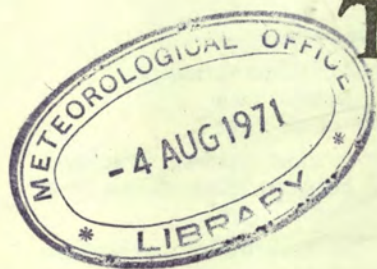


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DUPLICATE



# THE DAILY WEATHER REPORT

BRITISH SECTION

1st July to 30th September

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.).	7h. local time.
30° E. to 170° W.	oh. or 1h. 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:—

- Two weather maps (Scale 1 : 20,000,000) for Europe, the Mediterranean and Eastern Atlantic for 18h. yesterday and 7h. to-day.
- Two inset maps (Scale 1 : 20,000,000) for Northwest Europe for 13h. yesterday and 1h. to-day.
- Table of meteorological observations taken at about 80 stations, mostly on the Continent of Europe (not for the British Isles).
- 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:—

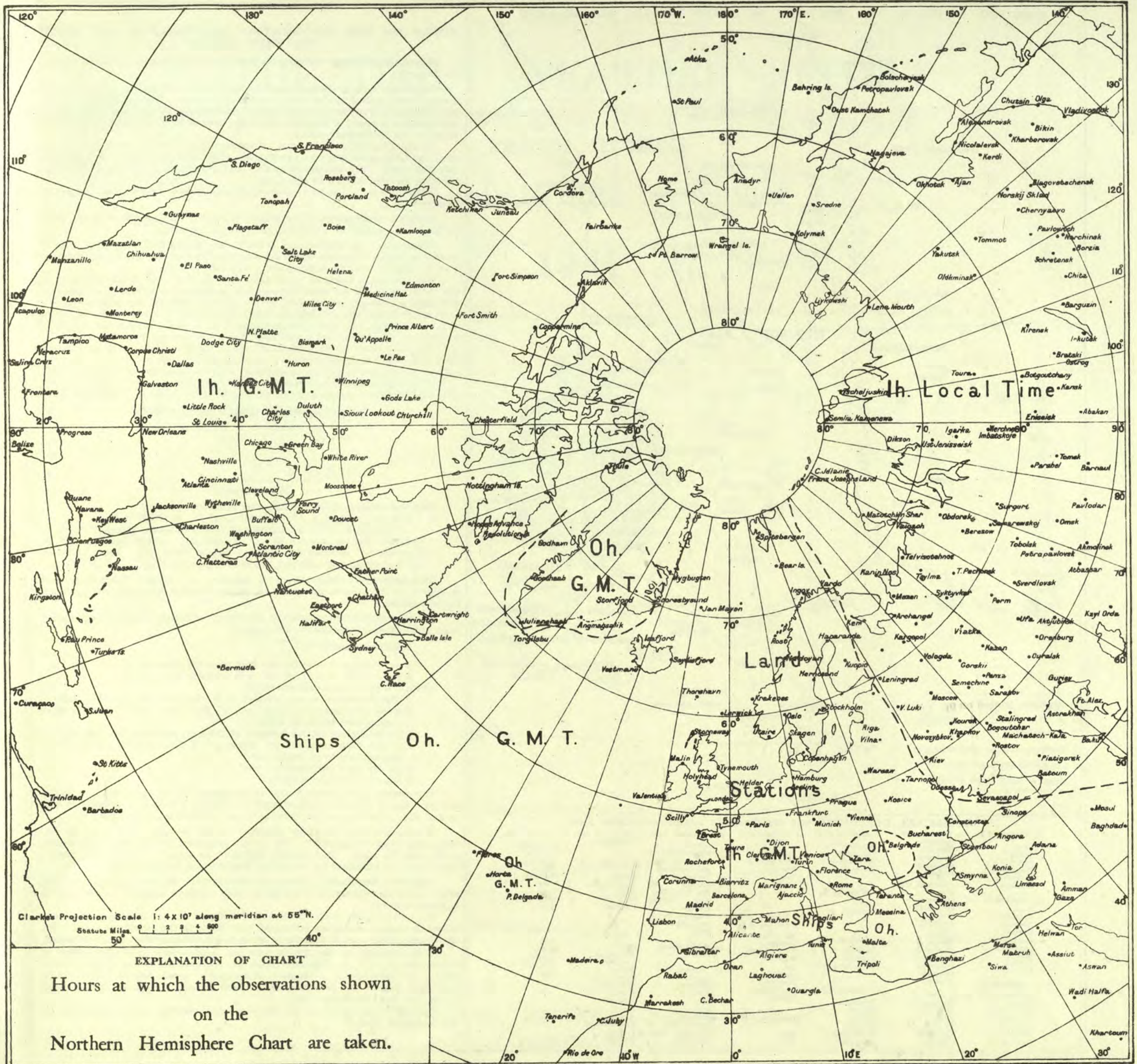
▲ North Cone hoisted:

▼ 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.

\* Not.—The public issue of Gale Warnings is suspended for the duration of the war.







## FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND



## FORECAST DISTRICTS and the Counties comprised within them

1. England, S.E. Kent. Sussex. Surrey. Hampshire. Berkshire. Wiltshire.	4. Midlands, W. Gloucester. Hereford. Worcester. Shropshire. Stafford.	8. England, N.W. Cheshire. Lancashire. Westmorland. Cumberland.	11. Scotland, S.E. (cont.) Linlithgow. Clackmannan. Kinross. Fife. Forfar.	13. Scotland, N.W. Hebrides. Western parts of Inverness, Ross and Cromarty, Sutherland. (Boundary line runs from Ran- noch Station through Fort Augustus, Beaulie and Laig to Mel- nich.)	16. Orkneys and Shetlands.	19. Ireland, S.E. Waterford. Wexford. Kilkenny. Carlow. Wicklow. Offaly. Laois. Kildare. Dublin.
2. England, E. Essex. Middlesex. Hertford. Bedford. Huntingdon. Cambridge. Suffolk. Norfolk. Lincoln.	5. England, S.W. Dorset. Somerset. Monmouth. Devon. Cornwall.	9. Midlands, N. Derby. Yorkshire, W.	12. Scotland, S.W., and Isle of Man. Isle of Man. Dumfries. Kirkcudbright. Wigtown. Ayr. Lanark. Renfrew. Dumbarton. Stirling.	14. Mid Scotland. Perth.	17. Ireland, N.W. Galway. Roscommon. Mayo. Sligo. Leitrim.	20. Ireland, S.W. Cork. Kerry. Limerick. Tipperary. Clare.
3. Midlands, E. Buckingham. Oxford. Northampton. Warwick. Leicester. Rutland. Nottingham.	7. Wales, N. Montgomery. Merioneth. Flint. Denbigh. Carmarvon. Anglesey.	10. England, N.E. Yorkshire, N. & E. Durham. Northumberland.	15. Scotland, N.E. Kincardine. Aberdeen. Banff. Elgin. Nairn. Caithness. Eastern parts of Inverness, Ross, Sutherland.	18. Ireland, N.E. Meath. West Meath. Longford. Cavan. Fermanagh. Monaghan. Louth. Armagh. Down. Antrim. Londonderry. Tyrone. Donegal.		

## NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

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

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

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

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

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

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

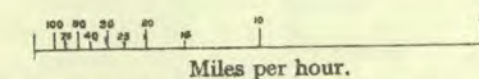
The wind at a height of 1,500–2,000 feet above ground usually blows along the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, e.g., for isobars 1 inch apart for the chart on Page 2 the speed of the upper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

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

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

## GEOSTROPHIC WIND SCALE FOR

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



This scale applies under the following conditions:—

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

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

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

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

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

$$x = f - .444(t - t') \text{ for wet bulb readings above } 32^\circ \text{ F.}$$

$$x = f - .400(t - t') \text{ for wet bulb readings below } 32^\circ \text{ F.}$$

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  
 $t'$  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.



AIR  
MINISTRY.

## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY  
SUPPLEMENT,

September 1941 No. 297.

The month was marked by the prevalence of local night and morning fog which was reported from some part of the country on every day except one, and on several occasions fog persisted throughout the day in southwestern coastal districts.

Up till the last week pressure was fairly high, and quiet, settled conditions prevailed with exceptionally low rainfall amounts, an absolute drought being experienced in several districts in South and East England between 6th and 26th. On the 24th, however, the country came under the influence of a deepening low pressure system on the Atlantic, and a general fall in pressure commenced. Conditions were then rather unsettled, particularly in the West and troughs of low pressure moved eastwards over the British Isles. Some heavy falls of rain were then recorded, notably 31mm at Valentia on the 25th and a similar amount at Pembroke on the 26th.

On the 24th and 26th gales were experienced at exposed coastal places in West Ireland and Northwest Scotland.

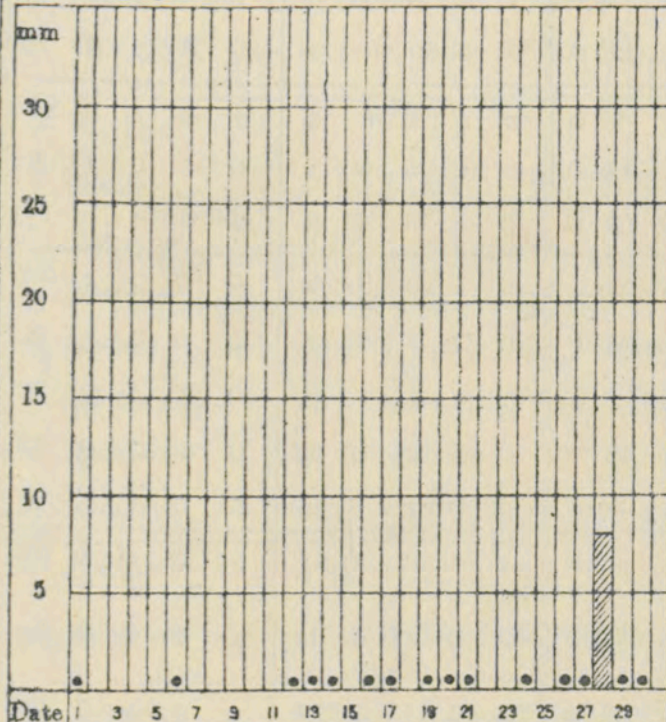
Day temperatures in the main were above average with rather warm conditions locally from the 2nd to the 4th, and on the latter date a max. of 81°F was recorded at Mildenhall. On the 14th there was a temporary onset of colder air which caused local ground frosts in inland districts on the mornings of 15th, 16th and 17th.

Thunderstorms were infrequent, being reported on only four widely separated occasions, but there was local lightning and thunder in several districts during the first and last weeks and also in mid-month.

Sunshine totals were everywhere below average except in Southwest Ireland. At Cronwell a new low record was created, with only 77 hours of sun compared with the previous lowest of 87 hours in 1931.

New low records were also established for rainfall amounts. Lymington and Shoeburyness each had only 5mm compared with their previous low record of 8mm in 1928. Sealark had 9mm, the previous record being 12mm in 1933, and Lynnmouth 18mm compared with 22mm in 1921. At Aberdeen the lowest recorded amount in September was 14mm in 1894 and this was equalled this year.

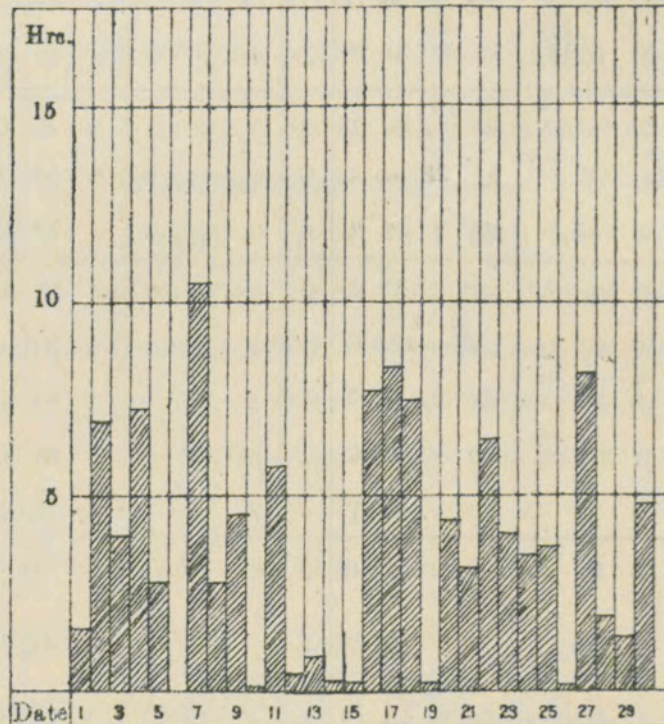
Daily Rainfall at KEW Observatory.



• = Less than 0.5 mm.

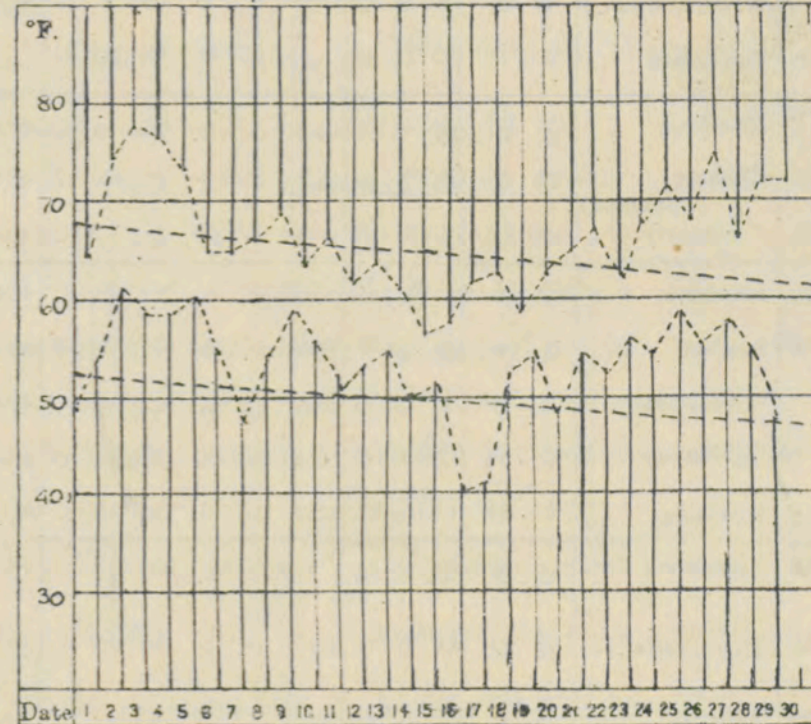
RAINFALL Total for Month. 8.4 mm.

Daily Sunshine at KEW Observatory



SUNSHINE Total for Month. 114.4 hrs.

Daily Range of Temperature at KEW Observatory.



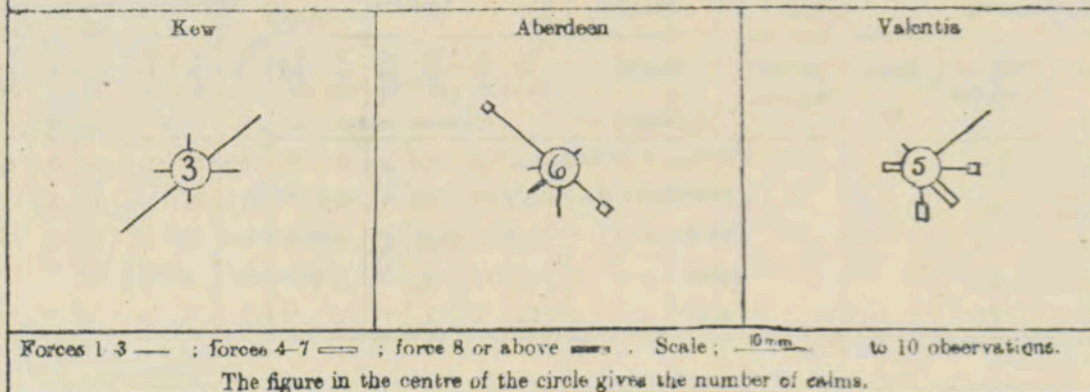
TEMPERATURE. The peaked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.\*

STATIONS.	PRESSURE		TEMPERATURE	
	Mean	Difference from average	Mean	Difference from average
Kew	mb. 1023.7	mb. +6.3	°F. 59.8°	+1.3°
Aberdeen	1022.2	+7.7	55.5°	+2.3°
Valentia	1022.5	+6.0	59.5°	+2.9°

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

WIND FREQUENCIES AT 7 hr.



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

	miles.
Kew	3,718
Aberdeen	3,644
Lerwick	11,454
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.					

## UPPER AIR TEMPERATURE.

## UPPER WINDS.

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

Pressure.	Normal Height.	MILDENHALL.			ALDERGROVE.			STATION		LYMPNE.						PLYMOUTH (Mt. Batten).						HOLYHEAD.						RENFREW.						STATION.	
		Normal Temp.	Mean.	No. of Reports.	Mean.	No. of Reports.	Mean.	No. of Reports.	Height.	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Height.	
																																			°F.
mb.	Feet.	°F.	°F.		°F.																														
950	1860	54.4	54.3	60	54.7	59		500 above ground.	126	66	55	3	0	0		55	33	21	0	0	0	14	8	6	0	0	0	71	28	38	4	0	0	500 above ground.	
880	4870	45.3	43.2	60	47.7	58		1000 above M.S.L.	100	55	37	3	0	0		37	16	21	0	0	0	11	8	3	0	0	0	46	21	21	4	0	0	1000 above M.S.L.	
750	8210	37.3	43.4	60	43.1	59		2000 " "	59	31	25	2	0	0		22	10	11	0	0	0	4	2	2	0	0	0	9	5	4	0	0	0	2000 " "	
660	11960	26.3	33.3	60	33.2	58		3000 " "	33	17	12	3	0	0		16	9	5	2	0	0	1	1	0	0	0	0	4	0	2	1	1	0	3000 " "	
550	16200	12.5	18.9	60	20.0	58		4000 " "	16	8	7	1	0	0		9	2	6	1	0	0	1	1	0	0	0	0	2	0	1	0	1	0	4000 " "	

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

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

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



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

Page 3.

DISTRICT.	STATIONS.	SUNSHINE.												RAINFALL.												Days with Thunder.	Days with Snow or Sleet.									
		Number of Days with Duration.					Maximum Duration.		Total for past 12 months.	Difference from average.	Total for Month.	Difference from average.	Highest and Lowest Totals on record for Month.			† Number of days with amount.	Maximum fall in 24 hrs.	Total for past 12 months.	Difference from Average.	Total for Month. ‡	Difference from Average.	Highest and Lowest Totals on record for Month.														
		Nil.	0.1—3h.	3.1—6h.	6.1—9h.	Above 9h.	Hours.	Date.					First year of record.	Highest. Year.	Lowest. Year.							First year of record.	Highest. Year.	Lowest. Year.												
																									Hours.			Hours.	Hours.	Hours.	Hrs.	Hrs.	mm.	Date.	mm.	mm.
1	London ... (Kew Obsy). Croydon ... Thorney Island Lympne ...	1	12	9	7	1	10.5	7	1370	-30	113	-33	1880	224	1911	90	1936	28	1	0	1	0	0	9	28	856	+250	9	-39	1856	145	1918	4	1929	0	0
		2	8	13	4	3	10.1	17	1460	-65	131	-20	1922	205	1928	89	1936	28	1	0	1	0	0	14	28	834	+155	14	-36	1921	134	1927	4	1929	0	0
		Not recorded.											1881	253	1928	111	1920	22	4	2	0	0	0	3	28		7	-48	1871	216	1890	2	1910	0	0	
		3	9	5	7	6	10.6	4	1659	-106	152	-16	1921	244	1928	106	1936	26	2	2	0	0	0	2	14	831	+107	5	-53	1920	122	1933	8	1928	0	0
2	Shoeburyness ... Gorleston ... Oranwell ...	4	11	5	10	0	8.8	27	1507	-209	108	-55	1919	237	1928	108	1936	26	2	2	0	0	0	2	28	587	+84	5	-37	1920	93	1920	8	1928	0	0
													1908	222	1928	109	1932	23	5	2	0	0	0	3	26	659	+37	9	-41	1871	163	1930	4	1898	0	0
		4	17	6	1	2	11.0	3	1357	-181	77	+66	1921	186	1933	87	1931	23	4	2	1	0	0	11	28	782	+192	13	-30	1917	126	1935	12	1928	0	0
3	Birmingham ... (Edgbaston)	8	11	8	2	1	10.2	4	1157	-147	82	-42	1887	216	1895	67	1909	23	3	3	1	0	0	5	5	951	+277	17	-29	1893	165	1918	12	1895	0	0
4	Ross-on-Wye ...	3	10	9	7	1	10.6	15	1346	-139	108	-28	1915	205	1929	91	1936	25	1	0	4	0	0	12	1	844	+127	31	-18	1859	174	1876	2	1865	3	0
5	Falmouth ... (Observatory)	4	9	5	8	4	11.3	12	1668	-42	137	-21	1881	235	1906	99	1932	26	1	1	2	0	0	11	27	1245	+138	23	-51	1871	206	1918	9	1895	0	0
7	Holyhead ...												1914	203	1933	107	1916	22	3	4	1	0	0	9	27	804	+83	31	-37	1871	188	1918	7	1894	0	0
8	Chester ... (Sealand)	5	13	7	2	3	10.7	3	1326	-50	91	-39	1928	174	1933	80	1936	24	3	3	0	0	0	4	28	693	+55	9	-40	1922	118	1935	12	1933	0	0
10	Tynemouth ...								*	*	*	*	1935	*	*	*	*	25	2	2	1	0	0	9	28	736	+115	18	-28	1915	115	1918	22	1921	0	0
11	Leuchars ...	9	7	8	4	2	11.1	3	1139	-331	95	-44	1922	161	1928	82	1936	21	7	0	2	0	0	11	26	730	+77	24	-25	1922	126	1927	13	1929	0	0
12	Renfrew ... Eskdalemuir ...	8	11	9	2	0	8.9	3	1046	-147	75	-43	1921	152	1928	73	1936	22	3	1	4	0	0	7	26	956	+17	38	-28	1921	157	1935	16	1933	1	0
		8	10	9	2	1	10.7	5	1078	-123	84	-27	1910	153	1933	75	1931	20	4	1	4	1	0	19	25	1365	-64	67	-27	1910	242	1918	25	1910	0	0
13B	Stornoway	7	12	3	8	0	7.9	19	1189	-26	89	-21	1881	175	1903	73	1887	16	4	7	3	0	0	9	28	946	+320	43	-57	1870	201	1900	12	1894	0	0
15	Aberdeen ...	5	14	8	3	0	8.5	3	1130	-199	75	-51	1881	199	1906	57	1881	20	7	2	1	0	0	5	28	865	+117	14	-42	1871	162	1927	14	1894	0	0
18	Aldergrove ...	3	15	7	3	2	11.5	3	1117	*	98	*	1927	175	1933	96	1931	20	5	4	0	1	0	16	27	875	+37	35	-28	1926	143	1934	13	1933	0	0
19	Birr Castle ...	2	10	12	6	0	8.6	28	1139	-167	106	-13	1881	182	1898	80	1908	21	5	2	2	0	0	7	26	841	+17	25	-33	1862	172	1924	8	1894	0	0
20	Valentia ... (Cahiriveen)	4	9	4	6	7	11.0	12	1464	+36	151	+24	1880	205	1933	78	1922	16	7	3	3	0	1	31	25	1475	+61	69	-36	1866	253	1875	24	1909	0	0

MINIMUM SURFACE HUMIDITY.											STATE OF GROUND AT 18 h.														
No. of Days (MDT. TO MDT.) WITH MINIMA BETWEEN FIXED LIMITS.											No. of Days EACH TYPE WAS RECORDED.														
STATIONS.	95 to 100 %	90 to 94 %	80 to 84 %	70 to 74 %	60 to 64 %	50 to 54 %	40 to 44 %	30 to 34 %	20 to 24 %	0 to 19 %	STATIONS.	0	1	2	3	4	5	6	7	8	9	CODE for State of Ground.			
London (Kew)	0	0	1	8	12	8	1	0	0	0	London (Kew)	17	13	0	0	0	0	0	0	0	0	0	0	0	Dry.
Ross-on-Wye ...	0	0	3	13	8	6	0	0	0	0	Ross-on-Wye	17	13	0	0	0	0	0	0	0	0	0	0	0	1 Wet.
Falmouth (Obsy.)	4	4	13	5	3	1	0	0	0	0	Renfrew ...	21	8	0	0	0	0	0	0	0	0	0	0	0	2 Flooded.
Renfrew ...	0	0	4	7	13	6	0	0	0	0	Eskdalemuir	17	13	0	0	0	0	0	0	0	0	0	0	0	3 Frozen hard and dry.
Eskdalemuir ...	0	1	3	5	13	8	0	0	0	0	Aberdeen ...	19	11	0	0	0	0	0	0	0	0	0	0	0	4 Partly covered with snow or hail.
Aberdeen ...	0	2	6	8	7	7	0	0	0	0	Valentia ...														5 Covered with ice or glazed frost.
Valentia ...																									6 Covered with thawing snow.
																									7 Covered with snow, less than 6 ins., but ground not frozen.
																									8 Covered with snow, less than 6 ins., and ground frozen.
																									9 Covered with snow, greater than 6 ins. deep.

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

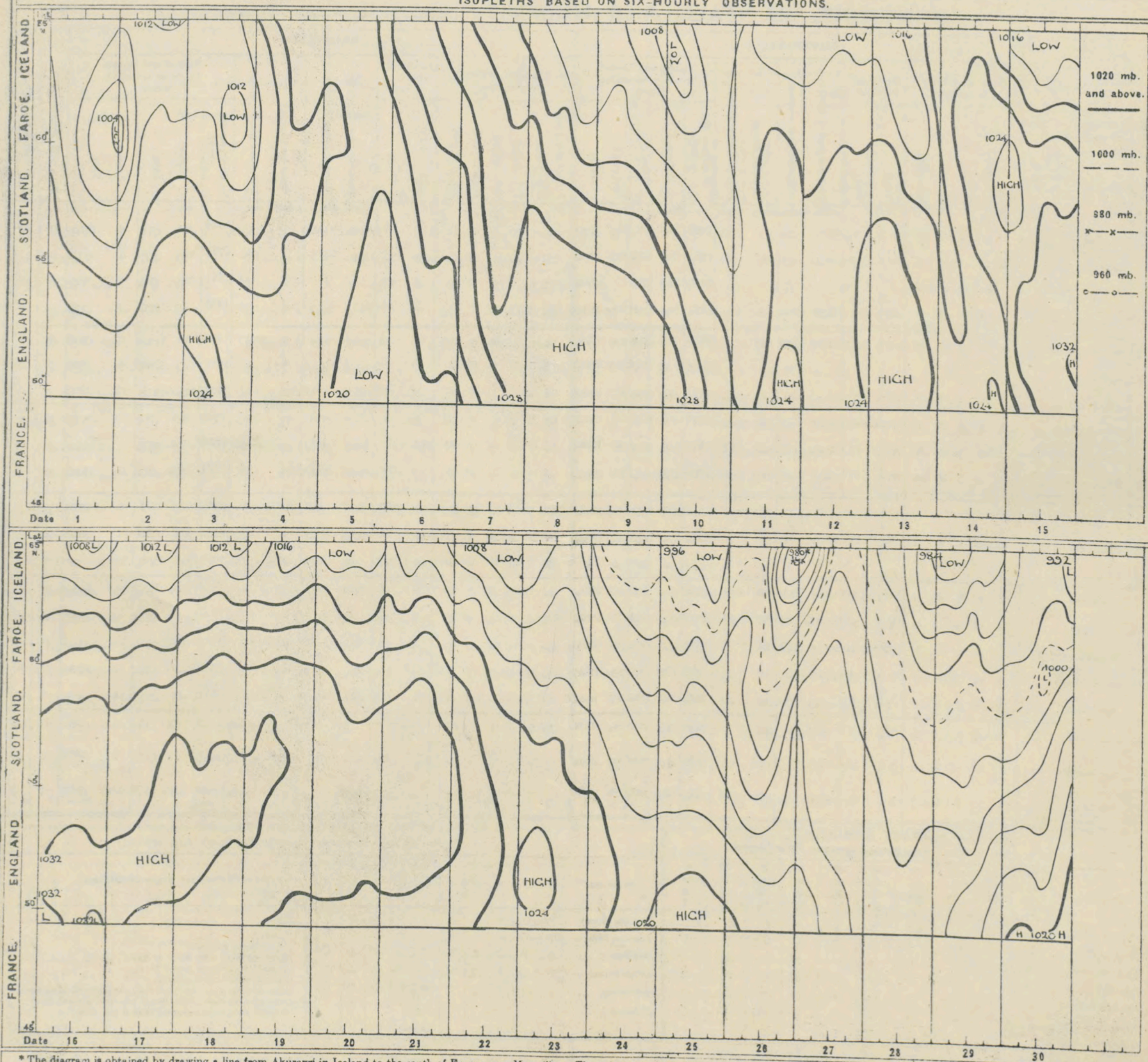


## PRESSURE: ICELAND TO GULF OF LIONS

September

1941

ISOPLETHS BASED ON SIX-HOURLY OBSERVATIONS.



\* The diagram is obtained by drawing a line from Akureyri in Iceland to the south of France near Marseille. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at the 7h., 13h., and 19h. are plotted consecutively and joined to show the variation of pressure from day to day at any point in the line. The line terminates at Lat. 66° N., Long. 18° W., in the north; at Lat. 44° N., Long. 4° E., in the south.



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Monday 1st September 1941  
No. 29138

[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 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 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.

- 6 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 19, 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:      Altopumulus, -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 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.



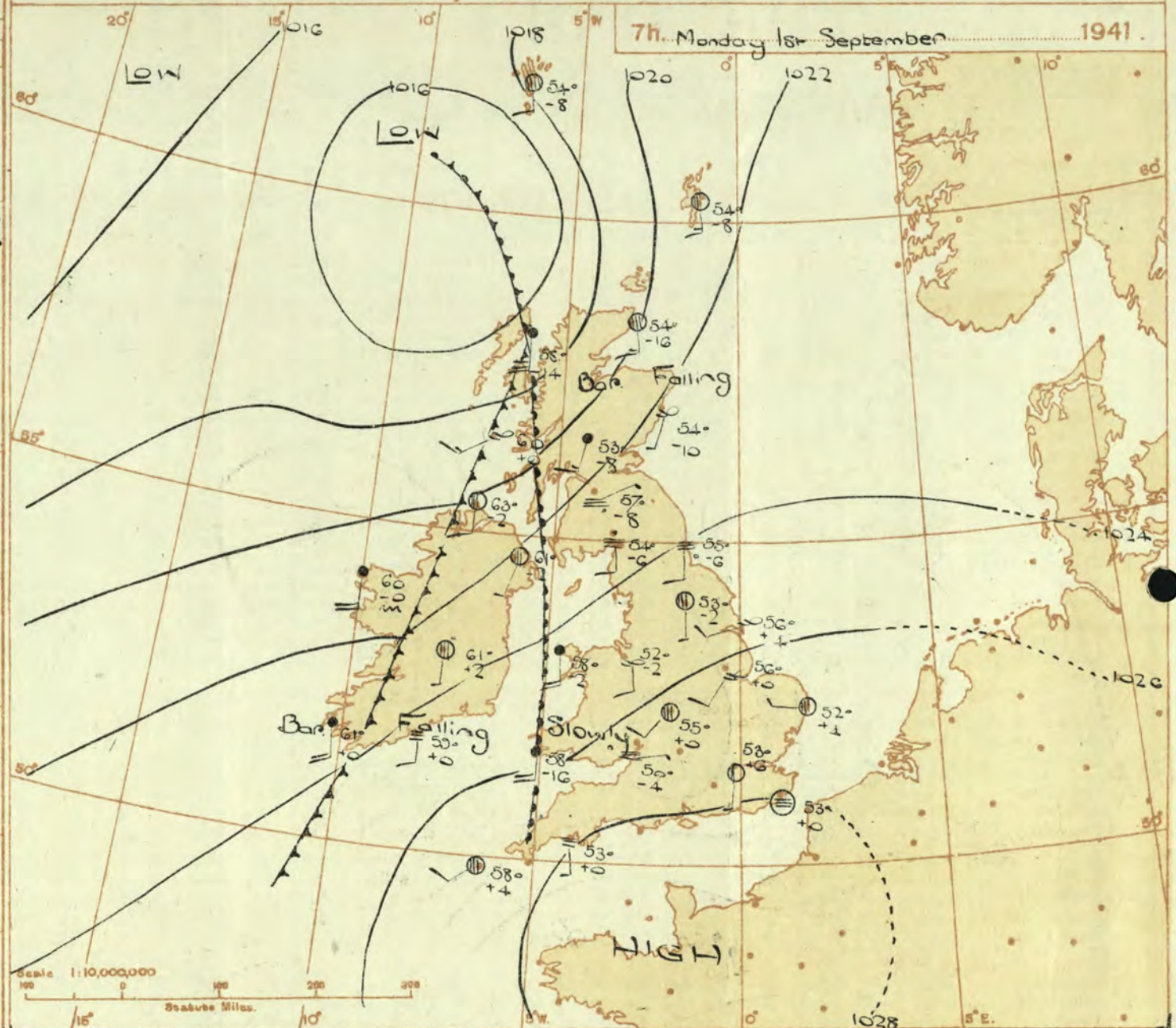
Abridged observations of additional stations in the

# AVIATION WEATHER CODE

13h. G.M.T. 1st August					15h. G.M.T.					01h. G.M.T. 1st September					07h. G.M.T.				
III	C <sub>u</sub>	ww	Vh	DDFWN	C <sub>u</sub>	ww	Vh	DDFWN	C <sub>u</sub>	ww	Vh	DDFWN	C <sub>u</sub>	ww	Vh	DDFWN			
109	7-	02355	25425	50	01952	30223	5-	02854	12124	57	62753	14468							
115	52	02944	22227	54	02944	22225	54	02844	12127	52	62748	16288							
203	8-	02848	06228	8-	02947	04227	5-	02948	12328										
206	73	01963	08224	73	01962	08214	53	02964	00025	02	52638	00068							
210	5-	01964	32324	03	01960	06314	03	01890	12214	02	58658	14168							
220	13	01954	19305	52	02845	15318				5-	63728	22568							
230	13	01951	22218	17	02961	00027	57	02855	00028	5-	52648	00058							
245	70	01963	12418	54	01861	14215	03	05690	04211	02	62658	23158							
260	13	00862	00018	47	02861	22216	57	05663	00015	5-	02778	00018							
278	14	00851	10311	07	02890	12327	5-	02748	12368										
279	10	01963	21814	43	02861	20215	57	22744	10166	57	02857	00028							
285										53	02744	32327							
288	20	01754	00014	10	05664	05214	04	08420	00043	53	02885	20127							
375	73	01864	10225	57	25845	00088	5-	02858	16188	5-	02838	20128							
301	10	00952	26202	45	01961	29204	07	05690	10126	07	05590	22227							
321	10	05662	27312	04	05690	28201	07	08420	24214	05	08420	16148							
299	50	05653	08203																
292	10	01963	00013	54	00861	22111	57	02666	00017	07	05690	15127							
310										--	01656	26316							
314	10	01764	26214	00	00790	24110	07	41420	00045	07	05590	32127							
333	24	00951	18301	04	01990	20302	52	02974	00017	52	51744	16268							
334										--	63546	24287							
340	10	01964	22214	10	00962	22202	04	04690	00011	03	05690	14225							
136	7-	02707	24217	20	05663	24113													
336										51	22752	24368							
350				00	00890	24210	07	05590	18211	04	05690	18318							
368	10	00862	20202	00	00890	22301													
379	10	01764	22214	10	00851	28211	00	01790	22223	03	05690	22217							
390	20	01764	22214	10	00861	25311	00	05690	24100	03	47320	00015							
382	10	10864	00014	00	00890	00000	00	04690	00013	03	41620	*							
438	53	01753	20313							57	01744	24615							
430	20	00762	12212	00	00790	20200	00	05690	30100										
409	10	00862	28202	54	00951	26102	03	01790	00015	57	05616	15357							

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, Nh = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C<sub>u</sub>, C<sub>m</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility. F = Force of wind—See page 4.  
 DD = Direction of wind (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 September 1941
1 S.E. England	Light S.W. wind; mainly fair but cloudy periods and scattered showers; rather warm.
2 E. England ...	Light S.W. wind; cloudy periods; local rain; rather warm.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light S.W. wind; mainly fair; local coast fog; rather warm.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	Light or moderate S.W. wind; mainly cloudy; occasional rain; local coast fog near west coast; rather warm.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13 A. W. Scotland	
13 B. N.W. Scotland	Light or moderate S.W. wind veering west; mainly cloudy; occasional rain; average temperature.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	Light or moderate S.W. wind; cloudy; occasional rain; local coast fog; rather warm.
19 S. E. Ireland	
20 S. W. Ireland	

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

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

### GENERAL INFERENCE.

A depression off N.W. Scotland will probably move east. There will be occasional rain in the North and Midlands. Weather will be mainly fair in the South with scattered showers.

