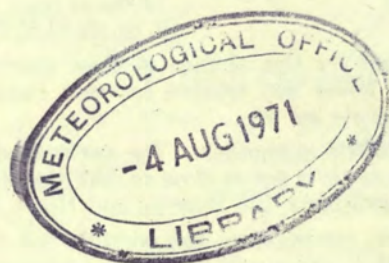


SECRET

THE DAILY WEATHER REPORT

DUPLICATE



BRITISH SECTION

1st October to 31st December

1941



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

INTRODUCTION

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

NOTES REGARDING THE BRITISH SECTION.*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THE INTERNATIONAL AND UPPER AIR SECTIONS.*

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

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

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

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

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

THE BEAUFORT SCALE OF WIND FORCE

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

GALE WARNINGS*

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

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

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

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

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

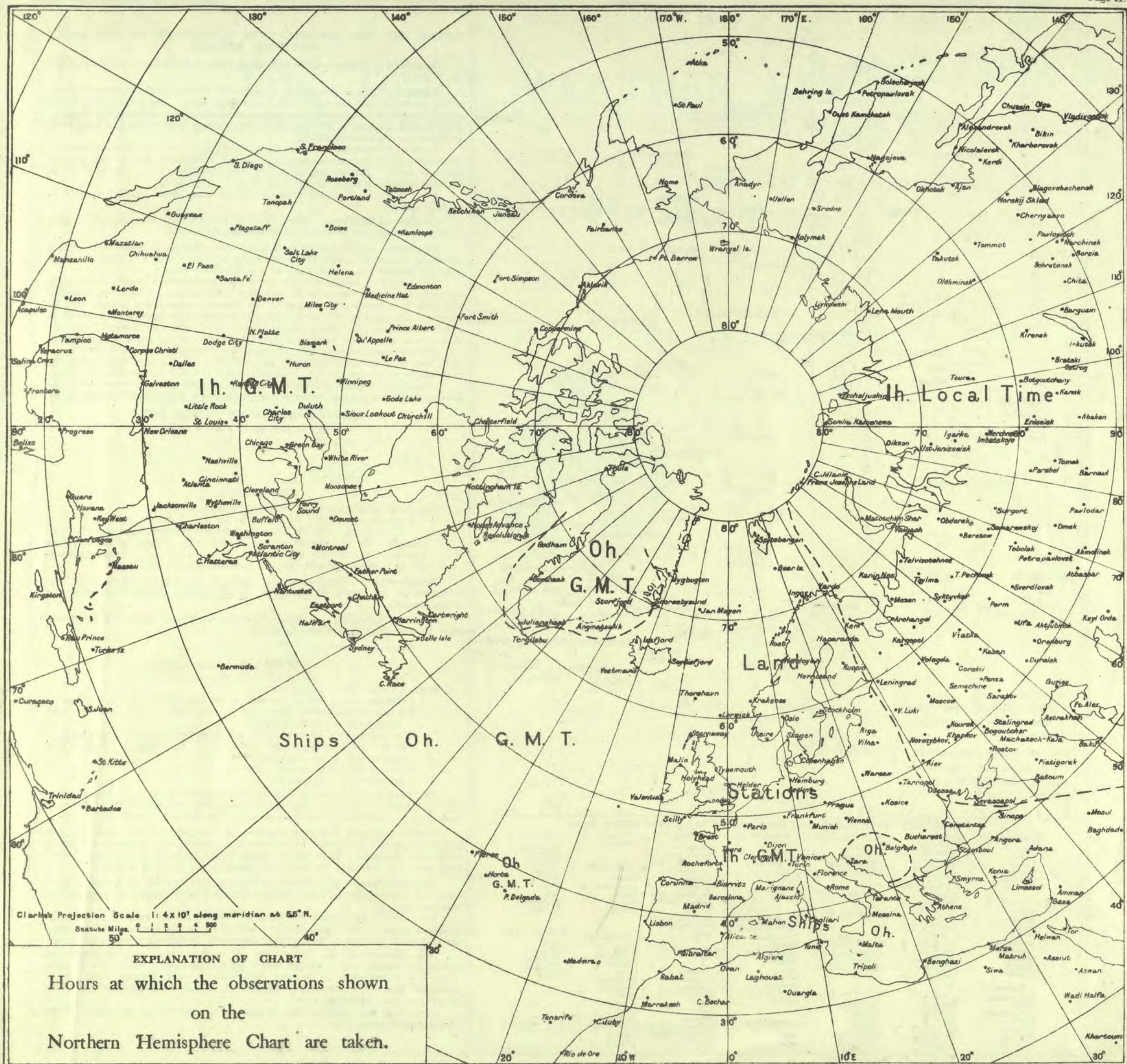
The districts to which warnings are sent are shown in the Report by the following symbols written on page 2 against the forecast districts to which they apply:—

▲ North Cone hoisted:

▼ South Cone hoisted:

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

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





FORECAST DISTRICTS and the Counties comprised within them

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

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

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

Stations.—*Kew.*—Temperature readings at Kew are taken in a large louvered screen placed against the north wall of the observatory. The thermometer bulbs are at a height of 10 feet above the ground immediately surrounding the building. This ground is raised a few feet above the general level of the Old Deer Park in which the observatory stands.

London Observations.—As from 1st January, 1934, the rainfall measurements at all the London stations where rain gauges are maintained, refer to two periods, day and night. The day period at Kew and Croydon is 7h. to 18h. G.M.T.; at all other stations it is 9h. to 18h. G.M.T.

Point of Ayre.—The first observations are made at 0030 G.M.T. instead of at 0100 G.M.T.

Heights of Stations.—The heights of British Stations above M.S.L. refer to the plot of ground on which the rain gauge is situated.

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

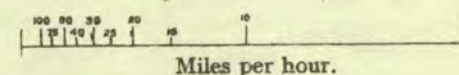
The wind at a height of 1,500–2,000 feet above ground usually blows along the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, e.g., for isobars 1 inch apart for the chart on Page 2 the speed of the upper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

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

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

GEOSTROPHIC WIND SCALE FOR

8 mb isobars on 1:4 × 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 formulae:—

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

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

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

where x is the vapour pressure in mb.

F the saturation vapour pressure at the temperature of the dry bulb; For air temperatures below 32° F. the value of F used is that appropriate to an ice surface.

f the saturation vapour pressure at the temperature of the wet bulb; For wet bulb temperatures below 32° F. the value of f used is that appropriate to an ice surface.

t the dry bulb temperature; and

f' the wet bulb temperature.

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

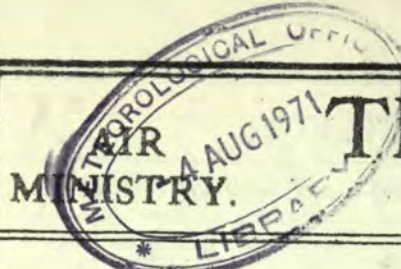
Wind.—All wind directions specified in the reports are "true," as distinguished from "magnetic." The arrows indicating wind direction are drawn to fly with the wind. Each feather denotes two steps on the Beaufort Scale; thus force 5 is indicated by two whole feathers and one half feather.

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

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

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

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



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

DUPLICATE **SECRET**
MONTHLY
SUPPLEMENT,

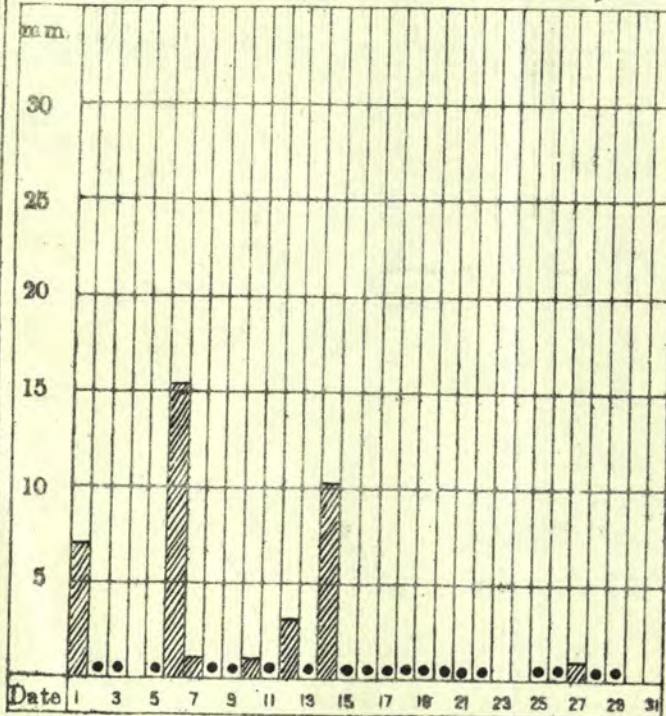
December 1941 No. 300

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 fog developed in many areas on the 18th and persisted all day on the 19th and 20th in the Southeast; conditions remained rather mild 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 Southwest. On the 26th, polar air from the North spread over most of the country except the Southwest, and there were some snow showers in Scotland and Northeast England. Small depressions moved down from Iceland and caused rain and snow in Ireland and the West of England. An anticyclone developed over the country and persisted till the end of the month 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. 7hrs 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 Orkney.

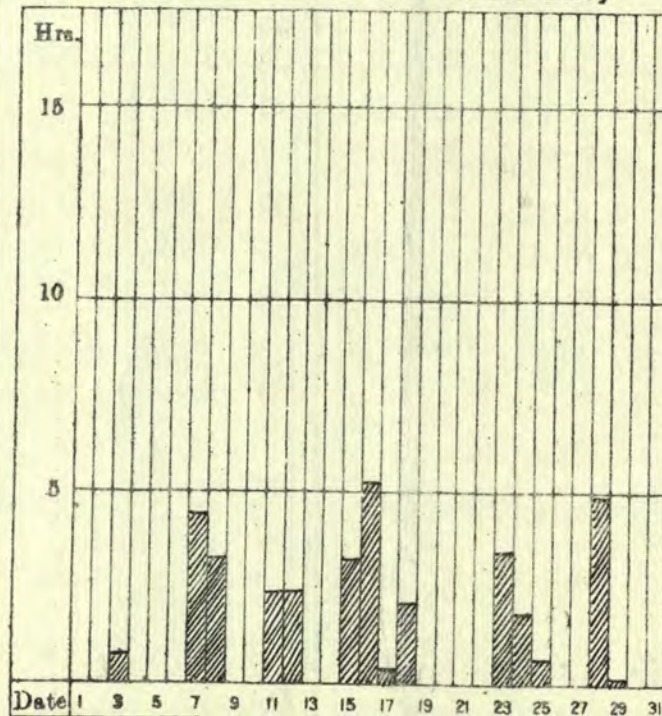
Daily Rainfall at KEW Observatory.



• = Less than 0.5 mm.

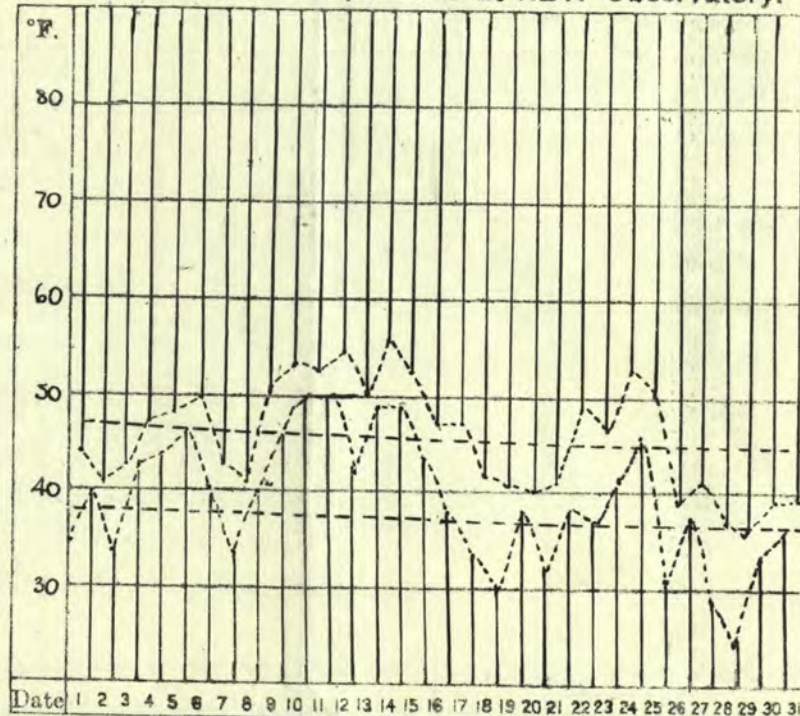
RAINFALL Total for Month. 40 mm.

Daily Sunshine at KEW Observatory



SUNSHINE Total for Month. 36 hrs.

Daily Range of Temperature at KEW Observatory.



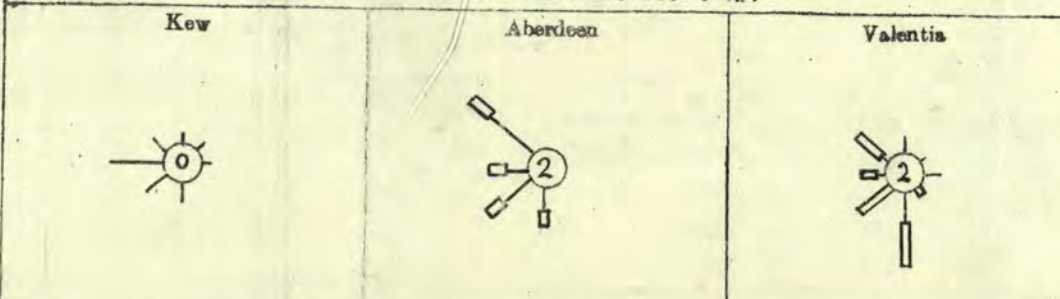
TEMPERATURE. The peaked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

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	°F. +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 19 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 calms.

"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.					Average 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°	Highest Max.	Lowest Max.	Highest Min.	Lowest Min.	Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.								
32° or below		33° - 41°		42° - 50°		51° - 59°		Highest Max.		Lowest Max.		Highest Min.		Lowest Min.		Below 1,000 ft.		1,000-5,000 ft.		5,000-8,000 ft.		Below 1,000 ft.		1,000-5,000 ft.		5,000-8,000 ft.		Dense fog.		Thick fog.		Fog.		Mist.		Good Visibility.				
1	London (Kew Obsy). Croydon Calshot** (Southampton) Lympne	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
		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
		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
		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 ... Gorleston ... Cranwell ...	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
		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
		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
4	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	10	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 ... Eskdalemuir ...	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
		0	10	21	0	40.7	3	7	15	6	0	33.5	49	24	33	30	46	16	20	29	12	14	15	0	11	18	0	18	9	0	0	2	2	2	18	0	1	1	0	18
13	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	10	39	18	0	4	27	0	5	25	1	6	25	0	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	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Height.			
m.b.	Feet.	°F.	°F.		°F.		°F.	Metres.	kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.						Metres.				
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	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.

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

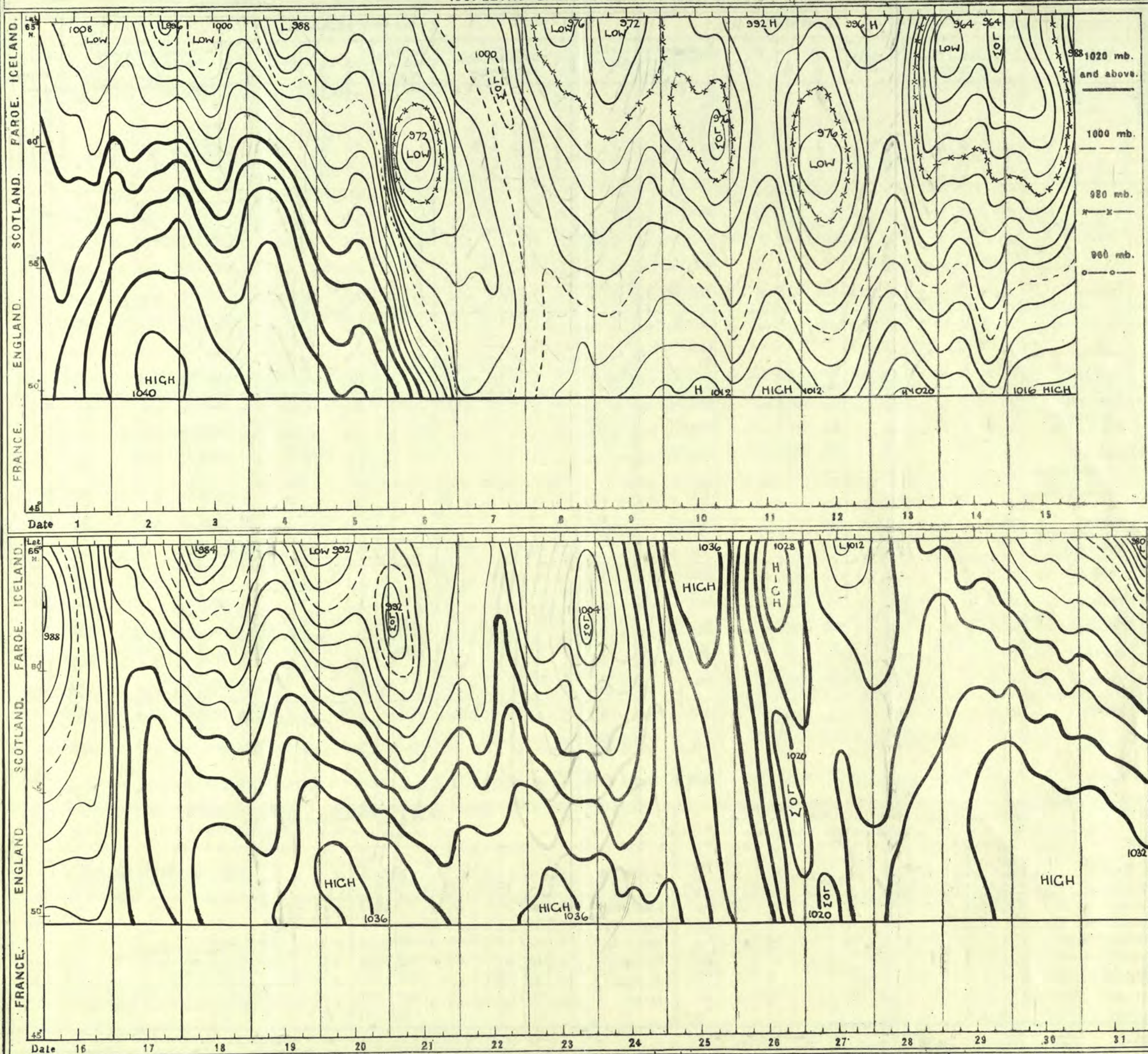
N. K. JOHNSON D.Sc., A.R.C.S., Director.

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

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

~~SECRET~~
BRITISH SECTION
Monday 1st December, 1941.
No 20, 220.

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

OBSERVATIONS at 18h. G.M.T. 30th November.

PAST 24 HOURS

[illegible]

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS

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

b, blue sky (not more than a quarter covered with cloud).
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.
p, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense;
suffix o indicates slight; repetition
of letters indicates continuity: thus
R, heavy rain. * r_o, slight rain.

rr, continuous rain.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14. Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky. "9+" signifies an overcast sky with a few small openings.

‡ Sea disturbance reported from 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:	Alto cumulus, -Ac:	Altostratus, -As:
Stratocumulus, -Sc:	Stratus, -St:	Nimbostratus, -Ns:	Cumulus, -Cu:	Cumulonimbus, -Cb:

COLUMN 29 —STATE OF GROUND

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

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° alti-
tude: often in polar bands.
6 Ci or Cs increasing and reaching above 45°
altitude: often in polar bands.
7 Veil of Ca covering whole sky.
8 Ca not increasing and not covering whole
sky.
9 Ca predominating, and a little cirrus.
(Ce may occur with any of the types 1 to 8).

stratus,-Cs:	Alto cumulus,-Ac:	Altostratus,-As:
stratus,-Ns:	Cumulus,-Cu:	Cumulonimbus,-Cb:

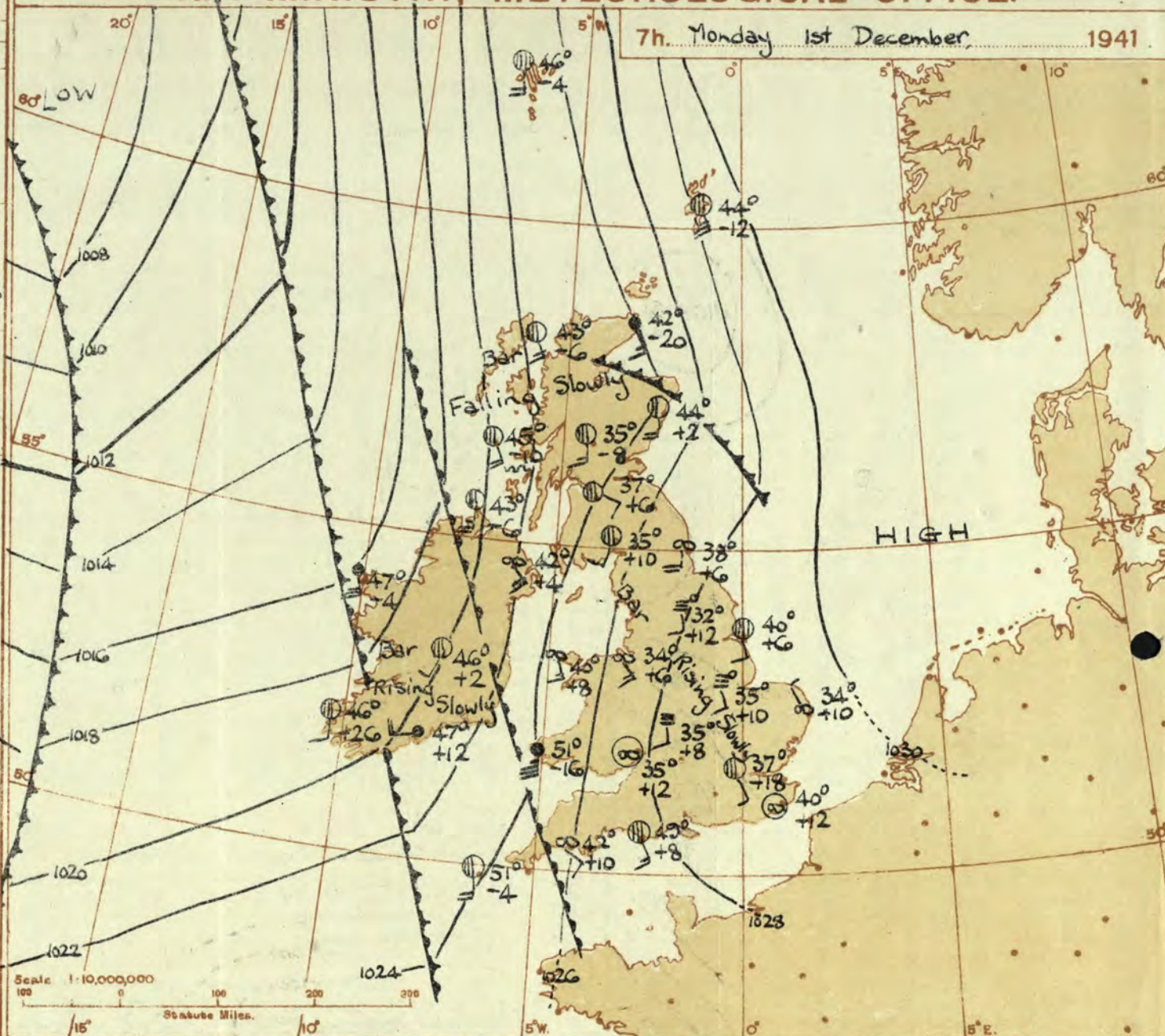
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T.	15h. G.M.T.	17h. G.M.T.	19h. G.M.T.	21h. G.M.T.	23h. G.M.T.	01h. G.M.T.	03h. G.M.T.	05h. G.M.T.	07h. G.M.T.
III C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN	C ₁ C ₂ wwVhN ₁ DDFWN
109 5- 05648 12428	51 05543 13428	5- 02656 46426	5- 51648 46528						
115 51 02734 12226	51 02734 14327	54 01844 12325	57 02844 12426						
203 5- 02845 12316		50 02854 12425							
206 5- 02758 10328	50 02651 00026	05 05600 10105	5- 61658 00065						
210 51 05656 08327	51 05653 10428	03 05600 00213	5- 61644 11268						
220 52 02754 15318			52 03436 16428						
230 53 05756 06227	53 05663 00027	53 02773 00017	5- 05668 00018						
245 5- 05657 11327	57 05656 10227	52 61646 00468	5- 05555 16365						
260 5- 41445 04147	5- 08476 00026	5- 22458 00068	50 05643 00003						
278 5- 02758 09358	57 05664 10327	5- 08668 12328	5- 02757 12327						
279 5- 05564 05326	04 05500 04224	5- 61467 00067	04 05500 17102						
285			5- 05538 08328						
288									
578 53 05654 102-7	5- 05658 01228	5- 05658 08128	5- 61648 12368						
301 53 05656 10327	5- 08456 08126	5- 41468 12428	5- 41558 12348						
321 5- 05657 00327	5- 21658 07158	53 08454 25327	5- 05658 14328						
299 50 05645 08315	5- 22747 08467	50 01753 22313	50 05644 20314						
292 57 05655 06325	57 61657 01168	53 08463 16165	5- 08458 12428						
310			-- 01635 20315						
614 5- 05658 08228	5- 05555 02128	5- 08468 16158	5- 08456 16126						
333 5- 02758 06328	5- 02754 04328	5- 05658 10328	5- 05658 08228						
334			-- 02544 20016						
340 5- 05648 02128	03 05500 10311	5- 08448 14218	5- 05561 15221						
136 5- 05658 08128	5- 05668 12158	00 04400 14112	03 41400 08244						
336									
350 57 05655 04228	03 08400 00027	5- 08458 13218	5- 05558 15128						
368 5- 02658 07358									
379 5- 05657 08227									
390 5- 05657 06227	53 47363 04127	03 47000 12145	5- 47367 00047						
382 5- 05658 06227	5- 05658 00028	5- 05567 08127	5- 05558 14228						
438			5- 03558 05428						
430 5- 05668 04018	5- 05568 06228	50 05665 04225	5- 05677 06227						
409 5- 05500 08227	-- 61646 12328	5- 05656 10526	03 05680 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.
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. 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 ...	As 1-4.
10 N.E. England	
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
— 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 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.

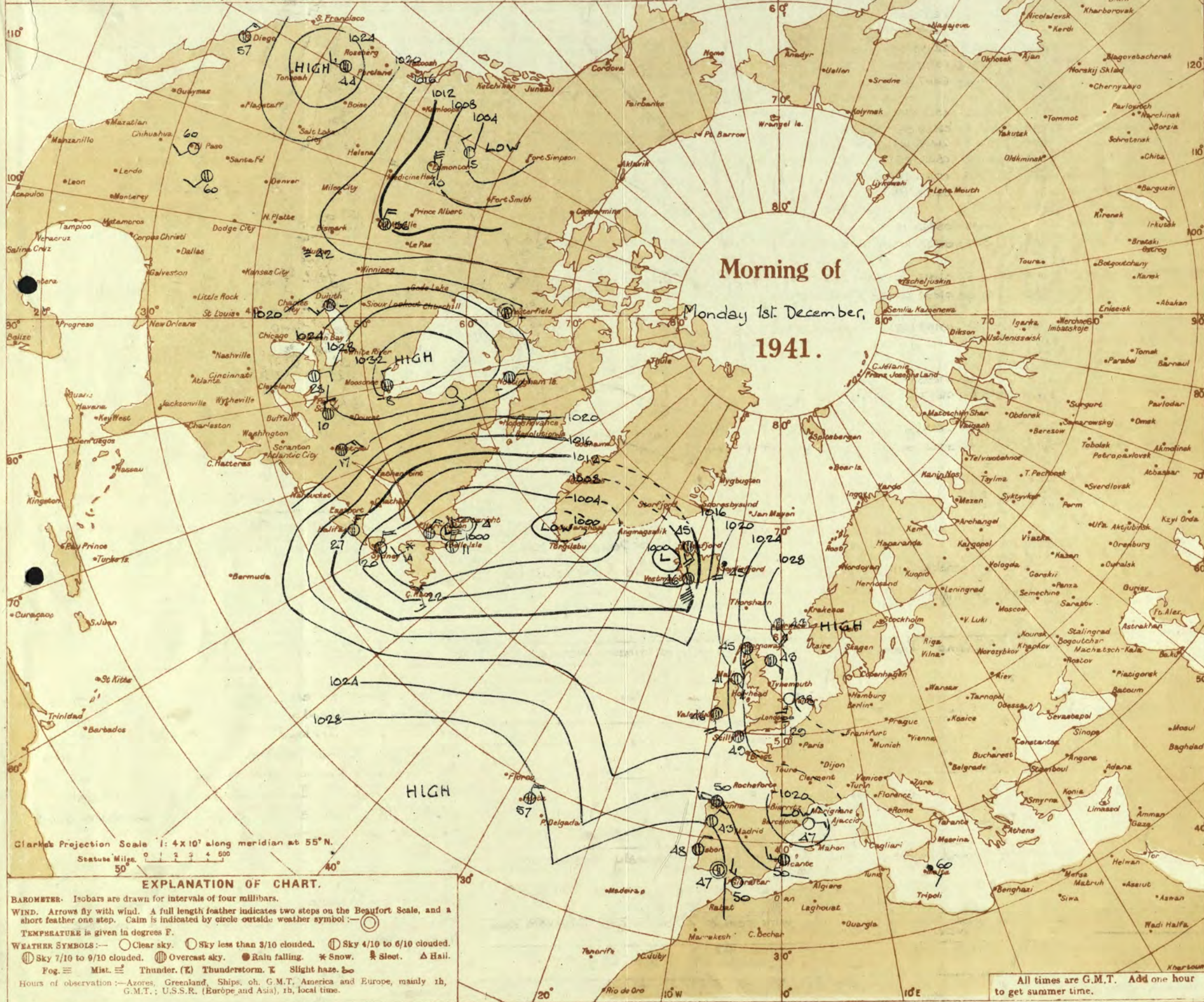
Forecasts issued at 10.30h. G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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. 1st December														OBSERVATIONS at 7 hr. G.M.T. 1st 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. (3)		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud. (9-13)					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind. (17)		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud. (23-27)					Sea. (29)	TEMPERATURE. (31-33)			RAINFALL. (34-36)			SUNSHINE (37)	
					Direc. (3)	Force. (4)					Form. (9)	Amount. (10)	Height of Base (feet) (11)	Total 0-10 (12)	Form. (23)			Amount. (24)	Height of Base (feet) (25)					Total 0-10 (26)	Height of Base (feet) (27)			Max. Day 7h-18h °F. (31)		Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)	Night 18h-7h mm. (35)				
																									Low. (13)	Med. (14)	High (13)						Low (27)	Med. (28)	High (29)	Day (34)	Night (35)
1	London (Kew) ... 18	1027.1	714	S	1	m	29	37	4	-	-	-	-	-	-	1029.5	+12	NE'E	1	m	38	92	4	5	-	-	-	-	41	35	22	-	-	0.0			
	Croydon ... 217	1027.1	714	S	1	m	29	37	4	-	-	-	-	-	-	1029.0	+18	SE'S	1	cf	37	92	3	5	-	-	-	-	40	29	24	-	-	0.0			
	S. Farnborough ... 226	1026.3	+14	E'S	2	m	37	85	4	5	-	-	37	37	3000	1029.2	+14	SE	2	m	35	85	4	5	3	-	-	-	39	33	23	-	-	0.0			
	Boscombe Down ... 417	1026.5	+30	E'S	3	m	37	92	4	5	-	-	10	10	1900	1028.8	+14	-	0	zo	38	97	5	5	-	-	-	-	41	35	33	-	-	0.0			
	Thorney Island ... 10	1026.1	+14	E'N	2	zo	38	85	5	-	3	-	0	4.6	-	1028.4	+14	E'NE	1	zo	42	85	5	5	-	-	-	-	43	37	32	-	-	0.0			
	Lymington ... 346	1027.5	+14	-	0	zo	33	92	6	-	5	-	0	4.6	-	1029.1	+12	-	0	zo	40	97	5	5	-	-	-	-	39	33	25	-	-	0.0			
	Manston ... 154	1027.4	+10	-	0	zo	34	85	5	-	3	-	0	7.8	-	1029.6	+14	-	0	m	39	92	4	5	-	-	-	-	43	32	19	-	-	0.0			
2	Shoeburyness ... 11	1027.1	+14	-	0	b	40	75	7	-	-	-	0	0	-	1029.7	+14	N'NE	1	of	35	97	3	5	-	-	-	-	42	31	21	-	-	0.0			
	Felixstowe ... 15	1027.8	+14	-	0	zo	36	85	5	-	-	-	0	0	-	1030.0	+12	N'E'N	2	zo	35	85	3	5	-	-	-	-	41	32	26	-	-	0.0			
	Corlestone ... 5	1027.9	+12	W	1	zo	36	75	6	4	7	-	4.6	7.8	2500	1029.7	+10	NW	1	zo	34	85	6	4	-	-	-	-	42	32	26	-	-	0.0			
	Mildenhall ... 19	1027.6	+14	SE	2	bf	29	97	3	-	4	-	0	7.8	-	1029.4	+10	SE	3	zo	32	92	0	5	7	-	-	-	39	26	21	-	-	0.0			
	Cranwell ... 240	1027.0	+14	S	1	m	31	97	4	-	-	-	0	0	-	1028.5	+10	SSE	2	m	35	85	4	5	-	-	-	-	45	29	21	-	-	0.0			
3	Birmingham ... 535	1026.5	+8	SE'S	1	m	36	85	4	5	-	-	10	10	2500	1027.4	+8	S	2	cf	35	92	3	5	-	-	-	-	40	33	16	-	-	0.0			
	Upper Heyford ... 408	1026.5	+8	SE'S	1	m	36	85	4	5	-	-	10	10	2500	1028.3	+6	SSE	2	m	37	85	4	5	-	-	-	-	40	33	16	-	-	0.0			
	Ross-on-Wye ... 223	1026.5	+8	SE'S	1	m	36	85	4	5	-	-	10	10	2500	1028.3	+6	SSE	2	m	37	85	4	5	-	-	-	-	40	33	16	-	-	0.0			
5	Hartland Point ... 299	1023.8	+4	S'E	3	c	39	85	6	5	2	-	7.8	10	1500	1024.5	+4	SSE	4	c	46	85	6	5	2	-	-	-	45	38	36	-	-	0.0			
	Bristol ... 209	1026.1	+6	-	0	zo	36	85	5	5	-	-	10	10	2500	1028.0	+12	-	0	m	33	92	4	5	-	-	-	-	42	33	28	-	-	0.0			
	Portland Bill ... 32	1025.1	+8	E'NE	3	0	42	92	7	5	-	-	10	10	2500	1027.4	+8	SE	3	c	49	92	7	5	2	-	-	-	49	39	34	-	-	0.0			
	Plymouth ... 82	1024.8	+8	ESE	3	zo	42	85	5	5	-	-	10	10	3000	1026.8	+10	SE'E	2	zo	42	85	5	5	-	-	-	-	48	40	34	-	-	0.0			
	The Lizard ... 240	1023.9	+8	ESE	3	rr	48	92	7	8	2	-	9	10	1000	1026.3	+6	SSE	5	c	49	85	7	8	2	-	-	-	52	47	40	-	-	0.0			
	Scilly (St. Mary's) ... 163	1022.7	+4	S'W	4	c	49	92	7	5	-	-	10	10	1500	1023.5	-4	S	4	c	51	92	7	5	-	-	-	-	53	48	40	-	-	0.0			
	Guernsey ... 175	1022.7	+4	S'W	4	c	49	92	7	5	-	-	10	10	1500	1023.5	-4	S	4	c	51	92	7	5	-	-	-	-	53	48	40	-	-	0.0			
6	Pembroke ... 142	1024.1	+2	SE	5	zo	45	75	6	8	6	-	7.8	9	2500	1023.1	-16	S	7	ido	51	85	7	8	-	-	-	-	45	40	31	-	-	0.0			
7	Holyhead (Valley) ... 26	1024.0	+2	ESE	2	zo	40	85	6	5	-	-	10	10	3200	1024.6	+8	SE	3	zo	40	75	6	5	-	-	-	-	45	38	31	-	-	0.0			
	Chester (Sealand) ... 16	1025.1	+2	SE	1	zo	32	92	5	-	-	-	0	0	-	1026.6	+6	SE	3	zo	34	75	5	5	-	-	-	-	44	32	23	-	-	0.0			
8	Manchester ... 235	1026.0	+10	SE'S	2	zo	38	85	6	-	-	-	0	0	-	1027.5	+10	SE'S	1	zo	35	85	5	5	3	-	-	-	43	33	27	-	-	0.0			
10	Spurn Head ... 29	1026.7	+22	S'W	3	b	38	97	7	-	-	-	10	0	-	1028.8	+6	SSE	2	0	40	75	6	5	-	-	-	-	43	36	26	-	-	0.0			
	Catterick ... 175	1025.3	+6	SSW	1	m	38	92	4	5	-	-	2.3	2.3	2500	1028.0	+12	S'E	2	m	32	92	4	5	-	-	-	-	44	31	28	-	-	0.0			
	Tynemouth ... 108	1025.0	-2	SE	4	c	42	85	7	5	-	-	9	9	1500	1026.7	+6	S	4	zo	38	85	6	2	-	-	-	-	46	37	33	-	-	0.0			
11	St. Abbs Head ... 280	1024.0	-14	ESE	4	ido	43	92	7	5	2	-	7.8	10	1500	1025.0	+12	SSW	3	bc	37	97	7	4	4	-	-	-	44	36	31	-	-	0.0			
	Leuchars ... 36	1024.7	-20	ESE	4	ido	44	85	6	5	-	-	10	10	1800	1024.9	+18	W	1	zo	39	97	6	5	-	-	-	-	45	39	33	-	-	0.0			
12	Renfrew (Abbots) ... 19	1024.9	-10	-	0	m	37	92	4	5	-	-	9	9	3500	1024.5	+6	W	5	c	37	92	4	5	7	-	-	-	45	35	26	-	-	0.0			
	Eskdalemuir ... 794	1023.8	-2	SSW	3	zo	42	75	6	5	-	-	9	9	2500	1024.6	+4	S'W	2	c	35	97	4	5	-	-	-	-	41	34	32	-	-	0.0			
	Point of Ayre ... 30	1023.8	-2	SSW	3	zo	42	75	6	5	-	-	9	9	2500	1024.6	+4	S	5	zo	41	75	6	4	-	-	-	-	47	40	32	-	-	0.0			
13A	Tiree ... 22	1022.6	-10	SE	4	bc	43	85	8	5	-	-	4.6	4.6	2500	1020.8	-10	SE	4	c	45	92	7	5	-	-	-	-	46	43	31	-	-	0.0			
13B	Stornoway ... 80	1023.6	-8	SE	3	c	45	75	7	5	7	-	7.8	9	2000	1022.1	-6	SE	3	c	43	75	6	5	7	-	-	-	47	33	31	-	-	0.0			
15	Dalwhinnie ... 1176	1024.1	-8	S	3	c	36	92	6	8	-	-	7.8	7.8	2500	1024.1	-8	S	3	c	36	92	6	8	-	-	-	-	46	33	31	-	-	0.0			
	Aberdeen ... 79	1024.2	-2	S	4	bc	44	75	6	8	-	-	4.6	4.6	1500	1024.2	-2	S	4	bc	44	75	6														

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

Tuesday 2nd December 1941.
No. 29230

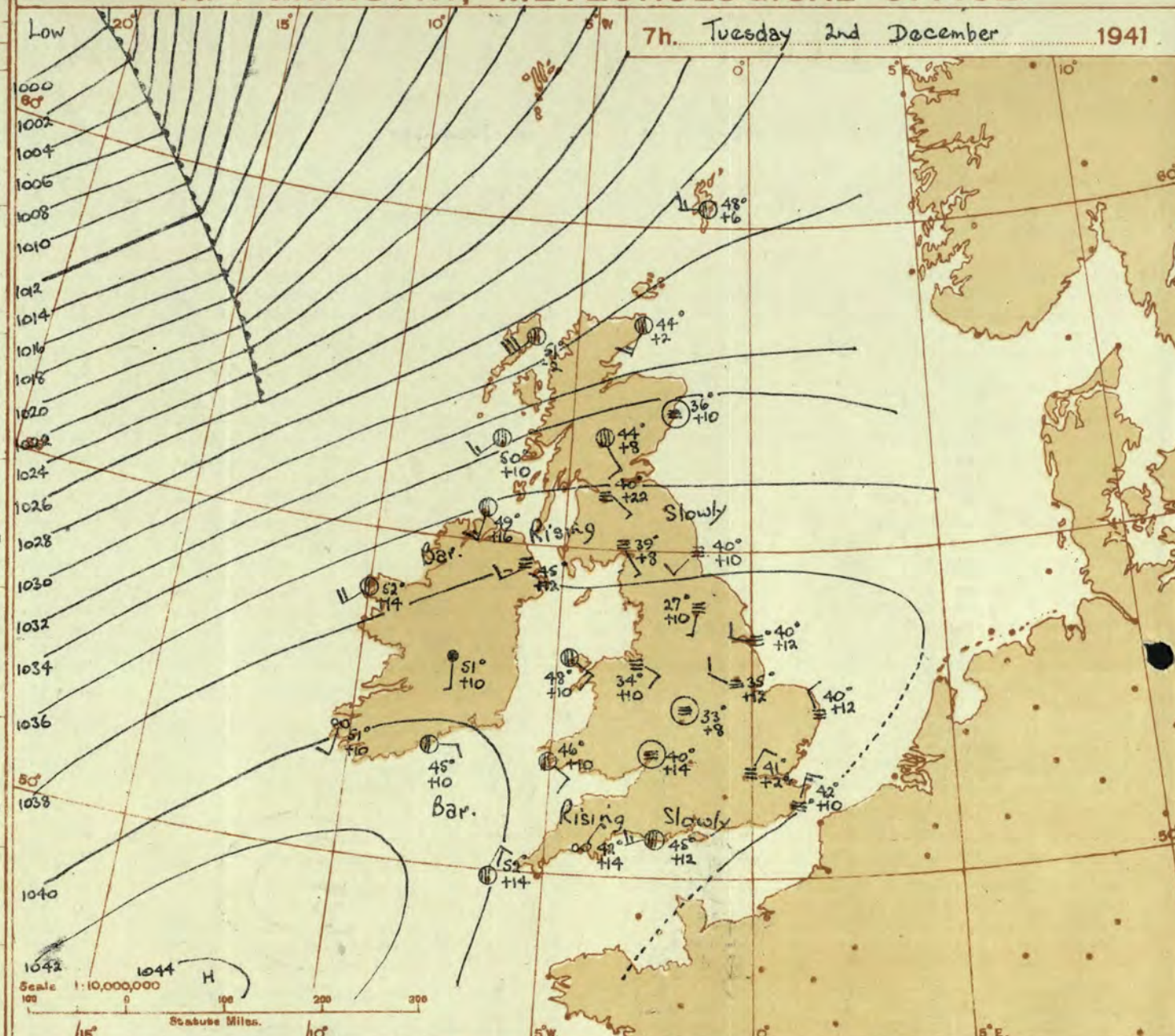
OBSERVATIONS at 13h. G.M.T. 1st December														OBSERVATIONS at 18h. G.M.T. 1st December														PAST 24 HOURS.							
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.					
				Direc.	Force. 0-12 (4)					Form.	Amount.		Height of Base. (feet) (14)	Direc.			Force. 0-12 (18)	Form.					Amount.		Height of Base. (feet) (28)	7h.—13h. 1st... (37)	13h.—18h. 1st... (38)			18h.—1st to 1h.—2nd... (39)	1h.—7h. 2nd... (40)				
											Low.	Med.											High	Low								Total 0-10 (12)	Low	Total 0-10 (26)	
1	London (Kew)...	1031.8	+10	-	0	f	43	75	2	-	-	-	10	10	1033.0	+14	ENE	2	rf	44	92	2	5	-	-	10	10	1500	1	*	cm of.	or of	cf of sg	cm of	
	Croydon ...	1030.6	+2	SE	2	c/f	44	92	5	3	-	9	10	800	1032.2	+6	-	0	rr	43	97	1	5	-	-	10	10	700	1	*	cf m	rr of	cf of do	cf of	
	S. Farnborough	1031.5	+2	ESE	1	rr	42	85	5	-	-	10	10	3500	1032.7	+10	E	1	rr	42	97	3	-	-	-	10	10	1500	1	*	cm m of	rr of	cf of do	cf of	
	Boscombe Down	1030.6	+8	SE	3	z	45	92	5	-	-	9	9	2000	1032.8	+10	E	3	rr	44	97	3	5	-	-	10	10	300	1	*	bc m of	rr of	cf of	cf of	
	Thorney Island	1030.9	+8	E	2	dd	45	92	5	-	2	-	10	10	800	1031.8	+6	E	2	rr	45	97	3	-	2	-	10	10	700	1	*	cm of do	rr of	cf of do	cf of do
	Lympne ...	1030.8	+4	NE	1	z	47	85	5	-	6	2-3	9	1200	1032.2	+4	NE	1	cf	42	97	3	-	5	-	0	9	-	1	2	*	cm of	rr of	cf of	cf of
	Manston ...	1031.2	+2	-	0	z	47	85	5	3	2	7-8	9	1400	1032.9	+8	-	0	cf	41	92	3	5	3	6	1	9	-	1	*	cm m	rr of	cf of	cf of	
2	Shoeburyness ...	1031.4	+4	-	0	c	46	85	6	5	-	10	10	1800	1032.9	+6	-	0	dd	43	92	4	5	-	-	10	10	800	1	*	cm of	rr of	cf of	cf of	
	Felixstowe ...	1031.9	+12	-	0	z	46	85	5	-	3	-	0	10	-	1033.3	+8	NEH	2	z	43	92	5	7	-	-	9	9	3500	1	1	cm of	rr of	cf of	cf of
	Gorleston ...	1032.5	+16	NW	1	z	43	85	5	-	-	10	10	800	1033.4	+2	NW	1	z	44	85	6	5	3	-	4	9	800	0	2	cm of	rr of	cf of	cf of	
	Mildenhall ...	1031.6	+2	SE	2	z	41	85	6	5	-	10	10	2000	1033.4	+10	S	2	rr	41	97	2	-	2	-	10	10	1500	1	*	cm of	rr of	cf of	cf of	
	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 of	rr of	cf of	cf of	
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 of	rr of	cf of	cf of
	Upper Heyford	1030.7	+6	SE	3	z	44	85	5	-	3	9	0	1	-	1032.4	+14	SE	2	m	42	92	4	5	-	-	9	9	3200	1	*	cm of	rr of	cf of	cf of
4	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	*	cm of	rr of	cf of	cf of
5	Hartland Point	1029.0	+10	SW	3	rr	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	cm of	rr of	cf of	cf of
	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	cm of	rr of	cf of	cf of
	Portland Bill ...	1029.0	+6	S	2	c	51	92	7	5	-	10	10	2500	1030.1	+6	W	3	rr	48	92	7	8	6	-	10	10	2500	1	2	cm of	rr of	cf of	cf of	
	Plymouth ...	1029.3	+10	SW	3	z	47	92	5	5	-	10	10	2500	1031.3	+18	W	2	rr	48	92	4	8	6	-	10	10	2500	1	2	cm of	rr of	cf of	cf of	
	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	cm of	rr of	cf of	cf of
	Scilly (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	cm of	rr of	cf of	cf of	
	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	cm of	rr of	cf of	cf of	
6	Pembroke ...	1025.4	0	SW	5	c/pr	50	85	8	8	3	-	4-6	9	2000	1031.6	+50	NW	4	c/pr	49	85	7	8	6	-	7-8	9	2500	1	3	cm of	rr of	cf of	cf of
7	Holyhead (Valley)	1026.5	+14	S	5	z	47	92	6	5	2	-	9	10	1500	1030.1	+32	S	5	z	49	85	6	5	2	-	9	10	1600	1	4	cm of	rr of	cf of	cf of
	Chester (Sealand)	1028.9	+8	SE	3	z	41	85	5	5	2	-	4-6	9	6000	1031.6	+18	SE	2	cf	41	85	3	-	7	-	0	7-8	-	1	*	cm of	rr of	cf of	cf of
8	Manchester ...	1030.1	+10	SSE	2	m	42	85	4	-	3	-	9	9	8000	1032.5	+18	-	0	m	42	92	4	5	-	8	2-3	9	5700	1	*	cm of	rr of	cf of	cf of
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 of	rr of	cf of	cf of	
	Catterick ...	1030.5	+6	SW	2	cf	37	92	3	5	3	-	2-3	9	1900	1032.8	+16	SSW	1	bft	35	97	2	-	-	0	0	-	0	*	cm of	rr of	cf of	cf of	
	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 of	rr of	cf of	cf of
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	cm of	rr of	cf of	cf of
	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	*	cm of	rr of	cf of	cf of
12	Rentrew (Abbots L.)	1027.5	+8	ENE	3	rr	40	85	3	5	-	-	10	10	2500	1029.6	+8	NE	2	df	40	85	3	5	-	-	10	10	1200	1	*	cm of	rr of	cf of	cf of
	Eskdalemuir ...	1028.8	+10	SW	1	c	33	85	6	5	7	-	7-8	9	1500	1031.3	+10	-	0	36	85	5	5	-	-	10	10	800	1	*	cm of	rr of	cf of	cf of	
	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	cm of	rr of	cf of	cf of
13A	Tiree ...	1022.8	+10	S'E	5	o	45	92	6	5	-	10	10	1200	1026.0	+20	SW	2	b	46	92	8	5	-	-	1	1	2800	1	4	cm of	rr of	cf of	cf of	
13B	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	cm of	rr of	cf of	cf of
15	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	*	cm of	rr of	cf of	cf of
	Aberdeen ...	1028.1	+8	SSW	2	c	40	85	5	5	-	-	7-8	7-8	1700	1029.6	+6	ESE	2	bc	40	85	5	5	7	-	2-3	4-6	1900	1	2	cm of	rr of	cf of	cf of
	Wick ...	1025.9	+16	SW	3	b	44	65	8	1	-	-	1	1	2000	1026.6	0	SSE	1	c	43	85	6	5	-	-	9	9	4000	1	*	cm of	rr of	cf of	cf of
16	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	cm of	rr of	cf of	cf of
17	Blacksod Point...	1024.3	+16	W	4	bc	52	75	8	2	-	-	4-6	4-6	2500	1027.7	+16	SSW	4	c/r	51	85	8	5	-	-	9	9	1500	1	4	cm of			

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						
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	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-	13567	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								
301	5-	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	08490	24200								
292	5-	08467	12127	00	45290	13144	00	45090	00040	--	44009	00049								
310	--	08434	20214	--	46209	20249				--	46109	26349								
311	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								
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	12248	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								

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_W - 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	As 5-7.
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 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.

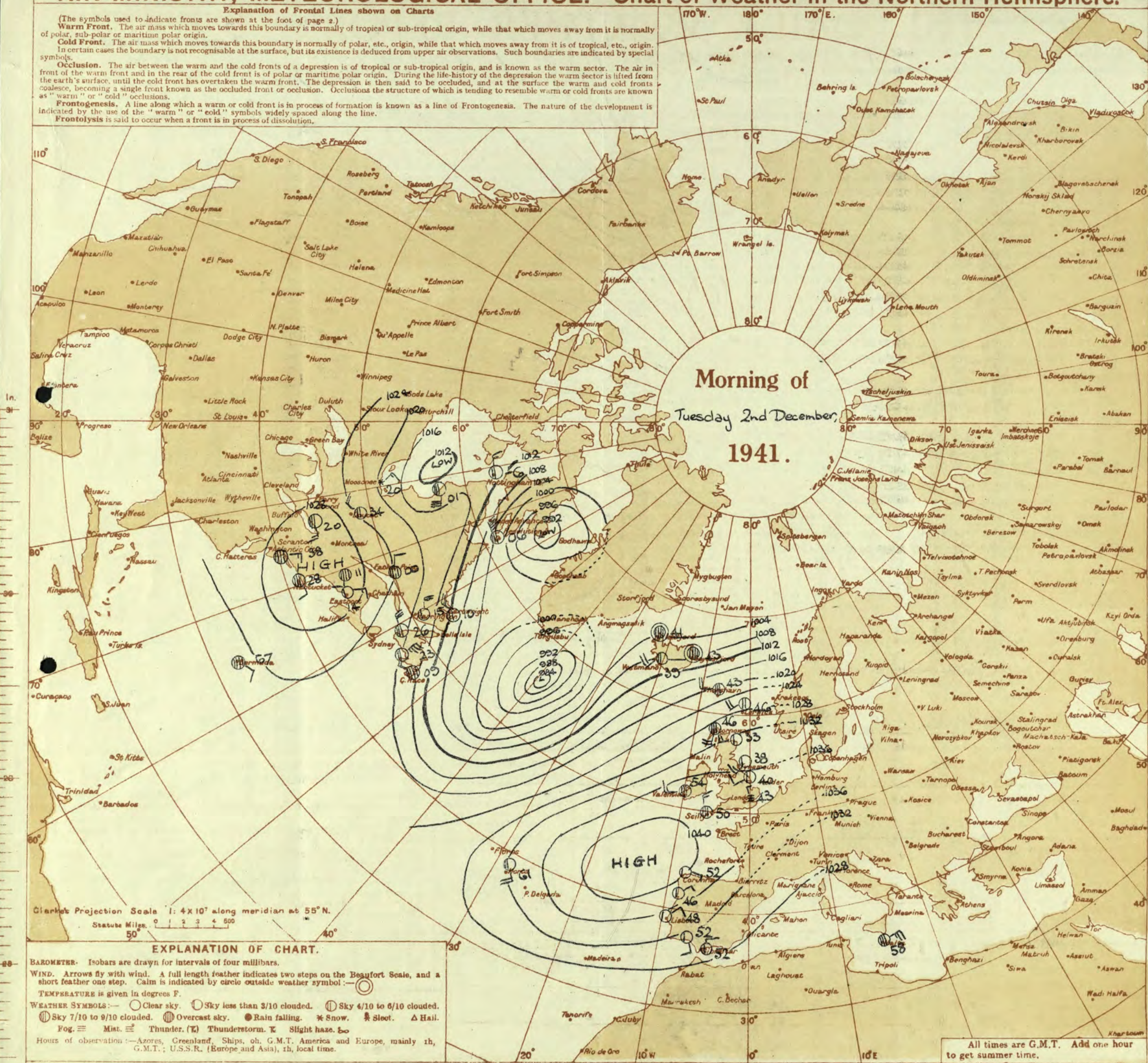
Forecasts issued at 10.30h.
H.M.S.O. Press, Meteorological Office, Dunstable.

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

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 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 2nd December 1941

No 2923.0

OBSERVATIONS at 1 hr. G.M.T. 2nd December															OBSERVATIONS at 7 hr. G.M.T. 2nd December															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (7)	Humid. % (8)	Visibility. (9)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (21)	Humid. % (22)	Visibility. (23)	Cloud.			State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUNSHINE. (56) Hrs.									
					Direc. (3)	Force. (4)				Weather. (5)	Form. (10)	Amount. (11)			Height of Base. (feet) (14)	Direc. (17)				Force. (18)	Weather. (19)	Form. (24)			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)							
																																	Low. (12)	Med. (13)	High. (14)	Low. (20)	Med. (21)	High. (22)	Low. (26)
1	London (Kew) ... 18	1035.7	+20	NNW	1	F+	43	97	1	-	-	-	10	10	<150	1040.0	+18	NNW	2	z	41	97	6	5	-	-	10	10	2500	1	*	44	40	33	4	3	0.0		
	Croydon ... 217	1035.7	+20	NNW	1	F+	43	97	1	-	-	-	10	10	<150	1038.4	+24	NE	2	OF+	41	97	3	5	-	-	10	10	900	1	*	44	41	39	3	3	0.0		
	S. Farnborough ... 226	1036.7	+18	NW	1	F	43	97	1	-	-	-	10	10	<150	1039.5	+18	NW/N	3	OF+	41	97	2	5	-	-	10	10	300	1	*	45	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	F+	40	97	1	5	-	-	10	10	<150	0	*	45	40	35	0.1	1	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	*		
	Lympne ... 346	1034.5	+6	N	1	C	44	97	3	5	2	-	4	6	1500	1037.3	+10	NNE	3	m	42	97	4	5	-	-	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	900	1037.9	+10	N/E	2	z	44	92	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	700	1	*	47	37	28	0.5	0.2	0.0	
	... 16	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	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/N	2	F+	40	85	1	-	-	-	10	10	<150	0	2	45	39	33	-	-	*		
	Mildenhall ... 19	1037.2	+14	-	0	C	35	97	1	-	1	-	0	9	-	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	9	-	1039.4	+12	WNW	2	OF+	35	92	2	-	4	-	0	Tr	-	1	*	45	29	25	-	Tr	1.4		
3	Birmingham ... 535	1036.7	+18	E	1	f	39	97	2	-	-	-	0	0	-	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/N	1	F	36	97	0	-	-	-	10	10	<150	1	*	45	34	31	-	-	*		
4	Ross-on-Wye ... 223	1036.7	+18	E	1	f	39	97	2	-	-	-	0	0	-	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	2500	1038.9	+10	N	2	bc	48	85	8	4	-	1	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	2500	1	4	51	43	*	1	1	*		
	Plymouth ... 82	1037.1	+22	NW	1	b	48	92	7	5	-	-	1	1	4000	1040.1	+14	NE	1	z	42	97	6	5	-	1	Tr	1	3000	1	2	51	39	33	10	3	0.1		
	The Lizard ... 240	1037.4	+16	NNW	3	bc	48	92	7	4	-	-	4	6	2500	1039.7	+10	N	3	C	50	85	8	5	6	-	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	O	52	97	7	5	-	-	10	10	1200	1	3	53	48	*	5	0.1	1.7		
	Guernsey ... 175	1037.8	+14	NNW	3	bc	47	85	8	7	-	-	4	6	4000	1039.8	+10	SE	2	C	46	97	8	8	2	-	7	8	4000	1	*	52	42	*	6	Tr	0.2		
6	Pembroke ... 142	1037.5	+14	NNW	3	bc	47	85	8	7	-	-	4	6	4000	1039.8	+10	SE	2	C	46	97	8	8	2	-	7	8	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	O	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	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	S	0	C	37	97	3	5	3	-	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	S/W	1	F	27	97	0	-	-	-	0	0	-	1	*	37	27	27	-	-	0.0		
	Tynemouth ... 108	1034.7	+2	SW	3	bc	38	92	3	-	-	-	0	0	-	1036.7	+10	SW	2	bc	40	92	3	5	-	-	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	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	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	2500	1	2	47	38	*	0.4	-	0.0		
13a	Tiree ... 22	1031.3	+16	SW/W	2	C	49	92	8	5	-	-	9	9	2500	1033.3	+12	SW	3	O	51	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	2000	1	3	47	45	*	0.4	1	0.0		
15	Dalwhinnie ... 1176	1035.4	+18	SSE	2	C	44	85	7	5	-	-	7	8	2500	1035.4	+18	SSE	2	C	44	85	7	5	-	-	7	8	2500	1	*	38	34	28	0.3	-	0.6		
	Aberdeen ... 79	1034.4	+10	-	0	bc	36	92	3	5	-	-	2	3	2700	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	42	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	-	4	6	2000	1029.6	+6	W	3	bc	48	92	8	8	-	-	2	3	2	3	2100	1	4	47	44	42	0.4	Tr	-
17	Blacksod Point ... 18	1033.0	+22	WNW	1	C	55	97	7	-	1	-	0	7-8	-	1036.4	+14	SW/W	4	bc	52	97	8	-	3	-	0	2	3	-	-	4	52	*	Tr	*			
18	Malin Head ... 84	1032.3	+10	S	3	b	45	86	8	-	-	1	0	1	-	1035.2	+16	S/W	3	C	49	85	7	8	-	-	9	9	4000	1	3	50	*	Tr	*				
	Aldergrove ... 268	1035.9	+10	S/E	1	C	43	92	7	7	-	-	9	9	4500	1035.0	+12	SW/S	2	F	45	97	1	-	-	-	10	10	<150	1	*	47	40	*	2	Tr	*		
19	Birr Castle ... 173	1037.4	+18	WSW	3	z	54	85	6	5	7	-	4	6	10	1500	1038.1	+10	S	1	Tr	51	97	7	5	-	-	10	10	2500	1	*	52	*	0.5	1.9			
20	Valentia Obey. ... 30	1037.4	+18	WSW	3	z	54	85	6	5	7	-	4	6	10	1500	1039.7	+10	S/W	2	z	51	97	6	5	-	-	4	6	4	1500	1	*	53	*	2	*		
	Roches Point ... 22	1037.3	+14	W	2	C	47	97	8																														

[illegible]

‡ Pressure at 1,000 dynamic metres level.

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

† Sea disturbance reported from Dungeness

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

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

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

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

THE DAILY WEATHER REPORT

SECRET
BRITISH SECTION

Wednesday 3rd. December, 1941.

No. 2923

OF THE METEOROLOGICAL OFFICE, LONDON.

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

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

PAST 24 HOURS.

[illegible]

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS

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

b, blue sky (not more than a quarter covered with cloud).
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 intensity;
suffix o indicates slight; repetition
of letters indicates continuity: thus
R, heavy rain. r_o, slight rain.
rr, continuous rain.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

1. See disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

Cloud form abbreviations --

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

COLUMN 29 — STATE OF GROUND.

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

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 Ca not increasing and not covering whole sky.
- 9 Cc predominating, and a little cirrus.

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

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

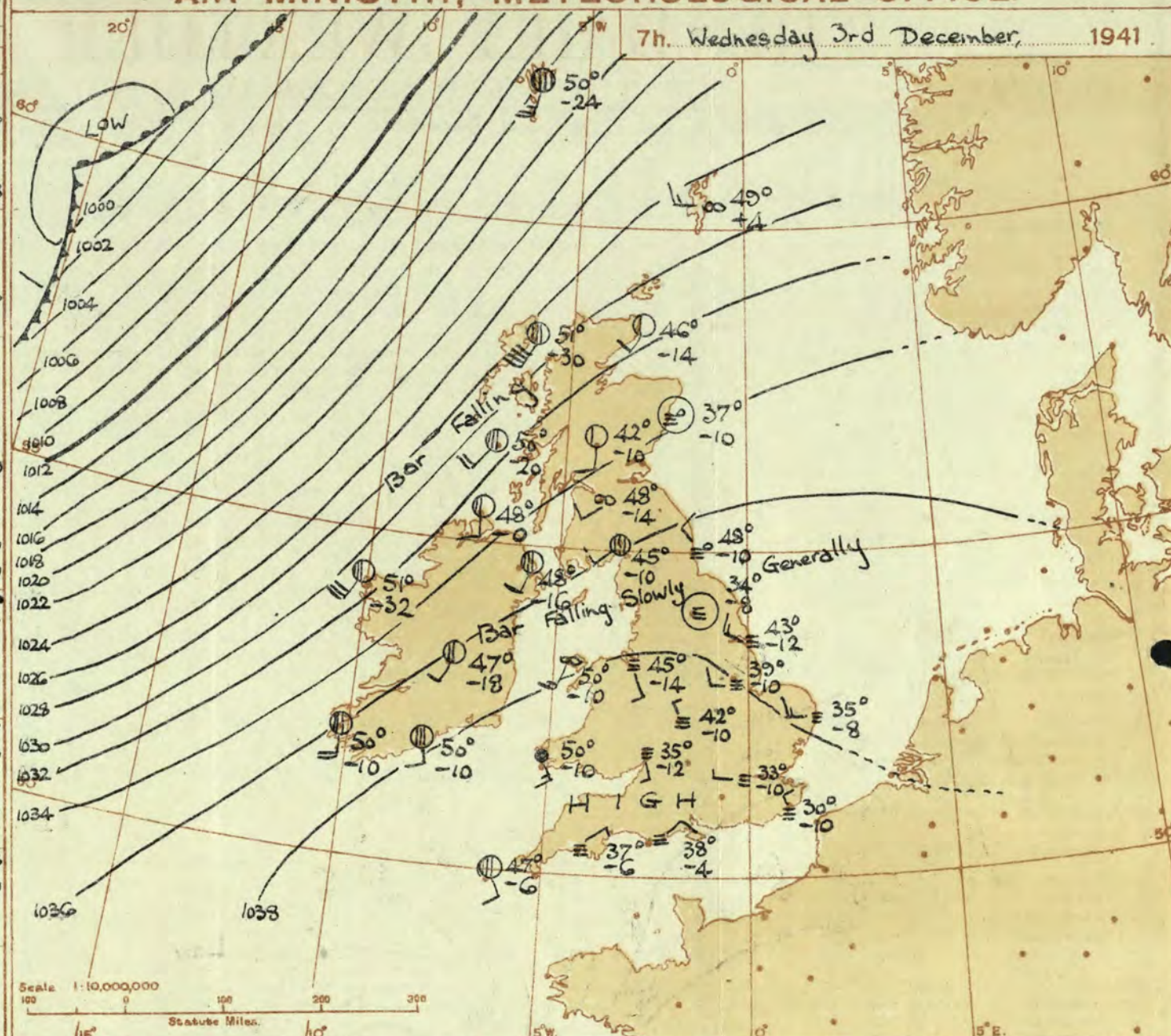
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T.	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	0251548 23658	5- 05665 22625	5- 03678 22528	5- 02756 20326	
115	5262634 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	
250	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			
293	00 45390 21143	00 47290 18143	5- 46257 22247	5- 45158 22148	
298	51 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 24240			
292	-- 46009 00049	-- 46009 00049		-- 46009 00049	
310		-- 01636 24226		-- 46109 24249	
614	-- 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 45374 17144	5- 43358 00048	03 45390 00047	5- 45398 14148	
136	00 08450 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 20143	5- 05558 00028	
390	-- 46009 26149	-- 46009 00049	-- 41009 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 13103	

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 3rd December, 1941.



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	
8 N.W. England	Light west to southwest wind; cloudy, fog locally at first; mainly mild.
9 N. Midlands	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Moderate or fresh s.w. wind, reaching gale force on the coasts in North and West; cloudy and mild; occasional rain in Northwest.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	As 7-12.

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. Mild S.W. winds and cloudy weather spreading slowly to Southern districts of British Isles.

↓ Gale warning issued at 0800h 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.



THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Wednesday 3rd December, 1941.
No. 22, 23/.

OBSERVATIONS at 1 hr. G.M.T. 3rd December														OBSERVATIONS at 7 hr. G.M.T. 3rd December.														PAST 24 HOURS.								
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mh.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.					Barom. at M.S.L. mh.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.			State of Ground. 0-9	Sea. 0-9	TEMPERATURE.			RAINFALL.		SUN- SHINE 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.					
																																Low.	Med.		High	Low
1	London (Kew) ... Croydon ... S. Farnborough ... Boscombe Down ... Thorney Island ... Lynnhay ... Manston ...	18 217 226 417 10 346 154	* 1040.0 1041.4 1041.4 1040.8 1039.9 1040.7	* -10 -6 -4 -8 -4	* NW W NW W NW	* 2 0 2 0 2 2	df F OF F F F+	36 37 36 34 38 35 35	97 97 97 97 97 97 97	* 1 1 1 1 1 1 1	* - - - - - -	* 10 10 10 10 10 10 10	* 10 10 10 10 10 10 10	1039.0 1038.6 1038.4 1039.9 1038.9 1038.2 1038.6	-12 -10 -8 -4 -6 -10 -10	* W NW W F F F	2 2 1 0 2 1 2	36 33 32 31 32 30 36	97 97 97 97 97 97 97	1 1 1 1 1 1 0	- - - - - - -	- - - - - - -	10 10 10 10 10 10 10	10 10 10 10 10 10 10	2150 2150 2150 2150 2150 2150 2150	1 1 1 1 1 1 1	\$ 2	47 48 49 48 47 47 48	29 34 32 31 30 29 34	28 34 32 31 30 29 34	- Tr - - - - Tr	0.2 0.1 0.1 0.1 0.1 0.1 0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0			
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	11 15 5 19 240	1040.7 1040.1 1039.5 1040.5 1039.9	-4 -6 -6 -10 -6	- W W SW W	0 3 OF 3 bF+	F F OF F bF+	35 35 32 33 34	97 97 92 97 97	1 1 0 1 0	- - - - -	10 0 10 10 0	10 0 10 10 0	2150 1038.3 1037.4 2150 1037.9	-12 -10 -8 -12 -10	- W W F W	0 3 3 2 2	F+ F F F F	37 35 35 36 30	97 97 92 97 97	1 2 2 0 1	- - - - -	- - - - -	10 10 10 10 10	10 10 10 10 10	2150 2150 2150 2150 2150	1 1 0 1 1	*	45 49 48 36 37	34 32 31 32 33	32 31 30 34 32	- - - 0.2 -	- - - 0.2 -	4.7 4.8 # 0.0 2.3		
3	Birmingham ... Upper Heyford ...	535 408	* 1041.2	* -6	* W'S	* 1	* bF	* 33	* 97	* 1	* -	* -	* -	1039.1 1038.9	-10 +10	W SW	1 1	OF OF	42 35	97 97	3 4	5 5	- -	- -	10 10	10 10	800 2000	1 1	*	43 39	33 33	26 35	- -	- 0.2	1.2 *	
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	1038.1	-12	SE	1	OF	35	97	3	5	-	-	10 10	10 10	800 800	1 1	*	40 33	33 33	0.1 0.2	0.2 0.0			
5	Hartland Point ... Bristol ... Portland Bill ... Plymouth ... The Lizard ... Seilly (St. Mary's) ... Guernsey ...	299 209 32 82 240 163 175	1040.6 1041.5 1040.6 1041.8 1040.7 1040.6	-4 -6 -6 -2 -6 -4	ESE - NE E ESE ESE	2 0 2 1 1 2	bef df cf F bc c	44 37 40 37 46 50	97 97 92 97 92 92	6 1 3 0 7 7	5 5 5 5 8 5	3 - - - - -	2 34 10 10 10 10	2500 2150 2150 2150 1500 1500	1038.7 1039.7 1039.1 1040.0 1038.9 1039.0	+8 -4 -8 -6 -8 -6	ESE - NE NE/E - - SSE	2 0 2 1 0 2	bc F F F bc c	42 36 38 37 43 47	97 97 92 97 92 92	7 1 2 0 8 7	4 - 5 - 8 3	- - - - - -	4 10 10 10 4 4	6 10 10 10 6 7	8 2500 2150 2150 1800 1200	1 1 1 1 0 1		50 44 48 55 55 52	40 34 37 36 42 46	37 35 35 33 33 33	- - - - - -	- Tr - Tr - -	1.4 0.0 0.0 6.4 4.8 1.1	
6	Pembroke ...	142	1040.9	0	SSE	2	c	51	92	7	8	-	-	7-8 7-8	2500	1038.4	-10	SSE	3	10 6	50	97	6	8	2	-	7-8 10	1500	1	3	50	42	*	-	Tr	0.3
7	Holyhead (Valley) ... Chester (Sealand) ...	26 16	1039.5 1040.6	-4 -4	S SE	3 1	z of	50 44	97 92	6 3	5 5	-	-	10 10 10 10	1800 3000	1037.2 1038.2	+10 -14	SW SE'S	3 1	z of	50 45	97 92	6 3	5 5	-	-	10 10 10 10	1500 2000	0 1	*	51 45	40 42	48 33	0.1 -	- Tr	# 3.5
8	Manchester ...	235	1040.3	-6	-	0	if	44	92	2	5	-	-	10 10	4000	1038.5	-18	SW	2	of	44	97	3	5	-	-	10 10	400	1	*	46	43	41	-	Tr	*
10	Spurn Head ... Catterick ... Tynemouth ...	29 175 108	1039.2 1039.6 1038.0	-4 -4 +2	WNW S'E WNW	2 2 2	bef cf c	40 32 48	97 97 92	2 2 6	7 5 8	- 3 8	- 3 -	4-6 4-6 2-3 7-8 9+ 9+	1500 5500 2500	1037.0 1037.8 1036.5	-12 -8 -10	WNW W NW	3 0 2	F+ of m	43 34 48	97 97 85	1 2 4	- 5 8	- - -	10 10 10 10 9+ 9+	2300 2500 2500	1 1 1	2 3 3	43 44 51	37 31 40	29 20 40	- - -	- - -	0.5 2.2 *	
11	St. Abbs Head ... Leuchars ...	280 36	1036.1 1035.9	-4 -4	W WNW	3 2	a z	40 45	75 85	7 6	5 7	4 7	- -	7-8 9 0 9	2500 -	1035.2 1034.3	-6 -10	W WSW	3 2	c z	47 46	85 75	7 6	5 5	2 -	7-8 10 9 9	2500 4500	0 1	2 *	53 49	45 43	*	39	-	-	1.0
12	Renfrew (Abbots I.) ... Esksdalemuir ... Point of Ayre ...	19 794 30	1037.0 * 1038.7	-2 * -4	WSW * WSW	3 * 2	z * c	50 * 49	85 * 97	6 * 7	5 * 5	7 * -	- * -	9+ 9+ * 9+ 9+	3000 * 2500	1034.9 1036.6	+14 -12	SW SW'S	2 2	z c	48 48	92 97	5 7	5 8	- 2	10 10 7-8 10	2500 1800	1 1	2 *	45 52	48 43	43 41	0.1 Tr	Tr	0.0 0.8 0.8	
13A	Tiree ...	22	1038.3	-4	SW'S	3	c	51	92	7	8	*	*	9+ 9+	2500	1032.0	-20	SW'S	4	c	50	92	7	5	-	-	9 9	2500	0	4	52	50	* *	Tr	-	0.0
13B	Stornoway ...	80	1032.3	-6	SSW	4	c	51	85	7	5	7	-	7-8 9+	2000	1028.0	-30	SSW	8	c	51	85	8	7	9	-	7-8 7-8	2000	1	5	53	50	*	Tr	-	0.0
15	Dalwhinnie ... Aberdeen ... Wick ...	1176 79 119	* * 1038.3	* * +2	* * NW	* * 2	* * c	* 46 51	* * 85	* * 8	* * 5	* * 7	- - -	* * 9+ 9+	* * 4500	1034.4 1033.3 1031.2	-10 -10 -14	W W SSW	2 0 2	b b z	42 37 46	75 97 92	8 4 6	5 5 7	- 1 Tr	1 1 1 1 3500	2500 3000 3500	1 1 1	4 *	51 49 53	40 36 46	31 29 42	- - Tr	- - Tr	0.0 1.2 *	
16	Sumburgh ...	30	1031.0	+10	WNW	4	z	50	97	6	5	7	-	9+ 10	800	1031.0	+4	W	3	z	49	97	6	5	-	-	10 10	1000	1	4	55	48	47	4	Tr	*
17	Blackod Point ...	18	1035.5	-8	SSW	5	c	52	85	7	5	-	-	9+ 9+	2500	1030.8	-32	SSW	6	c	51	85	7	4	-	-	9 9	1500	5	3	54	*	Tr	-	*	
18	Malin Head ... Aldergrove ...	84 268	1036.2 1039.0	-6 -2	S S	3 1	c z	49 46	85 92	7 6	5 5	- -	- -	9 9 9 9	2500 3500	1039.2 1035.0	0 -16	S SSW	2 2	bc c	48 48	75 85	8 7	4 5	- -	4-6 4-6 10 10	4000 2000	1 1	*	52 50	*	Tr	-	0.0 0.0		
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	9+ 9+	2500	1035.5	-18	SSW	1	bc	47	85	8	5	-	-	4-6 4-6	4000	*	4	53	*	0.1	-	0.1	
20	Valentia Obay. Roches Point	30 22	1038.5 1040.0	-10 -6	S'E S	3 2	c cf	51 48	97 97	7 2	5 5	- -	- -	9 9 9 9	2150 2150	1036.2 1037.4	-10 -10	S S	4 2	c c	50 50	75 92	8 7	5 5	- -	9+ 9+ 9+ 9+	2500 1500	1	4	55 51	*	0.1 0.1	- 0.1	*		

[illegible]

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

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

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

AIR
MINISTRY.THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET
BRITISH SECTION
Thursday 4th December 1941.
No 29,232

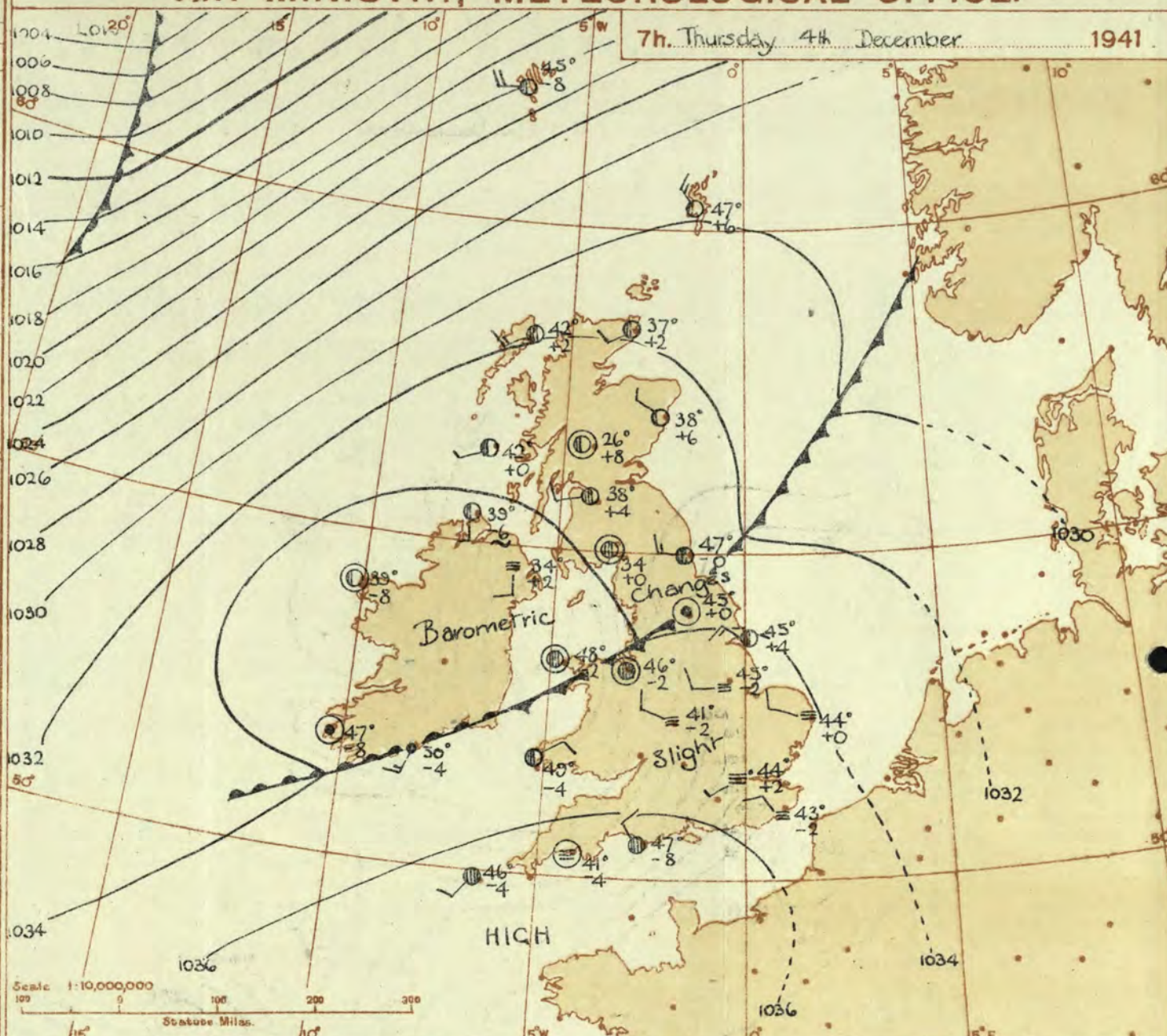
OBSERVATIONS at 13h. G.M.T. 3rd December.														OBSERVATIONS at 18h. G.M.T. 3rd December.														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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.				Barom. at M.S.L. mb. (25)	Change in 3 hours. (26)	Wind. Dir. (27)	Force (28)	Weather. (29)	Temp. °F. (30)	Humid. % (31)	Visibility. 0-9 (32)	WEATHER.																																																																																																																																																																																																																																																																																																																																																																																																																																												
				Dir.	Force.					Low.	Med.	High.	Low.			Med.	High.					Low.	Med.	High.	Low.									Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T.	14h. G.M.T.	15h. G.M.T.	16h. G.M.T.	17h. G.M.T.	18h. G.M.T.	19h. G.M.T.	20h. G.M.T.	21h. G.M.T.	22h. G.M.T.	23h. G.M.T.	24h. G.M.T.
III C ₁	wwVhN ₁	DDFWN ₁	C ₂	wwVhN ₂	DDFWN ₂	C ₃	wwVhN ₃	DDFWN ₃	C ₄	wwVhN ₄	DDFWN ₄
109 20	05630	0002	5-	02067	1407	80	00852	26412	2-	00863	20303
115 54	14844	55622	62	62634	55667	87	01344	28465	87	02594	26485
203 8-	02838	16628	6-	62738	16768						
206 03	00330	22302	5-	02857	22227	53	01361	00024	53	01361	16114
210 04	00830	17301	53	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				50	02863	25365	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
295 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	08496	24120	05	45290	24145
333 5-	52528	16168	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-	48158	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-	15357	00048	50	47252	26142
279 5-	05658	25128	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-	15357	22148	5-	05558	00028
438									5-	02558	31228
430 50	41454	22244				5-	08458	02148	5-	08458	28128
400 03	09200	15246	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, 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. Thursday 4th 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; brighter 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.

