 | 3 | * | 31 | 30 | 31 | - | - | 0.0 |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1031.6 | -10 | SE | 1 | bc | 34 | 97 | 8 | 5 | - | - | 0 | 2-3 | - | 1 | * | 40 | 31 | 27 | - | - | * |
| | Valentia Obsy. | 30 | 1030.8 | -6 | SE | 4 | bc | 46 | 75 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 | 1029.8 | -6 | SE | 4 | bc | 47 | 65 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 1 | 3 | 48 | 46 | 43 | - | - | * |
| | Roches Point | 22 | 1032.5 | -6 | SE | 4 | bc | 47 | 75 | 8 | 5 | - | | | | | | | | | | | | | | | | | | | | | | | | | | |