### FURTHER OUTLOOK.

Mainly fair in the South; unsettled in the North.

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.

6269/410. No. 8/76. D. 6034. Sp. 346. 3300. 3/41



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

## Explanation of Frontal Lines shown on Charts

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

Morning of  
Monday 1st September,  
1941.

Clark's Projection Scale 1: 4 x 10<sup>7</sup> 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. Δ Hail.

Fog. ≡ Mist. ≡ Thunder. (T) Thunderstorm. \* Slight haze. b

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

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



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Monday 1st September 1941  
No. 23,138

OBSERVATIONS at 1 hr. G.M.T. 1st September															OBSERVATIONS at 7 hr. G.M.T. 1st September															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.			Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.			State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		Sun-shine (38) Hrs.							
					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 13h-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	1027.4	+2	SSW	2	b	52	97	6	-	-	-	1027.3	+6	SSW	1	c	53	97	6	-	-	-	1	*	63	43	35	-	-	-	11.8							
	Croydon ... 217	1027.4	+2	SSW	2	b	52	97	6	-	-	-	1027.7	+6	SSW	1	c	53	97	6	-	-	-	1	*	73	48	47	-	-	-	12.1							
	S. Farnborough ... 226	1027.7	+2	-	0	b	50	92	6	-	-	-	1028.0	+2	S	0	c	40	97	6	-	-	-	1	*	72	44	40	-	-	-	12.1							
	Boscombe Down ... 417	1028.1	+2	-	0	b	53	97	6	-	-	-	1028.2	+2	S	0	c	51	97	6	-	-	-	1	*	70	46	42	-	-	-	12.3							
	Thorney Island ... 10	1027.8	+2	-	0	b	50	97	4	-	-	-	1028.0	+4	-	0	c	54	97	6	-	-	-	0	*	63	45	43	-	-	-	*							
	Lympe ... 346	1027.9	+2	-	0	b	50	97	1	-	-	-	1028.0	0	-	0	c	53	97	3	-	-	-	1	*	67	46	41	-	-	-	7.7							
	Manston ... 154	1027.5	+2	-	0	b	53	97	6	-	-	-	1027.7	+2	-	0	c	56	97	5	-	-	-	1	*	69	50	41	-	-	-	10.5							
2	Shoeburyness ... 11	*	*	*	*	*	*	*	*	*	*	*	1027.5	+6	WS	1	c	57	92	5	-	-	-	1	*	69	53	43	-	-	-	8.3							
	Felixstowe ... 15	1026.4	+4	-	0	b	55	97	5	-	-	-	1027.1	+6	-	0	c	55	92	5	-	-	-	0	*	68	51	46	-	-	-	8.2							
	Gorleston ... 5	1026.7	0	S	1	b	62	75	6	-	-	-	1027.0	+6	WNW	1	c	52	92	5	-	-	-	1	*	64	52	43	-	-	-	*							
	Mildenhall ... 19	1027.1	+4	SW	2	b	53	97	6	-	-	-	1027.0	+2	WSW	2	c	54	92	6	-	-	-	0	*	71	50	41	-	-	-	9.0							
	Cranwell ... 240	1026.8	-4	WNW	2	b	54	85	5	-	-	-	1026.5	0	SW	2	c	56	85	6	-	-	-	0	*	69	49	44	-	-	-	7.1							
3	Birmingham ... 535	*	*	*	*	*	*	*	*	*	*	*	1026.6	0	SW	2	c	55	92	7	-	-	-	1	*	70	52	37	-	-	-	11.8							
	Upper Heyford ... 408	1027.1	+2	-	0	b	55	85	6	-	-	-	1027.5	+4	S	2	c	4																					
4	Ross-on-Wye ... 223	*	*	*	*	*	*	*	*	*	*	*	1026.7	-4	E/N	1	c	50	97	6	-	-	-	0	*	71	47	45	-	-	-	12.1							
5	Hartland Point ... 299	1027.3	+2	S	2	b	55	92	8	5	+	-	2.3	4.6	25.0	1026.5	-4	S	3	c/p	56	85	8	3	-	-	3.0	3.0	20.0	1	2	64	55	52	-	0.1	11.7		
	Bristol ... 209	1027.4	+2	-	0	b	51	92	7	-	-	-	1027.6	-2	S	1	c	53	97	7	-	-	-	1	*	70	48	42	-	-	-	11.9							
	Portland Bill ... 32	1027.5	+2	WSW	1	b	50	92	8	-	-	-	1027.4	-4	c	0	c	58	97	8	5	-	-	-	0	3.0	10.0	25.0	1	2	64	56	*	-	-	*			
	Plymouth ... 82	1028.5	-2	SE	1	b	51	97	6	-	-	-	1028.2	0	SE	1	c	53	97	3	5	3	-	-	7.8	3.0	15.0	0	1	64	50	48	-	-	11.5				
	The Lizard ... 240	1027.6	0	SW	2	b	57	97	8	8	-	-	4.6	4.6	25.0	1027.5	+4	SSW	2	c	57	92	8	6	-	-	7.8	7.8	17.0	0	2	64	56	*	-	-	12.4		
	Scilly (St. Mary's) ... 163	1027.0	-4	SW	2	b	58	97	7	8	-	-	1.0	1.0	15.0	1026.9	+4	SW	2	c	58	97	8	5	-	-	3.0	7.8	15.0	0	2	65	56	*	-	-	8.4		
	Guernsey ... 175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
6	Pembroke ... 142	1026.0	0	SW	3	b	58	97	8	4	3	-	7.8	8.0	25.0	1026.3	-6	S	4	c	58	97	7	8	3	-	-	7.8	3.0	15.0	1	3	63	57	*	-	0.3	10.9	
7	Holyhead (Valley) ... 26	1025.5	-4	SE	5	b	59	85	7	5	-	-	1.0	1.0	20.0	1024.7	-2	SE	4	c	58	97	6	5	-	-	1.0	1.0	8.0	1	3	64	57	54	-	-	0.6	*	
	Chester (Sealand) ... 16	1026.6	+2	SE	2	b	51	92	5	-	-	-	0	2.3	-	1025.6	-2	SE	2	c	52	92	5	5	3	2	1	3	45.0	0	*	70	40	43	-	-	11.8		
8	Manchester ... 70	1026.8	-2	SE	1	b	52	92	5	-	-	-	0	0	-	1026.3	-2	SE	1	c	55	85	5	-	3	3	0	0	-	1	*	69	48	43	-	-	9.5		
10	Spurn Head ... 29	1026.6	+4	NW	1	b	56	92	7	-	-	-	0	0	-	1025.3	+4	WSW	2	c	56	85	5	5	6	-	-	4.6	0	25.0	0	2	65	53	*	-	-	7.4	
	Catterick ... 175	1026.4	-2	-	0	b	53	92	6	-	-	-	0	3	-	1025.7	-2	S	1	c	53	92	8	-	3	5	0	0	-	0	*	72	50	44	-	-	9.8		
	Tynemouth ... 108	1026.1	-4	SW	2	b	54	85	4	0	-	-	4.6	4.6	25.0	1025.3	-6	S	2	c	55	85	4	5	-	-	3.0	3.0	26.0	0	3	62	53	40	-	-	*		
11	St. Abbs Head ... 280	1024.6	0	W	3	b	55	92	7	4	4	-	2.3	2.3	25.0	1022.8	-10	SW	4	c	56	92	8	5	7	-	-	7.8	0	25.0	1	2	60	52	*	-	-	8.2	
	Leuchars ... 36	1024.7	-2	NW	2	b	49	97	6	5	-	-	1	1	35.0	1022.9	-10	-	0	53	97	6	5	-	-	1.0	1.0	27.0	1	*	65	48	43	-	-	0.2	8.2		
12	Renfrew (Abbots I.) ... 19	1024.4	-2	-	0	b	56	92	4	5	-	-	1.0	1.0	26.0	1022.4	-8	NE/E	1	c	57	92	4	5	-	-	1.0	1.0	18.0	1	*	67	55	46	-	-	0.1	3.0	
	Eskdalemuir ... 794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
	Point of Ayre ... 30	1025.0	0	SE/S	1	c	58	97	8	-	-	-	0	7.8	-	1023.8	-2	S	1	c/p	59	97	7	6	7	-	-	4.6	1.0	50.0	0	1	65	57	*	-	-	3.0	
13A	Tiree ... 22	1021.2	-10	SE	4	b	58	97	6	2	-	-	7.0	7.0	12.0	1019.4	0	SW/S	3	c	60	97	6	5	-	-	1.0	1.0	50.0	1	4	61	57	*	-	-	5.0		
13B	Stornoway ... 80	1021.0	-12	SE	3	b	57	85	7	5	7	-	7.8	7.8	20.0	1016.0	-14	S	3	c	58	97	6	8	7	-	-	7.8	1.0	100.0	1	4	60	55	*	-	-	1.4	
15	Dalwhinnie ... 1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
	Aberdeen ... 79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
	Wick ... 119	1023.0	-14	SE/E	3	b	54	92	8	5	-	-	3	3	40.0	1022.5	-10	SSW	3	c	54	97	6	5	7	-	-	2.3	1.0	30.0	1	1	64	52	45	-	-	0.6	8.3
16	Sumburgh ... 30	1024.1	-2	-	0	b	50	97	8	-	3	1	0	1	-	1020.4	-8	SE	3	c	54	92	3	5	7	-	-	1	3	15.0	*	*	58	47	*	-	-	7.1	7.1
17	Blackod Point ... 18	1021.2	0	SW	5	b	58	97	6	6	-	-	1.0	1.0	80.0	1020.4	0	S	4	c	60	97	6	6	-	-	1.0	1.0	80.0	1	5	62	57	*	-	-	0.2	*	
18	Malin Head ... 84	1020.4	-14	SE	3	b	62	85	7	8	-	-	0	0	15.0	1019.7	-2	S	2	c	63	92	8	3	-	-	7.8	7.8	15.0	0	3	64	59	*	-	-	5.9		
	Aldergrove ... 268	1028.5	-2	S	2	b	62	92	7	5	-	-	1.0	1.0	23.0	1022.6	-2	SW	1	c	61	97	7	5	-	-	1.0	1.0	30.0	1	*	71	60	59	-	-	6	8.5	
19	Birr Castle ... 173	1024.1	-0	SE	3	b	62	92	8	5	-	-	1.0	1.0	25.0	1022.7	+2	S	1	c	61	97	8	5	7	-	-	7.8	3	25.0	0	*	70	61	60	-	-	0.2	0.2
20	Valentia Obey. ... 30	1024.3	-0	SE	3	b	58	97	3	5	-	-	1.0	1.0	22.0	1023.1	0	S	2	c	61	97	3	5	-	-	1.0	1.0	80.0	1	3	63	61	59	-	-	0.2	0.2	
	Roches Point ... 22	1024.3	-0	SE	3	b	58	97	3	5	-	-	1.0	1.0	22.0	1024.1	0	S	2	c	59	97	3	5	-	-	1.0	1.0	15.0	1	3	63	57	-	-	-	0.3	2	0.0

LONDON OBSERVATIONS.													EXPLANATION OF FIGURES, LETTERS, etc.																
Height above Sea Level in feet.	Weather			Temperature.			Rainfall.		Humidity.		Atmospheric Pollution.		COLUMNS 2, 16. The barometric tendency is expressed in tenths of a millibar.						COLUMNS 8, 22 —Code for surface visibility. Objects not visible at										
	Morning.	Afternoon.	Night.	Day Max.	Night Min.	Min. on Grass °F.	Day. mm.	Night. mm.	Sun- shine to Sunset. hrs.	15h. G.M.T. %	9h. G.M.T. %	Visibility mi.													Milligrams of Solid Impurity per cubic metre.				
																										24 hrs. ended 9h.		°F.	°F.
Kew ... ..	18	bcm	bey	bym	63	48	39	-	7	11.0	.	.	6	SOUTH KENSINGTON.															
CROYDON ... ..	217	bc	bey	bym	73	48	47	-	7	12.1	.	.	6							Max.		Time.		Min.		Time.			
GREENWICH (Royal Observatory)...	149	bzy	bacby	bwm	73	48	38	-	7	11.7	50	75	6	KEW OBSERVATORY.															
CITY (Bunhill Row) ... ..	—	.	.	.	.	.	.	.	.	.	.	.	.							Max.		Time.		Min.		Time.			
WESTMINSTER (St. James' Park) ...	27	.	.	.	71	52	49	-	7	62	85	.	.	0.2		4-7h		6-11		14-19h									
REGENTS PK. (Botanic Gardens)...	168	.	.	.	72	52	41	-	7	67	72	.	.	1sr		31sr		Beau- fort No.		Statute m/h.		Beau- fort No.		Statute m/h.		Beau- fort No.		Statute m/h.	
CAMDEN SQUARE ... ..	110	o	bc	.	74	51	47	-	7	.	82	.	.	0		1		4		13-18		9		47-54					
KENSINGTON ... ..	80	bbe	bc	.	73	50	41	-	7	61	83	.	.	2		1-3		5		19-24		10		55-63					
HAMPSTEAD OBSERVATORY ... ..	450	b	b	bcm	70	57	46	-	7	.	81	.	.	3		4-7		6		25-31		11		64-75					
FOREIGN OBSERVATIONS.													Past 24 Hours.																
STATIONS.													Evening of 31st August		Morning of 1st September				Rainfall.										
													Barom. mb.	Wind. Direc. Force.		Weather.	Temp. °F.	Barom. mb.	Wind. Direc. Force.		Weather.	Temp. °F.	Max. Day °F.	Min. Night °F.	Day mm.	Night mm.			
Reykjavik (18h and 07h) ... ..													1014.2	SSW	3	c	59	1014.4	SSE	2	c	50	*	50	-	2			
Lisbon (18h and 07h) ... ..													1016.3	*	*	df	82	1018.4	NE	3	b	66	63	63	-	-			
Madrid (18h and 07h) ... ..													1012.4	NE	3	b	86	1012.1	WN	1	m	77	74	70	-	-			
Cairo (Heliopolis) (18h and 06h) ...																													
Toronto (13h and 01h) ... ..																													
Washington (13h and 01h) ... ..																													
COLUMNS 34, 35. Tr. = rain has fallen, but amount less than 0.1 mm.													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.																

‡Pressure at 1,000 dynamic metres level.

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

† Sea disturbances reported from Dungeness.

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

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



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTIONTuesday 2nd September 1941.  
No. 29,139

OBSERVATIONS at 13h. G.M.T. 1st September														OBSERVATIONS at 18h. G.M.T. 1st September														PAST 24 HOURS.							
Dissect.	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. m. (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. m. (22)	Cloud.				State of Ground. 0-6 (29)	Sea. 0-9 (30)	WEATHER.							
				Direc. (3)	Force. 0-12 (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (14)	Form. (23)			Amount. (24)	Height of Base (feet) (28)					7h.—18h. 1st (37)	13h.—18h. 1st (38)	18h.—1st. 2nd (39)	1h.—7h. 2nd (40)										
1	London (Kew)...	1027.6	-2	SW	2	C	63	75	8	5	7	-	2-3	9+	4000	1027.1	-2	SW	2	C	62	85	7	5	2	-	4-6	9+	4000	1	*	bcwmo	ccif	bcwmo	cmw
	Croydon ...	1027.4	-2	SW	2	C	65	75	8	1	3	-	7	9+	3500	1026.9	0	WN	2	C	62	85	7	5	7	-	4-6	9+	3500	0	*	cmoc	cid	cmw	bec
	S. Farnborough	1027.4	+2	SW	2	C	65	75	8	7	7	-	2-3	9+	3500	1026.9	-2	SW	1	C	62	85	7	5	7	-	4-6	10	5700	1	*	bcwmo	ccif	bcwmo	cmw
	Boscombe Down	1027.5	-6	SW	1	C	63	75	7	5	7	-	2-3	10	6000	1027.3	0	SW	3	C	58	85	8	5	-	8	-	-	5700	0	*	cmoc	cid	bcwmo	cmw
	Thorney Island	1028.2	+1	SW	2	C	64	85	8	1	7	-	2-3	10	2500	1027.6	-2	SW	2	C	60	85	7	5	7	-	2-3	9+	7200	0	*	bcwmo	ccif	bcwmo	cmw
	Lympne	1027.4	-2	S	2	C	68	65	8	1	3	5	4-6	4-6	2500	1027.0	-6	-	0	C	60	85	8	5	7	-	4-6	9+	4500	1	*	bcwmo	ccif	bcwmo	cmw
	Manston	1027.2	-6	-	0	C	70	65	7	2	7	-	7-8	7-8	3000	1026.7	-4	SW	1	C	63	85	7	5	7	-	7	9+	3500	0	*	bcwmo	ccif	bcwmo	cmw
2	Shoeburyness ...	1027.2	-10	SW	2	C	73	65	6	1	3	1	2-3	2-3	4000	1026.7	-2	SW	1	C	64	75	7	5	7	-	2-3	10	2500	1	*	cmoc	cid	bcwmo	cmw
	Felixstowe ...	1026.6	-2	SE	3	Z	68	75	6	1	-	2	2-3	4-6	4000	1025.7	-2	SW	2	C	65	85	6	-	7	-	0	10	-	1	*	cmoc	cid	bcwmo	cmw
	Gorleston ...	1026.8	-4	SE	2	C	64	85	6	5	3	-	4-6	7-8	3000	1025.8	0	SW	2	C	67	65	6	5	-	-	0	9+	2300	0	2	bcwmo	ccif	bcwmo	cmw
	Mildenhall ...	1026.3	-6	SW	3	C	71	65	7	1	7	-	4-6	7-8	4000	1026.3	+2	W	2	C	64	85	8	5	7	-	4-6	9+	5700	0	*	bcwmo	ccif	bcwmo	cmw
	Cranwell ...	1025.6	-6	SW	3	Z	66	75	6	-	7	-	0	10	-	1025.7	+2	SW	3	Z	62	75	6	-	7	6	0	9+	-	0	*	bcwmo	ccif	bcwmo	cmw
3	Birmingham	1026.5	0	SW	1	rr	59	85	6	6	2	-	9	10	800	1025.8	-2	SW	2	C	61	92	6	8	7	-	7-8	9	1500	1	*	cmoc	cid	bcwmo	cmw
	Upper Heyford	1026.5	-2	SW	2	Z	65	75	6	1	7	-	7	9+	2500	1026.2	+2	SW	2	Z	60	85	6	-	7	-	0	10	-	1	*	cmoc	cid	bcwmo	cmw
4	Ross-on-Wye ...	1026.3	-4	SW	2	pr	63	75	6	1	2	-	0	10	-	1025.6	-4	SW	2	C	60	85	7	5	7	3	1	7-8	2500	1	*	cmoc	cid	bcwmo	cmw
5	Hartland Point	1026.6	-4	WN	3	C	60	85	7	8	7	-	4-6	9+	1200	1026.7	0	W	2	C	59	97	7	9	2	-	7-8	10	1000	1	2	bcwmo	ccif	bcwmo	cmw
	Bristol ...	1027.5	0	SW	1	C	64	75	8	5	7	-	2-3	10	4500	1026.6	-4	SW	2	C	60	75	8	5	8	8	4-6	9+	4000	0	*	cmoc	cid	bcwmo	cmw
	Portland Bill ...	1028.2	+4	SW	2	C	57	92	8	5	7	-	7-8	10	2500	1027.8	-4	S	2	C	58	92	8	5	8	-	4-6	10	2500	1	2	bcwmo	ccif	bcwmo	cmw
	Plymouth	1028.4	+2	S	1	pr	59	85	6	9	7	-	7	9+	2500	1028.1	+2	SW	1	rr	58	97	7	9	8	-	7-8	9+	2000	1	1	bcwmo	ccif	bcwmo	cmw
	The Lizard	1027.1	-4	SW	3	C	63	85	8	5	-	-	7-8	7-8	2000	1027.4	+2	SW	2	C	60	97	8	8	2	-	7-8	9+	1400	0	2	bcwmo	ccif	bcwmo	cmw
	Scilly (St. Mary's)	1026.6	-4	SW	3	id	61	85	6	5	-	-	10	10	600	1026.8	+2	SW	2	C	60	97	7	5	-	-	10	10	800	1	2	bcwmo	ccif	bcwmo	cmw
	Guernsey	1026.6	-4	SW	3	id	61	85	6	5	-	-	10	10	600	1026.8	+2	SW	2	C	60	97	7	5	-	-	10	10	800	1	2	bcwmo	ccif	bcwmo	cmw
6	Pembroke	1026.5	+2	SW	3	C	57	97	7	5	2	-	7-8	10	1000	1026.6	0	SW	4	C	58	97	6	5	2	-	7-8	10	300	1	4	bcwmo	ccif	bcwmo	cmw
7	Holyhead (Valley)	1024.2	-6	S	4	id	60	97	5	5	2	-	9+	10	600	1023.7	-6	S	6	dodo	59	97	4	5	-	-	10	10	400	1	3	bcwmo	ccif	bcwmo	cmw
	Chester (Sealand)	1025.1	-6	SE	3	C	59	92	5	5	7	-	7-8	10	3000	1024.0	-2	S	1	C	60	85	8	5	7	-	0	10	2400	1	*	cmoc	cid	bcwmo	cmw
8	Manchester	1026.0	0	S	3	fo	59	85	6	5	7	-	9	10	4500	1024.9	-6	SW	2	Z	63	85	6	5	-	-	10	10	3000	1	*	cmoc	cid	bcwmo	cmw
10	Spurn Head	1025.6	-6	SE	2	Z	62	85	6	5	2	-	9+	9+	1500	1024.9	+4	SW	3	C	63	75	6	5	6	-	0	9+	1500	0	2	bcwmo	ccif	bcwmo	cmw
	Catterick	1024.4	-14	SW	2	Z	65	85	6	5	7	-	7-8	9+	4000	1023.8	-2	SW	2	C	64	85	7	5	7	-	2-3	7-8	3500	0	*	cmoc	cid	bcwmo	cmw
	Tynemouth	1024.6	-10	S	2	Z	64	75	6	5	-	-	9	9	2500	1023.2	-2	WNE	2	C	61	85	6	8	3	-	4-6	7-8	2800	0	2	cmoc	cid	bcwmo	cmw
11	St. Abbs Head	1021.4	-6	SW	5	C	59	92	8	5	7	-	7-8	10	2000	1019.7	-4	SW	5	C	62	85	9	8	7	2	4-6	9+	2000	1	3	cmoc	cid	bcwmo	cmw
	Leuchars	1021.0	-10	SW	1	C	64	85	7	5	7	-	9	10	2500	1019.9	0	SW	3	C	65	85	8	5	7	-	9	10	2500	0	*	cmoc	cid	bcwmo	cmw
12	Reitrew (Abbots L.)	1021.3	-8	SW	3	C	64	85	6	6	2	-	4-6	10	500	1020.1	-10	SW	3	Z	66	85	6	5	7	1	7-8	9+	1200	0	*	cmoc	cid	bcwmo	cmw
	Eskdalemuir	1023.3	-6	SW	5	C	57	97	2	-	2	-	10	10	4150	1022.6	-2	SW	4	dd	59	92	4	-	2	-	10	10	2150	1	*	cmoc	cid	bcwmo	cmw
	Point of Ayre	1023.4	-2	S	3	C	64	85	8	5	-	-	10	10	1000	1022.5	-4	W	1	C	62	92	8	5	1	6	2-3	7-8	4000	0	2	cmoc	cid	bcwmo	cmw
13A	Tiree	1018.5	-10	SW	4	C	62	92	7	5	-	-	9+	9+	800	1017.4	-6	SW	4	C	60	97	5	5	-	-	10	10	200	1	4	cmoc	cid	bcwmo	cmw
13B	Stornoway	1014.4	-20	S	7	C	59	97	6	5	-	-	7-8	9+	300	1013.9	-4	S	6	C	59	97	6	5	9	-	4-6	9+	500	1	4	cmoc	cid	bcwmo	cmw
15	Dalwhinnie	1020.7	-4	SW	3	C	60	92	6	5	-	-	9+	9+	1500	1019.3	0	SW	3	C	61	92	7	8	-	8	4-6	9+	2500	1	*	cmoc	cid	bcwmo	cmw
	Aberdeen	1020.3	-12	SW	3	id	59	85	6	6	7	-	4-6	9+	300	1018.9	-4	SW	3	Z	63	85	5	5	3	-	7-8	9+	300	1	2	cmoc	cid	bcwmo	cmw
	Wick	1017.2	-18	S	3	C	57	97	6	5	7	8	7	9+	400	1015.9	-6	SW	3	C	61	92	9	5	7	8	4-6	9+	5000	1	*	cmoc	cid	bcwmo	cmw
16	Sumburgh	1019.6	-20	SE	3	fo	54	92	7	6	2	-	7-8	10	900	1015.9	-16	SW	4	fo	56	97	6	5	-	-	9+	10	800	*	*	cmoc	cid	bcwmo	cmw
17	Blackod Point	1015.3	-4	S	4	C	61	97	7	5	-	-	9+	9+	800	1015.9	+4	S	4	id	61	97	7												

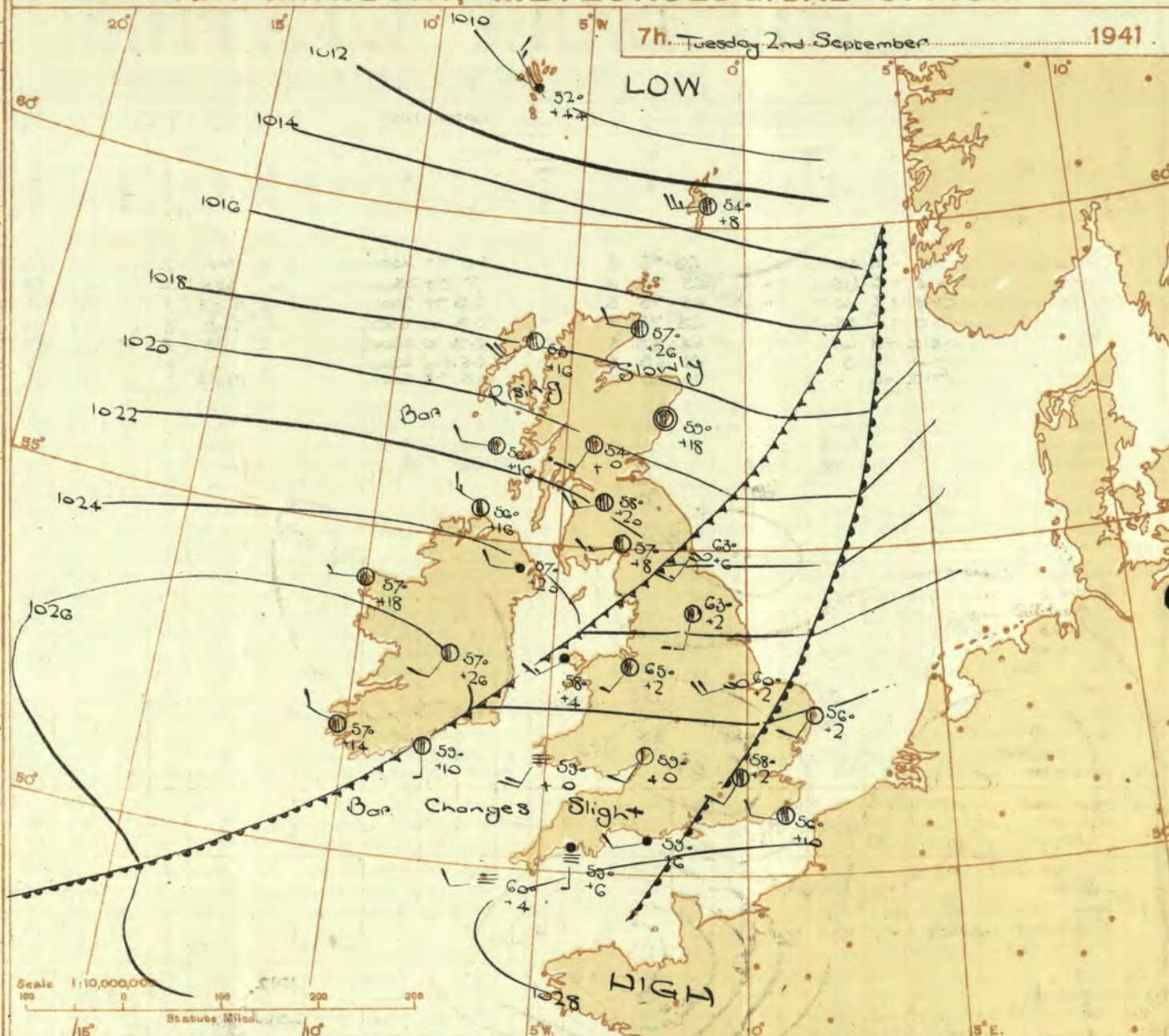


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

18h. G.M.T. 1st. September				18h. G.M.T.				01h. G.M.T. 2nd September				07h. G.M.T.			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub>	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub>	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub>	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	62	22616	14568	5-	22657	18267	5-	61648	20568	53	02846	21567			
115	51	02834	20187					--	67109	20489	5-	81638	22488		
203								5-	52738	20428	5-	03838	16428		
206	87	02065	24256	57	02064	20227	53	02855	22366	57	02064	22567			
210	54	02056	19327	57	02075	16226	54	02865	21486	57	02054	20126			
220				52	03626	17428				51	02844	23228			
230	52	10647	18258	6-	54648	18258	52	21537	20467	5-	51738	21858			
245	52	05656	14168	53	05647	16327	5-	08445	17125	57	07043	28268			
260				54	02853	20215	53	01764	21415	53	02844	19315			
278				52	04616	12358	5-	51628	18368	5-	02847	28327			
279	5-	21858	18458	62	51637	18358	62	21835	18457	6-	05628	22258			
285	53	01745	28326	5-	02537	28427									
288				54	05663	16314	5-	05555	18325	77	05654	18226			
575	53	02848	20357	87	02846	20357	5-	51738	24358	5-	02847	24257			
801	57	62444	14168	57	21654	20168	57	05653	18328	57	53645	20358			
321	52	05675	12428	57	02767	20327	54	08463	20324	53	05664	20315			
299	5-	08445	22215	57	05654	22115	5-	08447	20227						
292	5-	17667	20127	57	22665	21167	5-	08448	18128						
310	--	64428	26368	--	48209	26329				--	46109	26349			
614	57	61577	22368	5-	08448	22368	5-	51348	22228	5-	08446	20226			
333	5-	52618	16368	5-	21628	18458	5-	57308	18358	5-	52407	18357			
334	--	03646	24128	--	03637	26328				--	02645	20227			
340	07	22700	18368	5-	21847	20267	5-	05648	20428	5-	01841	18113			
136	23	02764	20316	09	05690	22227	03	05590	20113	54	05552	20213			
336	51	61762	24368							51	01752	16315			
350	79	22653	22267	79	02763	20127	5-	05646	20226	--	48209	22249			
368	57	22844	18168	07	02890	21229									
379	03	02700	18328	57	02774	18267	04	05690	30214	--	48209	20349			
390	51	02674	20317	57	64763	20268	03	05590	20113	5-	05675	23115			
982	57	61862	20128	57	61765	00067	04	05690	00014	5-	05628	20228			
438	57	01863	23315							54	01763	24214			
430	57	61863	18267				5-	02766	28116	50	01774	22224			
409	52	61835	16267	57	02844	22267	02	57208	17258	02	44208	18258			

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>M</sub> - Form of low and medium cloud—See page 1.  
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. 2nd September 1941
1 S.E. England	Light or moderate W. to N.W. wind; mainly fair but scattered showers; local coast fog at first; rather warm.
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	Moderate West wind backing S.W.; fair at first, rain later; rather warm.
12 S.W. Scotland & Isle of Man	
13A. W. Scotland	Moderate West wind backing S.W., fair at first, perhaps rain later; rather warm.
13B. N.W. Scotland	
14 Mid Scotland	Light or moderate N.W. wind backing S.W.; fair at first, some rain later; rather warm.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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

GENERAL INFERENCE.