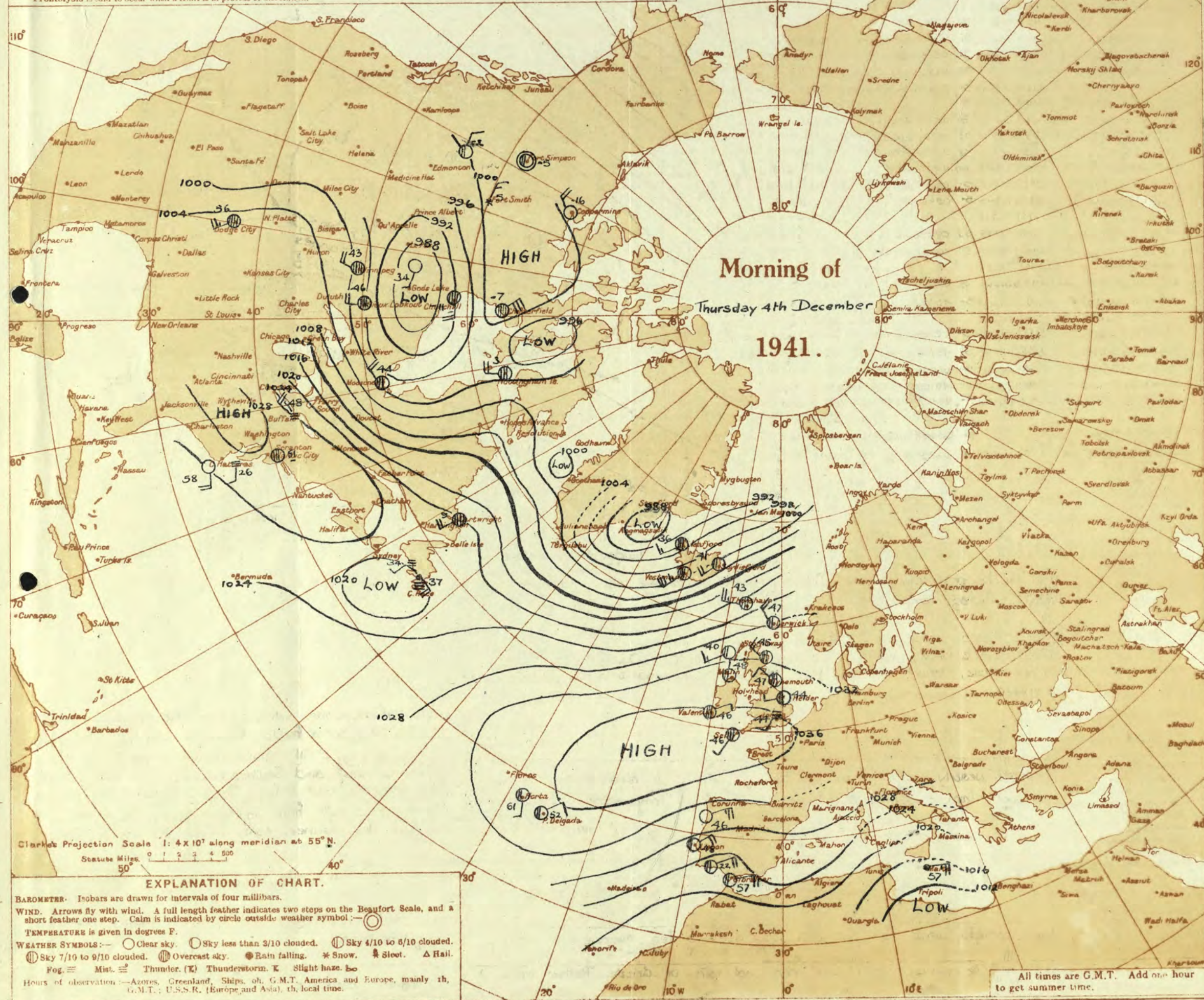
Forecast issued at 1030 G.M.T.

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

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

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

Explanation of Frontal Lines shown on Charts
 (The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.
 In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

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

[illegible]

LONDON OBSERVATIONS.													EXPLANATION OF FIGURES, LETTERS, etc.									
Day 7h—18h. Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h													COLUMNS 2, 16. The barometric tendency is expressed in tenths of a millibar.									
Height above S.L. in feet.	Weather			Temperature.			Rainfall.		Humidity.			Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.										
	Morning.	Afternoon.	Night.	Day Max.	Night Min.	Min. on Grass °F.	Day. mm.	Night. mm.	Sun- shine, to Sunset, hrs.	16h. G.M.T. %	9h. G.M.T. %											
													Visibility mi.									
24 hrs. ended 9h.				°F.	°F.				Yesterday.	To-day.	24 hrs. ended 7h. G.M.T. 4h.											
SOUTH KENSINGTON.													COLUMNS 4, 18. THE BEAUFORT SCALE OF WIND is used only for surface observations. In the ac- companying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.									
Max. Time. Min. Time.													COLUMNS 8, 22—Code for surface visibility. Objects not visible at									
Kew Observatory.													0 Dense fog 55 yards.									
Max. Time. Min. Time.													1 Thick fog 220 "									
0.9 17h. 0.1 2.5h. 3rd 4h.													2 Fog 550 "									
													3 Moderate fog 1,100 "									
													4 Mist or haze 1½ miles.									
													5 Poor visibility 2½ "									
													6 Moderate " 4½ "									
													7 Good " 12½ "									
													8 Very good " 31 "									
													9 Excellent " beyond 31m.									
FOREIGN OBSERVATIONS.													COLUMN 30—Code for State of Sea.									
Evening of 3rd December... Morning of 4th December... Past 24 Hours.													0 Calm—glassy. 5 Rough.									
Barom. Wind. Weather. Temp. Barom. Wind. Temp. Max. Min. Rainfall.													1 Calm—rippled. 6 Very rough.									
mb. Direc. Force. °F. mb. Direc. Force. °F. Day °F. Night °F. Day mm. Night mm.													2 Smooth. 7 High.									
Stations.													3 Slight. 8 Very high.									
Reykjavik (18h and 07h) ...													4 Moderate. 9 Phenomenal.									
Lisbon (18h and 07h) ...																						
Madrid (18h and 07h) ...																						
Cairo (Heliopolis) (18h and 06h) ...																						
Toronto (13h and 01h) ...																						
Washington (13h and 01h) ...																						

TERMS OF SUBSCRIPTION. { single Copies, 1d. each: by post 1½d.
2/6 per month; 8/6 per quarter; 25/- per year.

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

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

AIR
MINISTRY.THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET
Friday, 5th December 1941.
No 29233

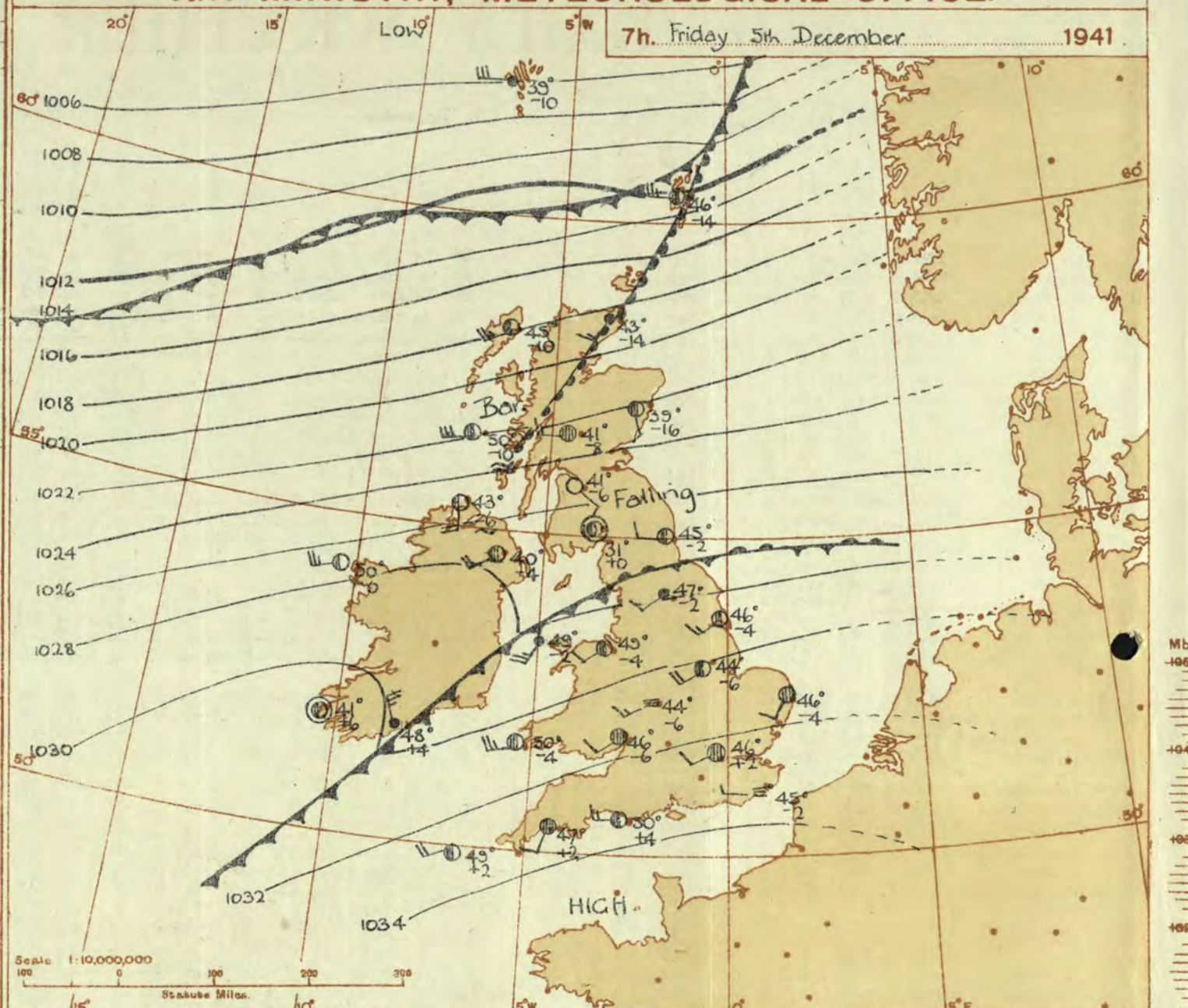
OBSERVATIONS at 13h. G.M.T. 4th December														OBSERVATIONS at 18h. G.M.T. 4th December														PAST 24 HOURS.					
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. ° F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. ° F. (20)	Humid. (21)	Visibility (22)	Cloud.				State of Ground. 0-6 (29)	Sea. 0-9 (30)	WEATHER.					
				Direc. (3)	Force. 0-12 (4)					Low. (9)	Med. (10)	High (11)	Low 0-10 (12)			Total 0-10 (13)	Height of Base. (feet) (14)					Low (23)	Med. (24)	High (25)	Low 0-10 (26)			Total 0-10 (27)	Height of Base (feet) (28)	7h.-13h. 4th (37)	13h.-18h. 4th (38)	18h.-4th 1h.-5th (39)	4th-5th 1h.-7h. (40)
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1035.4 1034.8 1035.3 1035.8 1035.5 1034.3 1034.8	+6 -6 -10 -6 -6 -8 -4	WSW WSW - - WNW NW NW	1 1 0 0 1 2 2	46 46 46 47 47 45 47	92 92 92 92 85 97 92	3 4 6 5 3 4 4	5 5 5 5 5 5 5	- - - - - - -	- - - - - - -	9 10 9 10 10 10 9	2500 2500 2500 3500 3400 2500 3500	1034.7 1034.2 1034.2 1034.8 1034.7 1034.1 1034.3	-2 -2 -3 -4 -2 -2 -4	- SSW - - N - -	0 1 0 0 0 0 0	off off off off off off off	46 45 45 45 46 43 45	92 92 92 92 92 97 92	2 2 3 2 2 1 2	5 5 5 5 5 5 5	- - - - - - -	- - - - - - -	10 10 10 10 10 10 10	1150 5600 3500 2700 3600 1150 3000	1 1 1 1 1 1 1	* * * * * * *	off cmcm cmcm cm cm cm cm	off cmcm cmcm cm cm cm cm	off cm cm cm cm cm cm	off cm cm cm cm cm cm	
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1034.8 1034.5 1033.6 1034.7 1033.8	-4 -6 -6 -10 -6	WNW WNW W SW W	1 1 3 2 3	48 47 46 47 47	92 92 85 97 92	3 4 3 4 4	5 5 5 5 5	- - - - -	- - - - -	9 10 10 10 9	3500 2300 1600 2400 2000	1034.3 1034.1 1033.3 1033.6 1032.8	-2 -4 -2 -3 -2	- WNW WSW WSW WSW	0 1 2 2 2	off off off off off	46 46 46 46 46	92 97 92 92 92	2 2 4 3 2	5 5 5 5 5	- - - - -	- - - - -	10 10 10 10 10	2500 3300 800 3600 2500	1 0 0 0 1	* * * * *	off cm cm cm cm	off cm cm cm cm	off cm cm cm cm	off cm cm cm cm	
3	Birmingham Upper Heyford	1034.4 1034.8	-24 -12	SSW SW	2 1	48 46	85 92	6 4	5 5	- -	- -	9 7-8	2500 1400	1033.6 1034.0	-4 -2	SW -	2 0	off off	46 45	85 97	6 4	5 5	- -	- -	10 10	1500 2800	1 1	* *	off cm	off cm	off cm	off cm	
4	Ross-on-Wye ...	1034.4	-10	SW	1	46	92	4	5	-	-	10	3000	1033.5	-6	WSW	1	off	46	92	4	5	-	-	10	2000	1	*	off	cm	off	cm	
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Soilly (St. Mary's) Guernsey ...	1034.7 1035.4 1035.1 1036.0 1035.5 1035.8 1035.8	-8 -10 -10 -10 -10 -8 -6	NW W WNW - NW SW	3 2 2 0 2 0 1	51 47 50 46 46 51 50	85 92 85 92 92 75 75	8 5 7 5 5 8 8	8 5 5 5 5 5 5	2 - - - - - -	- - - - - - -	7-8 10 10 10 10 7-8 9	1500 3000 2500 4000 1500 1800	1033.5 1034.4 1033.9 1035.1 1033.2 1033.2 1034.3	-4 -4 -6 -6 -6 -6 -6	WSW - WNW - SW SW SW	4 0 2 0 2 2 2	off off off off off off off	49 46 50 46 49 49 49	85 97 92 92 65 65 75	7 4 7 2 2 8 8	5 5 5 5 5 5 5	- - - - - - -	- - - - - - -	9 9 4-6 10 7-8 10	2500 2500 2500 2000 1500 1500	1 1 1 1 1 1 1	4 3 3 1 3 3 3	off off off off off off off	off cm cm cm cm cm cm cm	off cm cm cm cm cm cm	off cm cm cm cm cm cm	off cm cm cm cm cm cm
6	Pembroke	1034.7	-8	SW	4	51	85	8	8	6	-	7-8	2000	1033.3	-6	SW	5	off	51	75	8	8	6	-	7-8	2500	1	3	off	cm	off	cm	
7	Holyhead (Valley)	1033.1	-16	SE	3	49	97	9	5	-	-	10	200	1031.2	-2	SSW	4	off	51	92	8	5	7	-	4-6	10	2500	1	3	off	cm	off	cm
8	Chester (Sealand)	1033.9	-12	-	0	49	92	6	5	-	-	10	1700	1032.2	-8	SSW	1	off	48	85	4	5	3	-	2-3	2-3	4500	1	*	off	cm	off	cm
9	Manchester ...	1033.9	-14	SSW	1	47	97	3	5	-	-	10	400	1032.5	-8	S	2	off	47	97	4	5	-	-	10	1500	1	*	off	cm	off	cm	
10	Spurn Head ... Catterick ... Tynemouth ...	1033.1 1032.7 1032.9	-4 -16 -4	W - W	3 0 2	46 52 46	92 75 85	3 6 6	5 8 8	- - -	- - -	10 4-6 7-8	1500 3500 2600	1032.3 1031.8 1031.1	-2 -6 -6	WSW SW W	2 1 2	off off off	46 43 43	92 85 92	2 5 5	5 5 2	- - -	- - -	9 2-3 2-3	1500 2500 2600	1 1 1	2 2 2	off cm cm	off cm cm	off cm cm	off cm cm	
11	St. Abbs Head Leuchars ...	1031.9 1031.0	-12 -16	NW SW	1 1	44 41	85 85	8 8	4 5	4 5	- -																						

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	19326	5-	02865	18525	57	02853	18425	57	61645	18568			
115	52	81834	20487	52	81834	20487	55	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	02850	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	05563	00026	50	05663	26115	57	04864	00068	04	00890	22313			
278	23	05651	14346	52	52746	12368	57	02853	20358	50	00851	22311			
279	14	05643	00045	5-	52458	00048	52	12666	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-	02865	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	14147	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						
334	--	51437	30158	--	03647	26228				--	03557	20428			
340	5-	02767	17257	5-	05668	20228	5-	05668	20228	53	04763	16225			
136	5-	08458	22268	5-	47258	20268	5-	08468	21348	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	20127	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-	08458	00028	5-	05657	23227			
436	5-	03558	23328							5-	03558	22328			
430	5-	08468	22228	5-	43368	00048	5-	08468	02148						
409	5-	02758	16128	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	Moderate southwest wind, fresh to strong in the North and Northwest. Fair apart from some scattered showers. Rather mild.
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	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

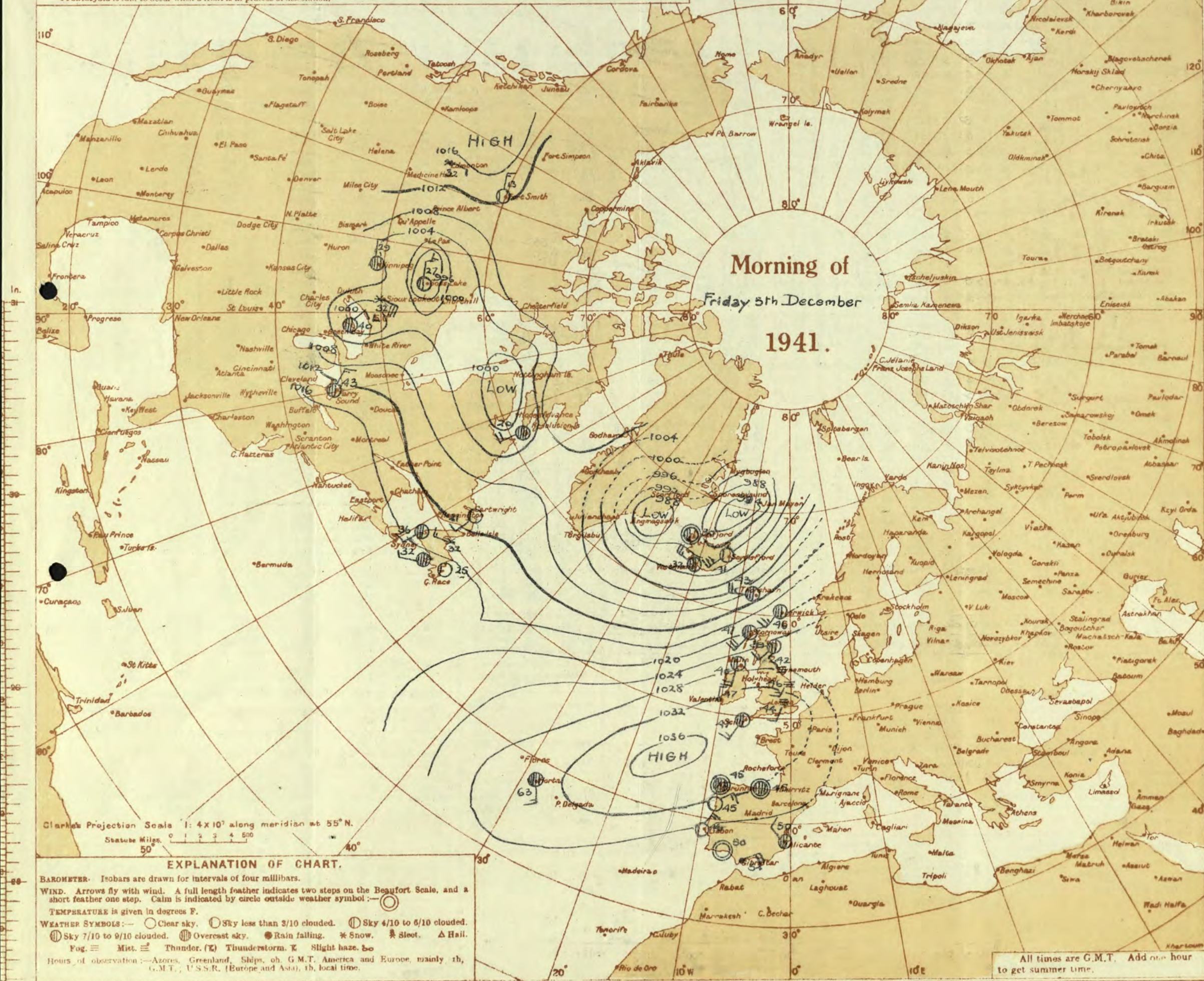
Forecasts issued at 1030 G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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

Friday 5th December, 1941.
No. 29233.

[illegible]

TERMS OF SUBSCRIPTION. { single Copies, 1d. each: by post 1½d.
2/6 per month: 8/6 per quarter: 25/- PER YEAR.

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

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

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION
Saturday 6th December 1941.
No 29234

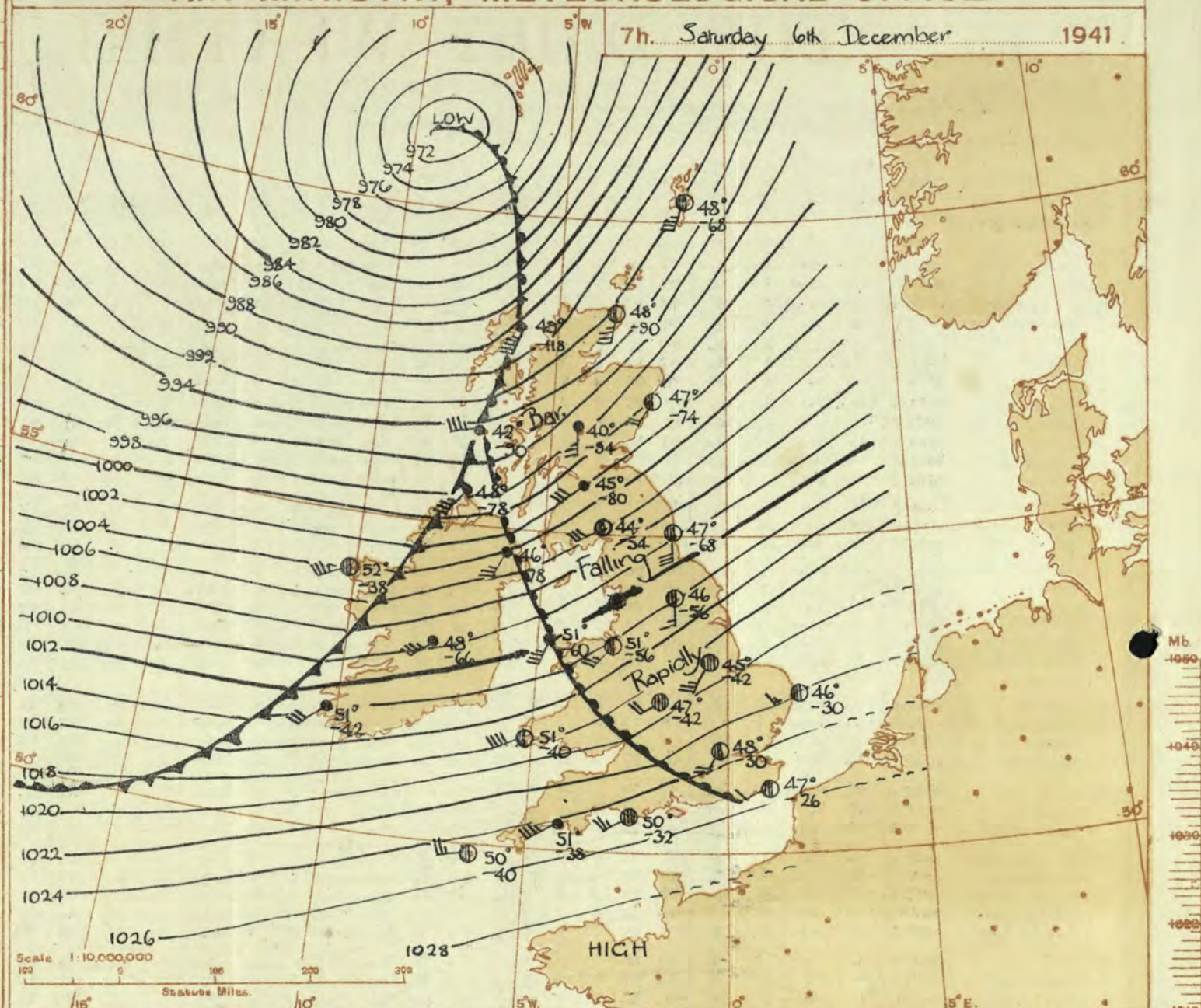
OBSERVATIONS at 13h. G.M.T. 5th December														OBSERVATIONS at 18h. G.M.T. 5th December														PAST 24 HOURS.							
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.					
				Dir.	Force. 0-12 (4)					Form.	Amount. 0-10 (12)	Height of Base. (feet) (14)	Dir.	Force. 0-12 (18)			Form.	Amount. 0-10 (25)					Height of Base. (feet) (28)	7h.—13h. 5th (37)	13h.—18h. 5th (38)	18h.—5h. 6th (39)	5h.—7h. 6th (40)								
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1032.5 1032.1 1032.8 1033.1 1033.5 1032.6 1032.6	-10 -10 -10 -10 -6 -10 -10	WSW WSW SWW SW WSW W W	2 2 3 3 2 2 2	Zo e c c Zo Zo Zo	48 49 48 48 49 48 49	65 65 65 75 75 85 65	6 6 8 7 6 6 6	5 5 5 5 5 5 5	- - - - - - -	10 10 10 10 10 9 9	10 10 10 3500 4100 3500 4000	1031.8 1031.3 1032.0 1032.4 1032.7 1032.0 1031.6	-4 -4 0 -2 +2 -2 -4	SW SSW WSW SWW W WSW WSW	2 2 3 3 2 2 3	Zo Zo Zo PR Z Z Z	47 47 47 45 49 45 45	85 75 75 85 85 75 75	6 6 6 7 5 6 6	5 5 5 5 5 5 5	- - - - - - -	10 10 9 9 10 9 4-6	10 10 9 2500 3500 3200 3500	1 1 1 0 0 1 1	*	*	*	*	cm.czo cm.czo cm.wc cm.c ofcm. cm. cm.zo	cm.czo cm.czo cm.czo cm.c cm.c cm.c cm.c	cm.czo cm.czo cm.czo cm.c cm.c cm.c cm.c	cm.czo cm.czo cm.czo cm.c cm.c cm.c cm.c	
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1032.6 1031.9 1030.4 1031.3 1029.3	-6 -6 -16 -10 -10	SW WS SW SWW SW	2 3 3 3 4	m Zo Zo Zo Zo	49 48 48 49 47	75 75 85 75 75	4 5 6 6 5	5 5 5 5 5	- - - - 7	9 9 9 9 9	3500 4000 1500 4100 4000	1031.4 1030.8 1029.2 1029.7 1028.5	-4 -2 -4 -6 -2	SSW SWW SW SW WSW	3 2 2 3 4	c m c Z Z	47 46 47 47 47	75 85 75 85 92	5 4 6 5 5	5 5 5 5 5	- - - - -	10 10 9 10 9	10 3000 1500 4100 1800	1 0 0 0 1	*	*	*	cm. cfm. cm. cfm. cm.	cm. cm.cm cm. cm. cm.	cm. cm. cm. cm. cm.	cm. 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.	coir.	coir.
4	Upper Heyford	1031.4	-10	SW	3	Zo	47	75	6	5	-	-	9	9	4500	1030.6	-2	SW	3	ir.	46	92	6	5	-	-	10	10	4000	1	*	cm.cm	coir.cm	coir.cm	coir.cm
5	Ross-on-Wye ...	1030.8	-10	SW	4	c	50	75	7	5	1	-	7-8	9	3000	1030.3	0	SW	4	c	49	85	7	5	1	-	9	10	2500	1	*	cm.ez	coir.	coir.	coir.
6	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	coir.	coir.	coir.
7	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	coir.	coir.	coir.
8	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	coir.	coir.	coir.
9	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.e	c	c	c
10	The Lizard	1033.9	-4	SW	4	c	50	75	8	5	-	-	10	10	1800	1033.6	+8	WSW	4	c	50	75	8	8	2	-	9	10	1500	0	4	c	c	c	c
11	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
12	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
13	Pembroke	1031.0	-6	SWW	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	coir.	coir.	coir.	coir.
14	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	coir.	coir.	coir.	coir.
15	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	coir.	coir.	coir.
16	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	*	irid	DDid.	DDid.	DDid.
17	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	cm	cm	cm
18	Catterick	1026.6	-18	WS	4	bc	49	65	8	1	-	9	2-3	4-6	1800	1026.6	-2	WSW	2	c	45	85	7	5	3	-	2-3	9	2500	1	3	cm	bc	bc	bc
19	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	bc	bc	bc
20	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
21	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	cm	cm	cm
22	Reafrow (Abbots L.)	1023.5	-14	SW	3	c/pr	47	85	7	8	-	-	9	9	1400	1021.8	-6	WSW	3	ir.	47	92	6	5	2	-	9	9	1000	1	*	cm.cpr	coir.	coir.	coir.
23	Esksdalemuir	1025.3	-12	SW	4	c	40	92	6	5	-	-	10	10	800	1023.7	-8	SWW	4	ir.	43	87	8	5	-	-	10	10	800	1	*	bc	cm	cm	cm
24	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	5	-	-	9	9	2500	0	3	bc	cm	cm	cm
25	Tiree	1021.0	0	W	4	c	47	85	7	8	1	-	4-6	9	1800	1019.4	-10	WSW	4	ir.	49	97	7	-	2	-	10	10	1500	1	5	pr	pr	pr	pr
26	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	5	-	-	4-6	4-6	2500	1	2	pr	pr	pr	pr
27	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	*	pr	pr	pr	pr
28	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	pr	pr	pr	pr
29	Wick	1017.2	-4	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	*	pr	pr	pr	pr
30	Sumburgh	1013.5	-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	pr	pr	pr	pr
31	Blacksod Point	1026.9	-4	WS	4	c	52	85	7	5	-	-	10	10	2500	1025.2	-12	WSW	4	c	50	92	7	-	1	-	0	0	0	0	0	0	0	0	
32	Malin Head	1023.8	-6	SW	3	pr	49	85	7	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
33	Aldergrove	1027.4	-10	SWW	3	c	46	85	7	5	3	2	7-8	9	3000	1025.8	-4	SW	3	c	47	92	7	5	-	-	10	10	1700	1	*	cm.bcc	c	c	c
34	Birr Castle	1029.9	-2	WSW	2	bc	49	85	8	5	-	5	2-3	4-6	2500	1028.6	-6	SSW	2	c	46	92	8	5	-	-	7-8	7-8	2500	1	*	bc	bc	bc	bc
35	Valentia Obay.	1031.6	-2	WS	3	c	49	85	9	5	-	-	9	9	4000	1030.0	-10	SW	3	c	47	85	9	5	1	-	4-6	7	2500	1	*	bc	bc	bc	bc
36	Roches Point	1031.4	0	NW	2	bc	49	85	8	1	3	5	1	4-6	4000	1030.8	-2	W	2	bc	46	85	8	5	7	-	2-3	4-6	2500	1	*	r	b	b	b

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 ww Vh N ₁ DDFWN	C ₁ C ₂ ww Vh N ₁ DDFWN	C ₁ C ₂ ww Vh N ₁ DDFWN	C ₁ C ₂ ww Vh N ₁ DDFWN
109 37 25854 22585		52 22745 22568	52 03745 50768
115	51 02844 24586	52 62834 20567	52 62824 86747
203 8- 02858 20628	5- 02838 20588		6- 64738 19768
206 53 02864 24227	50 02854 22124	57 62854 56467	02 63858 55768
210 57 02964 20367	54 01853 52584	5- 22855 18466	57 02834 50726
220 80 02858 24485	50 81547 21468		
230 87 25854 56587	52 02854 19488	62 61644 51568	52 64636 51668
245 57 05644 22327	50 05663 18263	57 05643 18125	5- 02757 18627
260 74 10864 21515	52 22754 55885	53 22743 53864	57 02853 51827
273 54 01753 23414	57 02743 23568	51 02744 20368	52 63755 53568
279 83 02755 21316	5- 52657 20457	5- 21648 21451	5- 02848 20628
285 10 01744 24414	23 02745 23587		
288 20 05653 20263	07 02890 20226	52 02753 54328	51 02765 51527
295 54 02854 23425	61 51644 24366	51 61747 21528	52 64647 53768
301 50 02754 24258	40 00761 24311	53 02754 22426	52 05656 17428
321 57 05663 23314	57 05852 20124	07 05690 21326	57 05654 54528
299 53 05543 24214	50 05546 24216		
292 51 17565 20125	07 02890 21226	51 05643 21328	
310	-- 01626 20246		-- 46103 20549
317 04 05590 22424	5- 51556 24256	57 08463 22228	52 51546 20428
333 52 21724 22257	10 00351 20111	51 02843 22428	52 22646 22768
334 -- 53437 24358	-- 02645 28216		-- 64547 20568
340 57 02846 22367	57 21555 00066	07 02790 18328	5- 05648 23528
136 5- 05568 21328	5- 22658 21368	5- 22538 20368	5- 05638 20428
336 52 02753 20328	62 62526 20368		
350 5- 05677 21327	5- 61657 19367		52 05645 53426
368 5- 02755 20428	5- 51638 22458	5- 62638 22368	
279 57 05664 20327	57 63657 20467	5- 21538 20568	
390 5- 08467 22347	5- 47367 22227	5- 46348 23458	5- 43348 22458
382 5- 02777 22327	57 61666 23328		57 02765 20427
438			5- 02657 20427
430 5- 05568 20248	5- 05568 26328	5- 05668 22228	5- 02768 67528
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, N₁ - 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.
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 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 DISTURBANCES. 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.

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.

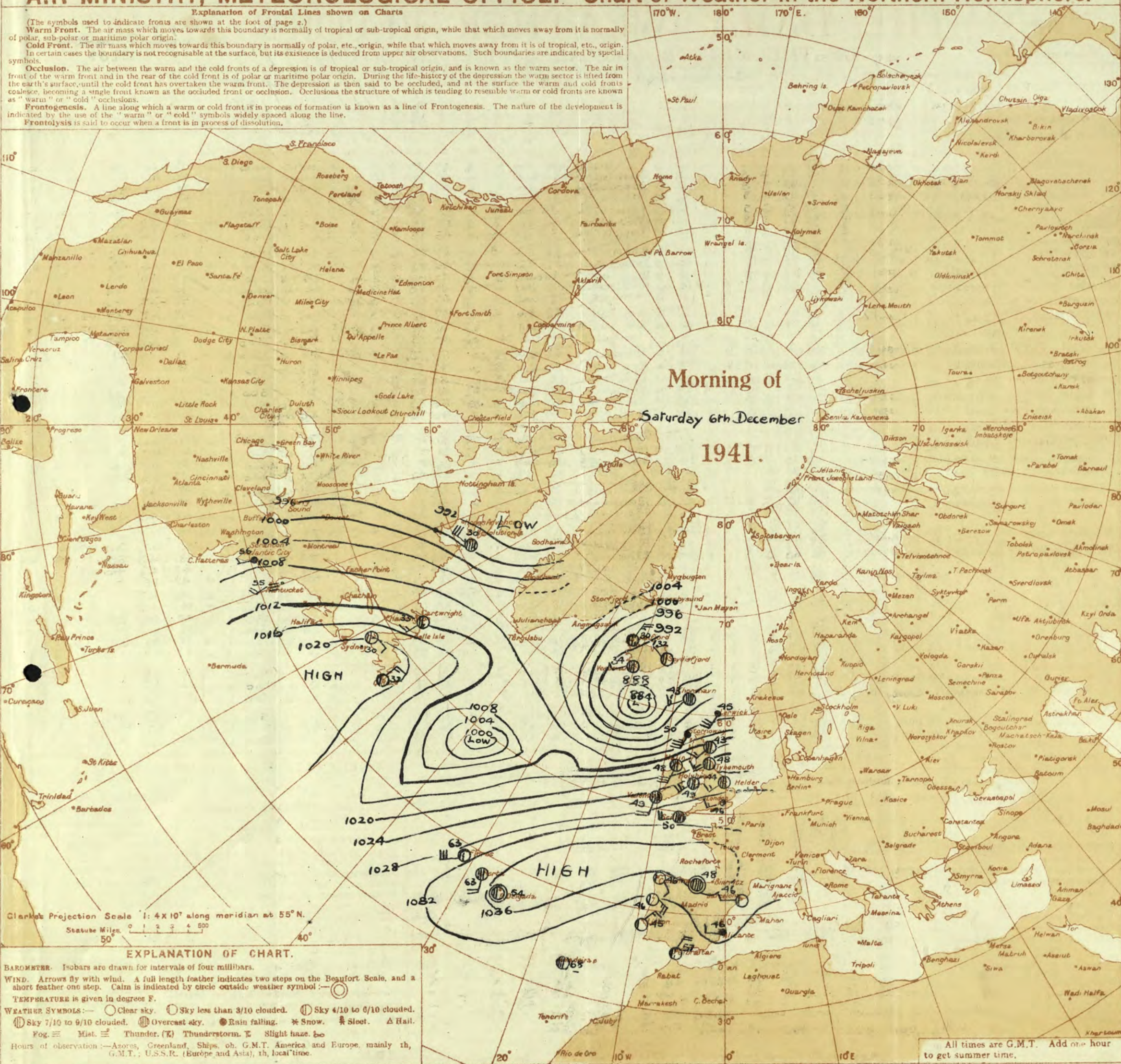
N. K. JOHNSON, D.Sc., A.R.C.S.,
Director.

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.
 In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday 6th December 1941.
No 29234

OBSERVATIONS at 1 hr. G.M.T. on December														OBSERVATIONS at 7 hr. G.M.T. on 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 Hrs. (36)		
					Dir.	Force.					Form.	Amount.	Height of Base (feet) (14)	Dir.			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)					
																																0-12	0-12		0-10	0-10
1	London (Kew)	18	1023.0	-1.8	SW	3	46	85	6	.	.	.	1023.5	-3.4	SW	4	47	85	6	5	7	6	5	7	6	5	7	6	5	48	46	44	.	.	0.2	0.0
	Croydon	217	1023.0	-1.8	SW	3	46	85	6	.	.	.	1024.2	-3.0	SW	4	48	85	6	5	7	6	5	7	6	5	7	6	5	50	46	42	.	.	0.0	0.0
	S. Farnborough	226	1023.5	-2.0	SWW	3	47	85	7	6	.	.	1024.0	-3.6	SWW	4	47	85	6	5	7	6	5	7	6	5	7	6	5	48	46	43	.	.	0.0	0.0
	Boscombe Down	417	1023.7	-2.0	WSW	3	46	82	6	5	.	.	1024.7	-3.2	SW	4	47	85	6	5	7	6	5	7	6	5	7	6	5	48	44	41	.	.	0.0	0.0
	Thorney Island	10	1030.4	-2.0	SW	3	45	75	6	5	.	.	1025.2	-3.4	SW	4	50	75	7	5	7	6	5	7	6	5	7	6	5	50	48	46	.	.	0.1	0.0
	Lynnpac	346	1020.2	-1.4	W	2	45	85	6	5	.	.	1025.6	-2.6	SW	2	47	85	6	5	3	6	5	3	6	5	3	6	5	48	44	41	.	.	0.0	0.0
	Manston	154	1023.3	-1.4	WS	4	46	85	6	5	.	.	1024.6	-3.0	SWW	5	45	85	7	5	7	6	5	7	6	5	7	6	5	49	44	40	.	.	0.0	0.0
2	Shoeburyness	11	1029.4	-1.4	SW	2	47	85	5	5	.	.	1024.2	-3.0	SW	3	47	92	6	5	7	6	5	7	6	5	7	6	5	49	47	42	.	.	0.0	0.0
	Felixstowe	15	1028.4	-1.4	WSW	4	46	92	6	5	.	.	1023.1	-3.2	SW	4	46	92	6	5	7	6	5	7	6	5	7	6	5	49	45	43	.	.	0.0	0.0
	Gorleston	5	1027.4	-1.2	SW	3	46	92	6	5	.	.	1022.4	-3.0	SWW	3	46	92	6	5	7	6	5	7	6	5	7	6	5	48	45	42	.	.	0.0	0.0
	Mildenhall	19	1027.5	-2	SW	4	47	85	6	5	.	.	1021.8	-3.8	SW	4	47	85	6	5	7	6	5	7	6	5	7	6	5	49	46	42	.	.	0.0	0.0
	Cranwell	240	1025.8	-1.8	WS	4	43	92	6	5	.	.	1015.7	-4.2	WS	5	45	92	6	5	7	6	5	7	6	5	7	6	5	48	42	40	.	.	0.0	0.0
3	Birmingham	535	1027.6	-1.6	WSW	5	50	85	7	5	.	.	1021.4	-4.2	WSW	7	50	75	8	5	2	6	5	2	6	5	2	6	5	51	49	47	.	.	0.6	0.0
	Upper Heyford	408	1028.1	-2.2	SW	4	45	92	6	5	.	.	1021.8	-4.0	WS	4	46	92	7	5	7	6	5	7	6	5	7	6	5	47	45	43	.	.	0.0	0.0
	Ross-on-Wye	223	1025.8	-1.8	WS	4	45	92	6	5	.	.	1020.9	-4.0	SW	4	47	85	7	5	7	6	5	7	6	5	7	6	5	50	46	43	.	.	0.0	0.0
4	Hartland Point	299	1027.6	-1.6	WSW	5	50	85	7	5	.	.	1021.4	-4.2	WSW	7	50	75	8	5	2	6	5	2	6	5	2	6	5	51	49	47	.	.	0.6	0.0
	Bristol	209	1028.6	-2.2	WSW	4	46	85	6	5	.	.	1022.0	-3.6	SW	5	47	85	7	5	7	6	5	7	6	5	7	6	5	49	47	43	.	.	0.0	0.0
	Portland Bill	32	1030.4	-1.4	W	4	50	92	7	5	.	.	1025.0	-3.2	SW	5	50	85	7	5	7	6	5	7	6	5	7	6	5	51	47	43	.	.	0.0	0.0
	Plymouth	82	1030.0	-1.6	WSW	5	50	85	7	5	.	.	1025.2	-3.8	SW	7	51	75	7	5	2	6	5	2	6	5	2	6	5	51	48	43	.	.	0.0	0.0
	The Lizard	240	1030.8	-1.6	SWW	5	50	75	8	5	.	.	1025.0	-3.0	WSW	6	50	75	8	5	2	6	5	2	6	5	2	6	5	50	47	43	.	.	0.0	0.0
	Scilly (St. Mary's)	163	1031.1	-1.4	WSW	4	50	75	8	5	.	.	1024.4	-4.0	WS	5	50	75	7	5	3	6	5	3	6	5	3	6	5	51	50	45	.	.	0.0	0.0
	Gemrisey	175	1025.8	-1.8	WS	4	45	92	6	5	.	.	1020.9	-4.0	SW	4	47	85	7	5	7	6	5	7	6	5	7	6	5	50	46	43	.	.	0.0	0.0
5	Pembroke	142	1027.6	-2.2	SWW	5	48	97	7	8	.	.	1018.7	-4.0	SWW	8	51	85	7	8	2	6	5	2	6	5	2	6	5	51	46	42	.	.	0.1	0.0
	Holyhead (Valley)	26	1023.0	-3.0	SW	5	43	85	8	5	.	.	1013.3	-6.0	SW	7	51	97	6	5	7	6	5	7	6	5	7	6	5	50	47	39	.	.	0.6	0.0
	Chester (Sealand)	16	1025.4	-2.2	SE	2	42	85	7	5	.	.	1015.4	-5.0	SWS	5	51	85	7	5	7	6	5	7	6	5	7	6	5	52	40	34	.	.	0.2	0.0
	Manchester	235	1025.0	-2.2	S	3	39	97	6	5	.	.	1016.2	-5.8	SE	4	44	92	6	5	7	6	5	7	6	5	7	6	5	47	39	33	.	.	0.0	0.0
10	Spurn Head	29	1025.2	-1.6	SW	3	44	85	6	5	.	.	1018.3	-2.8	SWS	5	44	85	7	5	6	6	5	6	6	5	6	6	5	48	42	40	.	.	0.0	0.0
	Catterick	175	1022.6	-2.0	SW	4	48	85	7	5	.	.	1013.1	-5.6	S	3	46	75	7	5	6	6	5	6	6	5	6	6	5	49	44	40	.	.	0.2	0.0
	Tynemouth	108	1021.2	-1.6	WSW	3	48	86	6	8	.	.	1010.6	-6.8	S	6	47	75	7	8	7	6	5	7	6	5	7	6	5	48	46	41	.	.	0.0	0.0
11	St. Abbs Head	280	1016.8	-3.6	W	4	46	92	8	4	.	.	1006.7	-6.2	SW	6	45	85	7	5	2	6	5	2	6	5	2	6	5	45	47	43	.	.	0.0	0.0
	Leuchars	36	1015.3	-3.4	SW	4	48	92	7	5	.	.	1009.0	-8.4	WSW	7	46	75	7	5	7	6	5	7	6	5	7	6	5	47	42	36	.	.	0.2	0.0
12	Renfrew (Abbots I.)	19	1016.6	-3.0	SW	4	48	85	6	5	.	.	1002.7	-8.0	SWS	6	45	80	6	5	2	6	5	2	6	5	2	6	5	48	43	39	.	.	0.4	0.0
	Eskdalemuir	794	1016.6	-3.0	SW	4	48	85	6	5	.	.	1007.8	-8.4	SW	6	44	75	8	5	1	6	5	1	6	5	1	6	5	43	42	40	.	.	0.2	0.0
	Point of Ayre	30	1021.7	-2.4	WS	4	48	92	8	8	.	.	1009.3	-6.2	SWW	6	48	85	8	8	1	6	5	1	6	5	1	6	5	49	45	40	.	.	0.1	0.0
13A	Tiree	22	1004.5	-6.6	SSW	7	50	75	7	5	.	.	995.0	-9.0	WS	9	42	85	6	5	2	6	5	2	6	5	2	6	5	50	42	38	.	.	0.1	0.0
13B	Stornoway	80	1004.5	-6.6	SSW	7	50	75	7	5	.	.	995.0	-9.0	SSW	9	42	85	6	5	2	6	5	2	6	5	2	6	5	46	42	38	.	.	0.1	0.0
15	Dalwhinnie	1176	1004.5	-6.6	SSW	7	50	75	7	5	.	.	995.0	-9.0	SSW	9	42	85	6	5	2	6	5	2	6	5	2	6	5	46	42	38	.	.	0.1	0.0
	Aberdeen	79	1008.2	-4.6	SSW	4	45	92	8	5	.	.	1000.4	-7.4	SSW	4	47	85	7	5	2	6	5	2	6	5	2	6	5	45	41	36	.	.	0.0	0.0
	Wick	119	1008.2	-4.6	SSW	4	45	92	8	5	.	.	992.7	-9.0	SW	7	48	75	8	5	2	6	5	2	6	5	2	6	5	47	39	37	.	.	0.0	0.0
16	Sumburgh	30	1005.7	-4.2	WSW	6	46	97	6	6	.	.	993.5	-6.8	SSW	7	48	85	7	5	7	6	5	7	6	5	7	6	5	48	45	42	.	.	0.0	0.0
17	Blacksod Point	18	1016.0	-5.4	WSW	6	50	75	7	5	.	.	1004.1	-3.8	SWW	7	52	97	7	3	7	6	5	7	6	5	7	6	5	52	48	44	.	.	0.0	0.0
18	Malin Head	84	1014.3	-5.2	SSW	6	48	75	7	6	.	.	998.3	-7.8	SSW	7	48	85	6	3	7	6	5	7	6	5	7	6	5	50	42	38	.	.	0.5	0.0
	Aldergrove	268	1020.6	-3.0	SSW	4	46	85	7	5	.	.	1005.4	-7.8	SSW	5	46	85	7	5	7	6	5	7	6	5	7	6	5	47	42	41	.	.	0.5	0.0
19	Birr Castle	173	1024.3	-3.8	SSW	4	49	75	9	5	.	.	1009.8	-6.8	SW	7	48	85	7	5	7	6	5	7	6	5	7	6	5	49	42	39	.	.	0.5	0.0
20	Valentia Obay.	30	1024.3	-3.8	SSW	4	49	75	9	5	.	.	1014.6	-4.2	SW	7	51	92	7	5	7	6	5	7	6	5	7	6	5	51	47	44	.	.	0.5	0.0
	Roches Point	22	1026.1	-3.0	WS	3	46	85	7	6	.	.	1017.0	-3.6	WS	6	51	92	7	6	2	6	5	2	6	5	2	6	5	52	47	44	.	.	0.0	0.0
LONDON OBSERVATIONS																																				
Day 7h-18h. Kew & Croydon.																																				
9h-18h. Kensington.																																				
9h-21h. other stations except for rainfall which is 9h-18h																																				
Height above M.S.L. in feet.																																				
Morning. Afternoon. Night.																																				
24 hrs. ended 9h.																																				
°F.																																				
°F.																																				
Min. on Grass °F.																																				
mm. mm.																																				
Yesterday. To-day.																																				
mm. mm.																																				
Sunshine to Sunset hrs.																																				
15h. G.M.T. %																																				
9h. G.M.T. %																																				
Visibility 1/4.																																				
Atmospheric Pollution.																																				
Milligrams of Solid																																				

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION
Sunday 7th December 194
No. 29,235

OBSERVATIONS at 13h. G.M.T. 6th December														OBSERVATIONS at 18h. G.M.T. 6th December														PAST 24 HOURS.									
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				State of Ground.	Sea. 0-9	WEATHER.									
				Dir.	Force.					Form.	Amount.	Height of Base. (feet)	Dir.			Force.	Form.					Amount.	Height of Base. (feet)	7h.-18h. 6h.	13h.-18h. 6h.			18h.-6h. 1h.-7h.	1h.-7h. 7h.								
																														Low.	Med.	High.	Low.	Total.	Low.	Total.	Low.	Total.
1	London (Kew) ...	1015.1	-60	SW	5	4	48	85	7	5	2	-	9	10	1500	1006.7	-46	SW	6	10	50	92	6	5	2	-	9	10	1500	1	4	overcast	overcast	overcast	overcast		
	Croydon ...	1016.3	-56	SW	5	4	48	85	7	5	2	-	9	10	1900	1007.3	-46	SW	5	10	50	92	6	5	2	-	9	10	2100	1	4	overcast	overcast	overcast	overcast		
	S. Farnborough	1016.0	-50	SW	6	4	47	86	6	5	2	-	9	10	1200	1007.9	-50	SW	5	10	50	92	6	5	2	-	10	10	1500	1	4	overcast	overcast	overcast	overcast		
	Boscombe Down	1015.8	-58	SW	5	4	48	85	7	6	1	5	4	9	1400	1008.1	-42	SW	6	10	50	85	6	5	2	-	9	10	1300	1	4	overcast	overcast	overcast	overcast		
	Thorney Island	1017.9	-50	SW	5	4	48	85	6	5	2	-	9	10	800	1010.5	-38	SW	5	10	50	92	6	5	2	-	9	10	600	1	4	overcast	overcast	overcast	overcast		
	Lymington	1019.4	-42	SW	6	4	48	85	6	5	2	-	10	10	400	1011.9	-44	SW	6	10	50	92	6	5	2	-	10	10	400	1	4	overcast	overcast	overcast	overcast		
	Manston	1017.3	-50	SW	6	4	46	85	6	5	2	-	9	10	800	1009.4	-34	SW	6	10	50	92	6	5	2	-	10	10	1200	1	4	overcast	overcast	overcast	overcast		
2	Shoeburyness ...	1016.4	-50	SW	5	4	49	85	7	5	2	-	7	8	1200	1008.8	-44	SW	5	10	50	92	6	5	2	-	9	10	1100	1	4	overcast	overcast	overcast	overcast		
	Felixstowe	1015.3	-48	SW	6	4	48	85	7	5	2	-	10	10	2500	1006.3	-52	SW	6	10	50	92	6	5	2	-	10	10	1400	1	4	overcast	overcast	overcast	overcast		
	Gorleston	1013.3	-46	SW	6	4	48	85	6	5	2	-	10	10	2000	1004.6	-44	SW	6	10	50	92	6	5	2	-	10	10	1500	1	4	overcast	overcast	overcast	overcast		
	Mildenhall	1012.6	-58	SW	6	4	48	85	6	5	2	-	7	8	1200	1003.5	-44	SW	6	10	50	92	6	5	2	-	9	10	2300	1	4	overcast	overcast	overcast	overcast		
	Cranwell	1007.6	-56	SW	6	4	48	85	7	5	2	-	9	9	1000	1001.8	-22	WN	4	10	46	92	6	5	2	-	4	6	1000	1	4	overcast	overcast	overcast	overcast		
3	Birmingham	1009.6	-54	SSW	5	4	46	92	6	6	-	-	10	10	800	1003.7	-26	WNW	3	10	47	92	6	5	2	-	10	10	800	1	4	overcast	overcast	overcast	overcast		
4	Upper Heyford	1012.4	-46	SW	5	4	48	85	7	5	7	-	7	8	1500	1004.9	-44	SW	5	10	48	92	6	5	2	-	7	8	1000	1	4	overcast	overcast	overcast	overcast		
	Ross-on-Wye	1010.5	-60	SW	6	4	49	85	6	6	1	-	9	10	800	1003.2	-48	SW	6	10	47	92	6	5	2	-	10	10	800	1	4	overcast	overcast	overcast	overcast		
5	Hartland Point	1012.9	-36	WSW	7	5	49	97	6	6	2	-	7	8	800	1004.3	-24	WSW	7	10	51	92	6	5	2	-	7	8	800	1	4	overcast	overcast	overcast	overcast		
	Bristol ...	1013.7	-40	SW	5	4	50	75	7	5	-	-	10	10	1800	1005.9	-44	SW	6	10	50	92	6	5	2	-	9	10	600	1	4	overcast	overcast	overcast	overcast		
	Portland Bill	1016.8	-52	SW	6	4	52	92	7	5	7	-	7	8	2500	1009.4	-34	SW	6	10	52	92	7	5	2	-	10	10	2500	1	4	overcast	overcast	overcast	overcast		
	Plymouth	1017.8	-42	SW	7	5	52	85	6	5	2	-	7	8	1500	1009.8	-44	SW	8	10	51	97	6	5	2	-	9	10	1000	1	4	overcast	overcast	overcast	overcast		
	The Lizard	1017.8	-50	WSW	7	5	52	85	7	5	-	-	10	10	1500	1010.1	-48	WSW	7	10	51	92	7	5	2	-	10	10	1000	1	4	overcast	overcast	overcast	overcast		
	Soilly (St. Mary's)	1017.3	-42	WS	6	4	51	97	6	5	-	-	10	10	1000	1009.0	-64	WSW	6	10	52	97	6	5	2	-	7	8	1000	1	4	overcast	overcast	overcast	overcast		
	Guernsey	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Pembroke	1010.0	-46	SWW	9	4	52	97	6	8	-	-	10	10	1500	1004.4	-6	WNW	5	10	48	97	5	8	-	-	9	10	1500	1	4	overcast	overcast	overcast	overcast		
7	Holyhead (Valley)	1003.1	-46	WSW	8	4	52	92	6	6	2	-	9	10	500	1001.8	-14	WNW	5	10	46	65	7	5	4	6	2	3	9	2000	1	4	overcast	overcast	overcast	overcast	
	Chester (Sealand)	1003.9	-46	SWW	6	4	52	85	6	5	2	-	4	6	600	1001.9	-8	W	3	10	47	75	6	5	3	-	4	6	2000	1	4	overcast	overcast	overcast	overcast		
8	Manchester	1004.3	-58	SW	6	4	48	97	6	6	2	-	9	10	400	1001.9	-4	SW	3	10	45	85	6	4	3	-	4	6	3500	1	4	overcast	overcast	overcast	overcast		
10	Spurn Head	1005.2	-66	SW	6	4	48	85	7	6	2	-	7	8	1500	1000.1	-4	SSW	3	10	47	85	7	6	2	-	7	8	10	1500	1	4	overcast	overcast	overcast	overcast	
	Catterick	999.0	-78	SW	5	4	50	75	6	6	2	-	2	3	10	800	999.8	-8	W	5	10	44	65	7	5	3	-	7	8	1	2500	1	4	overcast	overcast	overcast	overcast
	Tynemouth	997.4	-60	SW	6	4	52	85	6	-	2	-	10	10	1500	996.0	-6	W	6	10	45	75	7	2	-	-	2	3	2	2500	1	4	overcast	overcast	overcast	overcast	
11	St. Abbs Head	993.2	-32	SW	7	4	40	75	8	5	4	-	4	6	9	1000	991.0	-16	W	7	10	40	85	8	4	-	-	2	3	2	2500	1	4	overcast	overcast	overcast	overcast
	Leuchars	991.6	-24	WSW	7	4	46	92	7	8	-	-	9	9	1200	989.3	-12	WSW	6	10	41	85	9	3	-	-	7	8	1	1500	1	4	overcast	overcast	overcast	overcast	
12	Renfrew (Abbots L.)	995.2	-8	W	5	4	46	75	7	9	-	-	4	6	7	1000	993.6	-14	WNW	5	10	42	75	8	2	-	-	1	1	1800	1	4	overcast	overcast	overcast	overcast	
	Eskdalemuir	997.1	-30	W	5	4	43	85	8	6	7	-	4	6	9	450	995.4	-12	WSW	4	10	39	85	6	-	2	-	10	10	450	1	4	overcast	overcast	overcast	overcast	
	Point of Ayre	1000.2	-24	WNW	7	4	49	85	8	8	1	-	7	8	9	3000	998.3	-10	WNW	7	10	46	75	8	4	4	-	2	3	3	3000	1	4	overcast	overcast	overcast	overcast
13	Three ...	993.6	0	WNW	7	4	46	65	7	8	-	-	4	6	4	1500	992.9	0	WNW	7	10	43	65	7	8	-	-	7	8	1500	1	4	overcast	overcast	overcast	overcast	
13	Stornoway	983.0	-52	WSW	8	4	42	85	7	5	7	-	7	8	9	1500	983.4	-6	WSW	8	10	43	85	7	8	7	-	7	8	9	1500	2	4	overcast	overcast	overcast	overcast
15	Dalwhinnie	990.0	-10	SSW	5	4	38	85	7	5	9	-	7	8	9	2500	990.4	-6	SW	5	10	35	85	6	5	-	-	9	9	1500	4	4	overcast	overcast	overcast	overcast	
	Aberdeen	987.7	-18	WSW	5	4	49	55	9	1	7	-	1	2	3	1500	986.5	-6	W	4	10	40	75	8	5	-	-	7	8	2900	1	4	overcast	overcast	overcast	overcast	
	Wick	980.8	-38	SW	8	4	42	92	7	5	-	-	10	10	700	979.9	-22	WSW	6	10	38	85	7	3	6	-	7	8	7	1000	1	4	overcast	overcast	overcast	overcast	
16	Sumburgh	974.2	-102	WSW	9	4	45	85	8	9	-	-	7	8	7	1200	969.3	-26	WNW	10	10	45	85	8	8	-	-	7	8	7	1500	1	4	overcast	overcast	overcast	overcast
17	Blacksod Point	1004.6	-6	W	6	4	49	75	8	2	6	-	4	6	7	1500	1003.7	-4	WNW	6	10	46	75	7	5	-	-	9	9	1500	0	5	overcast	overcast	overcast	overcast	
18	Malin Head	998.2	+2	W	8	4	42	75	6	3	-	-	9	9	800	996.7	-6	W	8	10	46	65	6	9	-	-	9	9	800	1	4	overcast	overcast	overcast	overcast		
	Aldergrove	1001.2	+2	W	4	4	43	85	9	3	-	-	1	1	2000	999.7	-10	WS	4	10	42	75	8	8	-	-	4	6	10	3000	1	4	overcast	overcast	overcast	overcast	
19	Birr Castle	1006.2	0	W	4	4	49	85	8	9	2	-	7	8	9	1500	1003.9	-10	WSW	2	10	44	75	8	-	-	0	0	-	1	4	overcast	overcast	overcast	overcast		
20	Valentia Obey. †	1009.9	-14	WS	3	4	49	97	6	5	2	-	4	6	10	1500	1006.8	-8	WNW	4	10	48	75	8	5	2	-	7	8	10	2500	1	4	overcast	overcast	overcast	overcast
	Roches Point	1008.7	-38	WS	6	4	53	92	7	6	2	-	7	8	10	800	1004.3	-22	WNW	5	10	47	97	7	6	2	-	7	8	10	800	1	4	overcast	overcast	overcast	overcast

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_o, slight rain.
rr, continuous rain.
<, less than (for cloud height). /gale.
☉ Solar halo. ☾ lunar halo. ☄ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

1 .. Ground dry.	7 .. Ground covered with snow, less than 6 ins., deep but
2 .. " wet.	ground not frozen.
3 .. " flooded.	8 .. " covered with snow, less than 6 ins., but
4 .. " frozen hard and dry.	ground frozen.
5 .. " partly covered with snow or hail.	9 .. " covered with snow greater than 6 ins. deep.
6 .. " covered with ice or glazed frost.	10 .. Fresh snow has fallen in the mountains.
7 .. " covered with thawing snow.	

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

7th Sunday 7th December 1941

7h Sunday 7th December 1941

Scale 1000 100000000

Statute Miles.

Bar Rising Rapidly

Bar Falling Slowly

Bar Rising Slowly

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See M.O. 252.
N = Total amount of cloud—See M.O. 252.
C, C_N = 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).

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.

= Occluded Front (or Occlusion)

= Warm Occlusion

= Cold Occlusion

= Lines of Frontogenesis

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

GENERAL INFERENCE.

A 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 ~~the North~~ **the North** spreading Southeast across Scotland.

Warning of N.W. gale in operation in districts 2, time of issue 0215h on 6.12.41. in districts 6, 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.

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

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

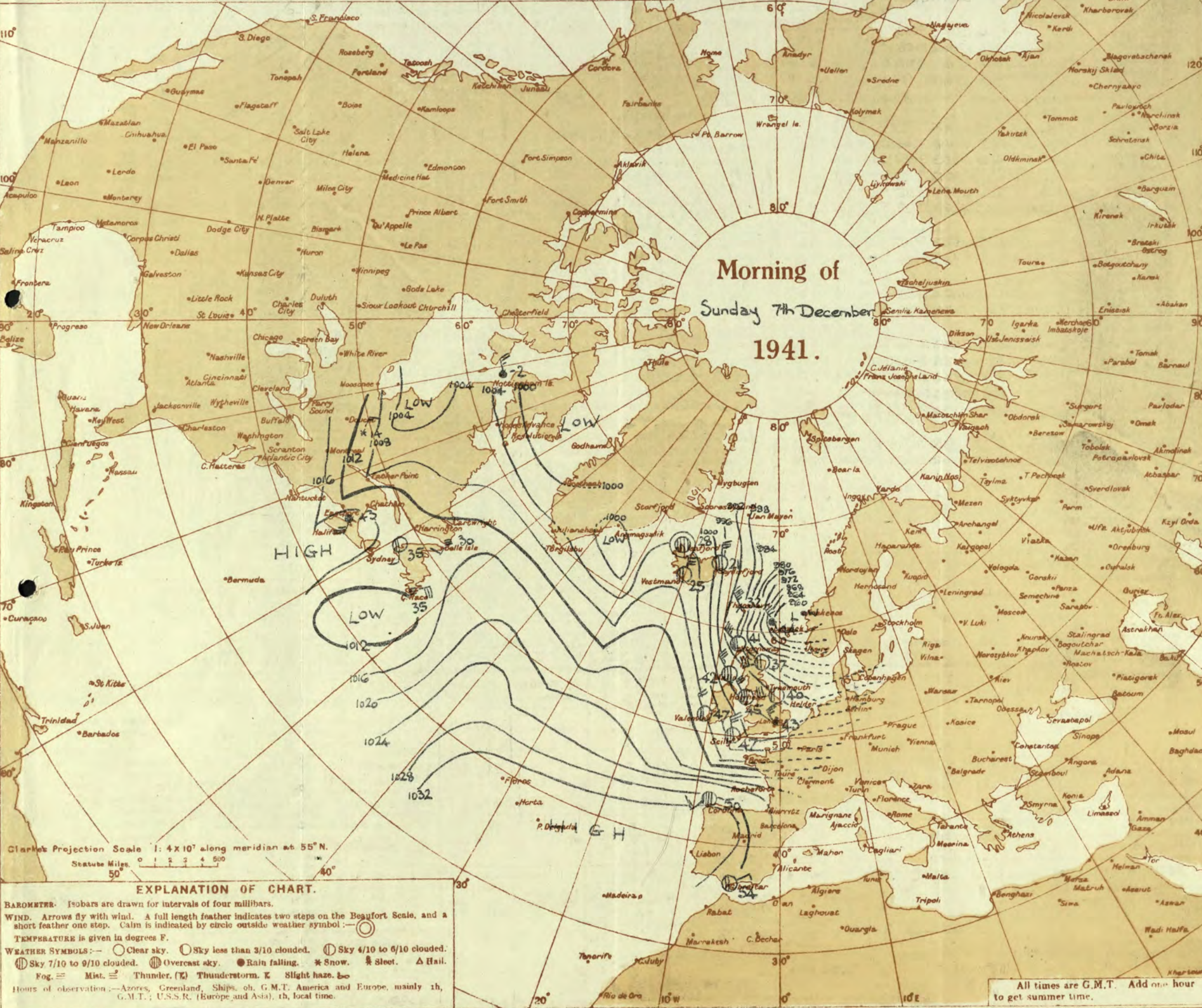
H.M.S.O. Press, Meteorological Office, Dunstable.

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.

Morning of
 Sunday 7th December
 1941.



THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday 7th December 1941
No. 29235

[illegible]

LONDON OBSERVATIONS.													EXPLANATION OF FIGURES, LETTERS, etc.												
Day 7h—18h. Kew & Croydon. 9h—18h. Kensington. 9h—21h. other stations except for rainfall which is 9h—18h.													Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.												
Height above sea level in feet.	Weather.			Temperature.			Rainfall.		Sun-shine, to Sunset, hrs.	Humidity.		Visibility in miles.	COLUMNS 2, 16. The barometric tendency is expressed in tenths of a millibar.												
	Morning.	Afternoon.	Night.	Day Max.	Night Min.	Min. on Grass °F.	Day.	Night.		15h. G.M.T. %	9h. G.M.T. %								Yesterday.		To-day.				
	24 hrs. ended 9h.			°F.	°F.	°F.	mm.	mm.							24 hrs. ended 7h. G.M.T.										
Kew	18	c. 51.0	c. 51.0	c. 51.0	50	40	36	0.4	15	0.0	.	.	.	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.											
CROYDON	217	c. 51.0	c. 51.0	c. 51.0	50	30	35	0.6	10	0.0	.	.	.							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 1½ miles. 5 Poor visibility 2½ " " 6 Moderate " 6½ " " 7 Good " 12½ " " 8 Very good " 31 " " 9 Excellent " beyond 31m.					
GREENWICH (Royal Observatory)...	149	c. 51.0	c. 51.0	c. 51.0	51	30	32	7	22	.	.	.	83	82	COLUMNS 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.										
CITY (Bunhill Row)	—							COLUMNS 34, 35. Tr. = rain has fallen, but amount less than 0.1 mm.				
WESTMINSTER (St. James' Park) ...	27	.	.	.	52	40	38	.	18	.	.	.	73	93	COLUMNS 36, 37. The barometric tendency is expressed in tenths of a millibar.										
REGENTS PK. (Botanic Gardens)...	168							COLUMNS 38, 39. The barometric tendency is expressed in tenths of a millibar.				
GARDEN SQUARE	110	.	.	.	51	40	38	.	21	.	.	.	.	.	COLUMNS 40, 41. The barometric tendency is expressed in tenths of a millibar.										
KENSINGTON	80	.	.	.	51	40	34	0.1	21	.	.	.	81	86							COLUMNS 42, 43. The barometric tendency is expressed in tenths of a millibar.				
HAMPSHIRE OBSERVATORY	450	.	.	.	43	37	35	7	20	.	.	.	.	.	COLUMNS 44, 45. The barometric tendency is expressed in tenths of a millibar.										
FOREIGN OBSERVATIONS.													Atmospheric Pollution.												
Evening of 6th December.													Morning of 7th December.												
Past 24 Hours.													Past 24 Hours.												
Barom. mb.													Barom. mb.												
Wind.													Wind.												
Temp. °F.													Temp. °F.												
Max. Day °F.													Max. Day °F.												
Min. Night °F.													Min. Night °F.												
Rainfall.													Rainfall.												
Day mm.													Day mm.												
Night mm.													Night mm.												
Weather.													Weather.												
Stations.													Stations.												
Reykjavik (18h and 07h)													Reykjavik (18h and 07h)												
Lisbon (18h and 07h)													Lisbon (18h and 07h)												
Madrid (18h and 07h)													Madrid (18h and 07h)												
Cairo (Heliopolis) (18h and 06h) ...													Cairo (Heliopolis) (18h and 06h) ...												
Toronto (13h and 01h)													Toronto (13h and 01h)												
Washington (13h and 01h)													Washington (13h and 01h)												

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

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

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

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION

Monday 8th December 1941.

No. 19236

OBSERVATIONS at 13h. G.M.T. 7th December														OBSERVATIONS at 18h. G.M.T. 7th December														PAST 24 HOURS.							
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 8 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. m. (8)	Cloud.				Barom. at M.S.L. (15)	Change in 8 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. m. (22)	Cloud.				Barom. at M.S.L. (28)	State of Ground. (29)	Sea. (30)	WEATHER.						
				Dir.	Force. 0-12 (4)					Form.	Amount. Low 0-10 Total 0-10 (11) (12)	Height of Base. (feet) (14)	Form.			Amount. Low 0-10 Total 0-10 (23) (24)	Height of Base. (feet) (28)					7h.—13h. 7th Dec.	13h.—18h. 7th Dec.	18h. 7th Dec. to 1h. 8th Dec.	1h.—7h. 8th Dec.										
1	London (Kew)...	997.4	+14	NW	4	z	42	65	6	5	-	9	9	1500	998.5	+10	WSW	3	z	40	65	6	5	-	7-8	7-8	2500	1	*	mabcz	cbccz	grbec	bmoz		
	Croydon ...	1006.9	+6	NW	4	c	40	75	6	8	-	4-6	9	2000	998.2	+6	W	3	z	37	75	6	-	3	-	0	7-8	-	1	*	cmoz	czbz	trphx	bxbmoz	
	S. Farnborough	998.0	+10	NW	4	c	42	65	8	2	-	7-8	7-8	2500	997.3	+6	W	4	b	37	75	8	4	-	Tr	Tr	2500	1	*	cbc	cbcb	b, cprg, bx	bx		
	Boscombe Down	999.5	+8	NNW	5	c	42	75	8	2	-	7-8	7-8	2500	1000.8	+6	WN	3	bc	37	75	7	5	-	1	2-3	2000	1	*	prc	cprb	b, cprg, bx	b, cprg, bx		
	Thorney Island	998.3	+2	WNW	5	z	43	75	9	2	-	7-8	7-8	2500	1000.1	+6	NNW	4	b	39	75	7	5	-	Tr	Tr	2500	1	*	cprg	b, cprg	b, cprg	b, cprg		
	Lymington	996.7	+2	NW	4	z	41	75	6	2	-	4-6	4-6	2500	998.6	+14	WNW	4	z	35	75	5	-	-	0	0	-	1	84	*	cbccz	cbccz	pr, bmoz	pr, bmoz	
	Manston	995.3	+6	WNW	5	c	42	65	7	2	-	7-8	7-8	2000	996.6	+10	WN	4	z	38	75	6	1	-	Tr	Tr	2000	1	*	cm, cbc	bc, bz	bc, bz	bc, bz		
2	Shoeburyness ...	996.1	+4	WN	4	bc	42	75	7	1	-	2-3	2-3	2500	997.4	+6	WNW	4	b	37	85	6	-	-	0	0	-	1	4	*	cm, bc	bc, bz	bc, bz	bc, bz	
	Felixstowe	994.3	+10	WNW	6	bc	42	75	8	1	-	2-3	2-3	1500	995.5	+10	WNW	6	b	39	75	6	-	-	0	0	-	1	3	*	bc	bc, bz	bc, bz	bc, bz	
	Gorleston	992.9	+4	WNW	4	bc	40	75	7	2	-	2-3	2-3	3000	993.8	+6	W	3	z	40	65	6	-	-	0	0	-	1	3	*	bc	bc, bz	bc, bz	bc, bz	
	Mildenhall	994.2	+2	W	4	z	41	75	6	1	-	Tr	2-3	2500	995.1	+6	W	4	bc	37	85	7	5	-	4-6	4-6	4000	0	*	cb	bc	bc	bc		
	Cranwell	994.3	+4	WNW	5	z	41	65	6	1	4	Tr	4-6	2000	994.9	+4	WNW	3	z	36	75	6	-	-	0	0	-	1	*	cm, bc	bc, bz	bc, bz	bc, bz		
3	Birmingham	998.5	+10	WNW	4	bc	37	85	6	8	-	4-6	4-6	1500	998.9	+2	WNW	3	bc	33	97	6	-	-	4-6	4-6	1500	6	*	beps	eps	beps	bc		
	Upper Heyford	997.3	+10	WNW	4	bc	40	75	8	2	4	-	1	2000	998.4	+10	NW	4	ps	38	65	6	8	-	9	9	1000	1	*	bc, bc	bc, bc	bc, bc	bc, bc		
4	Ross-on-Wye	999.6	+6	WNW	4	bc	43	55	8	8	-	2-3	2-3	3500	1000.0	0	W	4	bc	39	75	8	1	-	4-6	4-6	3000	1	*	bc	bc	bc	bc		
5	Hartland Point	1003.6	+12	NW	5	c	44	65	8	5	-	7-8	7-8	1500	1004.0	+2	NW	4	c	45	55	7	8	-	7-8	7-8	1500	1	5	*	cprc	cy	cprc	cbcc	
	Bristol ...	1000.3	+14	NW	4	bc	42	65	7	2	4	2-3	2-3	2000	1001.3	+2	WNW	4	c	39	75	7	4	-	7-8	7-8	2000	1	5	*	cb	cprb	crr, c	bbee	
	Portland Bill	1000.2	-8	WNW	4	bc	45	85	8	2	-	4-6	4-6	4000	1002.4	+8	NW	5	c	44	85	8	5	-	7-8	7-8	4000	1	5	*	bc	cb	bc	bbee	
	Plymouth	1000.7	+16	NNW	4	c/pr	44	65	7	9	-	9	9	1800	1005.1	+10	NW	5	bc	43	65	8	4	-	2-3	2-3	3000	1	4	*	cpr	cb	bc	cbcc	
	The Lizard	1003.2	+12	NW	6	bc/pr	44	75	8	2	6	4-6	4-6	2500	1006.1	+4	NW	5	c	44	65	8	8	6	7-8	7-8	1500	0	3	*	cprbc	bec	cprc	bcprc	
	Soilly (St. Mary's)	1007.0	+10	NW	5	bc	47	45	8	6	-	4-6	4-6	1500	1007.9	+6	NNW	5	cjp	45	65	8	8	-	7-8	7-8	1500	1	4	*	cprbc	bec	cprc	cp	
6	Pembroke	1003.7	+8	WN	6	bc	44	75	8	2	-	4-6	4-6	2500	1003.5	-2	WNW	7	cj	46	75	8	8	-	7-8	7-8	2500	1	4	*	cbcc	cbcc	cbcc	cbcc	
7	Holyhead (Valley)	999.5	+4	NW	6	bc	43	65	8	2	-	4-6	4-6	2000	999.9	+6	WNW	6	bc	42	75	8	3	-	4-6	4-6	1500	1	5	*	cprbc	cprbc	cprbc	cprbc	
	Chester (Sealand)	997.2	+2	WNW	5	c/pr	39	85	8	3	6	7-8	7-8	1000	997.8	+13	WNW	6	bc	39	75	6	9	-	4-6	4-6	800	1	*	cprbc	cprbc	cprbc	cprbc		
8	Manchester	996.5	+4	WNW	6	bc	41	65	7	4	6	2-3	2-3	3000	996.8	+4	WN	3	b	35	97	7	3	-	1	1	2500	1	*	prbc	prbc	prbc	prbc		
10	Spurn Head	991.5	-2	WNW	6	bc	41	65	7	-	4	3	0	4-6	-	992.3	+4	WNW	6	b	40	65	7	-	0	0	-	0	4	*	bc	bc	bc	bc	
	Catterick	993.3	+2	WNW	4	b	40	55	8	2	3	-	Tr	1	2500	994.4	+8	WNW	4	bc	37	55	7	5	-	2-3	2-3	4000	1	5	*	bc	bc	bc	bc
	Tynemouth	991.1	-4	W	5	bc	38	65	7	-	4	-	0	2-3	-	992.3	+8	NW	5	bc	37	65	7	2	-	4-6	4-6	2500	1	5	*	bc	bc	bc	bc
11	St. Abbs Head	989.1	+2	NW	6	bc	39	65	8	8	4	4-6	4-6	2500	989.5	+4	NW	7	bc	38	85	8	4	-	4-6	4-6	2500	0	4	*	cprbc	psbc	cbcc	cbcc	
	Leuchars	990.8	+8	WNW	6	bc	35	92	8	8	6	4-6	4-6	2200	991.6	+10	WNW	6	bc	37	65	9	4	-	4-6	4-6	2200	1	*	bc	bc	bc	bc		
12	Renfrew (Abbots L.)	994.5	+4	NNW	5	bc	40	55	9	3	-	2-3	2-3	1800	996.2	+14	NW	4	b	37	65	8	5	-	1	1	1800	1	*	bc	bc	bc	bc		
	Eskdalemuir	992.9	+2	NW	6	b	36	65	8	7	-	1	1	2500	994.4	+10	WNW	5	b	32	75	8	7	-	Tr	1	2500	3	*	bc	bc	bc	bc		
	Point of Ayre	996.6	-4	NW	7	cjp	43	75	8	9	-	7-8	7-8	2000	997.7	+8	N	7	b	42	75	8	9	4	Tr	1	1500	1	6	*	prc	prc	prc	prc	
13A	Tiree	997.6	+4	NW	6	bc	43	65	8	8	-	4-6	4-6	2500	997.8	+20	N	6	bc	43	65	8	8	-	4-6	4-6	1800	0	6	*	prbc	bc	bc	bc	
13B	Stornoway	994.1	+6	NW	7	c/pr	39	85	7	3	6	4-6	4-6	2000	997.0	+14	NW	6	bc	37	85	7	3	6	4-6	4-6	1500	4	*	cprbc	bc	bc	bc		
15	Dalwhinnie	992.0	+6	NW	3	ps	31	85	7	8	-	9-10	9-10	1500	995.2	+18	NNW	3	ps	31	85	7	8	-	9-10	9-10	2500	8	*	bc	bc	bc	bc		
	Aberdeen	985.9	+6	WNW	6	ps	37	55	6	3	-	10	10	1500	988.3	+26	NNW	6	pr	36	92	7	3	-	4-6	4-6	1500	1	4	*	bc	bc	bc	bc	
	Wick	984.8	+10	NW	9	c/pr	36	85	6	9	7	7-8	7-8	800	989.8	+34	WNW	7	pr	37	85	7	3	6	3	7-8	9	1000	1	7	*	bc	bc	bc	bc
16	Sumburgh	976.6	+42	NNW	8	bc	42	92	6	6	-	10	10	1000	983.7	+46	NW	8	c/pr	40	92	7	8	-	9	9	1200	1	7	*	bc	bc	bc	bc	
17	Blackod Point	1006.8	+4	WNW	4	c/pr	44	85	8	9	6	2-3	2-3	2500	1007.2	+8	NNW	5	c/pr	45	75	8	9	-	9	9	2500	1	5	*	prc	prc	prc	prc	
18	Malin Head	999.4	-4	NW	8	c/pr	44	65	7	9	-	9	9	1500	1001.7	+14	NNW	5	pr	40	85	6	3	-	9-10	9-10	800	1	6	*	bc	bc	bc	bc	
	Aldergrove	999.5	-2	WNW	4	c/pr	39	85	8	9	6	3	4-6	7-8	2000	1000.8	+4	NW	3	bc	37	85	8	5	-	4-6	4-6	1800	1	*	bc	bc	bc	bc	
19	Birr Castle	1005.6	0	NNW	2	bc	44	65	8	5	-	4	2-3	4-6	2500	1005.3	+6	N	2	c	40	85	8	5	1	7-8	9	2500	1	*	bc	bc	bc	bc	
20	Valentia Obey	1009.9																																	

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

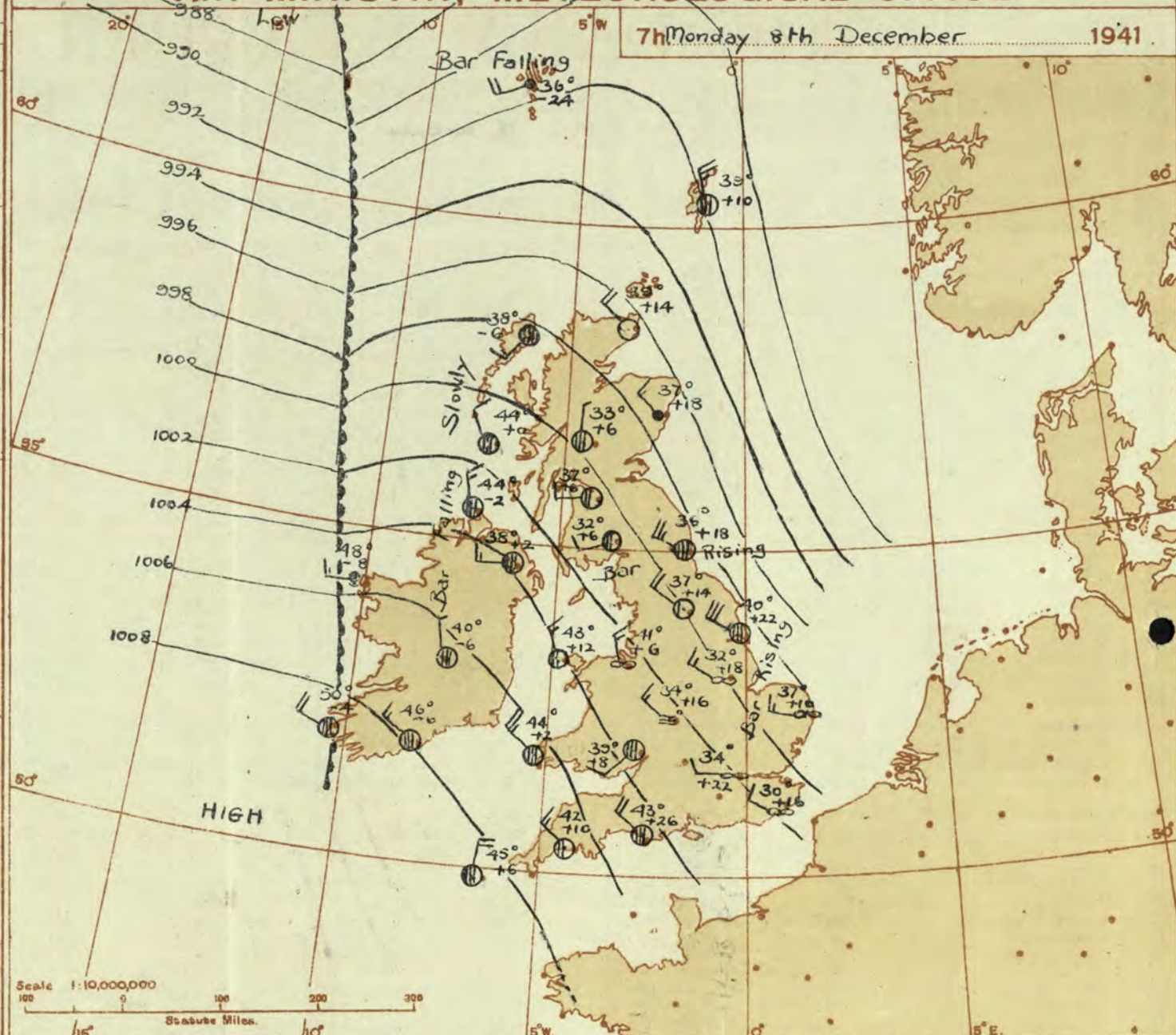
COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.		COLUMNS 9, 23.—FORM OF LOW CLOUD.		COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.		COLUMNS 11, 25.—FORM OF CIRRUS CLOUD
--	--	-----------------------------------	--	---------------------------------------	--	--------------------------------------

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 7th Dec.	15h. 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 83 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			
295 3- 25845 62485 26 25844 62485 37 25854 30485 57 01853 28215			
301 30 00742 62682 20 00741 61781 20 00753 61613 4- 02755 62315			
321- 01790 24414 50 05651 26401 03 05650 60414 04 05650 26413			
299 54 01752 26303 5- 02847 26627			
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			
332- 01857 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 91745 28285 54 02755 24286			
379 20 01852 28512 50 01854 26484 20 00850 28470 03 00790 28441			
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_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.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 8th December 1941
1 S.E. England	Moderate North West winds backing Westward 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
— Warm Front above the ground
— Cold Front on the surface
— Cold Front above the ground
NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

GENERAL INFERENCE.
A ridge of 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.