An anticyclone on the Continent is receding slowly eastwards and minor troughs of low pressure are crossing the British Isles. A new anticyclone off S.W. Ireland is expected to move S.E. A depression North of the Azores is moving N.E. Weather will be mainly fair but rain may occur later in Ireland and N.W. Scotland.

FURTHER OUTLOOK.

Fair for several days in the South; Unsettled 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.

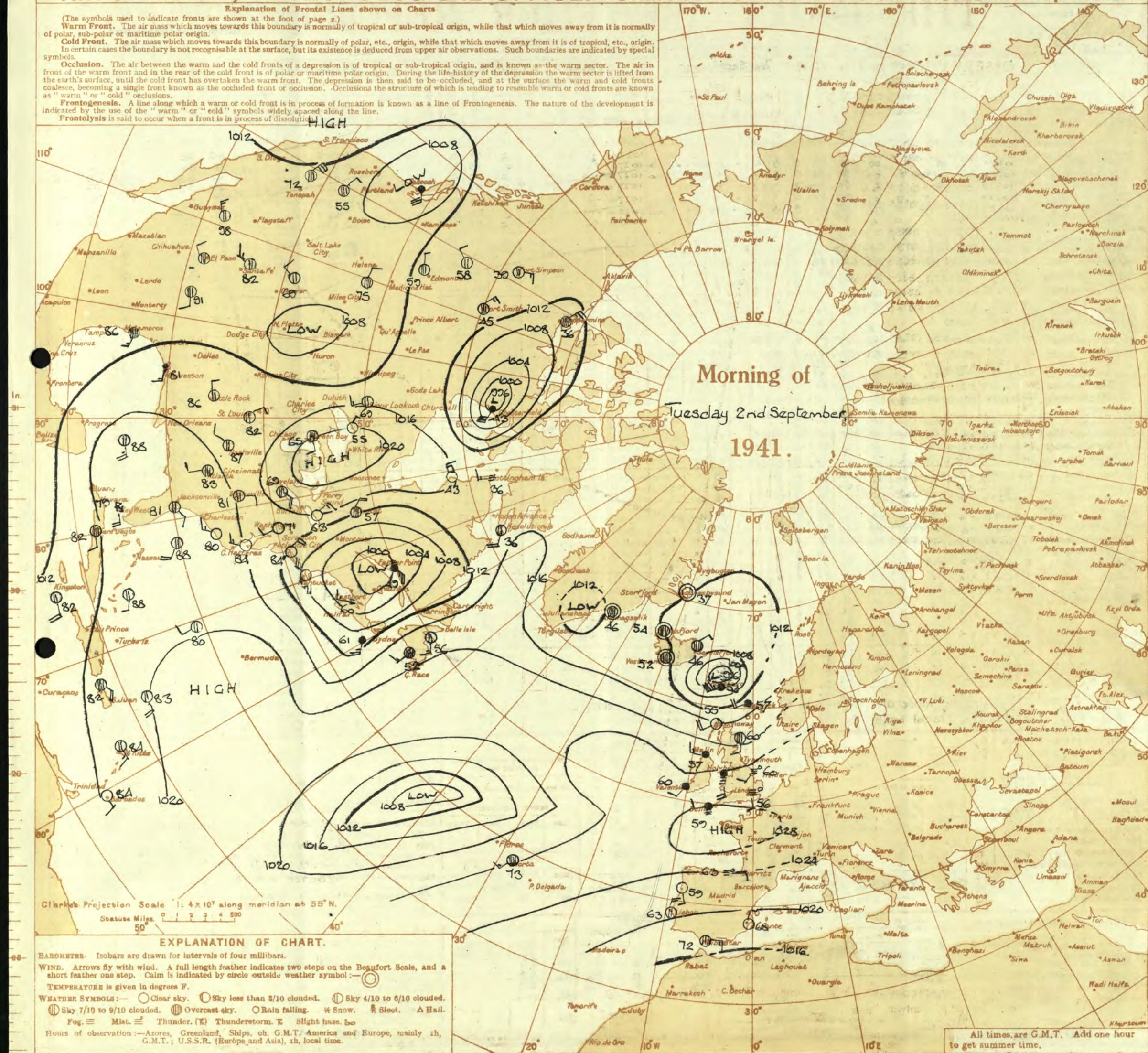
6209/4120. No. 976. D. 8034. Sp. 348. 3100. 5/41



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

## Explanation of Frontal Lines shown on Charts

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





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Tuesday 2nd September.....1941.  
No. 29,139

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

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

PAST 24 HOURS.

DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. (6)	Humid. % (7)	Visibility. (8)	Cloud.				Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. (20)	Humid. % (21)	Visibility. (22)	Cloud.				State of Ground. (29)	Sea. (30)	TEMPERATURE.				RAINFALL.				SUNSHINE Hrs. (38)																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
					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	0-10	0-10	0-10	0-10		0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Wednesday, 3rd September 41.  
No. 29,140

OBSERVATIONS at 13h. G.M.T. 2nd September														OBSERVATIONS at 18h. G.M.T. 2nd September														PAST 24 HOURS.							
DISCREP.	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. mi. (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. mi. (22)	Cloud.					Barom. at M.S.L. mb. (29)	Change in 8 hours. (30)	WEATHER.					
				Dir.	Force. 0-12 (4)					Low.	Med.	High.	Low 0-10 (12)	Total 0-10 (13)			Height of Base. (feet) (14)	Low.					Med.	High.	Low 0-10 (26)	Total 0-10 (27)	Height of Base (feet) (28)			State of Ground. 0-5 (29)	Sea. 0-9 (30)	7h.—13h.	13h.—18h.	18h. 2nd to	1h.—7h.
																																2nd....	2nd....	1h. 3rd.	3rd....
1	London (Kew)...	1027.2	+2	SW	2	bc	66	85	7	5	7	1	2-3	4-6	4000	1027.2	+2	W'N	2	c	71	75	8	8	-	1	4-6	7-8	4000	1	*	abc	bc	c bc m w	c m w
	Croydon ...	1027.0	-2	SW'W	1	c	74	75	7	1	3	1	1	7-8	2500	1026.7	0	SE	1	c	73	75	7	4	3	5	4-6	7-8	3500	1	*	abc bc	bcc	c	c b w m
	S. Farnborough	1027.1	-2	W'S	3	bc	74	75	8	1	8	5	4-6	4-6	2500	1027.4	+2	W'N	3	c	71	75	8	2	5	1	Tr	7-8	3000	1	*	bc	bcc	bcw	bc w m
	Boscombe Down	1027.8	-2	W'N	2	bc	70	75	8	7	4	4	4-6	4-6	2500	1027.3	+2	NNW	2	c	68	85	7	5	3	1	Tr	7-8	2500	0	*	cdj bc	c	bcw	bc Ffe
	Thorney Island	1027.8	-2	SSW	1	c	70	75	7	7	4	4	7-8	3+	4000	1027.6	0	W'N	2	bc	69	85	7	2	6	1	1	2-3	4000	0	*	bc m bc	cbcb	bc m w	bc w m
	Lympe	1027.6	-2	SSW	1	bc	70	75	8	2	4	6	Tr	2-3	3500	1027.4	0	SSW	1	c	64	85	7	3	6	0	7-8	4000	1	*	bc	bc	bc m w	bc m w	
	Manston	1027.0	-6	SSW	2	bc	73	85	8	1	6	Tr	4-6	3500	1027.6	+6	SSW	1	c	68	85	6	4	2	0	1	4-6	4500	0	*	cm bc	bc bc m	bc bc m	bc bc m	
2	Shoeburyness ...	1027.0	-6	S'W	2	bc	73	75	6	1	4	2	1	2-3	4000	1026.6	-2	SW'W	2	c	72	75	6	8	3	1	4-6	7-8	2500	0	*	bc z	bc bc z	bc bc w	bc w c
	Felixstowe ...	1026.3	-6	SSW	1	bc	68	75	6	1	2	1	4-6	3000	1026.1	0	S	2	c	67	85	7	5	1	1	Tr	7-8	3000	1	*	cm bc z	bc z c z	bc m w	bc m w	
	Gorleston ...	1026.1	+4	SW	1	c	66	85	6	5	1	1	4-6	2000	1026.1	0	SE	1	c	67	85	6	2	6	1	4-6	7-8	2000	0	*	bc bc	c	bc m w	bc m w	
	Mildenhall ...	1026.0	+4	WSW	3	c	75	75	8	1	2	2	2-3	7-8	3000	1026.5	+4	W'N	2	c	72	85	7	5	7	1	7-8	3	4000	0	*	cm bc	cbcc	bc m w	bc m w
	Cranwell ...	1025.5	0	W	4	bc	72	75	6	1	4	2	Tr	4-6	1000	1026.2	+2	NW	1	bc	70	85	6	8	2	2	2-3	7-8	2000	0	*	bc z	bc z p r	bc m	bc m w
3	Birmingham	1026.2	+2	SW	2	c	65	75	8	5	1	1	4-6	1500	1026.7	+2	NW	2	c	69	85	8	8	7	2	7-8	3+	4000	1	*	bc	cbcc	cbcc	bc m	
4	Upper Heyford	1027.0	-4	SW'W	3	c	71	75	7	8	7	1	7-8	7-8	2500	1026.6	+2	W'S	2	bc	70	85	6	7	1	1	Tr	7-8	1500	1	*	cm cm bc c	c	cm cm	bc m w
4	Ross-on-Wye ...	1026.8	0	SW'W	3	c	69	85	6	5	1	1	4-6	2500	1026.6	0	SW	3	c	68	85	8	5	1	1	Tr	7-8	4000	1	*	bc	c	cm	cm	
5	Hartland Point	1028.1	+2	SW	3	bc	61	87	1	1	1	1	10	10	1150	1027.9	0	WSW	2	F	60	87	1	1	1	10	10	1150	1	*	dFdF	dFdF	F Fld	ld F F	
	Bristol ...	1028.1	+2	W	3	c	68	85	8	5	1	1	10	10	1200	1027.8	-4	WNW	3	c	66	85	8	5	1	1	Tr	7-8	1200	0	*	c	c	cm of	F Fw
	Portland Bill	1028.5	+6	W	2	0	63	85	8	5	2	1	7-8	10	2500	1028.0	+6	W	1	bc	62	85	8	2	1	1	4-6	4-6	4000	1	*	bc	bc bc	bc	bc
	Plymouth	1028.4	+2	SW	2	bc	64	82	6	5	1	1	10	10	600	1028.6	-6	SW	2	c	63	82	6	5	1	1	Tr	7-8	1000	1	*	bc	bc	bc bc	bc bc
	The Lizard	1028.8	0	W	3	bc	65	82	1	5	1	1	10	10	600	1028.2	-2	W	2	c	61	87	1	5	1	1	Tr	7-8	400	1	*	bc	bc	bc bc	bc bc
	Scilly (St. Mary's)	1028.6	+2	WSW	3	bc	64	87	3	5	1	1	10	10	800	1028.5	-2	W	2	c	62	87	2	5	1	1	Tr	7-8	500	1	*	bc	bc	bc bc	bc bc
6	Pembroke	1028.1	+2	W	3	bc	60	87	2	5	1	1	10	10	1150	1028.4	0	WNW	1	bc	61	87	6	5	1	1	Tr	7-8	2000	1	*	bc	bc	bc bc	bc bc
7	Holyhead (Valley)	1027.0	+10	WNW	2	bc	65	85	8	5	1	1	10	10	2500	1027.7	+4	NW	2	c	62	75	9	5	3	8	4-6	3000	0	*	bc	bc	bc bc	bc bc	
8	Chester (Sealand)	1026.3	+2	NW	3	bc	65	85	6	5	7	1	7-8	10	300	1027.4	+4	NW	3	c	64	85	7	7	6	2	2-3	7-8	1000	0	*	bc	bc	bc bc	bc bc
8	Manchester	1026.5	+6	W	3	bc	64	82	6	5	2	1	10	10	800	1027.4	+4	WNW	3	c	63	85	7	8	1	1	Tr	7-8	3000	0	*	bc	bc	bc bc	bc bc
10	Spurn Head	1028.3	+2	NW'N	3	bc	68	75	6	4	6	2	4-6	7-8	4000	1028.4	+2	WNW	3	bc	65	87	5	4	7	2	4-6	7-8	2500	0	*	bc	bc	bc bc	bc bc
	Catterick	1024.9	+2	W'S	3	c	70	65	9	8	3	2	2-3	3	2500	1026.2	+10	W	2	c	68	65	8	4	1	2	Tr	7-8	3000	0	*	bc	bc	bc bc	bc bc
	Tynemouth	1023.8	+6	W	5	c	70	65	7	2	3	1	4-6	3	3200	1026.2	+14	W	4	bc	67	65	7	2	3	1	2-3	4-6	3400	0	*	bc	bc	bc bc	bc bc
11	St. Abbs Head	1022.2	+4	W	3	c	62	75	8	2	7	5	7-8	7-8	2000	1025.3	+18	W	2	c	61	75	8	4	4	7	1	10	2500	1	*	bc	bc	bc bc	bc bc
	Leuchars	1022.3	+8	W	5	c	66	65	9	5	7	6	1	3	2200	1024.8	+12	W	6	bc	63	75	9	5	1	2	1	4-6	2500	0	*	bc	bc	bc bc	bc bc
12	RAF Leuchars (Abbots L.)	1025.2	+10	WSW	4	c	63	65	8	8	1	1	7-8	9	2000	1026.7	+2	W	3	c	60	75	8	8	3	6	4-6	3	2000	1	*	bc	bc	bc bc	bc bc
	Blackdunmure	1024.2	+6	W	4	c	62	75	8	7	7	7	2-3	10	2500	1026.3	+10	W	2	c	59	75	8	7	4	1	7-8	2500	1	*	bc	bc	bc bc	bc bc	
	Point of Ayre	1026.6	+12	NW	2	c	65	85	8	5	3	1	4-6	3+	1800	1027.6	+4	WNW	1	bc	61	85	8	1	2	Tr	4-6	4000	0	*	bc	bc	bc bc	bc bc	
13a	Tiree	1024.4	+12	WSW	4	c	58	85	8	5	1	1	3	3	2200	1025.7	+10	WSW	3	c	58	82	7	5	1	1	Tr	7-8	1800	0	*	bc	bc	bc bc	bc bc
13b	Stornoway	1021.7	+8	SW	5	c	60	75	8	5	7	2	7-8	3+	3000	1022.7	+4	SW	5	c	59	75	8	5	7	1	7-8	3+	2000	1	*	bc	bc	bc bc	bc bc
15	Dalwhinnie	1024.6	+14	NW	3	c	58	65	8	5	1	1	7-8	3+	2500	1024.8	+8	SW	3	c	56	85	8	5	1	1	Tr	7-8	1500	0	*	bc	bc	bc bc	bc bc
	Aberdeen	1021.9	+12	NW	3	c	63	65	8	1	1	1	4-6	7-8	2200	1024.8	+10	NW	3	bc	64	66	8	4	4	6	1	2-3	3800	1	*	bc	bc	bc bc	bc bc
	Wick	1021.1	+14	W'S	3	c	61	75	8	5	1	1	7-8	3+	2500	1023.4	+10	SW	2	c	59	75	8	5	3	8	3	3	4500	0	*	bc	bc	bc bc	bc bc
16	Sumburgh	1018.1	+18	WNW	4	c	56	85	8	8	3	4	2-3	7-8	1400	1020.7	+16	W'S	4	bc	54	87	8	1	1	4	Tr	4-6	300	*	*	bc	bc	bc bc	bc bc
17	Blackad Point	1026.6	+4	SSW	2	c	60	85	8	1	7	1	0	3	1	1026.6	-8	SSW	2	bc	60	85	8	2	1	3	1	2-3	4000	0	*	bc	bc	bc bc	bc bc
18	Malin Head	1025.8	+12	W	4	c	60	75	8	5	1	1	7-8	7-8	4000	1026.3	+2	W	3	c	59	85	8	9	1	1	7-8	7-8	4000	0	*	bc	bc	bc bc	bc bc
	Aldergrove	1027.0	+10	SW'W	2	c	62	75	8	5	1	1	3	3	2000	1027.5	+4	SW	1	c	63	75	8	5	1										



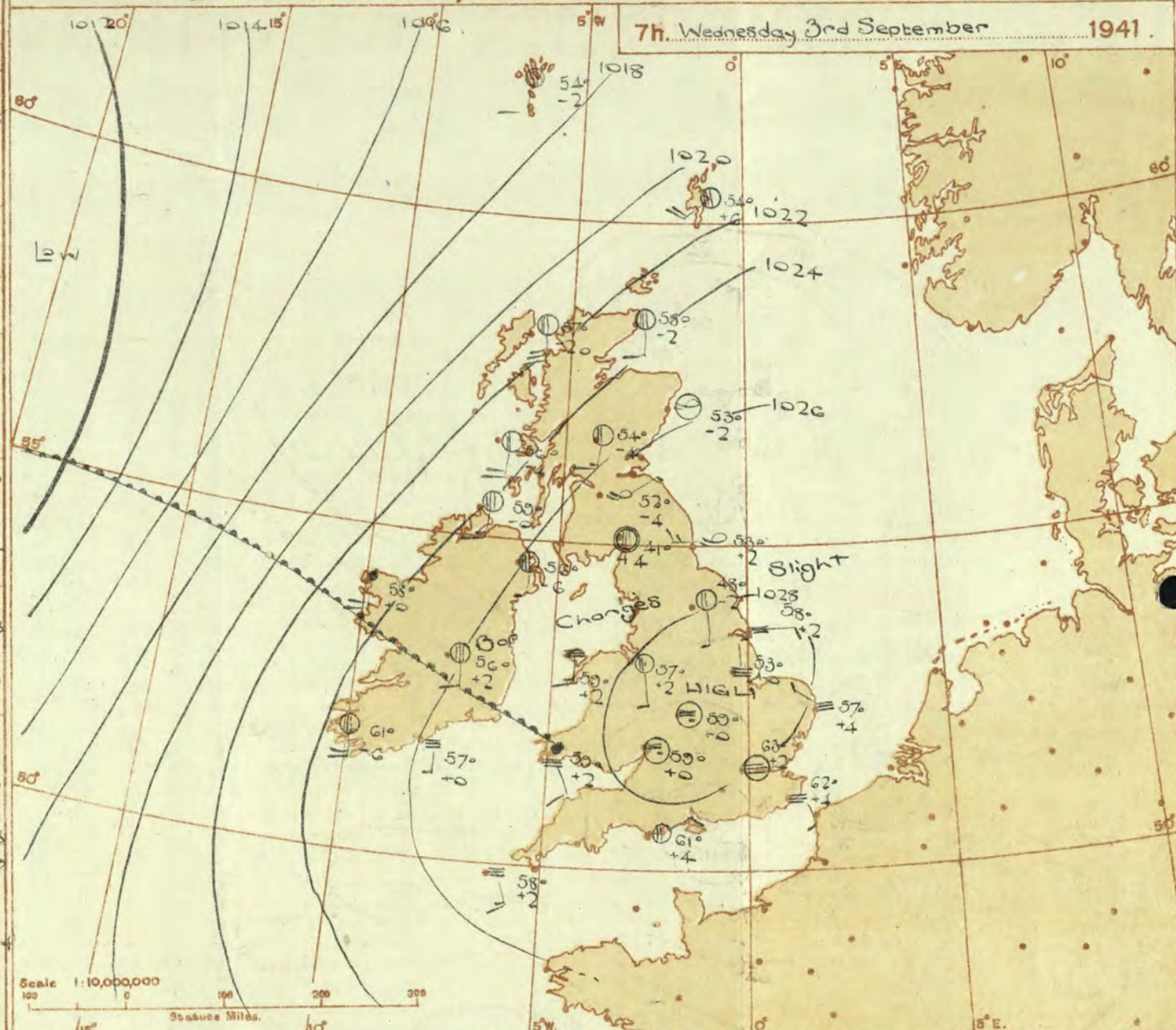
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 2nd September	15h. G.M.T.	01h. G.M.T. 3rd September	07h. G.M.T.
III, C, wwVhN, DDFWN, C, C <sub>M</sub> , wwVhN, DDFWN, C, C <sub>M</sub> , wwVhN, DDFWN, C, C <sub>M</sub> , wwVhN, DDFWN			
109 5- 02747 23557 50 01864 20515 57 02743 21624 52 61776 14228			
115 52 81834 20487 52 81744 20487 52 81725 20488 52 81835 20388			
203 5- 62838 16528 5- 51938 20328			
206 87 02965 22426 83 02964 24228 57 61064 20127 53 02965 20267			
210 8- 02954 22425 57 02964 22327 5- 02968 20328 07 02990 18267			
220 53 02844 10227			
230 87 02857 20388 52 02846 20388 57 02855 00025 23 01953 00014			
245 20 02962 22510 47 02962 24325 53 02774 24228 50 01954 23325			
260 70 02854 22327 46 01863 22315 54 01763 00015 54 01863 22215			
278 5- 02967 28427 5- 02865 30326 00 00800 15211 50 02731 12217			
279 8- 02856 21357 80 02964 25226 00 05500 22210 53 00533 12246			
285 23 02744 24520 13 01743 26525			
288 83 02854 25220 40 05663 27214 00 05600 18100 00 01800 17104			
575 5- 02857 28327 50 01854 00014 01 00001 26051 5- 05638 12208			
801 5- 05629 26258 20 01851 28215 5- 05468 12148			
321 50 05663 25315 00 08400 25214 00 45300 24143			
299 57 01754 22284 87 01754 24314 50 05661 28213 50 01753 00003			
292 70 01854 22224 54 02852 22225 07 00800 20112 00 05600 00043			
310 -- 46109 26449 -- 01645 24315 -- 01644 24314			
614 5- 05635 22327 14 05641 28224 03 47300 24115 00 47300 00041			
333 5- 02635 24258 5- 02754 28225 5 05517 00027 5- 02857 16227			
334 -- 02745 20210 -- 01672 20220 3			
340 2- 02956 22210 50 02855 30226 04 08400 32111 5- 05657 16127			
136 6 05654 22320 5- 05667 25317 03 05600 26214 -- 46109 00040			
336 51 21653 16350 53 01762 24314 51 02782 28316			
350 20 01764 20215 86 02755 22127 5- 05557 00027 5- 05566 08126			
368 52 21635 22358 53 21734 26255			
379 2- 02747 21227 43 01754 22215 5- 05528 26128 5- 08447 02247			
390 13 01774 24215 83 01763 24115 54 04661 25122 5- 05566 28146			
382 17 02750 24210 53 02764 23225 03 05500 00016 5- 08418 00028			
438 38 01734 21314 -- 46000 00040			
430 50 05755 22215 40 00861 22302 50 47273 00023 00 41400 32145			
400 5- 03728 28248 5- 52408 25258 50 45107 00058			

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 3rd September 1941.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 3rd September 1941.
1 S.E. England	Light variable winds; fine, with mainly small amounts of cloud, but with considerable morning mist or fog; rather warm.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light variable to S.E. winds; fair, but considerable coastal fog at first; clearing later; rather warm.
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.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Moderate S. or S.W. winds; cloudy with local rain or showers; average temperature.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	Mainly moderate Southerly winds; mainly fair, but some slight rain or drizzle on W. and S.W. coasts; local coast fog in the W. and S.; 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: A line with semi-circles on the warm side.  
 Cold Front on the Surface: A line with triangles on the cold side.  
 Occluded Front (or Occlusion): A line with semi-circles and triangles on the same side.  
 Warm Occlusion: A line with semi-circles and triangles on the warm side.  
 Cold Occlusion: A line with triangles and semi-circles on the cold side.  
 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 England and Wales, but minor troughs of low pressure are moving northeastwards across Ireland and Scotland. There will be some slight local rain in the extreme North and West, but elsewhere weather will be fair, but with morning fog in many places.

FURTHER OUTLOOK.

Fair, except in the extreme North and West.

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.

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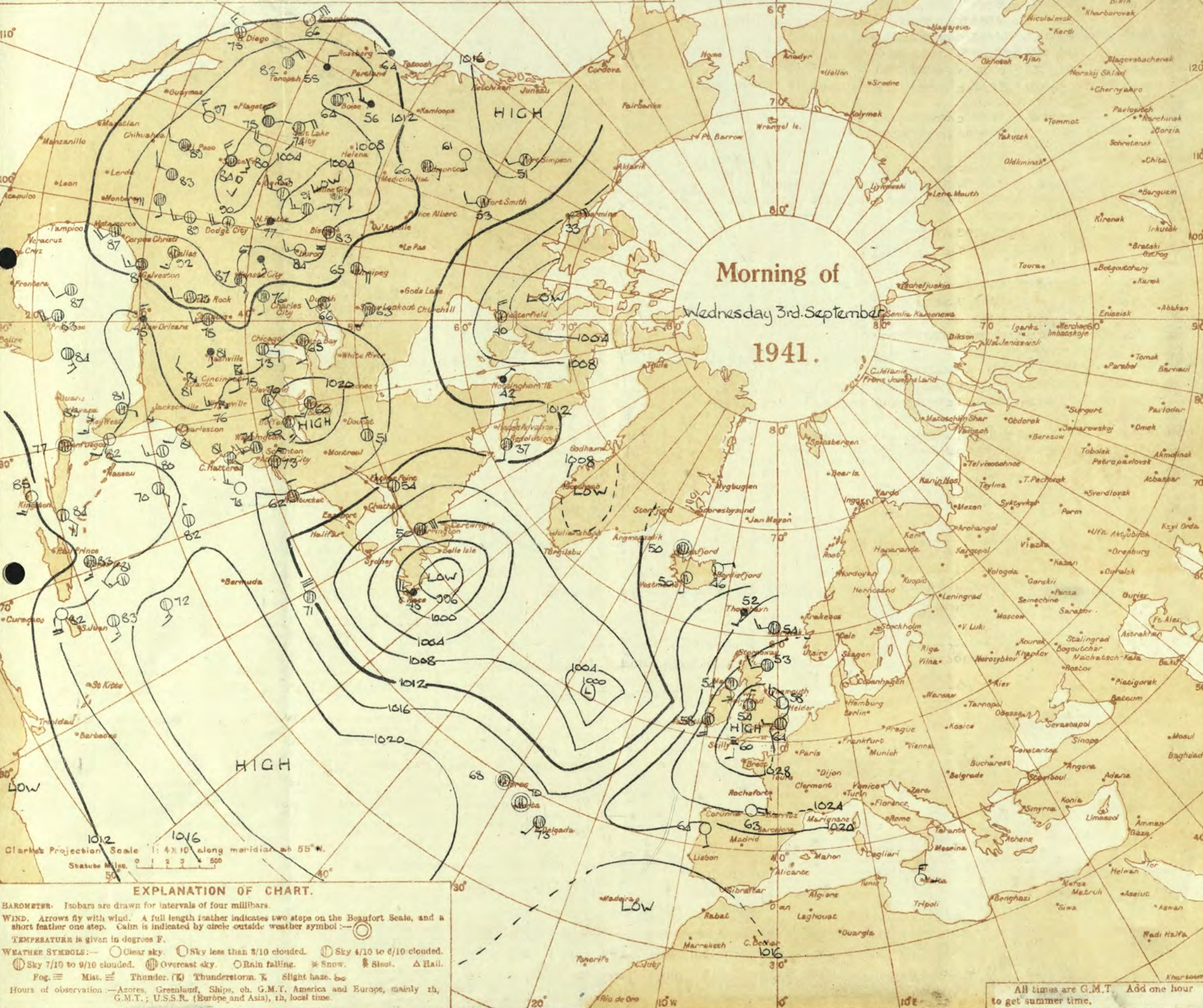


# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

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

Morning of  
Wednesday 3rd September  
1941.