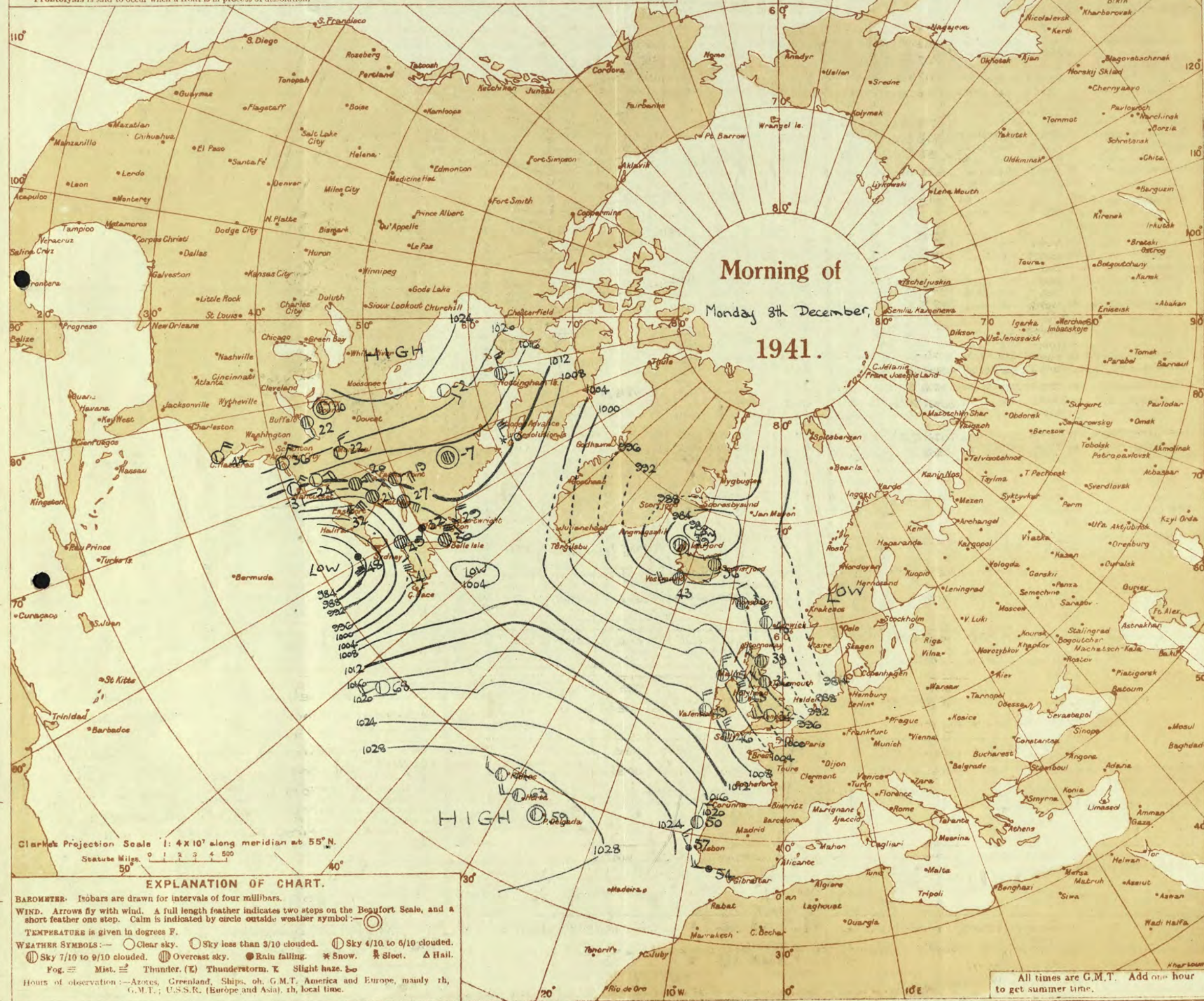
FURTHER OUTLOOK.
Continuing unsettled; probably rather disturbed generally.
Gale warning in operation in district 16.
Time of issue 2245 on 5-12-41

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Monday 8th December 1941.
No. 22236.

OBSERVATIONS at 1 hr. G.M.T. 8th December															OBSERVATIONS at 7 hr. G.M.T. 8th 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. 0-9 (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.		SUNSHINE 7th-7th Hrs. (36)					
					Dir.	Force. 0-12 (4)				Form.	Amount. (12)	Height of Base. (feet) (14)	Dir.	Force. 0-12 (18)			Weather. (19)	Form.				Amount. (26)	Height of Base. (feet) (28)	Max. Day 7th-18th °F. (31)	Min. Night 18th-7th °F. (32)	Min. on Grass °F. (33)			Day 7th-18th mm. (34)	Night 18th-7th mm. (35)									
																															Low. (9)	Med. (10)	High (11)		Low (13)	Med. (14)	High (15)	Low (23)	Med. (24)
1	London (Kew) ... 18	217	999.0	+4	WSW	4	35	92	7	-	-	-	-	1002.3	+16	W	2	Zo	34	85	6	5	-	-	Tr	Tr	2500	1	*	43	34	27	-	1	4.4				
	Croydon ... 217	999.0	+4	WSW	4	34	92	7	-	-	-	-	-	1002.2	+22	W	2	Zo	34	85	6	5	-	-	Tr	Tr	2500	1	*	42	33	26	-	1	3.0				
	S. Farnborough ... 226	1000.0	+2	WNW	3	35	88	8	-	-	-	-	-	1002.7	+18	WNW	2	b	34	85	7	-	3	-	-	Tr	-	1	*	43	33	28	-	0.5	5.0				
	Boscombe Down ... 417	1001.9	+4	WNW	4	35	85	8	-	-	-	-	-	1004.5	+18	WNW	3	c	35	85	8	5	-	-	7-8	7-8	4000	1	*	43	34	30	0.5	1	9.4				
	Thorney Island ... 10	1000.7	+2	NW	4	37	82	8	1	4	8	Tr	1	4000	1003.5	+18	WNW	2	b	35	72	8	2	4	-	Tr	-	1	*	45	34	28	0.3	Tr	4.8				
	Lymington ... 346	999.4	+4	WNW	2	32	92	6	-	4	-	0	Tr	-	1001.8	+16	WNW	2	Zo	30	92	6	-	4	-	0	Tr	-	1	3	43	30	26	-	-	4.8			
	Manston ... 154	1007.6	+6	WNW	4	36	75	6	-	-	-	0	0	-	1000.0	+14	NW	4	Zo	36	75	6	-	3	-	0	1	-	1	*	44	34	30	-	-	3.6			
2	Shoeburyness ... 11	998.6	+4	NW	3	34	85	6	-	-	-	0	0	-	1001.2	+10	WNW	1	b	34	85	5	-	2	-	0	1	-	1	*	43	35	31	-	-	4.0			
	Felixstowe ... 15	997.6	+10	WNW	5	36	85	7	-	-	-	0	0	-	999.4	+18	WNW	5	bc	35	75	7	5	-	-	4-6	4-6	7200	1	*	42	33	28	-	-	4.0			
	Gorleston ... 5	995.0	+8	WNW	4	34	85	6	5	3	-	4-6	7-8	2500	997.0	+10	WNW	3	Zo	37	75	6	5	3	-	4-6	4-6	2500	0	3	42	33	28	-	-	4.0			
	Mildenhall ... 19	996.5	+4	W	4	33	85	6	-	4	-	0	2-3	-	999.5	+18	WNW	4	Zo	32	85	6	-	3	-	0	2-3	-	0	*	42	31	25	-	Tr	2.6			
	Cranwell ... 240	997.4	+14	WNW	4	33	75	6	-	3	-	0	4-6	-	1000.5	+18	NW	3	Zo	32	75	6	5	-	-	Tr	Tr	4000	3	*	42	32	28	-	-	0.0			
3	Birmingham ... 535	*	*	*	*	*	*	*	*	*	*	*	*	1002.8	+16	NW	3	m	34	85	4	5	2	-	2-3	4-6	2500	7	*	38	33	28	9	0.1	2.8				
	Upper Heyford ... 408	999.4	+6	WNW	5	34	88	8	-	-	-	0	0	-	1001.9	+16	WNW	3	b	33	88	8	-	-	5	0	Tr	-	4	*	40	32	32	Tr	3	*			
	Ross-on-Wye ... 223	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	+8	SWW	2	c	39	75	8	5	-	-	9+	9+	3000	1	*	43	37	31	-	Tr	5.0				
5	Hartland Point ... 209	1004.6	+4	N	5	c/pr	45	65	8	3	-	7-8	7-8	2500	1006.0	+6	NW	4	c	45	65	8	8	-	-	7-8	7-8	2500	1	5	46	41	39	1	4	3.2			
	Bristol ... 299	1002.5	+6	W	2	bc	37	85	8	5	3	-	2-3	2-3	3000	1004.4	+10	NW	3	c	38	92	7	5	-	-	9+	9+	3000	1	*	43	35	30	0.4	4	5.0		
	Portland Bill ... 32	1002.8	+6	N	5	c	44	85	8	2	-	-	7-8	7-8	4000	1004.7	+26	NW	4	c	43	85	8	2	4	-	4-6	7-8	4000	1	5	52	41	*	-	-	*		
	Plymouth ... 82	1005.1	+4	NW	4	c/pr	42	75	8	8	-	3	7-8	7-8	5000	1006.5	+10	NW	3	bc	42	75	7	5	-	-	4-6	4-6	4000	1	3	47	41	34	0.5	1	5.3		
	The Lizard ... 240	1006.4	+2	N/E	5	c/pr	42	85	8	2	-	7-8	9+	1500	1007.7	+8	NW	4	c/pr	42	85	8	8	6	-	7-8	7-8	1500	1	4	47	40	*	0.5	3	5.3			
	Scilly (St. Mary's) ... 163	1007.8	0	NW	5	c	46	85	8	8	7	-	4-6	7-8	1500	1008.5	+6	N/E	4	45	85	8	8	7	-	4-6	9+	1500	1	5	48	43	*	1	5.2				
	Guernsey ... 175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
6	Pembroke ... 142	1004.9	+10	NW	6	cq	44	85	8	8	6	-	7-8	9	2500	1006.0	+2	NW	5	bcq	44	85	8	2	-	-	4-6	4-6	4000	1	3	46	40	*	0.3	4.2			
	Holyhead (Valley) ... 26	1001.9	+12	NNW	6	c	43	65	8	8	6	-	2-3	7-8	1500	1003.7	+12	NNW	3	c	43	65	8	8	-	-	7-8	7-8	2500	1	5	44	41	38	0.4	Tr	*		
	Chester (Sealand) ... 16	1000.0	+10	NNW	4	bc	41	75	7	2	-	-	4-6	4-6	2000	1002.2	+6	NNW	3	Zo	41	65	6	2	-	-	2-3	4-6	2500	1	*	42	38	30	9	Tr	1.3		
	Manchester ... 235	999.0	+6	WNW	4	b	35	85	7	2	-	-	1	1	3000	1002.4	+14	WNW	2	b	32	85	6	4	-	-	1	1	4000	3	*	42	32	27	0.1	-	*		
10	Spurn Head ... 29	994.6	+18	NW	7	o	39	65	7	5	-	-	10	10	2500	998.5	+22	WNW	6	cq	40	65	7	5	-	-	9+	9+	2500	0	4	41	37	*	-	-	5.9		
	Catterick ... 175	997.1	+14	WNW	4	b	37	65	7	-	3	-	0	1	-	1000.4	+14	WNW	4	bc	37	65	6	5	1	-	Tr	2-3	3500	1	*	40	35	29	-	-	5.8		
	Tynemouth ... 108	994.8	+12	NW	5	c	36	65	7	8	-	-	9	9	2500	998.7	+18	WNW	5	c	36	75	7	5	-	-	9+	9+	1500	1	4	40	35	31	-	-	*		
11	St. Abbs Head ... 280	994.3	+30	NW	7	cq	39	75	8	8	4	-	4-6	7-8	1500	997.9	+20	W	5	bc	38	75	8	4	4	-	2-3	4-6	2500	0	4	38	35	*	Tr	-	*		
	Leuchars ... 36	996.0	+20	WNW	3	bc	39	65	9	5	-	-	4-6	4-6	2500	998.5	+14	W	3	bc	37	75	9	5	4	8	2-3	2-3	2500	3	*	37	36	36	0.1	-	1.8		
12	Renfrew (Abbots 1.) ... 19	999.2	+16	W	4	bc	38	65	8	5	3	-	2-3	4-6	3500	1000.9	+6	W	2	bc	37	65	8	5	-	-	4-6	4-6	3000	1	*	40	34	26	Tr	-	5.1		
	Eskdalemuir ... 794	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.7	+6	WSW	2	bc	32	65	8	5	-	2	Tr	4-6	2500	3	*	37	29	24	-	-	5.0			
	Point of Ayre ... 30	1000.6	+10	NW	7	c	43	75	8	9	4	-	2-3	7-8	2000	1002.0	+6	N	5	bc	44	65	8	8	4	-	4-6	4-6	2000	0	4	44	40	*	3	Tr	1.2		
13A	Tiree ... 22	1002.2	+8	N	3	c	43	65	8	8	-	-	7-8	7-8	2500	1002.0	0	NW	2	c	44	65	8	5	-	-	9	9	2500	0	1	44	42	*	0.3	-	1.2		
13B	Stornoway ... 80	1000.0	+8	NW	4	c	39	75	7	8	7	-	7-8	9+	2000	999.0	-6	SW	3	c	38	85	8	5	7	-	9	10	2000	1	2	38	36	*	1	0.4			
15	Dalwhinnie ... 1178	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.3	+6	N	1	c	33	85	8	8	-	-	7-8	7-8	2500	8	*	32	31	28	3	1	0.0			
	Aberdeen ... 79	*	*	*	*	*	*	*	*	*	*	*	*	*	997.1	+18	NW	3	pr	37	85	8	8	-	-	9	9	1700	1	3	38	34	32	1	1	1.6			
	Wick ... 119	994.2	+18	NW	6	c	39	75	7	8	-	-	10	10	3500	996.5	+14	NW	4	c	39	75	8	5	-	-	10	10	2500	1	*	41	35	34	1	0.4	*		
16	Sumburgh ... 30	989.7	+32	NNW	6	pr	40	85	7	8	-	-	9+	9+	1000	992.7	+10	NNW	5	c	39	75	8	8	-	-	9+	9+	1500	1	6	43	38	36	7	0.2	0.0		
17	Blackod Point ... 18	1007.0	-6	NNW	3	bc	45	85	8	2	-	-	4-6	4-6	2500	1005.8	-8	W	3	id.	48	97	7	6	-	-	10	10	1500	1	3	45	41	*	0.5	1	0.0		
18	Malin Head ... 84	1002.9	+6	NW	5	c	45	85	8	9	-	-	9	9	2500	1002.7	-2	NNW	3	c/pr	44	85	8	6	-	-	7-8	7-8	2500	1	5	45	46	37	2	0.5	0.0		
	Aldergrove ... 268	1003.2	+10	W	3	pr	39	85	7	8	6	-	4-6	10	1500	1004.0	+2	W	3	c	38	85	8	5	6	8	7-8	9+	2500	1	*	42	36	32	3	0.3	1.3		
19	Birr Castle ... 173	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.3	-6	NNW	1	c	40	92	8	5	1	-	7-8	9	2500	1	*	44	33	30	-	-	4.3			
20	Valentia Obay. ... 30	1009.7	-4	WNW	4	c/pr	49	75	8	2	7	3	1	10	2500	1008.7	-4	WNW	4	c/pr	50	85	8	8	-	-	9+	9+	2500	1	4	47	45	42	1	0.4	4.2		
	Roches Point ... 22	1008.6	+6	WNW	3	c	43	85	8	5	-	-	7-8	7-8	2500	1007.6	-6	NW	3	c	46	85	8	5	-	-	7-8	7-8	2500	1	4	46	*	*	0.1	0.1	*		
LONDON OBSERVATIONS.																																							
Day 7th-18th. Kew & Croydon.		Height above M.S.L. in feet.	Weather.			Temperature.			Rainfall.		Sunshine to Sunset hrs.	Humidity.		Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.	EXPLANATION OF FIGURES, LETTERS, etc.																								
9th-18th. Kensington.			Morning.																																				

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION
Tuesday 9th December 1941.
No. 29237

OBSERVATIONS at 13h. G.M.T. 8th December														OBSERVATIONS at 18h. G.M.T. 8th 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)					Low.	Med.	High (11)	Low 0-10 (12)			Total 0-10 (13)	Height of Base. (feet) (14)					Low.	Med.	High (24)	Low 0-10 (26)			Total 0-10 (27)	Height of Base (feet) (28)	7h.—13h. ... 8h... (37)	13h.—18h. ... 8h... (38)	18h. to 1h.—9h... (39)	1h.—7h. ... 9h... (40)		
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympe ... Manston ...	1006.0 1005.9 1006.6 1007.3 1006.7 1005.7 1004.2	+8 +10 +10 +6 +10 +6 -10	WNW WNW WNW WNW WNW WNW NW	1 3 3 3 3 3 4	2 2 2 2 2 3 2	41 40 42 44 43 37 41	85 75 75 75 75 85 65	6 5 5 2 5 4 -	5 3 - - - - -	3+ 4+ 3+ 7-8 3+ 0 0	2500 4000 4200 2500 4000 0 2-3	1007.4 1007.2 1007.8 1008.2 1008.3 1008.0 1006.7	+12 +10 +12 +12 +16 +16 +20	WNW SW WNW WS WNW WN WN	2 2 3 3 3 3 3	2 m bc bc 2 m 2	41 40 39 40 41 37 36	85 85 85 85 85 85 85	5 4 6 7 4 4 5	5 - 3 4 5 - 3	- - - - - - -	7-8 7-8 2-3 2-3 7-8 0 0	7-8 7-8 4-6 4-6 4-6 4-6 9	2500 3000 4000 5000 4000 - -	1 1 1 1 1 1 1	* * * * * \$ 3 *	b, c, x, c, z b, m, o, x, b, m b, c, c b, c, c b, m, o, c b, m, o, x, b, m b, c, b, c, z	c, z, c, m c, m, c, m c, c, b, c, m, w b, c c, b, c b, b, c, c, m b, c, z	c, b, e, c, m c, m, o, i, d c, m, o, i, r c, i, r, m, c c, m, o, i, r c, m, o, i, r c, m, o, i, r	c, i, d, c, m c, b, c, c, i, d c, w, e b, e, c, i, d i, d, i, r, b, o c, m, o, i, r b, e, c				
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1005.6 1003.5 1002.3 1004.3 1003.8	+16 +20 +18 +18 +4	WNW WNW WNW WN WN	3 4 4 3 3	bc 2 2 2 2	42 40 40 41 40	65 65 65 65 65	6 5 5 5 5	- - - 7 3	5 3 - 4 3	0 2-3 3+ 10 4-6 7-8	- 5700 1500 4000 -	1007.0 1005.9 1005.2 1005.2 1004.3	+12 +10 +18 +14 +6	W W W SWW SWW	2 4 2 4 3	m m 2 m m	39 37 39 38 38	85 75 65 85 92	4 4 5 4 4	- - - - -	3 - - - -	0 10 9+ 4-6 7-8 10	9 4700 1500 4300 2500	1 4 0 0 1	* 4 2 * *	b, m, o, b, c, m c, m, o, b, c, c c, z c, b, c, z b, c, z	b, m, o, i, c c, m, c, m c, z, b, c c, m b, c, z, c, m	c, m, p, r, c, m c, m c, z, b, c c, m, i, r, m c, m, i, r	c, m, p, r c, m, b, e, n b, b, o, m c, m, i, r, o c, m, i, d				
3	Birmingham Upper Heyford	1005.8 1005.1	+8 +4	W WSW	2 2	ir c	38 38	85 85	4 8	5 -	- -	10 9+	1500 3000	1005.8 1006.4	+6 +12	WSW WSW	3 2	m 2	40 39	75 85	4 6	5 5	- -	10 9	10 4500	2500 4500	4 1	* *	o, r b, x, b, c, c	c, m c, i, r, m	c b, e, c, m	c, i, r i, r, m, c, m			
4	Ross-on-Wye ...	1006.2	0	W	2	c	44	65	8	5	3	-	9+	3000	1006.6	+4	SW	3	c	43	75	6	5	7	-	7-8	7-8	3000	1	*	p, c, c	c, b, c, c	c, b, e, c	c	
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Scilly (St. Mary's) Guernsey ...	1008.2 1007.0 1007.4 1009.0 1009.5 1010.2	0 +4 +6 +2 +2 +2	NW WNW NW WN WN W	3 3 4 2 3 2	bc c c bc bc c	46 44 46 48 48 49	65 75 85 85 75 85	8 7 8 8 8 8	8 5 2 4 8 8	4 3 9 4 4 7	- 2-3 7-8 4-6 4-6 4-6	2500 3000 4000 4500 2500 1500	1007.9 1007.7 1008.4 1009.5 1010.0 1009.6	-2 +4 +10 +8 +4 +6	WSW W WNW WN W WNW	4 4 4 2 4 4	c bc c c c c	47 42 47 48 48 49	92 85 85 75 92 97	7 7 8 8 8 8	5 2 3 5 8 1	- - - - - -	9+ 2-3 7-8 9+ 7-8 4-6	2500 3500 2500 3000 1500 1200	1 1 1 0 1 1	3 * 4 2 3 1	c, b, c c, m, o, b, c, c c c, m, o, b, c b, c, c, z b, c, c, b, c p, c	b, c, d c c c c, b, c, z c	c, i, r, p, r c, b, c c c, m, o, w c, p, r, b, e c, b, e, c, p	c, p, r, c c, d, d, d c c c, p, r, c c, p				
6	Pembroke	1007.7	+2	WN	3	c	48	85	8	8	4	-	4-6	7-8	4000	1006.5	-12	W	5	50	97	7	8	-	9	9	1500	1	3	b, c, q, c	c, r, o	c, i, d	c, c, q, p, r		
7	Holyhead (Valley) Chester (Sealand)	1004.6 1004.5	-2 +4	WNW WN	4 3	c 2	48 45	75 75	9 6	2 5	5 7	2-3 -	7-8 9+	2000 2000	1004.0 1004.0	-2 0	WSW SW	5 1	0 2	48 45	92 85	7 6	5 5	- -	10 9+	10 3+	1500 2300	0 1	4 *	c, b, c c, p, r, m	c, b, c c, m	c, i, d c, m, o, d, d, c	c, i, d, c c, m, o, d, d, c		
8	Manchester	1004.7	+2	-	0	pr	39	75	4	4	3	-	4-6	9+	3000	1004.3	+2	SW	3	2	42	92	5	5	-	10	10	1300	1	*	c, m	c, p, r, m	i, d, o, d, o	c, d, o, d, o	
10	Spurn Head Catterick Tynemouth	1001.9 1002.7 1001.9	+10 -2 +10	WNW W W	5 2 4	bc c c	40 39 38	65 65 35	7 8 6	1 5 5	3 - 4	- 0 -	4-6 0 4-6	2500 - 3000	1002.2 1001.1 1000.7	+4 -10 -12	SWW WS W	3 3 3	2 c 2	39 43 43	75 85 85	6 7 5	5 7 5	- - -	10 7-8 9+	10 4000 2400	0 0 1	4 * 4	b, c b, c, v, c b, c, q, c	c, m, o c c, m, o	c, m, o c, m, o, b, e	c b, e, c b, e, c			
11	St. Abbs Head Leuchars	999.7 999.0	0 -14	WNW WSW	5 4	c c	39 38	65 75	8 8	5 7	5 -	7-8 0	2500 10	997.5 995.6	-6 -20	W WSW	3 4	0 2	41 41	85 97	7 6	5 3	- 7	- 2-3	10 7-8	10 3500	0 1	3 *	c c, c, m	c, o c, m, i, r, m	b, e, c c, m, o, c	c c, b, e			
12	Reafrow (Abbots L) Eakdalemuir Point of Ayre	1001.1 1000.9 1003.0	-10 -2 -4	WS SWW WNW	2 3 4	2 3 c	42 37 40	75 75 85	6 8 8	5 5 2	7 3 3	9+ 2-3 1	5000 1500 2000	997.8 999.9 1001.6	-22 -4 -10	SWW SSW WNW	4 3 5	2 2 c	47 39 48	85 97 92	6 5 7	5 - 6	2 - 2	9+ 10 9	1800 220 1500	1 1 1	* * 5	b, c, c, m, o b, x, b, c, c b, c, p, r, c	c, m, i, r, m c, i, r c, r, o, c	c, i, r, c r c	c, c, i, r c, i, d, o c, i, d, o				
13a	Tiree	1000.1	-16	WN	3	c, r	49	85	8	5	-	7-8	7-8	2100	998.0	-4	WNW	4	c, r	49	85	7	5	-	9+	9+	1500	1	4	c, i, r	c, i, r	c, i, d	c, i, d		
13b	Stornoway	995.9	-18	SSW	5	c, p, r	45	97	7	3	7	-	7-8	9+	2000	992.9	-24	WSW	3	c, o	47	97	7	5	7	-	7-8	10	1000	1	2	c, p, r	c, i, d	c, i, d	c, i, d
15	Dalwhinnie	998.8	-10	SW	3	c	38	85	8	8	-	9+	9+	2500	996.3	-10	-	0	39	92	7	5	-	10	10	2500	6	*	c	c, o	c, z	c, i, d			
	Aberdeen	997.2	-14	WS	2	c	40	75	6	-	7	-	0	9+	-	994.3	-14	SW	1	c	40	75	6	-	7	-	0	9+	-	1	2	c, z	c, z	c, z	c, v, b, c
	Wick	994.6	-18	SW	3	c, d	35	85	8	5	2	7	1	10	4000	991.3	-14	SW	3	i, d	44	92	8	5	2	-	9	10	2500	1	*	i, r, a, c, i, d, c	c, i, r, d	d, o, d, c	c
16	Sumburgh	991.6	-14	W	4	ir	43	85	7	5	2	-	4-6	10	2000	986.7	-28	WSW	5	c, r	45	97	5	6	-	10	10	800	1	5	o, r	c, r, r, m	r, r, r, o, m	i, r, o, m	
17	Blackad Point	1004.8	-8	WN	3	bc/pr	50	92	7	2	6	9	4-6	4-6	1500	1004.2	0	WSW	4	o, d	50	85	7	5	-	10	10	1500	1	3	b, c, p, r	d	c	d, r	
18	Malin Head Aldergrove	1000.6 1003.6	-16 -10	W ESE	3 2	c c	43 42	85 92	8 7	2 5	9 -	- 9	4-6 10	2500 500	1000.1 1001.9	0 -4	W SW	4 3	i, d c, a	49 43	92 97	6 6	9 5	- -	9+ 7-8	9+ 800	0 1	5 *	c c	i, d, o, m, c	c, i, d, c, m	c, i, d, c			
19	Birr Castle	1006.0	-6	SSW	2	bc/pr	48	92	8	5	1	-	7-8	10	2500	1005.5	+4	SW	2	i, d	47	97	7	5	-	10	10	2500	1	*	b, c	d	c	b, c	
20	Valentia Obey Roches Point	1008.8 1007.5	-6 -12	W WNW	3 3	bc/pr bc	51 51	85 85	8 8	2 3	3 3	- 2-3	4-6 4-6	1500 1500	1008.5 1007.4	0 +2	W W	4 2	i, d c	50 50	85 85	8 8	5 5	- -	10 9+	10 1500	1 1	3 1	b, c b, c, p, r	d pr	c, i, d, c b, e, c	b, c b, c			

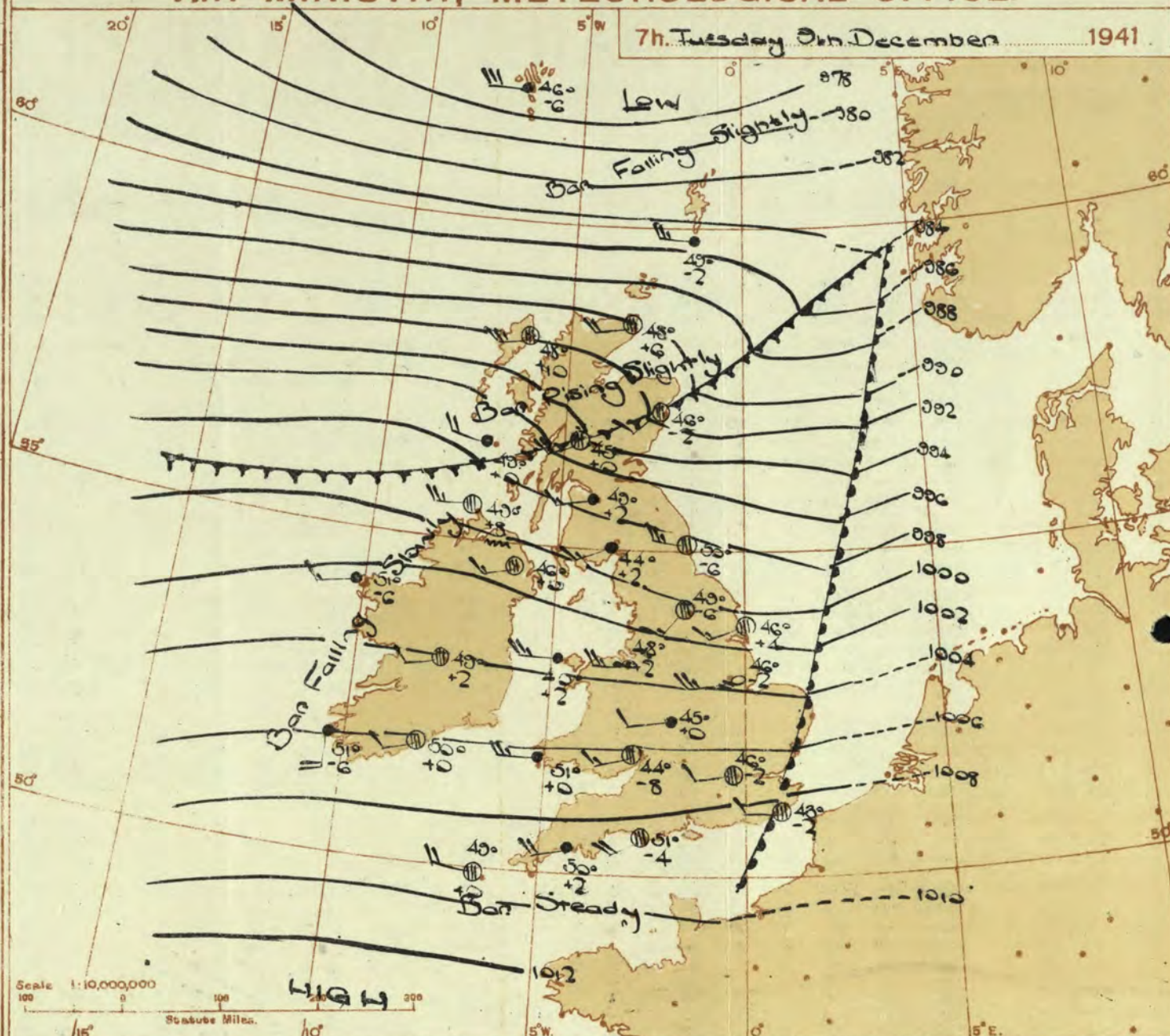
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T.	18h. G.M.T.	01h. G.M.T.	07h. G.M.T.
III. C. M. W. V. H. N. D. D. F. W. N.	III. C. M. W. V. H. N. D. D. F. W. N.	III. C. M. W. V. H. N. D. D. F. W. N.	III. C. M. W. V. H. N. D. D. F. W. N.
1062 61744 23468	52 52536 24468	52 02635 57658	52 62538 57658
1152 62635 26588	52 81834 24587	52 62734 30587	-- 67309 22569
203		5- 03738 20688	
2057 02861 26285	57 02864 24325	52 61855 55408	54 02864 56856
2157 02985 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
2407 02980 22318	50 02753 20223	07 02980 22227	53 02981 22367
2457 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
3203 05590 28314	51 08455 22327	5- 05648 24368	5- 05658 23428
2953 01744 26414	50 01746 24316	50 05544 26214	5- 05644 24125
2992 02890 24215	5- 05566 20126	6- 02847 26267	57 02854 22327
310- 71436 20416			-- 46209 20349
6154 05678 22126	53 08455 26226	53 05664 22327	5- 21658 24258
335- 02957 24317	82 02854 26258	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
33052 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 26214		5- 05648 22449
3904 05680 26315	5- 08478 26418	03 08490 22364	5- 62558 22358
357 22666 24227	53 05663 23327	6- 05634 22327	52 21636 20358
4388- 01773 26313			8- 10757 22587
430 57 02852 24317	03 05590 24123	57 51646 26168	57 05653 24327
10080 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, Sh = 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 (E, SE, S, SW, W, NW, N, NE).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 3rd December 1941



DISTRICTS. FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 3rd 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 ...	As 1-3
10 N.E. England	
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
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.

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

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.
 In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 3th December 1941.

No. 29237

OBSERVATIONS at 1 hr. G.M.T. 9th December														OBSERVATIONS at 7 hr. G.M.T. 9th 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.		SON-SHINE Hrs. (36)	
					Direc. (3)	Force. (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Total (12)	Direc. (17)			Force. (18)	Form. (23)					Amount. (24)	Height of Base. (feet) (25)	Total (26)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)			Min. on Grass °F. (33)	Day 7h-18h mm. (34)	Night 18h-7h mm. (35)				
1	London (Kew) ...	18	1007.1	-6	WSW	3	c	42	85	7	5	10	10	1800	1006.4	-4	WSW	2	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	10	10	1800	1007.1	-2	WSW	2	c/d	46	92	6	5	3	9	10	1600	1	*	41	40	32	0.3	Tr	3.8		
	S. Farnborough ...	226	1007.2	-8	SWW	3	c	44	85	7	5	10	10	1200	1007.1	-2	WSW	3	c	46	85	7	5	3	9	10	1200	1	*	42	38	32	Tr	Tr	3.2		
	Boscombe Down ...	417	1007.9	-6	SWW	3	c	44	92	8	5	7	7	3200	1008.0	0	SWW	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	9	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	*	
	Lynnhc ...	346	1008.4	-2	W	2	Tr	39	92	6	5	2	2-3	4-6	1008.1	-2	W	2	c	43	97	7	5	7	9	10	2200	1	*	37	35	34	1	Tr	2.5		
	Manston ...	154	1007.0	-2	SWW	3	Tr	39	85	6	5	2	2-3	4-6	1007.0	+2	WSW	3	Tr	43	92	6	5	7	9	10	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	Tr	45	92	5	5	-	4-6	10	1700	1	*	42	40	36	-	0.1	5.1		
	Felixstowe ...	16	1005.8	-2	WSW	4	m	41	85	4	5	7	2-3	10	1005.5	-4	WSW	3	Tr	44	92	5	5	-	10	10	2700	1	3	43	36	35	-	-	1.4		
	Gorleston ...	5	1005.2	0	SWW	3	Tr	42	75	6	5	3	4-6	4-6	1005.1	+2	SW	2	Tr	43	85	6	5	-	9	10	2500	0	2	41	36	31	-	-	*		
	Mildenhall ...	19	1004.8	-2	SWW	4	Tr	41	85	6	5	7	2-3	9	1004.6	+2	SWW	4	Tr	46	92	6	5	-	10	10	2300	1	*	41	38	35	Tr	Tr	1.9		
	Cranwell ...	240	1003.1	-8	WSW	4	Tr	41	92	5	3	1	0	7-8	1002.7	-2	W'S	5	Tr	46	92	6	5	-	10	10	2000	1	*	41	35	36	-	Tr	4.5		
3	Birmingham ...	535	1006.1	-4	SW	4	Tr	42	97	5	5	-	10	200	1005.0	+2	WSW	2	Tr	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	Tr	42	97	5	5	-	10	200	1005.3	+4	SW	3	Tr	45	97	5	5	-	10	10	2800	1	*	40	38	34	Tr	Tr	*		
4	Ross-on-Wye ...	223	1006.1	-4	SW	4	Tr	42	97	5	5	-	10	200	1005.3	+4	SW	3	Tr	45	97	5	5	-	10	10	2800	1	*	40	38	34	Tr	Tr	*		
															1000.4	-8	WSW	3	Tr	44	75	8	5	-	7	7-8	10	3000	1	*	45	43	38	Tr	-	0.9	
5	Hartland Point ...	299	1007.3	-2	W	4	bc/pr	49	92	8	2	1	4-6	7-8	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	2-3	4-6	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	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	1009.2	+2	W'S	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	1009.4	+2	WN	5	bc/pr	49	97	8	8	6	7-8	9	1500	1	4	50	48	-	Tr	1	3.4		
	Scilly (St. Mary's) ...	163	1009.5	0	WNW	4	bc/pr	48	97	8	8	6	2-3	7-8	1009.1	0	WNW	4	c	49	92	8	8	3	4-6	9	1200	1	4	50	44	-	0.1	0.5	0.0		
	Guernsey ...	175	1009.5	0	WNW	4	bc/pr	48	97	8	8	6	2-3	7-8	1009.1	0	WNW	4	c	49	92	8	8	3	4-6	9	1200	1	4	50	44	-	0.1	0.5	0.0		
6	Pembroke ...	142	1006.4	-4	W	5	c	50	92	7	3	7	7-8	10	1006.1	0	W	5	pr	51	92	7	8	-	9	9	1500	1	3	50	42	-	Tr	0.5	1.8		
7	Holyhead (Valley) ...	26	1003.5	-2	W'S	5	c/d	50	85	7	5	-	10	10	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	1003.5	+2	W	2	Tr	48	85	6	5	-	10	10	2600	1	*	45	45	41	1	Tr	0.5		
8	Manchester ...	235	1003.4	-6	W'S	4	d.d.	46	92	6	5	-	4-6	10	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	-	9	9	1001.6	+4	SWW	3	c	46	92	6	7	-	9	9	2500	0	3	41	39	-	-	-	0.9		
	Catterick ...	175	999.8	-6	W'S	3	bc	48	75	7	5	-	2-3	2-3	999.2	-6	SW'S	3	c	49	75	7	3	2	7-8	9	2000	1	*	43	42	40	-	-	1.9		
	Tynemouth ...	108	997.9	-8	W	4	bc	48	75	7	2	3	2-3	4-6	998.2	-6	WNW	5	c	50	75	6	8	-	9	9	2500	1	3	43	42	40	-	-	*		
11	St. Abbs Head ...	280	995.3	-6	W	5	c	49	75	7	4	1	7-8	9	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	2	7-8	10	994.5	-4	W	4	c	46	92	8	5	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	1	7-8	9	997.8	+2	W	3	Tr	49	85	7	5	7	7-8	9	2900	1	*	47	47	44	0.5	Tr	0.0		
	Eskdalemuir ...	794	998.0	-2	WN	4	c	49	85	7	5	1	7-8	9	998.5	+2	SW	3	Tr	49	85	7	5	-	9	9	2900	1	*	47	47	44	0.5	Tr	0.0		
	Point of Ayre ...	30	1001.0	0	WNW	5	c	49	85	8	5	2	7-8	10	1001.0	-2	W	4	Tr	49	85	8	7	-	7-8	10	1800	0	4	48	48	-	-	-	0.2		
13A	Tiree ...	22	998.4	+4	W	3	c	49	85	8	5	-	9	9	998.2	0	WNW	4	id.	49	92	7	5	-	9	9	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	992.8	+10	WSW	5	c/d	48	92	8	5	7	7-8	9	1500	1	3	47	47	-	0.3	0.5	0.0		
15	Dalwhinnie ...	1176	995.6	0	SW	4	c	45	75	8	8	-	10	10	995.6	0	SW	4	c	45	75	8	8	-	10	10	2500	1	*	40	38	33	-	Tr	1.0		
	Aberdeen ...	79	990.2	-2	WSW	2	c	47	85	8	5	7	9	10	990.6	-2	SWW	2	c	46	92	6	5	3	4-6	7-8	3100	1	2	40	40	36	Tr	2	0.0		
	Wick ...	119	990.2	-2	WSW	2	c	47	85	8	5	7	9	10	990.6	-2	SWW	2	c	46	92	6	5	3	4-6	7-8	3100	1	2	40	40	36	Tr	2	0.0		
16	Sumburgh ...	30	986.2	-6	W	5	c/r	48	92	7	5	2	4-6	10	984.5	-2	WN	5	Tr	49	92	6	6	2	9	10	700	1	*	45	44	44	2	1	*		
17	Blackod Point ...	18	1003.0	-4	W	4	c	50	92	7</																											

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON

~~SECRET~~
BRITISH SECTION

Wednesday 10th December 1941

No 29238

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

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

PAST 24 HOURS.

[illegible]

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
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.
p, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_g/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain.
rr, continuous rain.
<, less than (for cloud height). /gale.
⊕ Solar halo. ⊙ lunar halo. ∇ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain: —, has decreased; +, has increased.

FORMATION OF FIGURES, LEFT
COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

‡ Sea disturbance reported from Dungeness

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMN 29 — STATE OF GROUND

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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 Ca increasing: still below 45° altitude: often in polar bands.
- 6 Ci or Ca increasing and reaching above 45° altitude: often in polar bands.
- 7 Veil of Ca covering whole sky.
- 8 Ca not increasing and not covering whole sky.
- 9 Ce predominating, and a little cirrus.

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

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

7h. Wednesday 10th December 1941

Scale 1:10,000,000

Scale Miles.

DISTRICTS.

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		= Occluded Front (or Occlusion)
	= Warm Front above the ground		= Warm Occlusion
	= Cold Front on the surface		= Cold Occlusion
	= Cold Front above the ground		= 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.

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

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

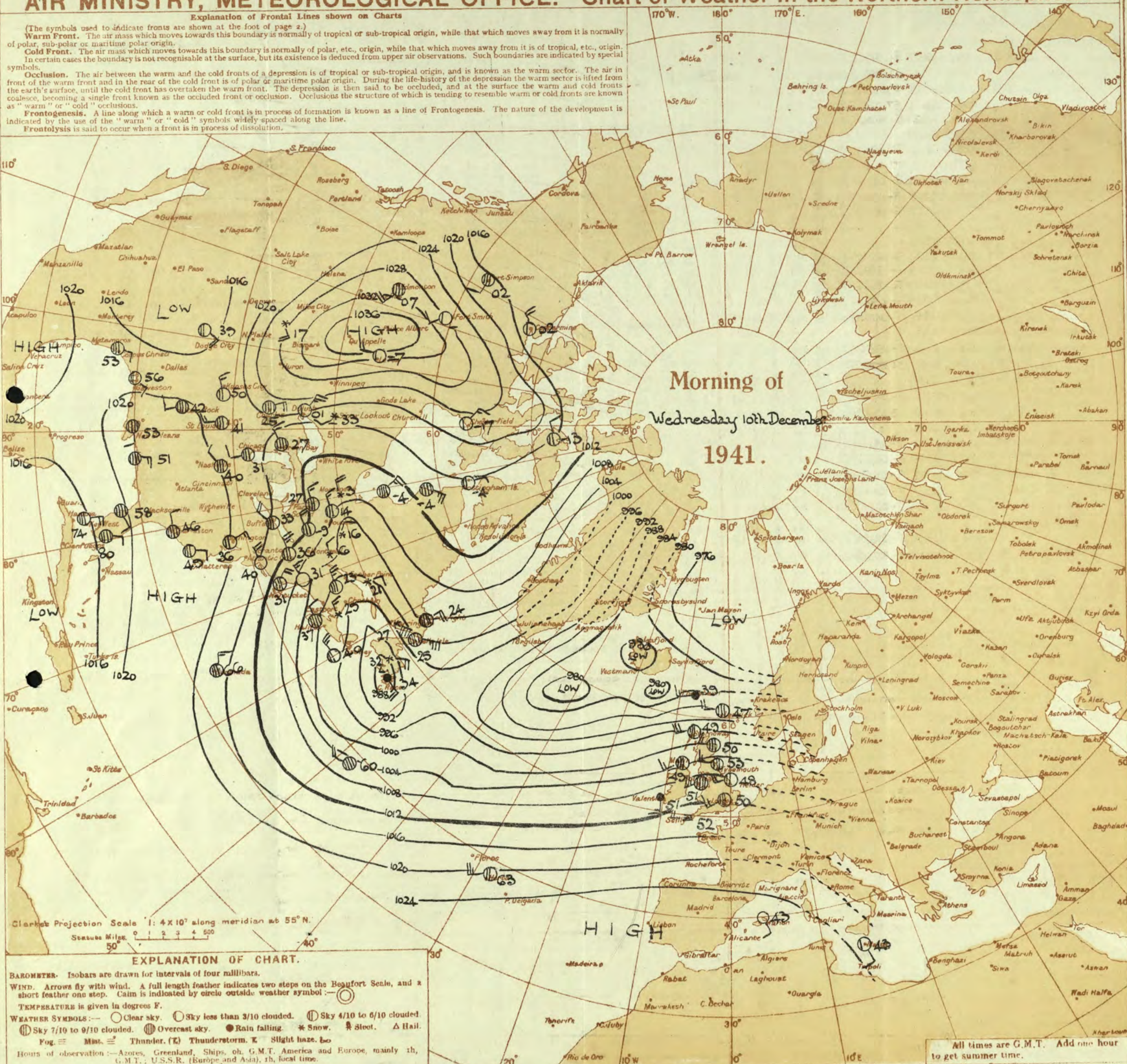
Forecasts issued at 10.30. G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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.

BRITISH SECTION
Wednesday 10th December 1941
No. 29 238

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. M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.			SUNSHINE Hrs. (36)		
					Direc.	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)				
																																				Form.		Amount.	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	49	*	*	*	*	*	*	1012.9	+2	sw	3	id.	51	97	6	5	-	-	10	10	1500	1	*	51	49	45	-	Tr	0.0				
	Croydon	217	1012.3	+2	sw	3	c	50	92	7	5	-	-	1012.9	+2	sw	2	c/d	53	97	6	5	-	-	10	10	900	1	*	50	50	45	-	0.1	0.0				
	S. Farnborough	226	1012.8	+2	sw	3	z.	51	97	6	5	-	-	1012.8	+2	sw	4	c/d	53	92	6	5	-	-	10	10	800	1	*	50	49	47	Tr	0.1	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	0.1	0.0					
	Thorney Island	10	1013.6	+4	sw	4	c/d	52	97	6	5	-	-	1014.0	+2	sw	3	d.c.	53	97	5	5	-	-	10	10	200	1	*	52	49	38	Tr	0.2	0.0				
	Lymington	346	1013.2	+6	w	3	c	49	92	7	5	-	-	1014.1	+2	sw	3	d.f	52	97	1	-	-	-	10	10	450	1	4	50	48	46	-	Tr	0.0				
	Manston	154	1012.1	+8	sw	3	z.	49	92	5	5	-	-	1012.9	+4	sw	4	z.	52	92	6	5	-	-	10	10	800	1	*	50	48	44	Tr	0.2	0.0				
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	0.4	0.0				
	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	0.0	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	c	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	-	0.0				
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	1009.9	0	sw	3	c	51	92	7	5	-	-	9	9	800	1	*	50	48	46	-	Tr	0.9				
	Upper Heyford	408	1010.8	+6	sw	4	c/d	49	97	5	5	-	-	1011.1	-2	sw	3	c/d	51	97	5	5	-	-	10	10	900	1	*	49	46	42	-	Tr	0.0				
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	1010.3	0	sw	4	bc	53	85	8	5	-	-	2-3	2-3	1700	1	*	52	50	45	-	Tr	0.1				
5	Hartland Point	299	1011.0	+2	sw	4	d.f	52	97	1	-	-	-	1011.7	+2	sw	4	d.f	51	97	2	-	-	-	10	10	450	1	5	51	49	48	0.4	4	0.1				
	Bristol	209	1011.9	-9	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	0.0		
	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	2	0.0				
	The Lizard	240	1013.7	+2	sw	5	d.f	52	97	2	5	-	-	1014.4	+6	sw	4	d.f	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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.0			
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	c	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	51	85	7	5	-	-	1008.0	-2	w	3	z.	54	85	6	5	-	-	4-6	4-6	1700	1	*	53	51	40	-	-	1.3				
8	Manchester	235	1008.1	+8	sw	2	c/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	-	1007.6	+2	sw	4	c	49	92	6	7	-	-	9	9	2500	0	3	49	45	-	-	0.0		
	Catterick	175	1005.8	0	sw	1	bc	50	92	7	5	-	-	2-3	2-3	2000	1005.3	-4	w	2	b	51	85	7	5	-	1	1	1800	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	1000.1	+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	82	8	5	3	-	1	4-6	4000	1000.3	-2	sw	2	c	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	c	49	85	7	5	-	9	9	2000	1	*	51	49	46	Tr	-	0.3		
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	-4	sw	4	c	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	c	50	92	7	6	2	-	9	10	1500	1	4	52	48	-	Tr	0.1	0.2	
13A	Tiree	22	1001.8	0	w	4	c/d	49	92	7	5	-	-	9	9	1500	1000.1	-10	w	4	c	49	92	7	5	-	9	9	1500	1	4	50	48	-	Tr	1	0.0		
13B	Stornoway	80	996.6	-10	sw	6	c/pr	49	92	7	5	7	-	4-6	9	2000	994.5	-12	sw	7	pr	50	92	7	5	7	-	7-8	9	2000	1	4	49	47	-	0.2	0.0		
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	999.5	-8	sw	4	bc	45	85	8	5	-	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	s	3	c	48	85	8	5	7	-	7-8	9	3500	1	*	50	47	44	Tr	0.3	0.0	
16	Sumburgh	30	991.9	+6	w	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	3	0.0		
17	Blackod Point	18	1006.0	0	w	3	c/f	49	97	6	5	-	-	10	10	800	1002.7	-20	sw	5	c	50	97	7	2	5	-	4-6	9	1500	1	4	52	49	-	0.4	0.4		
18	Malin Head	84	1003.6	+2	sw	3	c	49	92	8	8	-	-	7-8	7-8	2500	1001.0	-18	s	4	bc	48	92	8	2	-	2-3	2-3	4000	1	4	51	50	46	0.6	0.2	0.0		
	Aldergrove	268	1005.9	+2	sw	1	c	49	92	7	5	-	-	10	10	1300	1005.2	-6	sw	4	id.	46	97	7	5	-	9	9	800	1	*	50	46	45	0.1	0.1	0.0		
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.8	-10	sw	1	bc	48	92	8	5	-	2-3	2-3	4000	1	4	53	47	45	-	Tr	0.0		
20	Valentia Obay.	30	1009.9	-2	s	3	id.	51	97	7	5	-	-	9	9	450	1007.9	-10	w	4	dr	52	97	6	5	-	10	10	450	1	4	54	50	47	1	0.5	0.0		
	Roches Point	22	1009.9	+6	sw	3	o	52	97	7	5	-	-	10	10	800	1009.4	0	sw	3	id.	51	97	6	5	-	10	10	450	0	*	54	50	-	0.3	0.2	0.0		
LONDON OBSERVATIONS			Height above M.S.L. in feet.	Weather			Temperature.			Rainfall.		Sunshine. To sunset. hrs.	Humidity.		Atmospheric Pollution.				EXPLANATION OF FIGURES, LETTERS, etc.																				
Day 7h-18h. Kew & Croydon.				Morning.	Afternoon.	Night.	Day Max.	Night Min.	Min. on Grass °F.	Day.	Night.		15h. G.M.T. %	9h. G.M.T. %	Visibility 5h.	Milligrams of Solid Impurity per cubic metre.																							
9h-18h. Kensington.																24 hrs. ended 9h.									Yesterday.				To-day.				24 hrs. ended 7h. G.M.T. 10th.						
9h-21h. other stations except for rainfall which is 9h-18h																																							
Kew	18	c/d.m.	c.m.	c.m.	51	49	49	Tr	Tr	0.0	.	.	6	SOUTH KENSINGTON.				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																					

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

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

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

AIR
MINISTRY.THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET
Thurs. 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 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. (3)	Force. 0-12 (4)					Low. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)			Height of Base (feet) (14)	Low. (23)					Med. (24)	High (25)	Low 0-10 (26)	Total 0-10 (27)	Height of Base (feet) (28)			7h.—13h. 10h.... (37)	13h.—18h. 10h.... (38)	18h. 10h. to 1h.—11h. (39)	1h.—7h. 11h.... (40)			
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	*	cld	cld	cld	cld	cld		
	Croydon ...	1013.6	-2	SW	4	o	55	85	7	5	-	10	10	900	1013.1	-2	SW	4	id	54	92	6	5	-	10	10	1600	1	*	idomoc	cld	cld	cld	cld		
	S. Farnborough	1013.8	0	SW	5	id	54	92	7	5	2	-	7.8	10	800	1012.9	-4	SW	3	id	53	92	6	6	-	10	10	600	1	*	cidom	c	d	cld	cld	
	Boscombe Down	1014.3	0	SW	4	o	53	92	8	5	-	10	10	800	1013.2	-2	SSW	3	id	53	97	6	6	-	10	10	400	1	*	cid	cld	cld	cld	cld		
	Thorney Island	1015.1	+4	SW	4	id	55	92	6	6	2	-	7.8	10	450	1013.3	-6	SW	4	id	54	97	6	5	-	10	10	500	1	*	cid	cld	cld	cld	cld	
	Lymington	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	Fnd	d.m.	d.m.	d.m.	d.m.	
	Manston	1012.6	0	WS	5	o	54	92	7	5	-	10	10	800	1013.6	0	SW	5	id	54	92	6	5	-	10	10	800	1	*	id	id	id	id	id		
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	m.c	cld	cld	cld		
	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	com	com	cld	cld	cld		
	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	c	cld	cld	cld		
	Mildenhall	1010.6	-2	SW	5	z	55	85	6	5	-	7.8	9	1000	1009.9	-4	SW	5	c	55	85	7	5	-	10	10	1400	0	*	c	c	cld	cld	cld		
	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	*	com	id	com	cld	cld		
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	c	cld	cld	cld		
	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	*	com	id	c	cld	cld		
4	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	*	bcc	cld	cld	cld	cld	
5	Hartland Point	1011.6	-8	WSW	4	o	52	97	5	5	-	10	10	300	1008.3	-16	WSW	6	id	53	97	6	5	-	10	10	450	1	5	d	d	cld	cld	cld		
	Bristol ...	1012.7	-2	WSW	4	o	55	85	8	5	-	10	10	1400	1010.3	-10	WSW	5	c	55	85	7	6	-	9	9	1400	1	*	c	c	cld	cld	cld		
	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	od	od	cld	cld	cld		
	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	300	1	4	od	od	cld	cld	cld		
	The Lizard	1014.3	-4	WSW	5	m	53	97	4	5	-	10	10	600	1012.4	-16	SW	6	df	53	97	6	5	-	10	10	1000	1	5	od	od	cld	cld	cld		
	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	od	od	cld	cld	cld		
	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	cld	cld	cld		
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	cld	cld	cld		
7	Holyhead (Valley)	1006.5	-8	SSW	6	id	51	97	4	5	-	10	10	1500	1002.9	-22	SW	6	id	52	97	6	5	-	10	10	200	1	*	cd	id	cld	cld	cld		
	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	2500	1	*	bc	bc	cld	cld	cld
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	bc	cld	cld	cld		
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	-	-	0	0	-	0	3	com	com	cld	cld	cld		
	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	*	bc	bc	cld	cld	cld		
	Tynemouth	1003.5	-20	WSW	4	bc	54	75	6	-	4	-	0	2.3	-	1001.5	-12	SW	3	bc	52	75	6	2	3	-	2.3	4.6	2500	1	3	bc	bc	cld	cld	cld
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	bc	cld	cld	cld
	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	*	com	com	cld	cld	cld		
12	RAF (Abbots L.)	1001.5	-14	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	*	com	com	cld	cld	cld	
	RAF (Abbots L.)	1001.6	-14	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	*	com	com	cld	cld	cld	
	RAF (Abbots L.)	1001.6	-14	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	*	com	com	cld	cld	cld	
	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	bc	cld	cld	cld
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	cld	corr	bcpr	bcpr	bcpr	
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	cpr	d	cld	cld	cld	
15	Dalwhinnie	997.9	-8	SW	4	bc	47	85	8	8	-	4.6	4.6	2500	993.9	-20	SW	4	id	45	92	7	5	2	-	4.6	10	1500	1	*	bc	bc	cld	cld	cld	
	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	bc	cld	cld	cld	
	Wick	992.7	-10	SW	3	c	54	75	3	5	7	4	1	7.8	2000	983.8	-22	SW	4	c	48	85	8	5	7	-	4.6	7.8	2500	1	*	c	bc	bc	cld	cld
16	Sumburgh	989.4	-2	WSW	7	r.r.	50	92	6	6	2	-	9	10	800	987.4	-12	WSW	7	c	50	85	7	5	-	10	10	1500	1	6	rr	rr	cld	cld	cld	
17	Blackod Point	999.1	-26	SW	6	DR	52	92	6</																											

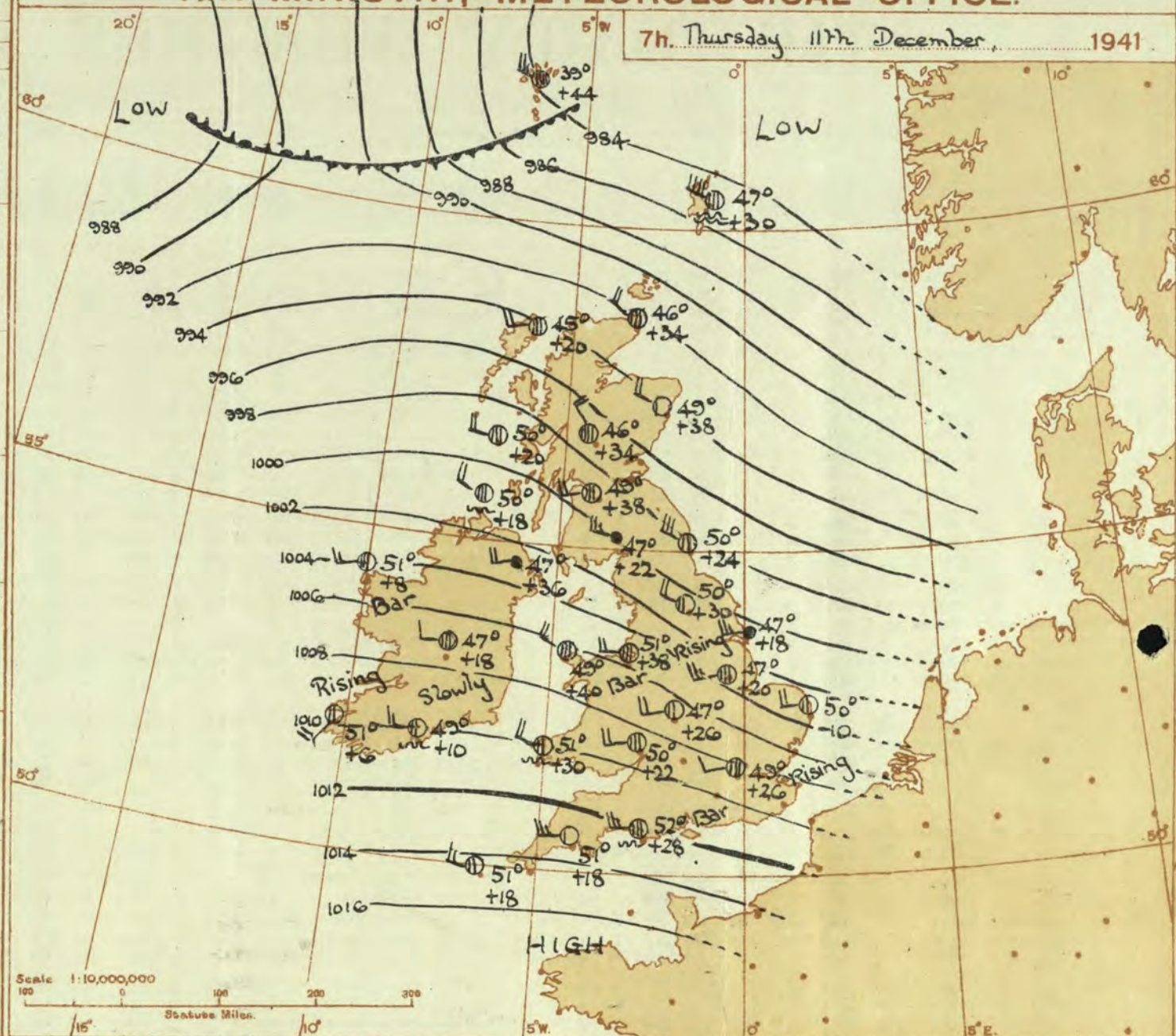
Abridged observations of additional stations in the
AVIATION WEATHER CODE

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	C _M	wwVhN _h	DDFWN	
109	57	02844	21725	5-	02748	20428	53	02743	22625	8-	02756	26686	
115							5-	67103	20669	57	02844	26567	
203							+-	02835	20725	5-	03838	20768	
206	54	01964	20414	5-	02856	55626	52	02855	53665	53	02855	57626	
210	57	01931	52613	57	02863	51626	57	02963	9315	53	02965	21467	
220	52	58636	23528	52	59226	23658				53	01722	26214	
230	50	81838	20458				87	02846	19367	87	81846	23387	
245	50	01853	23413	5-	02858	20528	52	61644	24266	54	00961	22362	
260	54	02855	22416	5-	51645	52528	5-	22646	53468	5-	05663	53413	
275	5-	02847	19327	5-	02838	18458	8-	82638	23488	8-	61848	24388	
279	5-	02857	19457	5-	05638	18658	5-	02747	54667	8-	81747	24467	
285	26	05635	26556	5-	52638	24568				2-	81636	26686	
288	50	02854	21425	5-	05647	51427	52	52645	53457	5-	01763	21263	
575	5-	21747	19357	5-	64748	18468	9-	25745	57585				
361	56	01723	22454	5-	01734	18314	5-	22664	54664	50	01744	57564	
321	86	01754	21525	5-	02756	20426	5-	62658	52468	5-	05658	58468	
290	50	05545	24315				50	05543	24413	50	25744	24384	
292	53	05645	21327	5-	05554	17214	53	02754	20465	50	01853	25463	
310				--	51428	20528				--	02638	20428	
614	53	05636	22326	5-	05648	22428	5-	64547	53657	50	61543	57458	
333	5-	54618	18558	5-	54638	53658	5-	22754	57664	54	01864	23514	
334	--	51847	26228	--	53547	26288				--	02546	24217	
340	5-	02846	22416	57	02755	22425	50	21753	23553	5-	02866	24316	
136	5-	05638	20428	5-	02748	21528	5-	02767	21657				
336	52	02753	20327	52	02754	20428				62	63653	28667	
350	5-	51838	53428	5-	02745	52425	5-	61648	53768	06	05690	54483	
368	52	51637	22458	5-	21637	20558	5-	22643	55763	80	05653	57513	
379	5-	52627	22457	5-	51628	20558	5-	63638	53658	53	01853	20484	
390	5-	51637	20558	5-	45356	20456	5-	58548	53668	5-	02756	26566	
382	5-	02837	55427	6-	02748	53428	5-	61638	52528	55	02854	24526	
438	02	57109	32555										
430	5-	51528	20458	5-	52428	57458	5-	53528	53768	50	00851	24561	
409	5-	21728	18558	5-	21628	19558	52	21647	20758	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_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. Thursday 11th December 1941



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. Rather 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	As 5-8.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	Strong squally N.W. winds, moderating, backing S.W. to S. increasing later; cloudy; some showers; general rain by end of period; Average temperature.
14 Mid Scotland	
15 N.E. Scotland	
16 Orkneys and Shetlands	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.
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

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.

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

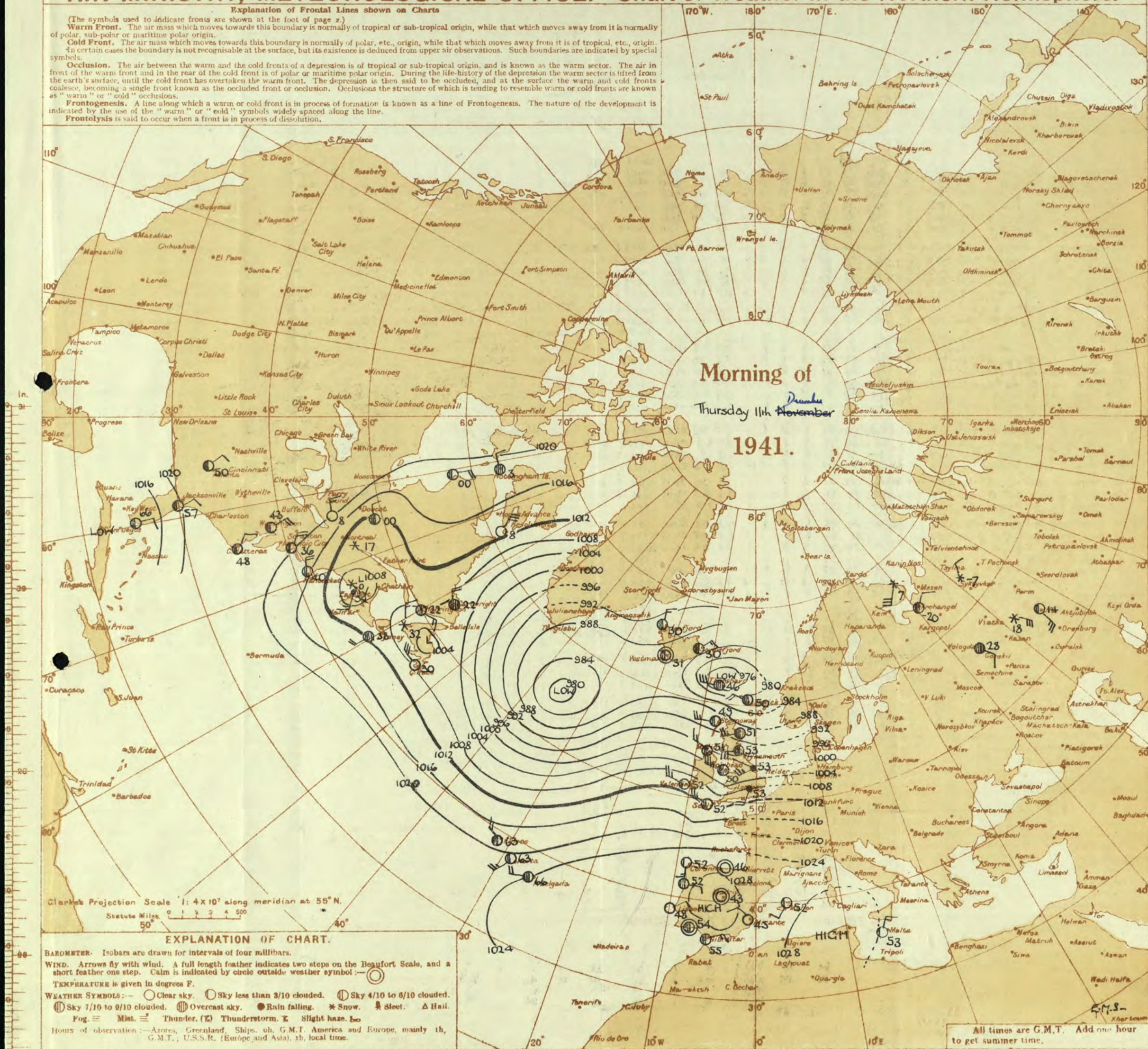
N. E. JOHNSON. D.Sc., A.R.C.S. Director.

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 11th December 1941.

No. 29239

OBSERVATIONS at 1 hr. G.M.T. 11th December														OBSERVATIONS at 7 hr. G.M.T. 11th December														PAST 24 HOURS.										
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			State of Ground.	Sea. 0-9	TEMPERATURE.			RAINFALL.		SUNSHINE 10th Hrs.						
					Dir.	Force.					Form.	Amount.	Height of Base (feet).			Dir.	Force.					Form.	Amount.	Height of Base (feet).			Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.							
																																	0-12	0-12	0-12			
1	London (Kew)	18						54					1009.2	+26	WSW	4	20	51	75	6	5	-	-	7-8	2500	1	*	54	50	46	Tr	1	0.0					
	Croydon	217	1008.5	-22	SSW	4	r.c.	53	97	6	5	-	-	1008.9	+26	WSW	2	c	49	85	6	5	-	-	9	1500	1	*	55	48	42	Tr	3	0.1				
	S. Farnborough	226	1008.1	-26	SW	5	d.c.	53	92	6	5	-	-	1010.4	+34	W	5	b	49	85	7	5	-	-	1	2000	1	*	54	49	45	Tr	3	0.0				
	Boscombe Down	417	1008.3	-34	SW	6	d.c.	53	92	6	5	-	-	1011.0	+18	W	4	b	48	85	7	5	7	-	Tr	1	3000	1	*	54	54	45	Tr	3	0.0			
	Thorney Island	10	1010.3	-22	SW	5	id.	53	97	6	5	-	-	1011.1	+26	WS	4	bc	51	85	6	1	-	-	2-3	2-3	1500	1	*	55	50		0.3	2				
	Lymington	346	1012.2	-18	SW	6	c/d	52	97	5	5	-	-	1010.7	+26	WSW	4	bc	49	75	8	3	6	-	2-3	2-3	1500	1	*	54			0.2	Tr	2	0.0		
	Manston	154	1010.2	-13	SW	6	id.	52	92	6	5	-	-	1007.8	+12	W	6	bc	49	75	8	3	6	-	2-3	2-3	1500	1	*	58	49	44	Tr	2	0.0			
2	Shoeburyness	11	1009.6	-20	SWW	5	ir.	53	92	7	6	-	-	1008.2	+22	WS	5	c	50	85	5	5	3	-	4-6	9	1400	1	*	56	50	44	-	1	0.8			
	Felixstowe	15	1007.7	-22	SWS	5	id.	51	92	6	5	-	-	1005.8	+10	WS	5	bc	50	75	8	5	-	-	2-3	2-3	1500	1	4	54	50	46	-	1	0.0			
	Gorleston	5	1007.0	-10	SWW	5	2.	55	85	6	5	-	-	1005.1	-10	WSW	4	bc/pr	50	85	7	8	3	-	2-3	4-6	1500	1	4	57	50	45	-	3				
	Mildenhall	19	1006.0	-18	SWS	5	ir.	55	85	6	5	-	-	1005.3	+26	WSW	5	c	47	85	8	5	7	-	2-3	7-8	4000	1	*	55	47	42	Tr	2	0.0			
	Cranwell	240	1001.9	-24	SW	6	2.	54	85	6	5	7	-	1003.3	+20	WS	5	2.	47	85	6	5	-	-	9+	9+	1500	1	*	55	47	46	Tr	3	0.3			
3	Birmingham	535												1007.1	+26	WSW	4	bc	47	85	8	5	-	-	2-3	2-3	2500	1	*	55	46	43	-	4	0.2			
	Upper Heyford	408	1004.7	-26	SW	5	ir	53	92	5	5	2	-	7-8	10	1100	1007.7	+32	W	4	4	48	75	6	5	-	9+	9+	3000	1	*	54	47	48	Tr	2	*	
4	Ross-on-Wye	223												1009.4	+22	WSW	4	c	50	75	8	8	-	-	7-8	7-8	3000	1	*	54	48	43	0.5	4	0.1			
5	Hartland Point	299	1006.6	+10	W	6	c	51	92	7	6	2	-	4-6	7-8	1500	1012.0	+24	WNW	5	c	51	85	8	5	-	7-8	7-8	1500	1	5	54	51	49	2	2	0.0	
	Bristol	209	1005.6	-26	SSW	6	dr	53	92	6	6	1	-	7-8	10	1100	1011.0	+32	W	5	c	49	85	7	5	3	-	4-6	7-8	2500	1	*	55	48	44	Tr	2	0.1
	Portland Bill	32	1008.8	-30	SW	5	rr	53	92	7	5	-	-	1010.1	+28	W	5	c	52	92	7	5	2	-	7-8	10	2500	1	5	54	50		1	2	*			
	Plymouth	82	1009.9	-14	WSW	7	bc/r	53	97	6	5	3	1	2-3	4-6	1200	1013.7	+18	W	5	bc	51	92	7	2	-	2-3	2-3	2500	1	4	54	51	45	1	2	0.0	
	The Lizard	240	1011.4	0	WS	7	bc	53	97	7	8	-	-	4-6	4-6	1500	1014.8	+16	W	5	bc	52	92	8	4	-	4-6	4-6	2500	1	5	54	50	*	0.3	1	0.0	
	Scilly (St. Mary's)	163	1011.2	+16	WNW	5	bc	52	92	7	5	3	-	2-3	4-6	1500	1014.9	+18	WN	3	bc	51	97	7	5	3	-	1	2-3	1500	1	4	53	51	*	0.2	1	0.0
	Guernsey	175																																				
6	Pembroke	142	1005.3	+4	WS	8	cq	52	92	7	8	6	-	4-6	7-8	2500	1011.0	+30	WNW	4	bcq	51	75	7	2	6	-	2-3	4-6	4000	1	5	53	48		1	4	0.0
7	Holyhead (Valley)	26	1000.4	+10	WN	7	bc	50	75	7	5	-	-	2-3	2-3	2500	1007.2	+40	WNW	4	c	49	92	8	5	6	-	2-3	7-8	2500	1	4	52	48	45	0.5	2	*
	Chester (Sealand)	16	1000.3	-16	WS	4	pr	53	85	6	8	-	-	2-3	9	2200	1006.3	+38	W	4	c	51	75	7	5	-	9	9	2500	1	*	57	50	41	-	2	3.0	
8	Manchester	235	1001.0	-14	SW	5	c	51	97	7	5	-	-	7-8	7-8	2500	1005.1	+34	WNW	5	c	48	92	7	4	-	9	9	1800	1	*	55	47	46	-	2	*	
10	Spurn Head	29	1000.6	-28	SW	5	ir.	53	85	6	6	-	-	9+	9+	2500	1000.4	+18	WS	5	ir	47	92	7	9	-	10	10	2500	2	*	54	47		-	3	3.2	
	Catterick	175	997.1	-20	WSW	4	bc/r	53	85	6	5	-	-	4-6	4-6	1800	1000.4	+30	WNW	4	bc	50	75	7	5	-	2-3	2-3	2200	0	*	55	49	45	Tr	0.2	2.2	
	Tynemouth	108	995.9	-26	W	6	c/pr	53	85	7	2	-	-	7-8	7-8	1500	998.1	+24	WNW	6	bc	50	85	7	8	-	2-3	2-3	1500	1	3	55	50	45	-	1	*	
11	St. Abbs Head	280	992.6	-12	SW	3	%r	50	92	7	5	4	-	4-6	7-8	1500	995.2	+24	WNW	5	b	50	75	7	4	-	1	1	2500	1	3	50	48		-	0.1		
	Leuchars	36	991.4	-10	WSW	3	c	51	97	7	5	-	-	7-8	7-8	2200	995.7	+30	W	4	b	48	85	7	5	-	Tr	Tr	3000	1	*	51	41	41	Tr	2	0.0	
12	Renfrew (Abbots L.)	19	993.4	0	W	3	c	50	92	7	5	-	-	7-8	7-8	1200	1000.0	+38	WSW	4	c	49	85	7	5	-	9	9	3000	1	*	52	49	44	Tr	3	0.0	
	Eskdalemuir	794												999.3	+22	WN	5	ir.	47	85	6	5	-	-	9+	9+	800	1	*	48	46	43	0.4	12	0.0			
	Point of Ayre	30	995.9	+2	W	6	rr	50	92	7	6	2	-	9	10	1500	1003.0	+36	WNW	6	c	49	85	8	4	-	7-8	7-8	2000	1	5	53	48	*	-	5	2.1	
13a	Tiree	22	994.4	+32	WNW	4	bc/pr	49	92	8	8	-	-	4-6	4-6	2500	999.4	+20	WN	4	c/pr	50	92	8	8	-	7-8	7-8	1800	0	4	52	49		2	5	0.0	
13b	Stornoway	80	989.6	+30	WSW	5	bc	49	97	8	5	7	-	4-6	4-6	2500	995.5	+20	WSW	4	c/pr	45	92	7	8	7	-	7-8	10	1500	1	2	51	46		0.6	5	0.0
15	Dalwhinnie	1178												997.7	+34	WNW	4	o	46	85	7	5	-	-	10	10	2500	1	*	47	44	40	0.2	7	0.6			
	Aberdeen	79												994.2	+38	WNW	4	b	49	75	8	5	-	-	1	1	3300	1	2	53	48	39	-	-	5.0			
	Wick	119	987.1	-2	WSW	4	c	51	85	8	5	-	-	9	9	2500	992.6	+34	WNW	4	c/r	46	85	7	5	-	9+	9+	1400	1	*	54	45	44	-	0.3		
16	Sumburgh	30	983.8	-8	SWW	5	c/r	50	97	6	6	-	-	10	10	800	987.3	+30	WNW	8	c/pr	47	75	7	8	-	9	9	1500	1	7	50	46	44	0.4	1	0.0	
17	Blackod Point	18	1001.3	+38	W	5	bcq	50	86	7	2	-	-	2-3	2-3	2500	1004.8	+8	WSW	3	c	51	85	8	-	4	-	0	9+	-	1	4	54	47		3	2	*
18	Malin Head	84	995.8	+30	NW	3	c	51	85	7	9	-	-	7-8	7-8	1500	1001.1	+18	WNW	4	c	50	85	7	8	9	-	4-6	7-8	1500	1	5	53	52	47	0.2	2	1.0
	Aldergrove	268	997.4	+26	WS	4	pr	48	92	8	8	3	-	9	10	2800	1004.5	+36	WS	4	pr	47	92	7	8	-	9+	9+	3200									

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

SECRET

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

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. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.				Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.				State of Ground. 0-9	Sea. 0-9	WEATHER.					
				Dir.	Force.					Form.	Amount.	Height of Base. (feet)	Dir.			Force.	Form.					Amount.	Height of Base. (feet)	7h.—13h. 11h.—	13h.—18h. 11h.—			18h.—11h. 12h.—	1h.—7h. 12h.—				
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lymington ... Manston ...	1014.2 1014.3 1014.4 1015.0 1015.3 1015.3 1014.2	+1 +1 +6 +6 +18 +18 +2	WSW WSW W WSW WSW WSW WSW	3 3 4 4 4 4 4	c c c c c c c	53 53 52 51 54 52 52	65 75 75 85 75 75 75	7 7 7 7 7 1 1	5 4 7 5 7 - -	2-3 T 4-6 4-6 2-3 1 1	2500 2500 1700 2500 2500 1500 3000	1014.3 1015.1 1014.3 1015.0 1015.3 1016.7 1015.2	-4 0 -4 -2 0 0 +8	SW SW SW SW SW SW SW	4 3 3 4 3 3 3	id bc c c/d id id id	51 51 51 50 51 49 49	85 85 85 82 92 92 75	6 6 7 5 5 7 6	5 5 5 5 5 5 7	2 - - - - 8 6	7-8 10 10 10 7-8 10 7-8	1500 1800 3000 1800 2500 2700 3600	1 1 1 1 1 1 1	*	*	*	*	cb, zc bc, cz ebcc c b, cz bbcc bbcc	cmid c ccw c ido ido cm	cmoc cmo cmo cidmo cmo cmo bbccmo	cid. cm, d. cm, d. cidmo cid. cmo cidmo
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1013.7 1012.7 1011.1 1011.6 1020.3	+20 +30 +40 +18 +22	W W W WSW W	3 4 4 4 5	c c bc c c	52 52 51 51 51	75 75 75 85 75	8 5 7 5 7	5 5 4 5 6	- - 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 +6 -2 -3	SW SW SW SW SW	3 3 3 4 4	c bc bc bc bc	50 47 48 50 49	92 85 75 85 85	5 5 6 5 5	5 5 5 5 5	3 - - - -	4-6 4-6 4-6 3 10	2500 2500 1500 3600 3600	1 1 1 0 1	*	3	3	cm, bz bee c be cmz	cm cbe cbe cmz cmz	cmo cmo bccz cmoc cmo	cm, re 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	5 5	7 7	2-3 4-6	2500 2500	1010.8 1012.7	-8 -4	SW SW	3 4	c c	50 49	75 92	8 7	5 5	- -	10 4-6	10 1200	0 1	*	*	bee ebcc	ccw ccw	cmo cmo	cm, re cm, re	
4	Ross-on-Wye	1012.7	0	SW	3	c	51	75	8	5	-	3-10	3000	1012.0	-6	SW	4	c	51	85	8	5	-	3-10	10	2500	1	*	c	ccw	cmo	cm, re	
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 WS WSW WSW W WSW	5 4 5 5 4 4	c c c c c c	51 52 52 54 52 53	85 85 92 85 85 85	7 5 8 7 8 8	5 5 5 5 2 2	2 - - - - - -	7-8 10 10 10 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 92 97 97 92	8 7 7 6 7 7	5 5 5 5 5 5	2 - - 2 - -	7-8 10 10 10 10 10	1500 2500 2500 1500 1000 1200	1 1 1 1 1 1	5	4	cige bee c b, cz ebcc bee	cige cige c cmo cmo c	cmo bc, d c cmo cd, d cd	cm, re cm, re cid, pr cm, re cm, re cm, re	
6	Pembroke	1012.8	-2	SW	6	c	53	85	7	8	6	7-8	4000	1010.1	-20	SW	6	c	53	85	7	5	1	7-8	1500	1	4	cige	cmo	cm, re	cm, re		
7	Holyhead (Valley) Chester (Sealand)	1009.3 1010.2	-2 -6	SW WSW	5 3	c c	52 52	85 75	8 7	5 5	- 7	3-10 4-6	2500 2000	1008.2 1008.3	-22 -12	SW SW	6 4	c c	52 53	85 75	6 7	5 5	- -	10 4-6	1500 2200	1 1	4	bee ebcc	cmo	cm, re	cm, re		
8	Manchester	1009.7	+6	WSW	4	c	50	75	7	4	5	4-6	3000	1008.9	-8	SW	4	c	50	85	7	5	-	10	10	3700	1	*	c	ccw	cmo	cm, re	
10	Spurn Head Catterick Tynemouth	1008.9 1009.5 1004.4	+3 +18 +10	W W SW	4 4 5	c c c	50 50 51	75 85 75	7 8 6	7 4 2	- 2 -	3-10 7-8 7-8	2500 2100 2800	1009.6 1006.4 1005.1	0 -6 -8	SW SW W	3 4 4	c id z	49 51 51	75 75 75	7 6 6	5 5 8	- - -	10 10 3-10	1500 1500 2500	0 1 1	*	3	c bbcc bee	ccw ccw ccw	cmo cmo cmo	cm, re cm, re cm, re	
11	St. Abbs Head Leuchars	1001.4 1000.3	+14 +12	WNW W	3 5	c c	51 50	75 85	8 8	5 5	7 7	7-8 T-3	2500 3500	1001.7 1000.1	-10 -2	- WSW	0 3	c z	50 48	75 85	8 6	4 5	4 -	4-6 8	2500 2500	0 1	*	bee bc	ccw cmz	cmo cmo	cm, re cm, re		
12	Rearfoot (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	- - 0	3-10 10 7-8	1500 800 1800	1000.9 1002.8 1004.0	-22 -10 -16	WSW SW SW	3 5 5	z c c	51 49 52	75 92 85	6 4 8	5 5 8	- - -	10 10 8	1800 220 2000	1 1 0	*	4	c cige c	ccw ccw ccw	cmo cmo cmo	cm, re cm, re cm, re	
13A	Tiree	1000.8	-6	SW	4	bc	49	85	8	8	3	4-6	2100	1003.9	-36	SW	5	id	49	97	6	-	2	10	10	1200	1	5	bee	ccw	cmo	cm, re	
13B	Stornoway	998.7	+14	SW	4	c	47	92	8	8	7	7-8	1500	1001.8	-34	SW	7	id	50	97	7	5	7	7-8	1000	1	5	c	ccw	cmo	cm, re		
15	Dalwhinnie Aberdeen Wick Sumburgh	1001.3 999.2 998.1 993.5	+14 +14 +26 +34	WSW WSW WSW WN	3 1 3 7	c c c c	47 51 45 47	75 75 85 75	8 6 8 8	8 5 7 5	- - - -	4-6 1 3 4-6	2500 2600 3500 1500	1001.4 1001.5 1006.9 1003.5	-14 -12 -12 +14	SW SW SW W	4 3 1 1	id c c c	44 48 46 44	92 92 85 75	7 6 8 8	5 5 5 5	- - - -	4-6 4-6 4-6 10	1500 2200 3500 2500	1 1 1 1	*	2	4	bee bee c c	ccw ccw ccw ccw	cmo cmo cmo cmo	cm, re cm, re cm, re cm, re
17	Blackod Point	1001.7	-22	SW	5	bc	52	92	7	6	-	10	1500	1005.6	-28	SW	8	c	54	92	7	5	-	10	10	800	2	6	c	ccw	cmo	cm, re	
18	Malin Head Aldergrove	1000.7 1005.0	-20 -14	W SW	4 3	c id	49 47	85 92	8 7	5 5	8 -	4-6 8	2500 700	1004.7 1000.8	-44 -34	SW SW	5 4	bc c	51 51	85 85	6 8	5 5	- -	4-6 8	1500 2300	0 1	5	precip	cige	cmo	cm, re		
19	Birr Castle	1002.9	-10	SW	2	c	52	85	8	5	1	7-8	2500	1002.0	-14	SW	4	id	53	85	7	6	2	7-8	1500	1	5	bc	ccw	cmo	cm, re		
20	Valentia Obsy. Roches Point	1007.3 1010.0	-24 -10	SW SW	6 4	c c	53 53	85 85	8 8	5 5	2 -	3-10 3-10	1500 1500	1003.2 1006.0	-10 -26	SW SW	6 6	id id	55 53	97 92	6 6	5 5	- -	10 10	450 450	1 1	5	d	d	ccw ccw	cmo cmo	cm, re cm, re	

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

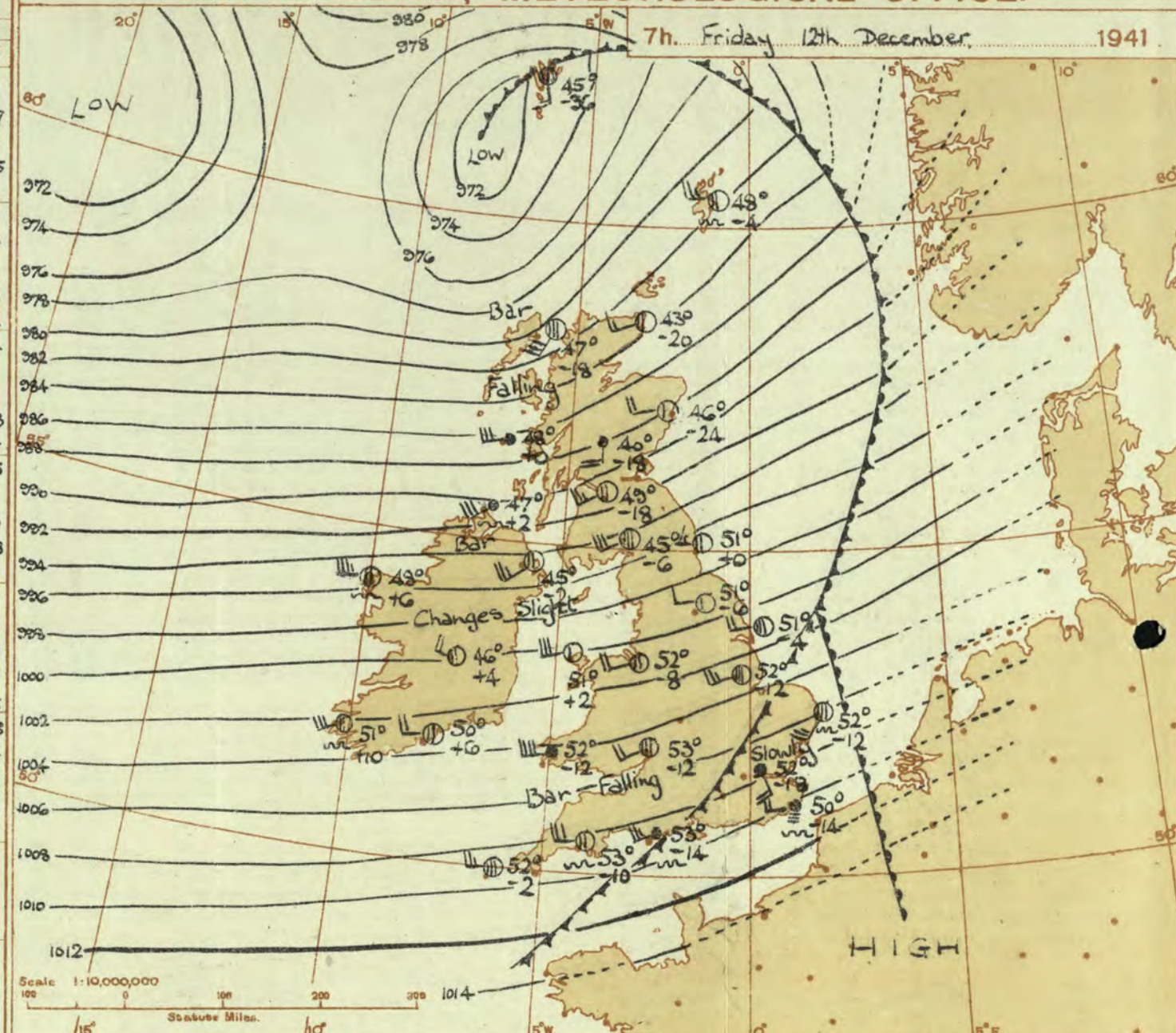
b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220-1100 yds.
F, thick fog, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 110

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 11th December 1941							01h. G.M.T. 12th December 1941			07h. 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	02364	20327	57	02955	12228	50	01963	51613	50	00962	51682
220	83	25844	25486	62	59316	22558				53	01744	24815
230				5-	21748	16258	8-	25745	53685	80	27853	53596
245	57	02051	22318	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	55682
301	5-	05646	22527	52	21644	20658	5-	21646	53666	53	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	21814	5-	05568	20328	57	02745	51467	5-	02666	20426
310	--	10636	24516	--	52428	20458				--	02638	20428
61456	05654	55865	5-	05658	55828		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
428										-2	67109	22549
430				5-	63648	24528	5-	52625	53568	52	54526	54658
409	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.	↓
13 A. W. Scotland	↓
13 B. N.W. Scotland	↓
14 Mid Scotland	
15 N. E. Scotland	↓
16 Orkneys and Shetlands	↓
17 N. W. Ireland	↓
18 N. E. Ireland	↓
19 S. E. Ireland	↓
20 S. W. Ireland	↓

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

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

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

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground

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

GENERAL INFERENCE.

A 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.)

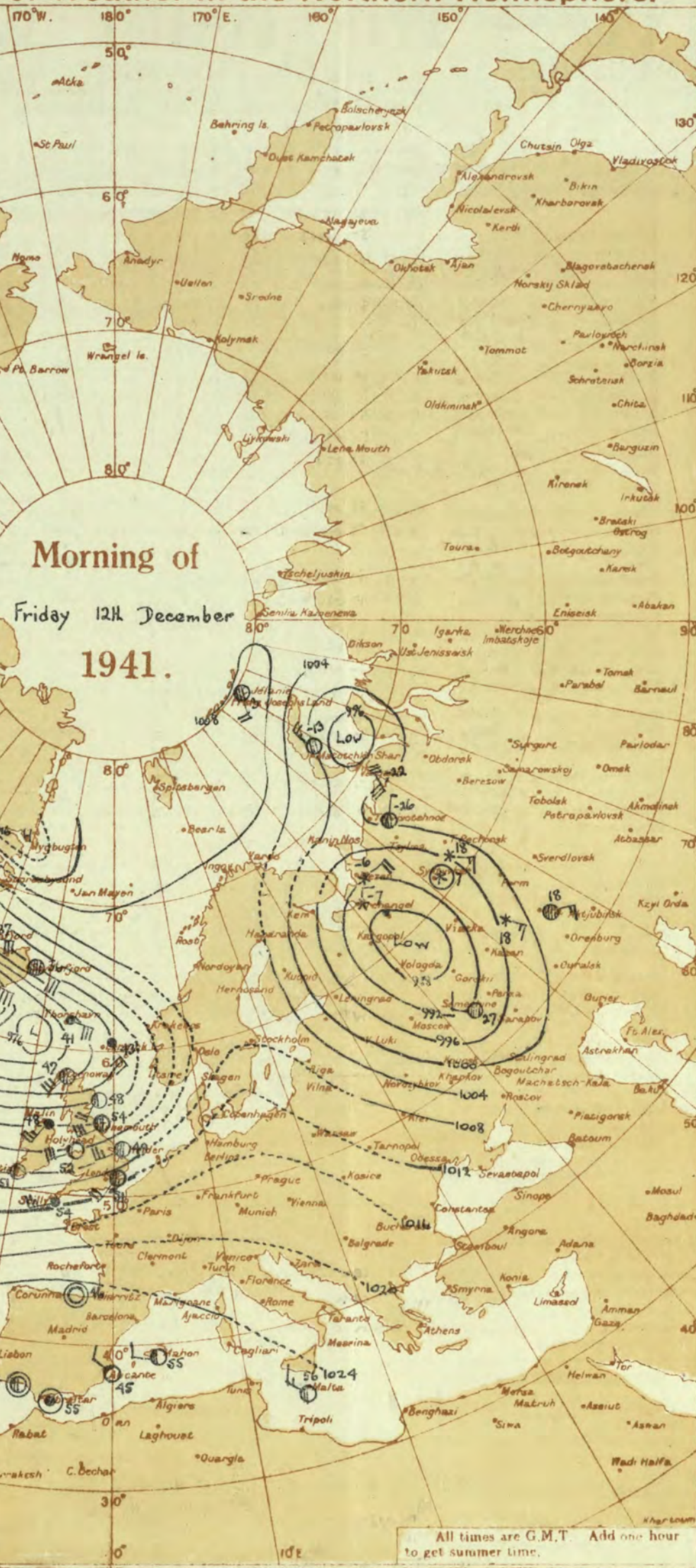
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



Morning of
Friday 12th December
1941.

Clarke'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. (T) Thunderstorm. (H) Slight haze. (S) Fog.

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.

BRITISH SECTION

Friday 12th December 1941.

No. 29,240

OBSERVATIONS at 1 hr. G.M.T. 12h. December															OBSERVATIONS at 7 hr. G.M.T. 12h. 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. 0-9 (9)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.		SUN-SHINE 11th. Hrs. (36)		
					Direc. (3)	Force. 0-12 (4)					Form. (10)	Amount. (11)	Height of Base. (feet) (12)	Direc. (17)	Force. 0-12 (18)			Form. (23)	Amount. (24)					Height of Base. (feet) (25)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)			Night 18h-7h mm. (35)							
																																Low. (13)	Med. (14)	High (11)	Low 0-10 (12)		Total 0-10 (18)	
1	London (Kew) ... 18	1011.7	-24	SSW	4	c	52	85	6	5	-	-	5	9	4000	1006.3	-20	SW	4	id.	52	92	6	5	-	-	10	10	1500	1	*	53	50	49	4.5	0.2	2.5	
	Croydon ... 217	1011.7	-22	SWW	4	z	51	85	6	5	-	-	9	9	4000	1008.1	-18	SW	4	id.	52	97	6	5	-	-	10	10	1000	1	*	53	49	45	4.5	0.2	3.3	
	S. Farnborough ... 226	1011.3	-22	SWW	4	z	52	85	6	5	-	-	10	10	1200	1007.3	-22	SW	5	id.	53	92	6	5	-	-	10	10	700	1	*	53	50	48	4.5	0.1	1.8	
	Boscombe Down ... 417	1011.7	-20	SSW	6	z	52	85	6	5	-	-	4.6	10	2000	1008.5	-14	SW	6	d.o.	53	97	6	5	-	-	10	10	600	1	*	54	49	45	4.5	0.4	1.3	
	Thorney Island ... 10	1012.9	-18	WSW	4	id.	51	97	6	5	-	-	9	10	1000	1008.9	-18	SW'S	4	id.	53	97	5	5	-	-	7.8	10	800	1	*	54	49	48	4.5	0.4	*	
	Lynpne ... 346	1014.7	-16	SW	5	c/r	51	92	7	7	5	-	3+	10	1500	1011.5	-14	WSW	4	df	50	97	3	-	-	-	10	10	1150	1	5.5	53	48	44	4.5	0.1	5.1	
	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	4.5	Tr	4.6	
2	Shoeburyness ... 11	1012.1	-22	SW	4	c	51	85	5	5	-	-	6	9	2500	1008.5	-18	SW'S	4	c	51	92	6	5	-	-	10	10	2900	1	*	53	50	45	4.5	-	2.8	
	Felixstowe ... 16	1010.8	-18	SW	4	z	50	85	6	5	-	-	9+	9+	2700	1007.2	-14	SW	5	c	50	92	8	5	-	-	10	10	1000	1	3	53	47	43	4.5	-	0.9	
	Gorleston ... 5	1009.6	-24	SW'S	5	c	51	75	7	5	-	-	7.8	7.8	1500	1006.6	-12	SW'S	5	z	52	85	6	8	-	-	4.6	10	2500	0	5	53	47	44	4.5	-	*	
	Mildenhall ... 19	1009.3	-22	SSW	5	c	50	85	7	5	7	-	4.6	7.8	2500	1005.5	-14	SW'S	5	c/r	53	92	7	5	7	-	4.6	5	1500	0	*	52	50	44	4.5	-	0.4	
	Cranwell ... 240	1006.3	-14	SW	6	z	50	85	6	5	-	-	7	7.8	10	2000	1002.6	-12	SW	5	z	52	85	6	5	7	-	7.8	9+	3500	1	*	55	49	47	4.5	Tr	1.8
3	Birmingham ... 535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.7	-26	SW'S	4	c/r	51	92	8	8	7	-	7.8	9	3000	1	*	51	49	45	4.5	1	*	
	Upper Heyford ... 408	1009.3	-18	SSW	4	z	50	85	6	5	1	-	9	10	1100	1004.7	-26	SW'S	4	c	53	85	7	7	7	-	2.3	7.8	2500	1	*	53	49	48	4.5	0.1	1.1	
4	Ross-on-Wye ... 223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.0	-12	SW	4	c	53	85	7	7	7	-	2.3	7.8	2500	1	*	53	49	48	4.5	0.1	1.1	
5	Hartland Point ... 299	1007.3	-16	WSW	6	ir	52	97	6	5	2	-	4.6	10	1500	1005.9	-18	WN	5	bc	52	92	7	5	-	-	4.6	4.6	1500	1	5	52	51	50	4.5	3	0.0	
	Bristol ... 209	1009.2	-22	SW	5	c/d	52	85	7	5	2	-	7.8	10	1900	1005.7	-14	SSW	4	pr	54	85	7	5	4	-	2.3	7.8	1000	1	*	53	49	42	4.5	1	0.8	
	Portland Bill ... 32	1012.5	-6	SW	5	c	52	92	7	5	2	-	7.8	10	2500	1008.8	-14	SW	5	rr	53	92	7	5	-	-	10	10	2500	1	5	53	50	*	4.5	1	*	
	Plymouth ... 82	1011.7	-20	SW	7	r/r	52	97	5	5	-	-	10	10	800	1009.0	-10	W	6	c	53	97	7	1	3	-	2.3	2.3	2000	1	5	54	51	51	4.5	1	0.6	
	The Lizard ... 240	1011.4	-18	SW	7	d.o.	53	97	6	5	-	-	10	10	1000	1009.8	-4	W	6	bc	52	97	8	4	-	-	4.6	4.6	2500	1	5	53	51	*	4.5	1	0.6	
	Scilly (St. Mary's) ... 163	1010.2	-8	WSW	5	d.o.	54	97	5	5	-	-	10	10	1000	1009.9	-2	W	5	c	52	97	7	5	-	-	7.8	9+	1500	1	4	54	52	*	4.5	0.3	0.0	
	Guernsey ... 175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
6	Pembroke ... 142	1006.0	-14	SWW	8	r/r	53	97	6	8	2	-	7.8	10	1500	1004.0	-12	W'S	8	r/r	52	65	7	8	-	-	7.8	10	1500	1	*	53	49	*	4.5	3	0.0	
7	Highhead (Valley) ... 26	1001.9	-14	SW	6	z	52	97	6	5	-	-	2.3	2.3	2500	1000.7	+2	WSW	6	b	51	75	7	5	-	-	1	1	3000	1	*	53	50	47	4.5	1	*	
	Chester (Sealand) ... 16	1003.5	-20	SSW	5	d.o.	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	4.5	Tr	0.2	
8	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	4.5	0.5	*	
10	Spurn Head ... 29	1004.9	-26	SW	5	c	49	85	7	5	-	-	9+	9+	1500	1001.9	-4	WSW	4	c	51	92	7	5	1	-	4.6	7.8	1500	0	4	50	45	*	4.5	Tr	2.8	
	Catterick ... 175	1000.9	-24	SSW	2	c	53	85	7	5	7	-	7.8	10	1400	998.4	-6	W'S	2	b	51	75	7	1	4	-	Tr	1	2200	0	*	52	50	47	4.5	Tr	*	
	Tynemouth ... 108	998.8	-20	SW	6	cq	54	92	7	2	-	-	7.8	7.8	2500	996.5	0	W	3	bc	51	75	7	1	4	1	2.3	2.3	4000	1	3	53	50	47	4.5	Tr	*	
11	St. Abbs Head ... 280	993.6	-34	W	5	bc	52	85	8	4	4	-	2.3	4.6	2500	993.1	+2	SW	5	bc	46	85	8	4	4	-	2.3	2.3	2500	0	3	47	46	*	4.5	0.1	*	
	Leuchars ... 36	991.7	-36	SW	7	z	53	85	6	5	-	-	9+	9+	1800	990.6	-18	SW	5	z	46	85	6	5	-	-	2.3	2.3	2500	1	*	50	46	42	4.5	0.4	1.4	
12	Renfrew (Abbots L.) ... 19	994.1	-10	WSW	6	bc	52	65	8	5	-	-	2.3	2.3	2500	992.0	-18	SW	5	bc	49	75	7	8	-	-	4.6	4.6	2000	1	*	51	48	43	4.5	2	0.0	
	Eskdalemuir ... 794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	994.5	-6	SW	6	c	43	85	7	5	3	-	4.6	4.6	1500	1	*	48	44	42	4.5	6	0.0	
	Point of Ayre ... 30	997.9	-18	WSW	6	c	54	85	8	5	1	-	4.6	7.8	3000	996.9	-8	W'S	6	bc	50	75	8	9	-	-	4.6	4.6	1800	0	5	52	48	*	4.5	Tr	1.8	
13A	Tiree ... 22	989.7	0	SW	5	bc	48	85	8	9	7	-	4.6	4.6	2500	986.9	0	WSW	6	pr	47	75	7	8	-	-	7.8	7.8	1500	1	*	50	41	*	4.5	5	0.0	
13B	Stornoway ... 80	984.2	+2	SSW	7	bc/r	47	85	7	8	7	-	2.3	4.6	1000	980.4	-18	SSW	6	c/r	47	85	7	5	7	-	7.8	10	1000	1	3	50	45	*	4.5	7	0.0	
15	Dalwhinnie ... 1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	988.3	-18	S	4	rR	40	85	7	5	-	-	9+	9+	1500	1	*	49	39	35	4.5	8	1.2	
	Aberdeen ... 79	*	*	*	*	*	50	*	*	*	*	*	*	*	*	987.7	-24	WSW	4	b	46	75	8	5	-	-	Tr	Tr	2600	1	2	52	44	40	4.5	1	0.1	
	Wick ... 119	986.2	-42	SW'S	5	c	49	85	8	5	1	-	4.6	7.8	2500	984.2	-20	SW	3	bc	43	85	8	5	-	-	1	Tr	4000	1	*	47	40	37	4.5	2	*	
16	Sumburgh ... 30	987.7	-60	SE'S	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	5	47	40	31	4.5	6	0.0	
17	Blacksod Point ... 18	995.4	-4	SW	6	bcq	50	75	7	2	-	-	2.3	2.3	1500	995.7	+6	W'S	7	bc/pr	48	85	7	9	-	-	4.6	4.6	1500	1	6	55	47	*	4.5	2	*	
18	Malin Head ... 84	992.9	+2	SSW	5	pr	48	75	6	9	-	-	7.8	7.8	1500	990.5	+2	SW	6	pr	47	75	6	6	-	-	4.6	7.8	1500	1	5	52	44	*	4.5	4	0.0	
	Aldergrove ... 268	997.0	+14	SW	4	b	48	85	8	5	-	-	Tr	Tr	2500	995.4	-2	SW'S	5	bc	45	85	8	1	-	-	2.3	2.3	2500	1	*	51	44	41	4.5	1	0.0	
19	Birr Castle ... 173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1000.2	+4	W	4	bc	46	75	8	-	3	-	0	4.6	-	1	*	53	44	42	4.5	2	0.0	
20	Valentia Obay. ... 30	1003.0	0	SWW	6	b	51	75	8	5	-	-	1	1	2500	1003.5	+10	WSW	6	bc	51	65	8	2	-	-	4.6	4.6	2500	1	6	55	49	46	4.5	1	*	
	Roches Point ... 22	1004																																				

LONDON OBSERVATIONS.

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

Height above
S.E. in feet.

18
217
149
—
27
168
110
80
450

Weather

Morning. Afternoon. Night.

24 hrs. ended 9h.

cbczc c cm id. cm cid
bccm c cm id. d
c c c
.
.
.
bc c
bcc c
bc bcod or

Temperature.

Day Max. Night Min. Min. on Grass °F.

°F. °F.

53 50 49
53 49 45
53 50 45
.
56 50 48
54 50 47
51 51 45
54 52 47
51 49 45

Rainfall.

Day. Night.

mm. mm.

Tr Tr
— 0.2
— 0.5
.
0.1
Tr
6
— 0.4
2

Sun-
shine,
to
Sunset.
hrs.

Humidity.

16h. 9h.
G.M.T. G.M.T.
% %

2.5 .
3.9 .
1.9 70 91
.
83 89
83 93
.
79 96
.
39

Atmospheric Pollution.

Miligrams of Solid Impurity
per cubic metre.

24 hrs. ended 7h. G.M.T. 12h.

SOUTH KENSINGTON.

Max. Time. Min. Time.

Kew Observatory.

Max. Time. Min. Time.

0.1 7-13h 11h Rest of Period

EXPLANATION of FIGURES, LETTERS, etc.

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

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

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 " 0 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.

FOREIGN OBSERVATIONS.

Evening of 11th December
Morning of 12th December
Past 24 Hours.

STATIONS.

Barom. mb. Wind. Direc. Force. Weather. Temp. °F.

Barom. mb. Wind. Direc. Force. Weather. Temp. °F.

Max. Day °F. Min. Night °F. Rainfall. Day mm. Night mm.

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

998.6 E 8 r s 33 980.0 E 6 c 39
1026.0 NE 1 f s 52 1025.8 NE 2 F+ 48
903.0 — 0 bc *
.
.
1020.9 NW 1 c 58
.
.
.
.
.
.

54 46 45
54 46 45
.
.
.
.
.
.

Tr Tr
Tr Tr
Tr Tr
Tr Tr
Tr Tr
Tr Tr

[†] Pressure at 1,000 dynamic metres level.

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

† Sea disturbance reported from Dungannon.

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

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

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

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

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

~~SECRET~~
EXPERT SECTION
Saturday 13th December 194

No 29,241

OBSERVATIONS at 13h. G.M.T. 12th December														OBSERVATIONS at 18h. G.M.T. 12th December														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.						Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.						State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				Direc. (3)	Force. 0-12 (4)				Weather. (5)	Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Form. (23)	Amount. (24)			Height of Base. (feet) (25)	State of Ground. 0-9 (29)				Sea. 0-9 (30)	7h.—13h. 12h. (37)	13h.—18h. 12h. (38)	18h.—12h. 13h. (39)	12h.—7h. 13h. (40)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
																											Low.			Med.	High	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low	Total	Low

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 clouds).
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 intensity;
suffix o indicates slight; repetition
of letters indicates continuity: thus
R, heavy rain. r_o, slight rain.

rr, continuous rain.

<, less than (for cloud height). ☼gale.
☉ Solar halo. ☾ Lunar halo. ☀ Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

"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: Alto cumulus, -Ac: Altostratus, -As:
Stratocumulus, -Sc: Stratus, -St: Nimbostratus, -Ns: Cumulus, -Cu: Cumulonimbus, -Cb.

COLUMN 29 — STATE OF GROUND

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

Ground covered with snow, less than 6 ins., deep but ground not frozen.
 „ covered with snow, less than 6 ins., but ground frozen.
 „ covered with snow greater than 6 ins. deep.
 Fresh snow has fallen in the mountains.

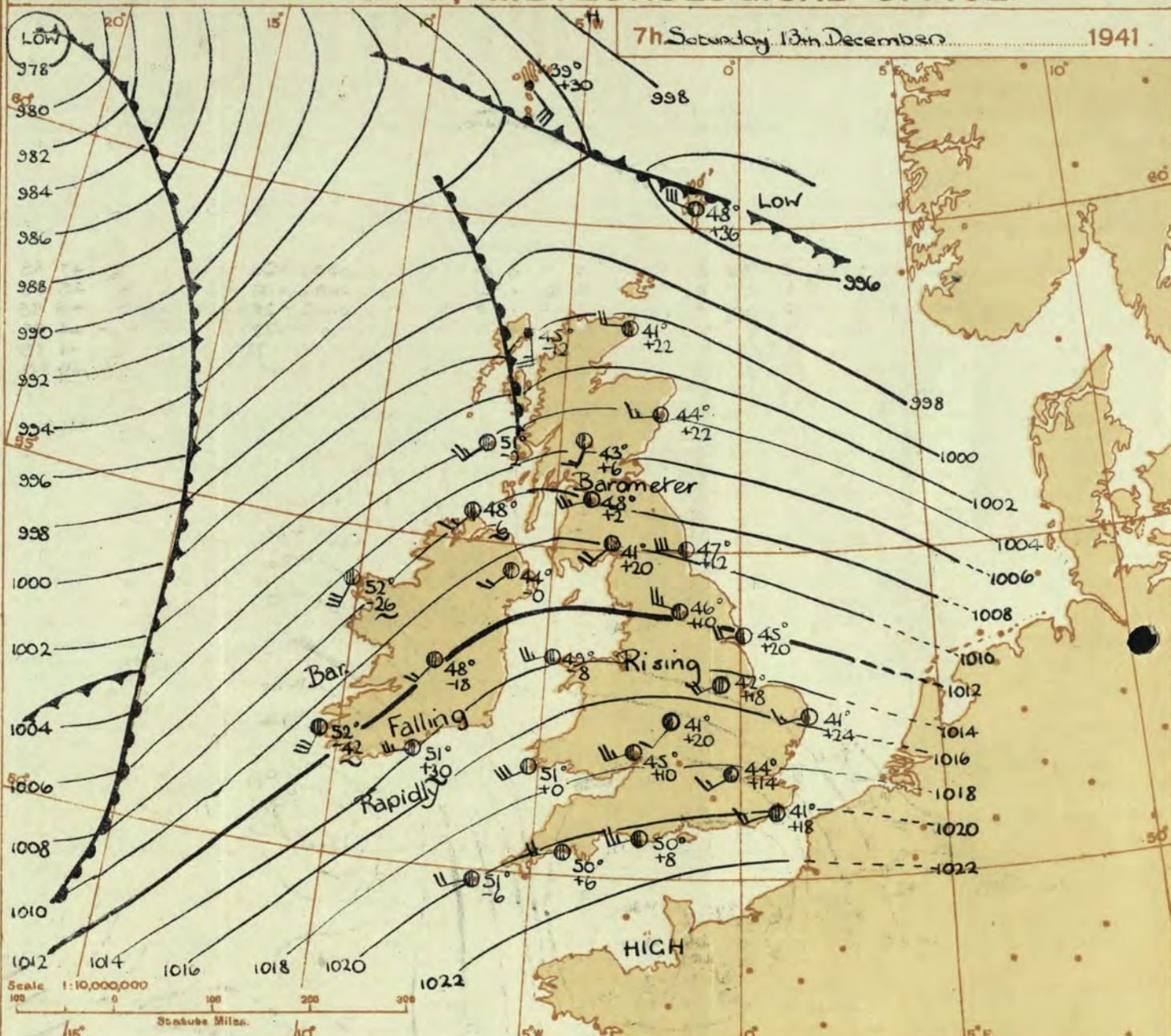
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 12th December 18h. G.M.T.	01h. G.M.T. 13th December 07h. G.M.T.
III C ₁ wwVh ₁ DDEWN C ₂ C ₃ wwVh ₂ DDEWN C ₄ C ₅ wwVh ₃ DDEWN C ₆ C ₇ wwVh ₄ DDEWN	
109 37 81844 20520 37 81744 18485 30 25745 50085 8- 00753 57083	
115 87 81844 53580 52 81834 24587 87 14244 57780 52 62735 20588	
203 8- 02837 20787 5- 03838 20088 5- 03838 20028	
206 80 25054 22380 3- 82748 55088 8- 25754 55484 83 81855 22485	
210 06 01052 51523 8- 25857 53087 53 02054 22387	
220 80 08747 26087 8- 81048 87788 8- 25747 50087 8- 25788 53483	
230 3- 81857 54487 3- 81048 87788 8- 25747 50087 8- 25788 53483	
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 2786 02847 50017 50 00853 57083 20 00844 81581 87 02854 21428	
279 3- 10850 55017 40 01753 55023 50 01853 57013 87 02855 55027	
285 20 25854 24584 20 81755 25085 5- 02748 26028	
288 30 00853 55583 50 00851 53401 50 01875 53405 52 02780 20318	
575 5758 81047 57587 30 25743 53583 5- 25758 24388 62 02744 20427	
301 43 01751 22514 30 00753 58883 00 00700 57780 50 01751 55014	
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 24310	
310 -- 01033 24413 -- 01033 24513 -- 02707 24310	
314 33 05054 22324 50 05050 55300 00 05050 55500 53 05054 22225	
333 23 01853 57013 2- 01853 24513 50 00851 24411 51 02803 24317	
334 -- 00700 20201 -- 00700 20201	
340 3- 01754 24384 2- 25857 55587 50 00703 50413 07 02730 20317	
136 43 01703 20584 00 00700 21510 50 01873 22503 03 02730 20517	
336 52 02764 24527 2+ 02754 24515 14 01753 24415	
350 80 00842 53582 57 01702 54404 57 02754 21420	
308 3- 82047 55587 30 82045 57085 00 00700 57500 5- 05064 21327	
379 23 02755 22485 20 25734 22484 00 00700 22400 00 05090 22428	
390 83 05052 24505 00 05050 22400 50 00701 23401 07 02730 23418	
382 83 02855 55425 40 00703 57403 00 00730 24400 01 02730 20338	
438 5- 02755 24045 5- 02765 24515	
430 83 01744 54425 80 00744 24381 00 00830 24400	
409 54 02555 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	
2 E. England ...	Moderate W. wind backing S.W.; cloudy; rain later; becoming milder.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	Freshening S.W. wind, strong to gale on coasts, decreasing and veering W. later; cloudy; rain at times; mild.
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.)

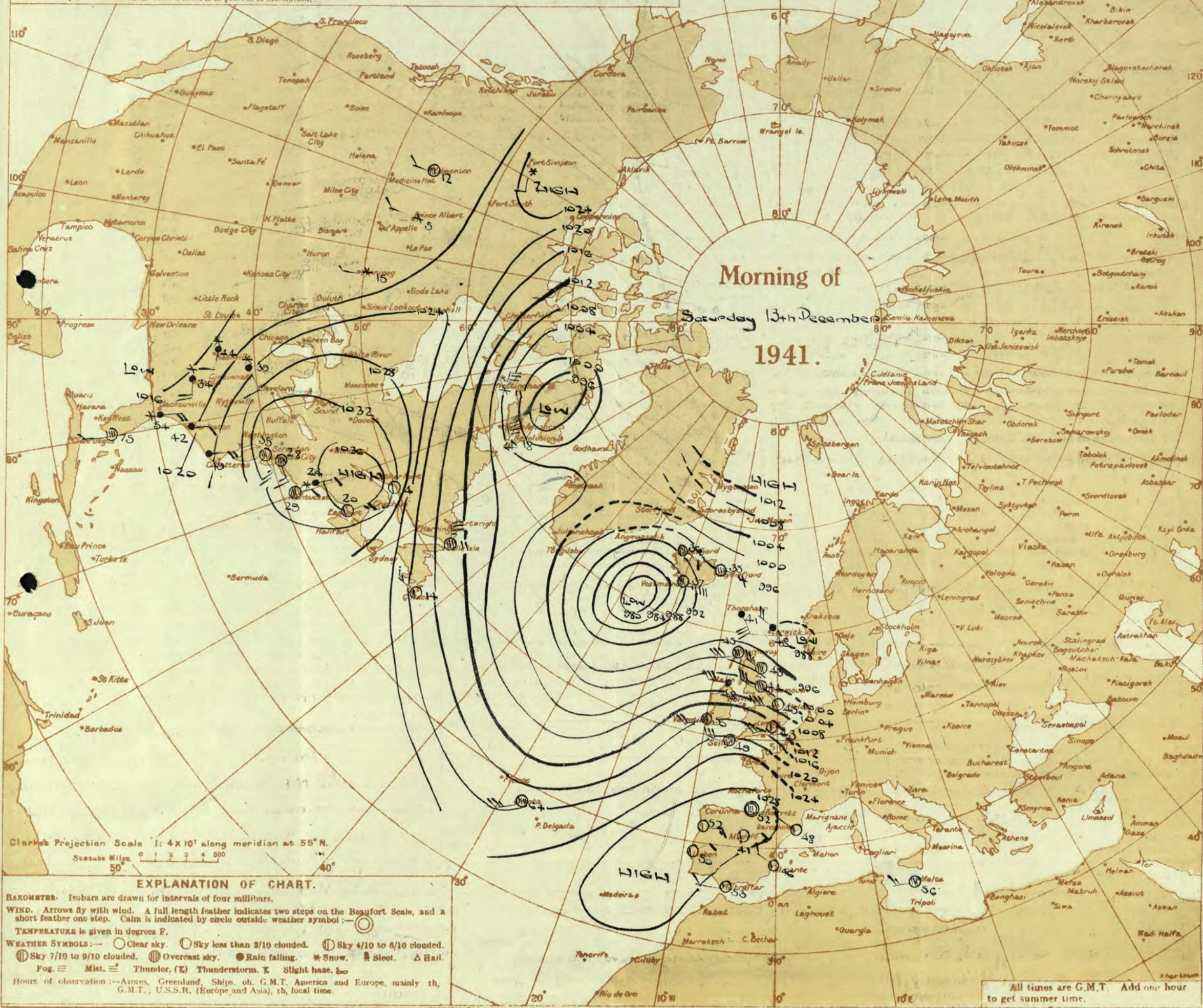
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

 BRITISH SECTION
 Saturday 13th December 1941.
 No. 29,241

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.					State of Ground.	Sea.	TEMPERATURE.			RAINFALL.		SUN-SHINE 12th Hrs.					
					Direc.	Force.				Form.	Amount.	Height of Base (feet).	Direc.	Force.			Form.	Amount.				Height of Base (feet).	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.			Night 18h-7h mm.										
																														Low.	Med.	High.	Low.		Med.	High.	Low.	Med.	High.
1	London (Kew)	18	*	*	WSW	4	44	75	6	*	*	*	2-3	2-3	4000	1013.4	+18	WSW	2	C	44	85	6	5	-	9+	9+	4000	1	55	42	35	3	-	2.5				
	Croydon	217	1015.8	+3.2	WSW	4	43	75	6	*	*	*	2-3	2-3	4000	1013.4	+14	SW	3	C	44	85	6	5	-	9+	9+	4000	1	55	41	34	1	Tr	1.5				
	S. Farnborough	226	1016.2	+2.6	WS	3	42	85	7	-	-	-	0	0	-	1013.8	+12	WSW	4	C	42	85	7	2	7	6	2.3	7.8	3000	1	55	40	36	1	Tr	2.1			
	Boscombe Down	417	1017.2	+2.4	W	3	41	85	6	-	-	-	0	0	-	1020.3	+10	SWW	2	C	40	85	6	5	-	9+	9+	4000	1	55	37	32	3	1	3.2				
	Thorney Island	10	1017.5	+2.6	WS	4	45	85	7	S	-	-	Tr	Tr	2500	1020.8	+10	WSW	3	C	47	85	7	-	7	-	0	9+	-	1	55	40	39	2	-	1.8			
	Lymington	346	1016.1	+2.6	W	4	41	85	7	-	-	5	0	2.3	-	1020.6	+18	WSW	3	C	41	97	8	5	-	9+	9+	3200	1	55	39	35	4	Tr	2.3				
	Manston	154	1014.6	+3.0	WS	3	42	75	6	-	3	-	0	1	-	1013.5	+26	WSW	3	C	40	85	6	-	7	-	0	9+	-	1	56	38	33	0.5	-	2.3			
2	Shoeburyness	11	1014.4	+3.2	SWW	4	44	75	6	-	-	-	0	0	-	1013.9	+18	WSW	3	C	45	85	5	5	7	-	4.6	10	2300	1	56	43	36	1	Tr	1.4			
	Felixstowe	15	1013.0	+3.0	WS	4	43	75	7	S	-	-	Tr	Tr	2500	1017.9	+22	WSW	4	C	43	75	7	-	4	6	0	9	-	1	3	54	42	36	1	Tr	0.6		
	Gorleston	5	1010.4	+2.6	WSW	4	44	65	6	-	-	-	0	0	-	1015.7	+24	WSW	3	C	41	75	7	-	4	-	0	2.3	-	1	3	54	41	38	2	-	0.7		
	Mildenhall	19	1011.9	+2.6	SWW	5	42	85	7	S	-	-	2.3	2.3	4000	1016.3	+18	SWW	5	C	42	85	8	-	7	-	0	9+	-	1	55	40	35	2	-	2.5			
	Cranwell	240	1010.7	+3.0	WSW	4	42	75	6	S	-	-	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	9+	-	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			
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.7	+10	WSW	2	C	45	85	7	5	7	7	Tr	3000	1	53	44	37	0.5	-	-	-			
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	52	48	44	1	0.1	2.3			
	Bristol	209	1016.4	+2.4	NW	6	44	85	7	-	-	-	0	0	-	1013.6	+4	WSW	5	C	46	85	7	5	1	-	4.6	10	2500	1	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	54	47	40	0.5	-	-			
	Plymouth	82	1019.4	+6	WNW	6	48	75	8	1	-	-	Tr	Tr	3000	1021.1	+6	WS	4	C	50	75	8	-	7	7	0	9+	-	0	4	54	46	0.5	Tr	3			
	The Lizard	240	1020.7	+20	WNW	5	50	75	7	8	-	-	4.6	4.6	1500	1021.1	+2	WSW	4	C	50	75	7	8	2	-	9	10	1500	0	4	52	48	0.1	Tr	2.3			
	Scilly (St. Mary's)	163	1021.2	+1.4	WNW	5	49	85	7	8	7	3	2.3	9	1500	1020.2	-6	WSW	4	C	51	75	7	5	-	10	10	1500	1	4	53	48	1	Tr	0.0				
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.4	0	SWW	6	C	51	85	7	8	1	-	2.3	4.6	2500	1	4	50	45	1	Tr	2.3			
6	Pembroke	142	1017.1	+2.4	WN	6	47	85	7	2	-	-	2.3	2.3	4000	1017.4	0	SWW	6	C	51	85	7	8	1	-	2.3	4.6	2500	1	4	50	45	1	Tr	2.3			
7	Holyhead (Valley)	26	1013.2	+2.6	W	6	47	75	8	5	-	-	Tr	Tr	3000	1014.1	-8	WSW	5	C	49	75	7	5	1	-	1	10	2500	0	52	49	40	0.4	-	-			
	Chester (Sealand)	16	1012.7	+3.0	W	4	47	65	7	5	-	-	1	1	4000	1014.8	+10	WSW	3	C	47	75	6	-	3	7	0	10	-	1	55	46	36	1	Tr	5.0			
8	Manchester	235	1011.8	+3.6	WSW	4	45	85	7	5	-	-	3	0	2.700	1015.1	+8	WSW	3	C	41	92	7	-	7	6	0	9	-	1	52	40	35	1	Tr	-			
10	Spurn Head	29	1008.0	+3.0	W	6	45	85	7	-	-	-	0	0	-	1013.2	+20	W	4	C	45	85	7	5	-	9+	9+	2500	0	4	52	43	1	-	1.7				
	Catterick	175	1007.1	+4.6	WSW	2	44	65	8	5	-	-	1	1	2500	1010.8	+10	WN	5	C	46	75	7	5	2	-	4.6	10	2500	0	52	43	38	1	Tr	3.0			
	Tynemouth	108	1003.7	+4.0	WNW	6	44	75	7	-	-	-	0	0	-	1008.3	+12	W	6	C	47	75	7	2	-	7.8	7.8	2500	1	4	51	43	35	1	Tr	-			
11	St. Abbs Head	280	999.0	+5.4	W	8	45	92	7	4	-	-	1	1	2500	1006.3	+18	SW	6	C	46	85	7	5	7	-	4.6	9	2500	0	4	48	42	1	-	-			
	Leuchars	36	1000.5	+5.0	W	6	44	85	7	5	-	-	1	1	4000	1005.5	+16	WNW	5	C	45	97	7	5	-	9+	9+	2200	1	5	47	40	36	5	Tr	0.3			
12	Renfrew (Abbots I.)	19	1004.7	+4.6	W	5	43	85	6	9	-	-	7.8	7.8	4000	1007.0	+2	WSW	5	C	48	75	7	5	1	-	9	10	3000	1	5	42	43	3	1	0.2			
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1009.8	+20	SWW	4	C	41	85	7	5	-	10	10	1500	1	5	40	39	37	2	2	0.1			
	Point of Ayre	30	1008.7	+2.0	WNW	6	45	85	8	-	4	-	0	Tr	-	1011.7	+4	W	5	C	48	85	7	-	2	-	0	10	-	0	4	50	44	1	-	3.4			
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.0	-2	SWW	5	C	51	97	7	5	-	7.8	7.8	1800	0	5	47	43	4	1	0.0				
13B	Stornoway	80	996.9	+3.4	WSW	6	45	85	7	5	7	-	4.6	9+	2000	999.5	-12	S	5	dd	45	97	7	5	2	-	9	10	1500	1	3	47	43	3	3	0.0			
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.3	+6	SSW	3	C	43	85	7	8	-	9+	9+	2500	1	5	42	37	32	13	18	0.0			
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.6	+2.2	W	3	C	44	75	8	-	7	-	0	1	-	1	2	43	41	3	4	4.6			
	Wick	119	994.4	+4.4	WN	5	44	85	7	8	-	-	9+	9+	1500	999.9	+2.2	W	4	C	41	85	8	5	3	-	7.8	7.8	2500	1	5	40	39	37	0.2	3	0.0		
16	Sumburgh	30	989.1	+3.6	WNW	4	48	75	6	8	-	-	9+	9+	1000	996.2	+3.6	WN	6	C	48	85	7	8	-	9	9	1200	1	5	48	43	41	3	4	0.0			
17	Blackod Point	18	1009.7	-2	WSW	6	45	75	7	-	1	-	0	10	-	1005.8	-26	SSW	6	C	52	85	7	5	-	10	10	2500	0	6	50	44	2	-	-	-			
18	Mahn Head	84	1006.6	+2.6	W	8	48	75	6	6	-	-	3	3	1500	1006.1	-6	SWW	3	C	48	85	7	5	-	7.8	7.8	2500	1	5	48	41	3	0.6	0.0				
	Aldergrove	268	1009.9	+2.8	WSW	3	41	92	8	S	-	-	1	1	2500	1010.5	0	SSW	3	C	44	85	7	5	-	10	10	3000	1	5	47	40	37	0.4	Tr				

AIR
MINISTRY.

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.							
DIRECTION.	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.					
				Dir.	Force. 0-12					Low.	Med.	High.	Low 0-10	Total 0-10			Height of Base. (feet)	Low.					Med.	High.	Low 0-10	Total 0-10	Height of Base. (feet)			7h.-13h. 13th	13h.-18h. 13th	18h.-14th 14th	14th-7h. 14th		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(39)	(40)		
1	London (Kew)...	1013.2	-22	SW	3	c	49	85	6	5	1	7	Tr	10	4000	1015.3	-12	SW'S	4	c	49	85	6	5	2	-	9+	10	1500	1	•	cm	cm	cm	cm
	Croydon ...	1013.4	-14	SW'S	3	c	50	75	6	5	7	6	Tr	10	1800	1016.4	-14	S'W	5	c	49	85	6	5	2	-	9+	10	2400	0	•	cm	cm	cm	
	S. Farnborough	1013.8	-24	SW'W	4	c	50	85	5	5	7	-	Tr	10	2300	1016.6	-8	SW'S	5	c	50	85	7	5	-	-	10	10	1700	1	•	c	cm	cm	
	Boscombe Down	1013.4	-14	S	3	c	48	85	7	5	7	-	4-G	10	2000	1016.1	-10	SW	5	c	49	87	6	6	-	-	10	10	900	1	•	ccm	cm	cm	
	Thorney Island	1020.0	-18	SW	3	c	52	75	7	5	2	-	9	10	2500	1017.4	-14	SW'S	5	c	51	85	6	5	2	-	7-8	10	3200	1	•	ccm	cm	cm	
	Lymington	1020.8	-14	WSW	2	c	48	82	7	5	2	-	9+	10	1500	1015.6	-4	SSW	3	c	49	85	6	5	-	-	10	10	1900	1	•	ccm	cm	cm	
	Manston	1020.0	-6	WSW	3	c	48	85	6	5	7	-	1	10	5000	1018.1	+2	SW	4	c	49	85	6	5	7	-	9	10	3600	1	•	ccm	cm	cm	
2	Shoeburyness ...	1013.3	-14	SW'S	2	c	48	85	6	5	-	-	0	10	-	1017.5	-6	SW	4	c	49	85	6	5	2	-	4-G	10	2500	1	•	ccm	cm	cm	
	Felixstowe	1013.7	-10	SW	3	c	46	85	5	5	-	-	0	10	-	1016.8	-16	SW'S	4	c	48	85	6	5	-	-	10	10	3500	1	•	cm	cm	cm	
	Gorleston	1017.6	-2	SSW	3	c	48	75	6	5	-	-	10	10	2500	1015.9	-12	SW	4	c	46	85	6	5	-	-	9+	10	1500	0	•	cm	cm	cm	
	Mildenhall	1017.6	-10	SW'S	3	c	46	85	6	5	-	-	0	10	-	1014.3	-14	SSW	4	c	48	85	6	5	2	-	7-8	10	3000	1	•	ccm	cm	cm	
	Cranwell	1015.2	-10	SSW	4	c	46	85	6	5	-	-	10	10	5000	1011.0	-22	SW	5	c	48	85	6	5	7	-	2-3	10	5700	1	•	cm	cm	cm	
3	Birmingham	1015.2	-16	SSW	3	c	46	85	6	5	7	-	9	10	2500	1011.2	-16	SSW	4	c	47	85	6	6	2	-	9	10	800	1	•	c	cm	cm	
	Upper Heyford	1017.6	-22	SW'S	3	c	46	85	7	5	7	-	2-3	10	6000	1014.2	-20	SSW	4	c	48	92	6	5	-	-	10	10	700	1	•	ccm	cm	cm	
4	Ross-on-Wye ...	1016.0	-20	SSW	2	c	49	75	7	5	2	-	9	10	2500	1012.2	-2	S	4	c	49	85	7	6	-	-	10	10	1500	1	•	c	cm	cm	
5	Hartland Point	1014.8	-28	SW	4	c	51	75	7	5	2	-	7-8	10	1500	1003.5	-20	SW	6	c	52	85	6	5	2	-	7-8	10	1500	1	•	c	cm	cm	
	Bristol ...	1017.5	-28	SW	4	c	50	75	7	5	2	-	9	10	3000	1013.4	-18	WSW	4	c	50	85	6	5	-	-	10	10	1500	1	•	c	cm	cm	
	Portland Bill	1020.5	-8	SW	5	c	52	82	7	5	-	-	10	10	2500	1016.2	-16	SW	5	c	52	92	7	5	-	-	10	10	2500	1	•	c	cm	cm	
	Plymouth	1013.1	-20	SW	5	c	52	85	7	5	-	-	10	10	1800	1014.3	-24	SW	6	c	52	97	5	5	-	-	10	10	1000	1	•	c	cm	cm	
	The Lizard	1017.6	-20	SW'W	6	c	52	85	7	5	2	-	7-8	10	1500	1012.5	-20	SW'S	7	c	52	97	6	5	-	-	10	10	1000	1	•	c	cm	cm	
	Soilly (St. Mary's)	1015.5	-30	SW	6	c	52	85	7	5	7	-	7-8	10	1200	1011.2	-16	SW'W	6	c	53	97	5	5	2	-	7-8	10	800	1	•	c	cm	cm	
	Guernsey	1013.7	-30	SW'S	7	c	51	82	7	6	2	-	4-6	10	2000	1007.8	-24	SSW	7	c	52	97	5	5	2	-	7-8	10	1500	1	•	c	cm	cm	
6	Pembroke	1003.7	-34	S'W	6	c	50	82	7	6	2	-	7-8	10	1500	1003.8	-36	S	7	c	50	87	5	5	-	-	10	10	400	1	•	c	cm	cm	
7	Holyhead (Valley)	1011.7	-30	SW	4	c	52	65	7	5	7	-	7-8	10	1200	1007.9	-24	S	4	c	52	85	6	5	2	-	7-8	10	3800	1	•	c	cm	cm	
8	Chester (Sealand)	1013.5	-18	S	4	c	47	97	6	5	7	-	9	10	3000	1008.5	-30	SSW	5	c	48	85	6	5	-	-	10	10	3000	1	•	c	cm	cm	
	Manchester	1013.5	-18	S	4	c	47	97	6	5	7	-	9	10	3000	1008.5	-30	SSW	5	c	48	85	6	5	-	-	10	10	3000	1	•	c	cm	cm	
10	Spurn Head	1014.1	-4	SSW	3	c	46	85	6	5	-	-	10	10	1500	1010.9	-16	SE	4	c	45	92	6	3	6	-	4-6	7-8	4000	0	•	c	cm	cm	
	Catterick	1011.7	-6	SW'S	3	c	47	75	6	5	7	-	2-3	10	2000	1006.9	-28	SSW	4	c	47	85	4	5	7	-	9	10	3200	1	•	c	cm	cm	
	Tynemouth	1009.9	-6	W	6	c	50	75	5	5	-	-	9+	10	1800	1005.5	-30	SSW	6	c	49	85	6	5	-	-	9+	10	1500	1	•	c	cm	cm	
11	St. Abbs Head	1006.1	-4	SW	5	c	47	85	8	5	2	-	7-8	10	2500	1000.4	-36	SW	5	c	46	97	7	5	2	-	9	10	1500	1	•	c	cm	cm	
	Leuchars	1005.2	-6	WSW	4	c	48	85	7	5	2	-	7-8	10	1200	998.9	-42	S	3	c	47	97	5	5	-	-	10	10	900	1	•	c	cm	cm	
12	Renfrew (Abbots I.)	1005.1	-22	SSW	4	c	49	75	6	5	2	-	9	10	1500	997.4	-50	SSW	5	c	51	85	5	5	-	-	10	10	1900	1	•	c	cm	cm	
	Eska Dalemuir	1007.1	-24	S'W	5	c	45	85	8	5	-	-	10	10	1500	1001.0	-30	SSW	7	c	46	97	4	5	-	-	10	10	1150	1	•	c	cm	cm	
	Point of Ayre	1008.2	-26	SW'W	5	c	51	75	8	8	2	-	9	10	2000	1000.9	-28	SW'W	6	c	52	85	7	6	2	-	4-6	10	800	1	•	c	cm	cm	
13A	Tiree	999.4	-40	SSW	5	dr	49	97	7	5	-	-	10	10	1500	989.8	-30	SSW	6	c	49	97	7	5	2	-	10	10	1500	1	•	c	cm	cm	
13B	Stornoway	996.4	-30	SSW	7	c	50	92	7	6	4	5	4-6	10	500	986.3	-50	S	8	c	50	97	6	5	-	-	10	10	1000	1	•	c	cm	cm	
15	Dalwhinnie	1003.8	-8	SW	4	c	44	92	7	8	3	-	7-8	10	1500	997.1	-52	SSW	3	c	43	92	6	5	2	-	9	10	1500	1	•	c	cm	cm	
	Aberdeen	1003.2	-6	SW	2	c	49	75	6	5	7	-	1	10	2100	998.7	-12	SSW	4	c	48	85	6	5	7	-	7-8	10	1200	1	•	c	cm	cm	
	Wick	1000.0	-10	SW'S	3	c	43	85	9	5	7	-	4-6	10	4000	994.4	-48	S	3	c	48	85	7	5	2	-	7-8	10	1500	1	•	c	cm	cm	
16	Sumburgh	999.3	+10	W	3	c	48	75	7	5	7	-	0	10	2000	996.6	-22	SW'S	3	c	47	97	6	5	-	-	10	10	1000	1	•	c	cm	cm	
	Blacksod Point...	996.2	-48	S	7	RR	51	97	6	6	-	-	10	10	800	994.2	-46	SW	7	c	53	75	7	2	6	-	4-6	7-8	1500	2	•	c	cm	cm	
18	Malin Head	993.3	-50	S	4	c	49	85	7	5	-	-	9	10	1500	992.1	-30	SSW	6	c	51	85													

7h. Sunday 14th December 1941

7h. Sunday 14th December 1941

LOW

HIGH

Bar

Rising

Slowly

Rapidly



Scale 1:10,000,000

Statute Miles.

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—

	= 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 low 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 11.45, 11.12.41 in districts 7, 8, 12, 13^A, 13^B, 17, 18.
 " " " 08.30, 13.12.41 " " 5 (part of) 6, 13, 20.
 " " " 14.30, 13.12.41 " " 5 (" ") 10, 11, 15, 16.

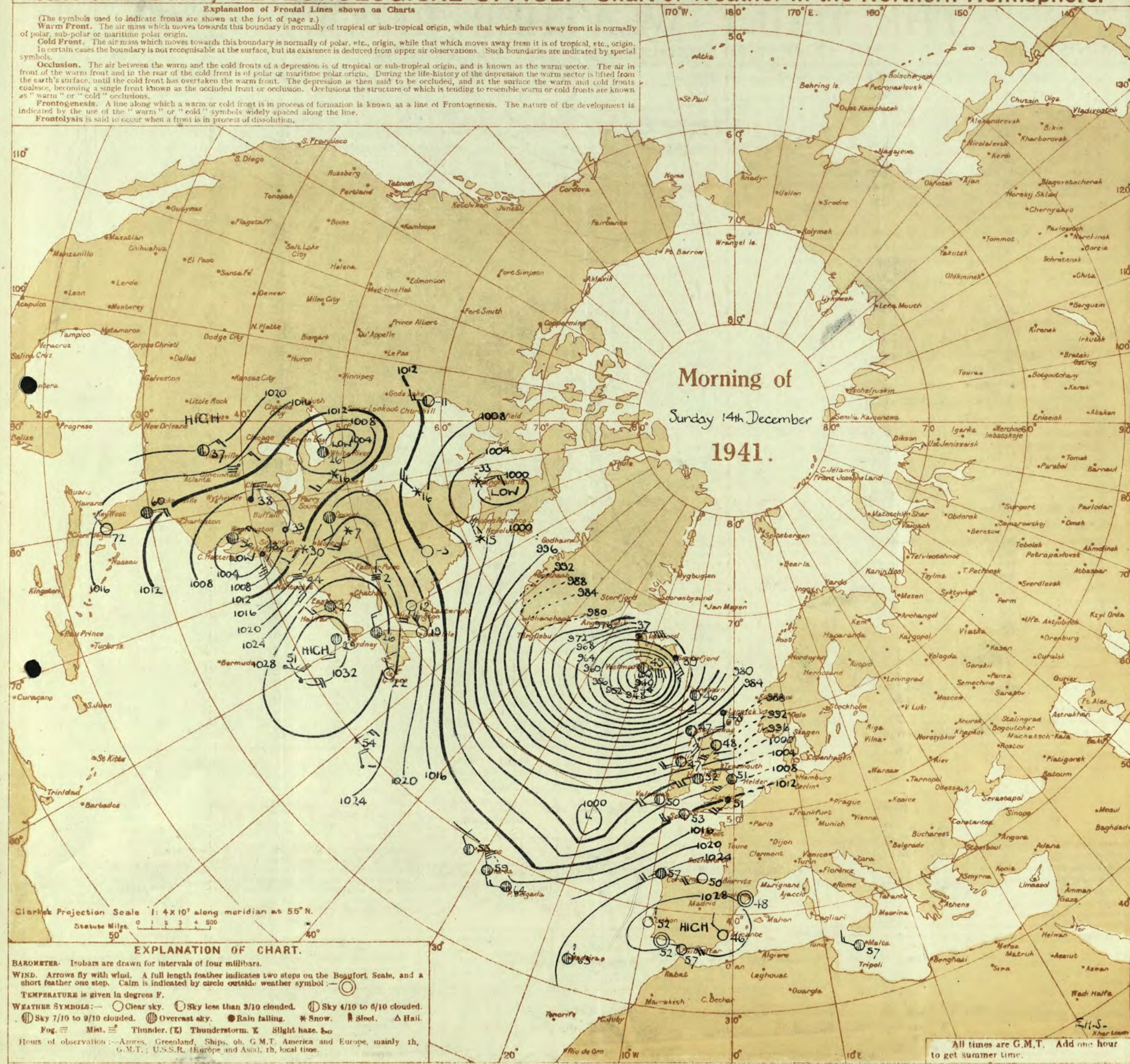
10.30 G.M.T.

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.
 In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday, 14th December, 1941.
No. 29242.

OBSERVATIONS at 1 hr. G.M.T. 14th December														OBSERVATIONS at 7 hr. G.M.T. 14th 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. (3) (4)		Weather. (6)	Temp. °F. (7)	Humid. % (8)	Cloud. (9) (10) (11) (12) (13)					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind. (17) (18)		Weather. (19)	Temp. °F. (21)	Humid. % (22)	Cloud. (23) (24) (25) (26) (27)					State of Ground. (29)	Sea. (30)	TEMPERATURE. (31) (32) (33) (34) (35)					SON-SHINE (36)			
1	London (Kew)	18	1012.6	-16	SSW	5	id	51	97	6	5	2	7-8	10	1100	1012.8	+8	SW'S	3	20	51	92	6	5	2	4-6	10	2500	1	4	50	49	48	Tr	0.2	0.0	
	Croydon	217	1012.6	-16	SSW	5	id	51	97	6	5	2	7-8	10	1100	1013.0	+6	SSW	3	20	52	92	7	5	2	4-6	10	2500	1	4	50	48	45	Tr	0.6	0.0	
	S. Farnborough	226	1011.3	-16	SW	4	id	52	97	6	5	1	7-8	10	1000	1012.9	+6	SW'S	3	20	52	97	6	5	7	2-3	9	2000	1	4	50	48	45	Tr			

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
BRITISH SECTION
Monday 15th December 1941
No. 29248

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

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

PAST 24 HOURS.

[illegible]

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS

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

b, blue sky (not more than a quarter covered with cloud).
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.
p, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KK, 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.

An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky. "9+" signifies an overcast sky with a few small openings.

† Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

CLOUD.

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

Cloud form abbreviations:--

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

COLUMN 29 — STATE OF GROUND

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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 Ca increasing: still below 45° altitude: often in polar bands.
- 6 Ci or Ca increasing and reaching above 45° altitude: often in polar bands.
- 7 Veil of Ca covering whole sky.
- 8 Ca not increasing and not covering whole sky.
- 9 Ca predominating, and a little cirrus.

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

atus,-Cs: Altocumulus,-Ac: Altostratus,-As
ostratus,-Ns: Cumulus,-Cu: Cumulonimbus,-Cb

STATE OF GROUND.

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

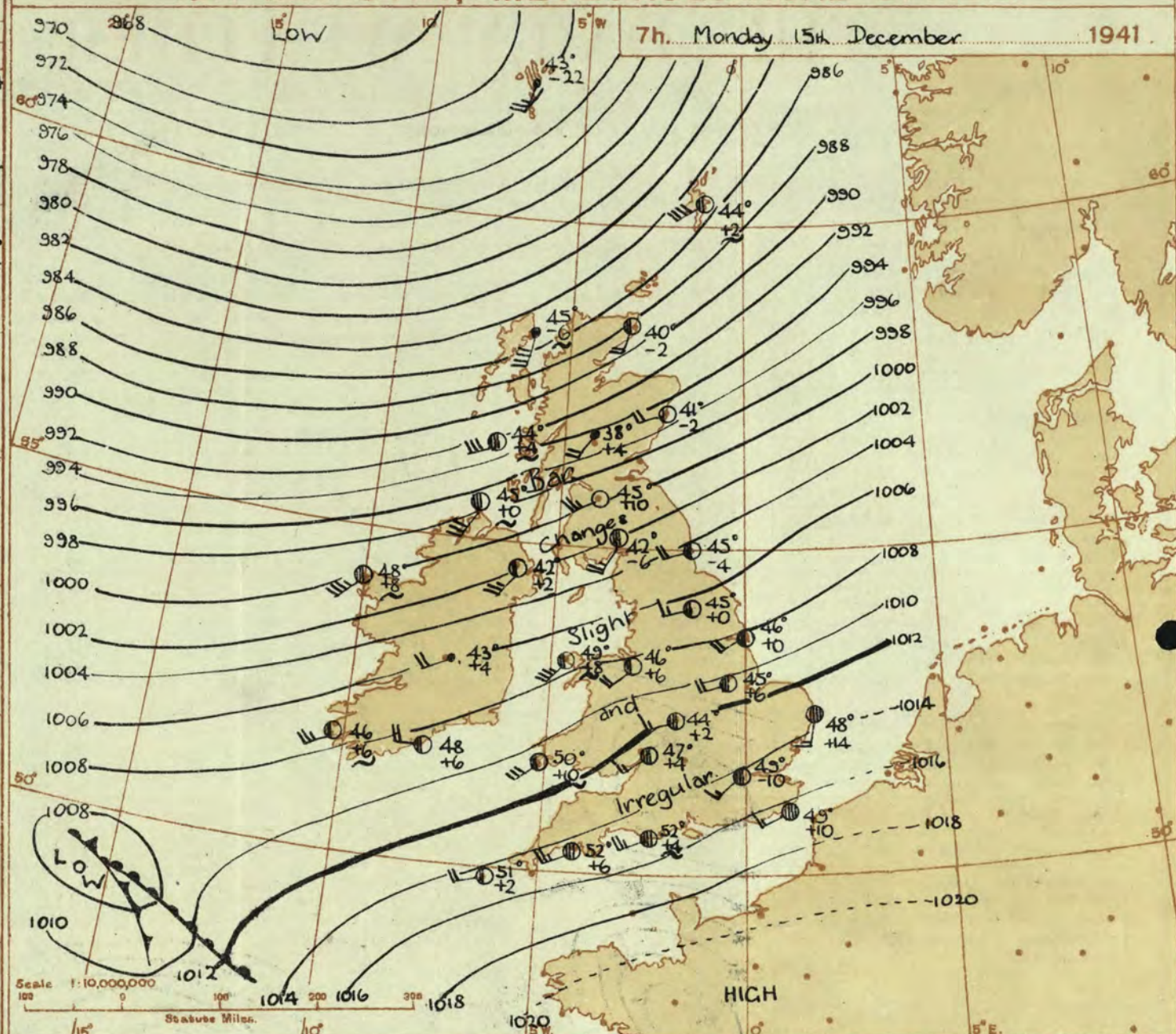
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 14th December 1941							01h. G.M.T. 15th December 1941							07h. G.M.T. 15th December 1941						
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	03876	12428	62	22548	52568	80	81644	52663	80	02854	51684								
115	52	02844	16488	52	88844	24486														
203	6	64838	16528																	
206	51	02863	20427	80	25854	22264	90	25854	57684	30	81854	55784								
210	57	02861	12328	80	22858	20368	80	81845	53588	30	00853	51783								
220				80	27854	24584				80	88446	25716								
230	62	04640	17608	20	00743	20483	30	25745	20695	30	27746	52696								
245	57	02774	18418	50	6767	24267	50	25743	20583	30	81744	53684								
260	57	02860	40517	80	25644	20364	20	07751	51781	80	81764	51714								
278	5	64638	15408	50	00841	23861	00	07890	21500	50	00801	21501								
279	12	61664	18408				50	02865	52615	50	01864	52714								
285																				
288	62	61643	15328	60	55548	19468	00	05690	20360	40	25662	17382								
295	62	62636	20408	30	00752	22382	30	00851	53401	40	00851	18481								
301	62	62548	14408	60	62558	56568	53	01753	56764	50	00761	55711								
321	57	22653	14408	50	21655	22468	50	05656	23316	57	05652	24225								
299	50	01548	20228	50	21548	22468	50	01752	22462	50	01752	24402								
292	62	61530	12308	52	21546	54668	50	00763	19464	57	61653	51418								
310										--	01634	20414								
314	62	22654	16268	62	21535	51558	57	05654	20326	57	05653	20314								
333	52	62507	15508	50	02748	55858	51	02853	53416	80	81845	53685								
334										--	25644	24387								
340	50	22648	16408	80	81845	55568	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	50	05608	20528	07	05690	55513								
390	62	67326	18208	62	53668	06056	50	05578	23468	57	05566	23328								
382	62	63637	15408	52	22754	54568	02	02690	22328	07	02790	22325								
438										02	62628	20568								
430	52	51626	50408	62	62527	53768														
409	52	52626	52808	50	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_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. 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
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.

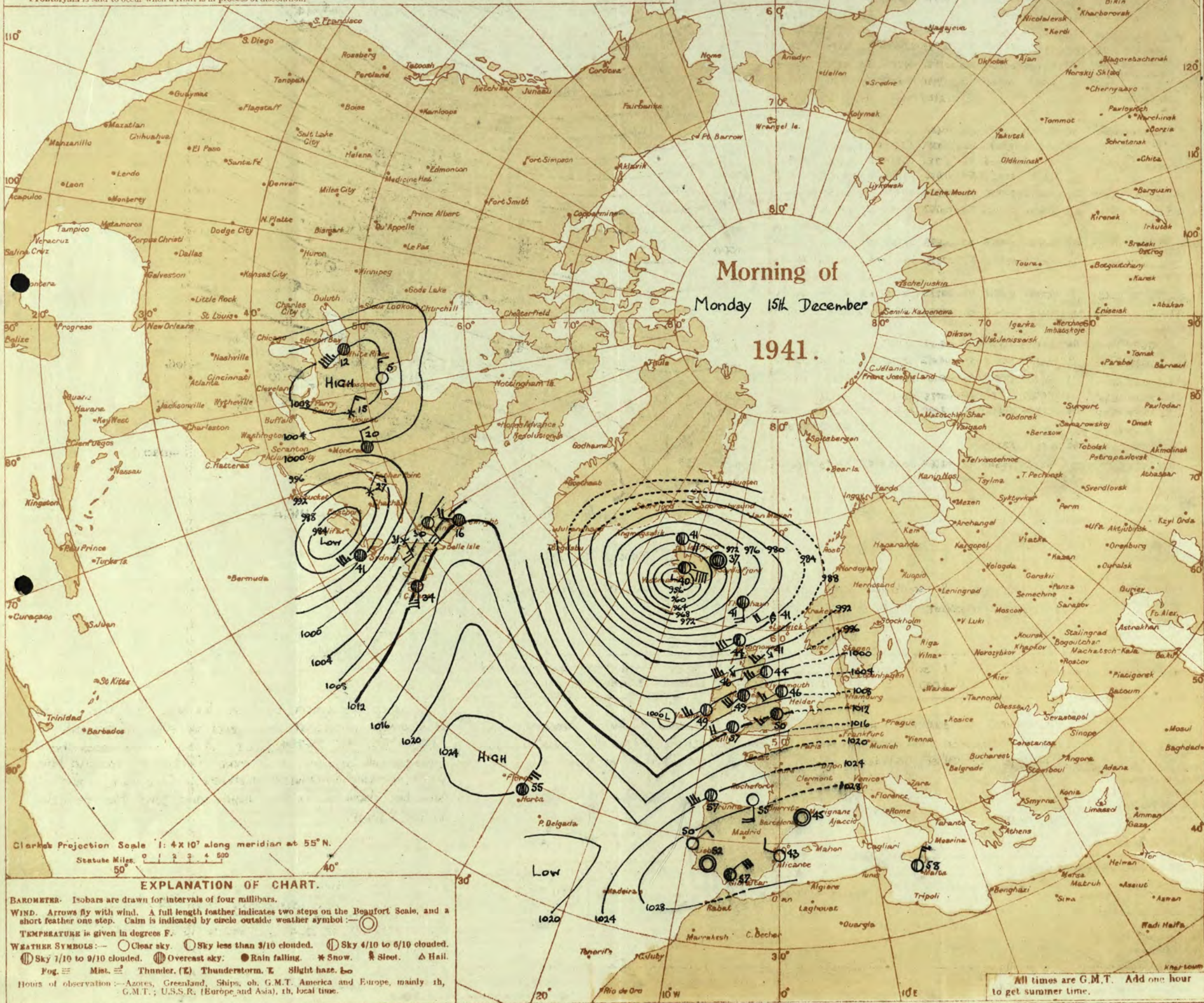
Forecasts issued at 1030 G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.
 In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 5th December 1941

No. 29 243

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

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

PAST 24 HOURS

OBSERVATIONS at 7 M. G.M.T. on 22nd August 1951.																																				FAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																														
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. in mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %.	Visibility.	Cloud.					Barom. at M.S.L. in mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %.	Visibility.	Cloud.					State of Ground.	Sen. 0-9.	TEMPERATURE.			RAINFALL.		Sun- shine 14 Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																														
					Direc.	Force.					Low.	Med.	High.	Form.	Amount.			Height of Base (feet).	Direc.					Force.	Low.	Med.	High.	Form.			Amount.	Height of Base (feet).	Min. on Grass °F.	Min. Night 15h-7h °F.	Day 7h-18h mm.		Night 18h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																													
																																						0-12.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0-10.	0

LONDON OBSERVATIONS

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

NEW...	...	...	...	...	...
CROYDON ...	...	...	...	...	...
GREENWICH (Royal Observatory)...	...	...	...	...	...
(ITY (Bunhill Row) ...	...	...	...	...	...
WESTMINSTER (St. James' Park) ...	...	...	...	...	...
ROGENTS PK. (Botanic Gardens)...	...	...	...	...	...
CAMDEN SQUARE ...	...	...	...	...	...
KENSINGTON ...	...	...	...	...	...
HAMPSTEAD OBSERVATORY ...	...	...	...	...	...

FOREIGN OBSERVATIONS

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

Weather	Temperature.
---------	--------------

Afternoon.	Night.	Day Max.	Night Min.	M on Gr 2
hrs. ended 9h.		°F.	°F.	
13.75	13.75	56	49	4
14.00	14.00	56	47	4
14.25	14.25	57	48	4
14.50	14.50	58	48	4
15.00	15.00	57	49	4
15.25	15.25	57	49	4
15.50	15.50	57	45	4

Temperature.	Rainfall.
--------------	-----------

Day x. .	Night Min. °F.	Min. on Grass °F.	Day. mm.	Night. mm.
45	47	10	0.2	
47	44	13	1	
48	44	3	1	
48	46	9	1	
49	44	12	1	
49	44	11	1	
45	43	10	1	

Sun-	Humidity.	
------	-----------	--

shime. to Sunset. hra.	at Cambridge.		Visibility.
	15h. G.M.T. %	9h. G.M.T. %	
	Yesterday.	To-day.	
0.0	.	.	0
0.0	.	.	7
0.0	34	75	6
	.	.	.
	75	84	.
	.	.	.
*	.	80	.
	35	87	.
	.	83	.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Atmospheric Pollution.			
Milligrams of Solid Impurity per cubic metre.			
24 hrs. ended 7h. G.M.T. 15.			
SOUTH KENSINGTON.			
Max.	Time.	Min.	Time.
NEW OBSERVATORY.			
Max.	Time.	Min.	Time.
0.1	8-14h.	0.1	res.
14th of period			

EXPLANATION OF FIGURES, LETTERS, &c.

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

COLUMNS 34, 35

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

COLUMNS 8, 22—Code for surface visibility.

Objects not visible

0	Dense fog	55 yards.
1	Thick fog	220 "
2	Fog	550 "
3	Moderate fog	1,100 "
4	Mist or haze	1 $\frac{1}{4}$ miles.
5	Poor visibility	2 $\frac{1}{2}$ "
6	Moderate "	6 $\frac{1}{2}$ "
7	Good "	12 $\frac{1}{2}$ "
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

‡ Pressure at 1,000 dynamic metres level.

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

‡ Sea disturbance reported from Dungeness

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

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

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

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

AIR
MINISTRY.THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET
BRITISH SECTION
Tuesday 16th December 1941.
No. 29244

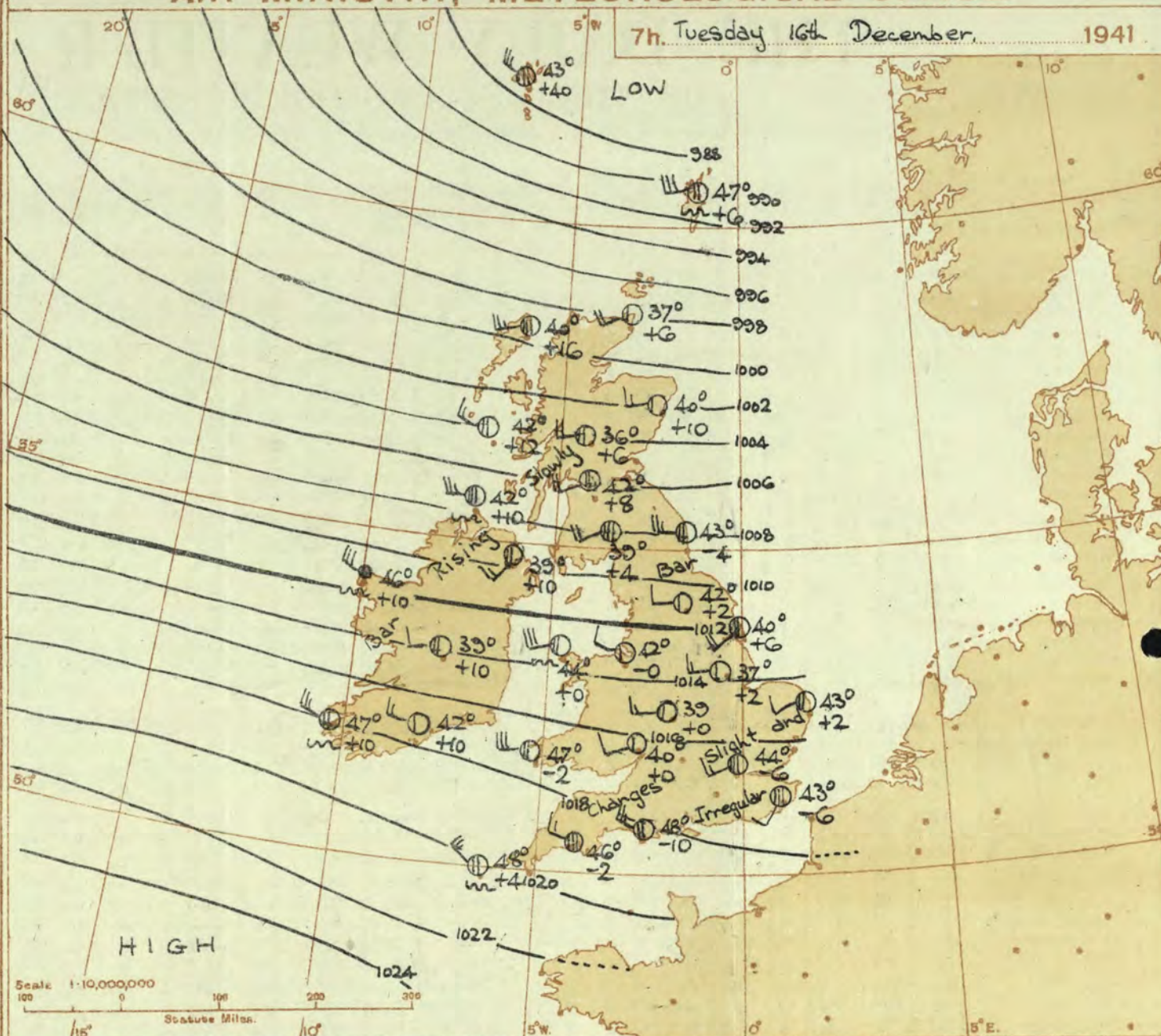
OBSERVATIONS at 13h. G.M.T. 15th December														OBSERVATIONS at 18h. G.M.T. 15th December														PAST 24 HOURS.											
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	°F. Humid. (7)	°F. Visibility. (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	°F. Humid. (21)	°F. Visibility. (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 (10) (11)	Height of Base (feet) (14)	Dir.			Force. 0-12 (18)	Form.				Amount. Low Total 0-10 0-10 (23) (24)	Height of Base (feet) (28)	7h.—13h. 15th (37)				13h.—18h. 15th (38)				18h.—19h. 15th (39)				19h.—7h. 16th (40)					
																						Low.	Med.			High	Low	Total	0-10	0-10	Low	Med.	High	Low	Total	0-10	0-10	Low	Med.
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lymington Manston	1016.3 1016.4 1016.6 1016.3 1017.4 1018.3 1017.1	-4 -2 -6 -6 -2 -2 0	SWW SW SWW SW WSW SW WSW	4 3 4 4 4 4 4	c bc bc bc c/pr c c	52 53 53 50 54 51 52	75 75 75 75 85 92 75	7 7 8 7 8 8 8	2 2 3 2 3 2 1	4 4 3 3 3 4 4	4-6 2-3 4-6 2-3 4-6 7-8 7-8	7-8 4-6 7-8 4-6 7-8 7-8 7-8	1500 1500 2000 3000 1500 1200 2000	1016.6 1016.5 1016.8 1016.8 1018.0 1018.7 1017.5	+6 +2 +2 +6 +6 +4 +2	SW'S SW'S SWW SWW SW WSW SWW	3 4 5 4 4 4 3	bc bc bc pr bc bc bc	48 48 48 48 51 48 48	85 85 85 85 85 92 92	8 6 7 8 7 7 6	7 - - - - 4 5	- -															

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.
IIIC, C _W , VV, N _h , DDFWN	C _W , C _W , VV, N _h , DDFWN	C _W , C _W , VV, N _h , DDFWN	C _W , C _W , VV, N _h , DDFWN
10007 25844 52685	30 02745 56885	3- 27844 22684	
115			
2038- 22835 20825	8- 81937 20787	50 01344 22584	
2062- 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
2734 00851 21402		50 00842 22402	54 00852 22502
2780 02854 56625	20 00853 53513	00 00830 53510	50 00853 53413
28523 25854 24584		20 25745 26585	
28806 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 19285
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
27023 25853 53584	20 01753 22424	01 01730 20403	07 00780 20303
39080 05645 55426	50 08452 21415	00 05530 22328	07 05530 22316
38286 01854 20414	46 02854 22428	01 05630 22327	03 02780 22313
4358- 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, N_h - Height and amount of low cloud—See M.O. 252.
N - Total amount of cloud—See M.O. 252.
C_W - Form of low and medium cloud—See page 1.
V - Visibility. F - Force of wind—See page 1.
DD - Direction of wind (E, 10 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



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.
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	Moderate or fresh west wind, backing south later. Bright intervals and showers at first. Rain tomorrow morning in the west. Mild.

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—
 Warm Front on the Surface
 Warm Front above the ground
 Cold Front on the surface
 Cold Front above the ground
 Occluded Front (or Occlusion)
 Warm Occlusion
 Cold Occlusion
 Lines of Frontogenesis
 Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)
 NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

GENERAL INFERENCE.

A 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.