## EXPLANATION OF CHART.

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

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



# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 3rd September														OBSERVATIONS at 7 hr. G.M.T. 3rd September														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.				Sea.	TEMPERATURE.			RAINFALL.		SUN-SHINE 2nd Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
					Dir.	Force.					Form.	Amount.	Height of Base (feet).	Dir.			Force.	Form.					Amount.	Height of Base (feet).	State of Ground.	0-9		Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
															0-12				0-10	0-10	0-10	0-10					0-9							0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

# SECRET

Thursday 4th September 1941.  
No 29, 141

OBSERVATIONS at 13h. G.M.T. 3rd September.														OBSERVATIONS at 18h. G.M.T. 3rd September.														PAST 24 HOURS.							
Diameter.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.					
				Direc. (3)	Force. 0-12 (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Form. (23)	Amount. (24)			Height of Base. (feet) (25)	7h.-13h. 3rd (37)					13h.-18h. 3rd (38)	18h. 3rd to 1h. 4th (39)	1h.-7h. 4th (40)										
																										Low. (12)	Med. (13)			High (14)	Low (26)	Med. (27)	High (28)		
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lymington Manston	1027.7 1027.5 1027.8 1028.1 1028.2 1028.2 1028.3	-6 -2 -8 -8 -4 -4 -10	- - WNW - S SE EN	0 1 1 0 2 1 1	N bc bc C f f N	75 75 73 72 66 68 70	65 75 75 76 72 83 85	6 7 7 8 5 5 5	8 2 2 - 5 1 5	- - - - - - -	4-6 4-6 4-6 2 2 4-6 Tr	4-6 7-8 3 3 150 3500 Tr	4000 3500 3000 2000 1500 3500 2000	1026.3 1026.2 1025.8 1026.5 1026.7 1027.1 1027.2	-6 -4 -4 -10 -10 -4 -2	- SSW SWW S SE SE ESE	0 1 1 1 1 1 1	N bc bc N f f N	72 72 74 71 62 62 65	75 85 75 75 77 85 85	6 7 7 6 3 6 6	8 2 1 1 1 - -	- 2 2 - - - 1 2	2-4 2-3 2-3 2-3 10 1 0	2-4 2-3 2-3 2-3 10 1 2	4000 2500 3000 3000 1500 - -	1 0 1 0 0 1 0	1 - - - - - - -	cm, b, bc, z om, cm, b, bc om, cm, bc FF, cm, bc off, cm off, bc cm, b, m, b, bc, m	b, cc, u, z b, m, b b, m, w, f, f b, m, b, f, f b, m, b, f, f off, f, w b, m, w b, m, b, f, f	cm, b, cc, u, b, m, w b, m, b b, m, w, f, f b, m, b, f, f b, m, b, f, f off, f, w b, m, w b, m, b, f, f			
2	Shoeburyness ... Felixstowe Gorleston Mildenhall Cranwell	1028.0 1028.2 1028.4 1028.0 1027.8	-6 +2 -2 -6 -8	EN ESE NE/N N SW	2 2 1 1 2	N N C bc N	69 67 63 74 71	75 85 85 75 68	6 6 4 7 6	5 1 5 1 1	4 - - - -	1 2-3 2-3 7-8 4-6	2-3 3500 2000 3500 2500	4000 3500 2000 3500 2500	1027.2 1027.1 1027.5 1026.5 1026.3	-6 -6 -8 -10 -4	E E E ESE SW	2 2 - 2 1	N f f bc N	65 60 62 73 69	85 97 92 85 75	6 2 1 7 6	- - 8 4 -	3 - - - -	1 - - 2-3 0	0 4-6 10 10 2-3	4-6 1500 1500 4000 -	0 1 0 0 0	1 - - - -	cm, b, z cm, b, cm off, cm b, cm, b, bc b, m, z	b, z, b, c, m b, cm, b, m, g, d, f off, f, w b, m, b, f, f b, z, b, m, b, m	b, c, f, f off, f, w off, f, w b, m, b, f, f b, m, b, f, f			
3	Birmingham Upper Heyford	1027.3 1027.7	-2 -8	SW W	2 1	bc N	71 73	55 65	8 6	5 8	- -	2-3 4-6	2-3 2000	4000 2000	1025.8 1026.0	-10 -6	SSW -	2 -	b N	72 73	55 65	8 6	1 -	- -	Tr 0	Tr 0	4000 -	1 0	1 -	cb cm, b, cm, b, m	b b, b, m, b, m	b, m, w b, m, b, f, f			
4	Ross-on-Wye	1027.5	-6	WNW	2	bc	71	75	7	1	-	4-6	4-6	4000	1025.8	-10	SSW	1	N	71	75	7	-	-	1	0	1	-	1	1	cm, b, cm, b, m	b, m, w	b, f, f		
5	Hartland Point Bristol ... Portland Bill Plymouth The Lizard Silly (St. Mary's) Guernsey	1027.1 1027.2 1028.1 1027.6 1027.0 1026.5	-8 -6 -6 -8 -4 -6	NNE E E SW E E	2 0 2 3 4 4	C f f f f f	62 73 63 64 61 61	77 83 82 83 77 77	8 5 5 7 1 2	5 5 5 1 5 5	6 4 7 1 - -	4-6 7-8 7-8 7-8 10 10	1500 2400 2500 3000 400 500	1024.6 1025.3 1026.3 1025.8 1024.5 1024.2	-14 -6 -6 -10 -12 -14	ENE E E SW EN E	3 0 2 2 4 4	C b f f f f	66 72 62 61 59 60	85 75 92 92 97 97	8 5 2 8 1 3	5 - 5 2 5 -	- - - - - -	3 3 1 1 1 1	0 3 3 10 10 10	3000 4000 1500 2000 400 500	0 0 1 0 1 1	2 2 3 - - -	cm cm, c c, f off, f, w off, f, w off, f, w	c c, b off off off off	cb, b off, f, w off, f, w b, m b, c, f, f, f f, f, e	b b, f, f b, m b, m, b, f, f f, f, e			
6	Pembroke	1027.7	-4	SE	3	bc	64	72	7	6	2	2-3	2-3	2500	1025.1	-20	SE/E	4	bc	61	77	8	1	3	-	2-3	2-3	4000	1	2	f, f, e, bc	bc	b, b, w	b, b, b, w	
7	Holyhead (Valley)	1027.4	-2	SSW	2	f	64	72	9	5	-	7-8	7-8	2000	1025.4	-10	SW	1	b	62	72	8	5	-	1	Tr	Tr	500	0	1	off, d	cb, b	b, f, f, w	b, f, f, w	
8	Chester (Sealand)	1027.0	-10	-	0	bc	75	85	6	5	-	2-3	2-3	2000	1025.2	-8	WNW	2	b	66	75	6	-	3	1	0	2-3	-	0	0	b, m, b, bc	b, b, m, w	b, m, w, f, f		
8	Manchester	1027.9	-10	-	0	N	72	55	6	-	-	0	0	-	1025.8	-10	SSW	1	N	71	65	6	-	-	1	0	2-3	-	0	0	cz, b, cz, y	b, z, y	b, c, f, f	off, f, w	
10	Spurn Head Catterick Tynemouth	1028.6 1027.3 1027.4	-4 -6 -6	ESE SW E	2 2 1	f bc N	59 71 61	77 55 75	2 7 5	- - 1	- - -	10 0 4-6	10 2-3 4-6	1500 - 2200	1026.7 1025.3 1025.5	-8 -4 -10	NE/N WSW SE	3 2 3	N b bc	59 72 60	77 55 85	6 7 6	- - 8	- 1 0	0 Tr 2-3	- - -	0 0 2	2 0 2	off b, b, b, y bc, z	f, m b, c, y, y bc, z	b, m b, m, b, m bc, b	b, m b, f, f, f, f b, b, c, m			
11	St. Abbs Head Leuchars	1025.2 1024.6	-6 -8	S W	4 5	bc N	65 69	75 75	8 6	4 2	4 5	1 2-3	2-3 2500	2500	1023.2 1022.8	-10 -9	WSW WSW	4 3	b b	65 68	75 73	8 7	4 -7	- - - - -	Tr 0	1 1 1 1	3000 - - -	0 0 0 0	2 0 0 0	bc bc, m cm, b, b bc, b	b, c, b b, b, m, b b b	b, b, c b, b, c, w b, b, c, w b, b, c, w			
12	Reafrew (Abbots L.) Eskdalemuir Point of Ayre	1025.8 1027.2 1027.3	-8 -2 -2	WSW SW S	3 3 4	bc C bc	68 57 66	65 85 75	8 7 8	1 5 5	- - 1	2-3 10 2-3	2-3 1500 2500	2500	1024.4 1025.0 1025.5	-4 -10 -8	W SW S	3 2 3	b bc b	64 60 63	75 85 85	8 7 8	- 1 5	- 2 1	0 2-3 1	Tr 2500 1600	0 1 0	2 1 2	bc b, c, f, w bc, b	b cb, b cb, b	b, b, c d, d, c, c f, f, w	b, b, c b, c, b, f f, c, b, w			
13A	Tiree	1023.8	0	SSW	4	C	61	85	7	5	-	2-4	2-4	1800	1023.3	-4	SSW	2	C	61	77	7	5	-	-	7-8	7-8	2500	0	3	b, c, c	C	b, b, c	b, b, c	
13B	Stornoway	1026.0	+2	S	6	C	60	85	8	5	7	7-8	10	1800	1019.5	-6	S	6	N	59	72	6	5	7	-	9	10	1000	1	4	C	C	C	C	
15	Dalwhinnie	1023.9	+2	SW	4	bc	64	65	8	1	4	1	Tr	4-6	4000	1022.5	-4	SW	3	bc	61	75	8	8	-	-	2-3	2-3	4000	0	*	bc	bc	*	b, c, c
16	Aberdeen Wick Sumburgh	1022.7 1020.7 1021.3	-16 -14 -10	SSW SE SW	3 3 3	bc bc f	69 62 55	68 85 72	8 9 7	4 5 7	4 2 -	Tr 4 Tr	2-3 5700 200	4900 1018.9 900	1020.8 1018.9 1018.0	-8 -6 -22	SW SE SSW	3 1 3	b bc f	69 71 55	65 85 72	8 9 8	4 5 5	4 3 -	0 1 10	Tr 2-3 10	4900 3500 1500	0 0 *	2 4 4	bc, b c, c, bc c, c, bc	b, c, b, c b, c, b, c b, c, b, c	b, c, c b, c, c b, c, c	b, c, c b, c, c b, c, c		
17	Blackod Point	1022.7	-8	S	6	bc	62	85	8	2	-	4-6	4-6	1500	1021.8	-10	S/W	3	bc	64	75	9	2	-	-	2-3	2-3	4000	0	2	bc	bc	b	bc	
18	Malin Head Aldergrove	1023.4 1025.9	+2 -6	SSW SSW	4 2	bc bc	69 67	75 75	8 8	5 7	7 3	2-3 2-3	4-6 2500	5700 2500	1022.3 1024.3	-6 -6	S S/W	3 1	bc bc	68 66	85 85	8 8	5 8	- -	2 4-6	4-6 2500	0 0	2 0	bc bc	bc b, b, bc	b, c, b, c b, c, b, c	b, c, b, c b, c, b, c			
19	Birr Castle	1025.0	-8	S	2	C	71	75	8	4	-	7-8	7-8	2500	1023.6	-2	S	2	bc	68	75	8	2	4	-	2-3	4-6	1500	0	*	C	bc	b, c	C	
20	Valentia Obay. Roches Point	1023.6 1026.0	-8 -4	SE SE	4 4	b bc	73 62	65 77	9 7	1 5	- -	Tr 4-6	2500 450	2500	1021.9 1024.3	-10 -10	SE SE	4 4	b f	70 59	65 77	9 2	5 5	- -	1 10	0 10	Tr 1500	1 1	3 4	bc, b, v bc, b, c	b, v, b f, f, e	b, b, c f, f, e	b, b, c f, f, e		

### 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.  
fa, low fog over sea (coast station).  
fg, low fog over land (inland station).  
m, mist, visibility 1100-2200 yds.  
h, hail. i, intermittent.  
jf, fog at a distance, but not at station.  
jp, precipitation within sight of station.  
ks, storm of drifting snow.  
k/s, slight storm of drifting snow (generally low).  
k/S, heavy storm of drifting snow (generally low).  
s<sub>u</sub>/k, slight storm of drifting snow (generally high).  
S/k, heavy storm of drifting snow (generally high).  
KQ, line squall. l, lightning.  
o, overcast sky. p, passing showers.

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

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

rr, continuous rain.

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

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

A "solidus" divides actual exist-  
ing weather from preceding con-  
ditions thus:—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,-Ce:    Cirrostratus,-Cs:    Altocumulus,-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.

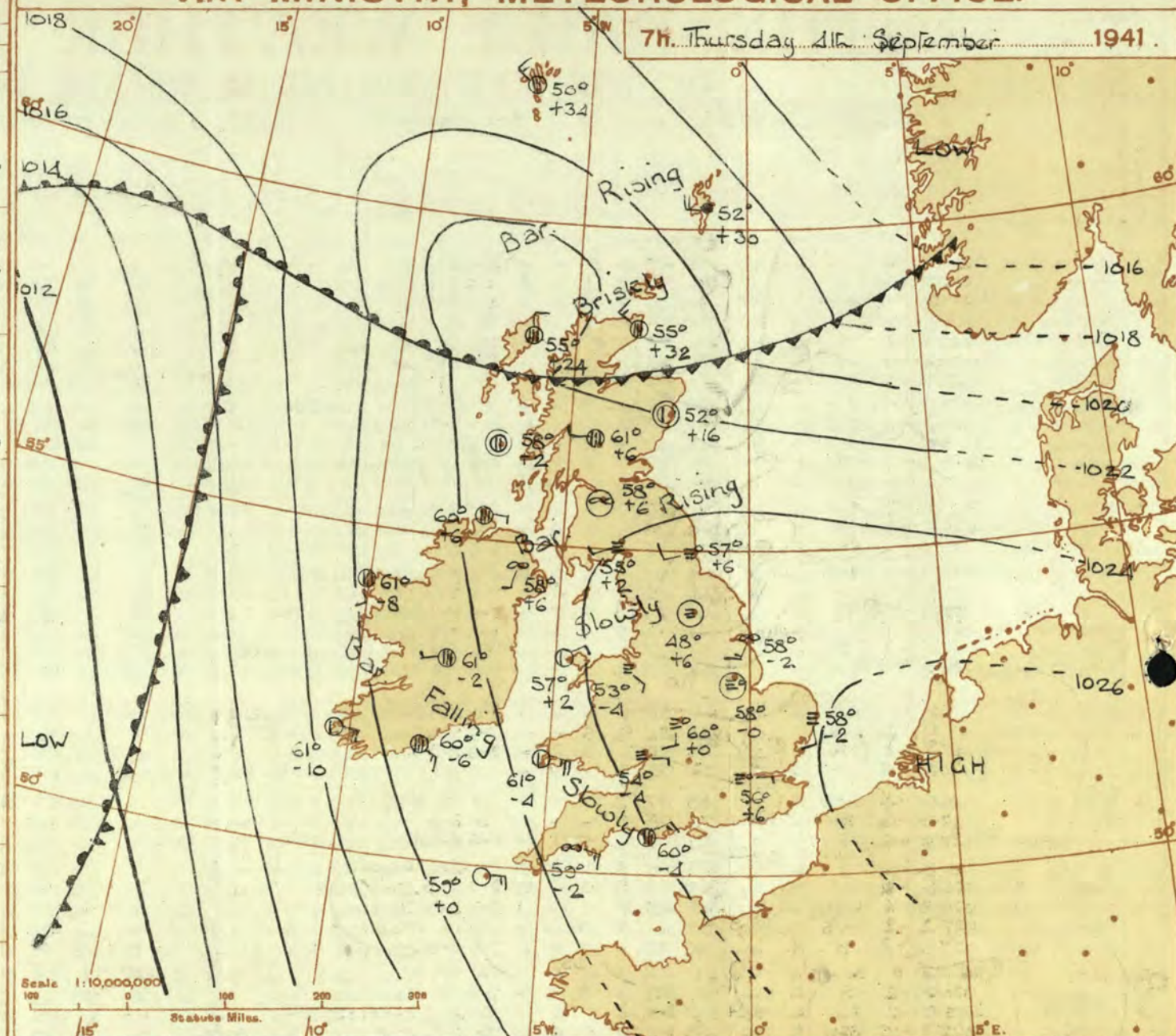


Abridged observations of additional stations in the AVIATION WEATHER CODE															
13h. G.M.T. 3rd September				18h. G.M.T.				01h. G.M.T. 4th September				07h. G.M.T.			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	57	03833	14327	53	02854	19224	5-	14758	53628	67	61834	24457			
115				51	02644	20587	52	52738	20558	52	62838	04268			
203				5-	22152	02746									
206	54	01973	24423	53	02964	22225	87	02862	57325	84	02964	24227			
210	04	01920	20124	70	01972	53513	54	01964	21315	54	02964	20415			
220				52	57218	21458				57	02853	17110			
230	84	00942	20212	5-	02857	20217	5-	02757	00027	5-	02748	00028			
245	14	01751	20415	14	00861	20401	00	00830	20400	54	00862	22303			
260	10	01864	19314					50	05654	20204	5-	02767	00017		
278	5-	02247	14327	5-	52508	14358	5-	51208	12258						
279	53	00763	21313	00	00890	22201	5-	05637	22227	5-	21318	20158			
285				00	00790	30300				13	04651	32112			
288	00	01890	20213				00	47190	00040	--	46109	18149			
575	5-	02845	16115	74	01854	12114	50	00761	12221	5-	02837	12127			
301	00	05620	24210	00	00790	30101	00	47190	00040	00	43390	08140			
321	10	05661	16201	00	05630	15200	00	47290	00040	00	47190	28140			
299				--	44309	20349	00	05580	12140	00	45090	20240			
292	00	01790	20114	00	17590	00000	00	43190	00040	--	45003	00059			
310	--	05544	24314	--	05642	24212				--	01643	24313			
614	10	05661	26111	00	05630	22110	00	45290	00040	5-	43115	00047			
333	5-	51848	16258	00	00890	12111	00	05630	00000	00	00790	00000			
334				--	00890	24101				--	04257	00017			
340	10	00763	19213	00	00790	16103	00	47290	31100	--	46103	14149			
136				10	0764	30204	53	41411	14244	00	05630	14240			
336	14	01762	16313	54	01762	16313				--	46109	16349			
350	20	05664	06114	20	05663	16113	03	08409	12214	55	05563	12214			
368	10	01853	12244	44	00862	10113									
379	10	01764	20214	00	00790	20210	00	05630	12100	00	43390	14243			
390	2-	01754	00024	03	01790	12114	5-	05567	09227	--	46209	10249			
382	70	05645	00025	00	00790	00000	00	47290	00040	00	43190	00040			
438	5-	45429	17249							--	48003	04349			
430	10	05651	12311	--	48109	04249	00	49490	04140	00	05590	06140			
400	10	01744	12324	14	00842	11303	00	00790	12400	00	00790	10301			

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

# AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 4th September 1941.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 4th Sept. 1941.
1 S.E. England	Light variable winds; fine, but with considerable morning fog; rather warm.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light or moderate S.E. wind; fine and rather warm.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	As 1-4
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Light or moderate variable wind; mainly cloudy; some slight local rain at first; 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	
18 N. E. Ireland	Moderate S.E. winds; fair rather warm.
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 centred off Eastern England is moving slowly away eastwards, while a feeble trough of low pressure is moving slowly south across Scotland. Weather will be mainly fair or fine, but with considerable morning fog over much of England, and with some local rain in North Scotland at first.

## FURTHER OUTLOOK.

Mainly fine or fair.

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

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

0.209/420. No. 9176. O. 0034. 6p. 349. 3000. 8/41

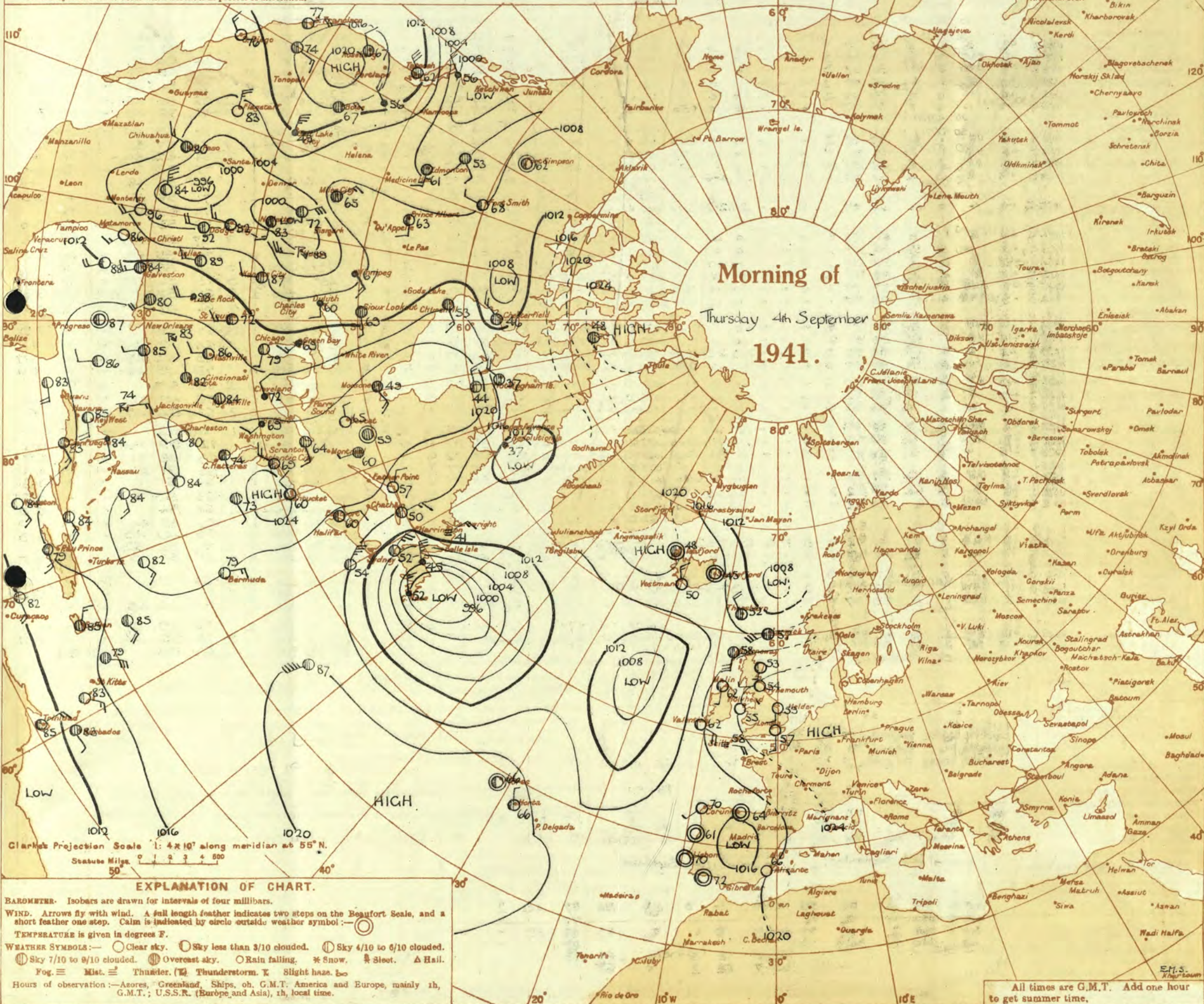


# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

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

Morning of  
Thursday 4th September  
1941.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 4th September														OBSERVATIONS at 7 hr. G.M.T. 4th September														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. (8)	Humid. (7)	Visibility. (9)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. (20)	Humid. (21)	Visibility. (22)	Cloud.					State of Ground. (30)	TEMPERATURE.		RAINFALL.		Sun-shine (36)			
					Dirce.	Force.					Form.	Amount.	Height of Base. (feet).	Dirce.	Force.			Form.	Amount.					Height of Base. (feet).	Dirce.	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.
1	London (Kew) ...	18	1026.2	+2	S	1	bc	57	97	7	-	-	-	-	1025.8	+2	E	2	bc	59	92	4	-	-	-	-	-	1	78	53	49	-	-	4.0			
	Croydon ...	217	1026.2	+2	S	1	bc	57	97	7	-	-	-	-	1025.9	+2	E	2	bc	58	97	4	-	-	-	-	-	1	78	53	50	-	-	5.8			
	S. Farnborough ...	226	1025.6	-6	ESE	1	bc	61	97	5	-	-	-	-	1025.3	+2	ESE	1	bc	58	97	4	-	-	-	-	-	1	78	53	48	-	-	5.8			
	Boscombe Down ...	417	1025.8	-8	E'N	2	bc	58	97	3	-	-	-	-	1025.3	+2	E	2	bc	58	97	4	-	-	-	-	-	1	74	55	50	-	0.1	3.0			
	Thorney Island ...	10	1025.2	-10	SE	1	bc	58	97	2	-	-	-	-	1024.7	+4	ESE	2	bc	61	97	6	-	-	-	-	-	1	71	54	52	-	-	*			
	Lympe ...	346	1026.0	-6	-	0	bc	59	85	6	-	-	-	-	1025.6	0	E	1	bc	60	97	6	-	-	-	-	-	1	68	50	45	-	-	0.5			
	Manston ...	164	1026.4	-4	-	0	bc	57	97	1	-	-	-	-	1025.8	0	-	0	bc	57	97	1	-	-	-	-	-	1	71	55	50	-	0.3	8.0			
2	Shoeburyness ...	11	1026.4	-4	NE	1	bc	59	97	2	-	-	-	-	1026.3	+2	E	1	bc	58	97	2	-	-	-	-	-	1	70	57	57	-	-	6.6			
	Felixstowe ...	15	1026.3	-4	SE	1	bc	58	97	1	-	-	-	-	1026.0	+2	E	1	bc	58	97	2	-	-	-	-	-	1	70	57	58	-	-	3.7			
	Gorleston ...	5	1026.3	-4	SE	1	bc	58	97	1	-	-	-	-	1025.9	-2	SE	1	bc	58	97	1	-	-	-	-	-	1	64	57	56	-	-	*			
	Mildenhall ...	19	1026.2	-6	SE	2	bc	57	97	5	-	-	-	-	1025.7	+2	SE	2	bc	56	97	6	-	-	-	-	-	1	77	55	51	-	-	9.0			
	Cranwell ...	240	1025.6	-6	S	3	bc	60	92	4	-	-	-	-	1024.8	0	-	0	bc	58	85	4	-	-	-	-	-	1	74	53	48	-	-	10.9			
3	Birmingham ...	535	1025.6	-4	-	0	bc	62	97	4	-	-	-	-	1025.3	0	S	2	bc	60	92	4	-	-	-	-	-	1	74	58	45	-	-	9.0			
	Upper Heyford ...	408	1025.6	-4	-	0	bc	62	97	4	-	-	-	-	1025.4	+2	-	0	bc	57	97	1	-	-	-	-	-	1	75	55	54	-	-	*			
4	Ross-on-Wye ...	223	1025.6	-4	-	0	bc	62	97	4	-	-	-	-	1024.9	-4	E	1	bc	54	97	1	-	-	-	-	-	1	75	53	*	-	-	9.0			
5	Hartland Point ...	299	1023.3	-6	E	1	bc	61	85	8	-	-	-	-	1022.1	-2	ESE	3	bc	59	85	8	-	-	-	-	-	1	67	57	53	-	-	2.3			
	Bristol ...	209	1023.2	-2	-	0	bc	55	97	2	-	-	-	-	1024.8	+2	SE	1	bc	59	97	2	-	-	-	-	-	1	76	55	48	-	-	3.4			
	Portland Bill ...	32	1024.1	-12	E	2	bc	58	92	2	-	-	-	-	1023.3	-4	NE	3	bc	60	92	7	-	-	-	-	-	1	64	58	*	-	-	6.4			
	Plymouth ...	82	1023.9	-10	E	2	bc	58	92	6	-	-	-	-	1023.0	-2	ESE	3	bc	59	97	6	-	-	-	-	-	1	73	56	55	-	-	6.4			
	The Lizard ...	240	1022.7	-8	ENE	5	bc	57	97	1	-	-	-	-	1021.5	-2	ENE	4	bc	58	97	1	-	-	-	-	-	1	61	57	0.3	0.5	0.0	0.0			
	Scilly (St. Mary's) ...	163	1022.0	-8	ESE	4	bc	58	97	1	-	-	-	-	1020.8	0	E	3	bc	59	97	6	-	-	-	-	-	1	62	57	0.1	-	-	0.0			
	Guernsey ...	175	1022.0	-8	ESE	4	bc	58	97	1	-	-	-	-	1020.8	0	E	3	bc	59	97	6	-	-	-	-	-	1	62	57	0.1	-	-	0.0			
6	Pembroke ...	142	1024.2	-6	ENE	3	bc	60	97	8	-	-	-	-	1022.9	-4	ESE	5	bc	61	92	6	-	-	-	-	-	1	67	58	*	-	-	5.9			
7	Holyhead (Valley) ...	26	1024.1	-14	NE	1	bc	55	97	6	-	-	-	-	1023.1	+2	NE	1	bc	57	97	7	-	-	-	-	-	1	64	52	48	-	-	*			
	Chester (Sealand) ...	16	1025.4	-4	-	0	bc	54	97	3	-	-	-	-	1024.3	-4	SE	1	bc	53	97	0	-	-	-	-	-	1	79	52	47	-	-	10.7			
8	Manchester ...	70	1025.5	-6	-	0	bc	50	97	0	-	-	-	-	1024.8	+2	ESE	1	bc	52	97	1	-	-	-	-	-	1	75	49	46	-	-	8.0			
10	Spurn Head ...	29	1025.6	-10	SE	2	bc	59	97	6	-	-	-	-	1024.9	-2	SSW	3	bc	58	97	6	-	-	-	-	-	1	63	57	*	-	-	1.1			
	Catterick ...	175	1025.2	-6	S	2	bc	55	92	4	-	-	-	-	1025.0	+6	-	0	bc	48	97	3	-	-	-	-	-	1	76	47	42	-	-	11.6			
	Tynemouth ...	108	1024.8	-4	W	1	bc	54	92	6	-	-	-	-	1024.6	+6	WSW	2	bc	57	92	4	-	-	-	-	-	1	63	54	47	-	-	*			
11	St. Abbs Head ...	280	1023.4	-4	SSW	3	bc	58	85	7	-	-	-	-	1023.2	+12	-	0	bc	57	85	8	-	-	-	-	-	1	68	52	*	-	-	*			
	Leuchars ...	36	1022.2	-8	WSW	3	bc	56	92	8	-	-	-	-	1022.4	+10	-	0	bc	57	97	6	-	-	-	-	-	1	72	55	50	-	-	11.1			
12	Renfrew (Abbots I.) ...	19	1023.7	-10	-	0	bc	56	97	7	-	-	-	-	1023.5	+6	-	0	bc	58	92	6	-	-	-	-	-	1	69	55	51	-	-	8.9			
	Eskdalemuir ...	794	1024.1	-8	SE	3	bc	56	97	1	-	-	-	-	1024.4	+2	SWW	1	bc	55	97	2	-	-	-	-	-	1	63	51	41	-	-	4.0			
	Point of Ayre ...	30	1024.1	-8	SE	3	bc	56	97	1	-	-	-	-	1023.9	+2	SE	3	bc	59	97	8	-	-	-	-	-	1	68	51	*	-	-	11.3			
13A	Tiree ...	22	1022.0	-4	S	3	bc	57	92	8	-	-	-	-	1022.2	+2	-	0	bc	58	97	7	-	-	-	-	-	1	63	53	*	-	-	3.6			
13B	Stornoway ...	80	1018.7	-2	SSW	6	bc	58	92	7	-	-	-	-	1022.5	+14	N	2	bc	55	92	8	-	-	-	-	-	1	60	54	*	-	-	0.0			
15	Dalwhinnie ...	1176	1018.7	-2	SSW	6	bc	58	92	7	-	-	-	-	1022.5	+14	N	2	bc	55	92	8	-	-	-	-	-	1	60	54	*	-	-	0.0			
	Aberdeen ...	79	1018.7	-2	SSW	6	bc	58	92	7	-	-	-	-	1022.5	+14	N	2	bc	55	92	8	-	-	-	-	-	1	60	54	*	-	-	0.0			
	Wick ...	119	1018.7	-2	SW	3	bc	61	92	9	-	-	-	-	1021.6	+32	NW	3	bc	55	97	6	-	-	-	-	-	1	71	54	53	-	-	8.9			
16	Sumburgh ...	30	1015.6	-8	SW	5	bc	55	97	6	-	-	-	-	1019.4	+30	W	4	bc	52	97	7</															

## LONDON OBSERVATIONS



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Friday 5th September 1941.  
No. 29,142.

OBSERVATIONS at 13h. G.M.T. 4th September														OBSERVATIONS at 18h. G.M.T. 4th September														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. (20)	Temp. °F. (21)	Humid. % (22)	Visibility. 0-9 (23)	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 (25)			Total 0-10 (26)	Height of Base (feet) (28)	7h.—18h. 4th (37)	18h.—18h. 4th (38)	18h.—18h. 5th (39)	1h.—7h. 5th (40)																																																																																									
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympe ... Manston ...	1023.8 1023.8 1023.7 1023.4 1023.8 1024.2 1024.9	-12 -10 -10 -10 -6 -6 -6	E SE ESE SE's SE -	2 2 4 2 2 2 0	Z bc Z Z Z Z Z	75 77 77 76 76 74 72	65 65 65 65 65 65 85	6 7 7 7 6 6 6	8 2 2 1 1 1 1	- - - - - 1 1	78 4.6 4.6 2.3 4.6 2.3 0	78 4.6 4.6 4.6 4.6 4.6 1	4000 2500 3500 1200 2500 4000 4000	1022.3 1022.1 1021.5 1021.9 1021.5 1022.4 1023.0	-4 -2 -6 -2 -8 -6 -6	E'N E - SSE E's NE NE/E	2 1 0 2 2 1 1	F bc Z Z b Z F	71 70 74 71 71 67 60	75 85 75 65 75 75 97	6 7 7 7 7 6 1	4 - - - - 2 4	9 4 0 0 0 9 4	2.3 2.3 Tr Tr Tr 9 4.6	4.6 - - - - - -	5700 - - - - - -	1 0 0 0 0 0 0	*	*	*	*	*	*	*	*	bmo, w, bc, z cm, z, bc b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm ofec, b, m	bc, z bc, cm bc, cm bc, cm bc, cm bc, cm bc, cm b, bc, cm	b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm	b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm	b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm b, bc, cm	b, bc, cm b, bc, cm 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Abridged observations of additional stations in the AVIATION WEATHER CODE											
13h. G.M.T. 4th September				18h. G.M.T.				01h. G.M.T. 5th September			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>
109	77	02844	30324	73	01943	02214	5-	02867	09227	57	61945
115	54	02934	08266	52	81834	10427	52	02834	08487	52	02844
203	5-	61838	04328	5-	02837	08327	5-	02947	24227		
206	57	22963	08367	57	02862	08328	5-	03858	07128	5-	03738
210	57	02965	06327	5-	22878	06368	5-	52648	08358	5-	02867
220				52	02845	14218				57	02853
230	8-	02857	00027	74	05751	20214	5-	02756	10126	56	01753
245	8-	02865	06415	5-	02767	04427	52	02736	04268	5-	51628
260	73	01764	29114	86	02865	03216	5-	05627	04327	5-	05528
279	5-	02747	12357	00	01890	09213	00	00790	14201	8-	25765
285	70	01755	30125	20	01851	32114	03	05690	04412	50	05561
285	5-	02857	30227	23	01744	08415				5-	45137
288	7-	05657	05127	00	01790	07113	50	45264	03144	--	44305
301	10	05661	26201	00	01752	10214	00	05690	08200	5-	08428
321	10	05664	00044	50	05661	04326	5-	05555	30225	--	48109
299	50	05553	28243	50	05554	28214	--	48009	04249	--	57009
292	13	00763	00003	41	02765	12127	5-	02758	10158	5-	02638
310	--	03636	2646	--	01644	26414				--	46109
314	20	01763	18114	00	05690	00027	00	45309	00019	--	48109
333	1-	01861	18203	5-	01853	24114	00	05690	00010	03	05690
334	--	01773	27214	--	01773	24204				--	08309
340	10	01764	14204	10	05671	08115	03	08490	08214	--	44309
336	50	05665	20115	00	02690	08215	00	08490	06113	--	46109
336	54	01762	16214	54	01752	12314				54	05543
350	10	05662	22213	47	05662	09214	00	47390	04100	--	43109
368	10	05653	08343	40	00861	09101				00	08490
379	20	01754	12344	0-	05690	12313	00	08490	08100	00	08490
390	1-	01654	12104	00	01790	14214	--	46109	00049	--	46109
382	10	05654	11214	70	05664	00014	00	04590	00000	--	48109
438	50	05661	04201							50	02665
430	20	05661	08313	00	00790	10201	00	05690	02100	00	05590
409	00	00790	13501	00	05790	11500	03	05690	10302	53	02626

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 5th September
1 S.E. England	Light east wind and veering southwest. Fair but cloudy periods; local fog early morning; rather warm.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light or moderate southwest wind; much low cloud, but some breaks inland during day. Perhaps local drizzle; local coast and hill fog; close
6 South Wales ...	
7 North Wales ...	
8 N.W. England	As 0-4
9 N. Midlands ...	
10 N.E. England	Light east wind; cloudy but some breaks inland during day. Local coast fog; average temperature.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light southeast or east wind. Fair; cloud increasing later; warm.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	As 10-11
16 Orkneys and Shetlands	
17 N. W. Ireland	Light southeast wind, veering later. Cloud increasing, perhaps slight rain later; warm.
18 N. E. Ireland	
19 S. E. Ireland	Light or moderate southwest wind. Cloudy; local drizzle; close.
20 S. W. Ireland	



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

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

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

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

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

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

**GENERAL INFERENCE.**

The anticyclone off North Scotland is giving way and a small new anticyclone has formed off Southwest Spain. There is a deep depression in the West Atlantic and a shallow depression off Valentia, with a trough to Southwest England is moving northeast, but is not causing any rain. Drizzle may occur in the Southwest but weather will be fair in most areas, with variable cloud.

**FURTHER OUTLOOK.**

Unsettled in the West, doubtful in the East, but probably mainly fair.

Forecasts issued at 1030 G.M.T.