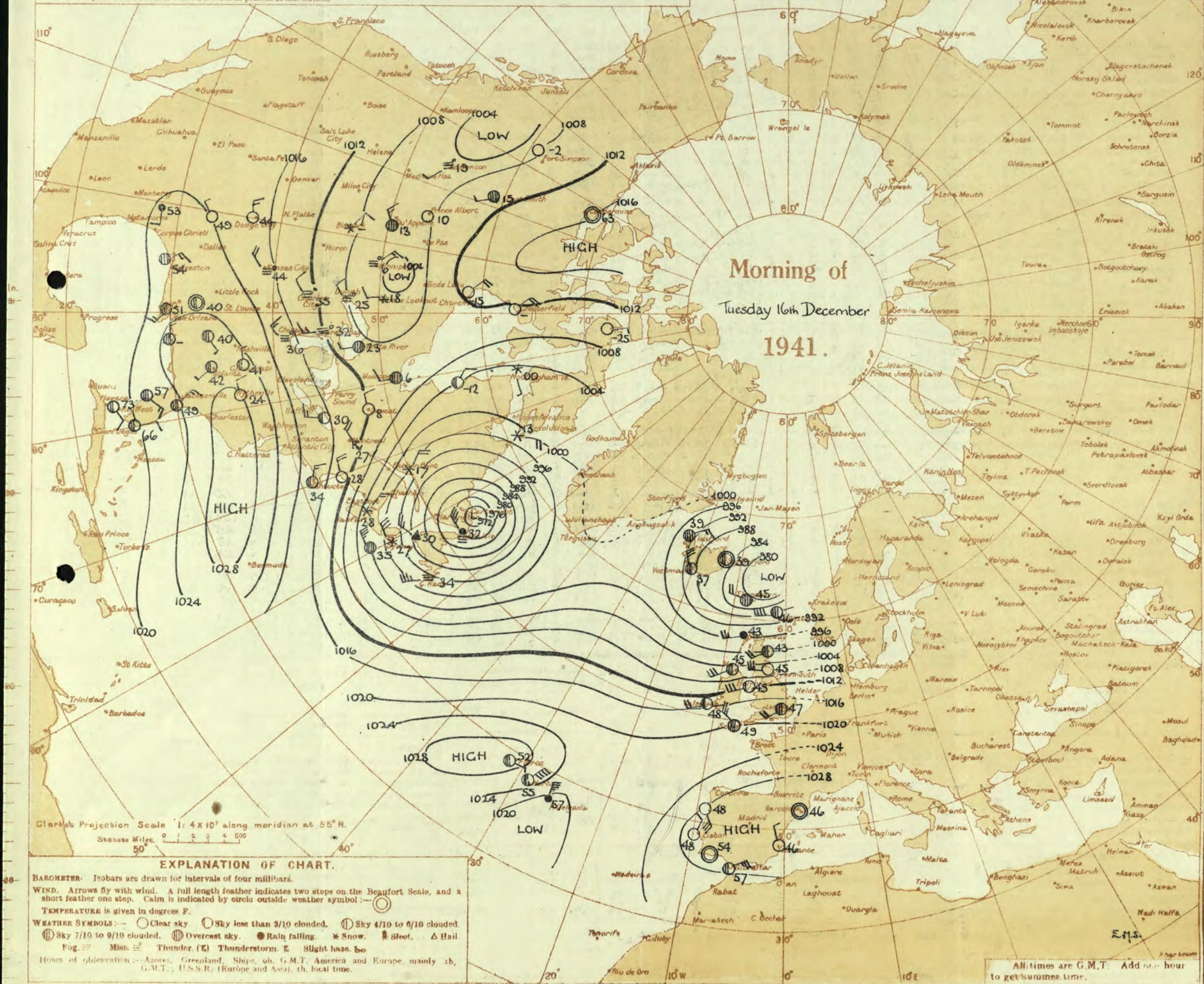
N.K. JOHNSON, D.Sc., A.R.C.S.
Director.

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.



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 16th December 1941

No. 29244

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. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at 7 hr. M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUN-SHINE Hrs. (38)
					Direc. (3)	Force. (4)					Low. (9)	Med. (10)	High. (11)	Total (12)	Height of Base. (feet) (14)			Direc. (17)	Force. (18)					Low. (23)	Med. (24)	High. (25)	Total (26)	Height of Base. (feet) (28)			Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)	Night 18h-7h mm. (35)	
1	London (Kew) ... 217	1017.5	0	SW	4	b	46	75	7	4	7	0	10	1016.6	-6	SSW	2	0	45	85	6	5	0	4	0	2500	1	5	53	44	36	Tr	1	3.3		
	Croydon ... 226	1018.1	+6	SW	3	b	45	85	7	3	6	0	4	1016.7	-2	SW	2	0	44	85	7	4	0	0	4	3000	1	5	53	41	33	0.4	1	3.5		
	S. Farnborough ... 417	1018.1	+2	SW	3	b	44	85	8	1	8	0	3	1017.2	-10	W	0	43	82	7	6	3	0	0	1	3000	1	5	54	43	32	Tr	0.3	3.0		
	Boscombe Down ... 10	1018.7	+4	SW	3	b	46	85	6	5	1	10	10	1018.3	-6	SSW	2	0	43	82	7	7	0	0	1	3000	1	5	52	42	33	0.2	1	0.8		
	Thorney Island ... 346	1018.1	+2	WSW	3	b	46	85	6	7	1	0	9	1017.1	-2	WSW	2	0	43	82	6	5	1	0	10	3000	1	5	54	42	38	Tr	1	2.2		
2	Shoeburyness ... 11	1017.6	+4	SSW	2	b	47	85	6	1	1	0	0	1016.7	-4	SW	3	0	44	85	6	5	1	0	7	4000	1	5	54	44	37	Tr	1	3.0		
	Felixstowe ... 15	1016.1	+4	SW	4	b	46	85	6	1	1	0	0	1015.8	-2	WSW	3	0	42	85	6	1	8	0	0	1	3000	1	5	52	42	38	Tr	1	3.2	
	Gorleston ... 5	1015.0	+4	WSW	3	b	46	85	6	1	1	0	2	1015.4	+2	SW	2	0	43	85	6	1	7	0	2	3	1	3000	1	5	51	42	41	Tr	1	3.0
	Mildenhall ... 19	1014.9	+2	SW	4	b	44	85	7	1	1	0	2	1014.9	0	SW	3	0	41	82	7	1	6	0	4	1	3000	1	5	53	40	33	Tr	1	4.1	
	Cranwell ... 240	1013.1	+4	WSW	5	b	42	85	6	5	1	1	3	1013.3	+2	WSW	3	0	37	82	6	5	1	1	3	1	3000	1	5	50	36	32	Tr	1	5.2	
3	Birmingham ... 535	1016.3	+14	SW	4	b	42	82	7	4	0	7	8	1014.5	0	WSW	3	0	39	85	7	5	1	1	2	1	2500	1	5	49	39	31	Tr	1	4.5	
4	Upper Heyford ... 408	1016.3	+14	SW	4	b	42	82	7	4	0	7	8	1016.8	-2	SW	3	0	38	82	7	5	4	1	2	3	3500	1	5	51	46	33	Tr	1	4.5	
	Ross-on-Wye ... 223	1015.6	0	SW	2	b	40	85	8	5	1	1	1	1015.6	0	SW	2	0	40	85	8	5	1	1	1	3500	1	5	49	40	34	Tr	1	1.4		
5	Hartland Point ... 299	1017.0	+6	WNW	4	b	48	75	7	3	1	4	6	1016.3	0	WNW	4	0	47	75	8	3	1	1	2	2	2500	1	5	52	45	41	Tr	1	0.5	
	Bristol ... 209	1017.5	+6	SW	6	b	45	75	7	5	1	2	3	1016.6	-2	WSW	3	0	42	85	7	5	1	1	3	1000	1	5	53	40	36	Tr	1	4.8		
	Portland Bill ... 32	1017.5	+6	SW	6	b	45	75	7	5	1	2	3	1017.3	-10	WNW	5	0	42	85	7	5	1	1	3	1000	1	5	52	47	38	Tr	1	4.8		
	Plymouth ... 82	1018.4	0	SW	5	b	49	75	7	8	2	1	4	1018.8	-2	WNW	3	0	46	85	7	2	1	1	3	2500	1	5	54	45	38	Tr	1	1.0		
	The Lizard ... 240	1018.8	-4	W	6	b	49	75	7	8	1	7	8	1018.7	-4	WNW	5	0	48	75	7	8	1	1	3	1500	1	5	53	44	38	Tr	1	3.2		
	Scilly (St. Mary's) ... 163	1018.2	-2	WNW	5	b	49	75	8	1	1	7	8	1018.3	+4	WNW	5	0	48	75	8	6	1	1	3	1500	1	5	53	47	38	Tr	1	4.8		
	Guernsey ... 175	1018.2	-2	WNW	5	b	49	75	8	1	1	7	8	1018.3	+4	WNW	5	0	48	75	8	6	1	1	3	1500	1	5	53	47	38	Tr	1	4.8		
6	Pembroke ... 142	1016.4	+10	WSW	6	b	46	82	7	8	1	2	3	1015.4	-2	W	6	0	47	82	7	8	1	1	3	2500	1	5	52	42	38	Tr	1	2.7		
7	Holyhead (Valley) ... 26	1013.0	+10	WSW	6	b	45	85	8	5	1	1	1	1012.5	0	WSW	6	0	44	85	8	2	1	1	3	2500	1	5	52	44	41	Tr	1	2.7		
	Chester (Sealand) ... 16	1013.0	+6	WSW	2	b	44	75	7	1	1	0	0	1012.6	0	WNW	2	0	42	75	7	1	1	1	3	2500	1	5	52	42	30	Tr	1	2.8		
8	Manchester ... 235	1012.9	+6	SW	3	b	39	82	7	1	1	0	1	1012.7	-4	SW	3	0	37	85	7	1	1	1	3	2500	1	5	49	35	31	Tr	1	2.8		
10	Spurn Head ... 29	1011.6	+8	WSW	5	b	43	85	7	4	1	2	3	1012.3	+6	SW	4	0	40	85	7	5	1	1	3	1500	1	5	50	40	38	Tr	1	5.1		
	Catterick ... 175	1009.7	+10	WSW	3	b	45	75	6	5	1	4	6	1009.8	+2	WS	2	0	42	85	7	5	1	1	3	2500	1	5	49	42	36	Tr	1	2.7		
	Tynemouth ... 108	1007.5	+10	W	6	b	45	75	6	5	1	4	6	1007.8	-4	W	5	0	43	75	7	5	1	1	3	1500	1	5	48	48	38	Tr	1	2.7		
11	St. Abbs Head ... 280	1003.0	+12	SW	5	b	43	82	7	4	1	2	3	1009.8	+2	WS	2	0	42	85	7	5	1	1	3	2500	1	5	46	42	36	Tr	1	2.7		
	Leuchars ... 36	1002.8	+16	WSW	4	b	42	82	8	4	1	2	3	1003.5	+10	WSW	5	0	38	82	8	4	1	1	3	3000	2	5	46	39	33	Tr	1	1.9		
12	Kenfrew (Abbots I.) ... 19	1004.0	+12	SW	3	b	45	85	7	8	1	3	3	1005.7	+8	SW	4	0	42	75	7	8	1	1	3	2500	1	5	47	41	37	Tr	1	2.7		
	Eskdalemuir ... 794	1004.0	+12	SW	3	b	45	85	7	8	1	3	3	1007.3	+4	SW	4	0	39	85	8	5	1	1	3	1500	1	5	44	38	37	Tr	1	2.7		
	Point of Ayre ... 30	1008.9	+6	WNW	6	b	44	85	8	4	1	1	1	1009.2	+2	WNW	5	0	44	85	8	4	1	1	3	2000	0	4	50	42	38	Tr	1	2.1		
13A	Tiree ... 22	1009.6	+6	WNW	4	b	44	82	7	8	1	2	3	1009.8	+12	WNW	3	0	42	75	7	5	1	1	3	2500	0	4	49	41	38	Tr	1	0.0		
13B	Stornoway ... 80	1007.1	+20	WSW	5	b	43	85	7	8	1	7	8	1007.3	+16	WSW	5	0	40	82	7	8	1	1	3	2000	2	3	48	38	38	Tr	1	0.0		
15	Dalwhinnie ... 1176	1007.1	+20	WSW	5	b	43	85	7	8	1	7	8	1007.3	+16	WSW	5	0	40	82	7	8	1	1	3	2000	2	3	48	38	38	Tr	1	0.0		
	Aberdeen ... 79	1007.1	+20	WSW	5	b	43	85	7	8	1	7	8	1007.3	+16	WSW	5	0	40	82	7	8	1	1	3	2000	2	3	48	38	38	Tr	1	0.0		
	Wick ... 119	1006.2	+22	SW	4	b	40	85	8	4	1	1	1	1001.8	+10	WSW	3	0	37	85	8	5	1	1	3	2000	1	5	45	38	34	Tr	1	2.4		
16	Sumburgh ... 30	1005.5	+30	W	8	b	46	85	6	9	1	3	3	1001.9	+6	SW	4	0	47	65	8	8	1	1	3	1500	1	5	48	43	40	Tr	1	0.0		
17	Blackod Point ... 18	1009.2	+12	WS	5	b	46	85	7	3	1	4	6	1011.3	+10	WN	6	0	46	85	7	3	1	1	3	1500	1	5	50	42	38	Tr	1	2.0		
18	Malin Head ... 84	1004.6	+8	SW	6	b	45	85	7	8	1	7	8	1006.4	+10	W	5	0	42	85	7	3	1	1	3	1500	1	5	48	40	38	Tr	1	1.7		
	Aldergrove ... 268	1008.8	+6	SW	3	b	39	82	8	2	1	1	1	1010.2	+10	SW	3	0	39	82	8	5	1	1	3	1100	1	5	47	37	38	Tr	1	4.2		
19	Birr Castle ... 173	1015.6	+6	SW	4	b	48	75	8	3	1	4	6	1018.5	+10	WSW	2	0	47	65	8	3	1	1	3	1500	1	5	47	37	34	Tr	1	2.0		
20	Valentia Obay. ... 70	1015.6	+6	SW	4	b	48	75	8	3	1	4	6	1017.7	+10	WSW	5	0	47	65	8	3	1	1	3	1500	1	5	49	44	34	Tr	1	2.0		
	Roches Point ... 22	1016.2	+6	W	4	b	43	85	8	5	1	1	1	1017.3	+10	WN	3	0	42	85	8	5	1	1	3	1500	1	5	50	44	34	Tr	1	2.0		

[illegible]³ Pressure at 1,000 dynamic metres level.

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

‡ Sea disturbance reported from Dungeness

TERMS OF SUBSCRIPTION. { single Copies, 1d. each: by post 1½d.
2/6 per month: 8/6 per quarter: 25/- per year.

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

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

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. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. m. (8)	Cloud.			Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. m. (22)	Cloud.			Barom. at M.S.L. (29)	Change in 3 hours. (30)	WEATHER.										
				Dir.	Force. 0-12 (4)					Form.	Amount. Low 0-10 Total 0-10 (12) (13)	Height of Base. (feet) (14)			Dir.	Force. 0-12 (18)					Form.	Amount. Low 0-10 Total 0-10 (26) (27)	Height of Base. (feet) (28)			7h.—18h. 16th (37)	13h.—18h. 16th (38)	18h.— 17h. (39)	1h.—7h. 17 (40)							
																														Low.	Med.	High	Low	Med.	High	Low	Med.	High
1	London (Kew)...	1015.7	+8	W'S	3	bc	47	75	7	1	4	-	1	2-3	2500	1016.5	+4	SW'W	2	z	43	85	6	5	-	-	Tr	Tr	2500	1	*	bmbcb	bcbmo	b,c,m,w	c,m,w	
	Croydon ...	1016.3	-8	W'S	3	b	40	65	7	1	4	-	1	2000	1016.5	+4	SW'W	2	z	42	85	6	5	-	-	Tr	Tr	1500	1	*	cbmab	bcbmo	bmgw	bmgw		
	S. Farnborough	1016.6	-6	W	4	bc	47	65	8	1	3	9	2-3	2-3	3000	1017.0	+2	W'S	3	b	41	85	7	-	4	-	0	Tr	-	1	*	bebbe	bcbw	b,cw	wmc	
	Boscombe Down	1017.4	-4	W'N	3	bc	46	75	8	3	3	-	2-3	2-3	2500	1017.5	-2	W'S	3	bc	38	92	7	3	-	-	2-3	2-3	2000	1	*	bc	bcb	bcb	bcm	
	Thorney Island	1017.0	-2	W'N	3	bc	48	75	8	1	-	-	2-3	2-3	2500	1017.5	+4	W'N	4	b	43	85	7	2	6	-	Tr	Tr	2500	1	*	bebmab	b,c,prb	bblbc	cprbw	
	Lympne ...	1016.8	-14	W'N	4	b	47	75	8	2	-	8	Tr	Tr	3200	1017.4	+6	W'N	3	z	40	85	6	-	4	-	0	Tr	-	1	3	cbcb	bcbmo	b,cbcmw	bcbw	
	Manston ...	1015.5	-14	W'N	3	z	48	75	6	1	4	-	Tr	Tr	3000	1015.9	+8	W'S	3	z	39	85	6	-	-	-	0	0	-	1	*	cbe	bzmo	bcbmw	bcbmw	
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	-	-	-	0	0	-	1	*	cbazo	bzom	bmbdm	bcbcm	
	Felixstowe ...	1014.9	-10	W'S	4	z	47	75	6	-	-	1	0	Tr	-	1015.1	+6	W'S	3	m	42	85	6	-	-	-	0	0	-	1	3	bmo	bmo	bmo	bmgw	
	Gorleston ...	1014.3	-8	W'N	4	b	47	65	7	-	-	9	0	1	-	1015.0	+8	W	2	bc	42	75	6	5	-	-	2-3	2-3	2500	0	2	b	bc	bmgw	bcbzw	
	Mildenhall ...	1014.2	-10	WSW	4	b	47	75	8	1	-	-	Tr	Tr	2500	1014.3	+2	SW'W	3	z	40	85	6	5	-	-	Tr	Tr	2500	0	*	bebmab	bmgw	b,c,m,w	b,c,m,w	
	Cranwell ...	1012.9	-6	W	4	z	44	75	6	-	7	-	0	1	-	1013.1	+6	WSW	3	z	40	85	5	5	-	-	2-3	2-3	3000	1	*	bzo	bcbw	bcm	c,m,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	bepb	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	-	-	4.6	4.6	3500	1	*	bmbb	bbe	bmgw	bprcm	
4	Ross-on-Wye ...	1015.6	-4	W'S	3	bc	47	65	8	8	-	-	2.3	2.3	3500	1016.3	+6	SW	2	bc/pr	41	85	8	-	-	-	4.6	4.6	3000	1	*	bmbb	bcbp	bcbw	bce	
5	Heartland 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	bepb	bcbp	cbcb	cbpr	
	Bristol ...	1016.7	-2	W'N	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	*	cbcbpr	bc	c,e	bcbw	
	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	cbcb	bcbw	bcbw	
	Plymouth ...	1019.5	+2	W	3	pr	47	75	7	3	-	-	9	9	2000	1020.2	+6	W'N	3	z	45	85	6	3	-	3	2.3	4.6	1800	1	5	cprb	cprbcb	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	bc/pr	47	85	8	8	-	-	4.6	4.6	1500	1	5	bepb	bcbp	bprb	cprbcb	
	Scilly (St. Mary's)	1021.4	+6	WNW	5	bc/pr	48	75	8	8	6	-	4.6	4.6	1500	1022.6	+10	NNW	6	bc/pr	48	75	8	8	-	-	4.6	4.6	1500	1	5	bepb	bcbp	bprb	bce	
	Guernsey ...	1021.4	+6	WNW	5	bc/pr	48	75	8	8	6	-	4.6	4.6	1500	1022.6	+10	NNW	6	bc/pr	48	75	8	8	-	-	4.6	4.6	1500	1	5	bepb	bcbp	bprb	bce	
6	Pembroke ...	1017.7	+4	W'N	6	bcg	48	85	8	2	3	-	4.6	4.6	3000	1018.9	+12	NW	6	bcg	47	85	8	2	-	-	2.3	2.3	4000	1	4	bcg	cbcb	bcg	bcbw	
7	Holyhead (Valley)	1013.3	+2	W'N	6	c	46	75	8	8	3	1	4.6	7.8	1600	1015.4	+26	NW'W	5	bc	45	92	8	4	-	-	4.6	4.6	2500	0	5	bcb	bcbp	bcbp	bcb	
	Chester (Sealand)	1013.3	+2	W'S	2	bc	46	65	7	2	-	-	2.3	2.3	1200	1014.1	+6	W'N	4	bc/pr	43	85	7	3	-	-	2.3	2.3	2000	1	*	bcbmo	bcbp	bcbp	bcbp	
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	-	-	9.8	9.8	3000	1	*	bcbmo	bcbp	bcbp	bcbp	
10	Spurn Head ...	1011.0	-4	WSW	4	z	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	bcb	bcb	cir	
	Catterick ...	1009.8	-4	W	3	c	46	75	8	8	4	-	4.6	7.8	2500	1011.7	+8	W'N	2	m	39	85	4	5	-	-	Tr	Tr	2500	1	*	bcb	bcb	bcb	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	bcb	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	b	41	75	7	4	-	-	1	1	2500	0	3	bc	bcb	bc	bc	
	Leuchars ...	1005.3	+6	W	3	b	43	85	8	8	6	-	Tr	1	4000	1006.9	+6	WSW	4	bc	40	85	8	5	-	-	4.6	4.6	4000	1	*	b	b,cbcb	bcbp	bcbp	
12	Renfrew (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	-	-	9.8	9.8	2500	1	*	pr,prbc	bcbp	pr,bcb	bcbm,b	
	Eakdalemuir ...	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	bcbp	bcbp	bcbp	
	Point of Ayre ...	1010.7	+4	WNW	6	c	45	75	8	8	4	-	4.6	7.8	2500	1012.6	+10	WNW	6	b	44	92	8	4	-	-	1	1	2000	0	5	bcb	bcbp	bcbp	bcbp	
13a	Tiree ...	1008.0	+18	NW	4	bc	48	75	8	8	3	-	4.6	4.6	2500	1010.2	+12	NNW	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	*	bcbp	bcbp	bcbp	cprbc	
	Aberdeen ...	1003.9	+10	WSW	2	bc	45	65	7	-	7	-	0	4.6	-	1005.3	+6	W	3	b	42	65	7	-	4	-	0	1	-	1	2	bcb	bcbp	bcbp	bcbp	
	Wick ...	1000.3	+10	WSW	4	pr	42	85	7	9	3	-	7.8	9	1600	1002.5	+8	W'S	4	bc	41	85	8	8	-	-	2.3	2.3	2500	1	*	b,cbp	pr,cbcb	bcbp	bcbp	
16	Sumburgh ...	995.5	+26	WNW	5	c	47	75	8	8	-	2	7.8	7.8	2000	999.5	+26	NW	4	b	46	85	8	8	-	-	1	1	1500	1	6	b,cbp	cprbc	bcbp	bcbp	
17	Blackhead 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	pr	bc	
18	Malin Head ...	1009.9	+18	W	5	c	46	75	8	9	-	-	9	9	1500	1013.3	+22	WNW	6	bc	47	65	7	6	-	-	4.6	4.6	1500	1	6	pr	pr	pr	pr	
	Aldergrove ...	1012.4	+14	SW'W	3	pr	41	85	8	9	6	-	9	9	2000	1014.9	+18	WNW	2	c/pr	42	92	7	8	-	-	9.8	9.8	2000	1	*	bcbp	pr,prbc	pr,prbc	pr,prbc	
19	Birr Castle ...	1016.1	+14	SW	2	bc	44	75	8	5	-	-	4.6	4.6	2500	1019.1	+14	SW	1	bc	40	85	8	-	4	-	0	2.3	-	1	*	bc	bc	*	bc	
20	Valentia Obey. †	1020.9	+14	WNW	5	c	49	65	8	8	-	-	9	9	2500	1024.2	+20	SW	4	pr	48	75	8	8	-	-	7.8	7.8	2500	1	5	pr	pr	pr	pr	
	Roches Point ...	1019.4	+10	WN	3	bc	46	75	8	3	-	3	2.3	4.6	2500	1022.2	+20	W'N	4	bc/pr	45	85	8	3	-	-	5	2.3	4.6	2500	1	*	pr	pr	pr	pr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS

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

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

COLUMNS 9, 23:—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

† Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

Cloud form abbreviations --

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

COLUMN 29 — STATE OF GROUND

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

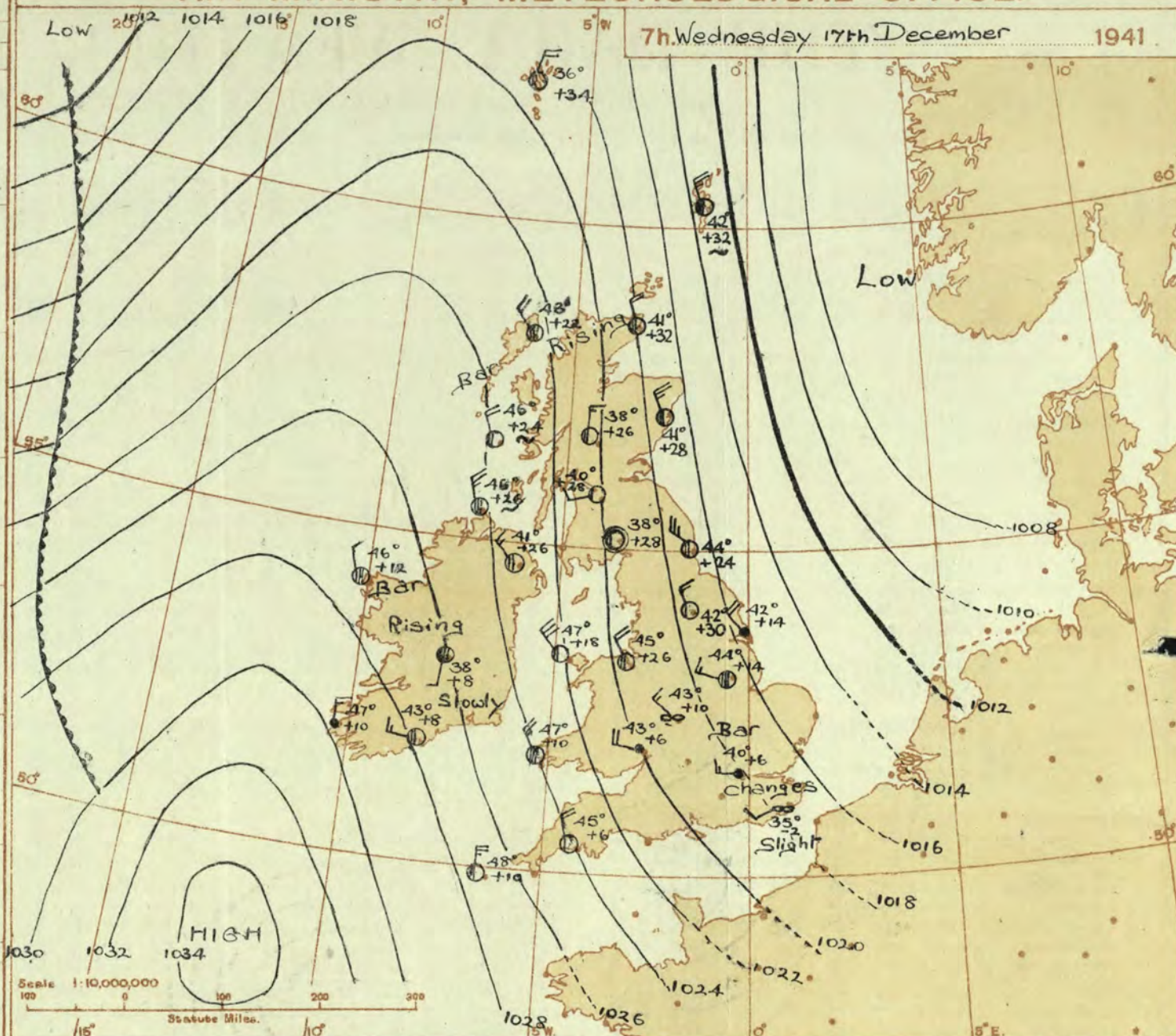
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T.	14h. Dec.	15h. G.M.T.	16h. G.M.T.	17h. G.M.T.	18h. G.M.T.	19h. G.M.T.	20h. G.M.T.	21h. G.M.T.	22h. G.M.T.	23h. G.M.T.	24h. G.M.T.
III, C _u	ww, Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN	C _u , C _l , Vh, N _h , DDFWN
109 9-	25845 24585	9-	81746 26486					30	25755 29685		
115											
203											
206 83	02964 18426	8-	01864 20284					3-	81854 61484		
210 86	02954 20425	8-	25854 20384					4-	02856 26425		
220 83	01844 27415	80	81544 27584								
230 90	01844 22484	9-	81757 22487	20	00743 28383	20	01843 31413				
245 10	00961 23303	5-	01774 23484					54	00851 63511		
260 26	00751 22282	00	05690 22313	50	05663 22313	50	00863 10203				
279 96	01844 25515	96	81846 25488	80	00843 26583	50	00841 26501				
285											
288 26	00852 22303	40	05661 21111	00	05690 20210	50	05665 25215				
295 30	01853 26383	30	25883 26583	30	81743 28383	30	00752 28242				
301 36	01754 24484	20	00753 27483	2-	25655 28485	20	00651 30421				
321 54	05652 22402	56	05553 23384	54	05662 23402	55	05681 26423				
299 50	05652 20302	00	00790 20200					50	81744 30584		
292 30	01853 56413	40	00752 20182	00	05690 23310	50	00763 61413				
310 --	01635 24415	--	02628 24478					--	02628 24428		
614 10	05662 24202	2-	81655 59385	8-	08454 24284	5-	05565 26287				
333 24	01854 20515	8-	02855 26486	80	00852 28612	8-	02855 61615				
334 --	27644 28385	--	27645 28386					--	02645 18216		
340 20	01854 24404	3-	01865 25325	2-	25856 22286	8-	02845 30486				
136 14	05641 22401	4-	05665 22315	50	05663 24300	53	05664 26416				
330 54	01753 24315							14	01753 28414		
350 10	05690 22302	40	00762 20312	8-	25856 21286	8-	25545 25388				
368 20	25853 24483	80	00855 25483	50	00752 24402	54	01653 25303				
279 04	00890 20203	03	00790 22313	50	25753 26383	5-	02756 26416				
390 24	06653 22313	40	08462 24312	00	05590 24200	40	05564 26314				
382 17	00751 23301	40	01763 22313	5-	05665 23325	5-	01764 24414				
438											
430											
400											

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_l = 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.



Mb.
-1050
-1045
-1040
-1035
-1030
-1025
-1020
-1015
-1010
-1005
-1000
-995
-990
-985
-980
-975
-970
-965
-960
-955
-950
-945
-940
-935
-930
-925
-920
-915
-910
-905
-900
-895
-890
-885
-880
-875
-870
-865
-860
-855
-850
-845
-840
-835
-830
-825
-820
-815
-810
-805
-800
-795
-790
-785
-780
-775
-770
-765
-760
-755
-750
-745
-740
-735
-730
-725
-720
-715
-710
-705
-700
-695
-690
-685
-680
-675
-670
-665
-660
-655
-650
-645
-640
-635
-630
-625
-620
-615
-610
-605
-600
-595
-590
-585
-580
-575
-570
-565
-560
-555
-550
-545
-540
-535
-530
-525
-520
-515
-510
-505
-500
-495
-490
-485
-480
-475
-470
-465
-460
-455
-450
-445
-440
-435
-430
-425
-420
-415
-410
-405
-400
-395
-390
-385
-380
-375
-370
-365
-360
-355
-350
-345
-340
-335
-330
-325
-320
-315
-310
-305
-300
-295
-290
-285
-280
-275
-270
-265
-260
-255
-250
-245
-240
-235
-230
-225
-220
-215
-210
-205
-200
-195
-190
-185
-180
-175
-170
-165
-160
-155
-150
-145
-140
-135
-130
-125
-120
-115
-110
-105
-100
-95
-90
-85
-80
-75
-70
-65
-60
-55
-50
-45
-40
-35
-30
-25
-20
-15
-10
-5
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
150
155
160
165
170
175
180
185
190
195
200
205
210
215
220
225
230
235
240
245
250
255
260
265
270
275
280
285
290
295
300
305
310
315
320
325
330
335
340
345
350
355
360
365
370
375
380
385
390
395
400
405
410
415
420
425
430
435
440
445
450
455
460
465
470
475
480
485
490
495
500
505
510
515
520
525
530
535
540
545
550
555
560
565
570
575
580
585
590
595
600
605
610
615
620
625
630
635
640
645
650
655
660
665
670
675
680
685
690
695
700
705
710
715
720
725
730
735
740
745
750
755
760
765
770
775
780
785
790
795
800
805
810
815
820
825
830
835
840
845
850
855
860
865
870
875
880
885
890
895
900
905
910
915
920
925
930
935
940
945
950
955
960
965
970
975
980
985
990
995
1000

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 17th December
1 S.E. England	
2 E. England ...	Moderate northwest winds, fresh locally on coasts, decreasing and backing slowly.
3 E. Midlands ...	Fair apart from rather frequent showers of rain or hail near East coast at first; local morning fog; rather cold; 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.	
13A W. Scotland	
13B N.W. Scotland	Light variable winds becoming south, moderate. Fair at first; occasional rain later. Becoming milder.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	Light variable winds becoming south. Fair; local morning fog. Rather cold; night frost.
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 to southwest of the British Isles is moving slowly northeast and a depression west of Iceland is also moving northeast. A trough of low pressure will approach northwest districts. Weather will be fair at first apart from showers near the East coast but rain is likely later in the Northwest and North.

FURTHER OUTLOOK.

Mainly fair in the South and Midlands with fog developing. Rather unsettled in the Northwest.

Forecasts issued at 10-30 G.M.T.

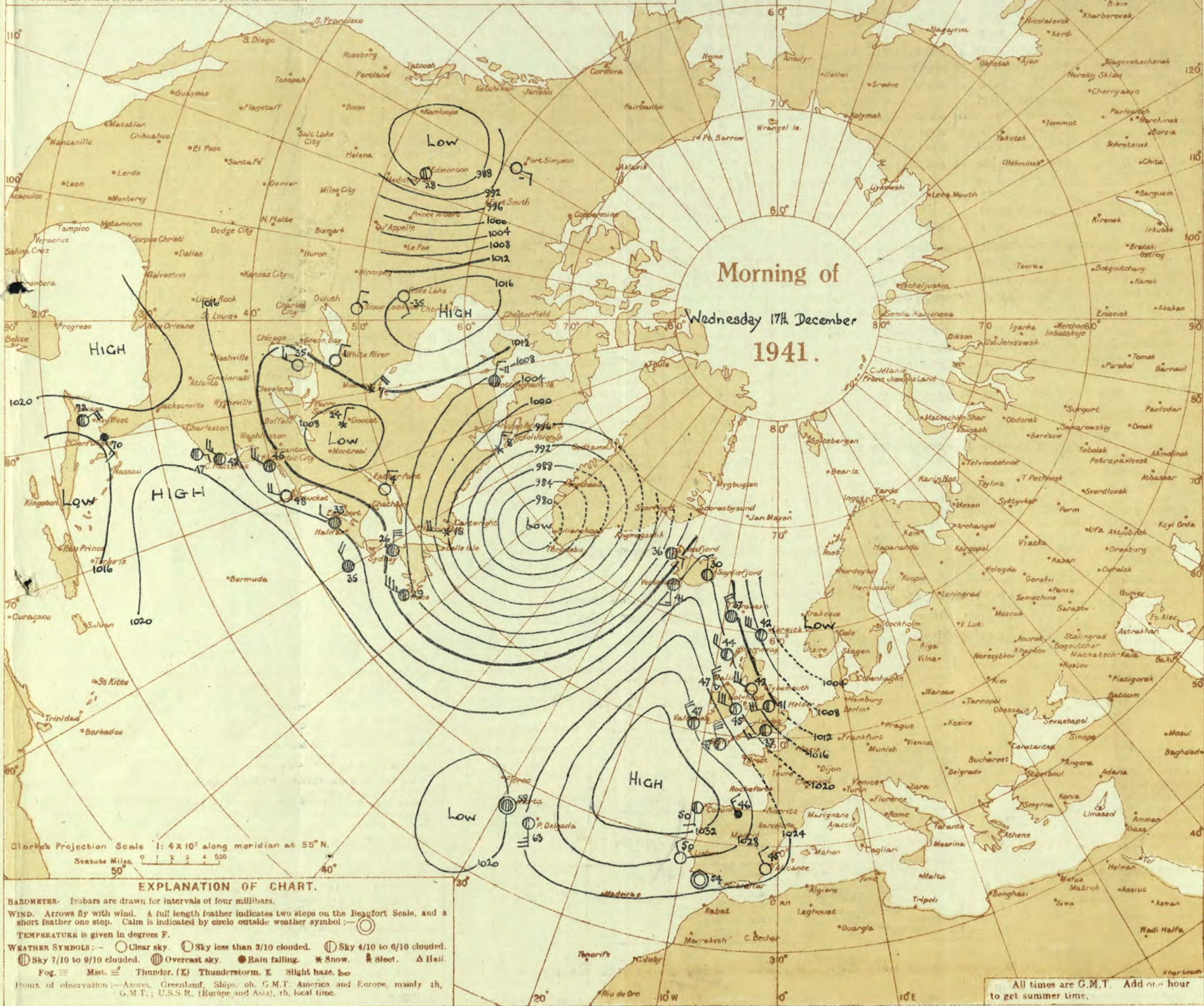
N. K. JOHNSON, D.Sc., A.R.C.S.
Director.

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.



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. mb. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (7)	Humid. % (8)	Visibility. miles (9)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. miles (22)	Cloud.			State of Ground. 0-9 (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.		SUN- SHINE Hrs. (36)						
					Direc. (3)	Force. 0-12 (4)					Low. (10)	Med. (11)	High (12)			Low 0-10 (13)	Total 0-10 (14)					Base. (feet) (14)	Direc. (17)	Force 0-12 (18)			Low (23)	Med. (24)	High (25)	Low 0-10 (26)	Total 0-10 (27)		Height of Base (feet) (28)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)	Night 18h-7h mm. (35)
1	London (Kew) ... Croydon ... S. Farnborough ... Boscombe Down ... Thorney Island ... Lymington ... Manston ...	18 217 226 417 10 346 154	1017.5 1018.0 1019.0 1018.6 1018.2 1016.6	0 +2 +2 +2 +6 +6	WSW WN WNW WN WN WN	3 3 4 3 2 3	bc bc bc bc bc bc	38 37 37 41 40 33 37	92 92 92 85 92 97 92	6 6 6 7 8 6 5	1 1 1 1 1 1 1	2-3 2-3 2-3 2-3 2-3 Tr 2-3	1018.8 1018.5 1019.4 1020.4 1020.0 1018.2 1016.9	+10 +6 +6 +6 +6 -2 +2	WNW W WNW WNW WNW WSW WNW	2 3 3 3 3 2 4	bc bc bc bc bc bc bc	41 40 39 37 38 35 42	85 85 85 92 92 97 85	6 5 5 6 5 6 6	5 5 5 5 5 5 5	1 1 1 1 1 1 1	3 3 3 3 3 3 3	47 49 48 48 49 47 49	38 36 36 37 37 32 36	30 29 31 33 32 27 31	- - - - Tr - Tr	Tr 0.4 G - Tr - Tr	5.3 5.6 6.0 4.9 * 4.4 4.7									
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	11 15 5 19 240	1017.0 1015.4 1014.8 1015.2 1014.6	+4 0 0 +2 +2	WSW W W WSW WS	2 3 2 3 3	bc bc bc bc bc	38 39 40 36 37	85 85 75 92 92	6 6 5 6 5	1 1 1 1 1	0 0 0 0 4-6	1017.3 1016.5 1015.4 1016.3 1016.8	+6 +6 +6 +6 +4	WNW WNW NW W WNW	2 4 2 4 3	bc bc bc bc bc	39 41 40 40 44	92 75 85 97 75	6 5 6 6 5	1 1 1 1 1	3 3 3 3 3	48 48 47 47 44	38 37 36 35 36	31 31 33 31 33	- - - Tr Tr	- - - Tr Tr	4.4 5.5 * 4.7 5.1										
3	Birmingham ... Upper Heyford ... Ross-on-Wye ...	535 408 223	1016.7 1016.7 1016.7	0 0 0	SW SW SW	2 2 2	bc bc bc	39 39 39	92 92 92	6 6 6	5 5 5	0 0 0	1018.9 1018.1 1019.8	+10 +8 +6	NW WNW WN	3 4 4	bc bc bc	43 41 43	85 85 75	5 6 8	5 4 5	1 1 1	3 3 3	46 46 48	38 35 40	33 35 34	Tr Tr 0.3	2 Tr Tr	5.9 * 6.1									
5	Hartland Point ... Bristol ... Portland Bill ... Plymouth ... The Lizard ... Scilly (St. Mary's) ... Guernsey ...	299 209 32 82 240 163 175	1021.6 1019.7 1019.0 1022.5 1023.9 1025.1 1025.1	+4 +6 +4 +2 +4 +6 +6	N WNW W NW NW NW NW	4 4 4 4 5 5 5	bc bc bc bc bc bc bc	48 43 47 44 45 47 47	65 85 92 85 85 75 75	8 6 5 7 7 8 8	1 1 1 1 1 1 1	7-8 7-8 4-6 2-3 7-8 4-6 4-6	1023.8 1021.4 1021.2 1024.0 1025.9 1026.5	+10 +6 +10 +6 +14 +10	NW W W NNW NNW N	5 1 4 4 4 5	bc bc bc bc bc bc	47 39 46 45 44 48	75 85 85 85 85 75	8 2 5 7 7 8	2 2 5 4 4 8	1 1 1 1 1 1	5 5 3 3 3 4	48 48 51 49 49 43 50	40 38 43 43 43 45	38 31 31 36 36 36	3 2 0.2 Tr Tr 1 1	Tr - - Tr Tr Tr 1	2.9 5.1 * 3.8 4.2 2.0									
6	Pembroke ... Holyhead (Valley) ... Chester (Sealand) ... Manchester ...	142 26 16 235	1021.6 1018.5 1016.7 1016.5	+2 +12 +10 +12	NW NW WNW NW	7 5 4 4	bc bc bc bc	47 45 45 41	85 85 85 92	8 7 7 6	1 1 1 1	4-6 2-3 7-8 10	1024.3 1021.5 1020.6 1019.7	+10 +18 +26 +26	NW NW NW WNW	5 6 4 2	bc bc bc bc	47 47 45 41	85 85 85 92	8 5 7 5	2 5 8 6	1 1 1 1	4 4 4 4	48 48 47 46	43 43 42 39	30 40 36 34	- - 0.2 1	- Tr 3 1	3.1 * 4.0 *									
10	Spurn Head ... Catterick ... Tynemouth ...	29 175 108	1012.7 1013.1 1011.8	0 +10 +4	W W NW	5 3 4	bc bc bc	41 43 42	85 75 85	6 7 7	1 1 1	2-3 0 0	1015.2 1018.1 1017.2	+14 +30 +24	NW NNW WNW	4 3 5	bc bc bc	42 42 44	85 75 75	6 5 7	5 5 2	1 1 1	3 3 3	44 46 45	39 39 39	33 33 34	- - -	- - -	4.4 2.9 *									
11	St. Abbs Head ... Leuchars ...	280 36	1010.4 1011.5	+18 +22	W W	5 3	bc bc	45 42	65 75	7 8	4 5	2-3 1	1016.9 1018.4	+28 +30	WNW WNW	5 3	bc bc	43 42	75 75	7 8	4 5	4 1	1 1	2-3 4-6	2500 3200	0 1	3 3	43 44	40 38	30 30	- -	- -	5.0					
12	Renfrew (Abbots L.) ... Eskdalemuir ... Point of Ayr ...	19 794 30	1014.3 1015.5 1015.5	+30 +10 +10	WNW NW NW	3 6 6	bc bc bc	44 47 47	75 85 85	7 8 8	4 8 8	Tr 2-3 2-3	1020.3 1019.2 1020.9	+28 +28 +22	WSW W NW	2 0 5	bc bc bc	40 38 47	85 75 85	8 7 8	4 1 4	1 1 1	1 1 1	Tr 0 Tr	3500 0 2500	1 1 1	5 5 5	45 39 46	39 33 43	30 31 31	1 0.6 -	0.2 1.4 3	2.4 1.4 2.8					
13A	Tiree ... Stornoway ...	22 80	1017.3 1016.2	+40 +60	NNW NW	4 4	bc bc	47 44	85 92	8 7	8 2	2-3 2-3	1023.3 1022.4	+24 +22	NNW NW	4 4	bc bc	46 43	85 85	8 7	2 8	1 7	1 1	4-6 7-8	2500 2000	0 1	5 2	48 47	46 41	30 30	0.3 1	0.3 2	2.4 0.7					
15	Dalwhinnie ... Aberdeen ... Wick ...	1176 79 119	1011.1 1011.1 1011.1	0 0 0	W W NNW	3 3 3	bc bc bc	43 42 42	75 85 85	8 8 8	3 3 3	4-6 4-6 4-6	1017.4 1018.2 1014.1	+28 +32 +32	NNW NNW NNW	5 5 5	bc bc bc	41 41 42	85 85 85	8 8 8	1 1 1	1 1 1	4-6 4-6 2-3	2400 1600 2500	1 1 1	3 3 3	47 43 47	40 40 41	35 37 37	0.6 1 1	3.8 3 1.2							
17	Blacksod Point ... Malin Head ... Aldergrove ...	18 84 268	1024.7 1018.8 1019.2	+20 +28 +22	NNW NW W	1 6 4	bc bc bc	46 47 42	75 85 85	8 7 7	2 2 3	1 4-6 1	1027.3 1023.9 1023.2	+12 +26 +26	NNW NNW NW	1 5 3	bc bc bc	46 46 41	85 85 92	8 7 7	5 8 8	1 1 1	2 3 3	49 48 43	43 41 39	30 33 33	0.5 3 3	- 2 1	- 1.6 1.2									
19	Birr Castle ... Valentia Obey ... Roches Point ...	173 30 22	1017.5 1026.2 1026.2	+14 +18 +18	NNW W W	4 3 3	bc bc bc	47 45 45	85 85 85	8 8 8	8 8 8	4-6 4-6 4-6	1026.2 1029.7 1028.0	+28 +10 +8	SW N WN	1 3 3	bc bc bc	38 47 43	85 85 92	8 8 8	5 8 3	1 1 1	1 1 1	7-8 9 9	2500 2500 1500	1 1 1	4 4 4	45 49 47	36 46 41	31 41 31	2 2 Tr	- 0.3 1	2.5 *					

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET
Thursday 8th December 1941.
No. 29,246

OBSERVATIONS at 13h. G.M.T. 7th December														OBSERVATIONS at 18h. G.M.T. 7th December														PAST 24 HOURS.								
Distance.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.						
				Dir.	Force. 0-12 (4)					Form.	Amount. Low 0-10 Med. 10-20 High 20-30 Total 30-100 (10-13)	Height of Base. (feet) (14)						Dir.					Force. 0-12 (18)	Form.	Amount. Low 0-10 Med. 10-20 High 20-30 Total 30-100 (23-26)	Height of Base. (feet) (28)						7h.—13h. (37)	13h.—18h. (38)	18h.—1st 15h. to (39)	1st.—7h. (40)	
1	London (Kew)...	021.8	+10	NW	3	bc	47	65	8	-	-	0	0	2500	024.7	+16	NW	2	20	42	75	6	-	-	0	0	-	1	*	bcwz	clcbz	bz x	bccmx			
	Croydon ...	021.0	+10	NW	5	bc	45	75	5	-	-	4-6	3	2000	024.3	+22	NW	3	30	42	85	6	-	-	0	0	-	1	*	bcwz	clcbz	bz x	bccmx			
	S. Farnborough	022.0	+10	NW	4	bc	47	65	8	-	-	2-3	2-3	2500	025.3	+20	NW	3	30	41	75	6	-	-	0	0	-	1	*	bcwz	clcbz	bz x	bccmx			
	Boscombe Down	023.2	+10	NW	4	bc	46	75	7	-	-	4-6	4-6	2500	025.8	+16	NW	2	20	40	85	6	-	-	4-6	4-6	3000	1	*	bcwz	clcbz	bz x	bccmx			
	Thorney Island	021.5	+10	NW	3	bc	48	75	7	-	-	2-3	2-3	4000	024.6	+16	NW	3	30	43	75	7	-	-	1	1	4000	1	*	bcwz	clcbz	bz x	bccmx			
	Lympne	020.0	+2	NW	5	bc	44	85	6	-	-	4-6	6	2000	022.8	+24	NW	5	50	42	85	6	-	-	0	0	1500	1	*	bcwz	clcbz	bz x	bccmx			
	Manston	020.1	+4	NW	4	bc	44	85	7	-	-	10	10	1800	021.0	+16	NW	4	40	43	85	6	-	-	7-8	7-8	2500	1	*	bcwz	clcbz	bz x	bccmx			
2	Shoeburyness	020.3	+12	NW	3	bc	45	75	6	-	-	2-3	4-6	3100	022.7	+14	NW	2	20	42	85	6	-	-	0	2-3	-	1	*	bcwz	clcbz	bz x	bccmx			
	Felixstowe	019.1	+8	NW	4	bc	45	75	7	-	-	3-4	5	2000	021.3	+12	NW	4	40	42	85	7	-	-	7-8	7-8	1300	1	3	3	3	*	bcwz	clcbz	bz x	bccmx
	Gorleston	018.5	+10	N	4	bc	44	75	6	-	-	4-6	4-6	1500	021.1	+16	NW	4	40	44	85	6	-	-	4-6	4-6	1500	1	3	3	3	*	bcwz	clcbz	bz x	bccmx
	Mildenhall	020.6	+14	NW	4	bc	44	85	6	-	-	4-6	4-6	3000	023.0	+14	NW	4	40	42	85	6	-	-	0	0	2700	0	*	bcwz	clcbz	bz x	bccmx			
	Cranwell	021.4	+10	NW	4	bc	46	75	7	-	-	7-8	7-8	3000	024.6	+16	NW	3	30	41	75	6	-	-	1	1	3000	1	*	bcwz	clcbz	bz x	bccmx			
3	Birmingham	023.6	+8	N	3	bc	44	75	6	-	-	1	1	2500	025.8	+16	N	3	30	41	75	4	-	-	7-8	7-8	2500	1	*	bcwz	clcbz	bz x	bccmx			
	Upper Heyford	022.4	+12	N	3	bc	45	75	6	-	-	1	1	4000	025.5	+18	NW	2	20	36	85	5	-	-	7-8	7-8	2500	1	*	bcwz	clcbz	bz x	bccmx			
4	Ross-on-Wye	023.7	+8	NW	3	bc	45	65	8	-	-	2-3	2-3	3500	026.1	+20	N	2	20	44	75	8	-	-	0	0	3000	1	*	bcwz	clcbz	bz x	bccmx			
5	Hartland Point	020.1	+6	NW	4	bc	47	75	8	-	-	4-6	4-6	1800	027.2	+8	N	3	30	47	75	8	-	-	2-3	2-3	2500	1	4	4	4	*	bcwz	clcbz	bz x	bccmx
	Bristol ...	024.2	+10	NW	4	bc	48	65	7	-	-	2-3	2-3	3000	026.3	+18	NW	4	40	46	75	5	-	-	2-3	2-3	3000	1	4	4	4	*	bcwz	clcbz	bz x	bccmx
	Portland Bill	023.4	+6	NW	4	bc	48	62	8	-	-	4-6	4-6	4000	025.2	+8	NW	3	30	47	85	8	-	-	7-8	7-8	4000	1	4	4	4	*	bcwz	clcbz	bz x	bccmx
	Plymouth	020.0	+8	NW	3	bc	49	75	8	-	-	9	9	3000	026.8	+4	NW	3	30	45	85	6	-	-	0	0	1	1	3	3	*	bcwz	clcbz	bz x	bccmx	
	The Lizard	025.7	+10	NW	4	bc	50	65	8	-	-	4-6	4-6	2500	027.5	+14	NW	4	40	43	82	8	-	-	4-6	4-6	2500	0	3	3	3	*	bcwz	clcbz	bz x	bccmx
	Scilly (St. Mary's)	028.1	0	N	4	bc	49	75	8	-	-	4-6	4-6	500	028.4	+2	NW	4	40	47	75	8	-	-	4-6	4-6	1400	1	4	4	4	*	bcwz	clcbz	bz x	bccmx
	Guernsey		
6	Pembroke	027.1	+10	NW	4	bc	48	62	8	-	-	4-6	7-8	3000	028.1	+16	NW	3	30	46	82	8	-	-	4-6	4-6	4000	1	3	3	3	*	bcwz	clcbz	bz x	bccmx
7	Holyhead (Valley)	024.9	+10	NW	5	bc	49	85	8	-	-	4-6	4-6	2000	027.0	+16	N	3	30	45	85	7	-	-	4-6	4-6	4000	0	4	4	4	*	bcwz	clcbz	bz x	bccmx
	Chester (Sealand)	024.0	+10	NW	3	bc	47	75	7	-	-	2-3	4-6	1500	026.3	+12	NW	2	20	40	82	5	-	-	0	0	-	1	*	bcwz	clcbz	bz x	bccmx			
8	Manchester	023.4	+6	NW	4	bc	44	75	6	-	-	7-8	7-8	4000	026.1	+10	N	0	0	37	85	6	-	-	1	1	4000	1	*	bcwz	clcbz	bz x	bccmx			
10	Spurn Head	020.4	+22	NW	5	bc	43	85	7	-	-	4-6	4-6	1500	023.2	+12	NW	5	50	43	85	7	-	-	2-3	2-3	2500	1	4	4	4	*	bcwz	clcbz	bz x	bccmx
	Catterick	023.2	+12	NW	3	bc	44	75	6	-	-	2-3	4-6	3200	026.2	+18	NW	2	20	41	85	7	-	-	0	0	2500	1	*	bcwz	clcbz	bz x	bccmx			
	Tynemouth	022.5	+16	NW	4	bc	45	65	8	-	-	3	3	2200	025.0	+20	NW	4	40	42	65	8	-	-	7-8	7-8	2500	1	3	3	3	*	bcwz	clcbz	bz x	bccmx
11	St. Abbs Head	021.7	+18	NW	4	bc	43	75	8	-	-	4-6	4-6	2500	024.8	+16	N	4	40	43	65	8	-	-	4-6	7-8	2500	0	3	3	3	*	bcwz	clcbz	bz x	bccmx
	Leuchars	023.3	+20	NW	2	bc	43	65	3	-	-	7	7	4500	025.5	+16	NW	2	20	40	75	8	-	-	1	0	Tr	-	1	*	bcwz	clcbz	bz x	bccmx		
12	Reafrew (Abbots L.)	025.2	+22	NW	3	bc	45	65	8	-	-	0	Tr	-	026.1	+14	SW	1	10	35	85	6	-	-	4	1	0	2-3	-	1	*	bcwz	clcbz	bz x	bccmx	
	Exdalemuir	023.8	+16	NW	1	bc	42	65	8	-	-	1	2-3	2500	026.7	+10	N	0	0	20	85	7	-	-	0	0	-	3	3	3	*	bcwz	clcbz	bz x	bccmx	
	Point of Ayre	024.8	+14	NNE	3	bc	47	75	8	-	-	2	Tr	3000	026.5	+10	N	3	30	45	75	8	-	-	Tr	1	3000	0	3	3	3	*	bcwz	clcbz	bz x	bccmx
13A	Three	025.6	+6	NW	2	bc	47	65	8	-	-	2-3	2-3	3500	026.2	0	-	0	41	82	8	-	-	0	0	2500	0	3	3	3	*	bcwz	clcbz	bz x	bccmx	
13B	Stornoway	025.4	+10	NW	3	bc	45	85	7	-	-	2-3	7-8	3000	026.3	0	WSW	2	20	41	82	7	-	-	2-3	2-3	2500	1	1	1	1	*	bcwz	clcbz	bz x	bccmx
15	Dalwhinnie	026.9	+18	NW	2	bc	39	75	8	-	-	7-8	7-8	2500	026.2	+12	SW	1	10	32	85	8	-	-	4-6	4-6	1500	1	*	bcwz	clcbz	bz x	bccmx			
	Aberdeen	022.3	+24	NW	5	bc	42	75	8	-	-	4-6	7-8	2100	024.7	+18	NW	4	40	41	75	7	-	-	7-8	7-8	3200	1	2	2	2	*	bcwz	clcbz	bz x	bccmx
	Wick	022.6	+14	NW	4	bc	42	65	8	-	-	3	3	2400	024.7	+10	NW	3	30	41	75	7	-	-	3	3	2500	1	*	bcwz	clcbz	bz x	bccmx			
16	Sumburgh	019.9	+26	NW	4	bc	43	75	8	-	-	3	3	2500	022.5	+14	NW	2	20	40	82	8	-	-	2-3	2-3	2500	1	4	4	4	*	bcwz	clcbz	bz x	bccmx
17	Blackod Point	023.3	+8	N																																

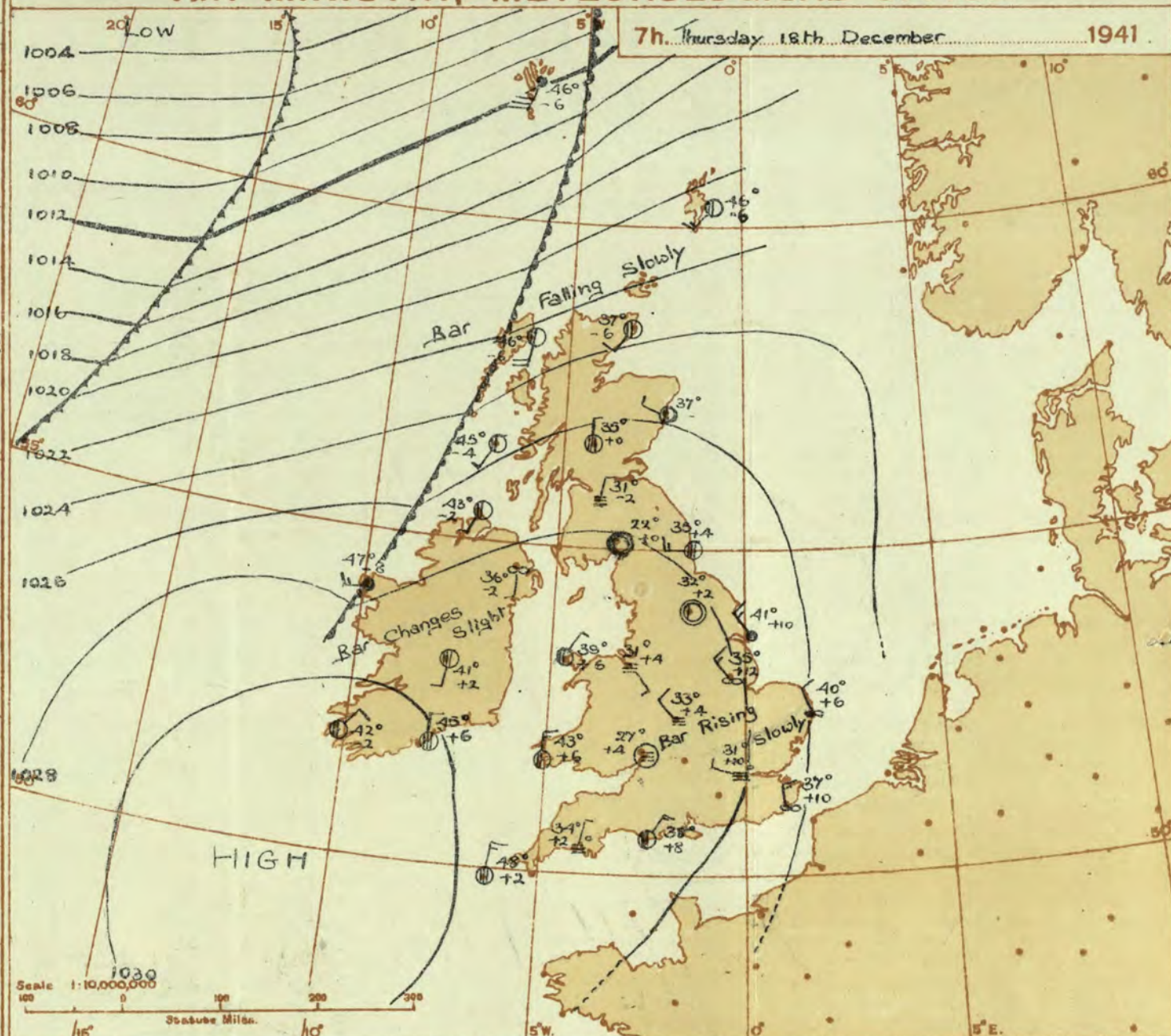
Abridged observations of additional stations in the

AVIATION WEATHER CODE

13h. G.M.T. 17th December 1941				15h. G.M.T. 18th December 1941				01h. G.M.T. 19th December 1941				07h. G.M.T. 19th December 1941			
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	5	28855	20885	5	02857	28427	5	01853	16223	5	02854	20324			
115	52	02844	28387	52	02844	28327	57	02844	20327	52	81844	20487			
203				5	01945	00025	5	02837	16427	5	03848	16418			
206	82	01964	28114	8	02855	26125	53	01864	26224	53	01863	22218			
210	40	02854	20425	40	00883	24213	5	01864	21214	50	01863	18123			
220										50	02445	18215			
230	74	01064	20214	03	01800	28213	50	00763	00003	50	05663	00013			
245	80	01064	30015	40	00851	29312	50	01762	23224	57	00862	24323			
260	57	01763	28114	00	47030	00000	00	08400	00040	50	05663	00003			
278	16	01841	28613	47	00841	28314	50	01861	14114	57	05654	00016			
279	53	05651	28---	00	05550	30100	00	08430	00010	04	08430	00002			
285	13	02853	32514	50	00852	32212				50	01744	32314			
288	5	17-57	27307	5	08458	27228	50	05661	28111	44	05562	23102			
575	87	02854	20315	57	02753	28225	5	21758	20158	50	00753	00053			
301	05	05650	30303	00	47030	00100	--	46803	00143	00	45300	00140			
321	44	0864	20404	53	05664	28324	5	05667	27327	50	08481	26221			
299	80	14744	32614	80	51445	31655	50	01743	30553	50	01743	24213			
292	5	02855	00415	5	02767	26327	5	02766	26116	50	05663	00014			
310	--	05434	24414	--	01624	26314				--	01643	26313			
244	13	05657	32002	5	05654	32214	50	05651	28101	53	05652	26103			
333	14	01855	28525	4	00752	30412	5	01755	26215	5	01753	00013			
334	--	02853	02215	--	02764	04215				--	02664	04215			
340	10	05661	20201	20	05653	30213	00	45030	02140	00	45190	16140			
136	80	05643	28484	80	25054	29485	50	01764	27484	54	25766	29387			
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	00751	28201	50	05554	30114	04	08430	03111			
379	10	05651	30401				00	05550	30114	50	08462	30202			
390	5	05657	28487	5	05667	20417	5	05568	29388	5	05566	30326			
382	17	05662	31403	53	05664	30214	00	05650	25100	01	47330	29241			
438										54	01753	32413			
430	20	00762	30402	50	05663	30313	00	05530	32400	04	05630	30301			
409	54	01854	20514	50	01853	31314	20	00852	32102	5	02756	00116			

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 (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 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 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.

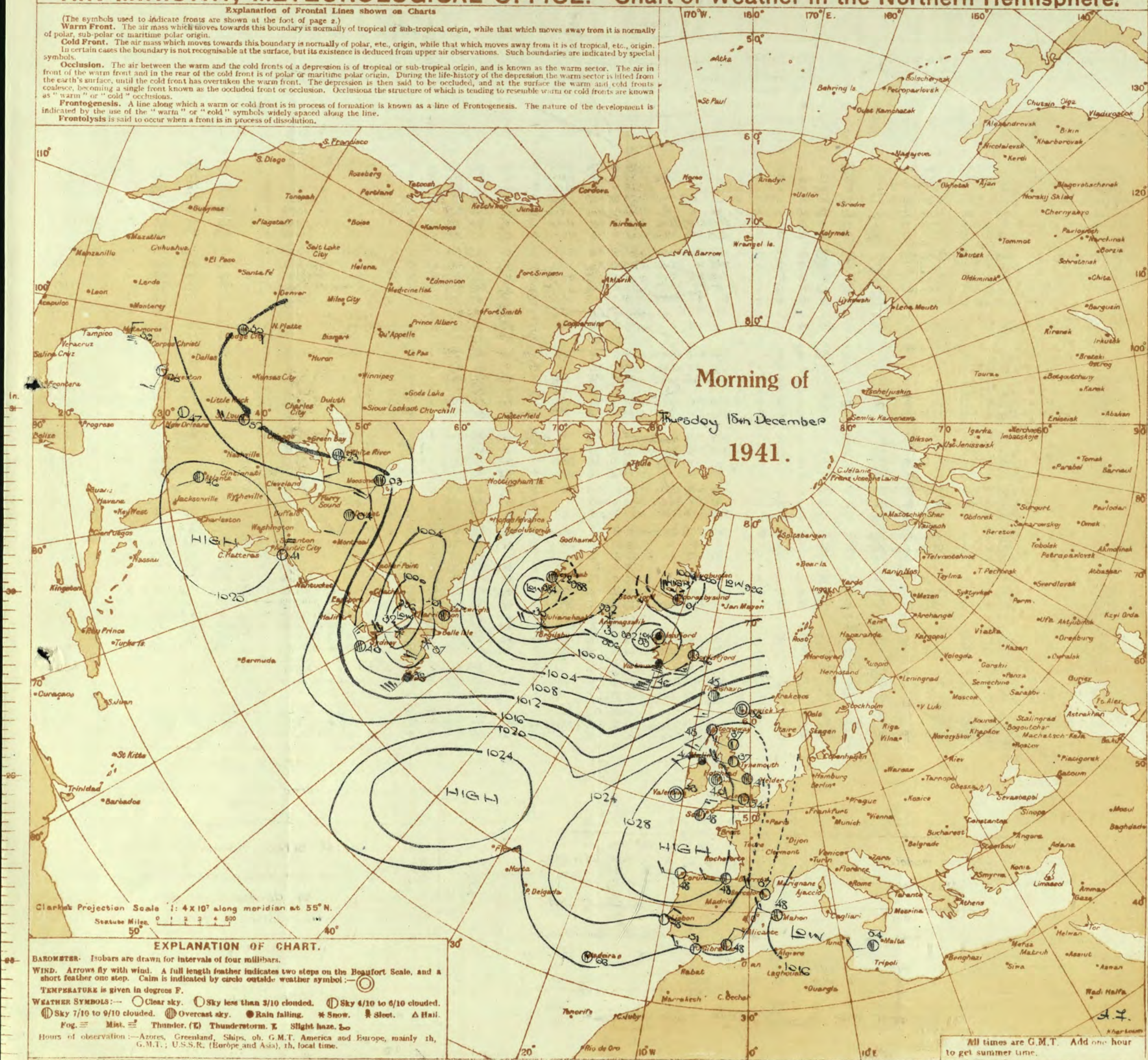
Forecasts issued at 10.30 G.M.T.
 H.M.S.O. Press, Meteorological Office, Dunstable.

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 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.



PAST 24 HOURS.

[illegible]

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

AIR
MINISTRY.

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.

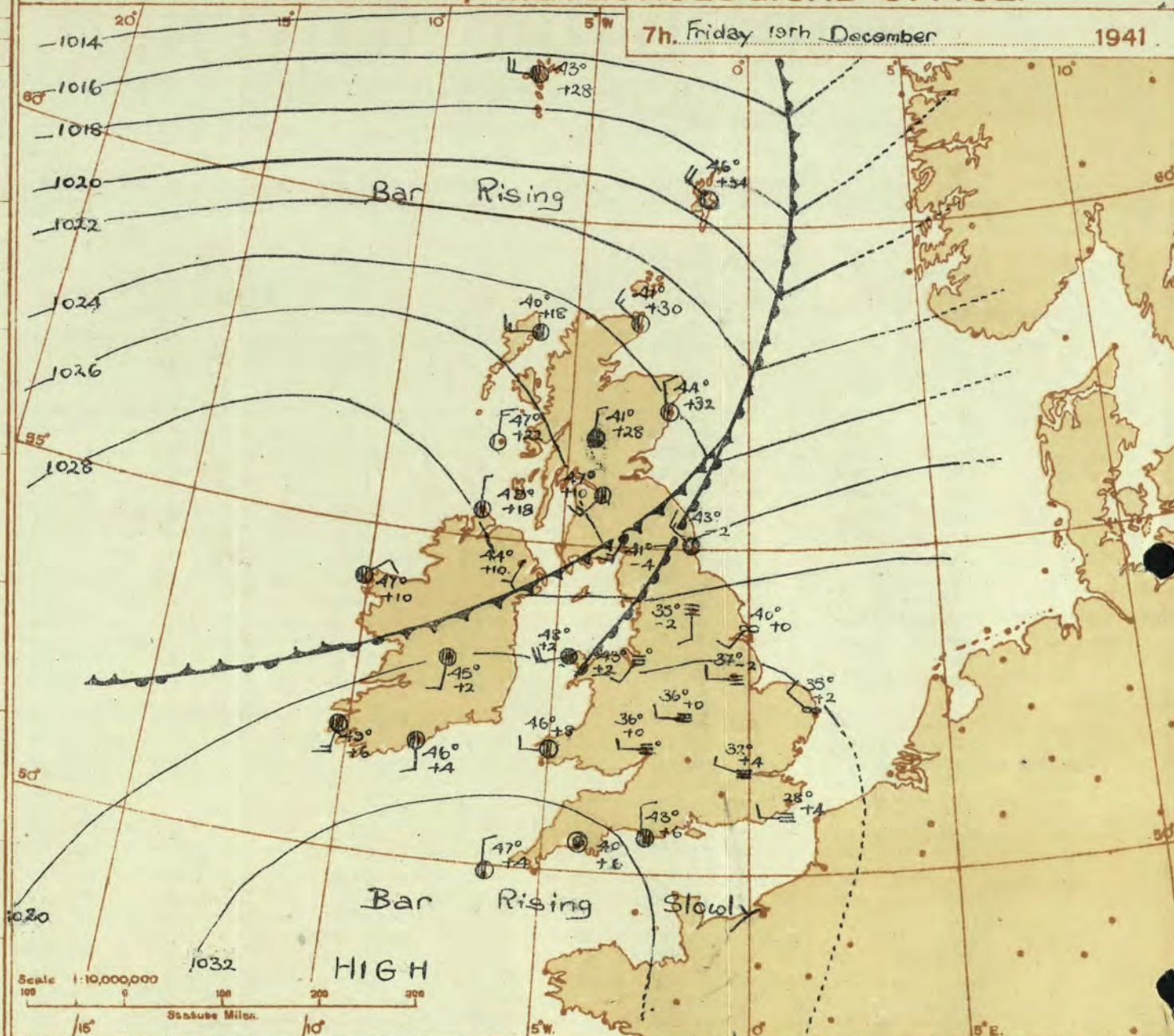
Dist.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.															
				Direc. (3)	Force. (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (14)	Form. (23)	Amount (24)			Height of Base (feet) (28)	7h.—15h. 18h. (37)					15h.—18h. 18h. (38)	18h.—to 1h.—19h. 19h. (39)	1h.—7h. 19h. (40)																				
																										Low.	Med.			High	Low	Total 0-10	Low	Med.	High	Low	Total 0-10	Low	Med.	High	Low	Total 0-10	Low	Med.	High
1	London (Kew)...	1029.4	+4	NW	2	z	42	65	5	-	5	8	0	9+	-	1030.1	+8	NNW	2	m	39	85	4	2	2	8	0	9	-	1	*	mxfz	czozmw	bcbf	bcbf										
	Croydon ...	1029.2	+2	N	2	m	37	85	4	-	3	2	0	9	-	1029.5	+2	WS	2	cft	35	85	2	-	-	-	0	0	-	1	*	bcbf	cmcf	bcbf	bcbf										
	S. Farnborough	1029.8	+2	WN	1	z	39	75	5	-	-	8	0	7-8	-	1030.4	+6	-	0	z	32	85	5	-	-	1	0	Tr	-	3	*	bmbcbz	bcbz	bmbcbz	bmbcbz										
	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	-	1	*	bmbcbz	bmbf	bmbcbz	bmbcbz										
	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	*	bmbcbz	bcbz	bmbcbz	bmbcbz										
	Lymington	1027.8	0	NNW	2	z	43	85	6	8	-	3	9	9+	4000	1028.7	+8	NW	1	z	34	52	2	-	-	-	0	0	-	1	\$2	bcbz	cmcf	bcbz	bcbz										
	Manston	1027.9	+2	NW	3	z	43	85	6	5	-	9	46	9	4000	1028.6	+6	NW	3	m	40	85	3	-	-	3	9	-	3200	1	*	bcbz	cmcf	bcbz	bcbz										
2	Shoeburyness ...	1028.1	+2	NNW	2	c	43	75	6	5	7	8	46	9+	5700	1028.9	+6	NW	2	b	35	85	5	-	4	-	0	1	-	1	*	m.c	czozmw	bcbz	bcbz										
	Felixstowe	1027.7	-2	NW	3	z	44	75	6	-	7	7	0	3+	-	1028.7	+6	NW	3	m	37	85	4	-	7	-	0	Tr	-	1	2	pr	bcbz	bcbz	bcbz										
	Gorleston	1026.8	+2	N	3	c	45	75	7	8	7	-	4-6	7-8	1500	1028.2	+10	NW	2	z	42	85	6	5	-	-	4-6	4-6	1500	1	2	bcc	bcbz	bcbz	bcbz										
	Mildenhall	1028.6	+2	NNW	2	z	40	85	6	-	7	6	0	3	-	1029.4	+6	WS	1	cft	36	52	3	5	7	-	2-3	10	2400	0	*	bcbz	cmcf	bcbz	bcbz										
	Cranwell	1028.8	-2	NNW	2	m	41	75	4	-	7	8	0	4-6	-	1029.4	+6	W	2	bft	36	85	3	-	-	-	0	0	-	1	*	bcbz	cmcf	bcbz	bcbz										
3	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	bcbz	bcbz	bcbz										
	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	bcbz	bcbz	bcbz										
	Ross-on-Wye	1029.4	0	ES	1	bcbf	36	92	3	5	-	2	Tr	2-3	4000	1029.7	0	-	0	cf	35	52	2	5	-	-	7-8	7-8	3000	1	*	Fbcbf	bcbz	bcbz	bcbz										
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	bcbz	bcbz	bcbz										
	Bristol ...	1030.5	-2	NW	0	bcbf	31	97	1	-	-	2	0	4-6	-	1030.6	+6	-	0	bcbf	31	57	3	5	3	-	1	4-6	3000	1	*	bmbfbc	bcbz	bcbz	bcbz										
	Portland Bill	1029.4	+2	NE	3	bc	40	85	8	2	-	-	4-6	4-6	4000	1029.6	+6	NE	3	bc	39	52	7	5	-	-	4-6	4-6	2500	1	4	bcbz	cmcf	bcbz	bcbz										
	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	bcbz	bcbz	bcbz										
	The Lizard	1030.0	0	-	0	c	49	75	8	8	6	-	7-8	7-8	2500	1030.5	+4	-	0	c	45	85	8	8	-	-	7-8	7-8	2000	0	3	bcbz	cmcf	bcbz	bcbz										
	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	3	3	3	4-6	5	1500	1	3	gcbz	bcbz	bcbz	bcbz										
	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	bcbz	c	bcbz	bcbz										
6	Pembroke	1029.4	-4	SW	1	c	49	92	8	8	3	-	7-8	9	2500	1029.4	+10	NNW	1	q	46	75	8	5	-	-	10	10	4000	0	2	c	bcbz	bcbz	bcbz										
7	Holyhead (Valley)	1029.6	-2	SW	0	cf	36	92	2	5	-	-	9	9	3000	1029.4	+6	-	0	rf	40	92	3	5	-	-	10	10	3000	1	*	cffx	bcbz	bcbz	bcbz										
8	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	*	cffx	bcbz	bcbz	bcbz										
	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	*	efbc	bcbz	bcbz	bcbz										
10	Spurn Head	1028.3	+6	NNW	3	z	41	75	6	4	3	7	2-3	4-6	4000	1028.5	+4	NNW	1	b	41	85	6	-	-	-	0	0	-	0	3	bcbz	cmcf	bcbz	bcbz										
	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	*	cmcf	bcbz	bcbz	bcbz										
	Tynemouth	1028.0	-2	W	4	bc	39	85	6	-	4	2	0	4-6	-	1028.3	+4	W	3	z	39	85	5	2	-	-	2-3	2-3	2500	1	3	bcbz	cmcf	bcbz	bcbz										
11	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	bcbz	cmcf	bcbz	bcbz										
	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	*	bcbz	cmcf	bcbz	bcbz										
12	Renfrew (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	*	bcbz	cmcf	bcbz	bcbz											
	Eskdalemuir	1028.6	-2	-	0	c	30	97	7	5	-	-	9	9	1500	1028.4	-2	-	0	F	33	97	2	-	-	10	10	1500	1	*	bcbz	cmcf	bcbz	bcbz											
	Point of Ayre	1028.2	+2	WS	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	bcbz	cmcf	bcbz	bcbz										
13A	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	bcbz	cmcf	bcbz	bcbz										
13B	Stornoway	1021.8	-16	S	5	pr	48	92	8	7	-	-	7-8	9+	2000	1018.8	-22	SSW	6	pr	49	97	7	5	7	-	7-8	9+	1500	1	3	bcbz	cmcf	bcbz	bcbz										
15	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	*	bcbz	cmcf	bcbz	bcbz										
	Aberdeen	1025.2	-14	SW	2	bc	44	65	6	5	-	1	1	1	3500	1024.6	-6	SWW	2	m	38	75	4	5	-	-	1	1	1400	3	2	bcbz	cmcf	bcbz	bcbz										
	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	*	bcbz	cmcf	bcbz	bcbz										
16	Sumburgh	1021.3	-6	SWW	3	c	47	85	8	5	3	-	7-8	9	2500	1020.0	-10	SW	4	0	47	92	7	5	-	-	10	10	1500	1	4	bcbz	cmcf	bcbz	bcbz										
17	Blackod Point	1026.2	-6	SSW	2	c	49	85	7	5	-	-	9+	9+	2500	1025.8	-2	SW	4																										

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.			
III	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h
1095	01753	18313	5-	02757	18427	5-	61638	17468	30	25844	26384
115			52	81734	20587	52	64725	20588	54	01844	28465
2039	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	31	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-	05457	00067	5-	43368	04148	5-	05556	19357	5-	51548	21468
28523	01854	26415	23	01634	04314				50	05635	28415
28800	05630	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	48105	08145	52	05555	24128	5-	05648	24368
32100	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	05630	00010	5-	47266	12146	50	45163	10143
310--	04435	26215							--	01636	20216
61400	47390	24146				5-	47358	00048	5-	47268	24248
3335-	05665	08245	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	--	48205	20149	5-	45268	20148
36800	01630	00015	50	05565	00015	5-	08448	00018	5-	05548	00028
37003	05630	30114	03	05590	22113	5-	05566	26226	53	05564	24127
39054	05674	30227	03	47390	26144	00	48390	26140	--	49109	00049
38203	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	21755	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 = 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 ...	
8 N.W. England	Light westerly wind, veering N.W.; cloudy, occasional rain; local fog; Average or rather low temperature.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Light W. to N.W. wind. Cloudy with occasional rain at first.
12 S.W. Scotland & Isle of Man	Bright intervals and local showers later. Rather cold, frost locally at night.
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, Danby.