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

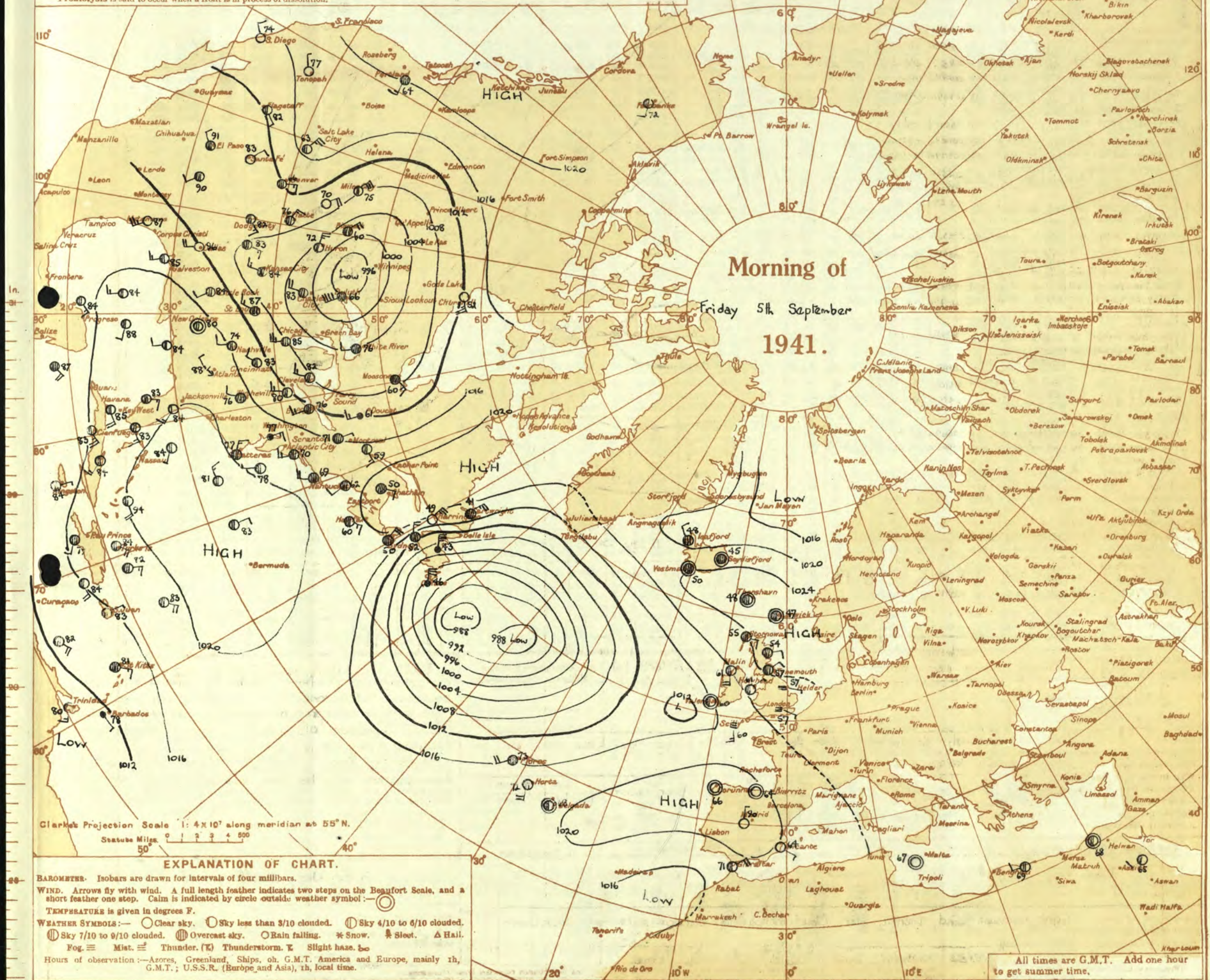
H.M.S.O. Press, Meteorological Office, Dunstable.



# 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

Friday 5th September 1941.

No. 29,142.

OBSERVATIONS at 1 hr. G.M.T. 5th September															OBSERVATIONS at 7 hr. G.M.T. 5th September													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)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
					Direc.	Force.					Low.	Med.	High.	Low 0-10.	Total 0-10.			Height of Base (feet) (14)	Direc.					Force.	Low.	Med.	High.	Low 0-10.			Total 0-10.	Height of Base (feet) (28)	Max. Day 7h-13h °F. (31)	Min. Night 13h-7h °F. (32)	Min. on Grass °F. (33)		Day 7h-13h mm. (34)	Night 13h-7h mm. (35)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION  
Saturday 6th September 1941.  
No. 29,143.

OBSERVATIONS at 13h. G.M.T. 5th September.														OBSERVATIONS at 18h. G.M.T. 5th September.														PAST 24 HOURS.											
Dissect.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visib. 0-9	Cloud.					Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visib. 0-9	Cloud.					Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visib. 0-9	WEATHER.			
				Dir.	Force.					Form.	Amount.	Height of Base (feet)	Dir.	Force.			Form.	Amount.					Height of Base (feet)	Dir.	Force.	Form.	Amount.			Height of Base (feet)	7h.—13h. 5th					13h.—18h. 5th	18h.—5th 6th	5th—7h. 6th	
1	London (Kew)...	1018.3	-10	NHE	2	20	67	75	5	-	-	-	-	1016.9	-4	E	2	20	67	75	5	5	3	6	2-3	9	4000	1	*	qfmo lobz	bbcz	cmw	cmw	qfmo lobz	bbcz	cmw	cmw		
	Croydon ...	1018.3	-10	NE	2	20	69	85	5	-	-	1	2000	1017.2	-2	NE	1	20	67	85	5	5	3	2	1	7-8	4000	0	*	ofcom	bmbcm	cmw	cmw	ofcom	bmbcm	cmw	cmw		
	S. Farnborough	1017.5	-10	E/H	2	20	71	75	6	-	3	0	4-6	1016.5	-6	E/H	1	20	71	75	5	2	3	6	Tr	9	3000	1	*	ofmbcm	bccz	cmw	cmw	ofmbcm	bccz	cmw	cmw		
	Boscombe Down	1017.0	-10	SE	3	20	71	75	6	-	3	7	0	10	1016.7	-2	SE/S	2	20	67	85	5	5	7	6	4-6	9	5000	0	*	ffmbcm	bccz	cmw	cmw	ffmbcm	bccz	cmw	cmw	
	Thorney Island	1017.0	-8	SE/E	3	20	71	75	6	-	3	0	4-6	1017.0	-2	SE/S	2	20	65	85	5	5	7	6	4-6	9	5000	0	*	cmw	bcm	cmw	cmw	cmw	bcm	cmw	cmw		
	Lymington	1018.6	-10	SE	2	20	72	75	5	2	-	6	2-3	1017.6	-4	NE	1	20	67	85	5	5	-	-	0	7-8	1	\$2	ofbcom	bccz	cmw	cmw	ofbcom	bccz	cmw	cmw			
	Manston	1018.4	-4	NE	2	20	68	85	5	-	6	0	7-8	1017.6	-2	NHE	1	20	62	97	4	5	-	2	9	10	2150	0	*	bmc	cbcm	cmw	cmw	bmc	cbcm	cmw	cmw		
2	Shoeburyness ...	1018.8	-8	EHE	3	20	67	85	6	5	4	2	Tr	1018.0	-2	EHE	3	20	61	92	5	5	-	-	7-8	7-8	800	0	*	fbcm	bccz	cmw	cmw	fbcm	bccz	cmw	cmw		
	Felixstowe ...	1018.7	-2	EHE	3	20	63	85	6	5	-	10	10	1017.7	-4	E/H	3	20	61	92	5	5	-	-	10	10	500	0	2	cifcm	bmbcm	cmw	cmw	cifcm	bmbcm	cmw	cmw		
	Gorleston ...	1020.1	-10	NE/E	2	20	63	85	6	5	-	10	10	1018.0	0	N/E	1	20	62	92	6	5	-	-	10	10	1100	0	2	ccz	cmw	cmw	cmw	ccz	cmw	cmw	cmw		
	Mildenhall ...	1019.1	-10	E/S	2	20	66	85	6	5	-	9	9	1017.5	-6	E/H	3	20	66	92	6	5	-	-	10	10	200	0	*	ofcm	cbcm	cmw	cmw	ofcm	cbcm	cmw	cmw		
	Cranwell ...	1020.3	-10	EHE	2	20	59	92	6	5	-	10	10	1018.0	-4	EHE	2	20	59	92	3	5	-	-	10	10	200	0	*	offcm	cmw	cmw	cmw	offcm	cmw	cmw	cmw		
3	Birmingham	1018.4	-10	EHE	3	20	66	75	6	5	-	4-6	4-6	1017.8	-4	EHE	3	20	61	92	6	5	-	-	10	10	1500	1	*	ccz	bccz	cmw	cmw	ccz	bccz	cmw	cmw		
	Upper Heyford	1017.9	-12	EHE	3	20	63	85	5	1	-	7-8	9	1017.2	-8	EHE	2	20	65	85	6	5	7	1	4-6	7-8	3000	1	*	cmw	cmw	cmw	cmw	cmw	cmw	cmw	cmw		
4	Ross-on-Wye ...	1017.4	-12	E/H	3	20	70	75	6	-	5	0	7-8	1016.0	-10	E/H	2	20	69	85	5	3	3	3	9	10	2500	1	*	bccz	bccz	cmw	cmw	bccz	bccz	cmw	cmw		
5	Hartland Point	1017.3	+6	WSW	2	20	63	92	7	3	7	0	7-8	1016.7	0	WSW	3	20	61	92	7	5	2	-	7-8	9	800	0	3	bccz	cmw	cmw	cmw	bccz	cmw	cmw	cmw		
	Bristol ...	1017.6	-10	ESE	2	20	73	75	6	-	8	6	0	7-8	1016.5	0	SW	2	20	70	75	6	5	2	-	7-8	10	4000	1	*	cmw	cmw	cmw	cmw	cmw	cmw	cmw	cmw	
	Portland Bill ...	1017.4	0	E	3	20	62	92	5	5	7	-	7-8	1017.1	-2	NW	2	20	62	92	5	5	7	-	7-8	10	2500	1	3	ccz	cmw	cmw	cmw	ccz	cmw	cmw	cmw		
	Plymouth ...	1018.2	+2	SW	2	20	64	85	6	8	7	2	4-6	1017.6	-2	WSW	1	20	63	85	6	5	7	-	7-8	7-8	700	0	2	bcm	cmw	cmw	cmw	bcm	cmw	cmw	cmw		
	The Lizard ...	1017.5	0	S	2	20	64	85	4	5	2	-	7-8	1017.6	0	SW	1	20	62	92	3	8	-	-	7-8	7-8	2000	0	3	cm	cmw	cmw	cmw	cm	cmw	cmw	cmw		
	Scilly (St. Mary's)	1017.5	+8	SW/W	3	20	66	75	7	8	4	2	2-3	1017.1	-2	SW/S	2	20	63	92	8	8	6	3	4-6	4-6	1500	0	3	ccz	cmw	cmw	cmw	ccz	cmw	cmw	cmw		
	Guernsey ...	1017.1	-4	SSE	3	20	63	92	6	8	7	-	4-6	1016.0	0	SSW	3	20	61	97	6	5	-	-	9	9	600	0	3	cmw	cmw	cmw	cmw	cmw	cmw	cmw	cmw		
6	Pembroke ...	1016.1	-10	EHE	2	20	78	85	6	2	8	2	1	4-6	1015.7	+2	SW	3	20	63	85	6	2	8	-	7-8	9	1500	0	1	mabbcm	bccz	cmw	cmw	mabbcm	bccz	cmw	cmw	
7	Holyhead (Valley)	1017.5	-22	E	3	20	71	65	5	5	-	-	2-3	1017.1	+2	SE	2	20	63	85	5	-	5	-	0	4-6	-	0	*	offmbcm	bccz	cmw	cmw	offmbcm	bccz	cmw	cmw		
8	Chester (Sealand)	1019.1	-12	NE	3	20	65	75	6	5	-	-	1	1	1018.1	-2	EHE	3	20	62	75	5	-	4	-	0	Tr	-	0	*	ccz	bccz	cmw	cmw	ccz	bccz	cmw	cmw	
10	Spurn Head ...	1020.3	-22	E/H	3	20	58	97	3	5	-	10	10	1019.7	-2	E/H	3	20	58	97	4	5	-	-	10	10	220	1	2	off	cmw	cmw	cmw	off	cmw	cmw	cmw		
	Catterick ...	1021.4	-10	-	0	20	60	85	6	5	-	-	10	10	1020.2	0	SSE	3	20	59	85	6	5	-	-	10	10	1200	0	*	offcm	cmw	cmw	cmw	offcm	cmw	cmw	cmw	
	Tynemouth ...	1022.6	-6	SE	3	20	57	85	7	5	-	-	9	9	1021.6	-6	SSE	2	20	56	92	6	5	-	-	9	9	1800	0	2	ccz	cmw	cmw	cmw	ccz	cmw	cmw	cmw	
11	St. Abbs Head	1020.5	-16	SE	3	20	58	85	8	4	4	-	4-6	1018.8	-4	SE	4	20	55	92	8	4	4	-	2-3	2-3	2500	1	2	fmbcm	cmw	cmw	cmw	fmbcm	cmw	cmw	cmw		
	Leuchars ...	1021.3	-10	E	3	20	59	92	6	5	-	-	10	10	1019.6	-14	E	2	20	56	92	7	5	7	-	9	10	500	0	*	cmw	cmw	cmw	cmw	cmw	cmw	cmw	cmw	
12	Renfrew (Abbots L.)	1020.2	-16	E/H	2	20	67	75	6	5	-	-	Tr	1018.9	-2	NE	2	20	66	85	6	3	-	-	9	9	2500	0	*	cmw	cmw	cmw	cmw	cmw	cmw	cmw	cmw		
	Esdailemuir ...	1019.2	-12	ESE	1	20	67	65	8	1	8	-	Tr	1018.1	-4	NE/H	2	20	64	75	6	-	-	-	0	0	-	0	0	*	bcm	cmw	cmw	cmw	bcm	cmw	cmw	cmw	
	Point of Ayre ...	1018.0	-4	E	2	20	65	85	6	-	-	5	0	1	1017.3	-10	E	2	20	62	92	6	5	-	-	2-3	2-3	4000	0	2	cbcm	bccz	cmw	cmw	cbcm	bccz	cmw	cmw	
13A	Tiree ...	1020.3	-6	SE/S	2	20	68	75	7	-	-	0	0	-	1019.5	-2	EHE	1	20	62	92	7	-	-	0	0	-	0	0	2	bcb	b	b	b	bcb	b	b	bcb	
13B	Stornoway ...	1020.4	-4	ESE	2	20	60	85	5	7	-	4-6	9	1019.5	-4	-	0	20	59	85	8	5	7	-	7-8	9	3500	1	1	ccz	cmw	cmw	cmw	ccz	cmw	cmw	cmw		
15	Dalwhinnie ...	1020.0	-12	SSW	3	20	66	75	7	1	-	-	1	1	1018.9	-6	S	1	20	63	85	7	8	-	2	4-6	7-8	4000	0	*	ccz	cmw	cmw	cmw	ccz	cmw	cmw	cmw	
	Aberdeen ...	1021.5	-12	SSE	3	20	56	97	6	5	-	-	10	10	1019.8	-12	S	3	20	55	97	6	5	-	-	10	10	400	1	2	ccz	cmw	cmw	cmw	ccz	cmw	cmw	cmw	
	Wick ...	1021.0	-14	ESE	3	20	57	97	6	5	-	-	9	9	1019.7	-10	SE	2	20	55	97	6	5	3	-	4-6	10	400	1	5	ccz	cmw	cmw	cmw	ccz	cmw	cmw	cmw	
16	Sumburgh ...	1023.3	-8	EHE	2	20	55	85	9	5	-	-	7-8	1021.5	-8	E/H	2	20																					

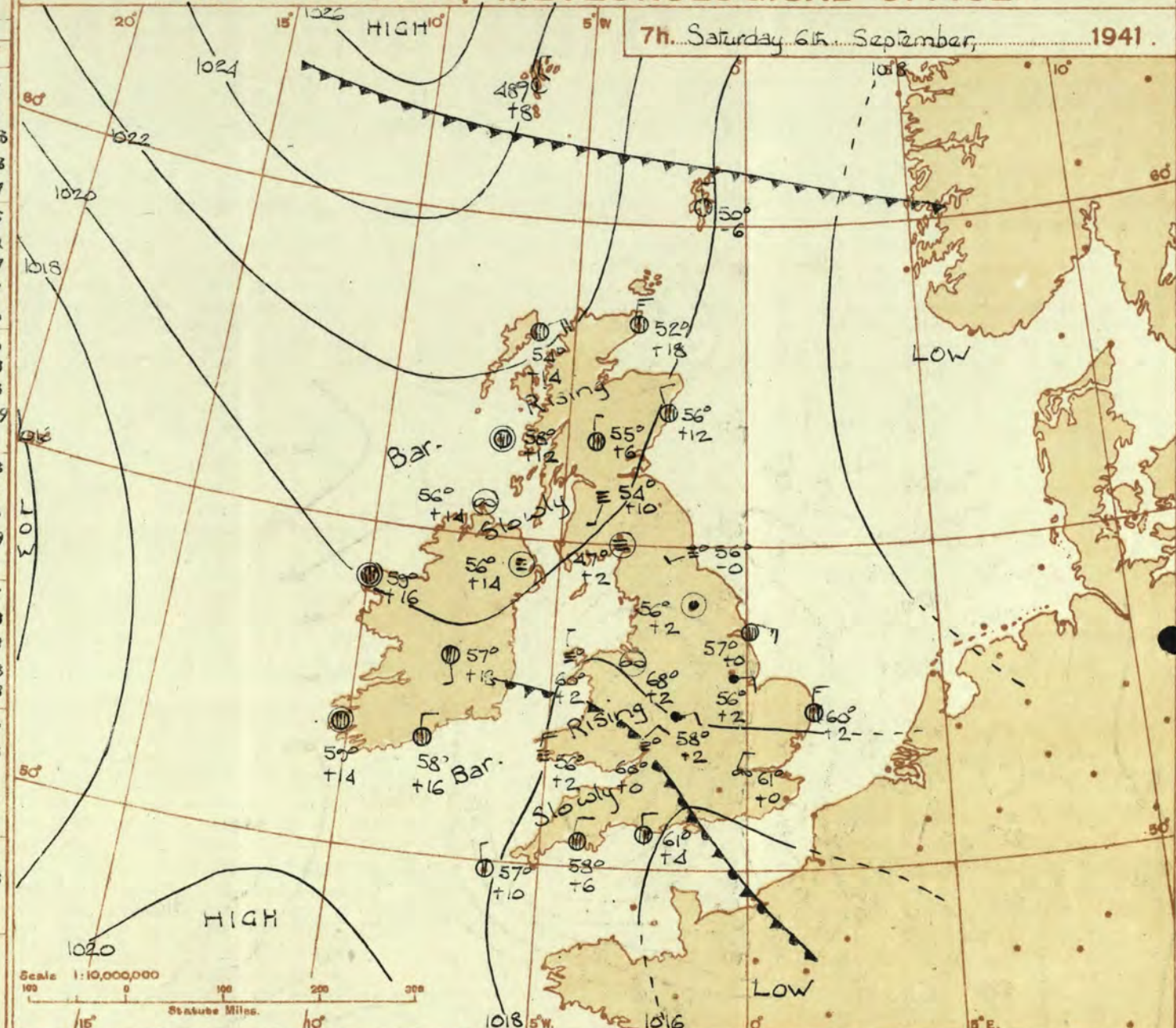


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 5th Sept. 18h. G.M.T.				01h. G.M.T. 6th Sept. 07h. G.M.T.					
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	5	03838	10428	5	02418	10358	--	57309	05359
115	54	02844	12127	55	09234	12127	--	46109	08149
203	5	03838	04328	5	02838	04328	55	02844	04228
206	7	01865	08325	57	02965	08127	53	01642	00023
210	53	01861	01213	3	02867	31117	03	00690	20124
220	73	01653	13224	00	05790	29100		53	01844
230	10	05761	22101	10	05761	20101	00	05790	00000
245	5	51638	13358	5	05728	16258	--	48209	24229
260	10	00761	03111	50	05653	10103	--	48209	00049
278	5	02763	12313	5	02666	26126	00	05590	00000
279	00	05590	05400	50	05671	05401	00	05590	04200
285	5	05637	14227	5	05538	10428		5	05543
288				5	52638	06258	5	52648	06158
575	10	05543	10223	10	05541	0831	00	05590	00000
301	08	05590	10301	00	05690	06400	5	08448	09218
321	5	05638	01228	5	05628	06158	5	57328	06158
299	--	57000	08350	--	46209	08358	5	52538	08258
292	5	05628	06158	5	52418	08158	5	05618	04158
310	--	44200	04449	--	46209	04449	--	57109	08249
614	--	46109	04359	5	51628	06358	--	57109	06159
333	5	01765	06215	07	05690	02117	5	62528	00068
334	--	01790	24102	--	05545	20216	--	51547	20128
340	50	05651	10412	53	17546	43427	5	51428	08128
136	5	05528	10248	5	05538	08128	5	05648	06228
336	50	01762	04314	51	45653	12328		52	52644
350	5	03538	04348	07	05690	02125	5	62438	04268
368				5	05678	26268		5	61548
379	24	05661	08342	00	05590	06226	--	67109	02169
390	10	05654	06244	58	05673	09117	5	08428	06228
382	50	05645	04228	03	05690	04126		5	08425
436	57	01763	06214					--	46009
430	08	05690	14314	08	05690	12126	07	22590	20168
409	57	21624	17357	87	02744	21226	57	02634	00026

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C<sub>M</sub> = Form of low and medium cloud—See page 1.  
V = Visibility—See page 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 Sept. 1941.

1 S.E. England	Light E.-N.E. winds; mainly dull with some local light rain or drizzle; perhaps brighter intervals tomorrow; rather misty night and morning with chance of local coast fog; cool.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light N.-N.E. wind; mainly cloudy; local light rain or drizzle; rather cool.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Light N.E. wind; fair; average temperature.
9 N. Midlands ...	As 1-4.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light to moderate N.E. to E. wind; mainly fine; average day temperature, cool at night.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland.	Moderate northerly winds; bright periods; a short period of light rain or showers; becoming very cool.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	As 12-13.B.
19 S. E. Ireland	
20 S. W. Ireland	As 5-7

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—  
 = Warm Front on the Surface  
 = Cold Front on the Surface  
 = Warm Front above the ground  
 = Cold Front above the ground  
 = Lines of Frontogenesis  
 = Occluded Front (or Occlusion)  
 = Warm Occlusion  
 = Cold Occlusion  
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 depression over North France and the English Channel is drifting E.S.E. & filling up. An intense anticyclone to the northward of the British Isles is spreading south. Weather will be mainly fine in the North and Northwest. Elsewhere there will be considerable cloud with some local light rain or drizzle at first but some brighter intervals are likely tomorrow.

FURTHER OUTLOOK.

Mainly dry generally, but considerable cloud at times in the East and South.

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

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

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

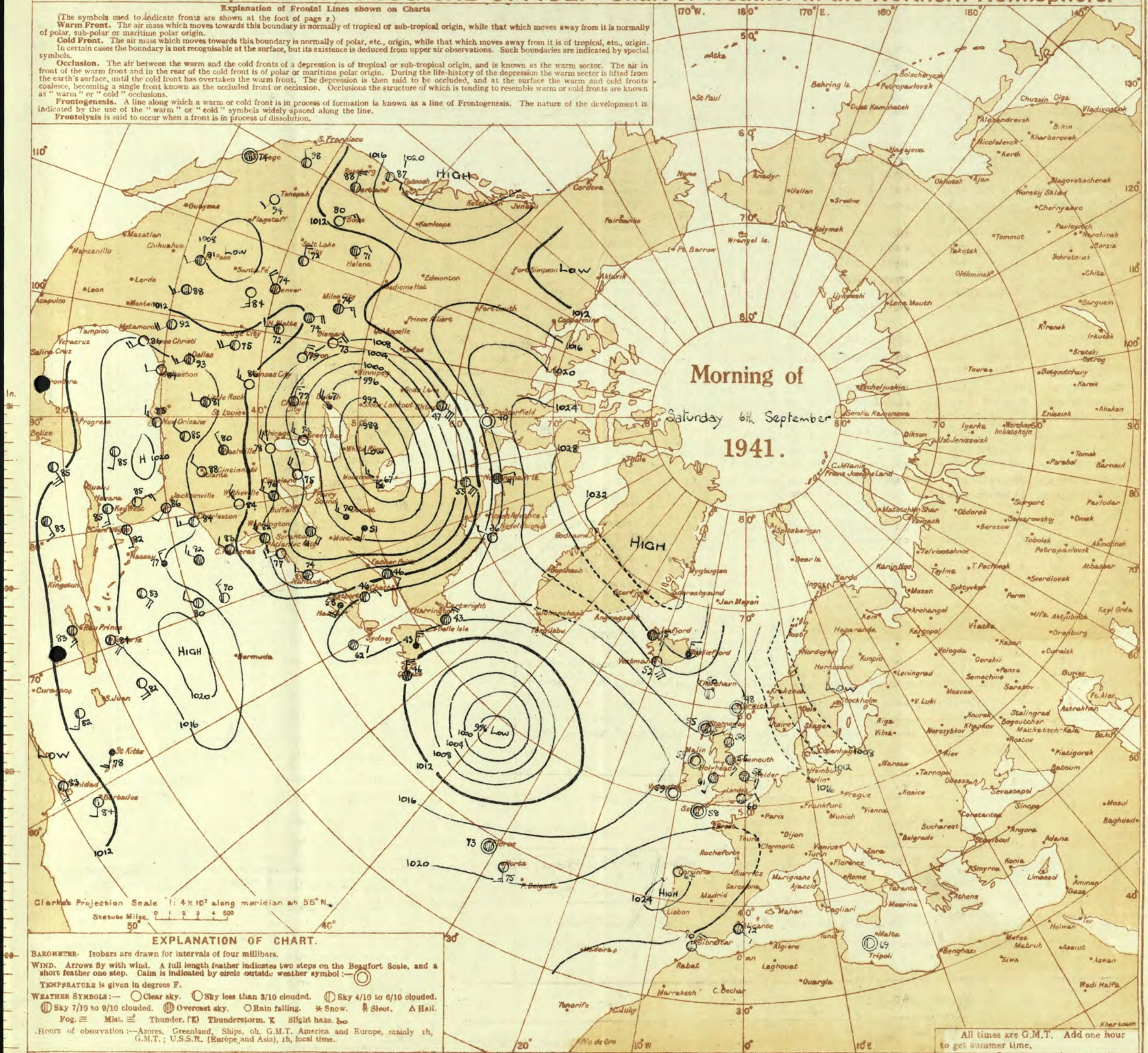
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# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)  
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.  
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.  
 In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.  
**Occlusion.** The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, forming 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 September 1941

No. 29143

[illegible][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.

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

METEGROLOGICAL 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  
Sunday 7th September 1941.  
No. 23144

OBSERVATIONS at 13h. G.M.T. 6th September														OBSERVATIONS at 18h. G.M.T. 6th September														PAST 24 HOURS.						
STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	°C.	Humid. %	Visib. 0-12	Cloud.				Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	°C.	Humid. %	Visib. 0-12	Cloud.				State of Ground.	Sea.	WEATHER.					
			Dir.	Force.						Form.	Amount.	Height of Base. (feet)	Dir.			Force.	Form.						Amount.	Height of Base. (feet)	7h.—13h. 6th	13h.—18h. 6th			18h.—6th 7th	1h.—7h. 7th				
1 London (Kew)...	1017.9	+6	NE	N	2	65	75	6	5	-	10	10	1500	1019.1	+4	NNE	3	2	62	85	6	5	-	10	10	1500	1	*	cm.	cm.	cm.	cm.		
Croydon ...	1017.9	+6	NE	3	2	63	85	6	5	-	7-8	10	1200	1018.7	+10	N	4	2	61	85	5	5	-	9+	9+	900	0	*	d.d.cm.	cm.	cm.	cm.		
S. Farnborough	1017.6	+6	NE	3	2	65	85	5	5	2	-	7-8	10	1019.1	+10	NNE	3	2	62	85	6	5	2	-	9	10	1600	1	*	ommmcm.	cdm.	cm.	cm.	
Boscombe Down	1018.2	+8	NE	3	2	64	85	6	5	-	10	10	2000	1019.1	+10	NNE	3	2	60	85	6	5	-	9+	9+	2000	1	*	airfcm.	cm.	cm.	cm.		
Thorney Island	1017.1	+6	ENE	2	2	63	92	5	5	-	10	10	800	1018.0	+6	NNE	2	2	64	92	6	5	-	10	10	1500	1	*	Rmid.cm.	om.	om.	om.		
Lympne ...	1017.8	+2	N	2	2	62	92	6	5	-	10	10	500	1018.6	+8	NNE	3	2	60	85	6	5	-	9+	9+	800	0	*	cm.	cm.	cm.	cm.		
Manston ...	1017.6	+6	NE	2	2	60	97	6	5	-	10	10	400	1018.3	+6	NNE	3	2	60	92	6	5	3	-	9	9+	800	0	*	amd.d.cm.	cm.	cm.	cm.	
2 Shoeburyness ...	1018.2	+4	NE	3	0	62	92	6	5	-	10	10	800	1019.0	+10	NNE	3	0	61	85	5	5	-	10	10	1500	1	*	old.f.	m.o	om.	cb		
Felixstowe ...	1018.2	+6	ENE	3	0	63	85	7	5	-	10	10	2000	1018.9	+8	NNE	2	0	60	75	7	5	-	10	10	1800	1	1	cidm.	om.	om.	cb		
Gorleston ...	1019.1	+6	NNE	3	0	61	85	7	5	-	10	10	1200	1019.8	+8	NW	2	0	59	75	7	5	-	10	10	2500	0	3	c	om.	om.	bbc		
Mildenhall ...	1018.8	+10	NNE	3	0	61	92	6	5	-	10	10	1400	1020.0	+4	NE	3	0	59	92	7	5	-	9+	9+	1700	0	*	om.	om.	c	cb		
Cranwell ...	1020.2	-10	ENE	2	id.	58	92	6	5	-	7-8	10	700	1020.8	+10	NE	3	0	53	85	7	5	-	9+	9+	2000	1	*	omd.c.	id.	om.	bm.		
3 Birmingham	1019.7	+8	NE	2	0	59	92	6	6	-	10	10	450	1020.5	+10	NE	2	0	60	85	6	6	2	-	9+	10	800	1	*	id.	o	o	o	
Upper Heyford	1019.0	+10	E	3	id.	60	97	5	5	2	-	7-8	10	900	1020.3	+14	NE	3	id.	58	85	6	5	2	-	9	10	800	1	*	omid.c.	id.	om.	om.
4 Rose-on-Wye ...	1018.6	+10	NE	E	3	62	85	5	5	-	10	10	800	1020.0	+8	ENE	2	id.	60	92	5	5	-	10	10	800	1	*	omid.cm.	om.	om.	cm.		
5 Hartland Point	1018.7	+8	N	3	0	61	97	7	5	-	9+	9+	1000	1019.4	+8	ENE	3	0	61	97	6	5	2	-	7-8	9+	1000	0	1	c	c	c	c	
Bristol ...	1018.8	+10	ENE	2	0	61	92	5	5	-	10	10	1100	1019.3	+10	NE	2	0	61	92	5	5	-	10	10	900	1	*	cd.d.cm.	cd.d.cm.	cm.	cm.		
Portland Bill ...	1018.0	+8	N	2	rr	60	92	7	5	-	10	10	2500	1019.1	+8	NE	2	0	63	92	6	5	-	10	10	1500	1	3	orr	p	c	cm.		
Plymouth ...	1019.0	+10	NNW	4	0	65	85	7	5	2	-	4-6	10	2500	1019.3	+4	NNE	3	0	64	85	6	5	-	10	10	1600	0	3	bcc	cd.	cm.	cm.	
The Lizard ...	1018.9	+8	NNW	4	0	65	75	8	8	6	-	7-8	9+	1500	1018.9	0	N	4	0	61	92	8	8	-	7-8	7-8	1400	0	3	bcc	c	cm.	cm.	
Scilly (St. Mary's)	1019.3	+8	NNE	3	bc	64	92	8	8	4	-	4-6	4-6	1500	1020.8	+6	N	3	bc	61	92	8	5	4	-	4-6	4-6	1500	0	1	ifbb	bc	bc	c
Guernsey ...	1019.3	+8	NNE	3	bc	64	92	8	8	4	-	4-6	4-6	1500	1020.8	+6	N	3	bc	61	92	8	5	4	-	4-6	4-6	1500	0	1	ifbb	bc	bc	c
6 Pembroke ...	1019.8	+2	NE	N	3	63	92	7	2	4	-	4-6	7-8	2500	1021.5	+10	NE	4	bc	67	85	6	2	-	4-6	4-6	2500	0	3	bccm.	bcm.	bcm.	bcm.	
7 Holyhead (Valley)	1019.5	-2	NE	3	0	67	65	6	1	-	1	1	2500	1020.8	+8	NNE	2	0	63	75	6	-	-	0	0	-	0	1	cbcm.	bm.	bm.	cm.		
Chester (Sealand)	1019.8	+2	NNW	1	0	61	85	5	5	-	10	10	1500	1021.1	+8	NNW	3	0	61	92	6	5	-	7-8	7-8	2000	0	*	cm.	cm.	cm.	cm.		
8 Manchester ...	1019.8	+2	ENE	2	0	64	75	5	5	3	-	7-8	9	3500	1021.0	+6	NE	3	0	65	75	6	-	1	0	Tr	-	0	om.	cm.	zab.	cm.		
10 Spurn Head ...	1020.1	+2	E	3	b	60	75	7	-	-	0	0	-	1020.2	0	NE	4	cyf	58	85	6	5	-	10	10	4000	0	3	ob	bo	bc	c		
Catterick ...	1020.6	+2	ENE	2	bc	65	65	6	5	-	4-6	4-6	2500	1023.2	+6	NE	2	0	57	85	6	5	7	1	4-6	7-8	1500	0	*	cm.	cm.	cm.	cm.	
Tynemouth ...	1021.1	+12	NNE	3	0	57	92	6	5	-	10	10	1600	1023.3	+10	N	4	0	55	92	8	2	3	-	2-3	7-8	1800	0	3	obcm.	om.	cm.	e	
11 St. Abbs Head	1020.5	+4	N	2	0	54	97	8	5	5	-	7-8	9+	2000	1023.8	+8	N	2	0	53	85	5	5	7	-	4-6	3	2500	0	1	fmc	cm.	c	c
Leuchars ...	1022.1	+10	E	3	0	58	92	7	5	2	-	3	10	1200	1024.2	+18	E	3	0	55	85	8	5	7	-	7-8	9+	2900	0	*	cm.	cm.	c	c
12 Beaufort (Abbots L.)	1020.6	+2	E	2	m	63	65	4	5	-	9+	9+	1000	1023.2	+22	ENE	3	0	59	75	7	5	-	9+	9+	3000	0	*	ofcm	cm.	c	c		
Eske Dalemuir ...	1020.3	+10	NE	E	3	65	85	7	1	3	4	1	2-3	4000	1023.6	+26	NNE	3	0	54	85	7	5	-	10	10	4000	0	*	Felc	bc.	c	c	
Point of Ayre ...	1020.5	0	NW	3	0	65	75	6	-	4	0	1	-	1021.3	+2	-	0	0	62	92	6	5	-	4-6	4-6	2500	0	0	cbz	cbz	cbz	cbz		
13A Tiree ...	1022.0	+6	NE	2	b	62	75	8	-	-	0	0	-	1023.2	+4	N	3	0	58	85	8	-	-	5	0	1	-	0	3	b	b	b	b	
13B Stornoway ...	1024.4	+10	NE	4	bc	57	75	8	1	3	-	2-3	4-6	2500	1025.3	+6	NE	5	0	54	85	8	5	2	2-3	7-8	2500	1	2	c	c	bcc	c	
15 Dalwhinnie ...	1022.5	+10	NNE	3	0	54	85	7	5	-	9+	9+	1500	1023.3	+10	NE	2	0	52	75	8	5	-	9+	9+	2500	0	*	c	c	c	c		
Aberdeen ...	1022.5	+18	NW	4	0	57	65	8	7	-	8	7-8	7-8	2200	1024.3	+10	NW	2	0	55	75	8	8	4	9	4-6	7-8	2500	1	2	ocjpc	cbz	aprbcc	bcc
Wick ...	1023.4	+10	NW	3	0	57	85	9	2	3	5	7-8	9	2500	1025.1	+2	NE	3	0	53	85	5	3	8	4-6	7-8	2500	0	*	bccv	aprbcc	pr	bc	
16 Sumburgh ...	1022.2	+16	NNE	4	bc	55	75	9	8	-	1	4-6	4-6	3000	1024.1	+10	NNE	3	bcjp	52	75	9	8	3	-	4-6	4-6	2100	1	*	c	pr	bc	bc
17 Blackhead Point...	1021.7	+10	-	0	b	60	85	6	-	-	0	0	-	1021.3	+4	WSW	2	0	62	92	6	-	-	0	0	-	0	2	b	b	f	f		
18 Malin Head ...	1021.2	+6	N	2	0	63	85	5	-	-	0	0	-	1022.9	+12	NE	1	bc	69	85	7	-	-	2	0	2-3	-	0	1	z.	bc	bcc	c	
Aldergrove ...	1020.9	-2	SSW	1	0	70	85	5	5	-	2-3	2-3	3000	1021.9	+4	NNE	1	bc	68	85	7	5	-	Tr	4-6	3000	0	*	FF, cm.	bc.	bc.	bc.		
19 Birr Castle ...	1021.4	+10	SSE	1	0	67	85	8	4	-	5	4-6	5	2500	1021.7	+2	SSE	1	0	65	85	8	-	-										

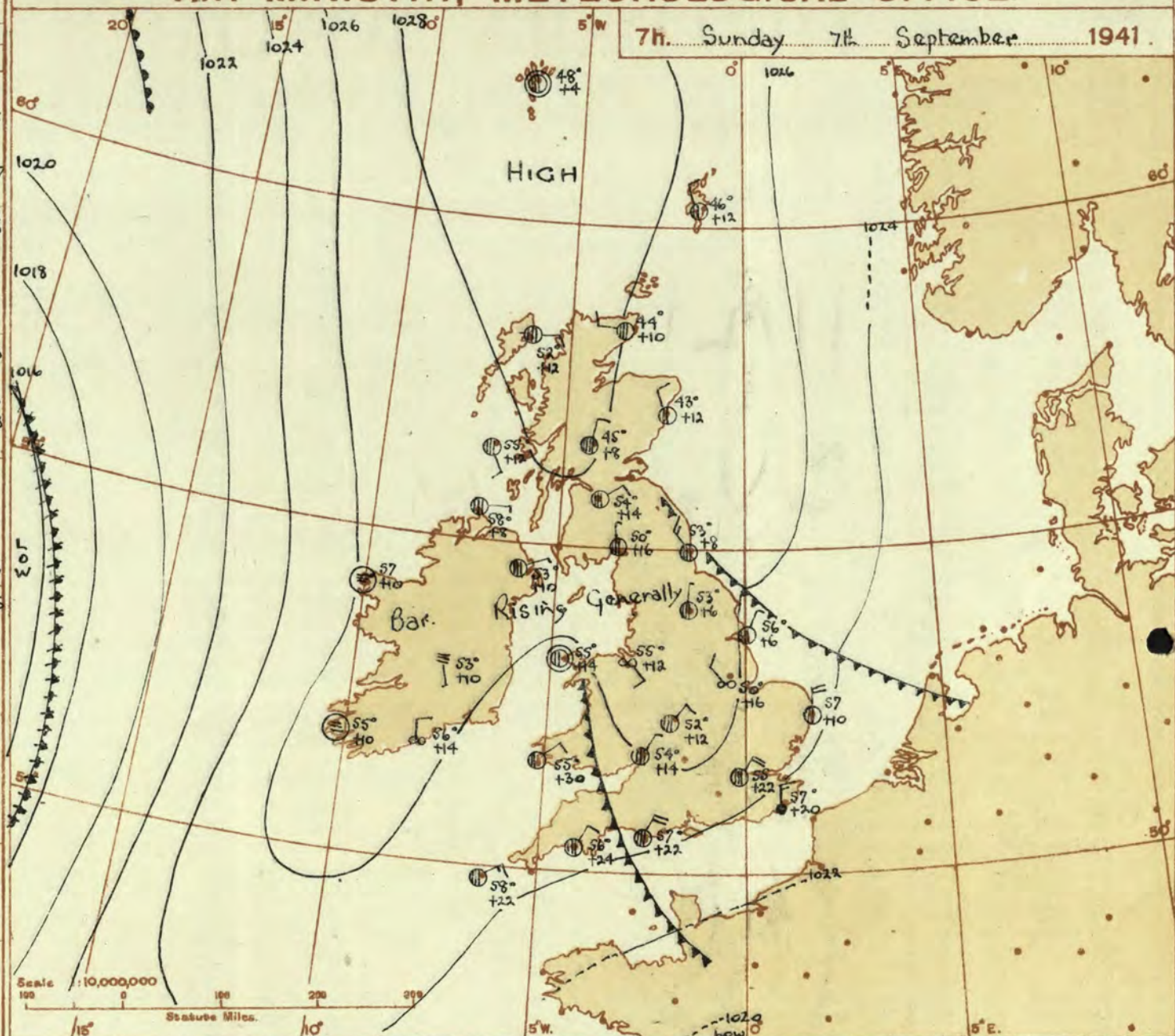


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 6th September 18h. G.M.T.						01h. G.M.T. 7th September 07h. G.M.T.						
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	8-	01856	28426	53	01854	01424	50	01854	27214	52	02065	04215
115	53	02944	04286	53	02944	08326	53	02844	08325	73	02054	12225
203	85	02944	32425				57	01943	04214	5-	81948	12228
206	8-	01866	08326	83	02965	08126	53	01864	04124	6-	81857	32228
210	13	00962	04213	84	02966	03226	53	01853	03324	83	01955	18126
220	03	00990	07302	03	00990	11303				52	02744	07328
230	70	00865	00013	17	00961	32113	5-	02667	00027	53	02856	00027
245	86	02954	34427	46	01963	01214	54	00962	32113	54	02966	28117
260	5-	02755	06228	5-	02757	08267	5-	02868	09128	53	02857	00027
278	00	05650	30300	8-	05665	02205	5-	02866	09216	54	01764	16114
279	13	05661	00002	5-	02766	06526	5-	02868	04328	5-	09968	05328
285				5-	05638	02328						
288	77	05654	04255	5-	05637	32327	5-	05667	32227	5-	05678	20128
575	10	05661	24441	2-	05665	28315	03	04690	00326	50	05673	00023
801	50	05652	27212	50	05650	04200	53	05655	06227	87	05655	12328
321				5-	05657	02317	07	05690	28113	57	05655	30117
290	5-	05657	00027	5-	02746	30416	50	01743	30313			
292	5-	05647	27157	54	01744	30224	5-	02757	30227	5-	05668	29228
310	--	46209	08245									
614	5-	21654	04258	5-	05657	03127	04	05690	32222	54	05665	32227
833	5-	02655	04315	00	05703	30213	00	08130	00020	5-	05658	26225
334	--	05447	16228	--	03547	12228						
340	5-	08438	30228	5-	05546	12128	5-	55575	08345	5-	05667	15117
136	5-	51648	02358	5-	5256	02357	75	01944	02364	10	01943	02314
336	52	21744	32358									
350	52	51635	02428	52	51637	02350	5-	55648	02468	54	05621	02213
368	50	05646	06226	5-	05647	34327						
379	5-	08418	04358	5-	2638	02358	5-	05648	04328	50	01744	02314
390	5-	05648	06228	5-	05648	31328	5-	51748	30328	50	00851	01211
382	52	05637	04228	5-	51658	01358	5-	51648	02328	50	00741	32201
438	02	62438	04368							8-	10755	09415
430	5-	08438	04228	52	05644	04228	5-	05646	02328	5-	02747	04327
400	57	02735	31428	51	02635	32227	52	02457	03148	50	05654	06222

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

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

1 S.E. England	
2 E. England ...	
3 E. Midlands ...	Light to moderate N. to N.E. winds; generally fair, with considerable bright periods; cool.
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Light easterly to variable breeze; fine, cool.
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	Light N.W. winds; considerable bright periods; a few light local showers; very cool.
17 N.W. Ireland	
18 N. E. Ireland	Light variable breeze; fair to fine; some morning fog; average temperature.
19 S. E. Ireland	
20 S. W. Ireland	

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

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

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

GENERAL INFERENCE.

An intense anticyclone centred over the Faeroes area is moving S.S.E. A period of fair to fine weather will be enjoyed in practically all areas for at least the next day or two. Day temperatures will rise slowly, but the nights will be cool.

FURTHER OUTLOOK.

Fair generally; day temperatures rising slowly.

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

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

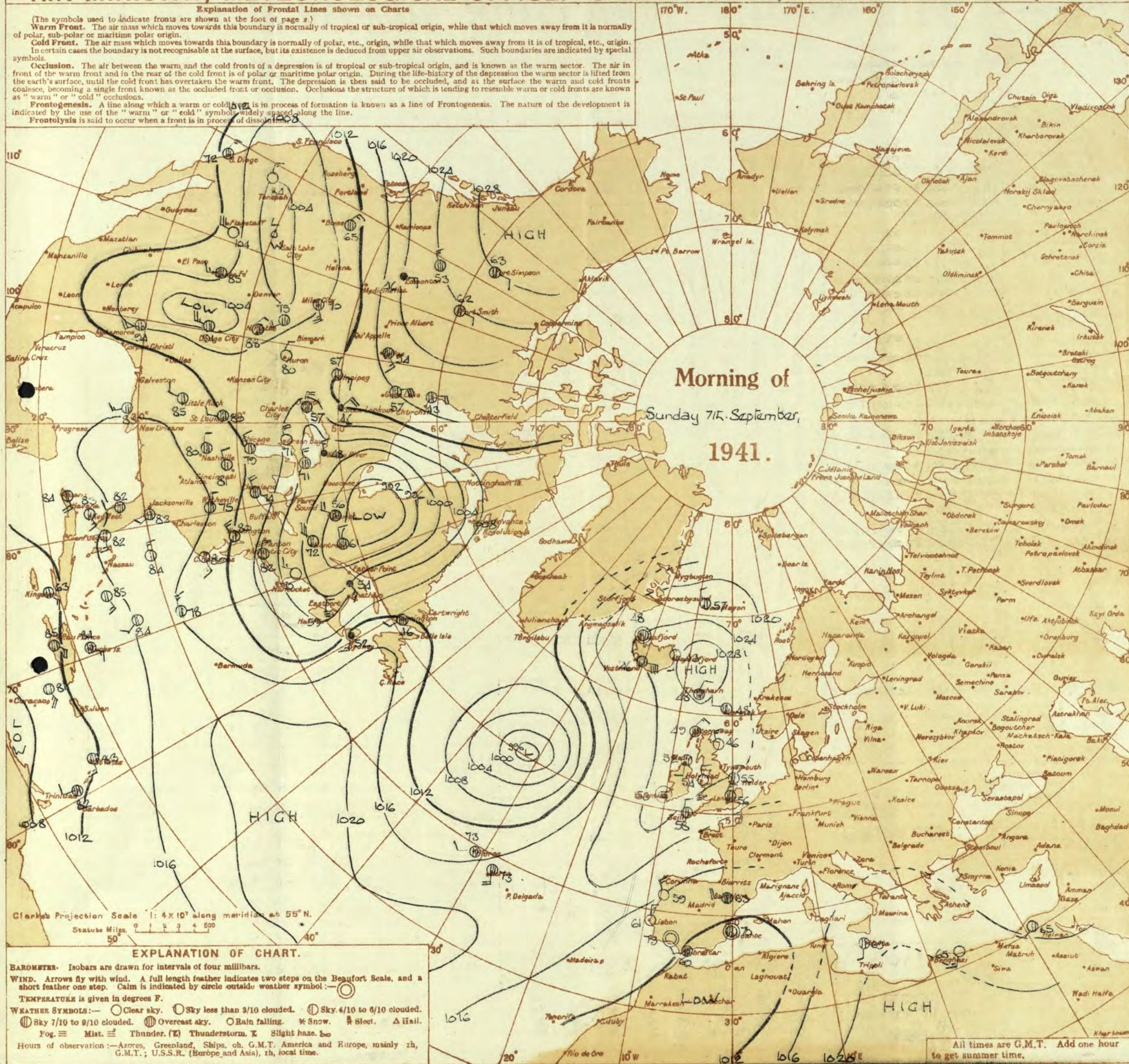
6.229/4120. No. 5176. O. 6034. Sp. 246. 3300. 5/41.



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

## Explanation of Frontal Lines shown on Charts

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









AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTIONMonday 8th September 1941.  
No. 29145

OBSERVATIONS at 13h. G.M.T. 7th September														OBSERVATIONS at 18h. G.M.T. 7th September														PAST 24 HOURS.																																																																																																																																																																																																																								
Disor.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				Barom. at M.S.L.	Change in 3 hours.	Wind.		State of Ground.	Sea.	WEATHER.																																																																																																																																																																																																																				
				Dir.	Force. 0-12					Low.	Med.	High.	Low.			Total 0-10	Height of Base. (feet)					Dir.	Force. 0-12	Low.	Med.			High.	Low.			Total 0-10	Height of Base. (feet)	Dir.	Force. 0-12	Low.	Med.	High.	Low.	Total 0-10	Height of Base. (feet)	Dir.	Force. 0-12	7h.—13h. 7th	13h.—18h. 7th	18h. 7th. to 1h. 8th.	1h.—7h. 8th.																																																																																																																																																																																																					
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1027.2 1026.7 1027.0 1027.6 1026.2 1026.2 1026.5	+4 +2 +2 +6 +2 +8 +8	NNE NE NE'E NE NE N NNE	3 3 3 3 3 4 4	c c bc bc bc c bc	63 64 64 63 66 62 61	55 55 55 65 55 65 65	7 8 8 8 8 9 9	7 1 1 1 1 1 1	- - - - 4 1 1	4 2 2 4 1 1 2	4.6 4.6 4.6 4.6 4.6 4.6 4.6	9+ 7.8 2.3 3.0 1 8 3	2500 3000 2500 3000 2500 3500 2500	1028.1 1027.1 1027.7 1027.8 1027.4 1027.1 1027.6	+10 +6 +8 +6 +4 +12 +10	N NE NE NE NE NNE NE	2 3 3 2 2 2 3	c bc bc bc bc b b	62 60 62 62 62 57 57	55 65 65 65 65 65 65	8 8 8 7 8 8 9	5 4 4 4 4 5 5	3 - - - - - 7	- - - - - - -	Tr Tr Tr Tr Tr Tr Tr	1 1 1 1 1 1 1	3000 3000 4000 5700 6000 3000 3000	0 0 0 0 0 0 0	3 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 1 1 1 1 1	0 0 0 0 0 0 0	1

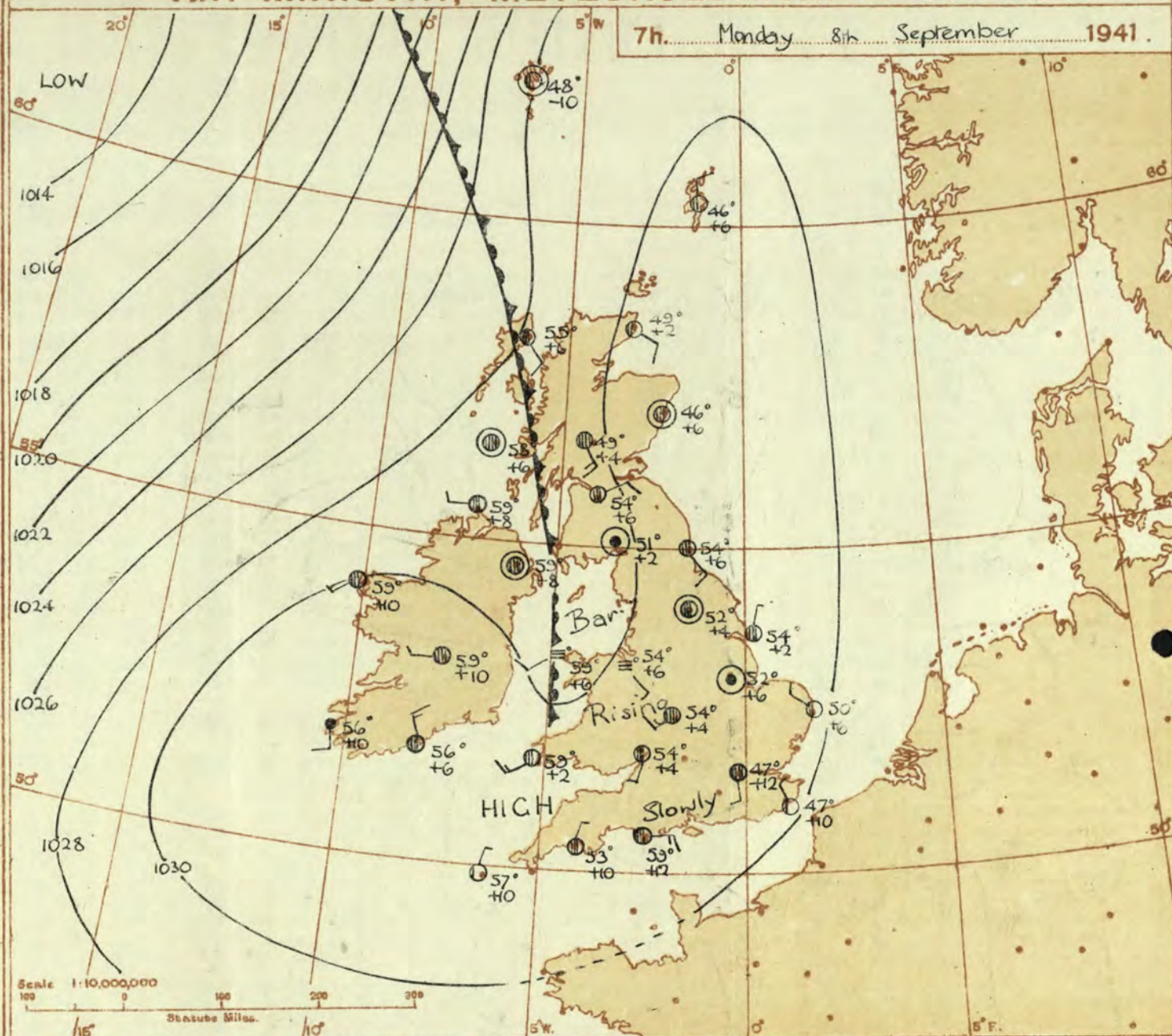


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 7th. September. 18h. G.M.T.				01h. G.M.T. 8th. September. 07h. G.M.T.			
IIIQ. C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub> C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub> C <sub>M</sub>	wwVhN <sub>h</sub>
1097-	02866	01326	7-	00861	02313	00	01890
11573	01951	08224	51	02944	08427	55	02944
2035-	02945	04325					
20687	01364	06226	57	02975	06325	03	02990
21073	01363	01325	03	02990	07327	53	02974
22051	25845	0288					
23053	01764	28115	5-	02867	00017	5-	05658
24563	01964	09216	4-	02966	12128	5-	02858
26073	01763	04214	5-	02767	06187	52	05665
27813	02751	14216	5-	02667	12218	5-	05558
27917	02863	30226	47	05663	20127	07	08490
285							
288-	03657	03227	5-	02777	08227	5-	02768
57553	05644	10127	5-	05556	26326	5-	05548
8015-	05567	12327	03	05690	00015	03	45290
3217-	02854	32226	5-	02767	01127	5-	02768
29984	01853	30313	57	01853	30314	5-	02756
2925-	05668	28128	5-	02857	05127	57	02855
310							
6147-	02878	04128	03	02790	04427	5-	05577
3337-	02666	20116	5-	05666	24116	5-	08465
334							
3407-	02767	14227	03	05690	22116	5-	08487
13610	01955	02816	13	00951	02213	5-	02977
336							
35077	02864	02316	4-	02876	04226	5-	02768
36810	00761	12211	53	05663	00025		
37910	01854	04314	00	01890	28357	03	05690
3905-	02857	02317	50	01863	30313	00	00790
38213	01862	02215	44	01861	02114	00	04690
43650	01875	04415					
43010	01851	02303	40	00862	32213	00	00890
40910	00752	03312	10	00851	04201	00	00690

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 8th September.

1 S.E. England	
2 E. England ...	Light variable winds; fair, with some bright periods; rather cool.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	Light southerly winds; cloudy, with slight local drizzle; some coast and hill fog; rather cool.
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	As 0-5
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light S. to S.W. winds; cloudy, with slight local drizzle; some coast and hill fog; rather cool.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Light southerly wind; mainly cloudy; rather cool.
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	Light variable winds; cloudy, with slight local drizzle; some coast fog; average temperature.
19 S. E. Ireland	
20 S. W. Ireland	

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—  
 = Warm Front on the surface  
 = Warm Front above the ground  
 = Cold Front on the surface  
 = Cold Front above the ground  
 = 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 the eastern and southern parts of the British Isles, but a weak trough of low pressure lying down the west coast of Scotland and the Irish Sea is moving very slowly east. There will be some local drizzle in the west and north, with local hill and coast fog, but elsewhere weather will be fair. Temperatures will be mainly rather below average.

FURTHER OUTLOOK.

Continuing mainly fair.

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.

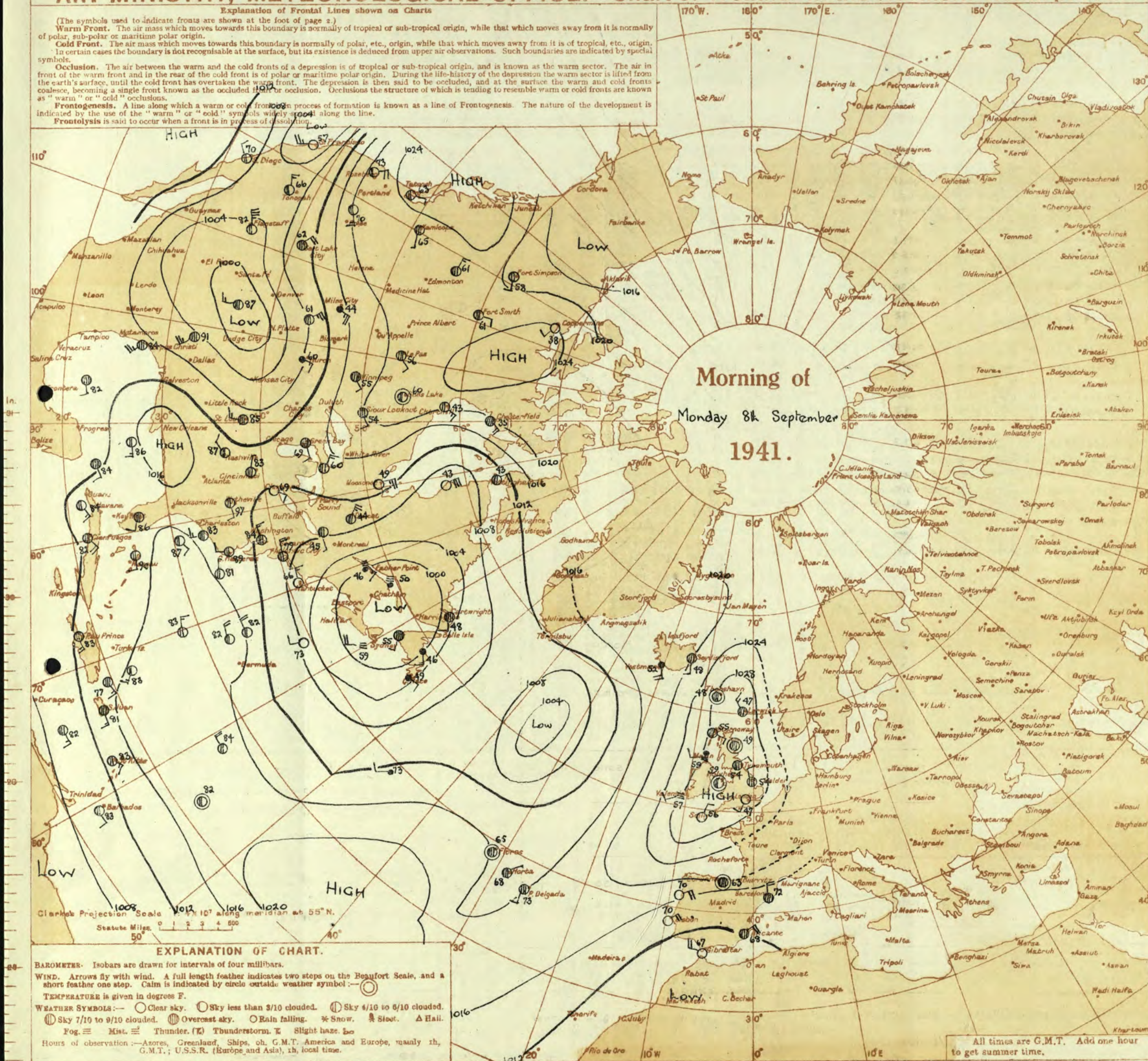
9.268/4420. No. 8176. D. 6034. Ep. 248. 9.000 3/41



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

Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 8th September														OBSERVATIONS at 7 hr. G.M.T. 8th September														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.					Barom. at M.S.L. (29)	Change in 3 hours.	TEMPERATURE.		RAINFALL.		SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					Direc.	Force.				Form.	Amount.	Height of Base (feet).	Direc.	Force.			Form.	Amount.				Height of Base (feet).	Direc.	Force.	Form.	Amount.			Height of Base (feet).	Max. Day 7h-13h °F.	Min. Night 13h-7h °F.	Min. on Grass °F.		Day 7h-13h mm.	Night 13h-7h mm.	7h-13h Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Tuesday, 9th. September, 1941  
No. 23146

OBSERVATIONS at 13h. G.M.T. 8th September.														OBSERVATIONS at 18h. G.M.T. 8th September.														PAST 24 HOURS.						
STATIONS.	Barom. M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.						Barom. M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.						Sea. 0-9	WEATHER.				
			Direc.	Force. 0-12					Form.	Amount.		Height of Base. (feet)	Direc.	Force. 0-12			Form.	Amount.					Height of Base. (feet)	State of Ground. 0-9	7h.—13h. .....	13h.—18h. .....	18h.—24h. .....	1h.—7h. .....						
										Low.	Med.							High												Low	Total	Low	Total	Low
1 London (Kew) ...	1030.8	-10	SSE	2	20	64	65	6	5	-	-	7-8	7-8	4000	1029.3	-6	S	2	20	63	75	6	5	-	-	10	10	4000	1	*	bmywbccz	cbccz	bobbecm	womo
Croydon ...	1030.5	-8	H	1	20	63	65	6	5	-	-	9+	9+	4000	1028.8	-6	SE	2	20	61	75	6	5	-	-	9+	9+	4000	0	*	czo	czo	czcmcc	cmcm
8. Farnborough	1030.8	-10	W	2	C	68	55	7	5	3	-	4-6	7-8	4000	1029.0	-8	SSW	1	C	65	65	7	5	7	-	7-8	9+	2000	0	*	cmobccz	cbccmcc	cmobwcm	cmfm
Boscombe Down	1031.1	-2	-	0	20	65	65	7	5	7	-	4-6	9	4000	1029.7	-4	W/N	2	20	63	75	6	-	7	-	0	7-8	-	0	*	bcmabz	bczo	bcmccr	cm
Thorney Island	1031.1	-6	SSW	2	bc	63	55	8	1	3	-	1-4	4-6	4000	1029.9	-6	S	2	bc	61	75	7	-	-	1	0	2-3	-	0	*	lobbacy	beybcb	cmcc	cmcc
Lympe ...	1030.6	-10	N/E	1	C	59	65	8	7	3	-	7-8	7-8	2500	1029.7	-6	-	0	C	57	85	8	5	-	2	9+	9+	3500	0	\$ 2	bmac	C	cmcc	cmcc
Manston ...	1030.6	-6	N/E	2	C	59	75	8	7	-	-	9	9	6000	1030.6	-2	-	0	C	57	75	8	7	-	-	9+	9+	4400	0	*	C	C	cmcc	cmcc
2 Shobernyness ...	1031.3	-6	-	0	C	59	75	8	5	-	-	10	10	4000	1029.7	-10	-	0	C	58	75	7	5	-	-	10	10	5700	0	*	C	C	cmcc	cmcc
Felixstowe ...	1030.6	-2	NW	2	C	60	65	8	8	-	-	7-8	9+	2500	1029.3	-4	H/E	1	C	58	75	8	5	-	-	10	10	3500	0	1	C	C	cmcc	cmcc
Gorleston ...	1030.7	-2	N/E	3	bc	57	65	7	2	-	-	4-6	4-6	3000	1029.8	-4	H	2	bc	58	65	7	5	3	-	4-6	4-6	2500	0	3	abc	bcc	cmcc	cmcc
Mildenhall ...	1030.6	-10	-	0	C	60	75	9	7	-	-	2-3	9+	3000	1029.1	-10	SSE	1	C	58	85	7	5	-	-	9+	9+	4500	0	*	cmgpmcc	evc	cmcc	cmcc
Cranwell ...	1030.1	-10	S/E	2	C	60	75	7	5	3	-	4-6	9+	5000	1028.8	-6	SE	2	C	57	85	7	5	-	-	10	10	2000	0	*	C	C	cmcc	cmcc
3 Birmingham	1029.4	-4	WSW	2	20	67	65	6	7	3	-	4-6	9+	1500	1028.7	-4	NW	2	20	64	75	5	5	-	-	10	10	1500	0	*	CZ	CZ	cmcc	cmcc
Upper Heyford	1029.3	-6	S	2	20	67	65	6	1	4	-	4-6	4-6	2500	1028.7	-4	W	2	20	64	85	6	5	-	-	9+	9+	2500	0	*	bbccbcm	bcmccm	cmcc	cmcc
4 Ross-on-Wye ...	1029.8	-4																																

### EXPLANATION OF FIGURES, LETTERS AND SYMBOLS

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

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

q, squalls. r, rain. s, snow.  
ra, sleet. t, thunder.  
u, ugly, threatening sky.  
v, unusual visibility. w, dew.  
x, hoar frost. y, dry air.  
z, dust haze: the turbid atmosphere  
of dry weather.  
h(r), "hail" or "rain and hail."  
Capital letters indicate intense;  
suffix o indicates slight; repetition  
of letters indicates continuity: thus  
R, heavy rain. r<sub>o</sub>, slight rain.  
rr, continuous rain.  
◁, less than (for cloud height). ↗gale.  
⊕ Solar halo. ⊙ lunar halo. ⇨Aurora.  
With present weather is combined,  
whenever possible, the general  
character of the weather.  
A "solidus" divides actual exist-  
ing weather from preceding con-  
ditions thus: —bc/r, fair weather  
after rain; —, has decreased;  
+, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

An entry "4-6" 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 (Na).  
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
	Stratocumulus, -Sc	Stratus, -St	Nimbostratus, -Ns
0 .. Ground dry.			COLUMN 29 — ST
1 .. "	wet.		7 ..
2 .. "	flooded.		8 ..
3 .. "	frozen hard and dry.		
4 .. "	partly covered with snow or hail.		9 ..
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 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 Ce predominating, and a little cirrus.