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
Friday 19th 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, oh, G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 19th December 1941

No. 29247

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

OBSERVATIONS at 7 hr. G.M.T. 19th December

PAST 24 HOURS

OBSERVATIONS AT 7 M. G.M.T.																																				FAST 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.		SUN-SHINE (36) Hrs.																		
					Direc.	Force.					Low.	Med.	High.			Low 0-10.	Total 0-10.					Height of Base (feet).	Direc.	Force.			Low.	Med.	High.	Low 0-10.	Total 0-10.		Height of Base (feet).	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)												
																																							Form.			Amount.			Form.			Amount.		
																																							0-12	0-12	0-12	0-12	0-12	0-12	0-12	0-12	0-12	0-12	0-12	0-12
1	London (Kew)	18	*	*	*	*	31	*	*	*	*	1031.5	+10	W	2	c	46	97	7	8	-	-	7-8	7-8	4000	1	2	43	42	30	17	-	-	4.1																
	Croydon	217	1030.8	+2	SSW	1	c	46	97	7	8	1031.3	+4	WNW	1	c	46	97	7	8	-	-	7-8	7-8	2500	1	3	39	27	23	-	-	0.0																	
	S. Farnborough	226	1031.2	-4	-	0	0	0	0	0	0	1031.6	+2	W	1	c	46	97	7	8	-	-	7-8	7-8	2500	1	3	40	25	17	0.1	-	0.7																	
	Boscombe Down	417	1031.4	-4	-	0	0	0	0	0	0	1032.3	+8	WNW	1	c	46	97	7	8	-	-	7-8	7-8	3500	1	3	39	31	21	-	-	0.7																	
	Thorney Island	10	1031.2	-2	NW	3	c	46	97	7	8	1031.7	+6	NW	2	c	46	97	7	8	-	-	7-8	7-8	2500	1	3	43	30	22	-	-	0.7																	
	Lymington	346	1029.8	0	NW	2	c	46	97	7	8	1030.6	+4	W	2	c	46	97	7	8	-	-	7-8	7-8	2500	1	3	43	27	21	-	-	1.4																	
	Manston	154	1029.9	-2	NNW	2	c	46	97	7	8	1030.7	+6	NW	2	c	46	97	7	8	-	-	7-8	7-8	2500	1	3	44	33	28	-	-	1.8																	
2	Shoeburyness	11	1030.2	+2	-	0	c	46	97	7	8	1030.7	+8	NW	2	c	46	97	7	8	-	-	7-8	7-8	1500	1	1	43	32	21	-	-	1.5																	
	Felixstowe	15	1029.8	+2	NW	2	c	46	97	7	8	1030.8	+10	NW	2	c	46	97	7	8	-	-	7-8	7-8	3500	1	1	43	33	30	-	-	1.4																	
	Gorleston	5	1029.6	0	NW	2	c	46	97	7	8	1029.8	+2	NW	2	c	46	97	7	8	-	-	7-8	7-8	1500	0	2	46	35	32	-	-	0.7																	
	Mildenhall	19	1030.5	+2	SW	2	c	46	97	7	8	1030.8	+2	SW	2	c	46	97	7	8	-	-	7-8	7-8	1500	0	2	42	29	22	-	-	0.7																	
	Cranwell	240	1030.1	-2	W	1	c	46	97	7	8	1030.0	-2	W	2	c	46	97	7	8	-	-	7-8	7-8	4000	1	3	42	30	26	-	-	2.5																	
3	Birmingham	535	*	*	*	*	*	*	*	*	*	1030.5	0	W	2	c	46	97	7	8	-	-	7-8	7-8	2500	1	3	42	34	22	-	0.2	2.7																	
	Upper Heyford	408	1030.4	-2	W	1	c	46	97	7	8	1030.9	+2	W	1	c	46	97	7	8	-	-	7-8	7-8	5000	1	3	38	29	26	-	-	0.7																	
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	1031.2	0	W	1	c	46	97	7	8	-	-	7-8	7-8	3000	1	3	41	34	26	-	-	4.6																	
5	Hartland Point	299	1030.5	-2	S	2	c	46	97	7	8	1031.5	+6	WNW	2	c	46	97	7	8	-	-	7-8	7-8	1500	1	3	47	44	41	-	0.5	3.1																	
	Bristol	209	1031.2	+2	-	0	c	46	97	7	8	1032.2	+6	W	1	c	46	97	7	8	-	-	7-8	7-8	2500	1	3	35	27	23	-	-	0.0																	
	Portland Bill	32	1030.7	+4	NNE	2	c	46	97	7	8	1031.2	+6	NNW	2	c	46	97	7	8	-	-	7-8	7-8	2500	1	4	42	37	30	-	-	0.0																	
	Plymouth	82	1031.7	+2	-	0	c	46	97	7	8	1032.1	+6	W	1	c	46	97	7	8	-	-	7-8	7-8	3000	1	3	47	35	30	-	-	0.0																	
	The Lizard	240	1031.1	0	NE	1	c	46	97	7	8	1032.6	+12	NNE	2	c	46	97	7	8	-	-	7-8	7-8	1500	1	3	51	43	30	-	-	1.7																	
	Scilly (St. Mary's)	163	1031.4	+2	NW	2	c	46	97	7	8	1032.0	+4	NW	2	c	46	97	7	8	-	-	7-8	7-8	1200	1	3	51	47	30	-	-	2.1																	
	Guernsey	175	*	*	*	*	*	*	*	*	*	1032.0	+4	NW	2	c	46	97	7	8	-	-	7-8	7-8	1200	1	3	51	47	30	-	-	2.1																	
6	Pembroke	142	1030.8	-4	WNW	3	c	46	97	7	8	1031.8	+8	W	2	c	46	97	7	8	-	-	7-8	7-8	4000	1	2	43	42	30	-	-	1.2																	
7	Holyhead (Valley)	26	1029.1	-2	W	3	c	46	97	7	8	1029.1	+2	WSW	4	c	46	97	7	8	-	-	7-8	7-8	3000	0	3	43	45	44	-	-	0.0																	
	Chester (Sealand)	16	1029.6	-4	SW	5	c	46	97	7	8	1028.6	+2	SW	5	c	46	97	7	8	-	-	7-8	7-8	3000	1	3	40	38	30	-	-	0.0																	
8	Manchester	235	1030.0	-2	WSW	2	c	46	97	7	8	1029.8	0	SSW	3	c	46	97	7	8	-	-	7-8	7-8	3000	1	3	39	33	31	-	-	0.0																	
10	Spurn Head	29	1029.1	+6	SW	1	b	36	97	6	4	1029.1	0	SW	2	c	46	97	7	8	-	-	7-8	7-8	2500	0	3	42	35	30	-	-	1.5																	
	Catterick	175	1028.5	-10	SSW	1	b	35	92	4	5	1028.1	-2	S/E	2	c	46	97	7	8	-	-	7-8	7-8	3000	0	3	41	34	33	-	-	3.8																	
	Tynemouth	108	1027.5	-10	W	2	z	40	85	5	2	1026.5	-2	NW	3	c	46	97	7	8	-	-	7-8	7-8	1500	1	3	40	38	34	-	-	0.0																	
11	St. Abbs Head	280	1023.6	-16	SW	4	c	41	85	7	5	1024.4	+4	SW	4	c	45	85	7	5	4	-	7-8	7-8	2500	0	3	44	38	34	-	-	0.0																	
	Leuchars	36	1024.7	-6	WSW	3	c	42	92	4	5	1024.7	+12	W	3	c	46	97	7	8	-	-	7-8	7-8	1500	1	3	41	38	34	-	-	3.2																	
12	Rentfrew (Abbots L.)	19	1024.5	-12	SW	3	c	46	92	5	5	1025.5	+10	SW	3	c	47	92	6	5	-	-	7-8	7-8	2500	1	3	39	38	38	-	-	0.0																	
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	1025.9	-4	SW	3	c	41	97	4	5	2	-	7-8	7-8	2500	1	3	33	33	33	-	-	0.0																	
	Point of Ayre	30	1027.5	-6	W	3	c	46	85	8	5	1027.5	0	W	4	c	47	97	7	6	2	-	7-8	7-8	1500	1	3	46	42	30	-	-	0.0																	
13A	Tiree	22	1022.2	0	NW	4	d	47	97	7	5	1027.0	+22	N	3	b	47	65	8	1	-	-	7-8	7-8	3500	0	4	48	46	30	-	-	1.2																	
13B	Stornoway	80	1020.4	+22	W	4	c	46	92	7	5	1025.3	+18	W	3	c	40	92	7	5	7	-	7-8	7-8	2000	1	1	40	40	30	-	-	0.0																	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	1025.6	+28	N	1	c	41	85	8	5	-	-	7-8	7-8	1500	1	1	41	40	35	-	-	0.1																	
	Aberdeen	79	*	*	*	*	*	*	*	*	*	1024.6	+32	NNW	2	b	44	92	7	8	-	-	7-8	7-8	2600	1	2	44	36	29	-	-	3.3																	
	Wick	119	1018.8	-14	SSW	4	c	45	95	8	5	1023.9	+30	NNW	3	b	41	75	8	2	-	-	7-8	7-8	3500	1	2	44	40	37	-	-	0.0																	
16	Sumburgh	30	1016.6	-20	WSW	4	z	47	97	6	5	1021.0	+34	NNW	4	b	46	75	8	8	-	-	7-8	7-8	1500	1	4	48	44	40	-	-	0.5																	
17	Blackod Point	18	1025.9	+2	S	4	d	50	97	7	6	1027.9	+10	ENE	2	c	47	97	7	5	-	-	7-8	7-8	800	1	3	50	45	30	-	-	0.0																	
18	Malin Head	84	1024.2	-2	SSW	4	c	47	92	7	9	1027.8	+18	N	1	c	49	75	7	9	-	-	7-8	7-8	1500	1	4	47	45	30	-	-	0.0																	
	Aldergrove	268	1027.3	-6	SW	3	c	44	97	6	5	1028.0	+10	SW	1	d	44	97	5	5	-	-	7-8	7-8	200	1	3	44	42	40	-	-	3.6																	
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	1029.3	+2	SSW	2	0	45	92	8	5	-	-	7-8	7-8	2500	1	3	49	40	39	-	-	3.1																	
20	Valentia Obay.	30	1030.1	-2	SW	3	c	48	97	6	5	1030.7	+6	SW	3	0	45	97	6	5	-	-	7-8	7-8	800	1	3	49	46	44	-	-	0.5																	
	Roches Point	22	1030.8	-4	W	3	c	43	97	8	5	1031.2	+4	S	2	c	46	97	8	5	-	-	7-8	7-8	1500	1	4	50	46	44	-	-	0.1																	

LONDON OBSERVATIONS

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

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

FOREIGN OBSERVATIONS.

STATIONS.			
Reykjavik (18h and 07h) ...	...	...	...
Lisbon (18h and 07h) ...	...	...	...
* Madrid (18h and 07h) ...	...	...	...
Cairo (Heliopolis) (18h and 06h) ...	...	...	...
Toronto (12h and 01h) ...	...	...	...
Washington (12h and 01h) ...	...	...	...

Weather

ning.	Afternoon.	N
24 hrs. ended 9h.		
cz	czmw	bc
m	cmcf	bf
	cmcf	b
	.	
	.	
cz	bc	
c	bcz	
	bc	

Temperature.

Day No.	Night Min. °F.	Min. on Grass °F.
2	30	17
3	27	23
4	28	18
5	30	28
6	31	22
7	31	27
8	31	23
9	30	25

Sun-	Humak
------	-------

shine. to Sunset. hrs.	15h. G.M.T. G %
Yesterday.	
4.1	.
0.0	.
0.1	68
	.
	77
	75
*	.
	66
	.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Atmospheric	
Milligrams of SO ₂ per cubic	
24 hrs. ended 7h.	
SOUTH KEN	
Max.	Time.
KEW OBSERV	
Max.	Time.
1.1	20h 18h

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.

The barometric tendency is expressed in tenths of a millibar.

COLUMNS 8, 22 —Code for surface visibility.

Objects not visible at

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	76
		8	39-46		

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

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.

[‡] Pressure at 1,000 dynamic metres level.

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

‡ Sea disturbance reported from Dunkenes.

TERMS OF SUBSCRIPTION. { Single Copies, 1d. each: by post 1½d.
2/6 per month; 8/6 per quarter; 25/- per year.

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

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

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

SECRET

BRITISH SECTION
Saturday 20th December 1941.

19248

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.					State of Ground. 0-9	Sea. 0-9	WEATHER.																																																																																																																																																																																																		
				Dir.	Force. 0-12					Form.	Amount.	Height of Base. (feet)	Dir.	Force. 0-12			Form.	Amount.					Height of Base. (feet)	7h.—18h. 19h.	18h.—19h. 19h.	19h.—20h. 20h.	20h.—21h. 21h.			21h.—22h. 22h.																																																																																																																																																																																																		
																															Low.	Med.	High	Low	Total 0-10	High	Low	Med.	High	Low	Total 0-10	Height of Base. (feet)																																																																																																																																																																																						
																																											Low.	Med.	High	Low	Total 0-10	Height of Base. (feet)																																																																																																																																																																																
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne Manston	1032.6 1032.4 1032.8 1032.9 1032.6 1031.7 1032.0	+2 -2 -2 -2 -4 -2	SW SSE WS W NW WNW	1 1 2 1 1 1	f cf N N N N	39 39 40 41 42 33 35	92 92 85 92 85 92 97	2 3 5 4 5 0 1	5 - - - - - -	9 9 9 9 10 10 10	9 9 9 9 10 10 10	1033.9 1033.1 1034.1 1034.2 1033.8 1033.2 1033.0	+10 +10 +6 +6 +10 +10 +6	WS SW - - NW WN WN	2 1 0 0 1 0 1	cf f Z Z N F F	41 40 39 43 41 35 39	92 92 97 85 92 97 92	2 3 5 5 4 1 1	- - - - - - -	10 10 9 10 9 10 10	10 4800 9 2400 9 4000 3500 4150	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1

Abridged observations of additional stations in the AVIATION WEATHER CODE																			
13h. G.M.T. 19th Dec. 1st G.M.T.									01h. G.M.T. 20th Dec. 07h. G.M.T.										
III	C	ww	Vh	DDFWN	III	C	ww	Vh	DDFWN	III	C	ww	Vh	DDFWN	III	C	ww	Vh	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	57	02744	20328						
301	02	52508	24258	--	46209	00058	--	44309	12259	--	57109	10159							
321	5-	05568	24228	5-	43248	26158				5-	47348	14148							
299	5-	47238	22258	50	00751	32301				5-	01753	24113							
292	02	51668	22248	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-	41438	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-	02344	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, Nh = Height and amount of low cloud—See M.O. 252.

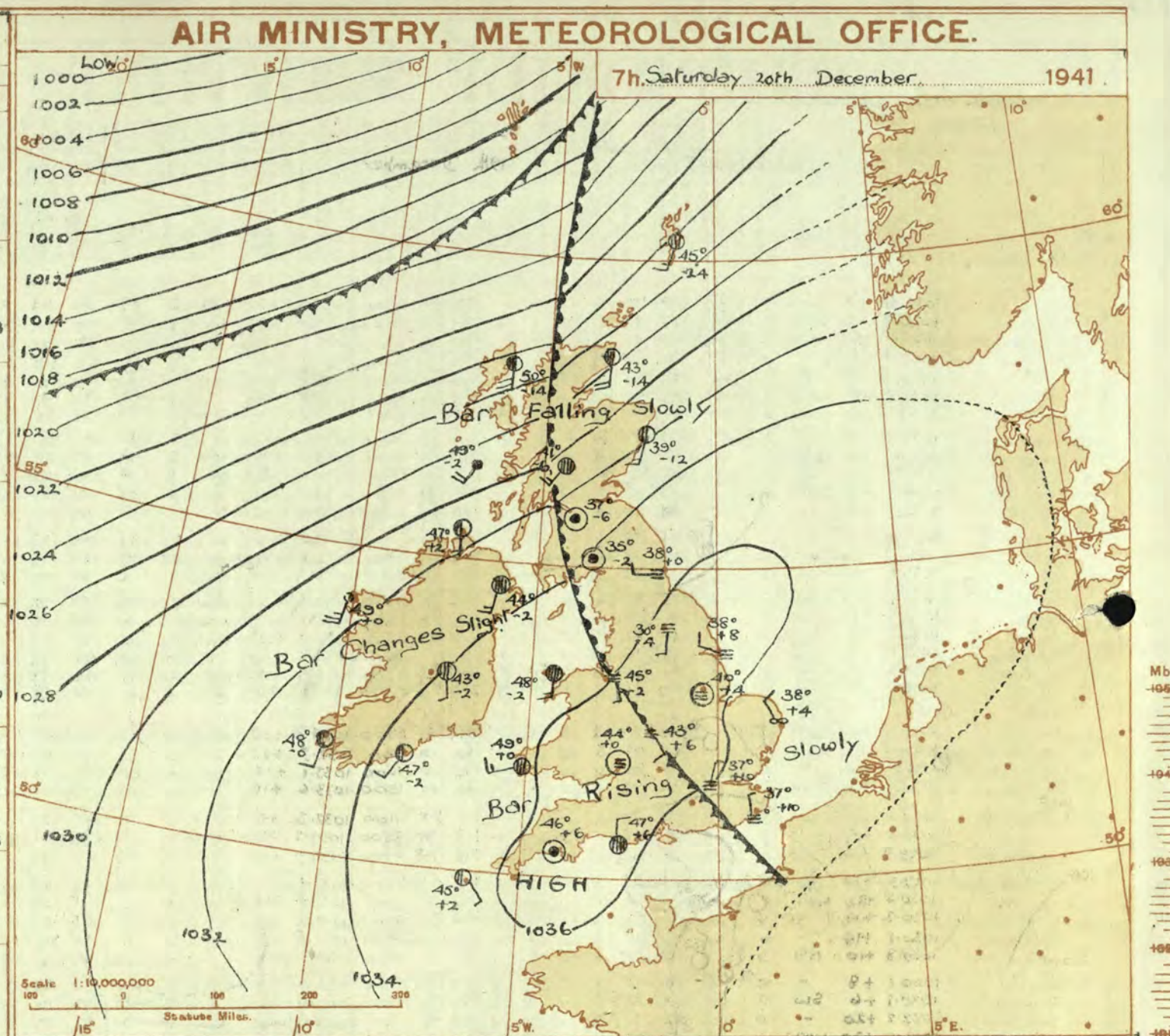
N = Total amount of cloud—See M.O. 252.

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).

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 ...	Light variable wind becoming light westerly; dull with light drizzle locally. some bright intervals; fog in many places especially at night.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Moderate southwest wind, fresh or strong in North; cloudy, slight rain or drizzle; rather mild.
12 S.W. Scotland & Isle of Man.	
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	
17 N. W. Ireland	As 12-13
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
- 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 covers most of England and Ireland. Pressures 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.

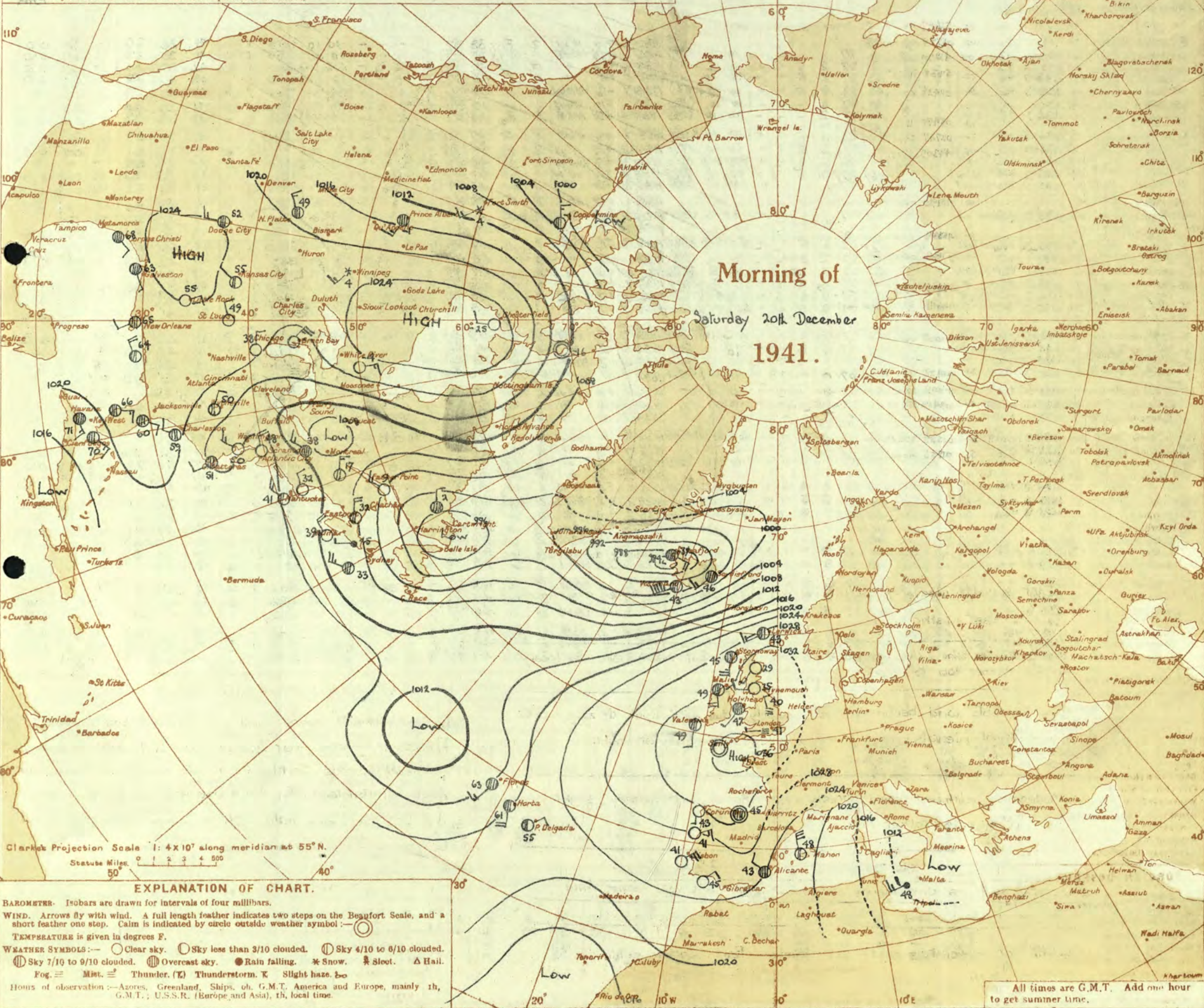
Forecasts issued at 10.30 G.M.T. N. K. JOHNSON, D.Sc., A.R.C.S. Director.
H.M.S.O. Press, Meteorological Office, Dunstable.

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 arctic 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
 Saturday 20th December
 1941.



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

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday 20th December 1941.
No. 29248.

OBSERVATIONS at 1 hr. G.M.T. 20th December														OBSERVATIONS at 7 hr. G.M.T. 20th December														PAST 24 HOURS.										
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					State of Ground.	Sea.	TEMPERATURE.			RAINFALL.			SUNSHINE Hrs.	
					Direc.	Force.					Form.	Amount.	Height of Base (feet).	Direc.	Force.			Form.	Amount.					Height of Base (feet).	Max. Day 7h-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.
1	London (Kew) ...	18	1034.6	+2	W	1	bc	43	97	1	Low	10	10	150	1036.7	+10	NW	2	bc	38	97	1	Low	10	10	150	1036.7	+10	NW	2	bc	41	38	26	-	Tr	0.0	0.0
	Croydon ...	217	1034.6	+2	W	1	bc	41	97	1	Low	10	10	300	1036.8	+12	NNE	1	bc	41	97	1	Low	10	10	150	1036.8	+12	NNE	1	bc	42	39	34	-	0.1	0.0	
	S. Farnborough ...	226	1035.6	+6	W	1	bc	41	97	2	Low	10	10	150	1036.0	+2	W	1	bc	43	97	1	Low	10	10	150	1036.0	+2	W	1	bc	43	40	38	-	0.1	0.0	
	Boscombe Down ...	417	1035.7	+4	W	1	bc	43	97	2	Low	10	10	100	1035.7	+6	NNW	1	bc	44	97	4	Low	10	10	150	1035.7	+6	NNW	1	bc	43	40	23	-	-	*	
	Thorney Island ...	10	1035.3	+6	NW	1	bc	40	97	0	Low	10	10	150	1035.1	+10	NNW	1	bc	37	97	4	Low	10	10	1500	1035.1	+10	NNW	1	bc	37	35	30	-	0.1	0.0	
	Lympne ...	346	1034.0	0	NW	2	bc	40	97	2	Low	10	10	150	1035.4	+6	NNE	2	bc	40	97	4	Low	10	10	1500	1035.4	+6	NNE	2	bc	39	38	33	-	0.1	0.0	
	Manston ...	154	1034.3	+2	NNW	2	bc	43	97	2	Low	10	10	150	1035.4	+6	NNE	2	bc	40	97	4	Low	10	10	1500	1035.4	+6	NNE	2	bc	39	38	33	-	0.1	0.0	
2	Shoeburyness ...	11	1034.5	+6	W	1	bc	43	92	1	Low	10	10	150	1035.7	+8	NNE	2	bc	37	92	5	Low	10	10	2500	1035.7	+8	NNE	2	bc	41	37	27	-	-	0.0	
	Felixstowe ...	15	1034.5	+6	NW	2	bc	43	97	3	Low	10	10	1700	1035.6	+2	NW	2	bc	37	85	5	Low	10	10	1500	1035.6	+2	NW	2	bc	41	36	31	-	0.1	0.2	
	Gorleston ...	5	1034.2	+10	NW	2	bc	44	85	6	Low	7-8	7-8	1500	1035.3	+4	NW	2	bc	38	97	5	Low	10	10	1500	1035.3	+4	NW	2	bc	41	36	35	-	-	*	
	Mildenhall ...	19	1035.3	+14	NW	2	bc	41	97	3	Low	10	10	1800	1036.2	+2	NW	2	bc	33	97	1	Low	10	10	1500	1036.2	+2	NW	2	bc	42	32	32	-	0.3	0.0	
	Cranwell ...	240	1036.0	+10	NW	2	bc	47	97	1	Low	10	10	1500	1036.3	+4	W	1	bc	40	97	2	Low	10	10	1500	1036.3	+4	W	1	bc	48	35	32	-	0.2	0.3	
3	Birmingham ...	535	1035.5	+6	W	1	bc	42	97	1	Low	10	10	1500	1036.1	+6	SE	2	bc	43	97	1	Low	10	10	1500	1036.1	+6	SE	2	bc	46	43	40	-	1	0.5	
	Upper Heyford ...	408	1035.5	+6	W	1	bc	42	97	1	Low	10	10	1500	1036.6	+10	E	1	bc	41	97	3	Low	10	10	1500	1036.6	+10	E	1	bc	45	41	41	-	Tr	*	
	Ross-on-Wye ...	223	1035.5	+6	W	1	bc	42	97	1	Low	10	10	1500	1035.9	0	W	1	bc	44	97	1	Low	10	10	1500	1035.9	0	W	1	bc	46	43	41	-	0.2	0.4	
5	Hartland Point ...	299	1035.9	+8	NW	2	bc	47	92	8	Low	2-3	7-8	2500	1035.8	+4	SSE	1	bc	46	92	8	Low	10	10	2500	1035.8	+4	SSE	1	bc	48	46	45	-	Tr	0.4	
	Bristol ...	209	1036.1	+6	W	1	bc	44	97	2	Low	10	10	1200	1036.1	+4	W	1	bc	44	97	2	Low	10	10	3100	1036.1	+4	W	1	bc	47	42	39	-	0.5	0.8	
	Portland Bill ...	32	1035.1	+6	NNW	2	bc	46	92	7	Low	3	3	4000	1035.4	+6	N	2	bc	47	92	7	Low	10	10	2500	1035.4	+6	N	2	bc	48	44	44	-	-	*	
	Plymouth ...	82	1036.2	+6	W	1	bc	45	97	4	Low	3	3	2000	1036.7	+6	W	1	bc	46	97	5	Low	10	10	1000	1036.7	+6	W	1	bc	49	44	36	-	Tr	0.1	
	The Lizard ...	240	1036.2	+4	NNE	2	bc	45	85	8	Low	7-8	7-8	1500	1036.6	+8	NE	2	bc	45	85	8	Low	10	10	1500	1036.6	+8	NE	2	bc	51	42	42	-	-	1.6	
	Scilly (St. Mary's) ...	163	1035.9	0	W	1	bc	45	85	8	Low	4-6	7-8	1500	1035.7	+2	SE	1	bc	45	85	8	Low	10	10	1500	1035.7	+2	SE	1	bc	51	41	41	-	-	0.0	
	Guernsey ...	175	1035.9	0	W	1	bc	45	85	8	Low	4-6	7-8	1500	1035.7	+2	SE	1	bc	45	85	8	Low	10	10	1500	1035.7	+2	SE	1	bc	51	41	41	-	-	0.0	
6	Pembroke ...	142	1036.0	+6	W	1	bc	48	97	7	Low	4-6	7-8	2500	1035.9	0	W	1	bc	49	85	8	Low	10	10	2500	1035.9	0	W	1	bc	50	42	42	-	Tr	0.3	
7	Holyhead (Valley) ...	26	1034.5	+6	SSW	1	bc	47	97	6	Low	10	10	1200	1034.4	-2	S	3	bc	48	92	7	Low	10	10	1100	1034.4	-2	S	3	bc	49	46	45	-	1	0.2	
	Chester (Sealand) ...	16	1035.7	+10	W	1	bc	46	97	1	Low	10	10	1500	1035.6	-2	SSE	1	bc	45	97	2	Low	10	10	1500	1035.6	-2	SSE	1	bc	49	45	40	-	Tr	0.6	
8	Manchester ...	235	1035.9	+10	W	1	bc	42	97	2	Low	10	10	1500	1035.7	0	W	1	bc	43	97	4	Low	10	10	1500	1035.7	0	W	1	bc	43	40	39	-	0.4	0.2	
10	Spurn Head ...	29	1035.3	+14	NW	1	bc	40	97	0	Low	0	0	-	1036.2	+8	WNW	2	bc	38	97	1	Low	10	10	1500	1036.2	+8	WNW	2	bc	45	35	35	-	0.4	Tr	
	Catterick ...	175	1036.6	+6	W	1	bc	41	97	3	Low	0	0	-	1036.3	-4	W	1	bc	30	97	3	Low	10	10	1500	1036.3	-4	W	1	bc	47	27	21	-	Tr	0.0	
	Tynemouth ...	108	1035.1	+10	W	2	bc	35	97	5	Low	0	0	-	1034.7	0	W	2	bc	38	97	3	Low	10	10	1500	1034.7	0	W	2	bc	48	34	31	-	0.6	*	
11	St. Abbs Head ...	280	1034.0	+8	SW	4	bc	39	85	8	Low	2-3	2-3	2500	1032.8	0	SSW	4	bc	39	85	7	Low	10	10	2500	1032.8	0	SSW	4	bc	48	36	36	-	-	*	
	Leuchars ...	36	1033.9	-2	W	1	bc	32	97	4	Low	0	0	-	1032.7	-6	W	1	bc	34	97	5	Low	10	10	1300	1032.7	-6	W	1	bc	49	31	26	-	-	4.9	
12	Renfrew (Abbots L.) ...	19	1034.1	-4	W	1	bc	29	97	1	Low	10	10	1500	1032.6	-6	W	1	bc	37	97	4	Low	10	10	1000	1032.6	-6	W	1	bc	47	26	22	-	0.1	0.3	
	Eskdalemuir ...	794	1034.1	-4	W	1	bc	29	97	1	Low	10	10	1500	1034.5	-2	W	1	bc	35	92	2	Low	10	10	1500	1034.5	-2	W	1	bc	48	36	19	-	0.4	0.5	
	Point of Ayre ...	30	1034.3	+10	W	1	bc	45	92	8	Low	4-6	4-6	2000	1034.0	-2	SW	1	bc	47	97																	

AIR
MINISTRY.THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET
Sunday 21st December 1941.
No 29249

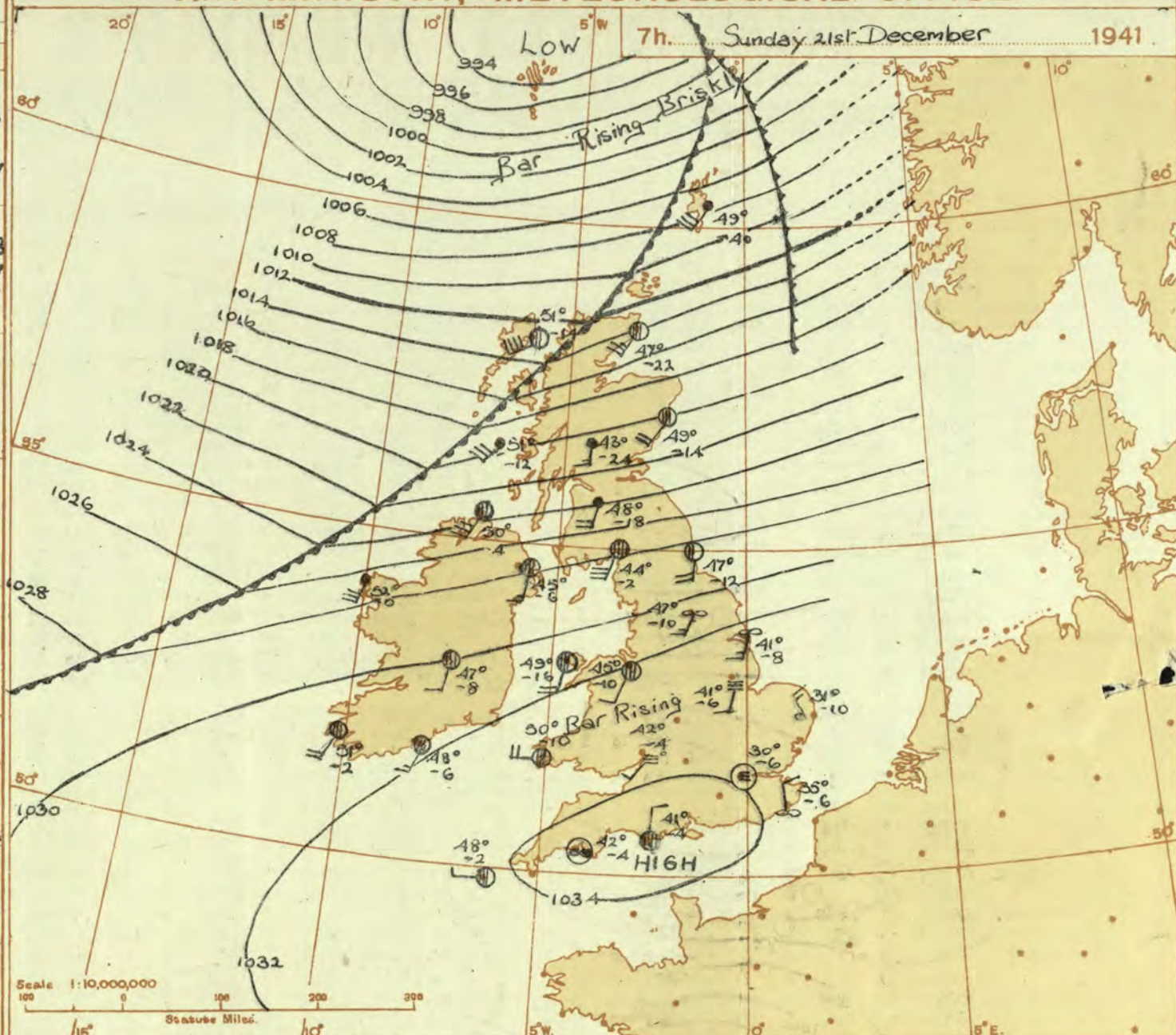
OBSERVATIONS at 13h. G.M.T. 20th December														OBSERVATIONS at 18h. G.M.T. 20th December														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				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.				Barom. at M.S.L. mb. (29)	State of Ground. 0-9 (30)	WEATHER.								
				Dirac. (3)	Force. (4)					Form.	Amount. Low Med. High	Height of Base. (feet) (14)	Form.			Amount. Low Med. High	Height of Base. (feet) (28)					7h.—13h. 20th	13h.—18h. 20th	18h.—21st 20th	1h.—7h. 21st											
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lymington ... Manston ...	1036.6 1036.4 1037.0 1036.5 1036.0 1034.7 1036.5	-6 -2 -6 -8 -2 -14 -2	N N N N N N N	1 0 1 1 1 2 3	F F M Z Z Z Z	39 38 39 45 44 44 41	97 97 97 85 85 85 97	1 1 4 5 6 6 5	- - - 1 4 - -	10 10 10 10 10 4-6 9+	1500 1500 500 1500 4000 1200 1500	1036.5 1035.5 1036.2 1036.4 1035.8 1034.9 1035.4	+4 -2 -2 +8 -2 0 +2	N N N E N N N	1 1 1 2 2 2 2	m of m F F m m	38 37 36 36 35 38 41	97 97 97 97 92 97 92	4 2 4 4 5 4 4	S - - - - - - -	9+ 10 10 10 0 7-8 9+	3+ 10 10 10 0 7-8 9+	2500 900 300 1500 - 100 800	1 1 1 1 1 1 *	*	OfFe OfE bcmofm bcm bcmo bcm bcm	bcm OfE om bcF bcm bcm	cmf om cmfo FF bcm cm	ofF ofF ofwFe cf ofcm ofcm	20th 20th 1st 21st					
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1036.1 1036.1 1035.7 1037.2 1036.9	-4 -2 -4 -6 -2	NNW NNW NNW - WSW	3 3 3 0 1	F F F F Z	38 37 38 35 39	97 97 92 97 97	1 1 1 1 5	- - - - -	10 9+ 10 10 10	1500 100 1500 1500 500	1036.0 1036.0 1035.3 1036.2 1034.9	+2 +2 0 -2 -10	NE NW NW - S	2 3 2 0 0	F F F dF of	36 36 38 34 40	97 97 97 97 97	1 2 2 1 2	- - - - S	10 10 10 10 10	1500 1500 1500 1500 1800	1 1 1 1 1	*	bmo OfCF bcmFF OfFe Ofecm	FfF Fof Ffe OfOf Ofed	Fefe ofefcm OfOf OfOf Ofed	off bffFx bjfcbx bfxbcmx ozff	20th 20th 1st 21st						
3	Birmingham Upper Heyford	1036.5 1036.5	-6 -6	- SW	0 1	Of F	43 38	97 97	2 1	- -	10 10	450 1500	1035.5 1035.7	-4 -2	S -	1 0	F F+	44 38	97 97	1 1	- -	10 10	1500 1500	1 1	*	Fof cfmof	o of	odofm cfOf	oc Of	20th 20th 1st 21st						
4	Ross-on-Wye ...	1036.0	-6	WSW	1	Of	47	92	5	S	-	10	1500	1035.0	0	SSE	1	m	45	97	4	S	7	-	7-8	3+	2000	1	*	Fof	czcm	cmom	20th 20th 1st 21st			
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Silly (St. Mary's) Tynemouth ...	1036.5 1036.3 1035.7 1036.6 1036.7 1035.8 1035.8	-4 -10 -6 -6 -10 +8	NNW NNW ENE NNE NNE S	2 0 2 3 2 1	C m O Z Z C	48 46 47 48 48 51	97 97 92 96 85 85	9 4 5 6 8 8	8 - - - 2 4	6 - - - - -	4-6 10 10 2-3 9+ 9+	1200 800 2500 3500 2000 1500	1035.7 1035.9 1035.0 1036.1 1035.7 1035.0	+4 -2 +2 +6 -2 +2	SE - NE E NE SSE	1 0 2 1 3 2	bc of Z Z bc bc	45 43 44 43 45 48	85 85 92 97 75 85	8 5 5 5 8 8	2 - - - - 3	6 - - - - -	1 3+ 10 7-8 2-3 4-6 2-3	3000 2100 1500 2500 4000 2500 1500	1 0 1 1 2 1 1	2	c cmfmd Ofd cidof	bc ofF ofF cmfof	bcc c,b cfbcb Fdo	c cbcc cf ofcmo	20th 20th 1st 21st				
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	20th 20th 1st 21st
7	Holyhead (Valley) Chester (Sealand)	1034.7 1035.6	-10 -10	SW SES	3 2	C Of	49 46	85 97	8 3	5	-	-	9 10	800 3500	1034.3 1034.9	+2 +2	SW SE	2 1	C F	49 43	85 97	8 0	- -	- -	9+ 10	3+ 10	2100 1500	0 1	2	cmfmd Ofd	bc ofF	c,b cfbcb	cbcc cf	20th 20th 1st 21st		
8	Manchester ...	1036.0	-10	SW	2	Of	44	97	4	S	-	-	9+	9+	2500	1035.4	+2	SW	3	F+	43	97	1	-	-	10	10	1500	1	*	cidof	cmfof	Fdo	ofcmo	20th 20th 1st 21st	
10	Spurn Head ... Catterick ... Tynemouth ...	1036.8 1035.7 1034.1	+8 -14 -8	N SW WSW	2 2 3	F+ cf- cf	39 37 42	92 97 92	2 2 3	- S S	- - 3	- 9+ 4-6	10 1200 2000	1035.3 1034.0 1032.7	-4 -4 +2	S SSE SW	3 2 3	F+ F bc	38 36 41	97 97 92	1 0 3	- - 2	- - 4	10 10 2-3	10 10 4-6	1500 1500 2000	1 1 1	3	ff FFc ocff	off cfOf cbcff	om ofcm bfff	o cmo cbc	20th 20th 1st 21st			
11	St. Abbs Head Leuchars ...	1030.3 1030.9	-16 -18	SW -	5 0	C m	45 44	97 97	7 4	S 7	4 -	7-8 10	2500 1800	1029.9 1029.5	-4 -6	SW WSW	5 3	bc Z	46 45	85 92	7 5	4 5	4 -	1 10	2-3 1200	2500 1200	0 1	3	c bmacidm	cpc cmcm	bc idomac	c c	20th 20th 1st 21st			
12	Rentfrew (Abbots L.) Eskdalemuir ... Point of Ayre ...	1034.9 1033.2 1034.1	-6 -6 -2	SW SSW W	3 3 3	Z F C	48 43 51	85 97 85	6 1 8	- - S	- - 3	- 10 2-3	9+ 10 7-8	1200 1500 3000	1030.8 1032.2 1033.4	-6 -2 0	SW SW W	2 3 3	Z dof C	46 43 47	85 97 92	6 5 8	- 2 1	- 10 9	10 10 10	1000 220 2000	1 1 1	2	cmfmd Ofdof idac	cm Ofd	cmo Ofd	cmoida oidoc C	20th 20th 1st 21st			
13A	Tiree ...	1028.0	0	SW	4	O	49	85	7	S	-	-	10	10	1500	1026.1	-8	SSW	5	dd	47	97	7	-	2	-	10	10	1500	1	5	o	odr	cid	oid	20th 20th 1st 21st
13B	Stornoway ...	1025.4	+8	SW	6	C	51	92	7	S	2	-	7-8	9+	1000	1022.4	-18	SSW	7	C	49	97	7	5	2	-	9	10	900	1	4	crro	cid	id	cid	20th 20th 1st 21st
15	Dalwhinnie ... Aberdeen ... Wick ...	1030.4 1028.6 1025.0	-2 -12 -10	SSW SW SW	3 1 5	id bc ir	43 42 47	92 92 85	6 6 8	S S S	- 2 9	- 7 4-6	10 2800 1000	1029.2 1026.6 1023.5	-14 -18 -8	SW W SSW	4 1 2	C bc C	42 45 46	92 85 85	7 5 8	5 5 7	2 - -	9 4-6 0	10 46 9+	1500 2300 -	1 2 1	*	oid cbcz cjr	cid bczo cjr	id bczo cjr	cid bcx cjr	20th 20th 1st 21st			
16	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	cdoromo	dofc	ccirc	cidododo	20th 20th 1st 21st	
17	Blackad Point ...	1029.3	-8	SW	5	O	51	92	8	5	-	-	9	9	1500	1028.2	-6	S	5	pr	51	85	7	5	-	9+	9+	1500	1	4	c	pr	bc	r	20th 20th 1st 21st	
18	Malin Head ... Aldergrove ...	1029.3 1033.3	-12 -6	S SW	5 3	C Z	47 43	85 97	8 6	S S	- -	- 10	7-8 10	1500 200	1028.2 1032.4	-10 -4	S S	4 3	C C	48 43	85 97	8 7	5 7	- -	7-8 4-6	7-8 9	2500 3500	1 1	*	bc cmac	c d.dmac	c c	c cmobcc	20th 20th 1st 21st		
19	Birt Castle ...	1033.4	-6	S	2	C	48	85	8	5	1	-	7-8	10	2500	1032.4	+2	S	2	C	47	85	8	5	1	-	7-8	10	2500	1	*	bc	bc	ff	c	20th 20th 1st 21st
20	Valentia Obay.† Roches Point ...	1032.6 1034.2	-4 -10	SW S	4 4	C C	50 49	85 85	8 8	8 5	- -	- 7-8	9 7-8	2500 2500	1032.4 1034.4	+2 +6	SW SSW	4 4	ir C	45 49	85 85	8 8	1 1	- -	9+ 4-6	9+ 1500	2500 1500	1 1	4	pr bc	pr bc	ff r	c c	20th 20th 1st 21st		

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 20th December				01h. G.M.T. 21st December				07h. G.M.T.			
III	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h	DDFWN	C ₁	wwVhN _h
109	52	21645	19458	57	02754	20625	52	03744	19428	5-	61748
115	52	81735	20588	52	81735	20608	52	14035	87788	52	81635
203	6-	22828	16668	6-	62828	16668	5-	02838	19268		
206	52	22855	20367	53	02955	53667	5-	02856	53626	5-	22857
210	57	02963	53428	57	02953	19467	57	02866	53528	50	01863
220				52	58636	23558				51	02434
230	52	02847	18228	57	21754	18258	5-	02748	1828	5-	52648
245	57	05556	26258	57	05554	26316	52	05654	53518	57	02863
260	70	02752	18228	5-	02747	21317	5-	02768	22358	5-	12757
278	5-	02848	14328	5-	61738	21268	5-	02858	18268	5-	02754
279	53	05644	18425	5-	52548	20458	5-	05658	22528	5-	02768
285	23	05634	30426								
288	53	41454	18248	00	45220	18240	5-	05557	20227	5-	02757
5755	5-	51638	14158	5-	21848	18258	5-	51638	18358	5-	02748
301	--	21209	16257	5-	45258	15248	52	21555	18257	5-	05665
321	5-	08435	12148	5-	47248	16248	5-	43348	16148	5-	08458
290	5-	08448	23228				--	46169	20249		
292	03	47330	00048	--	43209	13249	5-	05548	18248	5-	05547
310											
614	53	45345	24147	5-	47258	20148	--	43009	00049	--	44109
333	5-	02735	16557	5-	02847	00017	5-	01865	20315	51	02874
334	--	53437	02258	--	01762	02203					
340	--	57203	14153	--	48109	00049	5-	41648	00058	5-	05658
136	--	46109	00049	--	57109	00059	5-	43348	16158		
336	52	41544	28348	54	01753	24315					
350	--	46009	18149	--	46109	00059	5-	47268	14248	5-	47168
308	5-	05557	02157	5-	45348	23198	50	43353	30143	5-	43238
379	5-	08428	18128	--	46109	00049	--	46109	00049	--	46109
390	--	46109	30249	--	48109	32149	--	46109	20149	--	48009
382	5-	05538	22128	--	48109	00049	5-	43318	00048	5-	05528
438	50	00681	32301							50	01663
430	50	05621	23212	00	05590	32111	00	45320	02140	00	43230
409	5-	02966	02427	50	00861	04111	5-	02768	09118	5-	02768

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. 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 ...	
8 N.W. England	Moderate S.W. winds, fresh or strong locally on coasts veering W. and decreasing. Mainly cloudy. Occasional rain. Rather mild.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	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.
13A. W. Scotland	
13B. N.W. Scotland	Rather mild, becoming colder in the North.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	As 7-10.
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
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.

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

▼ Gale warning 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.

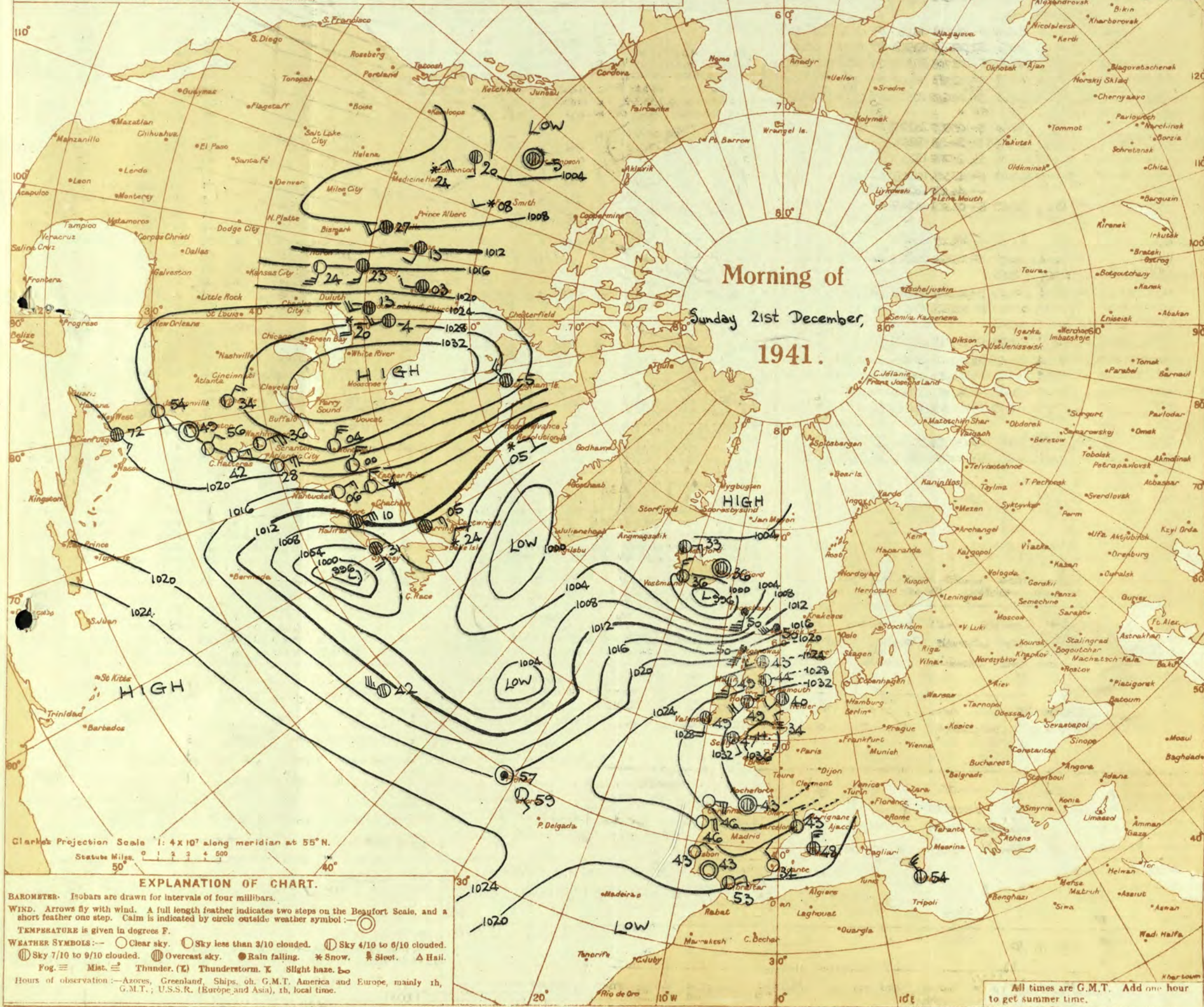
Forecasts issued at 10.30h. G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



AIR
MINISTRY.THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.BRITISH SECTION
Sunday 21st December 1941.
No. 29249

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.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visiblity.	Cloud.					Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visiblity.	Cloud.					State of Ground.	Sea.	TEMPERATURE.					RAINFALL.					SUNSHINE 24 Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
					Direc.	Force.					Low.	Med.	High.	Low 0-10.	Total 0-10.			Height of Base (feet).	Direc.					Force.	Low.	Med.	High.	Low 0-10.			Total 0-10.	Height of Base (feet).	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
																																						0-12.	0-12.	0-9.		0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.	0-9.

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

Monday, 22nd December 1941.
No. 29250.

OBSERVATIONS at 13h. G.M.T. 21st December														OBSERVATIONS at 18h. G.M.T. 21st 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. 0-10 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-10 (22)	Cloud.					Barom. at M.S.L. mb. (29)	Change in 3 hours. (30)	WEATHER.					
				Dir.	Force. 0-12 (4)					Form.	Amount. 0-10 (12)	Height of Base. (feet) (14)	Dir.	Force. 0-12 (18)			Form.	Amount. 0-10 (26)					Height of Base. (feet) (28)	7h.—13h. 21st (37)	13h.—18h. 21st (38)	18h.—21st 22nd (39)	1h.—7h. 22nd (40)								
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1033.1 1032.7 1034.0 1033.6 1033.6 1032.9 1033.5	-18 -20 -14 -10 -10 -10 -10	SSW SSW - WS WS WNW -	2 1 0 1 0 1 0	cf z cf z z cf cf	32 46 41 42 43 43 36	3 5 6 5 6 6 3	5 5 5 5 4 3 5	9 2 3 - 2 1 3	3+ 4-6 3+ 3+ 2-3 7-8 9	4000 3500 3700 3500 4000 3500 2800	1031.9 1032.0 1032.5 1032.9 1033.1 1032.8 1032.5	-2 -2 -2 +2 -2 -2 -2	SW S SW - - SW SW	1 2 1 - - 1 2	bcf S z m m m m	33 39 41 42 42 36 38	92 85 92 97 85 92 85	3 4 6 4 5 4 4	5 - 3 - - 5 -	4-6 2-3 4-6 10 10 2-3 10	2500 3000 4000 5000 3800 5000 3800	1 1 1 1 1 1 1	2 2 2 2 2 2 2	FeFe Fbcl ofwecm cm bcm cmac cmacOff	bccl bczcm cm cm cm cm cm	cfcm cf bcm cm cm cm cm	cmirm cmirm cmirm cmirm cmirm cmirm cmirm						
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1033.1 1032.7 1032.5 1032.5 1031.0	-18 -14 -18 -14 -14	NW SWW WS SW SW	1 3 2 2 3	F z z z m	37 43 43 42 46	97 5 6 6 4	1 5 - 5 5	- 2 4 3 -	10 4-6 0 3+ 10	1500 4000 - 2500 3000	1032.1 1031.6 1030.6 1031.0 1030.0	-2 -6 -18 -4 0	SW SWW SWW SW SW	1 3 2 3 4	m cf z m m	41 39 41 40 44	85 85 85 97 85	4 3 6 4 4	5 - - - -	10 9 0 0 0	2500 3000 - - -	1 1 0 0 0	2 2 2 2 2	FeFe bcm bcm bcm bcm bcm	ofcm cm cm cm cm	ofcm ofcm ofcm ofcm ofcm	ofcm ofcm ofcm ofcm ofcm						
3	Birmingham Upper Heyford	1031.8 1032.6	-12 -14	WSW SW	3 2	C m	46 43	85 97	6 4	5 5	7 -	1 3+	800 2500	1031.0 1031.6	-2 -4	WSW SSW	2 2	C bf	48 4	85 97	6 3	5 -	3 -	9+ 0	2500 -	1 1	2 2	C Ofcm	C cm	C cm	C cm				
4	Ross-on-Wye ...	1032.2	-10	SW	3	z	47	85	5	5	-	10	10	2500	1031.9	0	WSW	2	z	46	85	5	5	-	10	10	2500	1	2	C cm	C cm	C cm	C cm		
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Soilly (St. Mary's) Guernsey ...	1033.0 1033.1 1032.6 1034.1 1034.1 1032.8	-6 -2 -18 -6 -4 -4	W W S SE NNW WN	1 1 2 2 2 1	z z C C C C	48 45 47 47 48 50	85 92 85 85 85 92	8 6 2 4 8 8	5 5 2 5 5 8	4 - - - - -	4-6 3+ 10 10 9+ 10	1200 4000 4000 3500 1500 1500	1032.9 1033.0 1033.0 1034.0 1034.0 1033.4	+2 +2 +8 +2 +4 0	SSW WS W W - N'W	2 2 2 2 - 2	C z C C C C	47 45 48 47 46 48	92 92 92 85 92 85	8 6 7 5 8 8	5 - - - - -	9+ 10 10 10 7-8 9+	2500 3000 2500 3000 1500 1200	1 1 1 1 0 1	3 3 2 1 3 2	C cm cm cm cm cm	C cm cm cm cm cm	C cm cm cm cm cm	C cm cm cm cm cm					
6	Pembroke	1032.3	-8	WSW	4	C	50	85	8	8	6	-	7-8	9	2500	1032.1	0	WS	5	C	50	97	8	8	-	9+	9+	2500	1	3	C cm	C cm	C cm	C cm	
7	Holyhead (Valley)	1029.7	-16	SWW	5	0	50	85	9	5	-	10	10	3000	1029.4	+2	WSW	3	dod	49	97	6	5	2	-	9	10	1800	1	3	C cm	C cm	C cm	C cm	
8	Chester (Sealand)	1029.9	-14	SWW	2	z	50	75	6	5	-	2	9	3+	2500	1029.4	-2	WS	2	z	50	75	6	5	-	9+	9+	3400	1	2	C cm	C cm	C cm	C cm	
10	Manchester ...	1030.2	-14	SSW	4	C	47	85	7	5	-	7-8	10	3000	1029.6	-2	SW	2	C	46	92	6	5	-	10	10	3500	1	2	C cm	C cm	C cm	C cm		
10	Spurn Head ... Catterick ... Tynemouth ...	1030.0 1026.7 1025.9	-18 -22 -10	SW WSW SW	3 4 4	z C z	44 50 50	92 75 85	5 8 6	7 2 8	2 9 -	4-6 2-3 9+	7-8 2000 2500	1028.4 1027.1 1025.6	-6 0 0	SWW WS W	4 4 4	z C z	45 49 50	85 85 85	8 8 6	5 7 -	- - -	2-3 2-3 7-8	2-3 2500 2500	1 1 1	3 3 3	C cm cm	C cm cm	C cm cm	C cm cm				
11	St. Abbs Head Leuchars ...	1021.8 1020.7	+10 -8	W WSW	5 6	C C	50 49	85 92	8 7	5 5	7 8	- 7-8	7-8 3+	2500 1200	1022.0 1022.5	-4 +10	W W	4 3	bc bc	49 46	85 85	8 8	4 3	- -	2-3 Tr	4-6 2-3	2500 2000	0 1	3 2	C cm	C cm	C cm	C cm		
12	Renfrow (Abbots L.) Bakdalemuir ... Point of Ayre ...	1023.4 1024.8 1026.9	-2 -10 -8	SWW SWW W	4 5 6	z dod ro	50 45 43	92 97 92	6 5 7	5 - 6	5 2 -	3+ 10 10	1200 220 2500	1025.1 1025.2 1027.3	+10 +4 +4	SWW WSW WN	4 3 5	z C ro	49 47 50	75 85 97	8 7 7	5 5 6	- - -	9+ 7-8 9	2700 800 1500	1 1 1	2 3 3	C cm cm	C cm cm	C cm cm	C cm cm				
13A	Tiree ...	1024.4	+8	WNW	4	C	50	85	7	8	-	7-8	7-8	1500	1025.6	+6	WNW	3	bc	48	85	7	5	-	4-6	4-6	2500	0	4	C cm	C cm	C cm	C cm		
13B	Stornoway ...	1017.3	+14	WSW	6	C	49	92	8	5	7	-	7-8	9+	2000	1020.9	+16	WSW	5	C	46	92	7	5	7	-	4-6	9+	2500	1	2	C cm	C cm	C cm	C cm
15	Dalwhinnie ... Aberdeen ... Wick ...	1021.3 1018.0 1014.9	+6 +14 -14	WSW WS W	4 3 5	id C C	46 49 51	85 85 65	8 8 9	8 7 5	- 9 -	- 1 7-8	- 2200 2500	1024.2 1020.9 1017.9	+8 +16 +18	WSW W WN	4 3 6	bc bc bc	43 49 46	85 75 85	8 6 8	8 7 3	- 7 -	- Tr 2-3	4-6 4-6 2-3	2500 2400 3000	1 1 1	2 2 2	C cm cm	C cm cm	C cm cm	C cm cm			
16	Sumburgh ...	1006.3	-6	W	8	dod	49	92	6	5	-	10	10	1000	1012.8	+56	WNW	7	ro	47	85	6	5	-	10	10	800	1	6	C cm	C cm	C cm	C cm		
17	Blackad Point...	1027.0	+2	WSW	4	DR	52	97	6	6	-	10	10	800	1028.8	+12	WN	2	C	49	97	7	5	-	9+	9+	1500	1	2	C cm	C cm	C cm	C cm		
18	Malin Head ... Aldergrove ...	1025.2 1026.8	+8 -10	W SW	3 3	C id	50 48	97 92	7 7	6 5	- 2	9 9	1500 1000	1026.9 1028.0	+14 +10	W WS	1 1	bc z	48 48	92 97	8 6	2 5	- -	2-3 9	2-3 2100	4000 -	1 1	5 2	C cm	C cm	C cm	C cm			
19	Birr Castle ...	1029.6	-2	SSW	2	C	51	85	8	5	3	-	4-6	7-8	2500	1029.2	+2	SSW	1	ro	49	97	7	5	-	10	10	2500	1	2	C cm	C cm	C cm	C cm	
20	Valentia Obsy. † Roches Point ...	1031.4 1031.9	-2 -6	SW SSS	4 3	C C	53 52	85 85	8 8	8 5	- -	3+ 3+	4000 1500	1031.7 1032.3	+6 +6	SW SW	4 3	C C	53 50	85 92	7 8	5 5	- -	9 9+	4000 1500	1 1	4 2	C cm	C cm	C cm	C cm				

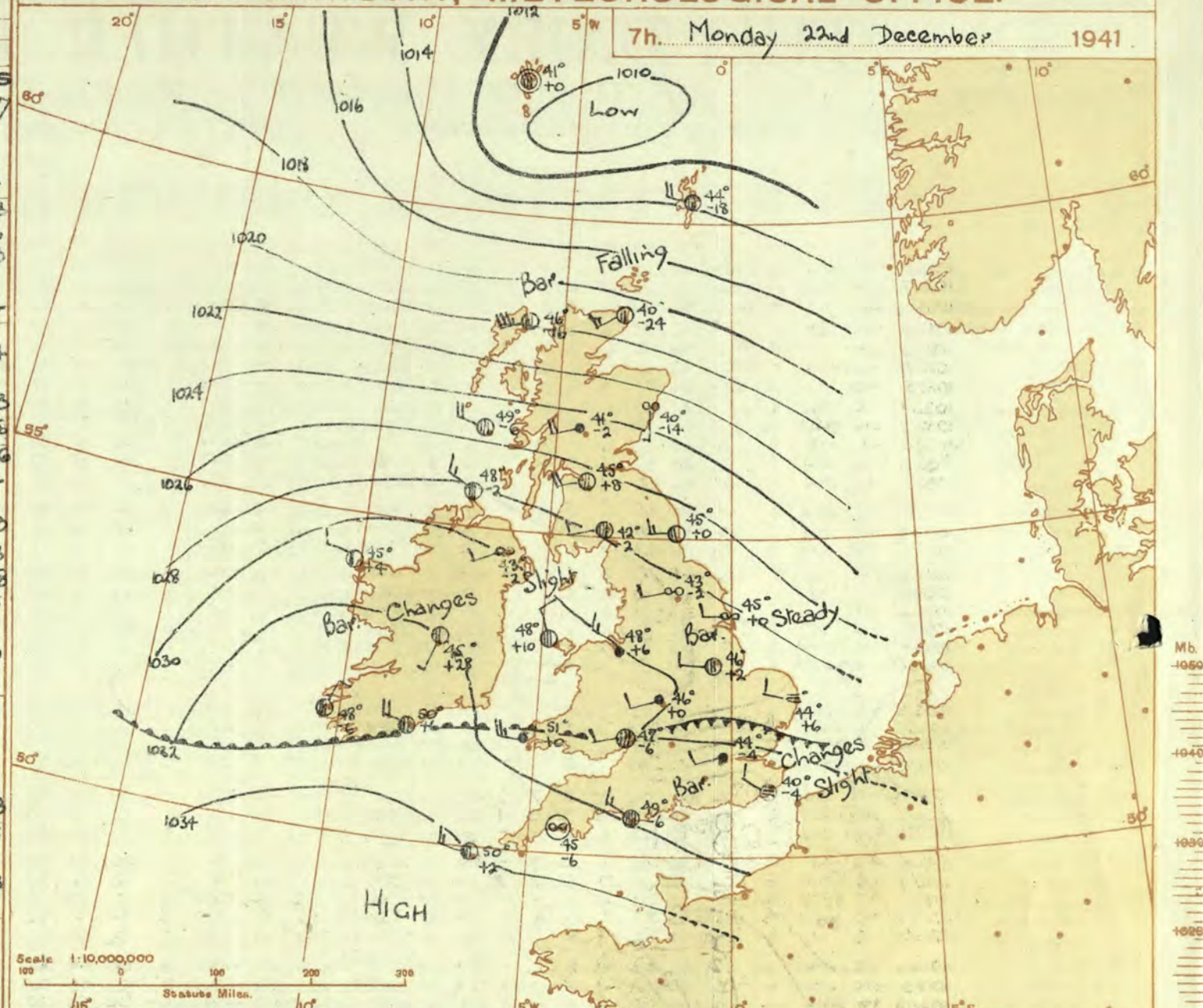
Abridged observations of additional stations in the

AVIATION WEATHER CODE

13h. G.M.T.	21st December	18h. G.M.T.	01h. G.M.T.	22nd December	07h. G.M.T.
III 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	5- 61647 36867	8- 25665 59785	80 01744 24524	3- 38645 25685	
115	52 81735 91888	52 81844 91786	54 81844 91685	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 05634 20318	50 05661 21311	
278	52 61834 21468	5- 21747 24257	50 01854 24315	50 21854 25354	
279	5- 52648 53458	5- 05644 20358	50 05652 22302	5- 01764 21314	
285				50 01744 28414	
288	53 02854 10325	57 02854 26327	50 05663 18213	5- 02867 17117	
575	52 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- 01867 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 22218	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 18158	50 08443 20243	5- 41568 20348	5- 21658 22258	
390	-- 40003 22149	50 43164 20244	5- 43268 00048		
362	5- 51537 22217	53 45384 22244	5- 05567 22227	5- 53558 24228	
438	50 01764 32314			8- 02755 24225	
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.
 C₁, C₂ = 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	Freshening 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.

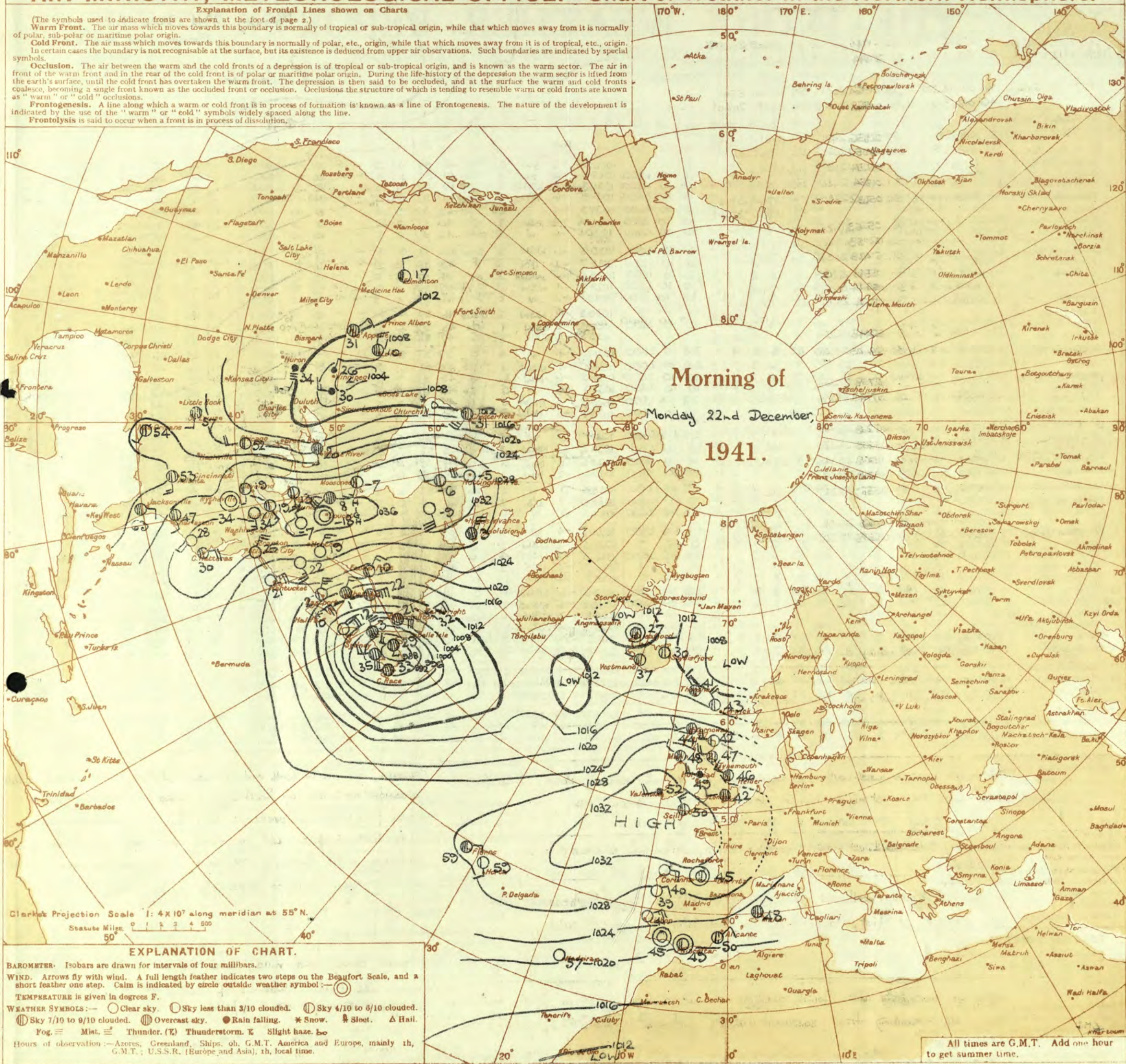
FURTHER OUTLOOK.
 Mainly cloudy and mild; much fog in the South, occasional rain in the North. Warning of southwest gale issued for districts 13, 15, 16 at 0740 22/12/41.

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
 ...Monday 22nd December 1941.
 No. 22250

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. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.		Sun- shine Hrs. (38)			
					Direc. (3)	Force. (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Direc. (17)	Force. (18)			Form. (23)	Amount. (24)					Height of Base. (feet) (25)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)			Night 18h-7h mm. (35)								
																																Low. (12)	Med. (13)	High (14)	Low. (26)		Med. (27)	High (28)	
1	London (Kew)	18	1021.5	-2	WSW	2	m	42	97	4	S	-	-	10	10	6500	1020.8	-2	SW	2	o	43	97	4	S	-	-	10	10	2500	1	*	41	38	26	Tr	Tr	0.0	
	Croydon	217	1021.5	-2	WSW	2	m	42	97	4	S	-	-	10	10	6500	1020.4	-4	SW	2	o	43	97	4	S	-	-	10	10	2000	1	*	47	36	33	Tr	Tr	2.4	
	S. Farnborough	226	1032.0	-4	-	0	0	41	97	3	S	-	-	10	10	4500	1031.3	-2	WSW	1	o	43	97	5	S	-	-	10	10	3000	1	*	44	39	29	Tr	Tr	0.0	
	Boscombe Down	417	1032.7	-2	WSW	1	o	40	97	4	S	-	-	10	10	3500	1031.9	-6	WNW	1	bc	43	97	5	S	-	-	10	10	3000	1	*	43	34	30	Tr	Tr	0.0	
	Thorney Island	10	1032.6	-2	WNW	2	m	43	92	4	S	-	-	10	10	4600	1031.9	-4	-	0	o	43	97	5	S	-	-	10	10	3000	1	*	45	40	37	-	-	0.0	
	Lympne	346	1031.8	-6	WNW	1	o	39	92	5	S	-	-	10	10	3500	1020.8	-4	NW	2	cf	40	97	5	S	-	-	9	9	3800	1	\$2	44	35	32	-	0.3	3.2	
	Manston	154	1031.5	-2	SWW	2	m	41	85	4	S	-	-	10	10	4200	1030.3	-6	W	2	df	42	97	2	S	-	-	10	10	300	1	*	40	37	34	-	0.2	0.2	
2	Shoeburyness	11	1031.1	-6	SSW	2	f	42	92	2	S	-	-	10	10	1150	1030.3	-6	WSW	3	ido	44	92	4	S	-	-	10	10	1100	1	*	41	40	31	-	Tr	0.0	
	Felixstowe	15	1030.7	-4	W	3	o	40	92	2	S	-	-	10	10	3200	1029.7	-2	WNW	3	f	43	97	3	S	-	-	10	10	1500	1	2	43	37	32	-	0.1	4.5	
	Gorleston	5	1029.5	-4	WNW	3	o	41	92	6	S	-	-	10	10	1500	1029.6	+6	WNW	2	m	44	97	4	S	-	-	10	10	1500	1	*	43	38	32	-	Tr	*	
	Mildenhall	19	1030.3	-4	SW	3	m	43	97	4	S	-	-	10	10	2500	1029.6	-4	WSW	3	m	45	97	4	S	-	-	10	10	1900	1	*	44	35	32	Tr	0.1	1.1	
	Cranwell	240	1029.0	-2	W	3	ir	45	92	4	S	-	-	10	10	1500	1029.1	+2	W	2	m	46	97	4	S	-	-	10	10	1800	1	*	46	43	40	-	0.1	0.1	
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.3	0	WSW	2	d	46	97	4	S	-	-	10	10	450	1	*	46	43	*	-	0.5	*	
	Upper Heyford	408	1031.1	-6	SW	1	m	40	97	4	S	-	-	10	10	3100	1030.3	-2	SSW	1	ido	43	97	4	S	-	-	10	10	1700	1	*	45	37	33	-	0.4	*	
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.3	-6	WSW	2	c	47	85	6	S	-	-	9+	9+	2500	1	*	47	44	36	Tr	0.1	0.2	
5	Hartland Point	299	1032.4	-2	WNW	3	c	56	85	8	S	2	-	7-8	10	2500	1031.6	-4	W	4	c	50	97	8	S	2	-	7-8	10	2500	1	4	48	46	45	1	Tr	0.1	
	Bristol	209	1032.0	-4	NNW	2	o	47	92	6	S	-	-	4-6	10	2000	1031.2	-4	WSW	1	c	48	92	6	S	-	-	9	9	2000	1	*	46	41	38	-	Tr	0.0	
	Portland Bill	32	1032.3	-4	WNW	3	o	48	92	7	S	-	-	10	10	2500	1031.5	-6	NW	3	o	49	92	7	S	-	-	10	10	2500	1	3	48	46	*	-	-	0.0	
	Plymouth	82	1033.9	-2	-	0	m	44	97	4	S	-	-	10	10	2500	1033.3	-6	-	0	o	45	97	8	S	-	-	10	10	2000	1	1	48	43	40	-	-	0.0	
	The Lizard	240	1034.3	0	-	0	c	47	85	7	S	2	-	7-8	7-8	1500	1033.7	-4	WNW	3	o	49	75	7	S	-	-	10	10	1500	0	3	49	43	*	-	-	0.0	
	Scilly (St. Mary's)	163	1034.1	+2	NW	3	c	50	85	7	S	-	-	10	10	1500	1033.8	+2	NW	3	c	50	92	7	S	-	-	10	10	1500	1	*	50	47	*	0.1	-	0.0	
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
6	Pembroke	142	1031.9	-2	WN	4	bc	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	*	Tr	0.4	0.7	
7	Holyhead/Valley	266	1029.4	-4	WSW	4	ro	49	97	6	5	-	-	10	10	600	1030.5	+0	NNW	2	cd	48	97	7	8	1	-	9	9+	1200	1	2	50	48	47	0.1	3	*	
	Chester/Sealand	16	1029.0	-6	NW	1	o	45	92	7	5	-	-	10	10	1600	1029.6	+6	NW	3	ro	48	97	5	8	1	-	10	10	1500	1	*	51	48	45	-	2	0.0	
8	Manchester	235	1029.3	-2	WS	3	ro	46	97	6	5	2	-	9+	10	1000	1029.6	+2	NW	1	ido	47	97	6	-	2	-	4-6	10	600	1	*	47	46	45	0.1	1	0.0	
10	Spurn Head	29	1028.3	-2	W	3	o	46	92	5	5	2	-	7-8	10	1500	1028.4	0	W	2	o	45	92	6	5	-	-	4-6	4-6	1500	1	2	45	42	*	-	-	0.0	
	Catterick	175	1028.0	0	SSW	1	b	48	85	7	5	4	-	Tr	1	3500	1028.0	-2	W's	2	o	43	92	6	5	-	-	Tr	Tr	2500	0	*	51	42	31	-	-	2.6	
	Tynemouth	108	1026.9	+4	W	4	c	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	-	-	*	
11	St. Abbs Head	280	1024.5	0	W	3	bc	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	*	-	-	*	
	Leuchars	36	1025.0	+6	SW	2	bc	40	92	8	-	4	6	0	4-6	-	1024.3	-8	WSW	3	b	37	92	3	-	-	0	0	-	1	*	51	36	28	-	-	0.3		
12	Renfrew (Abbotsl.)	19	1026.8	+6	W	3	o	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	39	2	Tr	2.6	
	Dalkeith	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	WN	2	bc	46	97	8	-	7	-	0	4-6	-	1029.2	+4	NW	4	b	47	72	8	4	-	-	1	1	2500	1	3	50	44	*	1	0.4	0.0	
13A	Tiree	22	1026.1	0	NW	3	bc	46	85	8	8	-	-	2-3	2-3	2800	1025.6	-6	WNW	4	c	49	85	7	5	-	-	7-8	7-8	2100	0	4	51	46	*	0.1	-	1.3	
13B	Stornoway	80	1023.7	0	SW	3	pr	44	92	7	5	7	-	4-6	9+	2500	1020.2	-16	WSW	7	pr	46	97	7	5	7	-	7-8	10	2000	1	3	51	44	*	0.2	1	0.5	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.8	-2	WSW	4	1	75	8	8	-	-	4-6	4-6	2500	1	*	48	38	32	0.6	0.1	0.0		
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.3	-14	3	1	o	40	75	5	5	-	-	Tr	Tr	3200	1	2	52	38	30	-	-	0.4	
	Wick	119	1021.8	+14	WSW	3	c	35	85	7	5	-	-	7-8	7-8	3500	1018.6	-24	SWW	3	bc	40	85	7	5	-	-	2-3	2-3	3500	1	*	51	39	35	Tr	Tr	*	
16	Sumburgh	30	1016.5	+6	NW	4	pr	46	85	7	8	-	-	9+	9+	1200	1014.8	-18	NNW	4	bc	44	37	7	8	-	-	4-6	4-6	1200	1	*	50	44	40	1	2	0.0	
17	Blackod Point	18	1030.6	+4	SW	1	c	48	92	7	9	-	-	7-8	7-8	1500	1031.7	+4	NW	2	bc	45	92	8	4	-	-	2-3	2-3	2500	1	3	52	43	*	3	0.1	*	
18	Malin Head	84	1028.1	+2	W	1	c	48	92	6	9	-	-	7-8	7-8	800	1028.3	-2	NW	3	c	48	75	7	8	-	-	7-8	7-8	4000	1	4	51	45	*	0.1	8	0.1	
	Aldergrove	268	1029.7	+2	SSW	1	bc	45	92	7	5	4	6	2-3	4-6	2000	1030.2	-2	SWW	2	o	43	97	6	5	-	-	4-6	4-6	2000	1	*	49	42	38	0.3	-	0.0	
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1032.2	+28	SSW	1	bc	45	97	8	5	-	-	4-6	4-6	2500	0	*	52	45	44	0.5	3	1.6	
20	Valentia Obey.	30	1031.8	-4	SWW	4	d	52	97	6	5	-	-	10	10	800	1033.5	+6	N'E	2	c	48	97	8	5	-	-	7-8	7-8	1500	1	3	54	47	42	-	1	2.4	
	Roches Point	22	1032.0	-2	WSW	3	ir	51	97	8	6	2	-	7-8	9+	1500	1032.3	+6	NNW	4	c	50	92																

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

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

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

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

Tuesday 23rd December 1941.

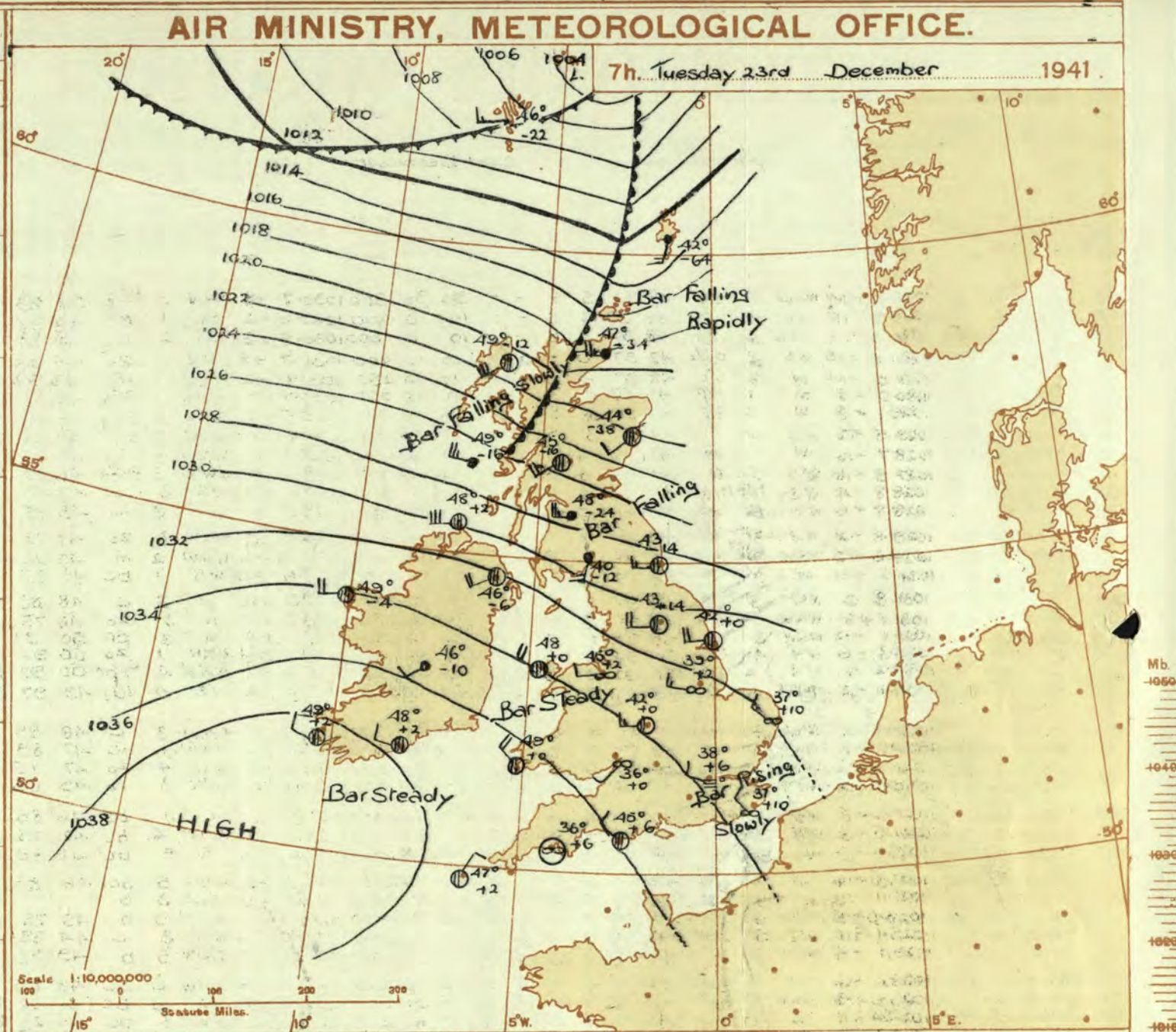
No 29251

OBSERVATIONS at 13h. G.M.T. 22nd December														OBSERVATIONS at 18h. G.M.T. Monday 22nd 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.			
				Dirce. (3)	Force. (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (14)	Form. (23)			Amount. (24)	Height of Base. (feet) (28)					7h.—13h. 22nd (37)	13h.—18h. 22nd (38)	18h.—22h. 23rd (39)	1h.—7h. 23rd (40)						
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lymington Manston	1029.8 1029.9 1030.3 1031.4 1031.0 1030.0 1029.1	-14 -10 -14 -10 -14 -10 -8	WSW W'S WSW W'S W W W	2 2 3 3 2 1 2	20 m 20 dodo ifo 9f 9f	47 48 48 47 48 46 47	92 97 97 97 97 97 97	5 5 5 5 5 5 5	- - - 2 - - -	97 97 10 10 10 10 10	97 97 10 400 250 500 300	1030.7 1029.6 1030.8 1031.3 1031.1 1030.2 1029.5	+8 -2 +8 +8 +2 +2 +2	NNW SW NW NW'N WNW WNW WNW	3 1 2 2 1 1 2	0 m c 20 m OF+ CF+	48 87 97 85 97 97 97	4 5 5 6 4 2 1	5 - - 5 5 5 5 5	1 - - - 2 - - -	46 97 97 3000 600 1500 5000	1 1 1 1 1 1 1	*	idfc d d ododo cirom offddo dfmo dcl	fm bcm cm cm oidomcm oidomcm omdaoff cidom f	bcbmx bzbom cm cm clcbmo cm cm cfbmw	bmbwcm bmbwcm bmbwcm bmbwcm bmbwcm bmbwcm bmbwcm			
2	Shoeburyness ... Felixstowe Gorleston Mildenhall Cranwell	1029.5 1028.7 1027.8 1028.8 1028.8	-12 -10 -18 -4 -6	W'S W W'N W'S WNW	2 4 2 3 3	f m m m 20	47 47 47 47 47	92 92 92 97 85	3 4 4 5 5	- - - - -	10 10 10 9 97	400 3000 500 1500 3000	1029.6 1029.0 1028.1 1029.1 1028.9	0 0 0 +4 0	WNW WNW NW'W W'S W	3 4 3 3 3	bf m CF+ 20 20	46 85 85 97 75	3 - - 5 - 												

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
1093-	25645	62785	3-	81745	63585	51	03761	20282	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	57585	83	02854	26325	07	01990	20484	5-	02866	55566
22083	10954	26415	83	01845	26215	83	01754	27114	5-	58328	24458
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	00790	26322	50	05663	24304	52	61647	55558
27553	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
57557	02854	26228	57	21755	28356	57	02854	28317	5-	52648	26358
8015-	02757	26327				00	00790	24300	5-	05655	26318
32553	05663	25426				00	05690	24220			
29050	01753	24803				00	00790	28200			
29247	02964	24416	50	01861	23424	00	00890	26100	54	01764	20204
310--	03628	24328	--	02648	24318				--	46109	24349
6145-	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	20216
36886	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	27243	00	05590	26200	07	08490	26228
3825-	05647	22227	01	05690	029325						
4385-	02647	26327				00	04690	00040	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).

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—
 = Warm Front on the Surface
 = Warm Front above the ground
 = Cold Front on the surface
 = Cold Front above the ground
 = Occluded Front (or Occlusion)
 = Warm Occlusion
 = Cold Occlusion
 = Lines of Frontogenesis
 Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)
 NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

GENERAL INFERENCE.

A large anticyclone is 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. Warning 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.

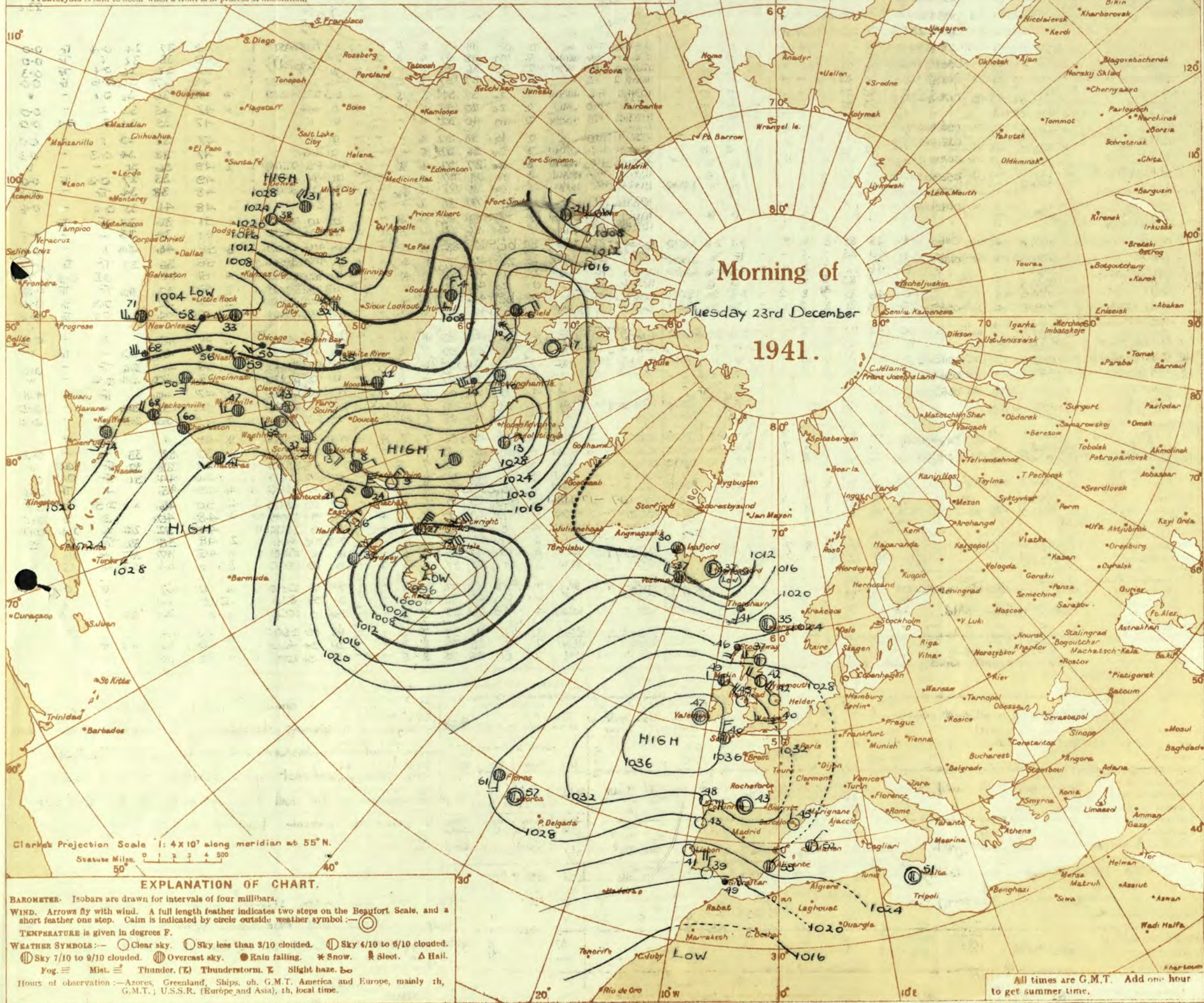
H.M.S.O. Press, Meteorological Office, Dunstable.

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

...Tuesday...23rd December 1941.

No.29251

OBSERVATIONS at 1 hr. G.M.T. 23rd December.														OBSERVATIONS at 7 hr. G.M.T. 23rd December.														PAST 24 HOURS.										
DISTRICT.	STATIONS.	Hght above M.S.L. in feet.	Barom. at M.S.L.	Change in 3 hours.	Wind.	Weather.	Temp.	Humid.	Visibility.	Cloud.					Barom. at M.S.L.	Change in 3 hours.	Wind.	Weather.	Temp.	Humid.	Visibility.	Cloud.					State of Ground.	Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE.				
										Form.			Amount.									Height of Base. (feet).	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.			
										Low.	Med.	High	Low	Total									Low	Med.	High	Low										Total		
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	
1	London (Kew) ...	18	*	*	*	*	37	*	*	*	*	*	*	*	*	1034.1	+8	W	2	Cf	38	97	8	5	-	-	9+	9+	2500	1	*	49	37	24	0.4	Tr	0.0	
	Croydon ...	217	1031.7	+6	W	3	m	40	92	4	-	-	*	*	*	1033.4	+6	NNW	2	M	38	97	4	5	2	-	2.3	3+	4000	1	*	49	38	32	1	Tr	0.0	
	S. Farnborough ...	226	1033.5	+10	W	2	m	38	92	4	-	-	0	0	-	1035.4	+10	N	2	C	36	92	5	-	2	-	0	3+	-	3	*	49	34	26	0.1	Tr	0.0	
	Boscombe Down ...	417	1033.5	+10	NNW	2	b	38	85	6	-	-	0	0	-	1035.2	-2	N	2	F	37	97	3	5	1	-	4	7.8	3000	1	*	48	37	31	0.6	Tr	0.0	
	Thorney Island ...	10	1033.1	+8	NW	3	b	40	92	7	-	-	0	0	-	1034.5	+6	NNW	3	Zo	37	92	6	5	4	-	2.3	2.3	4000	1	*	49	36	31	0.1	-	*	
	Lynypne ...	346	1031.5	+8	NW	3	Zo	39	92	5	-	-	0	0	-	1033.3	+10	NW	2	Zo	37	97	5	-	-	8	0	4.6	-	1	*	47	45	32	2	-	0.0	
	Manston ...	154	1031.4	+8	NW	3	m	40	92	4	-	-	0	0	-	1033.0	+8	NNN	2	m	40	92	4	-	-	1	0	1	-	1	*	47	39	3+	2	0.1	0.0	
2	Shoeburyness ...	11	1031.5	+4	W's	2	m	40	85	4	-	-	0	0	-	1033.1	+10	W	2	b	38	92	5	-	-	-	0	0	-	1	*	47	38	29	1	-	0.0	
	Felixstowe ...	15	1031.0	+8	NNW	4	m	42	92	4	-	-	0	0	-	1032.9	+10	NNW	3	Zo	38	92	5	-	-	6	0	4.6	-	1	*	47	38	34	0.3	-	0.3	
	Gorleston ...	5	1030.4	+18	NW	2	Zo	41	97	6	-	-	0	0	-	1031.7	+10	NNW	3	Zo	37	92	6	5	-	-	4.6	4.6	2500	1	2	49	36	31	-	-	*	
	Mildenhall ...	19	1031.2	+10	NN	3	Zo	37	97	5	-	-	0	0	-	1032.3	+6	WSW	3	m	35	97	4	-	7	-	0	1	-	1	*	49	33	27	0.3	Tr	0.0	
	Cranwell ...	240	1031.3	+4	NNW	2	Zo	40	92	5	5	-	-	-	3000	1032.1	+2	N'N	3	Zo	39	92	5	5	-	-	9	3	3000	1	*	48	38	34	-	Tr	0.3	
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1033.6	0	N	3	bc	42	85	6	-	7	-	0	2.3	-	1	*	48	41	35	0.1	-	0.4	
	Upper Heyford ...	408	1032.4	+4	W	2	Zo	38	92	5	-	-	0	0	-	1034.1	+2	WSW	2	Zo	39	92	6	5	-	-	10	10	2000	1	*	51	36	33	Tr	Tr	*	
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1034.5	0	SW'W	1	Zo	36	92	6	5	1	6	Tr	9+	3000	1	*	61	34	29	-	-	0.7	
5	Hartland Point ...	299	1034.8	+4	N	3	C	48	85	8	5	-	7.8	7.8	2500	1035.7	0	NW	2	bc	48	85	8	5	-	-	4.6	4.6	2500	1	3	51	46	44	1	-	0.0	
	Bristol ...	209	1034.4	+6	NNW	2	b	40	85	7	5	-	Tr	Tr	3000	1035.7	+6	NW	2	Zo	40	97	5	5	1	-	1	4.6	3000	1	*	50	36	27	Tr	Tr	0.0	
	Portland Bill ...	32	1034.1	+12	N	2	bc	46	92	7	5	-	4.6	4.6	2500	1034.9	+6	NW	2	C	48	92	7	4	-	-	10	10	2500	1	4	51	44	*	0.2	0.3	*	
	Plymouth ...	82	1035.4	+8	NE	1	Zo	42	85	5	-	-	0	0	-	1036.6	+6	-	0	Zo	42	97	5	5	-	-	7.8	7.8	3000	1	2	52	32	30	Tr	Tr	0.0	
	The Lizard ...	240	1035.9	+6	NNE	2	C	46	85	7	8	2	-	7.8	9+	1500	1036.8	+4	N	2	bc	44	75	8	4	-	2.3	2.3	2500	0	3	51	42	*	0.2	0.4	*	
	Seilly (St. Mary's) ...	163	1036.0	+6	NE	3	C	48	75	8	5	-	9+	9+	1500	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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
6	Pembroke ...	142	1035.3	+4	NN'N	3	bc	48	92	8	2	-	2.3	2.3	2500	1036.1	0	NW	4	bc	48	85	8	2	-	-	4.6	4.6	4000	1	3	51	43	*	1	-	0.3	
7	Polyhead (Valley) ...	26	1033.5	+6	NW	4	b	45	97	7	-	-	0	0	-	1033.8	0	NNW	4	bc	48	92	7	5	-	-	10	10	2200	1	3	49	42	33	-	Tr	*	
	Chester (Sealand) ...	16	1033.1	+2	N'N	2	Zo	45	92	6	5	-	Tr	Tr	3000	1033.3	+2	N	2	Zo	45	85	6	5	7	6	2.3	10	3000	1	*	48	44	34	Tr	-	0.1	
8	Manchester ...	235	1032.5	+6	NNW	3	b	42	97	7	-	-	0	0	-	1032.9	-2	-	0	C	42	97	6	5	-	-	10	10	3000	1	*	48	39	34	0.2	-	0.1	
10	Spurn Head ...	29	1029.9	+16	NNW	4	Zo	42	92	6	-	-	0	0	-	1030.7	0	W	4	bc	42	92	6	1	4	-	2.3	4.6	4000	0	2	47	40	*	Tr	-	4.1	
	Catterick ...	175	1031.4	+14	N'N	3	b	41	85	7	5	-	Tr	Tr	3500	1029.9	-14	W	4	bc	43	85	7	4	1	-	2.3	4.6	4000	1	3	50	38	30	-	-	2.0	
	Tynemouth ...	108	1029.9	+10	NNW	3	bc	42	85	6	2	-	2.3	2.3	2500	1028.0	-14	W	3	bc	43	85	6	8	-	-	2.3	2.3	2500	1	3	49	38	35	-	-	0.0	
11	St. Abbs Head ...	280	1028.3	+12	NNW	4	C	43	85	7	5	4	-	4.6	7.8	2500	1024.8	-32	NNW	4	C	46	85	7	5	4	-	7.8	9+	2500	*	3	49	*	*	-	*	
	Leuchars ...	36	1028.7	+6	W	1	C	40	75	8	5	7	-	4.6	9+	4000	1022.9	-42	WSW	3	bc	44	85	7	5	7	-	4.6	4.6	1000	1	*	50	37	33	Tr	-	0.3
12	Reaford (Abbots I.) ...	19	1030.7	+6	-	0	Zo	39	92	6	5	-	10	10	2500	1026.3	-24	N	5	ir	48	85	7	5	-	-	7.8	7.8	3500	1	*	49	38	32	Tr	-	*	
	Esksdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.5	-12	SW	3	ir	40	97	8	2	-	-	10	10	22.0	1	*	46	44	31	Tr	0.1	0.1	
	Point of Ayre... ..	30	1032.5	+6	NN'W	4	b	47	85	8	4	-	Tr	Tr	2000	1031.3	-8	NNW	5	ir	48	92	8	6	7	-	4.6	10	1500	1	4	49	45	*	-	Tr	0.8	
13A	Tiree ...	22	1029.2	-4	NN	3	C	46	92	7	5	-	9	9	2500	1027.0	-16	NN	5	ir	49	92	7	5	-	-	10	10	1800	1	4	50	46	*	0.5	0.2		
13B	Stornoway ...	80	1023.9	-28	SSW	4	rofo	46	97	7	5	2	-	9	10	1500	1020.7	-12	NN	6	C	49	97	8	6	-	-	7.8	9+	1500	1	3	48	40	*	3	0.7	
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.1	-16	WSW	4	C	45	85	7	8	-	-	9	9	2500	1	*	44	32	24	2	0.4	0.0	
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.0	-38	SW'W	2	C	44	85	6	6	-	-	7.8	7.8	1600	1	2	48	38	32	Tr	-	1.5	
	Wick ...	119	1024.7	-8	NNW	3	pr	39	85	7	8	7	-	7.8	7.8	3200	1017.6	-34	N	5	ir	47	85	6	5	-	-	10	10	1500	1	*	45	37	35	4	3	*
16	Sumburgh ...	30	1023.0	-10	-	0	bc	35	85	8	-	-	6	0	4.6	-	-	SSW	3	rr	42	97	7	5	2	-	9	10	1800	1	3	46	34	27	3	5	*	
17	Blacksod Point ...	18	1035.2	+8	NNW	1	0	48	92	8	5	-	10	10	2500	1034.5	-4	N	4	C/d	49	92	7	5	-	-	9+	9+	1500	1	+	*	47	*	Tr	0.1	*	
18	Malin Head ...	84	1031.4	-6	W	2	C	48	92	7	5	-	7.8	7.8	1500	1030.1	-6	N	6	C	49	85	5	9	-	-	9+	9+	800	1	5	50	44	*	0.1	Tr	0.0	
	Aldergrove ...	268	1033.3	0	SW	1	Zo	42	97	6	5	-	9+	9+	2000	1032.5	-6	WSW	4	C/d	46	92	7	5	-	-	7.8	10	1000	1	*	47	40	35	-	Tr	0.1	
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1035.8	+10	WSW	1	ir	46	92	7	5	-	-	10	10	2500	1	*	48	44	42	Tr	Tr	0.0	
20	Valentia Obay. ...	30	1038.2	+0	-	0	C	47	85	8	5	-	10	10	4000	1038.3	+2	NNW	2	C	49	75	8	5	-	-	9+	9+	4000	1	3	49	46	45	Tr	-	*	
	Roches Point ...	22	1037.5	+8	NNW	1	C	47	85	8	5	-	9+	9+	1500	1037.9	+2	N'N	2	C	48	75	8	5	-	-	9+	9+	1500	1	*	50	48	*	-	-	*	

LOCAL OBSERVATIONS.												EXPLANATION OF FIGURES, LETTERS, etc.											
Day 7h—18h. Kew & Croydon. 9h—18h. Kensington. 9h—21h. other stations except for rainfall which is 9h—18h.												Columns 2, 16. The barometric tendency is expressed in tenths of a millibar.											
Kew... .. Croydon Greenwich (Royal Observatory)... City (Bunhill Row) Westminster (St. James' Park) ... Regents Pk. (Botanic Gardens)... Camden Square Kensington Hampstead Observatory												Columns 8, 22—Code for surface visibility. Objects not visible at 0 Dense fog 55 yards. 1 Thick fog 220 " 2 Fog 560 " 3 Moderate fog 1,100 " 4 Mist or haze 1½ miles. 5 Poor visibility 2½ " 6 Moderate " 4½ " 7 Good " 12½ " 8 Very good " 31 " 9 Excellent " beyond 31m.											
Columns 4, 18. THE BEAUFORT SCALE OF WIND is used only for surface observations. In the ac- companying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.												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.																							

[‡] Pressure at 1,000 dynamic metres level.

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

‡ Sea disturbance reported from Dungeness.

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

TERMS OF SUBSCRIPTION. { single Copies, 1d. each: by post 1½d.
2/6 per month: 8/6 per quarter: 25/- per year.

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

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

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

Wednesday, 24th December, 1941.
No. 29252.

OBSERVATIONS at 13h. G.M.T. 23rd December														OBSERVATIONS at 18h. G.M.T. 23rd December														PAST 24 HOURS.																																																																																																																																																																																																																				
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					Barom. at M.S.L. (29)	Change in 3 hours. (30)	WEATHER.																																																																																																																																																																																																																		
				Dir.	Force. 0-12 (4)					Form.	Amount. Low 0-10 Total 0-10 (12) (13)	Height of Base. (feet) (14)	Dir.	Force. 0-12 (18)			Form.	Amount. Low 0-10 Total 0-10 (24) (25)					Height of Base. (feet) (26)	State of Ground. 0-9 (28)	Sea. 0-9 (29)	7h.-13h. 23rd. (37)	13h.-18h. 23rd. (38)			18h. 23rd 1h. 24th (39)	1h.-7h. 24th. (40)																																																																																																																																																																																																																	
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympe Manston	1033.2 1033.0 1033.9 1034.7 1034.6 1032.8 1032.3	-2.0 -1.4 -1.8 -1.4 -1.2 -1.8 -1.6	WS WSW WS WS NW WSW SW	3 3 3 3 2 1 2	N N N N N N N	46 47 48 45 45 45 44	75 75 75 92 92 92 85	6 6 6 5 5 5 5	5 5 5 5 5 5 5	2-3 3 6 7-8 7-8 Tr 0	3 3 6 7-8 7-8 4-6 4-6	4000 - - 1500 - 500 -	1032.2 1031.5 1032.9 1033.8 1033.3 1031.6 1030.9	-6 -10 -2 -6 -2 -6 -8	WSW W NW W W W WS	2 2 2 3 3 3 3	N N N N N N N	43 43 41 45 44 41 42	92 97 97 85 92 92 85	5 4 6 7 5 4 5	1 1 1 1 1 1 1	0 Tr 0 10 2-3 0 2-3	0 - - 1500 1500 - - 1500	1 1 1 1 1 1 1	3 3 3 3 3 3 3	1030.7 1029.6 1027.8 1029.1 1028.0	-10 -10 -8 -10 -6	WS W W W W W W	2 5 4 4 4 4 4	N N N N N N N	45 45 45 45 46 46 46	85 85 85 85 85 85 85	6 5 6 6 5 5 5	5 5 5 5 5 5 5	1 1 1 1 1 1 1	2-3 0 1 10 10 10 10	7-8 - - 1 10 10 10	2500 - - 2500 2500 7200 2000	1 1 1 1 1 1 1	3 3 3 3 3 3 3	1030.1 1032.3 1032.9 1033.3	-10 -4 -1.6 -1.2	W WSW SW SW	4 2 2 2	N N N N	47 46 46 50	85 85 85 75	6 6 6 8	5 5 5 1	1 1 1 1	0 7-8 Tr 4-6	3500 3500 3500 3500	1031.3 1032.1 1032.8	-4 -6 -8	WSW WSW WSW	3 3 2	N N N	46 45 45	85 85 85	6 7 8	5 5 5	1 1 1	10 10 7-8	10 10 9+	1500 1800 3000	1 1 1	3 3 3	1035.9 1034.4 1035.2 1037.0 1037.7 1038.4	-6 -1.8 -1.6 -1.6 -4 +2	NW W W W W -	3 4 3 3 2 0	C C C C C C	49 48 48 49 50 50	75 85 92 88 85 75	9 9 8 8 8 8	5 5 2 5 8 6	1 1 1 1 1 1	9 4-6 9 9 7-8 9+	2800 2000 4000 3000 2500 1800	1035.6 1033.6 1034.1 1036.7 1037.7 1037.8	0 -4 +2 -2 +6 +12	S WNW W NW NW WNW	3 3 3 3 4 2	C C C C C C	47 45 49 48 47 48	85 85 85 85 75 85	8 7 7 7 8 8	5 5 5 5 8 5	1 1 1 1 2 1	10 2-3 10 10 7-8 10	10 4-6 10 10 9+	2500 2000 2500 2000 2500 1500	1 1 1 0 0 1	3 3 3 3 3 3	1036.1 1033.2 1032.1 1031.8	-4 -6 -10 -8	WNW W WNW W	4 5 5 4	C C C C	49 49 49 46	92 85 75 92	8 8 8 6	8 5 5 5	1 1 1 1	9 10 9+	2000 1000 2200	1035.2 1032.1 1030.3 1030.0	-4 0 -6 -10	W W W W	4 5 4 4	C C C C	49 49 51 48	85 97 75 92	8 8 7 6	8 8 5 5	6 2 7 1	7-8 2-3 7-8 10	9+ 10 10 10	1500 1500 2200 1200	1 1 1 1	3 3 3 3	1029.9 1026.8 1025.0	-1.8 -2.2 -2.0	WS W W	5 4 6	C C C	46 50 49	92 75 85	5 8 7	5 5 8	7 2 1	4-6 9+	7-8 10 9+	1500 1500 2400	1026.1 1025.9 1024.4	-2 -2 0	W WNW W	5 4 6	C C C	47 53 51	85 75 85	5 8 7	5 5 2	10 7-8 4-6	10 9+ 7-8	1500 1200 2500	1 1 1	3 3 3	1021.8 1020.9 1024.5 1025.4 1029.9	-8 -10 -1.4 -1.4 -8	WNW W WS WS WNW	6 5 6 4 6	C C C C C	51 53 51 48 49	75 75 85 85 85	8 9 8 5 8	5 5 7 1 5	1 1 1 1 1	4-6 4-6 9 10 7-8	2500 3500 1400 450 1600	1021.2 1021.3 1025.0 1025.5 1028.9	+4 0 +6 +6 0	WNW WSW W W W	6 2 4 4 4	C C C C C	52 50 51 48 50	75 85 85 85 92	7 9 8 6 8	5 5 5 5 8	7 1 1 1 7	4-6 9 10 10 9	2500 3500 2200 800 1500	0 1 1 1 0	3 3 3 3 4	1026.4 1022.3 1023.1 1018.6 1016.9 1010.9	0 +1.6 +2 -8 -6 +4	WNW WSW WSW WNW W WNW	5 6 4 6 6 6	C C C C C C	50 47 53 49 47	97 85 92 92 75	7 7 8 9 9 7	5 5 5 5 5 8	1 1 1 1 1 1	7-8 7-8 10 2-3 7-8 7-8	7-8 800 1500 2200 1500 1200	1026.1 1021.0 1024.9 1019.3 1016.7 1011.5	0 -6 0 +2 -6 -10	WNW WSW W W WNW WNW	4 7 3 3 5 3	C C C C C C	51 51 47 51 49 47	97 97 85 85 85 85	7 6 7 8 8 7	5 2 1 5 5 5	9+ 7-8 9 4-6 9+ 7-8	2500 1000 2500 1600 1600 2500	1 1 1 1 1 1	5 4 4 2 2 5	1034.7 1029.4 1030.8	+4 +2 +4	W W W	3 4 4	C C C	50 51 50	97 92 85	8 6 8	1 8 5	1 1 1	0 9+ 9+	0 800 1600	1 1 1	3 5 3	1036.0 1038.8 1037.7	-2 -2 -10	WSW WNW WNW	1 3 3	C C C	49 49 48	85 85 85	7 9 8	5 5 5	1 1 1	7-8 10 9+	2500 2500 2500	1034.9 1037.9 1036.6	-2 -2 -2	WNW W WNW	2 3 3	C C C	48 49 48	92 97 85	7 6 8	5 5 5	1 1 1	10 10 7-8	10 450 2500	1 1 1	3 3 3

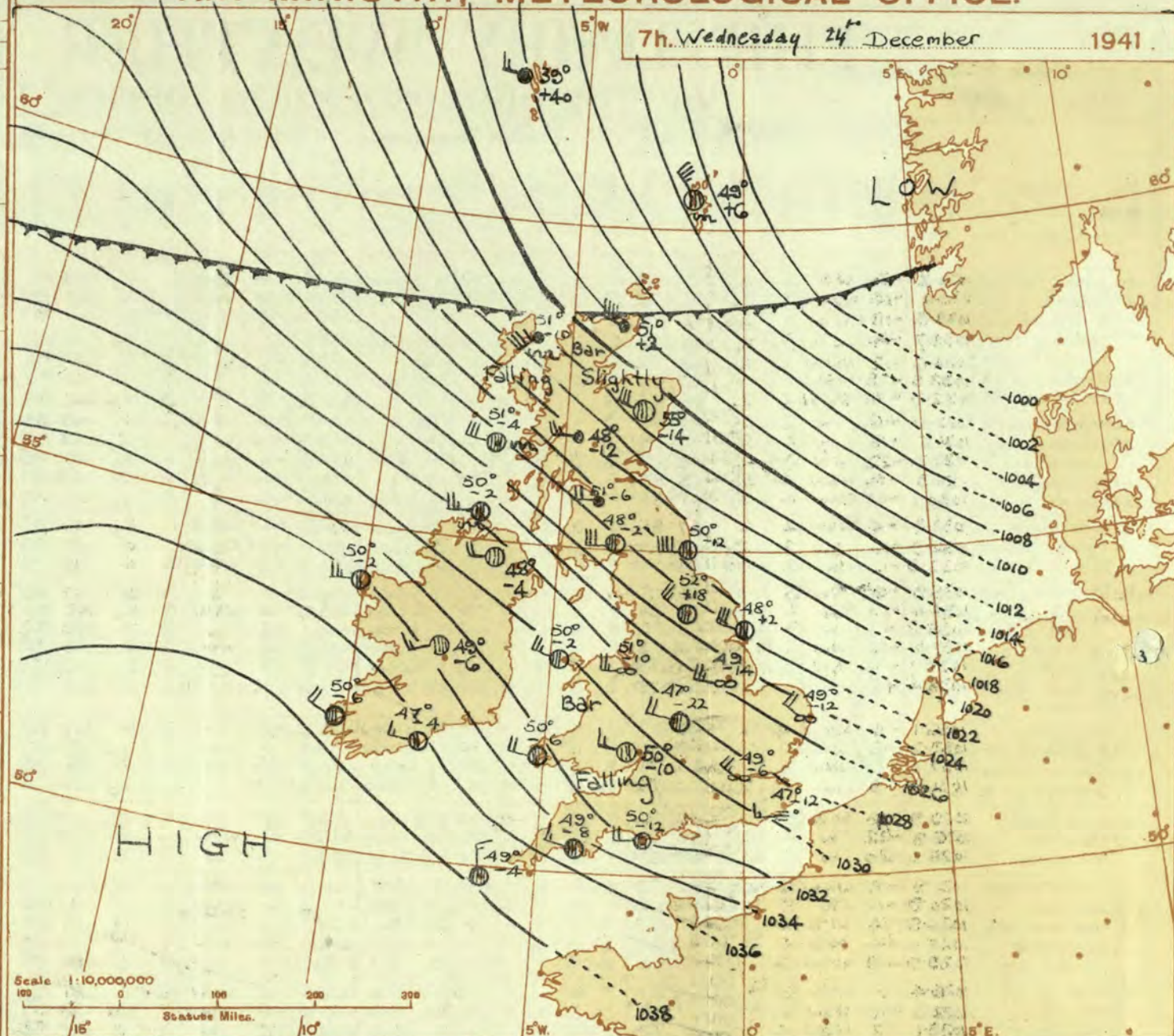
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 23rd December 18h. G.M.T.				01h. G.M.T. 24th December 07h. G.M.T.			
III C _M	wwVhN _h	DDFWN	C _L C _M	wwVhN _h	DDFWN	C _L C _M	wwVhN _h
109 87	21745	6056	5-	51544	58654	62	52535
115			--	67109	20589	52	62735
203			6-	62728	28468	6-	02738
206 94	02955	56467	57	02955	57587	5-	02856
210 57	02955	56558	86	01854	56515	80	00343
220 31	25736	25447	5-	53438	53558	52	43435
230 5-	21748	24358	5-	51737	24558	5-	51648
245 54	02953	44416	57	01853	22216	57	01851
260 57	02744	22567	57	05653	24824	54	05655
278 5-	61838	25668	5-	51738	26468	57	02846
279 62	52637	22558	62	52665	20458	50	02845
285			6-	59638	24668	27	05635
288 5-	02847	21327	51	02786	22328	52	02755
295 5-	51638	26458	62	21636	61458	5-	61648
301 5-	05648	26428	57	08655	25828	52	02756
321 5-	05658	24458	5-	05647	58427	57	05656
299 51	05644	23315	50	05643	23313	50	01743
292 5-	02847	24427	5-	02858	23428	5-	02747
310 --	47209	24449					
314 5-	51648	24358	52	52535	67458	57	05545
333 5-	02858	26318	53	01863	24518	51	02753
334 --	03747	24328					
340 5-	02848	24228	5-	51748	26358	50	21658
136 04	05630	22318	6-	05648	23528	5-	05647
336 52	05644	24528	62	62536	28468	62	63646
350 57	05662	21327	5-	05657	23427	5-	05638
368 74	02852	24427				52	51745
379 53	02761	22315				57	01742
390						5-	51658
382 04	05630	18315	53	05655	25326	5-	05658
438 51	02573	24114				8-	02555
430						5-	05648
409 5-	02867	28327	5-	02868	29328	5-	02848

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 ...	
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.
17 N.W. Ireland ...	
18 N.E. Ireland ...	As 7-12
19 S.E. Ireland	
20 S.W. Ireland	As 1-6

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

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

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.

Morning of
 Wednesday 24th December
 1941.

Glantz'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. ☼ 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.

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Wednesday 24th December, 1941.
No 29252.

OBSERVATIONS at 1 hr. G.M.T. 24th December															OBSERVATIONS at 7 hr. G.M.T. 24th December															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visiblity.	Cloud.					Barom. at 7 hr. M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visiblity.	Cloud.					Sea. 0-9	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs. 23rd				
					Direc.	Force.					0-12	Low.	Med.	High.	Low 0-10			Total 0-10	Height of Base (feet).					Low.	Med.	High.	Low 0-10	Total 0-10		Height of Base (feet).	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	*	*	*	*	*	46	92	5	*	*	*	1028.1	-10	WNW	3	z	49	75	6	5	-	8	2.3	9+	2500	1	*	47	42	36	-	-	3.6				
	Croydon	217	1030.7	-6	W	3	c/d	45	92	5	*	*	*	1029.1	-6	WNW	5	z	49	85	6	5	-	7	9	9+	2000	1	*	49	41	34	-	-	2.0				
	S. Farnborough	226	1031.6	-10	W	4	c	46	85	7	5	-	-	1030.4	-2	WNW	4	z	49	75	8	5	-	9	9	9	2500	1	*	50	40	34	Tr	Tr	4.7				
	Boscombe Down	417	1033.2	-6	W	4	z	46	92	6	5	-	-	1031.7	-6	W	3	z	46	92	6	5	-	2	9	10	3000	1	*	46	41	37	-	-	3.6				
	Thorney Island	10	1032.8	-6	WNW	2	z	46	85	6	5	-	-	1031.2	-8	WNW	4	z	45	92	6	5	-	7	4.6	4.6	2500	1	*	45	42	38	-	-	*				
	Lymington	346	1029.8	-10	WNW	3	m	43	97	4	5	-	-	1028.3	-12	W	3	m	47	85	4	5	-	1	10	10	2000	1	\$	46	37	37	0.1	1	1.8				
	Manston	154	1029.5	-8	WNW	4	z	45	85	5	5	-	-	1027.6	-6	W	4	z	48	85	6	5	-	2	9	10	1800	1	*	46	42	38	0.1	-	2.3				
2	Shoeburyness	11	1029.6	-6	W	3	m	46	85	4	5	-	-	1027.8	-8	W	4	c	49	85	5	5	-	-	10	10	1500	1	*	47	43	37	-	0.1	0.3				
	Felixstowe	15	1028.4	-6	WN	5	z	46	85	5	5	-	-	1026.0	-12	WNW	6	z	50	75	6	5	-	-	9+	9+	2000	1	3	45	43	40	-	-	0.7				
	Gorleston	5	1026.3	-8	WSW	4	z	47	85	6	5	-	-	1024.2	-12	WNW	4	z	49	85	6	5	-	-	9+	9+	1500	3	*	45	45	-	-	-	0.7				
	Mildenhall	19	1028.5	-6	W	4	z	47	92	6	5	-	-	1026.5	-10	W	4	z	49	85	6	5	-	-	2.3	2.3	2500	0	*	48	44	32	-	-	1.6				
	Cranwell	240	1027.3	-6	W	4	z	49	85	5	5	-	-	1025.1	-14	WN	5	z	49	85	6	5	-	-	9+	9+	2000	1	*	49	45	44	-	-	2.0				
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	1028.0	-22	WNW	4	c	47	75	8	-	7	0	2+	-	1	*	49	45	43	-	-	1.7					
	Upper Heyford	408	1030.3	-6	W	3	z	47	85	6	5	-	-	1029.5	-6	WN	4	bc	48	85	7	5	7	-	2.3	4.6	2500	1	*	48	44	43	-	-	*				
	Ross-on-Wye	223		*	*	*	*	*	*	*	*	*	*	1030.3	-10	WN	3	c	50	75	8	5	-	-	9+	9+	2500	1	*	51	45	39	-	-	3.4				
5	Hartland Point	299	1034.9	-6	WNW	3	c	49	85	8	5	2	-	1034.4	-24	WNW	3	c	49	92	8	5	-	-	7.8	7.8	2500	1	4	50	47	46	-	-	0.3				
	Bristol	209	1033.2	-10	W	4	c	47	92	7	5	-	-	1031.8	-6	W	4	c	47	85	7	5	3	-	4.6	7.8	2200	1	*	49	43	40	-	-	2.6				
	Portland Bill	32	1033.9	-4	WNW	4	c	47	85	7	5	-	-	1031.8	-12	W	4	c	50	92	7	5	-	-	7.8	7.8	2500	1	*	50	44	-	-	-	0.3				
	Plymouth	82	1036.6	-2	WNW	3	c	48	85	7	5	-	-	1035.2	-8	WNW	3	c	49	92	7	5	-	-	7.8	7.8	1500	1	2	50	50	43	Tr	-	0.3				
	The Lizard	240	1037.3	-4	WNW	3	c	47	85	8	2	-	-	1036.4	-4	WNW	3	c	49	85	7	8	2	-	9	10	1500	0	3	50	46	-	-	-	0.8				
	Scilly (St. Mary's)	163	1037.6	-2	WNW	4	o	47	92	7	5	-	-	1037.1	-4	WNW	3	o	49	85	8	5	-	-	10	10	1200	1	3	51	47	-	-	-	0.0				
	Guernsey	175																																					
6	Pembroke	142	1035.1	-6	W	5	cq	51	97	8	8	-	-	1034.2	-6	WNW	4	cq	50	97	8	8	-	-	9+	9+	2500	1	3	49	48	-	-	-	*				
	Holyhead (Valley)	26	1031.6	-6	WNW	5	c	50	85	7	5	-	-	1031.3	-2	WNW	5	c	50	85	7	5	-	-	9+	9+	2000	1	4	49	48	42	-	-	*				
	Chester (Sealand)	16	1030.5	-2	WN	5	c	52	75	6	5	-	-	1029.2	-10	W	5	z	51	75	6	5	7	-	9	10	2500	1	*	51	55	44	-	-	0.0				
	Manchester	235	1029.5	-2	WN	5	z	49	92	6	5	-	-	1028.2	-8	WN	6	z	48	85	8	5	-	-	10	10	2500	1	*	48	47	45	0.1	Tr	*				
10	Spurn Head	29	1024.1	-12	WNW	5	z	48	85	6	5	-	-	1023.7	+2	WNW	6	c	48	85	7	4	1	-	4.6	7.8	1500	0	4	48	46	-	-	-	1.6				
	Catterick	175	1025.1	-10	W	3	c	51	75	5	2	-	-	1022.2	+18	WNW	5	c	52	65	7	5	2	-	1	10	1500	1	*	53	43	47	-	-	0.0				
	Tynemouth	108	1022.7	-22	W	6	cq	50	85	7	8	-	-	1013.4	-12	W	8	c	50	85	7	5	-	-	9	10	1500	1	+	51	48	45	-	-	*				
11	St. Abbs Head	280	1019.5	-12	W	6	cq	51	75	7	5	7	-	1016.8	-10	W	8	bcq	51	85	7	4	4	-	2.3	4.6	2500	0	4	52	49	-	-	-	*				
	Leuchars	36	1019.1	-18	WSW	6	bc	50	85	8	5	-	-	1016.3	-2	WNW	7	c	51	85	8	5	-	-	7.8	7.8	4500	1	*	53	48	41	-	-	0.0				
12	Renfrew (Abbots I.)	19	1024.2	-6	W	5	z	50	85	6	5	-	-	1022.9	-10	W	4	o/d	51	75	6	5	-	-	10	10	2500	1	*	51	50	48	Tr	0.3	0.1				
	Eskdalemuir	794		*	*	*	*	*	*	*	*	*	*	1022.9	-2	W	6	c	48	97	7	5	-	-	9+	9+	800	1	*	49	46	45	Tr	0.3	0.0				
	Point of Ayre	30	1028.9	-2	WNW	5	c	50	92	8	6	2	-	1027.7	-2	WNW	6	c	50	85	8	8	4	-	7.8	9+	2000	0		50	49	45	Tr	0.3	0.0				
13A	Tiree	22	1024.4	-8	WNW	5	o	50	92	7	5	-	-	1023.3	-4	WNW	6	o	51	92	7	5	-	-	10	10	1500	0	6	51	50	*	0.3	-	0.0				
13B	Stornoway	80	1018.9	-22	WSW	7	c	50	97	7	5	7	-	1016.2	-10	WSW	8	ir	51	97	7	5	7	-	4.6	7.8	1000	1	5	51	49	-	-	-	0.0				
15	Dalwhinnie	1176		*	*	*	*	*	*	*	*	*	*	1018.6	-12	W	5	ir	48	85	7	5	2	-	3	10	1500	1	*	48	46	43	0.5	0.1	0.3				
	Aberdeen	79		*	*	*	*	*	*	*	*	*	*	1012.9	-14	WNW	6	c	55	75	8	5	-	-	7.8	7.8	1400	1	3	52									

AIR
MINISTRY.THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET
BRITISH ARMY
Thursday 25th December 1941.
No. 29,253.

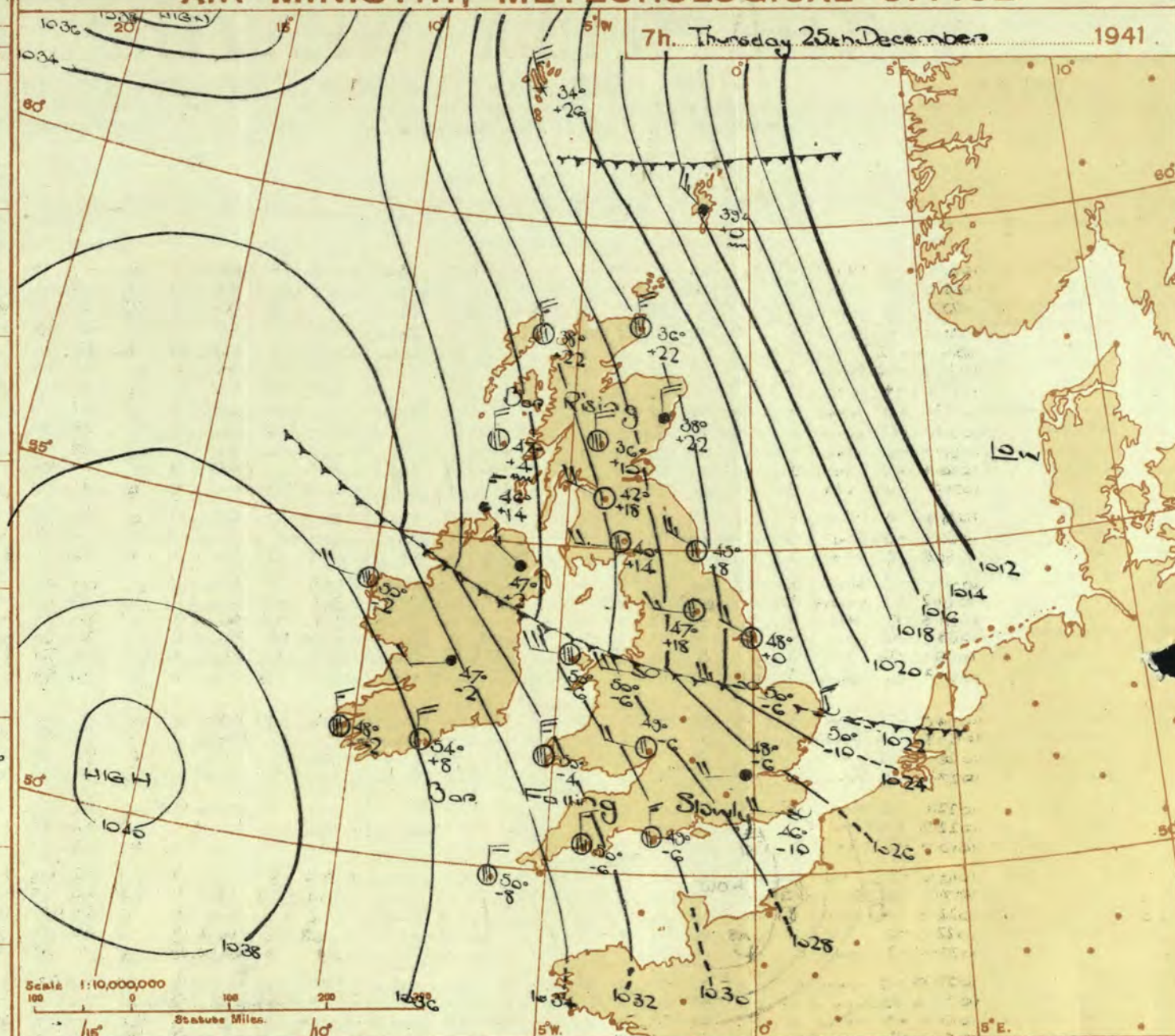
OBSERVATIONS at 13h. G.M.T. 24th December														OBSERVATIONS at 18h. G.M.T. 24th December														PAST 24 HOURS.							
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				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.				Barom. at M.S.L. mb. (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.						
				Dir.	Force. 0-12 (4)					Form.	Amount. Low Total 0-10 0-10 (10) (11) (12) (13)	Height of Base. (feet) (14)	Dir.			Force. 0-12 (18)	Form.					Amount. Low Total 0-10 0-10 (23) (24) (25) (26) (27)	Height of Base. (feet) (28)	7h.-13h. 24th (37)	13h.-18h. 24th (38)				18h.-24th 1h. 25th (39)	1h.-7h. 25th (40)					
1	London (Kew)...	1028.8	-6	WNW	4	c	52	65	8	7	-	4-6	3+	2500	1028.6	+4	WSW	3	bc	47	75	7	5	-	4-6	4-6	2500	1	*	bcngcy	cbe	bcc	cm		
	Croydon ...	1028.6	-6	WSW	5	c	53	65	7	5	3	6	4-6	3+	3300	1028.7	+6	WS	3	48	75	6	-	3	-	0-3	-	1	*	cmgcz	cbe	bcg	cm, id		
	S. Farnborough	1029.8	-2	WNW	4	c	51	65	8	5	3	-	7-8	3	2500	1029.7	+2	W	4	48	75	8	-	3	-	0-4	-	1	*	cmwbc	cbe	bcc	c		
	Boscombe Down	1031.0	-10	WNW	4	c	49	85	7	5	-	-	3+	3+	2500	1031.4	+4	W	2	45	85	7	5	-	1	-	1-2	2-3	2500	1	*	c	cbe	bcbm	bcmg
	Thorney Island	1030.4	-12	WNW	4	c	50	85	6	5	2	1	3	3+	4000	1030.3	+2	WNW	3	47	85	7	5	-	-	1-1	1-1	4000	1	*	bccm	cmg	bcbcc	bcc	
	Lympne ...	1028.2	-10	WNW	4	c	51	75	6	5	-	2	3	3+	3200	1027.7	-2	W	4	45	85	6	-	-	-	0	0	-	1	*	cmg	cmg	bcbm	bcmg	
	Manston ...	1027.4	-4	W	3	c	51	75	6	-	-	-	0	3+	-	1026.7	-12	W	4	47	75	5	-	-	1	0	-	1	*	cm	cmg	bcm	bcmg		
2	Shoeburyness ...	1027.4	-8	WNW	4	c	52	65	7	1	-	2	7+	3+	2500	1027.0	0	WSW	4	47	75	6	-	-	-	0	0	-	1	*	bcmg	cmg	bcmg	bcmg	
	Felixstowe ...	1025.9	-6	WNW	6	c	51	65	7	-	7	7	0	3+	-	1025.1	-4	WN	5	47	75	6	-	-	-	0	0	-	1	4	cmg	cmg	bcmg	bcmg	
	Gorleston ...	1024.4	-8	WNW	4	c	50	75	6	5	7	-	7-8	7-8	2500	1023.5	+10	W	3	48	85	6	5	-	-	3+	3+	1500	0	2	cmg	c	bcc	bcc	
	Mildenhall ...	1026.4	-2	W	5	c	50	75	7	5	-	8	2-3	3	2500	1025.5	-6	WS	4	47	85	7	5	-	-	0	0	-	1	*	bccm	c	bcc	bcc	
	Cranwell ...	1024.7	-10	WN	5	c	50	75	6	5	7	2	1	7-8	2000	1024.3	-2	WNW	6	50	85	6	5	-	-	1	0	-	1	*	cm	cmg	bccm	cm	
3	Birmingham	1028.4	0	WNW	4	c	49	65	8	5	7	-	1	3	1500	1028.0	+6	WNW	3	49	75	7	5	7	-	3	3+	2500	1	*	c	c	bcc	bcc	
	Upper Heyford	1029.2	-2	W	4	c	49	75	8	5	7	6	2-3	3+	2500	1028.6	-2	W	3	47	85	8	5	4	-	3	3+	3300	1	*	c	c	bcc	bcc	
4	Ross-on-Wye ...	1030.3	0	WNW	3	c	51	75	8	5	-	8	0	3+	2500	1030.1	0	W	4	49	75	8	5	4	-	1	1	2-3	3000	1	*	c	c	bcc	bcc
5	Hartland Point	1034.1	-6	WNW	3	c	50	75	8	5	-	-	10	10	2400	1033.5	-2	WN	3	49	85	8	5	4	-	7-8	3	1500	1	4	c	c	bcc	c	
	Bristol ...	1031.2	+2	WNW	3	c	50	75	7	5	-	6	9	3+	2500	1031.5	+4	WNW	2	49	85	7	5	1	-	4-6	4-6	3800	1	4	c	c	bcc	bcc	
	Portland Bill	1031.8	-6	WNW	4	c	51	92	7	4	-	-	10	10	2500	1031.8	+10	WNW	4	50	85	7	5	-	-	3	3	2500	1	4	c	c	bcc	bcc	
	Plymouth ...	1035.1	-6	WN	5	c	51	75	8	5	-	-	3	3	2500	1034.6	+2	WNW	3	51	75	8	5	1	-	3	10	3000	0	3	cmg	c	bcc	c	
	The Lizard ...	1036.1	-6	WN	5	c	51	75	8	5	-	-	7-8	3	2000	1035.8	0	WNW	4	49	75	8	5	2	-	7-8	10	1500	1	3	cmg	c	bcc	c	
	Soilly (St. Mary's)	1037.3	0	WNW	3	c	52	85	8	5	4	-	7-8	7-8	1500	1036.7	+2	W	4	50	85	8	5	-	-	3	3+	1500	1	3	cmg	c	bcc	c	
	Guernsey ...	1037.3	0	WNW	3	c	52	85	8	5	4	-	7-8	7-8	1500	1036.7	+2	W	4	50	85	8	5	-	-	3	3+	1500	1	3	cmg	c	bcc	c	
6	Pembroke ...	1034.5	-2	WN	5	c	50	97	8	5	6	-	7-8	3+	2500	1033.4	+2	WNW	4	51	92	8	5	2	-	2-3	2-3	2500	0	3	cmg	c	bcc	cm	
7	Holyhead (Valley)	1030.8	-10	WNW	6	c	51	85	8	5	7	-	4-6	4-6	2500	1030.3	+4	WNW	5	50	85	8	5	3	-	4-6	7-8	2500	1	4	cmg	c	bcc	cm	
	Chester (Sealand)	1028.4	-12	W	6	c	51	75	8	5	7	-	4-6	7-8	3000	1028.4	-2	WN	7	51	75	8	5	-	-	3	3+	5000	1	*	c	c	bcc	cm	
8	Manchester ...	1027.4	-10	WNW	6	c	49	85	6	5	-	-	7-8	3	5000	1027.4	0	WNW	6	49	85	7	5	7	-	4-6	10	1500	1	*	cmg	c	bcc	cm	
10	Spurn Head ...	1022.1	0	WNW	7	c	47	75	6	-	8	0	7-8	-	1021.4	0	WNW	5	48	85	7	-	-	-	0	0	-	0	4	cm	bq	bq	bq		
	Catterick ...	1022.5	+4	W	5	c	52	75	5	5	3	3	4-6	7-8	2800	1023.4	+10	WNW	6	52	85	8	5	-	1	2-3	2-3	2000	1	4	c	c	bcc	bcc	
	Tynemouth ...	1019.9	-2	W	8	c	52	75	7	1	3	-	4-6	7-8	3000	1020.6	+14	W	6	52	85	7	2	3	-	2-3	4-6	3000	1	4	c	c	bcc	bcc	
11	St. Abbs Head	1016.8	-2	W	8	c	53	85	7	4	7	3	2-3	3+	2500	1016.4	+8	W	7	52	85	7	4	4	-	4-6	3	2500	1	4	cmg	c	bcc	bcc	
	Leuchars ...	1017.3	+6	W	8	c	55	75	8	5	3	3	7-8	3+	3500	1020.1	+20	W	5	53	65	8	5	6	-	2-3	4-6	3200	0	*	cmg	c	bcc	bcc	
12	Rentrow (Abbots L.)	1022.3	-4	WNW	5	c	53	85	7	5	-	-	3+	3+	1400	1023.2	+6	WN	4	52	85	6	5	-	-	10	10	2500	1	*	cmg	c	bcc	bcc	
	Eskdalemuir ...	1022.0	-6	W	7	c	49	85	6	-	2	-	10	10	4500	1022.8	+2	WNW	5	48	85	6	5	-	-	3	3+	800	1	*	cmg	c	bcc	bcc	
	Point of Ayre ...	1027.4	-2	WN	6	c	51	85	8	5	7	-	4-6	3+	2000	1027.1	0	WNW	6	51	85	8	5	7	-	1	10	2000	1	4	cmg	c	bcc	bcc	
13A	Tiree ...	1023.8	+6	WNW	5	c	51	97	6	5	-	-	10	10	800	1025.0	+10	WNW	4	49	87	5	-	2	-	10	10	800	1	5	cmg	c	bcc	bcc	
13B	Stornoway ...	1020.0	+20	WNW	6	c	47	85	8	5	7	-	7-8	3+	1500	1022.5	+10	WNW	5	45	85	7	5	7	-	7-8	3+	2000	1	2	cmg	c	bcc	bcc	
15	Dalwhinnie ...	1019.4	+4	WNW	4	c	50	75	7	8	4	-	4-6	3	2500	1023.7	+20	WNW	3	44	75	8	2	4	-	4-6	7-8	4000	1	*	cmg	c	bcc	bcc	
	Aberdeen ...	1015.0	+20	WNW	5	c	54	75	7	6	-	-	3	3	1100	1018.3	+22	WNW	5	46	75	7	5	5	-	2-3	4-6	1500	1	3	cmg	c	bcc	bcc	
	Wick ...	1015.1	+30	WNW	7	c	46	75	8	3	4	0	4-6	7-8	1200	1018.1	+8	WN	4	47	85	8	5	-	-	10	10	2200	1	*	cmg	c	bcc	bcc	
16	Sumburgh ...	1011.5	+42	WNW	5	c	85	7	8	-	-	-	3+	3+	1500	1015.5	+24	WNW	6	38	65	8	8	-	-	3+	3+	2500	1	4	cmg	c	bcc	bcc	
17	Blacksod Point...	1034.3	-6	WNW	4	c	51	92	7	5	-	1	3	3	1500	1034.4	+4	WNW	3	50	97	8	4	-	-	2-3	4-6	2500	1	3	c	c	bcc	bcc	
18	Malin Head ...	1028.0	+2	W	6	c	51	92	6	5	-	-	3	3	1500	1028.5	+2	WNW	4	51	92	7	6	-	-	3	3	1500	1	5	c	c	bcc	bcc	

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 24th December 1941				17h. G.M.T. 24th December 1941				01h. G.M.T. 25th December 1941				07h. G.M.T. 25th December 1941			
III	C	wwVhN	DDFWN	C	C _M	wwVhN	DDFWN	C	C _M	wwVhN	DDFWN	C	C _M	wwVhN	DDFWN
109	83	25744	28786	5-		02856	28626	8-		25745	28785	8-		02845	60686
115	52	81834	51787	57		81834	28687	55		01834	55687	55		88834	57686
203														02838	28518
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
278				6-		52638	26658	5-		2748	60658	5-		02848	61558
279	5-	51748	85588	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	28418	50		01753	28313
575	53	01744	60465	5-		02848	28428	5-		51748	28358	5-		51645	28358
301				5-		51648	26628	5-		61748	58658				
321	57	05651	00625									50		01744	24314
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					5-		05655	25565
336	62	01626	32468	57		02644	28527								
350	57	02753	24427	50		01763	57428	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		05654	26424	5-		22647	26367
382	54	02845	26427												
438	57	02654	26417												
480	53	05657	22328	00		00790	24222	5-		02748	24228	5-		02768	26328
499	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, 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	
6 South Wales ...	Moderate or fresh northwest winds; fair, mild.
7 North Wales ...	
8 N.W. England	Fresh northwesterly winds. Cloudy with occasional rain at first; showers and bright intervals later. Mild becoming colder.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Moderate or fresh northwesterly winds. Fair at first. Some local wintry showers later. Average temperature becoming colder.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Fresh or strong northwest to north winds. Wintry showers and bright intervals.
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.

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 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

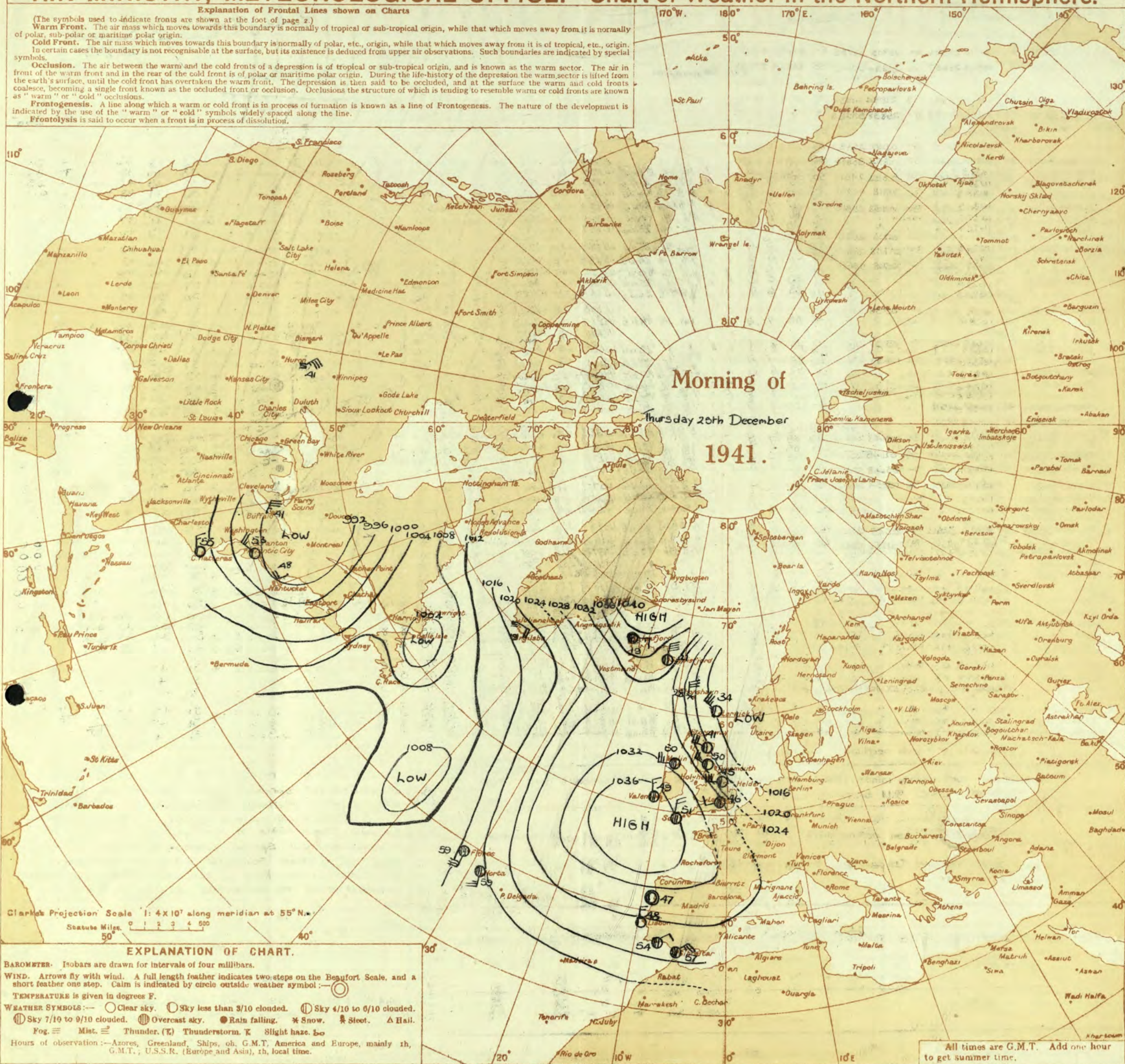
Forecasts issued at 10.30 G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.
Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.
Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.
Frontolysis is said to occur when a front is in process of dissolution.



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 25th December 1941.

No. 23,253

OBSERVATIONS at 1 hr. G.M.T. 25th December															OBSERVATIONS at 7 hr. G.M.T. 25th December															PAST 24 HOURS																				
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Height of Base (feet)	Barom. at M.S.L. (15)	Change in 3 hours.	Wind.	Temp. °F.	Humid. %	Visibility.	Cloud.			Height of Base (feet)	State of Ground.	Sea.	TEMPERATURE.		RAINFALL.		SUN-SHINE																			
					Direc.	Force.					Form.	Amount.	Height of Base (feet)								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.	24h mm.																
1	London (Kew) ...	18	1028.3	-2	WSW	2	bc	48	85	6	10	10	3200	1028.8	-8	W	3	48	85	6	10	10	3200	1	1	53	46	40	-	-	-	2.0																		
	Croydon ...	217	1028.4	-2	W	3	bc	45	85	6	10	10	2100	1028.4	-6	W	3	48	85	6	10	10	2100	1	1	53	46	40	-	-	-	2.0																		
	S. Farnborough ...	226	1028.4	-2	W	3	bc	45	85	6	10	10	2100	1028.4	-6	W	3	48	85	6	10	10	2100	1	1	52	45	42	-	-	-	2.0																		
	Boscombe Down ...	417	1030.8	+2	WNW	4	bc	45	85	6	10	10	4000	1029.7	-10	WNW	3	45	82	6	10	10	4000	1	1	50	41	33	-	-	-	0.2																		
	Thorney Island ...	10	1030.5	+2	WNW	2	bc	42	87	7	10	10	2700	1029.4	-4	WNW	3	45	82	6	10	10	2700	1	1	51	40	33	-	-	-	2.0																		
	Lymington ...	346	1027.3	-6	WNW	3	bc	46	85	6	10	10	1700	1026.1	-10	WNW	4	46	82	6	10	10	1700	1	1	51	41	37	-	-	-	2.0																		
	Manston ...	154	1026.4	-4	WNW	4	bc	48	85	6	10	10	2500	1025.2	-10	WNW	4	48	85	6	10	10	2500	1	1	51	45	40	-	-	-	1.0																		
2	Shoeburyness ...	11	1028.8	-2	WNW	4	bc	50	75	8	10	10	2500	1025.6	-10	WNW	4	49	85	6	10	10	2500	1	1	53	47	39	-	-	-	1.0																		
	Felixstowe ...	15	1025.4	-4	WNW	5	bc	48	82	6	10	10	2400	1023.9	-12	WNW	6	50	75	6	10	10	2400	1	1	51	46	43	-	-	-	0.4																		
	Gorleston ...	5	1023.5	-4	WNW	4	bc	48	75	6	10	10	800	1022.5	-10	WNW	6	50	85	6	10	10	800	1	1	50	46	44	-	-	-	0.4																		
	Mildenhall ...	19	1025.4	-6	WNW	4	bc	49	85	6	10	10	2500	1024.6	-6	WNW	5	49	85	6	10	10	2500	1	1	51	45	40	-	-	-	0.0																		
	Cranwell ...	240	1025.3	0	WNW	5	bc	50	85	6	10	10	2000	1024.5	-6	WNW	5	50	85	6	10	10	2000	1	1	51	45	40	-	-	-	0.0																		
3	Birmingham ...	535	1028.8	0	WNW	4	bc	48	85	7	10	10	1800	1027.5	-4	WNW	5	49	85	7	10	10	1800	1	1	49	48	43	-	-	-	0.0																		
	Upper Heyford ...	408	1028.8	0	WNW	4	bc	48	85	7	10	10	1800	1027.7	-2	WNW	2	48	85	7	10	10	1800	1	1	51	47	43	-	-	-	0.0																		
	Ross-on-Wye ...	223	1028.8	0	WNW	4	bc	48	85	7	10	10	1800	1028.1	-6	WNW	4	48	85	7	10	10	1800	1	1	51	47	39	-	-	-	0.0																		
5	Hartland Point ...	299	1033.1	-2	WN	3	bc	50	75	8	10	10																																						

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

~~SECRET~~
~~BRITISH SECTION~~
Friday 26th December 1941.
No. 29254

OBSERVATIONS at 13h. G.M.T. 15th December														OBSERVATIONS at 18h. G.M.T. 15th December														PAST 24 HOURS.					
District.	STATIONS. (For heights see p. 4.)	Barom. at S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather.	Temp. ° F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. 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. 0-6 (29)	Sea. 0-9 (30)	WEATHER.			
				Direc. (3)	Force. (4)					Form. Low. Med. High (9) (10) (11)	Amount. Low Total (12) (13)	Height of Base. (feet) (14)	Direc. (17)	Force (18)			Form. Low. Med. High (23) (24) (25)	Amount. Low Total (26) (27)					Height of Base (feet) (28)	7h.—13h. 15h. (37)	13h.—18h. 15h. (38)	18h.—25h. 1h.—2h. (39)	1h.—7h. 26h. (40)						
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1027.3 1026.9 1027.8 1029.1 1028.4 1026.4 1026.2	-2 0 -2 -8 -10 +2 +10	NW WNW NW NW NW N N	4 4 4 4 4 3 4	z pr c z c c c/r	50 51 51 51 47 46	65 75 75 85 85 86	5 6 8 7 9 6	9 4 - 5 3 - 7	6 9 - - 8 - 																						

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.
ka, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain.
rr, continuous rain.
<, less than (for cloud height). /gale.
☉ Solar halo. ☾ Lunar halo. ☀ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

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.

An entry "4-8" means that the cloud amount may be 4.5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky. "2+" 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 :	Alto cumulus, -Ac :	Altostratus, -As :
Stratocumulus, -Sc :	Stratus, -St :	Nimbostratus, -Ns :	Cumulus, -Cu :	Cumulonimbus, -Cb.

COLUMN 29 — STATE OF GROUND

- | | | | |
|-------------|-----------------------------------|--------------|--|
| 1 | Ground dry. | 7 | Ground covered with snow, less than 6 ins., deep but |
| 2 | wet. | | ground not frozen. |
| 3 | flooded. | 8 | covered with snow, less than 6 ins., but |
| 4 | frozen hard and dry. | | ground frozen. |
| 5 | partly covered with snow or hail. | 9 | covered with snow greater than 6 ins. deep. |
| 6 | covered with ice or glazed frost. | 10 | Fresh snow has fallen in the mountains. |
| | covered with thawing snow. | | |

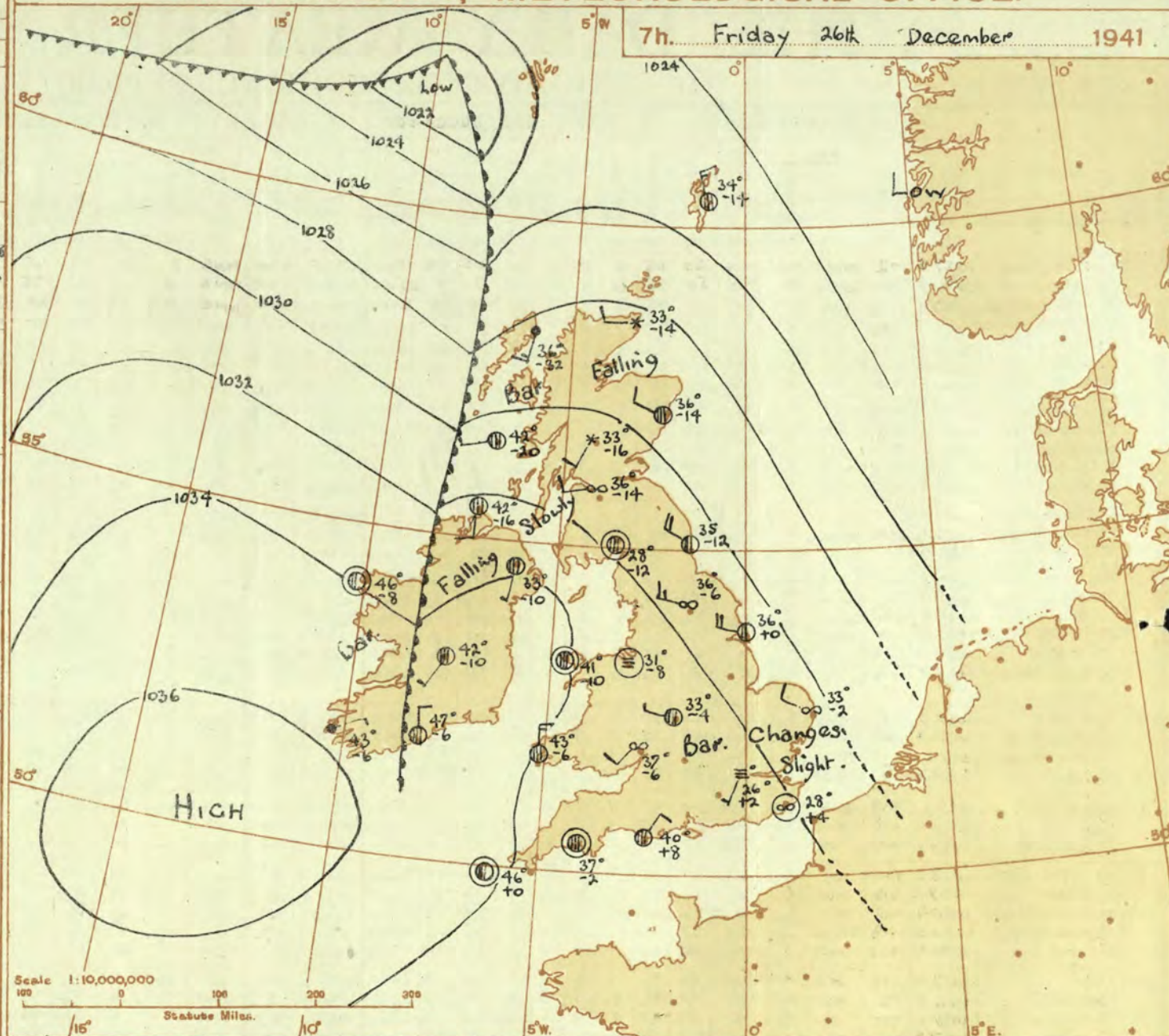
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T.	25th Dec	18h. G.M.T.	01h. G.M.T.	26th Dec	07h. G.M.T.
IIIC	C ₁ wwVhN _h DDFWN	C ₂ C ₁ wwVhN _h DDFWN	C ₃ C ₁ wwVhN _h DDFWN	C ₄ C ₁ wwVhN _h DDFWN	C ₅ C ₁ wwVhN _h DDFWN
109	8- 01854 31684	5- 01745 28545	57 02873 29427	02 72758 29328	
115	87 88834 97584	57 88844 82487	52 88844 16287		
203		5- 82836 28426	5- 02035 24425	5- 64838 20358	
206	84 02865 26285	53 01964 30114	83 02855 30226	5- 68758 24278	
210	53 01864 58584	86 02054 27586	47 01853 23284	5- 52748 24288	
220				52 51482 22328	
230	5- 02965 29915	5- 02865 30115	5- 01853 00013	57 02854 23428	
245	16 00961 63782	57 01801 24214	57 02863 26465	57 02866 28326	
260	8- 01854 30214	00 04890 25210	5- 47867 23117	52 05552 20148	
273	50 01955 29425	40 01963 20583	03 01790 22115	57 02765 24117	
279	54 00862 30313	00 00700 28200	00 00700 28200	00 00700 24116	
285		10 01743 32513		5- 02857 28327	
288	5- 05667 01417	00 05590 00010	00 05690 00000		
295	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 41490 27240	57 05564 27228	
299		50 02745 32615	00 05700 25200	50 05644 28214	
292		00 05690 22110	00 05700 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 05700 28210	07 05690 27206	
336				64 01643 24315	
350	8- 01854 65514	50 05663 02313		07 05690 18206	
368	54 02734 24926	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- 05665 03215	00 05690 00000	03 08490 00004	
438	5- 10737 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 01853 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.
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, December 26th 1941

1 S.E. England	
2 E. England ...	Light west wind veering N.W. later, fresh or strong locally on coasts;
3 E. Midlands ...	cloudy; occasional light rain; becoming mild temporarily.
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	Moderate west wind veering N.W. later, strong to gale locally on coasts;
12 S.W. Scotland & Isle of Man.	rain at first; bright intervals and wintry showers later; mild temporarily,
13A. W. Scotland	becoming cold.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	As O-7
19 S. E. Ireland	
20 S. W. Ireland	

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

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

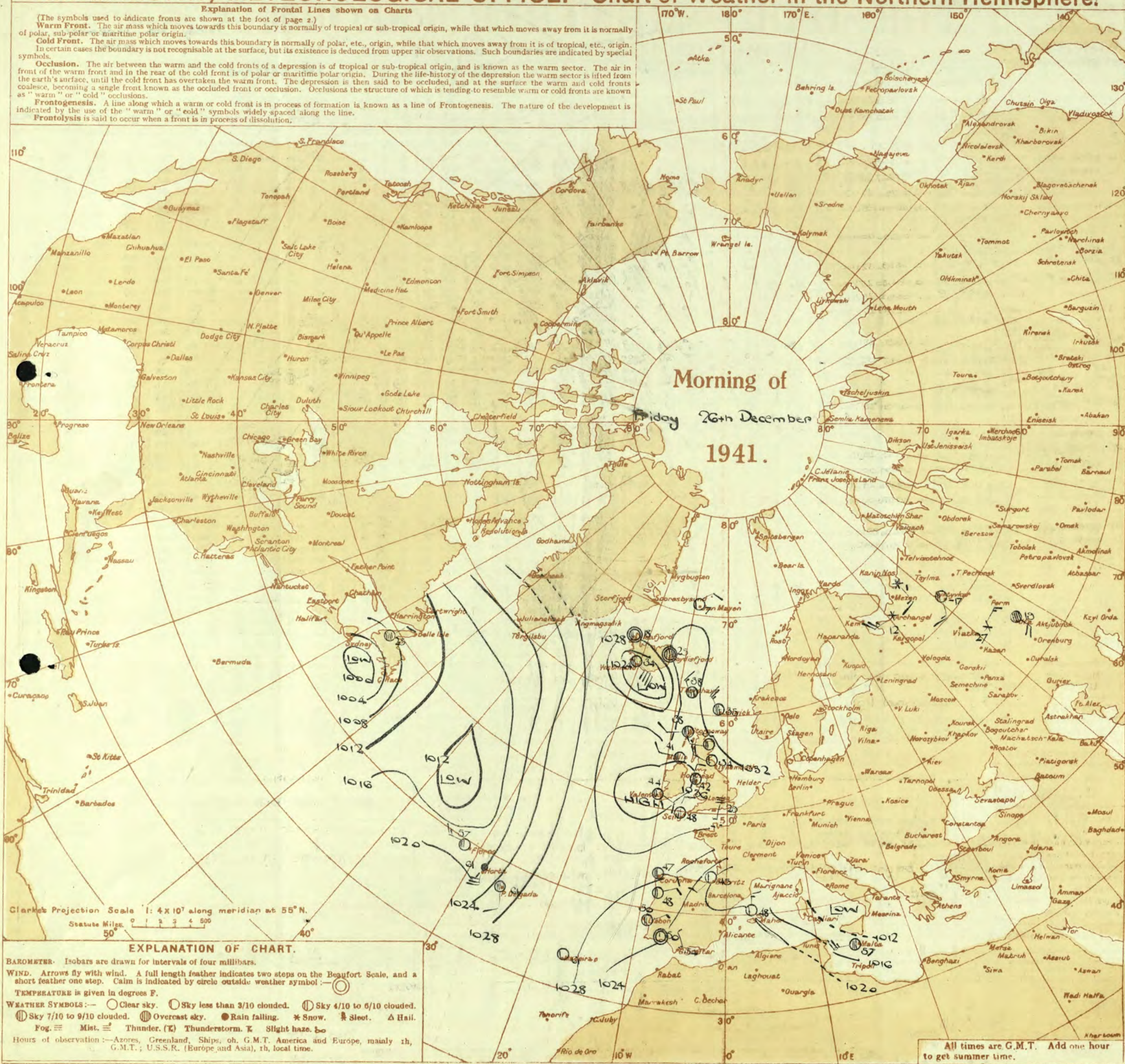
Forecasts issued at 1030 G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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
 Friday 26th December 1941.
 No. 29254

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

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

PAST 24 HOURS.

OBSERVATIONS at 7 hr. G.M.T. 24th December														OBSERVATIONS at 7 hr. G.M.T. 24th December														PAST 24 HOURS.										
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUN-SHINE Hrs. (36)		
					Direc. (3)	Force. (4)					Low. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)			Height of Base. (feet) (14)	Direc. (17)					Force (18)	Low. (23)	Med. (24)	High (25)	Low 0-10 (26)			Total 0-10 (27)	Height of Base (feet) (28)	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	1033.2	+0	SW	1	34	97	4	-	-	-	-	-	-	1033.3	-2	SW	2	30	92	6	5	-	-	9	9	4000	1	*	51	31	16	Tr	Tr	0.7		
	Croydon ...	217	1033.2	+0	SW	1	29	97	4	-	-	-	-	-	-	1033.4	+2	SW	1	26	97	4	-	4	-	-	0	9	3	50	26	21	0.4	-	0.6			
	S. Farnborough ...	226	1033.9	+6	SW	1	30	92	6	-	-	-	-	-	-	1033.5	-4	SW	1	26	92	5	-	3	-	-	0	2-3	3	51	25	16	Tr	Tr	0.0			
	Boscombe Down ...	417	1034.0	+2	SW	1	35	85	6	-	-	-	2-3	2-3	4000	1033.7	-2	NW	1	26	92	5	-	-	-	7-8	7-8	4000	3	*	51	30	27	0.6	Tr	-	1.0	
	Thorney Island ...	10	1033.4	+6	NE	1	32	92	6	-	-	-	-	-	-	1033.4	0	NW	1	28	92	5	-	3	-	1	2-3	4000	3	*	51	27	19	Tr	-	0.0		
	Lymington ...	346	1032.3	+6	NW	1	31	92	7	-	-	-	-	-	-	1032.7	+4	SW	1	28	92	5	-	2	-	2-3	4-6	4000	1	53	49	27	21	Tr	-	0.0		
	Manston ...	154	1032.2	+6	NW	2	35	92	7	-	-	-	-	-	-	1032.5	0	WS	2	31	92	5	-	3	-	1	9	4000	3	*	49	30	24	1	-	0.0		
2	Shoeburyness ...	11	1032.5	+2	WNW	3	32	92	6	-	-	-	-	-	-	1032.4	0	WNW	2	30	92	6	-	7	-	0	7-8	-	1	*	51	30	28	Tr	-	0.1		
	Felixstowe ...	15	1031.9	+4	NW	3	36	85	7	-	-	-	-	-	-	1031.9	-2	WNW	4	33	85	5	-	-	-	9	9	4000	1	3	50	32	28	1	-	1.4		
	Gorleston ...	5	1030.9	+2	WNW	3	35	85	6	-	-	-	4-6	4-6	1500	1030.8	-2	NW	2	33	92	6	-	1	-	4-6	4-6	1500	1	2	51	33	29	0.2	Tr	-	0.9	
	Mildenhall ...	19	1032.6	+6	WNW	2	30	92	7	-	-	-	1	1	2500	1032.1	-6	WSW	3	30	85	6	-	-	-	9	9	2500	0	*	50	28	17	1	Tr	-	0.9	
	Cranwell ...	240	1032.9	0	NW	2	33	85	5	-	-	-	-	-	-	1032.2	-6	NW	1	32	85	5	-	7	-	0	9	-	1	*	51	38	27	0.2	-	3.5		
3	Birmingham ...	535	1033.8	+6	NNW	2	29	97	6	-	-	-	-	-	-	1033.0	-4	WNW	1	33	85	6	-	7	6	0	7-8	-	1	*	49	32	20	0.4	-	0.5		
	Upper Heyford ...	408	1033.8	+6	NNW	2	29	97	6	-	-	-	-	-	-	1032.8	-6	NW	1	31	92	7	-	7	-	0	7-8	-	1	*	51	28	26	-	-	*		
4	Ross-on-Wye ...	223	1033.8	+6	NNW	2	29	97	6	-	-	-	-	-	-	1032.4	-6	SW	2	37	85	6	-	-	-	9	9	3000	1	*	53	36	31	2	-	2.1		
5	Hartland Point ...	299	1033.6	+2	NE	3	45	65	8	5	4	-	2-3	4-6	2500	1033.2	-2	N	3	45	65	8	5	-	9	9	2500	1	3	50	44	40	-	-	0.1			
	Bristol ...	209	1034.3	+6	S	1	35	92	5	5	3	-	4-6	7-8	3500	1033.3	-4	N	0	36	85	4	5	-	7	-	4-6	7-8	3800	1	*	53	33	25	0.3	-	1.0	
	Portland Bill ...	32	1032.9	+6	ENE	3	40	92	8	4	-	-	4-6	4-6	4000	1033.6	+8	NE	2	40	92	5	-	-	-	7-8	7-8	4000	1	4	52	38	28	-	-	0.0		
	Plymouth ...	82	1034.3	+6	S	0	39	92	8	5	-	-	7-8	Tr	3000	1034.3	-2	N	0	37	97	7	5	-	10	10	3000	1	2	51	36	31	Tr	-	0.0			
	The Lizard ...	240	1034.2	+4	NE'E	3	47	92	7	8	2	-	7-8	10	1500	1033.9	-4	NE	2	48	85	8	2	-	9	10	1500	0	3	50	41	Tr	-	-	0.0			
	Scilly (St. Mary's) ...	163	1034.7	+6	NNE	2	48	92	8	8	-	-	10	10	1200	1034.4	0	N	0	46	97	7	5	-	7-8	10	1500	1	3	51	46	Tr	-	-	0.0			
	Guernsey ...	175	1034.7	+6	NNE	2	48	92	8	8	-	-	10	10	1200	1034.4	0	N	0	46	97	7	5	-	7-8	10	1500	1	3	51	46	Tr	-	-	0.0			
6	Pembroke ...	142	1034.5	0	NNE	3	43	92	8	8	-	-	2-3	2-3	2500	1033.9	-6	N	3	43	85	8	4	-	-	7-8	7-8	2500	0	2	52	39	Tr	-	0.2			
7	Holyhead (Valley) ...	26	1033.7	+2	NNE	2	42	65	8	5	-	-	10	10	3300	1032.4	-10	N	0	41	75	7	5	-	-	9	9	2500	0	2	50	39	31	0.2	-	*		
	Chester (Sealand) ...	16	1034.1	+6	NNW	1	32	92	3	-	3	-	-	-	-	1032.6	-8	N	0	31	92	3	5	-	-	2-3	4-6	3000	1	*	51	30	24	1	-	1.7		
8	Manchester ...	235	1034.2	+6	N	0	29	97	3	-	-	-	-	-	-	1032.9	-8	N	0	30	97	3	5	-	-	4-6	4-6	2500	3	*	49	28	22	1	-	0.0		
10	Spurn Head ...	29	1031.6	+8	W	4	37	85	7	4	6	-	7-8	9	1500	1030.9	0	WNW	4	36	75	6	7	-	-	4-6	4-6	2500	0	3	48	34	Tr	-	-	0.9		
	Catterick ...	175	1033.4	+2	N	0	32	75	7	-	-	-	-	-	-	1031.8	-6	WN	3	36	65	6	5	-	-	2-3	7-8	2500	1	*	48	32	23	-	-	3.6		
	Tynemouth ...	108	1032.4	+6	NW	4	34	75	6	-	-	-	-	-	-	1030.5	-12	NW	4	35	75	6	8	-	-	7-8	7-8	2500	1	3	48	32	29	Tr	-	0.0		
11	St. Abbs Head ...	280	1032.1	+4	WNW	4	37	85	7	5	4	-	4-6	10	2500	1029.6	-10	WNW	4	37	85	7	5	-	-	7-8	10	2500	0	4	43	36	Tr	-	-	0.0		
	Leuchars ...	36	1032.6	-2	NW	3	36	85	8	5	3	-	4-6	9	4000	1030.0	-16	NW	3	36	85	8	5	-	-	10	10	3000	1	*	44	35	30	-	-	3.3		
12	Renfrew (Abbots L.) ...	19	1034.0	-2	SW	2	34	85	6	-	7	6	0	9	-	1031.0	-14	WS	2	36	85	6	5	-	-	4-6	7-8	3500	1	*	43	31	23	-	Tr	3.4		
	Eskdalemuir ...	794	1034.0	-2	SW	2	34	85	6	-	7	6	0	9	-	1031.0	-14	WS	2	36	85	6	5	-	-	4-6	7-8	3500	1	*	43	31	23	-	Tr	3.4		
	Point of Ayre ...	30	1034.2	0	NNW	2	40	65	8	-	4	5	0	1	-	1032.2	-12	NW	2	42	75	8	5	-	-	4-6	9	4000	0	2	48	30	Tr	-	-	4.6		
13A	Tipre ...	22	1033.8	0	NNW	3	48	75	8	5	-	-	9	9	2800	1030.0	-20	WSW	1	42	75	7	5	-	-	9	9	2500	0	3	46	40	Tr	-	-	0.6		
13B	Stornoway ...	80	1033.3	-4	WSW	2	38	92	8	5	7	-	7-8	10	2000	1028.4	-32	SSW	3	36	75	7	5	-	-	7-8	10	1000	1	1	40	35	Tr	-	-	0.2		
15	Dalwhinnie ...	1178	1033.3	-4	WSW	2	38	92	8	5	7	-	7-8	10	2000	1030.6	-16	SSW	2	36	85	6	5	-	-	10	10	1500	1	*	35	29	21	Tr	-	0.2		
	Aberdeen ...	79	1033.3	-4	WSW	2	38	92	8	5	7	-	7-8	10	2000	1028.4	-14	NW	2	36	85	6	5	-	-	7-8	7-8	1800	3	2	39	35	31	0.5	Tr	3.2		
	Wick ...	119	1030.8	-4	WNW	2	35	92	7	5	7	-	7-8	10	1500	1028.0	-14	NW	2	36	85	6	5	-	-	10	10	450	7	*	41	32	32	1	3	0.0		
16	Sumburgh ...	30	1028.6	-2	N	3	35	75	7	8	-	-	10	10	1800	1025.9	-14	NNW	3	34	85	6	5	-	-	9	10	1800	4	3	40	32	24	1	2	3.4		

SECRET

Saturday 27th December 1941.
No. 29255

Page 1.