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

COLUMN 29 —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. 8th. Sept. .... 13h. G.M.T.					01h. G.M.T. 9th. Sept. .... 07h. G.M.T.											
III	C <sub>L</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>L</sub>	C <sub>M</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>L</sub>	C <sub>M</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>L</sub>	C <sub>M</sub>
108	020000		13404	5-	02048										5-	08438
115	5202844		12227	52	81738					--	46100	20480	--	46100	20440	
203				5-	25838					5-	02838	10458				
206	5702875		00027	57	02863					57	02855	22367	57	61855	22268	
210	5702864		01127	57	22864					5-	22797	22867	5-	02867	22427	
220													5-	57208	23258	
230	5-03638		00058	5-	05538					5-	51628	20156	5-	03728	20358	
245	5702764		16327	57	81645					57	05660	00088	5-	02966	22227	
260	5-05548		00028	54	05560					5-	05665	20225				
275	5-05648		32158	57	02845					5-	05518	28458	5-	52618	28458	
279				5-	05548					57	41447	20348	57	02745	22228	
285				5-	03538								5-	03638	26428	
288	5-58768		17268	5-	05648					5-	05668	18128	54	05654	20226	
575	5221736		26358	63	02735					5-	51648	26258	5-	51748	26158	
805	5-05548		25328	5-	05525					53	05645	30247	5-	05634	20358	
321	5-05658		12228	5-	05658					5-	05538	14128	53	45364	21147	
299				5-	02847					5-	05648	20228	5-	05648	22228	
292	5-05668		17128	5-	17538					5-	05567	00027	57	08444	11147	
310	003638		08218	--	05428											
614	0708420		14128	57	05556					5-	08448	00028	07	05530	26217	
333	5205646		24228	52	05646					5-	21648	00058	5-	52628	24258	
334				--	03657								--	33538	16128	
340	5-05668		00028	5-	05658					03	08420	28227	5-	57329	28258	
1367	02057		00057	57	02051					5-	02868	10228	5-	03868	16128	
336	5202763		28317	51	05652								51	02763	28328	
350	1301753		20224	52	05656					5-	05638	04128	5-	08428	28228	
368	5-05678		22328	5-	05678											
379	5305661		20215	00	05630					5-	08457	30267	5-	08438	30228	
390	5-02768		00028	53	02774					5-	05658	00058	5-	05667	26127	
382	1300762		22213							5-	08447	27227	5-	05548	30228	
438	5102764		04227										8-	03528	32228	
430	5301862		16113	00	00830					03	05630	28115	52	21446	22158	
409	5001764		24114	03	01730					50	02538	00028	50	41418	32248	

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, h<sub>N</sub>

=

Height and amount of low cloud—See M.O. 252.

N

=

Total amount of cloud—See M.O. 252.

C<sub>L</sub>, C<sub>M</sub>

=

Form of low and medium cloud—See page 1.

V

=

Visibility.

F

=

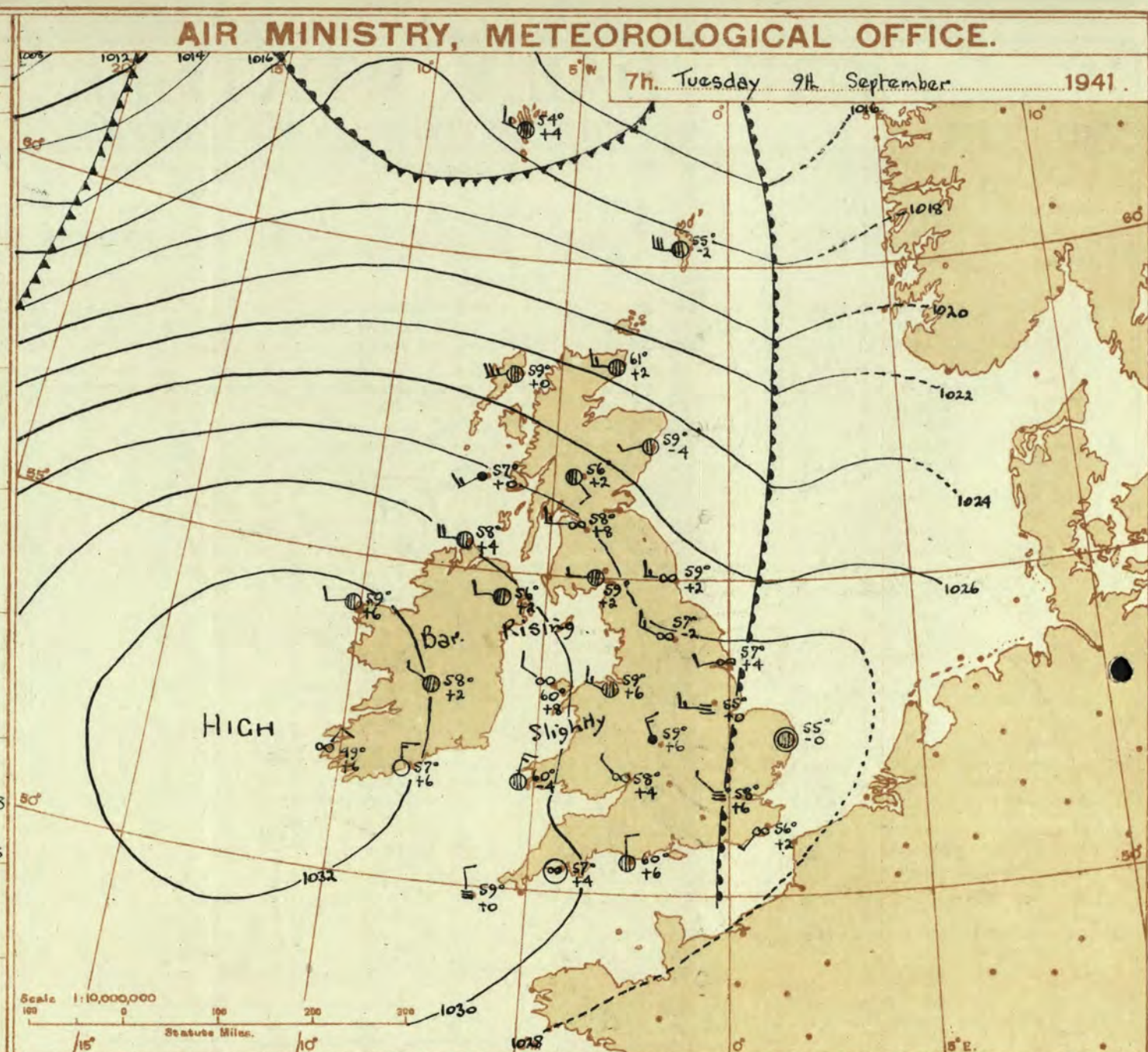
Force of wind—See page 4.

DD

=

Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 9th September 1941
1 S.E. England	Light variable or N.W. wind; cloudy; slight local drizzle at first; average temperature.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light N. wind; variable cloud; average temperature.
6 South Wales ...	
7 North Wales ...	Light or moderate N.W. to W. wind; cloudy; local drizzle; average temperature.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Light or moderate W. wind; fair; rather warm.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light or moderate W. wind, fresh in North Scotland; cloudy; some drizzle; average temperature.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	



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

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

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

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

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

**GENERAL INFERENCE.**

A large anticyclone is centred over West Ireland. Weather will be mainly cloudy, but there will be bright intervals in the S.W. and N.E. Drizzle will occur locally, chiefly in the N.W.

**FURTHER OUTLOOK.**

Similar.

Forecasts issued at 1030 G.M.T.

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

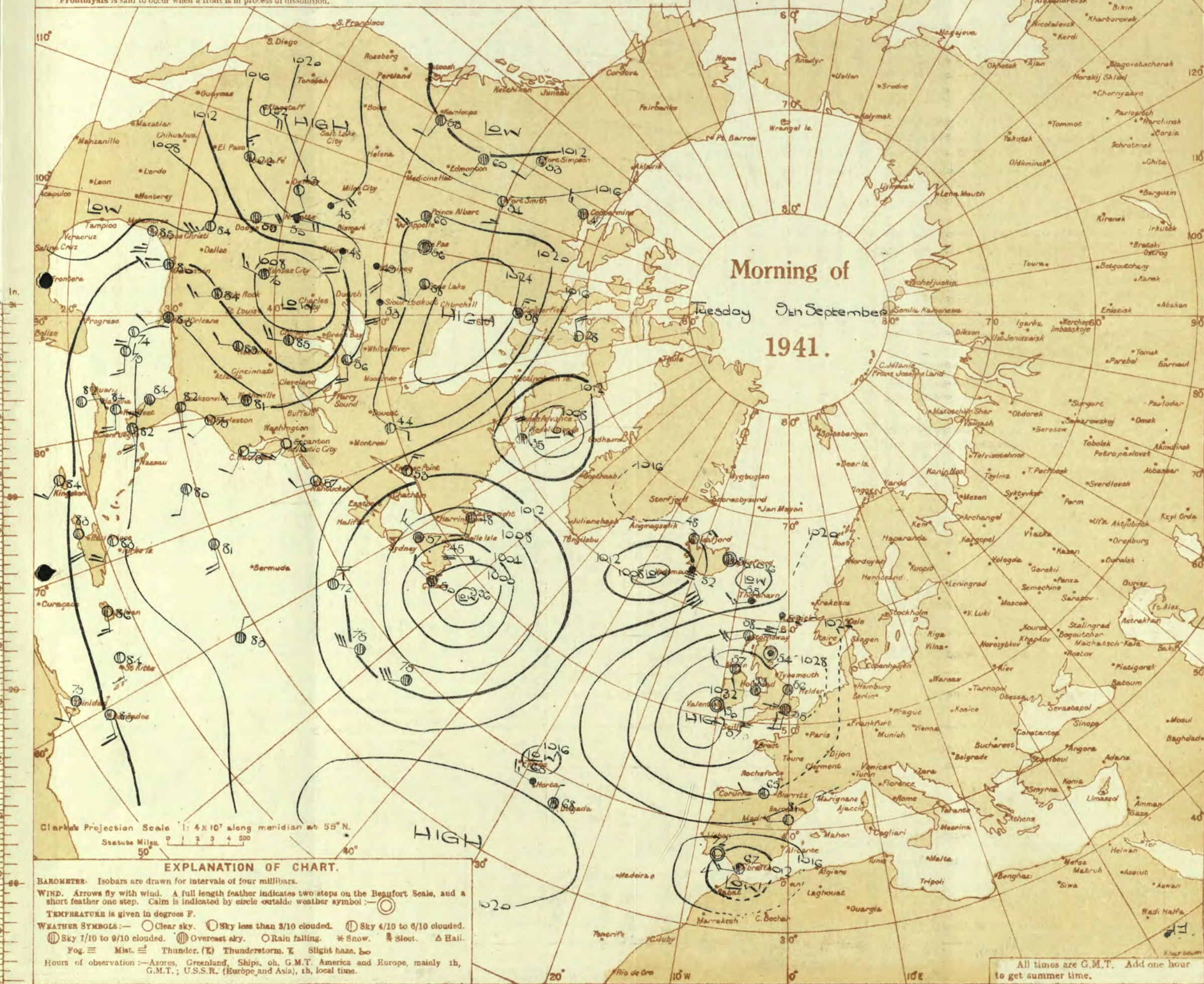
H. M. S. O. Press, Meteorological Office, Dunstable.



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 8th September														OBSERVATIONS at 7 hr. G.M.T. 9th September														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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
					Dir.	Force.					Form.	Amount.	Height of Base (feet).	Dir.			Force.	Form.					Amount.	Height of Base (feet).	Dir.	Force.			Form.	Amount.	Height of Base (feet).	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.		Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
																																						0-12	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10



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

SECRET

BRITISH SECTION  
Wednesday 10th September 1941.  
No. 29147

OBSERVATIONS at 13h. G.M.T. 9th September															OBSERVATIONS at 18h. G.M.T. 9th September															PAST 24 HOURS.					
Direction.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1) mb.	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. (15) mb.	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.					
				Dir.	Force. 0-12 (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 (25) (26)					Height of Base (feet) (28)	7h.—13h. 9h. (37)	13h.—18h. 9h. (38)	18h.—to 1h. 10h. (39)	1h.—7h. 10h. (40)								
1	London (Kew)...	1028.6	0	NNW	2	z	67	75	6	S	-	-	7-8	7-8	2500	1028.2	-2	NNW	2	z	67	75	6	-	-	1	Tr	1	2500	0	*	cmom	z	bbcc	cmow
	Croydon ...	1028.4	-2	N	1	m	67	75	4	S	-	-	9	9	2000	1027.5	-2	NNW	1	z	67	75	6	-	-	1	Tr	-	0	*	ofcm	czobz	bmowcm	omoid	
	S. Farnborough	1028.9	-2	NW	3	z	68	65	6	-	-	-	2-3	4-6	2500	1028.3	-2	NNW	2	z	65	75	6	-	-	-	0	0	0	*	cmobcz	bbcc	bzofwcm	comdd	
	Boscombe Down	1029.5	+2	NNE	2	z	65	75	6	S	-	-	10	10	2000	1029.2	-2	N	2	z	64	85	6	S	-	-	9+	9+	1600	0	*	cm	cm	bccmfif	offod
	Thorney Island	1028.8	-2	NW	1	z	69	75	6	S	-	-	7-8	7-8	1500	1028.1	-2	N	3	z	66	75	6	-	-	-	0	4-6	-	0	*	cm	cmobcm	bfomow	bmow
	Lympne ...	1029.0	-2	SE	1	c	59	85	7	-	-	-	10	10	1200	1028.3	-4	SW	1	z	59	85	6	-	-	-	0	9	-	0	*	cmoc	cm	cmom	bffoid
	Manston ...	1028.7	-6	-	0	z	63	75	6	-	-	-	10	10	2500	1027.9	-4	SW	1	z	61	85	6	S	-	-	4-6	9+	5000	0	*	cm	cm	idcm	cmwcm
2	Shoeburyness ...	1028.9	-4	SSW	1	c	63	75	6	S	-	-	4-6	7-8	4000	1027.6	-6	S	1	c	64	85	5	S	-	-	9	9	5700	0	*	cmoc	cm	cm	cm
	Felixstowe ...	1028.1	-6	S	1	c	63	75	7	S	-	-	9+	9+	4000	1027.2	-6	SW	1	c	63	75	5	S	-	-	10	10	3500	0	2	cm	cm	cm	cm
	Gorleston ...	1028.3	-6	SSW	2	c	63	75	6	S	-	-	7-8	7-8	2900	1027.1	-2	NW	1	c	65	75	5	S	-	-	9+	9+	2500	0	2	cm	cm	cm	cm
	Mildenhall ...	1027.5	-8	W'S	1	z	70	75	6	S	3	-	4-6	9	4000	1026.9	-2	NNW	2	z	68	92	6	S	-	-	9+	9+	4000	0	*	cm	cm	cm	cm
	Cranwell ...	1027.9	-6	NNW	1	z	69	75	6	-	-	-	4-6	9+	3000	1027.3	0	NNW	3	z	67	75	5	S	3	-	2-3	7-8	3000	0	*	efbccz	cz	czcm	bmcm
3	Birmingham	1029.8	0	NNW	3	z	62	85	5	S	-	-	9+	9+	2500	1029.2	-2	NNW	2	z	61	85	6	S	-	-	10	10	800	1	*	odoc	cz	o	oc
	Upper Heyford	1029.2	-2	NNW	2	z	62	85	5	S	-	-	9	10	1200	1028.7	0	NNW	2	z	64	85	5	S	-	-	9+	9+	1500	0	*	cm	cm	cm	cm
4	Ross-on-Wye ...	1029.6	0	N	2	c	66	85	8	S	-	-	10	10	2500	1028.4	-8	E'S	1	c	67	85	8	S	-	-	9+	9+	2500	1	*	cc	cbcc	c	cmoc
5	Hartland Point	1030.8	+2	N	1	c	62	97	6	S	-	-	9	9	400	1029.8	-4	N	3	c	61	92	8	S	-	-	9+	9+	1000	0	2	c	c	cbzcm	cbcc
	Bristol ...	1030.0	-2	N	1	c	66	75	7	S	-	-	10	10	1200	1028.9	-8	N	0	c	68	85	7	S	-	-	9	9	1200	0	*	cmow	c	c	cmoc
	Portland Bill ...	1029.4	0	N	2	c	66	85	7	S	2	-	7-8	10	2500	1028.7	-4	N	2	c	65	85	7	S	-	-	10	10	2500	1	2	c	c	c	cmoc
	Plymouth ...	1030.5	-2	NW	2	z	68	75	7	S	-	-	9	9	3500	1029.9	-2	NNE	1	c	67	75	7	S	-	-	7-8	7-8	2500	0	2	cm	z	c	cmoc
	The Lizard ...	1030.4	-2	N	3	c	64	85	6	-	-	-	9	10	1500	1029.9	-4	-	0	c	64	85	8	-	-	-	7-8	9+	2000	0	2	cdccz	c	c	cmoc
	Scilly (St. Mary's)	1031.4	+2	NNE	2	c	65	85	6	S	-	-	10	10	1100	1030.5	-2	NNE	2	c	61	92	7	S	-	-	7-8	7-8	1500	0	2	cbcc	c	cbcc	cm
	Guernsey ...	1031.4	+2	NNE	2	c	65	85	6	S	-	-	10	10	1100	1030.5	-2	NNE	2	c	61	92	7	S	-	-	7-8	7-8	1500	0	2	cbcc	c	cbcc	cm
6	Pembroke ...	1031.6	+2	NNW	2	c	64	85	6	S	-	-	9+	9+	2500	1031.2	-6	N	2	c	60	92	6	S	-	-	9+	9+	2500	0	2	cm	cm	cm	cm
7	Holyhead (Valley)	1031.0	+2	NW	3	d.c.	60	92	5	S	-	-	10	10	600	1030.0	-6	NW	3	c	60	85	7	S	-	-	10	10	2000	0	2	cdmdd	cm	cm	cm
	Chester (Sealand)	1030.0	+2	NNW	4	d.c.	63	85	6	S	-	-	9+	9+	500	1029.6	-2	NNW	3	z	60	85	6	S	-	-	9+	9+	1500	0	*	cm	cm	cm	cm
8	Manchester ...	1029.7	+2	NNW	3	c	61	92	7	S	-	-	9+	10	1100	1029.4	-2	NW	2	z	59	92	6	S	-	-	10	10	2500	0	*	cm	cm	cm	cm
10	Spurn Head ...	1027.6	-2	NNW	3	z	67	75	5	S	-	-	9+	9+	1800	1026.9	-6	SE'S	2	z	61	97	6	-	-	-	9	9	1500	0	2	cm	cm	cm	cm
	Catterick ...	1027.0	-2	NW	3	c	67	65	8	-	-	-	4-6	7-8	2800	1027.2	-2	NNW	2	bc	63	75	8	-	-	-	2-3	4-6	2800	0	*	cb	bc	bc	cm
	Tynemouth ...	1026.7	0	W	5	bc	68	65	8	-	-	-	4-6	4-6	3200	1026.5	0	W	4	bc	65	65	7	-	-	-	0	4-6	-	0	3	cb	bc	bc	cm
11	St. Abbe Head	1025.8	0	NW	4	c	62	85	8	-	-	-	4-6	7-8	2500	1025.1	-2	NW	3	bc	62	85	8	-	-	-	2-3	2-3	2500	0	2	c	bc	bc	bc
	Leuchars ...	1025.8	-2	W	4	bc	70	65	9	S	-	-	2-3	2-3	3500	1025.1	-2	W	4	bc	64	75	9	-	-	-	2-3	4-6	4000	0	*	cb	bc	bc	bc
12	Reafrow (Abbots L)	1028.6	-4	W'S	4	c	61	85	8	S	-	-	9+	9+	1800	1028.0	-6	WSW	2	c	59	85	8	S	-	-	9+	9+	2400	0	*	cmoc	c	ccm	ccid
	Eskdalemuir ...	1027.9	0	NNW	3	bc	60	75	7	-	-	-	4-6	4-6	1500	1027.5	-2	NNW	3	c	57	85	7	-	-	-	7-8	7-8	1500	0	*	cb	bc	c	ccid
	Point of Ayre ...	1030.1	0	NNW	3	c	60	92	7	S	-	-	9+	9+	4000	1029.8	-4	NNW	3	c	59	92	7	S	-	-	9+	9+	2500	1	3	cdcc	c	cdcc	ccid
13A	Tiree ...	1028.1	0	WSW	3	c	61	85	7	S	-	-	9	9	1500	1027.7	-4	WSW	2	c	59	92	7	S	-	-	9+	9+	2500	0	3	c	c	co	oir
13B	Stornoway ...	1025.4	-4	SW	4	c	62	92	8	S	-	-	7-8	10	2000	1024.3	-10	SW	5	c	60	85	8	S	-	-	7-8	10	2500	1	3	bc	c	cpr	cpr
15	Dalwhinnie ...	1027.8	-4	SW	2	c	61	85	8	-	-	-	9	9	1500	1025.3	-2	SW	4	c	55	85	8	S	-	-	9+	9+	1500	1	*	c	cid	cid	cid
	Aberdeen ...	1024.5	-4	NNW	3	bc	70	65	8	-	-	-	4-6	4-6	3100	1023.8	-2	NW	2	c	66	65	8	-	-	-	7-8	7-8	3500	1	1	cb	bc	bc	bc
	Wick ...	1023.7	-2	WN	4	c	66	85	9	-	-	-	4-6	7-8	1500	1023.2	-4	W	3	c	61	85	9	-	-	-	9+	9+	3500	0	*	cpr	c	cpr	cpr
16	Sumburgh ...	1019.5	+6	NNW	6	if	57	92	4	S	-	-	10	10	100	1019.6	+2	NNW	6	if	55	97	5	S	-	-	10	10	100	1	*	fd	fd	fd	fd
17	Blackod Point...	1021.2	0	WSW	2	c	61	85	7	-	-	-	0	10	-	1030.6	-4	WSW	2	c	60	85	7	-	-	-	0	10	-	0	1	c	cid	c	c
18	Malin Head ...	1029.7	+2	W	4	id.	59	92	6	-	-	-	9+	9+	800	1029.1	-4	W	3	c	59	85	7	-	-	-	9+	9+	800	0					



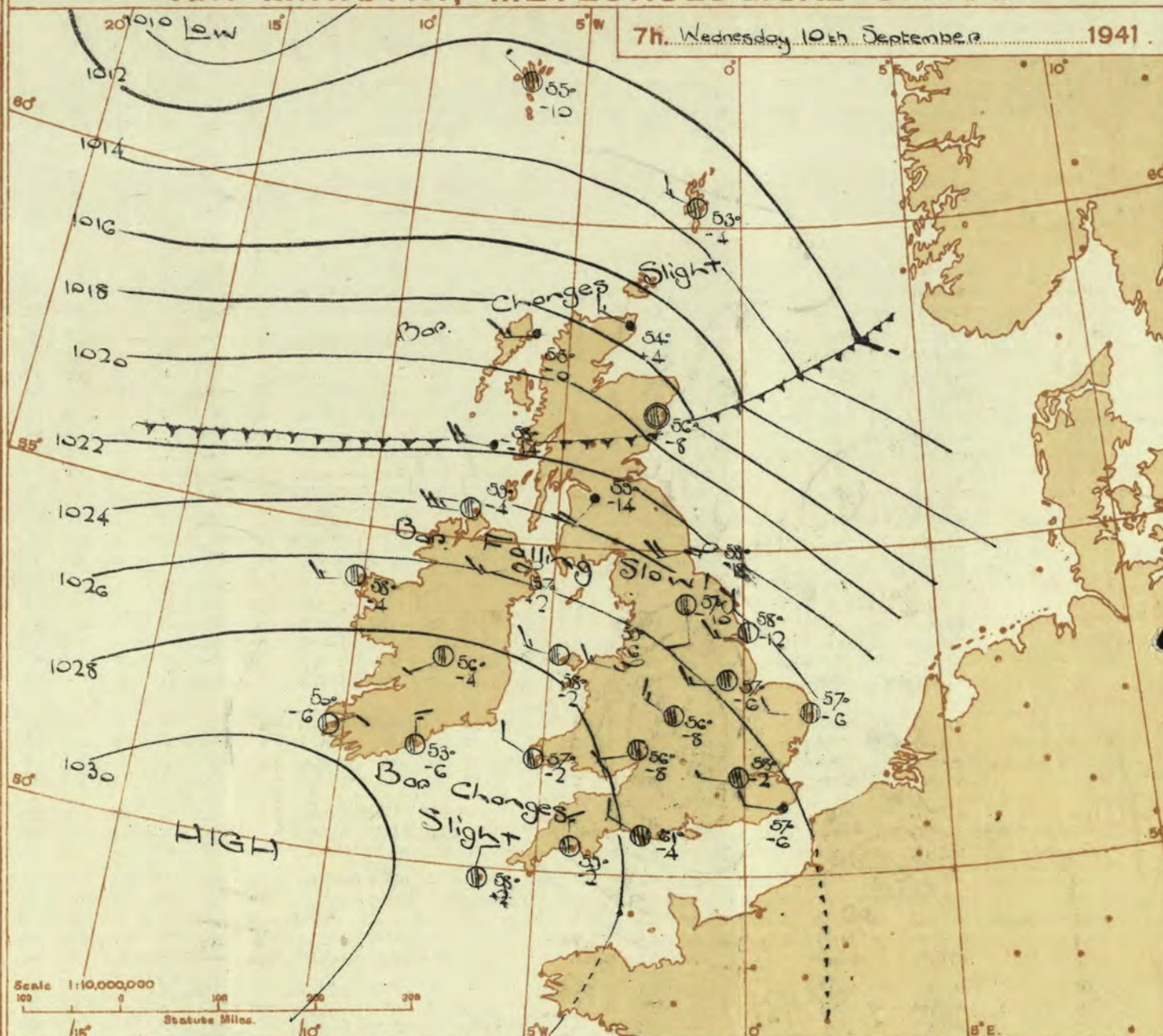
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 9th September 18h. G.M.T.				01h. G.M.T. 10th September 07h. G.M.T.			
III. C <sub>m</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>m</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>m</sub>	wwVhN <sub>h</sub>
1095-	55418	55658	5-	03748	22558	5-	62538 54728
115-	48109	20443	51	02934	20447	--	67109 10569
203			5-	02938	20428	5-	55838 16528
2065-	02865	22425	4-	25967	22297	57	02956 22428
21087	02965	22526	5-	02957	22327	53	02957 22527
22053	01845	22316	52	02744	22328		5-
2305-	02847	20327	5-	02857	20427	5-	05657 20427
24574	01954	22418	40	00953	23413	10	01863 22214
26050	02745	22425	5-	05665	22415	5-	05667 22427
2785-	51658	28358	5-	52648	27458	5-	05648 24358
2795-	02745	19226	5-	02857	28327	5-	02757 22327
2855-	05637	24527	23	02635	28515		53
28874	02855	24357	40	01762	26213	5-	02858 22228
57537	02744	24458	57	02743	26328	5-	02758 24328
8015-	51628	28358	5-	05647	28357	5-	05648 26358
3218-	05657	26327	5-	05647	26317	50	05551 27211
2905-	05847	26227	8-	05658	18215	5-	05647 00027
29224	02964	28226	54	01761	23313	5-	05665 00015
310--	46103	26249	--	57209	26349	--	--
61417	05663	28126	5-	05657	26327	5-	05556 26227
33251	51847	30358	7-	02858	30228	5-	02758 00028
334--	03656	16128				--	--
3405-	02748	29328	5-	02758	31328	5-	05657 24217
1361-	05565	24215	5-	05667	00027	5-	05648 25428
33652	02763	24328	51	02752	28327		51
3505-	05647	26227	07	05690	23214	5-	05547 26217
3685-	02754	24327	54	01863	24213		
3795-	21538	30258	50	05644	28224	5-	52538 28258
39050	05564	00014	5-	05666	27216	5-	08457 28227
38252	05646	30328	50	05645	24125	5-	51538 02328
48851	02744	10317				--	04309 30249
43087	05656	02228	00	05690	00003	00	45390 20140
4005-	02747	51357	5-	02738	01328	5-	51638 32228

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 10th September 1941.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 10th September
1 S.E. England	Light or moderate northwest wind; cloudy but a few bright intervals; rather cool.
2 E. England ...	Light or moderate northwest wind; cloudy, slight rain later, rather cool.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light north to northwest wind; fair but considerable cloud; average temperature
6 South Wales ...	
7 North Wales ...	Moderate west to northwest wind; cloudy or dull, occasional rain spreading southwards; rather cool.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	Moderate west wind, fresh on coasts backing southwest; cloudy, occasional rain; rather cool.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 7-12
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	Light or moderate west wind; cloudy but some bright intervals today; average temperature

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 off Southwest Ireland is decreasing in intensity and moving south while a cold front is moving slowly south over Scotland. There will be much cloud generally but with some breaks in the South. There will be occasional rain in the North and slight rain will spread southwards as far as the Wash area within 24 hours.

FURTHER OUTLOOK.

Cloudy generally; occasional rain in the North, bright intervals in the South.

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

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

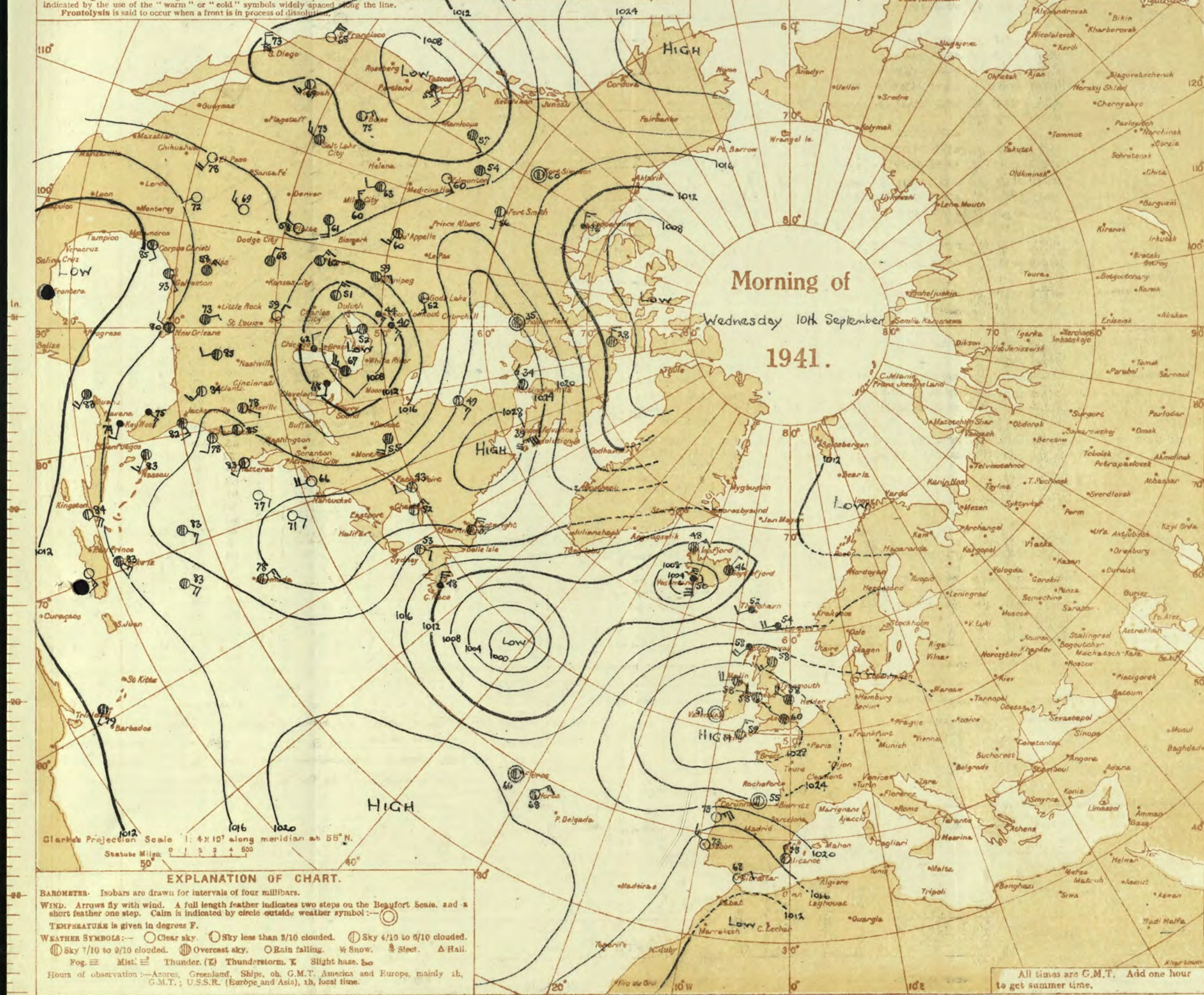
0.209/4120. No. 9/76. D. 6034. Cp. 348. 5905. 5/41



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 10th September 1941.

No. 29147

OBSERVATIONS at 1 hr. G.M.T. 10th September.....														OBSERVATIONS at 7 hr. G.M.T. 10th September.....														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 9th Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					Dir.	Force.					Form.	Amount.	Height of Base (feet).	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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Thursday 11th September, 1941.  
No. 29,148.