**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.

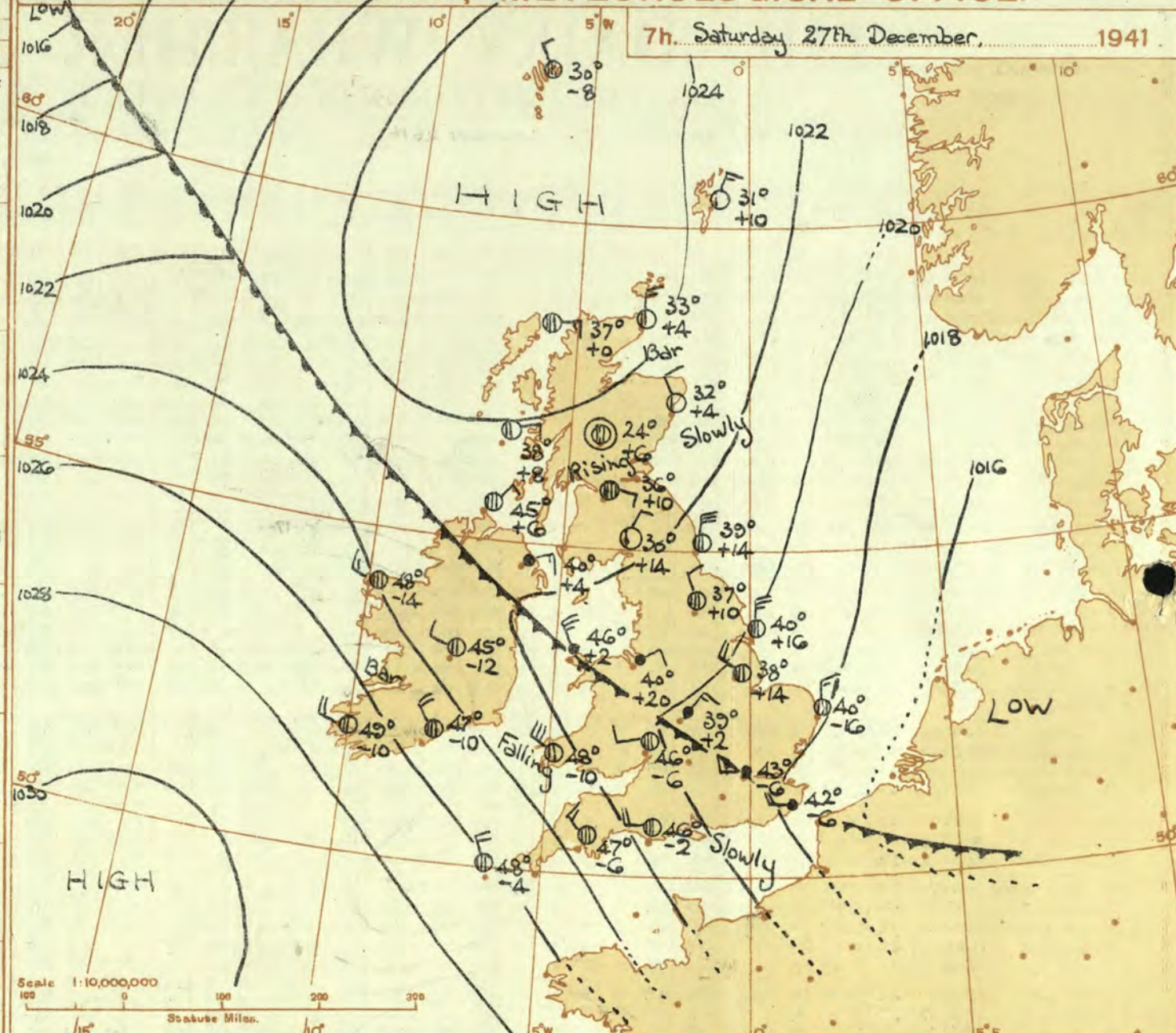
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-10 (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-10 (22)	Cloud.				Barom. at M.S.L. mb. (29)	Change in 8 hours. (30)	WEATHER.																						
				Direc. (3)	Force. 0-12 (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (11)											Form. (23)	Amount. (24)	Height of Base. (feet) (25)																									
1	London (Kew)...	1029.8	-28	SWW	2	m	39	75	4	5	3	-	7-8	9+ 4000	1025.9	-22	WSW	2	m	39	85	4	5	-	9+ 3+ 4000	1	*	offxm	cmom	bca Soc	ccq romo																			
	Croydon ...	1030.0	-26	WSW	2	z	38	75	5	3	-	-	9+ 4000	1026.4	-20	WSW	2	m	37	85	4	5	-	0 9+	-	1	*	cmz	cmom	ccq romo	ccq romo																			
	S. Farnborough	1030.7	-24	W	2	c	38	75	7	5	-	-	9+ 4000	1026.7	-14	WN	2	c	36	85	6	-	3	-	0 9+	-	1	*	bcmx	cmom	ccq romo	ccq romo																		
	Boscombe Down	1031.0	-24	W	2	c	40	75	6	5	-	-	7-8	7-8 6000	1027.8	-20	W	2	z	35	85	6	-	1	0 2.3	-	1	*	cmo	bcmo	ccq romo	ccq romo																		
	Thorney Island	1031.0	-26	WNW	1	z	37	85	5	5	-	-	9+ 4000	1027.2	-20	WNW	1	z	36	85	5	-	2	0 2.3	-	1	*	xafmm	ccq romo	ccq romo	ccq romo																			
	Lymington	1030.1	-22	WNW	2	m	35	85	4	-	7	-	0 9+	-	1026.1	-24	WSW	2	m	36	75	5	-	7	0 9+	-	1	*	bcxcm	cmz	ccq romo	ccq romo																		
	Manston	1029.9	-22	WSW	2	z	36	85	5	-	7	-	0 10	-	1025.3	-14	WS	2	m	36	85	4	-	7	0 9+	-	1	*	cbcm	cmom	ccq romo	ccq romo																		
2	Shoeburyness ...	1029.7	-20	WSW	2	c	39	75	5	5	-	-	9+ 5000	1025.3	-22	WSW	2	m	39	75	4	5	-	9+ 5000	0	*	cmo	cmom	ccq romo	ccq romo																				
	Felixstowe	1029.1	-18	WS	4	z	37	75	5	-	2	-	0 10	-	1023.9	-24	WSW	3	m	37	85	4	5	-	9+ 5000	1	3	*	cmo	cmom	ccq romo	ccq romo																		
	Gorleston	1028.1	-8	WNW	3	z	35	85	6	5	-	-	10 10 2000	1023.4	-26	WN	3	z	35	85	5	5	-	9+ 1500	0	2	*	cmo	cmom	ccq romo	ccq romo																			
	Mildenhall	1028.0	-26	SW	3	z	35	85	5	-	7	-	0 9+	-	1024.2	-20	WSW	3	z	37	85	5	-	7	0 9+	-	0	*	cmo	cmom	ccq romo	ccq romo																		
	Cranwell	1028.1	-30	W	3	f	37	85	3	5	-	-	9+ 7200	1021.8	-32	W	3	f	37	85	3	5	3	-	4.6 9+	2000	1	*	cmcff	cmf	ccq romo	ccq romo																		
3	Birmingham	1029.4	-2	W	3	z	38	75	5	5	-	-	10 10 4000	1025.1	-24	W	3	z	39	75	6	5	-	9+ 3+ 4000	1	*	c2	c2	ccq romo	ccq romo																				
	Upper Heyford	1030.1	-22	WSW	1	z	40	75	6	5	3	-	7-8 3000	1025.9	-24	WS	2	c	37	85	7	5	-	9+ 3+ 4000	1	*	cbjfcz	c2	ccq romo	ccq romo																				
	Ross-on-Wye	1030.2	-20	W	2	bc	43	65	8	5	3	-	2-3 4-6 3500	1026.2	-20	SW	2	bc	40	75	8	5	3	-	2-3 4-6 3500	1	*	ceb	ccq romo	ccq romo	ccq romo																			
4	Hartland Point	1031.7	-16	NW	2	c	45	65	8	2	4	-	7-8 7-8 2500	1029.0	-14	WNW	3	c	45	85	8	5	2	-	7-8 10 1800	0	3	*	cmom	ccq romo	ccq romo	ccq romo																		
	Bristol ...	1030.8	-24	W	3	c	42	65	7	5	3	-	4-6 7-8 4000	1027.3	-24	WNW	3	z	37	85	6	-	3	-	0 7-8	-	1	*	cmom	ccq romo	ccq romo	ccq romo																		
	Portland Bill	1030.9	-24	NW	3	c	45	75	8	2	-	-	9-8 4000	1027.5	-16	WN	3	c	44	85	8	5	-	-	7-8 7-8 4000	1	4	*	cmom	ccq romo	ccq romo	ccq romo																		
	Plymouth	1032.6	-22	NW	1	z	45																																											

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 26th December 1941				01h. G.M.T. 27th December 1941				07h. G.M.T. 27th December 1941						
III	ww	h	N _h	DDFWN	III	ww	h	N _h	DDFWN	III	ww	h	N _h	DDFWN
109	02	71528	02278	52	03745	01578	8-	01854	01574	8-	02854	04484		
115	--	74209	12479	287	85734	04487	52	02834	04487	52	02844	04326		
203				5-	02737	04367	5-	02846	04416	5-	01949	08323		
206	5-	68748	30278	5-	18648	32178	53	01854	32174	5-	01853	00013		
210	02	68538	00078	51	62446	32378	46	01853	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	50	00762	32122		
278	52	62637	24368	5-	22846	22327	5-	22848	59568	57	02855	16168		
279	57	02845	21327	67	61733	22366	5-	64658	02368	52	02764	02367		
285										27	26745	28387		
288	07	02830	20227	52	02756	20368	52	02657	31468	53	47364	32165		
295	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	22227	00	08490	26113	5-	22677	26367	5-	05657	26317		
400	50	02858	23325	57	02746	23268	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_h = 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 ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	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.
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.

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

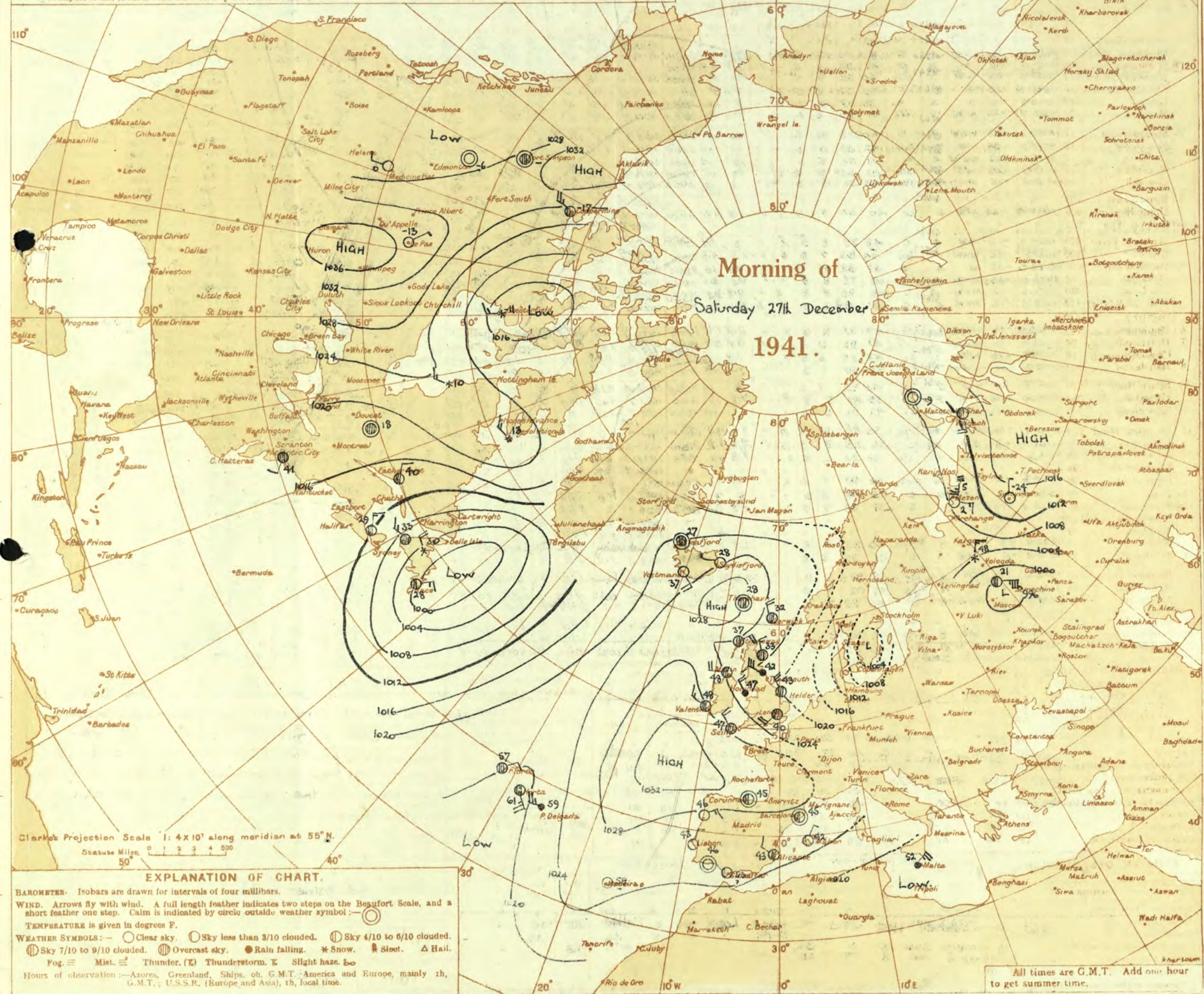
Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.
 In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

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

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

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



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 27th December 1941.

No. 29255

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.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				Sea.	TEMPERATURE.		RAINFALL.		SUNSHINE Hrs.						
					Direc.	Force.					Form.	Amount.	Height of Base (feet).	Direc.			Force.	Form.					Amount.	Height of Base (feet).	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.		Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.								
																															0-12		0-12	0-12	0-12	0-12	0-12	0-12
1	London (Kew)	18	*	*	*	*	42	*	*	*	*	*	1019.3	+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	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	-	7-8	7-8	3500																							
	Boscombe Down	417	1022.8	-26	WN	3	ido	40	92	6	5	-	97	97	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	3	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	zo	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	-	10	10	3200	1017.8	+8	N	4	rr	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	NNW	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	-	-	97	97	1600	1	3	38	36	34	-	1	0.0	
	Gorleston	5	1016.1	-22	NW/W	4	zo	41	92	5	6	-	10	10	1500	1018.1	-16	N	3	c/pr	40	75	7	8	-	-	97	97	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	NW	2	o/pr	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	+12	NW/W	4	zo	38	82	5	5	7	-	7-8	10	2500	1	*	38	37	35	-	2	0.0	
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	1020.4	+2	NE	3	rr	39	97	4	6	-	-	10	10	800	1	*	39	37	36	-	5	0.2				
	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	*	
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	1020.3	-6	W/S	2	o	46	85	8	5	-	-	10	10	2500	1	*	43	39	31	-	Tr	3.1				
5	Hartland Point	299	1025.1	-10	NW	4	c	48	75	8	3	4	9	10	1500	1023.1	-6	NW	5	c	49	75	8	8	-	-	97	97	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	97	2500	1	*	43	37	28	-	0.2	0.5	
	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	-	97	97	2000	1024.4	-6	NW	3	c	47	85	6	8	-	-	9	9	1500	1	3	49	44	41	Tr	0.1	3.0	
	The Lizard	240	1027.6	-12	NW/W	4	c	48	85	8	8	2	7-8	97	1500	1025.5	-10	NW	5	c	47	85	8	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	97	1200	0	4	48	45		0.2	0.3	0.0
	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/W	6	bc	48	92	8	8	-	-	4.6	4.6	2500	0	3	48	39		-	18		
7	Holyhead (Valley)	26	1021.9	-10	NW/N	4	c/r	47	92	8	5	-	97	97	1500	1021.2	+2	NW/N	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	W/N	5	zo	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	
8	Manchester	235	1019.2	-14	NW/N	5	cr	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	NW	5	cq	43	85	7	6	-	10	10	2500	1019.4	+16	N	5	c	40	75	7	8	1	-	7-8	97	1500	1	4	38	*		1	0.0		
	Catterick	175	1019.4	+18	NW	2	cr	39	92	6	5	2	7-8	10	1200	1021.7	+10	NNW	2	c	37	75	7	5	-	-	97	97	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/N	4	c/pr	38	85	8	5	4	7-8	97	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	5	2	7-8	10	1300	1023.4	+10	E/S	1	zo	36	75	6	5	-	-	10	10	1500	1	*	46	36	34	0.2	3	0.0	
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.7	+14	NNE	1	b	30	85	8	5	-	-	1	1	1500	3	*	43	29	26	0.4	3	0.0	
	Point of Ayre	30	1019.6	-2	NW/N	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	22	1020.5	+2	N/E	2	c	43	92	8	5	-	9	97	2500	1022.0	+8	ENE	2	bc	38	85	8	5	4	-	2.3	2.3	2500	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	97	1500	1024.7	0	ENE	3	c	37	85	7	5	7	-	2.3	97	1000	1	1	47	36	*	8	0.5	0.0	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	1025.7	+6		o	c	24	85	8	5	-	-	9	97	2500	4	*	41	20	15	7	1	0.0	
	Aberdeen	79													1023.1	+4	NNW	2	b	32	85	7	5	-	-	1	1	2500	8	2	36	28	26	7	0.2	0.0		
	Wick	119	1022.9	+8	NW	3	bc/ps	33	85	9	8	-	2.3	2.3	2000	1024.0	+4	N	3	bc	33	85	8	2	-	-	2.3	2.3	2000	7	*	36	29	26	7	0.2	3	
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	W/N	4	c/pr	48	97	7	9	-	7-8	7-8	2500	1024.2	-14																					

SECRET
Sunday 28th December 1941.
No 29256

**AIR
MINISTRY.**

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

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

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

PAST 24 HOURS.

Duration.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.					Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.					State of Ground.	Sea.	WEATHER.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				Dir.	Force.					Form.	Amount.	Height of Base. (feet).	Dir.	Force.			Form.	Amount.					Height of Base. (feet).	Low.	Med.	High.	Low.			Med.	High.	Low.	Med.	High.	Low.	Med.	High.	Low.	Med.	High.	7h.—13h. 27th.	13h.—18h. 27th.	18h.—24h. 28th.	1h.—7h. 28th.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
1	London (Kew)...	1020.5	+1.8	N	2	2	41	75	0	-	-	0	0	2500	1025.8	+1.2	N	2	2	37	85	4	-	-	0	0	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 27th December 1941				01h. G.M.T. 28th December 1941			
III	C _W	wwVhN _h	DDFWN	C _W	wwVhN _h	DDFWN	C _W
109	86	10004	24114	5-	02765	00015	5-
115				54	01944	12325	54
203				5-	02947	12417	5-
206	86	01963	24113	03	00790	00012	00
210	83	23843	19385	05	00890	00001	00
220	53	01355	13305	52	03436	14528	51
230	5-	02367	03127	5-	02968	06228	51
245	80	04364	24114	54	00861	23102	50
260	00	05690	00004	00	47390	00010	07
278	57	02964	03267	5-	51868	10428	51
279	50	01960	06215	5-	05662	06228	07
285	53	01833	32314	53	01743	32314	00
288	26	08454	23184	53	45355	4122	00
287	55	02745	22128	62	64537	10268	57
301	5-	05668	10128	5-	05578	08228	02
321	87	01753	32314	50	17564	31324	07
299	80	10844	32414	80	01843	32313	80
292	57	05664	26214	00	08490	27114	00
310	--	01636	32416				
314	23	05351	02127	01	08490	02127	02
333	57	02853	32228	52	52623	16158	52
334	--	02537	28358	--	03747	28328	
340	5-	02768	10158	5-	05568	14228	5-
136	84	10855	31386	20	00852	32112	46
336	62	01526	32368	62	63528	04368	
350	8-	05666	32358	05	05690	32214	07
308	50	02645	28228	52	62426	09468	5-
379	52	02745	28377	57	05664	00028	5-
390	8-	05667	30267	00	05590	00012	07
382	57	02765	02227	5-	05665	04226	02
438	56	10658	03326				
430				07	05590	32213	5-
400	5+	02845	30463	57	61646	02188	5-

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_W = 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 origin are indicated, wherever their characteristics are well pronounced in the following way—
— Warm Front on the Surface
— Warm Front above the ground
— Cold Front on the surface
— Cold Front above the ground
NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

GENERAL INFERENCE.

An anticyclone over 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.

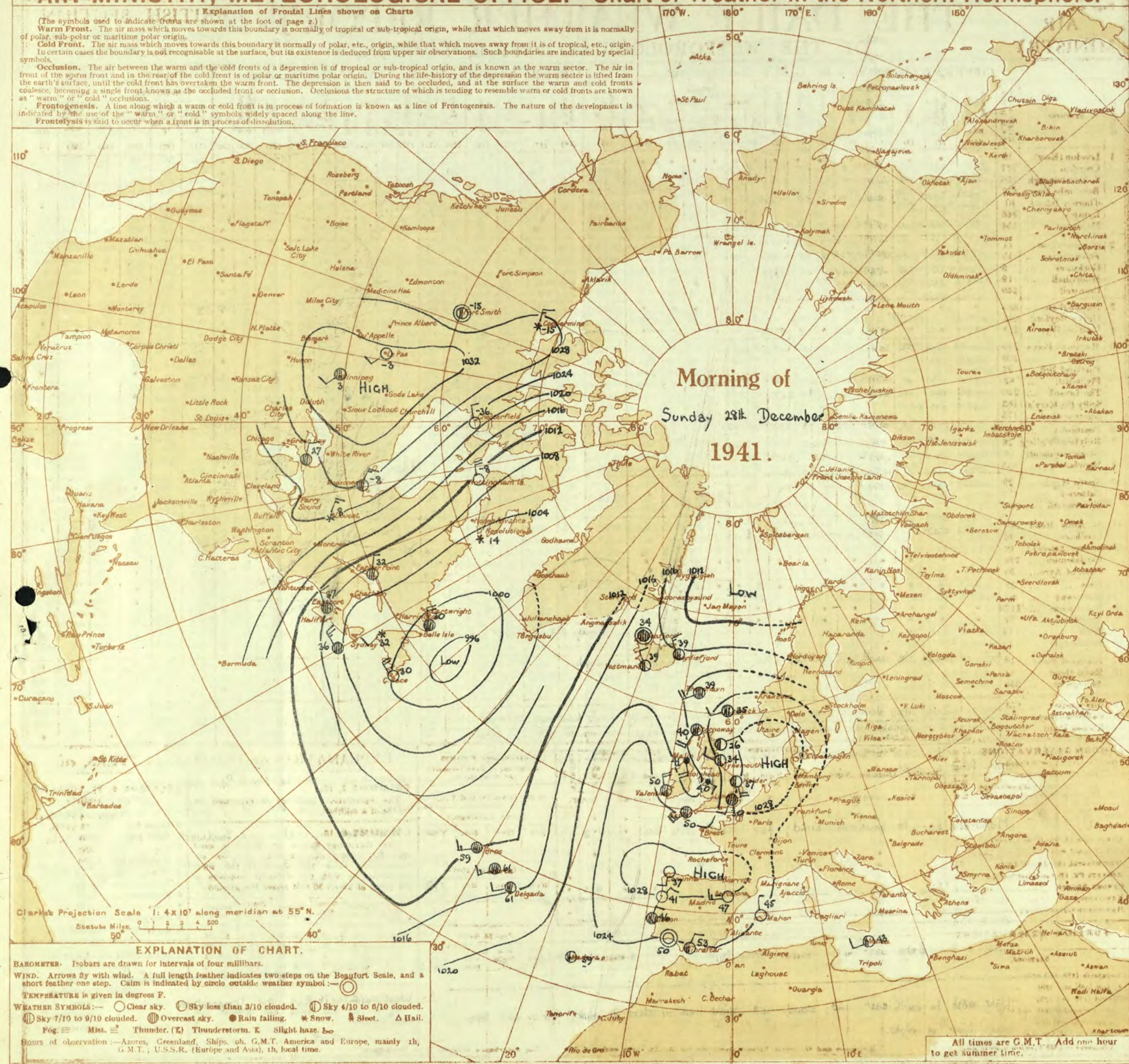
H.M.S.O. Press, Meteorological Office, Dunstable.

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

Sunday 28th December 1941.

No. 29,256

OBSERVATIONS at 1 hr. G.M.T. 28th December														OBSERVATIONS at 7 hr. G.M.T. 28th December														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (16)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (28)	Change in 3 hours.	TEMPERATURE.					RAINFALL.		Sun-shine Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					Dir.	Force.					Form.	Amount.	Height of Base (feet).			Dir.	Force.					Form.	Amount.	Height of Base (feet).			Sea.	Max. Day 7h-13h °F.	Min. Night 13h-7h °F.	Mn. on Grass °F.	Day 7h-13h mm.	Night 13h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
																																	0-15		0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9

AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

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

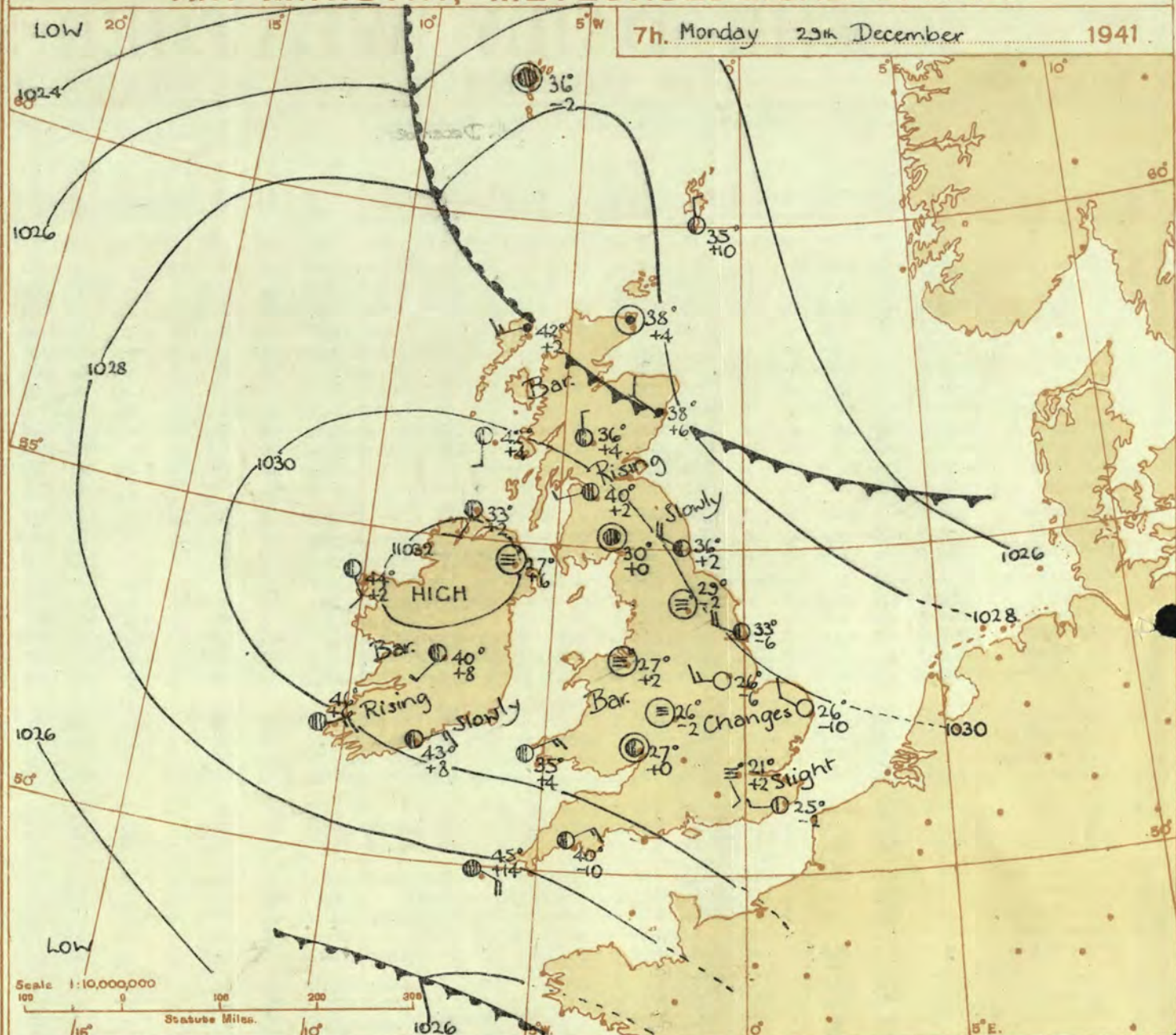
OBSERVATIONS at 13h. G.M.T. 28th December														OBSERVATIONS at 18h. G.M.T. 28th December														PAST 24 HOURS.								
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visiblity. mi.	Cloud.			Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visiblity. mi.	Cloud.			State of Ground.	Sea.	WEATHER.										
				Dir.	Force.					Form.	Amount.	Height of Base (feet)			Dir.	Force.					Form.	Amount.	Height of Base (feet)			7h.—13h. 28th.										
																										Low.	Med.	High	Low	Total	0-10	0-10	1h.—7h. 28th.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)			
1	London (Kew) ...	1029.3	+4	ESE	4	20	37	65	6	2	3	-	2-3	2-3	2500	1030.7	+8	E	3	3	32	75	4	-	-	0	0	-	1	*	bccbc	bccby	bccbc	bccbc		
	Croydon ...	1029.0	+6	SE	3	20	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	bzm	bmbcmx	c2,bzm	
	S. Farnborough	1028.6	+2	SE'E	3	c	33	65	6	5	3	9	4-6	7-8	2500	1029.9	+8	E	3	3	32	85	6	-	3	-	0	4-6	-	3	*	cxbcm	cbcm	bcm,bcm	bcm,bcm	
	Boscombe Down	1026.2	0	SE	6	c	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	c	41	55	9	1	3	-	Tr	9	2500	1028.5	+6	SE	3	3	39	65	8	-	3	-	0	9	-	1	*	cvcy	cvcy	cbcm	b	
	Lymington	1029.9	-6	ESE	4	b	34	65	7	1	-	-	1	1	2000	1031.2	+6	E	3	3	36	85	6	1	-	-	2-3	2-3	2000	3	*	bccbc	bccbc	bccbc	bccbc	
	Manston	1030.9	-2	SE	3	b	34	75	7	5	-	-	Tr	Tr	3000	1031.5	+4	SE	2	3	31	75	6	5	-	-	Tr	Tr	3000	3	*	bm,bbcm	b,bbcm	bcm,bbcm	bccbc	
2	Shoeburyness ...	1030.7	+2	SE'E	3	b	36	75	8	7	-	-	1	1	4000	1031.3	+4	SE	4	3	33	75	6	-	-	-	0	0	-	3	*	bbcm	b	bcm	bm	
	Felixstowe ...	1031.7	+4	SE	4	c	35	65	9	5	-	-	9	9	4000	1031.8	+2	SE	4	3	34	85	7	7	-	-	7-8	7-8	2600	1	*	cm,bbcm	bbcm	bcm,bbcm	cm,bbcm	
	Gorleston ...	1032.2	+6	S	4	bc	36	65	7	2	-	-	4-6	4-6	2500	1032.6	+4	SE	4	3	34	85	7	8	-	-	7-8	7-8	2500	5	*	cq,bbcm	bc	bccbc	bccbc	
	Mildenhall ...	1030.9	+10	SE'E	5	b	36	75	8	1	-	-	1	1	4000	1031.6	+4	E'S	3	3	28	85	6	-	-	-	0	0	-	0	*	bccbc	bccbc	bccbc	bccbc	
	Cranwell ...	1030.2	+2	SE	4	b	35	85	7	-	-	-	0	Tr	-	1031.2	+4	SE	3	3	29	92	6	-	-	-	0	0	-	3	*	b	bbcm	bbcm	bbcm	
3	Birmingham	1027.6	+8	SSE	3	20	35	85	5	-	3	-	0	9	-	1029.8	+12	SE	3	3	32	85	5	-	3	-	0	9	-	1	*	S,oc2	C2	Cb	b	
	Upper Heyford	1027.3	+4	SE	4	20	36	75	5	5	-	-	9	9	6000	1029.9	+12	E	3	3	30	92	4	-	4	-	0	Tr	-	1	*	S,oc2	C2	Cb	b	
4	Ross-on-Wye ...	1026.4	+10	E'S	3	20	38	75	6	5	2	-	2-3	10	3000	1028.4	+14	E	3	3	37	65	8	5	-	-	10	10	4000	1	*	S,oc2	C2	Cb	b	
5	Hartland Point	1026.3	+20	E	4	c	42	85	8	-	-	-	9	9	1500	1024.1	+12	E	3	3	41	85	8	9	-	-	9	9	1500	1	4	*	c	c	cd,bbcm	cd,bbcm
	Bristol ...	1025.3	+6	ESE	5	c	39	85	7	5	7	-	4-6	9	1000	1028.1	+10	SE	4	3	37	75	6	5	7	-	1	10	3000	1	4	*	cm,bbcm	bbcm	bcm,bbcm	bcm,bbcm
	Portland Bill	1022.9	+6	SE	6	20	42	52	7	5	-	-	10	10	2500	1025.3	+8	SE	6	3	43	92	7	5	-	-	10	10	2500	1	6	*	cm,bbcm	bbcm	bcm,bbcm	bcm,bbcm
	Plymouth	1019.6	-2	NNW	4	20	47	85	6	5	-	-	7-8	7-8	2500	1024.0	+26	ESE	6	3	43	97	6	5	-	-	10	10	800	1	4	*	cm,bbcm	bbcm	bcm,bbcm	bcm,bbcm
	The Lizard	1026.0	0	NW	3	20	47	85	8	9	6	-	4-6	4-6	1500	1022.2	+10	-	0	47	85	8	8	2	-	7-8	10	1500	1	3	*	bccbc	bccbc	bccbc	bccbc	
	Scilly (St. Mary's)	1021.5	+6	NW	4	20	49	92	8	8	6	-	4-6	7-8	1500	1022.2	+6	N'E	3	3	47	85	8	8	-	-	10	10	1500	1	3	*	bccbc	bccbc	bccbc	bccbc
	Guernsey ...																																			
6	Pembroke ...	1023.0	+14	E'S	6	c	42	92	8	8	-	-	9	9	2000	1025.5	+10	E'S	6	3	43	92	8	8	2	-	7-8	10	1500	1	4	*	cm,bbcm	bbcm	bcm,bbcm	bcm,bbcm
7	Holyhead (Valley)	1025.1	+14	ESE	1	c	42	85	7	5	-	-	9	9	3000	1027.1	+14	-	0	41	92	6	5	7	-	7-8	10	2700	1	1	*	cm,bbcm	bbcm	bcm,bbcm	bcm,bbcm	
	Chester (Sealand)	1027.3	+10	SE	3	20	39	75	6	-	3	-	0	4-6	-	1029.9	+18	SE	3	3	27	75	4	-	3	-	0	4-6	-	1	*	cm,bbcm	bbcm	bcm,bbcm	bcm,bbcm	
8	Manchester ...	1029.3	+10	S	4	20	37	75	6	-	3	-	0	7-8	-	1029.9	+12	SSE	3	3	34	75	7	-	-	5	0	1	-	1	*	c	bccbc	bccbc	bccbc	
10	Spurn Head ...	1026.5	+8	S'E	5	bc	38	75	7	-	8	-	0	2-3	-	1030.7	0	S	4	35	85	7	-	-	-	0	0	-	0	4	*	bccbc	bccbc	bccbc	bccbc	
	Catterick ...	1030.0	-2	S'E	3	bc	30	97	4	5	4	-	4-6	7-8	2500	1030.8	+4	SW'S	1	31	92	3	-	3	-	0	9	-	3	*	bccbc	bccbc	bccbc	bccbc		
	Tynemouth ...	1029.3	+2	SW	3	bc	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	*	bccbc	bccbc	bccbc	bccbc	
11	St. Abbs Head	1027.2	+4	SW	4	c	33	75	8	4	8	-	2-3	7-8	2500	1028.2	+4	WNW	3	36	75	7	5	4	-	4-6	7-8	2500	3	2	*	bccbc	bccbc	bccbc	bccbc	
	Leuchars ...	1027.9	-4	W	1	c	30	92	6	-	2	-	0	7-8	-	1028.1	+6	W	3	33	85	6	5	-	-	9	9	5700	1	*	bccbc	bccbc	bccbc	bccbc		
12	Renfrew (Abbots L.)	1028.6	+2	-	0	c	34	85	4	5	-	-	10	10	4000	1029.4	+2	-	0	32	85	3	5	-	-	7-8	7-8	4000	1	*	bccbc	bccbc	bccbc	bccbc		
	Bakdalemuir ...	1028.4	-2	-	0	c	32	75	7	-	4	8	0	7-8	-	1030.1	+8	-	0	25	85	7	5	7	1	2-3	4-6	4000	3	*	bccbc	bccbc	bccbc	bccbc		
	Point of Ayre ...	1027.0	+10	SE	4	c	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	*	bccbc	bccbc	bccbc	bccbc	
13a	Tiree ...	1027.1	+10	SSE	1	c	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	*	bccbc	bccbc	bccbc	bccbc	
13b	Stornoway ...	1026.2	+8	SW	4	c	42	92	8	5	7	-	7-8	9	2500	1027.4	+4	SW	4	44	97	7	8	7	-	7-8	10	1500	1	2	*	bccbc	bccbc	bccbc	bccbc	
15	Dalwhinnie ...	1027.4	+4	S	1	c	32	92	8	4	-	-	9	9	4000	1028.5	+6	-	0	31	85	8	5	-	-	10	10	2500	4	*	bccbc	bccbc	bccbc	bccbc		
	Aberdeen ...	1026.8	-6	WS	2	bc	35	75	6	-	2	-	0	4-6	-	1026.8	-2	WNW	2	35	85	5	5	2	-	4-6	10	1700	8	*	bccbc	bccbc	bccbc	bccbc		
	Wick ...	1025.2	-2	WSW	2	c	36	85	7	8	7	-	7-8	9	3500	1025.4	+2	W	4	37	92	7	8	3	-	7-8	9	2500	8	*	bccbc	bccbc	bccbc	bccbc		
	Sumburgh ...	1021.5	-6	W	5	c	43	75	9	5	-	-	9	9	2500	1022																				

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T.	18h. G.M.T.	01h. G.M.T.	07h. G.M.T.
IIIC, C _u , wwVhN, DDFWN	C _u , C _u , wwVhN, DDFWN	C _u , C _u , wwVhN, DDFWN	C _u , C _u , wwVhN, DDFWN
10987 02744 23565	5- 61747 27427	5- 02767 28227	5- 01863 28213
11552 25844 20487	52 02838 22487	57 81844 24386	52 25834 28387
203	5- 03838 16428	5- 01844 26364	
20653 02075 16128	53 02865 24227	53 02866 24227	5- 02858 26128
21057 02076 00028	57 02865 24357	57 22844 28467	07 51845 23468
220	5- 02655 18118		53 01853 00013
230 5- 02867 00027	5- 05667 10127	5- 05668 00028	5- 05658 00028
245 00 05666 23216		03 00790 24212	5- 05667 23257
260 53 05665 00017	1- 2-053 08472	5- 08477 20227	5- 05572 22112
273 5- 02753 12328	5- 00662 08222	03 05590 00014	5- 05664 28114
279 57 05652 06115	03 08490 31131	03 05590 00018	5- 05563 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	5- 08490 06108
301 5- 05667 12427	5- 05557 13327	03 08490 10121	04 08480 10101
321 53 01774 14314	07 01790 12315	00 08490 18220	00 08490 21103
299 80 01744 16514	00 00790 22300	5- 00751 24301	52 02754 24316
292 50 05663 14203	5- 05667 18227	00 08490 18110	03 47390 00014
310			-- 01641 32211
313 03 05660 12324	00 05660 12210	03 05590 22121	
333 5- 02776 10426	54 20764 30127	5- 58658 00008	00 05690 04110
334			-- 00690 00002
340 03 05590 13415	03 08490 11426	03 45380 12148	00 43380 00040
136 80 00862 13312	00 00890 18201	04 05690 20218	04 05590 23211
336			-- 05590 08320
350 03 05690 12412	08 05590 08313	07 05590 12204	00 05590 20101
368 62 61736 12568	52 02857 05528	04 05690 06311	
379 5- 05659 08478	00 05690 12213	00 05590 12223	00 08490 12210
390 10 01754 07414	00 05590 12200	00 05690 00015	00 08490 00000
382 5- 02777 43427	03 05690 10313	00 05590 00003	03 08490 00002
458 76 02854 10515	03 01490 10313	00 00790 04212	5- 01763 02213
430 3 02961 10527	5- 61738 10368	5- 51647 07357	5- 02748 02018
409 54 02856 31367			

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. 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 in inland districts.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	As 1-4
9 N. Midlands ...	
10 N.E. England	Light or moderate westerly to variable winds. Fair; rather cold with local frost at night.
11 S.E. Scotland	
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.

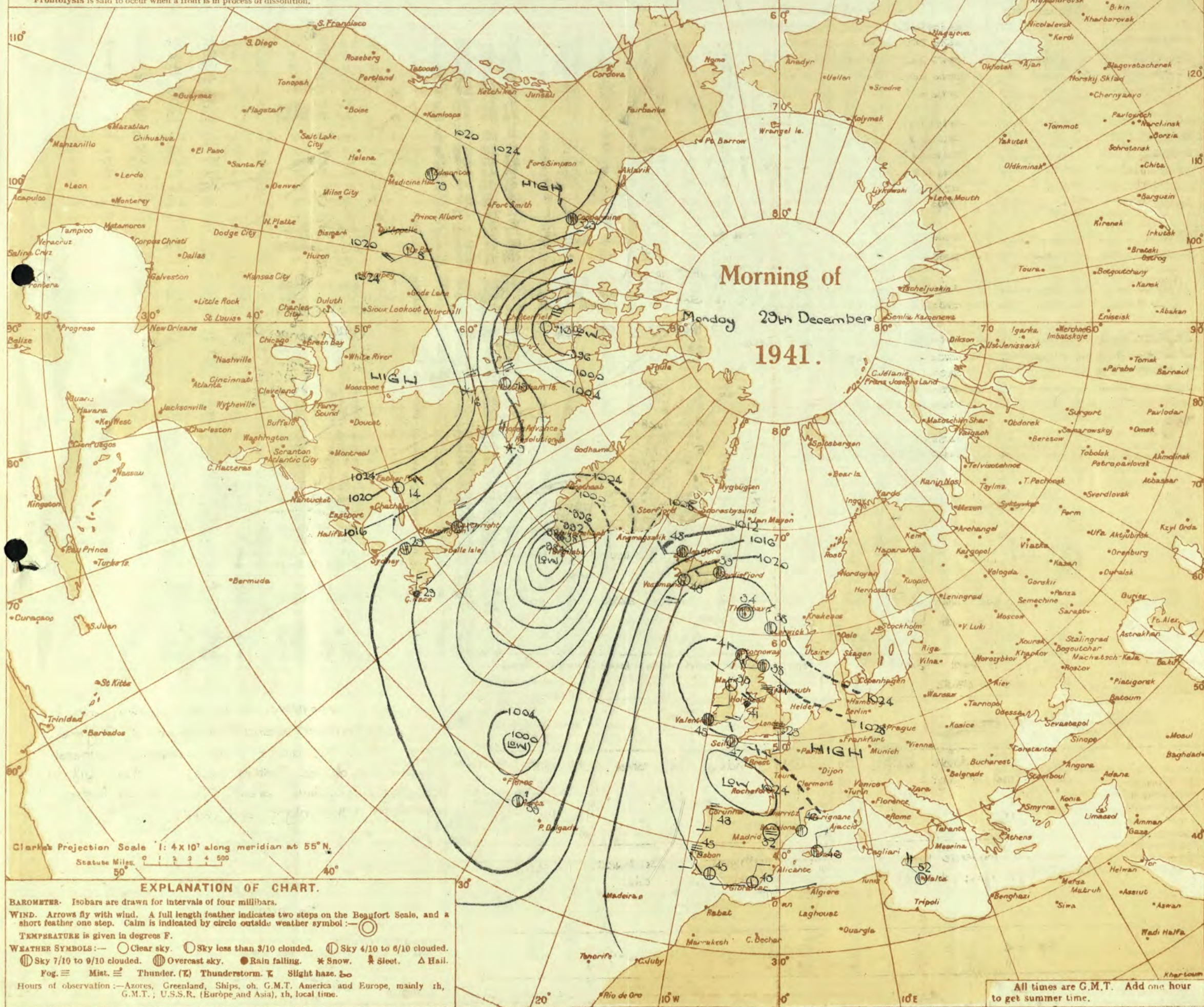
No great change.

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.



AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Monday 28th December, 1941.
No 29257.

OBSERVATIONS at 1 hr. G.M.T. 29th December														OBSERVATIONS at 7 hr. G.M.T. 29th 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.		SUNSHINE Hrs. (36)				
					Direc.	Force.					Form.	Amount.	Height of Base. (feet) (14)	Direc.			Force.	Form.					Amount.	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.		Med.	High.	Low.	Med.
1	London (Kew) ... 18	1030.8	-2	SSE	1	28	75	5	1	1	0	4-6	1031.3	0	SSW	1	26	87	3	1	1	0	0	0	3	37	25	12	-	Tr	4.9						
	Croydon ... 217	1030.8	-2	SSE	1	25	75	5	1	1	0	4-6	1031.1	+2	SSE	1	21	85	4	1	1	0	0	1	3	38	21	16	-	Tr	5.9						
	S. Farnborough ... 226	1030.9	0	1	0	25	75	5	1	1	0	4-6	1031.9	+3	SE/E	1	21	87	4	1	1	0	0	1	3	39	20	11	-	-	0.4						
	Boscombe Down ... 417	1030.2	+4	E/N	3	28	92	5	1	3	1	0	Tr	1031.1	-2	NE	1	28	75	5	1	1	0	0	1	3	40	25	18	0.5	-	0.0					
	Thorney Island ... 10	1030.1	+6	E/N	2	31	85	8	1	3	1	0	1	1030.5	+2	SE	2	26	85	8	1	4	1	0	Tr	3	41	25	19	-	-	*					
	Lymington ... 346	1031.7	+2	SSE	1	31	85	6	1	5	1	0	9	1031.1	-2	W	1	25	85	6	1	1	0	Tr	2500	3	35	24	13	-	-	6.9					
	Manston ... 154	1031.7	-6	S	2	29	85	6	1	5	1	0	2-3	1031.1	-2	1	0	24	85	6	1	1	0	Tr	2000	3	34	23	9	-	-	7.0					
2	Shoeburyness ... 11	1031.7	-2	1	0	28	85	6	1	1	0	0	1	1030.9	-4	1	0	25	87	5	1	1	0	0	1	3	37	23	15	-	-	6.3					
	Felixstowe ... 15	1031.6	-2	WSW	2	32	75	6	1	1	0	7-8	1	1030.9	-2	W/N	2	29	85	5	1	1	0	0	1	0	2	37	28	24	-	-	*				
	Corleston ... 5	1031.3	-10	E/S	1	30	85	6	1	1	0	4-6	1	1030.0	-10	W/N	2	26	87	6	1	1	0	0	1	3	37	25	23	Tr	-	*					
	Mildenhall ... 19	1031.5	-6	SE	2	23	97	6	1	1	0	10	1	1030.8	-6	WSW	2	20	87	5	1	1	0	0	1	3	37	19	9	Tr	-	5.2					
	Cranwell ... 240	1031.3	-6	SSW	2	26	92	6	1	4	1	0	2-3	1030.2	-6	W	3	26	87	5	1	1	0	0	1	3	35	24	18	-	-	5.1					
3	Birmingham ... 535	1031.2	+2	E	2	25	97	4	1	1	0	7-8	1	1030.9	-2	1	0	26	92	3	1	1	0	0	1	1	35	25	11	0.4	-	0.0					
	Upper Heyford ... 408	1031.2	+2	E	2	25	97	4	1	1	0	7-8	1	1031.3	+2	NW	1	22	97	4	1	1	0	0	1	3	36	22	21	Tr	-	*					
	Ross-on-Wye ... 223	1030.7	0	1	0	25	97	4	1	1	0	7-8	1	1030.7	0	1	0	27	97	6	1	1	0	0	1	3	39	25	19	0.1	-	0.1					
5	Hartland Point ... 299	1027.9	+10	E	3	39	85	8	5	2	7-8	10	1500	1029.5	+4	ENE	3	37	85	8	5	7	4-6	10	2500	1	4	48	36	34	-	Tr	1.5				
	Bristol ... 209	1030.5	+8	ENE	2	28	92	4	1	1	0	0	1	1031.4	+2	1	0	24	92	3	1	1	0	0	1	3	39	22	15	1	-	0.0					
	Portland Bill ... 32	1027.8	+8	SE	4	42	92	7	5	1	10	10	4000	1029.5	-10	ENE	3	20	85	6	5	7	4-6	10	3000	1	3	44	40	38	0.5	Tr	3.0				
	Plymouth ... 82	1027.6	+10	ESE	4	41	92	7	5	1	10	10	1500	1028.2	+10	E	5	45	75	7	5	1	10	10	1500	1	4	49	44	44	0.5	Tr	3.7				
	The Lizard ... 240	1025.7	+18	E/S	5	45	85	7	8	2	9	10	1500	1027.6	+14	E/S	4	45	85	8	8	1	10	10	1500	1	3	50	(45)	1	-	1.5					
	Scilly (St. Mary's) ... 163	1024.7	+8	ESE	2	47	75	8	9	7	4-6	10	1500	1027.6	+14	E/S	4	45	85	8	8	1	10	10	1500	1	3	50	(45)	1	-	1.5					
	Guernsey ... 175	1029.3	+10	E/N	4	40	85	7	5	2	7-8	10	1500	1030.6	+4	NE/E	3	35	97	7	1	1	2-3	2-3	4000	1	3	43	32	1	-	0.0					
6	Pembroke ... 142	1029.3	+10	E/N	4	40	85	7	5	2	7-8	10	1500	1030.6	+4	NE/E	3	35	97	7	1	1	2-3	2-3	4000	1	3	43	32	1	-	0.0					
7	Holyhead (Valley) ... 26	1029.6	+6	SSW	3	41	97	5	5	1	10	10	1400	1030.7	+6	N	1	37	97	4	5	8	2-3	2-3	2000	1	3	43	33	1	Tr	4	0.0				
	Chester (Sealand) ... 16	1030.3	+2	SE	2	34	75	4	5	1	10	10	2500	1031.1	+2	1	0	27	85	4	1	1	0	0	1	3	39	27	22	0.1	-	1.4					
8	Manchester ... 235	1030.9	+2	1	0	29	92	6	1	4	1	0	1	1031.5	+2	1	0	24	97	4	1	1	0	0	1	3	38	24	19	-	-	*					
10	Spurn Head ... 29	1030.8	-4	SW	4	31	75	7	1	1	0	0	1	1029.3	-6	W/N	4	33	85	7	4	1	2-3	2-3	2500	3	3	39	30	1	Tr	5.5					
	Catterick ... 175	1030.3	-8	S	1	27	97	3	1	3	0	9	1	1030.1	-2	1	0	29	92	4	5	7	2-3	2-3	4000	3	3	32	22	21	-	0.0					
	Tynemouth ... 108	1029.1	0	WNW	3	35	75	6	5	3	4-6	7-8	2500	1029.4	+2	WNW	4	36	75	6	2	1	7-8	7-8	1500	1	3	32	31	30	-	0.3	*				
11	St. Abbs Head ... 280	1027.6	-4	WNW	4	41	75	7	5	2	7-8	10	2500	1028.5	+2	S	4	42	85	7	5	4	4-6	9	2500	0	3	36	35	1	-	-	0.2				
	Leuchars ... 36	1028.1	+2	WSW	2	35	92	6	1	3	0	7-8	1	1028.9	+2	W	1	36	92	6	5	1	6	4-6	7-8	3500	3	3	34	34	30	-	-	0.0			
12	Renfrew (Abbots L.) ... 19	1030.3	+2	SW/W	2	35	85	4	5	1	0	9	5000	1030.7	+2	W/S	1	40	85	5	5	1	9	9	5000	1	3	35	30	27	-	-	0.0				
	Eskdalemuir ... 794	1030.6	+2	ESE	2	37	85	6	1	5	0	Tr	1	1031.0	0	1	0	30	97	7	5	1	10	10	1500	3	3	33	20	14	-	-	3.6				
	Point of Ayre ... 30	1030.6	+2	ESE	2	37	85	6	1	5	0	Tr	1	1031.0	+4	N	3	30	97	7	5	1	4-6	4-6	2000	0	3	41	34	1	-	-	0.0				
13A	Tiree ... 22	1029.0	+2	S	1	39	97	8	5	8	2-3	4-6	2500	1029.3	+4	S	1	42	92	8	5	1	4-6	4-6	3500	0	2	42	36	1	-	-	0.0				
13B	Stornoway ... 80	1029.3	+10	SW	2	41	97	8	7	4	7-8	9	3500	1029.5	+2	WSW	3	42	97	8	8	7	4-6	4-6	1500	1	1	44	40	1	Tr	0.0					
15	Dalwhinnie ... 1176	1030.3	+2	1	0	39	97	8	5	8	2-3	4-6	2500	1030.9	+4	N	1	36	92	7	5	1	9	9	1500	4	3	33	29	24	-	-	0.1				
	Aberdeen ... 79	1027.3	+10	W	1	38	92	8	5	7	9	10	2000	1028.5	+6	NW/W	2	38	97	4	5	1	10	10	200	<											

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

SECRET
BRITISH SECTION
Tuesday 30th December 1941.
No. 29258

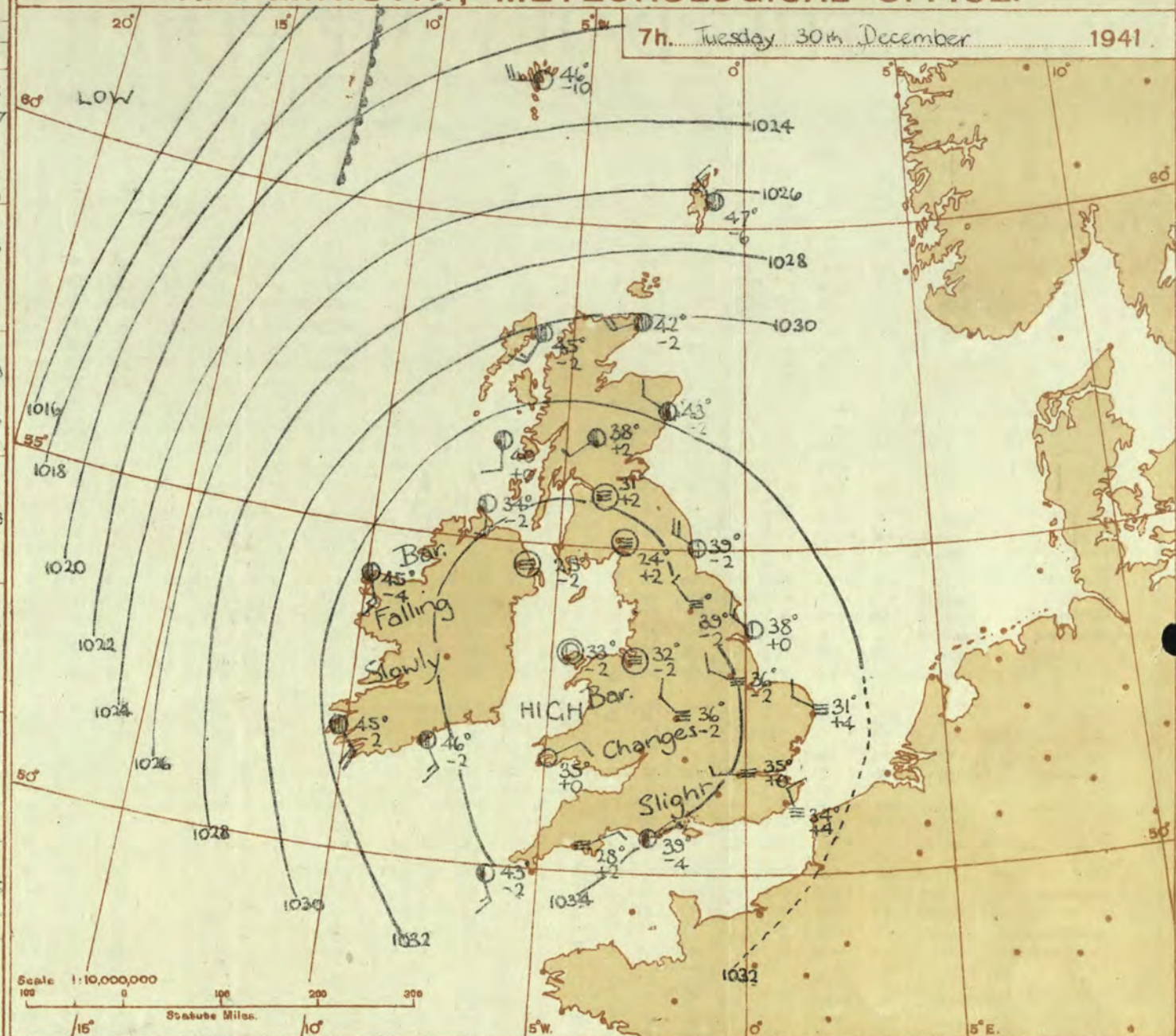
OBSERVATIONS at 13h. G.M.T. 29th December														OBSERVATIONS at 18h. G.M.T. 29th December														PAST 24 HOURS.					
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. 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.				
				Dirac. (3)	Force. (4)					Low. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)			Height of Base. (feet) (14)	Low. (23)					Med. (24)	High (25)	Low 0-10 (26)	Total 0-10 (27)			Height of Base (feet) (28)	7h.—13h. 29th (37)	13h.—18h. 29th (38)	18h.—to 29th 30th (39)	1h.—7h. 30th (40)
1	London (Kew)...	1032.3	-4	SW	2	bF	33	92	1	-	-	-	0	1032.4	+6	WSW	2	cf	35	85	3	5	2	-	9	10	4000	3	*	oFbFx	bF.cfx	cfm	cfm
	Croydon ...	1031.8	-2	W/N	1	m/f	35	75	4	-	-	-	0	1031.9	+6	W	2	m	34	85	4	5	3	-	7.8	9	3500	3	*	bmxof	bz.cfx	cfm	cfm
	S. Farnborough	1032.8	-2	W/S	1	b/f	35	75	5	-	-	1	0	1032.9	+6	W	2	cf	30	97	3	-	3	-	0	9	-	3	*	brffz	bz.cfx	cfm	cfm
	Boscombe Down	1032.2	+2	-	0	m	35	75	4	-	-	-	0	1033.5	+8	NW/N	1	m	31	85	4	-	-	-	0	0	-	3	*	bm	bm	cfm	cfm
	Thorney Island	1032.3	-6	NNE	1	b	39	65	7	-	4	-	0	1032.7	+6	NW	1	m	32	85	4	-	-	-	0	0	-	3	*	bx	bm	cfm	cfm
	Lympne	1031.4	-6	NW	2	z	34	75	6	-	-	-	0	1031.2	+4	NW	2	cf	33	85	3	5	-	-	9	9	2500	3	§ 2	bmof	bz.cfx	cfm	cfm
	Manston	1029.7	-10	W/N	2	z	36	65	5	-	-	-	0	1031.1	+4	WNW	2	cf	35	85	2	5	-	-	10	10	1700	3	*	bmxof	bz.cfx	cfm	cfm
2	Shoeburyness	1031.5	-6	WNW	3	f	37	65	3	-	-	-	0	1031.3	+4	W/N	3	c	38	85	5	5	-	-	9	9	7200	3	*	bmof	bz.cfx	cfm	cfm
	Felixstowe	1030.2	-12	WNW	4	z	35	75	5	-	-	-	9	1030.6	+4	NW	4	m	37	85	4	5	-	-	10	10	2600	1	2	bmof	bz.cfx	cfm	cfm
	Gorleston	1029.4	-6	WNW	3	c	33	85	6	5	-	-	9	1030.1	+6	NW/N	2	m	36	85	4	5	3	-	7.8	7.8	1500	3	2	bz.cfx	bz.cfx	cfm	cfm
	Mildenhall	1030.9	-4	WSW	2	z	32	97	5	5	-	-	9	1031.3	+6	W	2	cf	34	85	3	5	-	-	10	10	2500	0	*	bmof	bz.cfx	cfm	cfm
	Cranwell	1031.0	-2	W	2	bef	35	85	3	-	3	-	0	1031.7	+4	W/N	2	ft	37	85	3	-	-	-	10	10	1500	1	*	bz.cfx	bz.cfx	cfm	cfm
3	Birmingham	1031.9	+4	NW	3	bef	35	75	3	-	3	-	0	1033.3	+8	NW	3	cf	35	85	3	5	3	-	4.6	9	4000	1	*	fbc	bz.cfx	cfm	cfm
	Upper Heyford	1031.9	+2	WNW	1	z	34	75	6	-	4	-	0	1032.6	+8	NW	3	m	33	92	3	5	-	-	9	9	4800	1	*	bmof	bz.cfx	cfm	cfm
4	Ross-on-Wye	1032.4	0	W/S	1	z	34	75	5	-	1	-	0	1033.3	+6	-	-	-	31	92	3	5	-	-	9	9	0	1	*	bmof	bz.cfx	cfm	cfm
5	Hartland Point	1032.1	+8	ENE	2	bc	40	75	8	4	-	-	2-3	1033.2	+6	ENE	2	bc	40	75	8	1	-	-	2-3	2-3	4000	1	3	bc	bc	cfm	cfm
	Bristol ...	1033.1	+4	-	-	bef	34	75	3	5	-	-	2-3	1033.8	+10	-	0	bft	33	85	3	-	-	-	0	0	-	3	*	bff	bc	cfm	cfm
	Portland Bill	1031.7	+6	ENE	4	bc	41	75	8	5	-	-	2-3	1032.7	+8	ENE	3	b	37	85	8	-	-	-	0	0	-	1	3	bc	bc	cfm	cfm
	Plymouth	1032.0	+6	E/S	2	b	43	75	8	1	-	-	9	1033.8	+10	E	2	bft	36	85	3	-	-	-	0	0	-	0	2	cm	cm	cfm	cfm
	The Lizard	1030.5	+8	E/S	4	c	43	85	8	2	-	-	9	1033.8	+10	E	4	bc	43	65	8	8	6	-	4.6	4.6	2500	0	4	c	bc	cfm	cfm
	Scilly (St. Mary's)	1030.9	+10	ESE	3	c	48	85	8	8	-	-	10	1032.1	+12	ESE	2	bc	42	86	8	8	3	-	4.6	4.6	1500	1	3	c	bc	cfm	cfm
	Guernsey	1030.9	+10	ESE	3	c	48	85	8	8	-	-	10	1032.1	+12	ESE	2	bc	42	86	8	8	3	-	4.6	4.6	1500	1	3	c	bc	cfm	cfm
6	Pembroke	1033.1	+6	NE	3	z	41	85	6	7	7	-	2-3	1033.7	+4	E/S	2	z	40	97	6	1	-	-	2-3	2-3	4000	1	2	bemo	bemo	cfm	cfm
7	Holyhead (Valley)	1032.7	+4	-	0	z	40	92	5	-	3	-	0	1033.6	+10	NE/E	1	cf	35	97	2	5	-	-	9	9	1800	1	0	bm	bemo	cfm	cfm
	Chester (Sealand)	1032.9	+6	NW	1	cf	36	75	3	5	3	-	2-3	1033.6	+6	-	0	cf	27	92	3	5	7	-	7.8	10	2000	1	0	bz.cfx	bz.cfx	cfm	cfm
8	Manchester	1032.7	0	-	0	bef	31	92	2	-	3	-	0	1033.7	+8	-	0	cf	32	92	2	5	3	-	4.6	4.6	5000	3	*	cpfbv	bz.cfx	cfm	cfm
10	Spurn Head	1029.8	+2	W/N	4	m	39	85	4	5	2	-	7.8	1030.8	+8	NW/W	3	c	39	92	5	5	2	-	7.8	10	800	1	3	cm	cm	cfm	cfm
	Catterick	1031.3	0	NW	4	z	43	75	6	3	-	-	0	1032.5	+10	NW	1	cf	40	85	3	5	7	-	7.8	9	2200	1	0	cm	cm	cfm	cfm
	Tynemouth	1031.3	+4	W	4	z	41	75	5	2	3	-	1.6	1031.8	+6	WNW	4	z	41	85	5	5	-	-	10	10	1500	1	3	cm	cm	cfm	cfm
11	St. Abbs Head	1030.2	+6	NW	4	z	42	92	7	5	7	-	7.8	1031.6	+8	W	2	z	42	92	5	5	7	-	4.6	4.6	2500	1	2	cpr	cpr	cfm	cfm
	Leuchars	1030.7	+8	WSW	1	c	42	92	8	5	-	-	9	1032.1	+14	W	1	bc	39	85	7	4	6	-	1	4.6	4500	1	*	cm	cm	cfm	cfm
12	Reafrow (Abbots L.)	1032.2	+2	W/S	2	z	45	75	5	3	6	-	2-3	1033.0	+6	W	2	z	38	92	5	-	3	-	0	0	-	1	*	cm	cm	cfm	cfm
	Eskdalemuir	1031.2	0	NW	2	bc	41	85	7	5	4	-	2-3	1033.4	+14	-	0	b	34	92	7	-	4	-	0	0	-	1	*	cm	cm	cfm	cfm
	Point of Ayre	1032.6	+4	NW	2	c	44	85	8	5	3	9	2-3	1033.3	+4	NW	3	c	45	85	8	5	3	-	7	9	1800	0	2	bc	bc		

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T.	18h. G.M.T.	01h. G.M.T.	07h. G.M.T.
III. C.	wwVhN _h DDFWN	III. C.	wwVhN _h DDFWN
109 54	02764 00015	5- 02748 20123	5- 02758 24428
115 87	81334 24387	53 02844 24327	52 02844 24427
203		5- 02838 24428	7- 02845 20425
206 83	81865 26176	57 02766 26187	52 02865 24488
210 52	24856 23258	57 02866 22228	53 02790 20325
220 50	01754 23214		
230 87	05856 22127	8- 05755 00026	00 05680 00000
245 5-	61946 24167	53 22656 27167	00 05620 26100
260 05	08490 22113	00 47290 00040	5- 43877 22147
270 83	00752 29213	5- 05665 26215	00 05630 14100
279 50	05566 20126	03 47330 20116	03 45230 00045
285 53	02863 32326		5- 00852 32403
288 5-	05567 19127		5- 57258 22248
296 03	05590 24101	00 47290 08140	00 45130 11240
301 5-	43376 28146	00 45130 11140	00 45000 00040
321 03	46390 26244	50 46264 26144	53 46866 27247
299		8- 02746 26216	50 47271 24141
292 53	08466 25147	51 08465 28168	57 08453 00063
310 --	01634 32314		-- 01640 26316
314 03	43390 24245	07 45290 26148	5- 43364 28144
333 03	01590 00002	00 05630 26200	00 05630 00000
334 --	05554 02215	00 05654 04215	-- 01672 02003
340		07 47330 00047	5- 47218 12148
136 5-	22467 24367	53 22448 24367	5- 47303 28266
336 50	01752 12312	50 01743 04313	-- 48100 24249
350		53 47364 26227	5- 45807 24247
368 00	05590 04110	00 08490 30100	00 45300 00040
379 50	05661 24301	53 05563 22316	03 45330 30347
390 5-	47366 25206	53 45365 26248	5- 45238 26358
382		53 08474 26116	5- 47358 00048
438			8- 02765 02715
430 00	00790 32101	00 08490 28100	5- 08478 32318
409 10	05861 06211	50 05761 06101	00 05630 00000

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. 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.

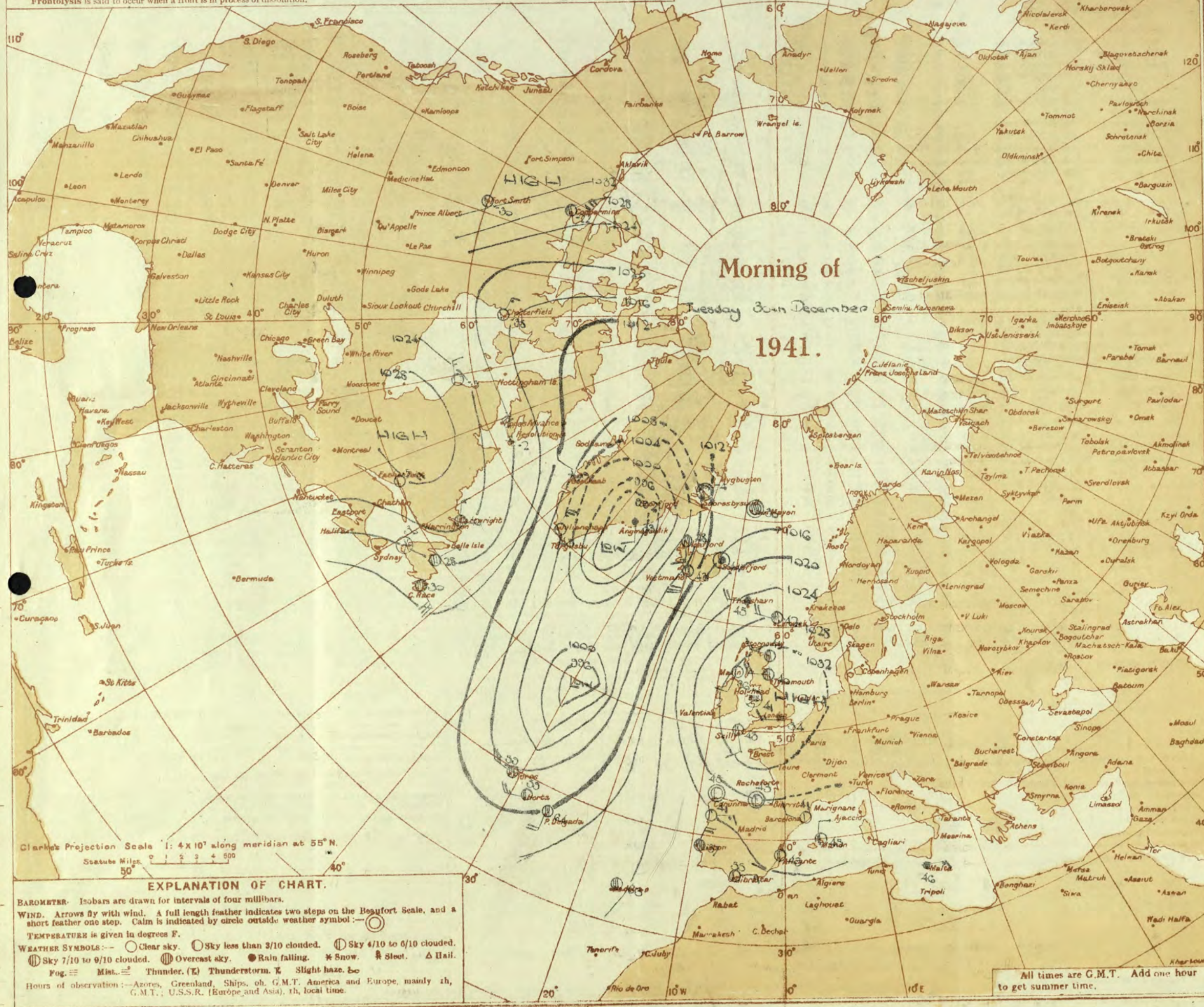
Forecasts issued at 1030 G.M.T.
H.M.S.O. Press, Meteorological Office, Dunstable.

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



THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

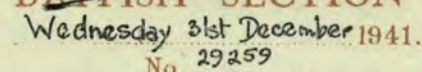
BRITISH SECTION
Tuesday 30th December 1941.
No 29258

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.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.			Temp.			Humid.			Visibility.			Cloud.				Barom. at M.S.L.			Change in 3 hours.			Wind.		Weather.		
-----------	--	--	-----------	--	--	------------------------------	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--	-------	--	--	--------	--	--	-------------	--	--	--------	--	--	--	------------------	--	--	--------------------	--	--	-------	--	----------	--	--



OF THE METEOROLOGICAL OFFICE, LONDON.

PAST 24 HOURS.

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.

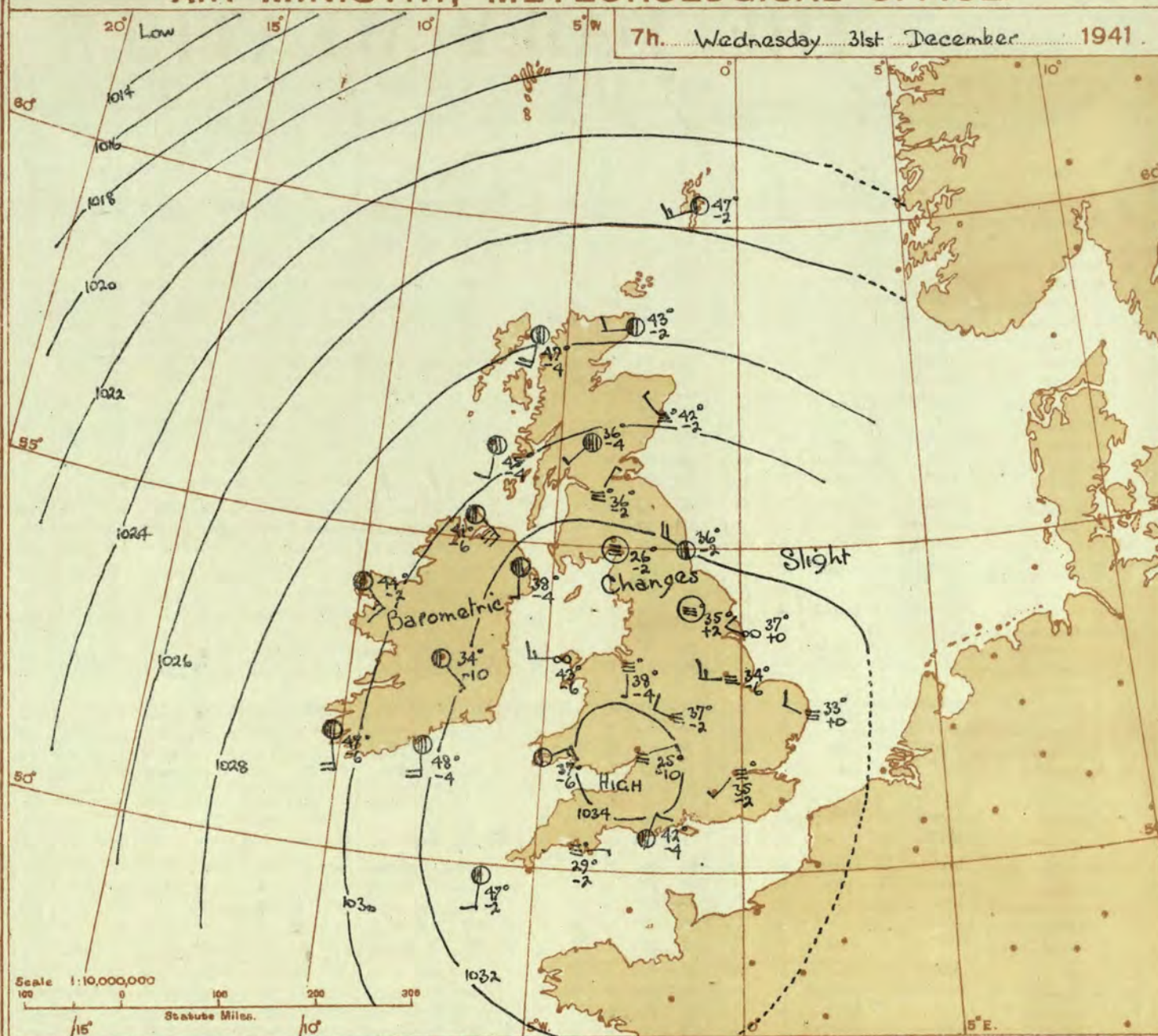
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 30th Dec.	18h. G.M.T.	01h. G.M.T. 31st Dec.	07h. G.M.T.
III, C _M , ww, Vh, N _h , DDFWN	C _M , ww, Vh, N _h , DDFWN	C _M , ww, Vh, N _h , DDFWN	C _M , ww, Vh, N _h , DDFWN
109 8- 25847 23467 5- 52658 24368 5- 02757 23427 5- 51758 22428			
115 51 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			
210 5- 02866 20326 57 02864 20327 57 02764 20323 5- 02768 22228			
220	52 02645 20428		52 02445 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- 45167 00047 5- 45165 12146 5- 45058 12148 53 05653 28147			
321 07 41490 25145 00 45200 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 -- 01034 24344			
314 05 05690 28247 00 47200 26112 5- 43078 24248 5- 45268 26148			
333 7- 01554 20114 00 05490 00004 5- 47358 00018 5- 51668 00058			
334 -- 46109 00014 -- 04447 30217			
340 5- 05548 01148 5- 45358 26148 5- 05558 16148 5- 05568 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 47200 32140 -- 46009 00049			
379 5- 05657 30127 03 08490 28125 00 05590 32220 5- 05558 32328			
390 03 47390 26244 5- 45258 27248 5- 45267 26247 5- 43368 24248			
382 5- 41458 26248 5- 45368 00048 00 45000 00040 5- 08458 00048			
438 50 04401 32141			5- 02657 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_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 31st December 1941



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.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Cold with frost morning and night.
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 ...	
8 N.W. England	As 1-4.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light to moderate west to southwest winds; fair but mainly cloudy; rather mild in most areas.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N.E. Scotland	
16 Orkneys and Shetlands	Moderate southwest winds; cloudy; some occasional slight drizzle; mild.
17 N.W. Ireland	
18 N.E. Ireland	
19 S.E. Ireland	
20 S.W. Ireland	Light or moderate south wind; fresh locally; cloudy, 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 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
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.

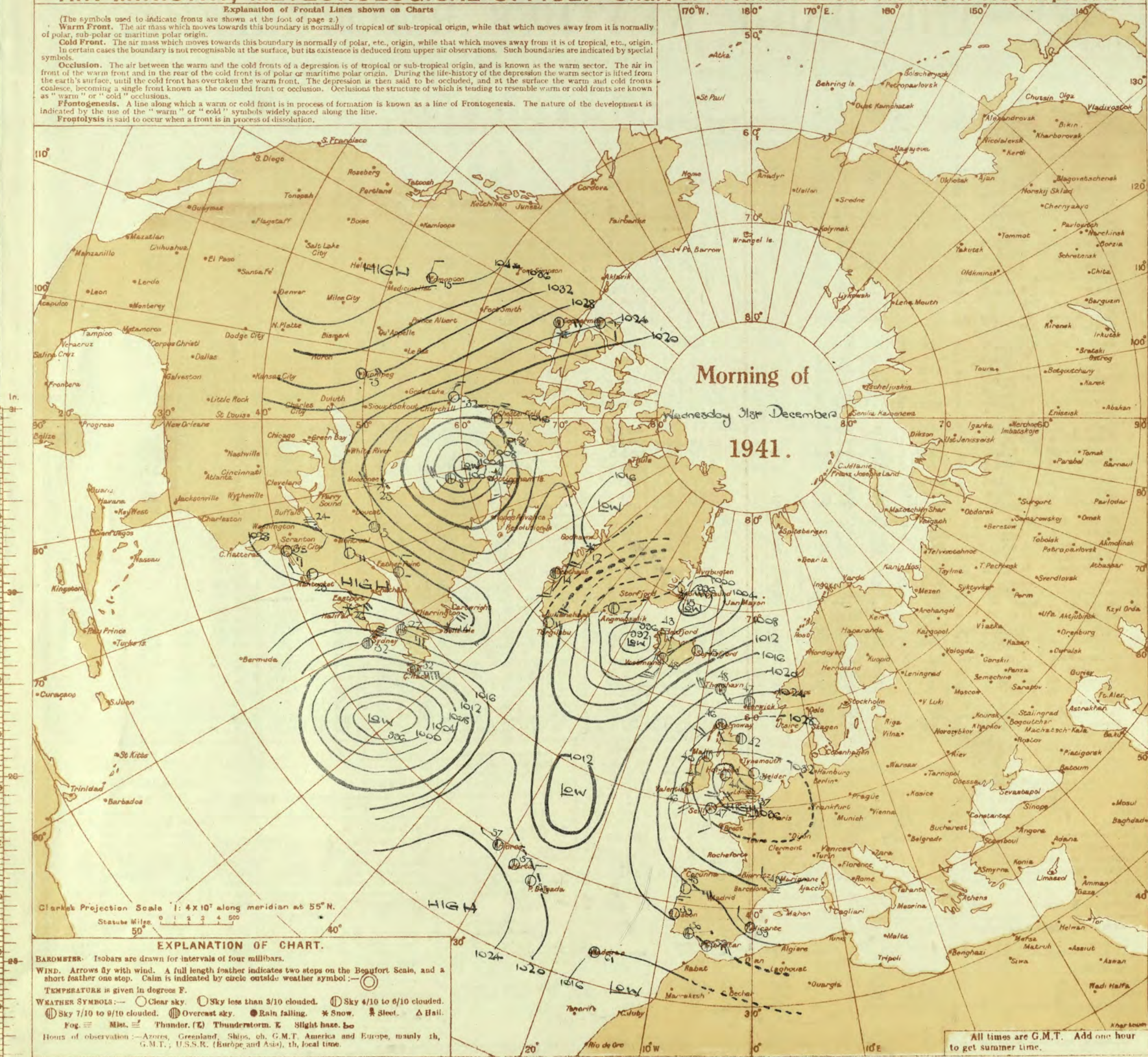
H.M.S.O. Press, Meteorological Office, Dunstable.

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. 23259

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 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				Barom. at M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				Barom. at M.S.L. (29)	Change in 3 hours.	TEMPERATURE.		RAINFALL.		SUN-SHINE Hrs. 30th						
					Direc.	Force.					Form.	Amount.	Height of Base (feet)	Direc.			Force.	Form.					Amount.	Height of Base (feet)	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.			Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.								
																																Low.		Med.	High.	Low.	Med.	High.	Low.
1	London (Kew) ... 18	1034.0	-2	W'S	1	38	97	3	5	10																													

TERMS OF SUBSCRIPTION. { single Copies, 1d. each: by post 1½d.
2½ per month: 8/6 per quarter: 25/- per year.

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

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