OBSERVATIONS at 13h. G.M.T. 10th September.														OBSERVATIONS at 18h. G.M.T. 10th September.														PAST 24 HOURS.							
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.					Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.					State of Sky. 0-9	Sea. 0-9	WEATHER.					
				Dir.	Force.					Low.	Med.	High.	Low 0-10	Total 0-10			Height of Base. (feet)	Dir.					Force.	Low.	Med.	High.	Low 0-10			Total 0-10	Height of Base. (feet)	7h.—18h. 10th.	13h.—18h. 10th.	18h. to 11th.	1h.—7h. 11th.
1	London (Kew) ...	1025.3	-6	NW	2	C	63	65	7	5	-	9+	2	2500	1023.1	-14	WSW	2	C	62	75	7	5	7	2	2.3	9	4000	1	*	CmoCwc	C	cbew	bcwew	
	Croydon ...	1025.3	-8	WNW	2	C	63	65	7	5	-	10	10	2500	1023.2	-16	W	1	C	60	75	6	5	4	2	2.3	9+	2500	0	*	CmoC	C	cbew	cbew	
	S. Farnborough	1025.0	-14	WNW	2	C	62	65	8	5	-	9+	10	2500	1023.3	-16	WNW	1	C	61	75	7	5	4	4	2.3	7.8	3100	0	*	CmoCwc	Cbc	cbew	cbew	
	Boscombe Down	1026.8	-6	NW	3	C	61	75	7	5	-	10	10	3000	1024.0	-16	WN	3	Zo	61	85	6	5	-	2	2.3	7.8	3000	0	*	CmoCwc	Ccmo	cbew	cbew	
	Thorney Island	1026.3	-10	NW	3	C	61	85	7	7	-	10	10	2000	1024.0	-16	NW	1	Zo	62	75	6	5	-	9+	9+	4000	0	*	CmoCwc	Ccmo	cbew	cbew		
	Lympne ...	1025.1	-10	WNW	2	Zo	63	75	6	7	-	9+	9+	3500	1023.1	-10	WNW	1	Zo	59	85	6	-	6	0	9+	-	0	2	* CmoCwc	Ccmo	cbew	cbew		
	Manston ...	1024.8	-10	WNW	3	Zo	63	65	6	5	7	2.3	7.8	3000	1022.3	-14	WSW	1	Zo	59	75	6	5	7	2	1	9+	5000	0	*	CmoCwc	Ccmo	cbew	cbew	
2	Shoeburyness ...	1025.3	-8	WNW	3	C	63	65	7	5	-	10	10	4000	1022.7	-14	W	3	bc	62	75	6	-	2	0	4.6	-	0	3	* CmoC	Cbc	cbew	cbew		
	Felixstowe ...	1024.2	-6	WNW	4	Zo	62	65	6	5	-	10	10	2000	1021.4	-14	WS	3	Zo	64	75	6	5	2	-	9+	10	3000	1	3	* Cmo	Ccmo	cbew	cbew	
	Gorleston ...	1023.3	-14	WNW	3	C	61	65	7	5	-	10	10	1800	1020.9	-6	WNW	3	C	64	65	6	5	-	10	10	1600	0	2	* Cmo	Ccmo	cbew	cbew		
	Mildenhall ...	1024.0	-14	WN	4	C	64	75	7	5	-	4.6	10	2500	1021.3	-14	W	2	Zo	62	85	6	5	1	-	7.8	10	3000	0	*	CmoC	Ccmo	cbew	cbew	
	Cranwell ...	1023.6	-10	WNW	4	C	66	55	7	5	1	4.6	10	1500	1021.3	-14	WNW	4	Zo	60	75	6	5	7	-	7.8	10	2500	0	*	CmoC	Ccmo	cbew	cbew	
3	Birmingham	1025.5	-6	WNW	3	C	61	55	7	5	-	9+	9+	2500	1023.1	-12	WNW	3	C	61	65	7	5	7	-	4.6	9+	2500	1	*	C	C	cbew	cbew	
	Upper Heyford	1025.0	-14	W	3	C	63	65	7	2	-	7.8	7.8	2800	1023.1	-12	WNW	2	C	60	75	7	5	-	6	2.3	9+	3000	0	*	C	C	cbew	cbew	
4	Ross-on-Wye ...	1025.5	-16	W	2	C	64	75	8	7	-	7.8	7.8	2500	1023.8	-16	W	3	C	61	75	8	1	-	6	7.8	9+	2500	1	*	C	C	cbew	cbew	
5	Hartland Point	1027.8	-8	WNW	3	C	64	85	7	5	1	7.8	9	600	1026.1	-8	WNW	3	C	60	75	7	5	-	2	2.3	7.8	1500	0	3	* C	C	cbew	cbew	
	Bristol ...	1026.6	-12	WNW	3	C	64	65	7	5	-	9+	9+	2500	1024.2	-10	W	3	C	60	85	7	5	-	6	2.3	9+	2400	0	* C	C	cbew	cbew		
	Portland Bill ...	1026.6	-6	NW	3	C	64	85	7	5	-	7.8	7.8	2500	1024.3	-10	SW	3	C	60	92	7	5	-	10	10	2500	1	2	* C	C	cbew	cbew		
	Plymouth ...	1028.1	-8	NW	3	C	67	65	8	1	-	4.6	7.8	3000	1026.4	-10	WNW	3	C	63	75	8	1	-	6	7.8	9+	3500	0	3	* Cbc	C	cbew	cbew	
	The Lizard ...	1028.6	-4	N	2	bc	63	85	8	6	-	4.6	4.6	1500	1026.9	-6	WNW	2	bc	65	75	8	8	6	-	4.6	4.6	2600	0	2	* Cbc	C	cbew	cbew	
	Soilly (St. Mary's)	1028.0	-6	NW	2	bc	64	75	7	5	4	2	4.6	1800	1027.3	-10	WNW	1	bc	63	85	7	5	4	2	1	4.6	1800	0	2	* Cbc	C	cbew	cbew	
	Guernsey ...	1028.0	-6	NW	2	bc	64	75	7	5	4	2	4.6	1800	1027.3	-10	WNW	1	bc	63	85	7	5	4	2	1	4.6	1800	0	2	* Cbc	C	cbew	cbew	
6	Pembroke	1028.4	-14	WNW	3	C	61	85	7	8	6	7.8	7.8	2500	1026.1	-6	W	4	C	59	92	7	7	-	3	7.8	9	2500	0	2	* Cmo	Cmo	cbew	cbew	
7	Holyhead (Valley)	1026.0	-6	WSW	4	C	63	75	7	5	-	2.3	9+	3000	1023.1	-16	WSW	4	C	60	85	7	5	-	10	10	2800	0	2	* C	C	cbew	cbew		
	Chester (Sealand)	1024.9	-6	WNW	4	Zo	66	55	6	5	7	4.6	10	1500	1022.7	-12	W	4	C	63	65	7	5	7	6	2.3	9	2500	0	*	Cmo	Ccmo	cbew	cbew	
8	Manchester ...	1024.8	-6	WN	5	C	63	65	7	5	3	7	7.8	10	3000	1022.1	-18	W	4	Zo	61	75	6	5	3	-	9	9+	4000	0	*	Cmo	Ccmo	cbew	cbew
10	Spurn Head ...	1021.8	-8	WNW	5	C	64	65	6	7	-	9+	9+	1500	1019.5	-8	WNW	5	Zo	62	75	6	4	7	-	4.6	7.8	2500	0	3	* C	Cmo	cbew	cbew	
	Catterick ...	1021.7	-8	W	4	C	65	65	8	1	-	4.6	10	6300	1019.2	-10	W	4	C	60	85	7	5	7	-	7.8	10	4000	0	*	Cmo	C	cbew	cbew	
	Tynemouth ...	1020.6	-4	W	6	C/pr	62	75	6	5	-	9	9	2500	1018.4	-14	W	6	C	60	92	6	8	-	9	9+	2200	0	3	* Cmo	C	cbew	cbew		
11	St. Abbs Head	1017.8	-10	WNW	5	C/pr	60	85	8	8	7	7.8	10	2500	1015.7	-2	W	4	C	60	75	8	5	7	-	7.8	9	3000	0	3	* Cpr	Cpr	cbew	cbew	
	Leuchars ...	1017.4	-6	WSW	5	C	64	75	9	5	7	4.6	9+	3100	1016.1	-2	W	3	C	61	65	9	8	7	4	2.3	7.8	3200	0	*	Cmo	Cbc	cbew	cbew	
12	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*	Cmo	Cbc	cbew	cbew	
	RAF (Abbots L)	1023.8	-6	WNW	4	ido	60	85	7	5	2	9+	10	1500	1018.0	-8	WNW	5	C	59	75	8	5	9	1	4.6	9	2000	1	*					



Abridged observations of additional stations in the

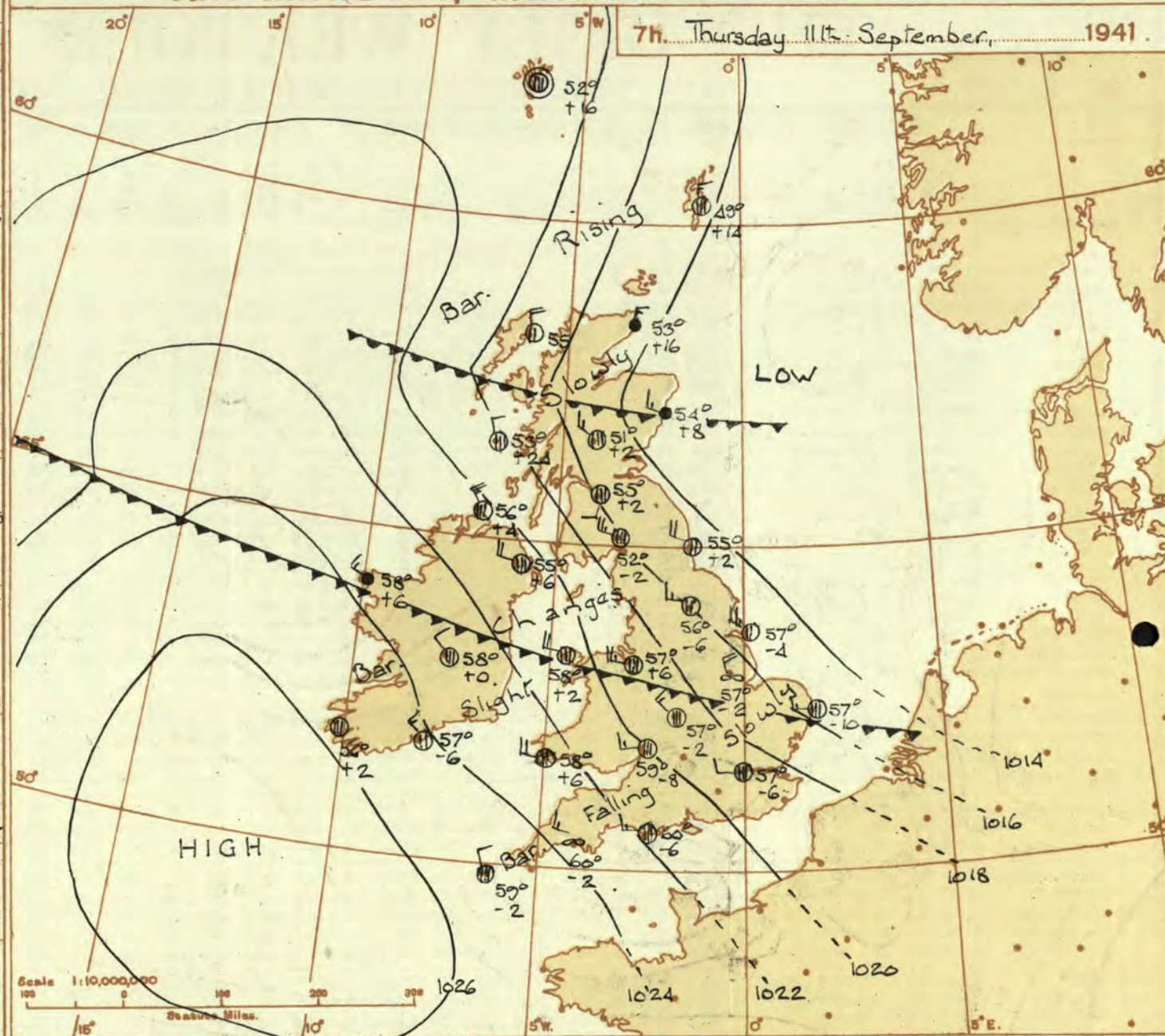
## AVIATION WEATHER CODE

13h. G.M.T. 10th. Sept....18h. G.M.T.								01h. G.M.T. 11th. Sept....07h. G.M.T.								
III	C <sub>M</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>M</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>M</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>M</sub>	ww	Vh <sub>N</sub>	DDFWN
109	53	02855	23556	62	6	3835	22488	5-	02747	26367	5-	02856	02486			
115	57	81734	22487	52	8	1635	26488	52	81735	26488	52	81834	32387			
203					5-	02838	20458	6-	51838	20458	6-	51838	28458			
206					86	02966	24426	8-	02857	24227	8-	02855	36385			
210					83	81855	24486	8-	81867	24857	57	61866	31288			
220	83	25846	26387	57	25846	26487					80	81747	28587			
230	87	02944	28466	83	10846	26327	8-	25847	59587	2-	81745	26585				
245				44	01964	26415	5-	02856	22116	67	22955	22367				
260	5-	05635	55548	53	02064	24325				5-	02767	22427				
278	57	02765	23328	52	02857	25468	5-	02867	26457	8-	02855	26425				
279	57	05658	21458	52	58437	22458	03	01800	24324	57	02856	24386				
285	57	51636	26528	5-	62638	28568				23	02635	26516				
288	51	02875	26628	52	61766	22467	14	01854	22324	53	02864	23315				
575	57	02756	24528	57	00754	24428	62	52637	26458	57	01854	28455				
801	53	02766	25527	57	02765	25427	52	05655	50558	8-	81757	61587				
321	57	05663	59427	57	05663	27427	51	05655	24365	54	02765	26326				
299	5-	02747	*	5-	62648	22268	5-	05664	24414	57	01764	24316				
292	51	02865	26428	57	61655	24567	53	05665	25467	5-	02965	25325				
310	--	02638	24518	--	02648	24528				--	02648	24518				
614	5-	05668	26328	57	05674	24427	57	066-5	55228	53	02664	28357				
333	50	02763	24316	5-	02765	22317	5-	02758	53318	5-	05647	26527				
334	--	03657	24328	--	03647	24328				--	02646	24217				
340					5-	02855	26227	5-	05658	22218	53	21845	28356			
136	07	05670	23416	57	05664	24428				83	05644	28485				
336					14	01762	28413				52	63642	28468			
360	5-	05657	24327	57	24228	22561	05	01700	22315	57	05644	26316				
368				07	02761	24227										
379	5-	02757	28327	50	02764	28327	53	05654	28317	50	02755	28316				
390	13	02645	26427	01	05670	24328	03	05690	24314	53	05664	23325				
382	5-	02847	22327	53	02765	22116	03	05690	23126	50	05656	23317				
438	5-	02548	24228													
430	57	02767	20258	54	02753	20127	03	05690	26115							
400	54	02744	30315	5-	05636	30327	5-	05638	29228	54	05524	28226				

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

## AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 11th. September, 1941.



## DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 11th. September, 1941.

1 S.E. England	Moderate W.-N.W. wind; mainly cloudy, occasional slight rain locally; some bright intervals; rather cool.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light to moderate N.W. wind; mainly cloudy, but bright intervals; rather cool
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Moderate N.W. wind, fresh locally, veering north; mainly cloudy, occasional slight rain, bright intervals; cool.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Moderate N. to N.E. wind; cloudy; occasional showers, bright intervals; cool.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 7-14.
18 N. E. Ireland	
19 S. E. Ireland	As 5-6.
20 S. W. Ireland	

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

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

## GENERAL INFERENCE.

A large anticyclone persists to S.W. of the British Isles, and minor troughs of low pressure are moving Southwards over Great Britain. There will be occasional slight rain in the East and North, and weather will be mainly cloudy, but with bright intervals. It will be cool generally.

## FURTHER OUTLOOK.

Fair in the Southwest; occasional showers but bright intervals in the North and East; rather cool generally.

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

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

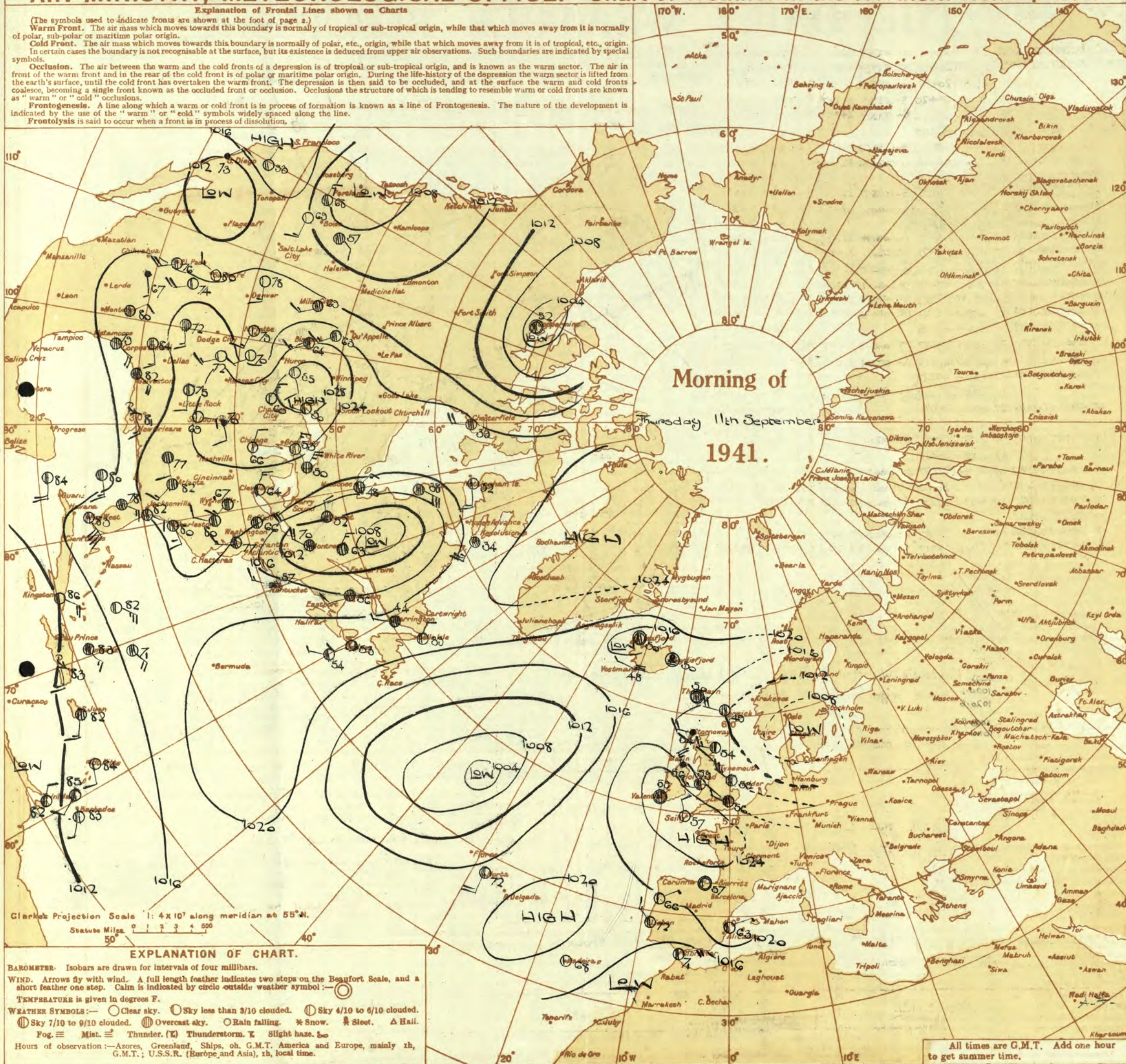
6269/4120. No. 5176. D. 8034. 6p. 848. 3300. 8/41



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

 BRITISH SECTION  
 Thursday 11th September 1941.  
 No. 29148

OBSERVATIONS at 1 hr. G.M.T. 11th September															OBSERVATIONS at 7 hr. G.M.T. 11th September															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					State of Ground.	Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs.			
					Direc.	Force.					Form.	Amount.	Height of Base (feet).	Direc.	Force.			Form.	Amount.					Height of Base (feet).	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.					
																																			0-12		0-10	0-9	0-12
1	London (Kew)	18													1018.1	-6	WSW	2	Z	58	85	6	5	-	-	7.8	7.8	2500	1	*	64	56	44	-	-	0.1			
	Croydon	217	1021.5	-6	WNW	1	c	55	85	7	5	-	-	9	10	3000	1019.0	-6	W	2	C	57	85	6	-	3	3	0	9	-	0	*	63	54	50	-	-	0.4	
	S. Farnborough	226	1021.7	-10	WNW	1	Z	54	85	6	5	-	-	7.8	9.4	4900	1019.2	-6	W	3	C	58	85	6	-	3	8	0	9	-	1	*	64	53	48	Tr	-	0.5	
	Boscombe Down	417	1022.8	-3	WNW	3	Z	55	92	6	-	7	-	0	9.4	-	1020.4	-6	WNW	3	Z	56	92	6	-	-	2	0	9.4	-	0	*	64	54	50	0.2	Tr	0.8	
	Thorney Island	10	1022.2	-8	W	2	bc	55	92	6	-	3	-	0	4.6	-	1020.1	-10	WNW	2	C	56	97	6	5	7	-	2.3	9.4	7200	0	*	65	52	47	Tr	-		
	Lymington	346	1021.0	-14	WSW	1	Z	53	92	6	5	-	-	9.4	9.4	6000	1018.8	-6	WNW	3	Z	55	92	6	5	7	1	7.8	9	6000	0	*	65	50	48	Tr	-	0.6	
	Manston	154	1020.2	-14	WSW	1	Z	55	92	6	5	-	-	9.4	9.4	4500	1017.5	-6	WNW	3	Z	56	85	6	5	-	-	9.4	9.4	4000	0	*	64	51	48	-	-	1.2	
2	Shoeburyness	11													1017.9	-2	W	3	C	57	85	5	5	-	-	9	9	2500	0	*	65	55	48	-	Tr	0.2			
	Felixstowe	15	1018.8	-18	WSW	3	Z	58	85	6	5	3	-	2.3	9	5700	1016.1	-10	W	4	bc	59	85	6	5	-	-	10	10	2000	1	2	65	56	54	-	Tr	0.3	
	Gorleston	5	1017.8	-18	WSW	3	Z	58	85	6	6	-	-	10	10	1500	1015.3	-10	W	3	C	57	92	6	5	-	-	10	10	1100	1	2	64	56	54	-	Tr		
	Mildenhall	19	1018.6	-18	WSW	3	Z	56	97	6	5	7	-	7.8	9.4	4000	1016.2	-6	W	4	bc	58	92	6	5	7	-	4.6	9	1800	0	*	66	55	52	-	Tr	0.0	
	Cranwell	240	1018.2	-14	WSW	4	Z	58	75	6	5	-	-	9.4	9.4	2500	1016.2	-2	NNW	4	Z	57	75	6	5	3	-	2.3	4.6	3000	0	*	66	56	55	-	-	0.2	
3	Birmingham	535													1018.4	-2	NW	3	C	57	85	6	5	-	-	9	9	1500	1	*	64	54	51	-	-	1.2			
	Upper Heyford	408	1020.8	-16	W	3	Z	56	92	6	-	7	-	0	9	-	1018.5	-6	WNW	3	C	57	85	7	5	6	9	4.6	7.8	2000	0	*	64	53	50	-	-	*	
4	Ross-on-Wye	223													1019.6	-8	WSW	3	C	59	85	8	5	-	2	9	9.4	2500	1	*	66	55		-	-	2.6			
5	Hartland Point	299	1023.8	-12	WNW	3	C	60	97	7	5	1	-	7.8	10	1500	1022.4	-2	WNW	3	C	59	92	7	5	4	9	2.3	9	1500	0	3	64	58	55	-	-	3.9	
	Bristol	209	1021.9	-10	WNW	3	Z	56	92	5	-	3	8	0	9	-	1021.0	-2	WSW	3	Z	57	85	6	5	7	6	Tr	9.4	2600	0	*	67	54	48	-	-	3.2	
	Portland Bill	32	1023.1	-10	SW	3	bc	60	92	8	5	-	-	4.6	4.6	4000	1021.3	-6	W	3	C	60	92	7	5	-	-	10	10	2500	1	2	65	58		-	*		
	Plymouth	82	1015.4	-6		0	bc	54	97	6	-	-	7	0	4.6	-	1023.5	-2	NW	3	Z	60	92	6	5	4	2	2.3	7.8	1500	0	3	68	54	49	-	-	6.0	
	The Lizard	240	1025.8	-2	NW	1	C	57	92	7	5	2	-	9	10	1500	1024.5	+4	NW	3	m	58	97	6	5	-	-	10	10	400	0	2	68	56		Tr	-	7.6	
	Scilly (St. Mary's)	163	1026.3	-4	NW	2	b	57	97	6	-	-	-	0	0	-	1024.2	-2	NNW	2	C	59	97	6	5	2	-	7.8	9.4	1200	0	2	64	51		-	-	9.2	
	Guernsey	175																																					
6	Pembroke	142	1023.8	-12	WNW	3	C	59	97	6	8	7	-	4.6	9	2500	1022.4	+6	WNW	4	bcg	58	92	6	2	6	-	4.6	4.6	2500	0	3	62	52		-	-	4.0	
7	Holyhead (Valley)	26	1021.0	-14	W	5	C	59	85	7	5	-	-	10	10	3000	1020.2	+2	WNW	4	C	58	75	7	5	4	6	7.8	9	1500	1	3	65	56	54	-	Tr	*	
	Chester (Sealand)	16	1019.4	-18	W	4	Z	62	65	6	5	7	-	7.8	10	3100	1019.0	+6	WNW	5	C	57	75	8	5	3	6	7.8	9.4	1500	1	*	67	57	52	-	0.3	3.9	
8	Manchester	70	1019.1	-20	W	4	bc	58	92	6	5	-	-	10	10	1200	1017.9	-2	W	4	Z	56	85	6	5	3	9	7.8	9	2000	1	*	64	55	53	-	2	0.8	
10	Spurn Head	29	1016.9	-10	WNW	5	Z	59	85	6	4	-	-	9.4	9.4	1500	1015.1	-4	NW	5	bc	57	75	7	1	4	2	2.3	4.6	5700	1	3	65	56		-	5	1.7	
	Catterick	175	1016.6	-10	NW	3	C	59	85	7	5	3	-	2.3	7.8	5500	1015.0	-6	WNW	3	bc/pr	56	75	9	5	-	1	4.6	4.6	4000	0	*	66	53	41	-	-	0.7	
	Tynemouth	108	1016.6	-12	W	5	bc	55	85	7	2	4	-	2.3	2.3	2500	1014.9	+2	WNW	4	bc	55	75	8	8	3	-	4.6	4.6	2800	0	3	63	54	51	Tr	-	*	
11	St. Abbs Head	280	1013.1	-8	W	5	bc	53	65	8	4	4	-	2.3	2.3	2500	1013.4	+8	W	4	C	54	85	8	5	4	-	4.6	9	2500	0	3	62	52		0.6	Tr	*	
	Leuchars	36	1014.1	-10	W	3	C	54	75	8	5	7	-	7.8	9.4	3500	1013.9	+6	WNW	4	C	55	85	9	5	3	-	4.6	7.8	3500	0	*	66	51	41	-	Tr	0.0	
12	Renfrew (Abbots I.)	19	1016.4	-10	W	3	bc	56	75	6	8	-	-	9.4	9.4	1500	1016.2	+2	SSW	2	bc/pr	55	85	7	8	-	-	9	9	1600	1	*	63	53	49	0.1	Tr	0.0	
	Eskdalemuir	794															1015.9	-2	WNW	5	C	52	85	8	5	-	-	9.4	9.4	1500	1	*	59	50	47	Tr	0.2	0.0	
	Point of Ayre	30	1019.1	-4	NW	4	bc	56	97	7	6	7	-	4.6	10	2000	1018.9	+2	NNW	5	C	57	85	8	5	-	-	9	9	2000	1	4	64	55		Tr	0.3	0.2	
13A	Tiree	22	1018.2	-6	WNW	4	bc	54	92	8	8			7.8	7.8	1800	1018.1	+6	NNW	4	bc	55	85	8	8	-	-	4.6	4.6	1800	0	4	62	53		2	1	0.5	
13B	Stornoway	80	1013.9	-8	W	4	pr	54	97	7	8	7	-	7.8	9.4	1500	1016.8	+2.4	NNW	2	C	53	97	7	8	7	-	7.8	9.4	1000	1	1	60	52		2	1	0.9	
15	Dalwhinnie	1176															1015.4	+2	NW	3	C	51	85	8	5	3	-	4.6	7.8	1500	1	*	62	48	45	0.1	0.6	2.4	
	Aberdeen	79															1013.0	+8	WNW	3	bc	54	92	6	6	-	-	9.4	9.4	700	1	2	64	51	50	Tr	1	2.3	
	Wick	119	1012.5	-2	WNW	3	bc	53	97	7	5	-	-	9.4	9.4	2500		+16	NNE	3	bc	53	97	8	5	-	-	10	10	800	1	4	59	51	50	0.3	3	*	
16	Sumburgh	30	1011.0	+6	NE	4	bc	51	97	5	5	-	-	10	10	500	1014.0	+14	N	3	C	49	65	9	5	-	-	9.4	9.4	5000	*	*		*		*	*		
17	Blackod Point	18	1023.6	-8	W	5	bc	59	97	7	6	-	-	10	10	1500	1023.6	+6	NW	3	d	58	97	6	6	-	-	10	10	800	1	2	64	57		-	0.6	*	
18	Malin Head	84																																					



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Friday 12th September 1941.  
No. 29149

OBSERVATIONS at 13h. G.M.T. 11th September.														OBSERVATIONS at 18h. G.M.T. 11th September.														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.							
				Dir.	Force. 0-12 (4)				Form.	Amount. Low 0-10 Med. 10-10 High 10-10 (11) (12) (13)	Height of Base (feet) (14)	Dir.	Force 0-12 (18)			Form.	Amount. Low 0-10 Med. 10-10 High 10-10 (23) (24) (25)				Height of Base (feet) (28)	7h.—13h. 11h. (37)	13h.—18h. 11h. (38)	18h.—11h. to 12h. (39)	11h.—7h. 12h. (40)										
1	London (Kew) ... Croydon ... S. Farnborough ... Boscombe Down ... Thorney Island ... Lympne ... Manston ...	1018.1 1018.2 1018.4 1019.5 1019.0 1017.7 1016.9	-4 -2 -6 -10 -6 -6 +2	NWN WNW NWN NWN NWN NWN NW	3 4 3 4 4 5 4	c c c c c bc c	65 66 66 65 68 64 62	55 55 65 65 55 55 65	8 8 8 8 2 3 8	7 - 7 3 6 6 -	7-8 7-8 4-6 4-6 7-8 2-3 9+	2500 2000 2500 1500 4000 2200 4500	1019.7 1019.1 1019.7 1020.5 1019.7 1019.0 1018.1	+12 +2 +12 +8 +8 +12 +10	NW WNW NW NNW NNW NW NWN	3 3 3 3 3 2 3	c c c c c c c	62 61 61 61 64 56 61	65 65 65 75 65 85 75	7 7 8 8 4 7 6	7 2 4 4 7 4 7	4 4 3 4 2 6 2	4-6 2-3 2-3 7-8 4-6 1 4-6	7-8 3 4-6 7-8 7-8 7-8 3	2500 2800 4000 2500 4000 4000 5000	0 1 0 0 0 0 0	*	bccmcy czoc mocbc c cwc moc cmcy cmoc	cbccyc cyc cybc c cbc cbc cmo	bbbw czob bbbw c,b.e.b bw ebbmemo beemo	bbeemo ccmo bwc bfg,c bw cmo cmo				
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1017.5 1016.1 1015.8 1016.5 1016.6	+2 +2 +4 -1 +2	NW WNW NNW NWN NWN	4 5 4 3 3	c c c c c	63 63 61 60 62	65 65 75 85 65	8 8 7 7 7	5 - - 3 -	9+ 10 7-8 7-8 4-6	3700 3500 1600 2000 3000	1018.2 1017.3 1017.6 1017.9 1018.4	+6 +10 +10 +14 +12	NWN N'E NWN NW NW	2 4 3 1 2	c c c c pr	60 59 59 59 58	75 73 75 92 85	7 8 7 5 7	6 8 3 6 3	2 3 - - -	4-6 3 4-6 7-8 9+	7-8 3+ 7-8 9+ 9+	4000 2500 3000 2500 2000	0 1 0 0 1	*	cmoc ir.id.c cq.prc cmobcc bccprc	c cpr.cpr cq.bcc cpr.c cpr	emo ebbmemo beebw cpr.bemo cpr	cmo cb,c bccpr ebbmemo cmorrio				
3	Birmingham	1019.7	+2	NW	4	c	60	65	8	8	-	3	3	2500	1020.5	+4	NNW	4	b	57	75	7	1	4	9	Tr	1	2500	1	*	cbcc	cbcc	bbw	b.c	
4	Upper Heyford	1018.4	+2	NW	4	c	64	55	9	7	-	8	7-8	2500	1019.5	+10	NW	5	bc	57	75	9	4	3	4	2-3	4-6	2500	0	*	cbey	cbey	bbbmemo	bcmec	
	Ross-on-Wye	1019.4	0	NWN	5	bc	64	55	9	1	4	2	2-3	4-6	4000	1021.0	+10	NNW	3	c	60	75	8	5	3	-	7-8	7-8	4000	0	*	cbcc	cbcc	bbw	bcmec
5	Hartland Point	1022.6	-2	WNW	3	c	60	92	7	5	6	-	4-6	9+	2500	1022.8	+2	WNW	3	bc	60	92	7	2	6	-	2-3	4-6	2000	0	3	c	bc	bbw	beebw
	Bristol	1020.3	-8	NW	4	c	65	55	9	1	3	6	2-3	7-8	2500	1021.4	+10	NW	4	bc	60	65	9	8	4	3	2-3	4-6	3000	0	*	cmowc	cbcc	bbw	bbw
	Portland Bill	1021.2	-4	NW	4	c	63	92	7	4	-	10	10	2500	1021.1	+4	WNW	3	bc	62	85	8	1	-	-	4-6	4-6	4000	1	3	c	cbcc	b	bcmec	
	Plymouth	1022.9	-6	NNW	4	c	65	75	8	7	-	1	7-8	1500	1023.2	+2	NNW	4	c	63	75	7	5	-	-	7-8	7-8	3000	0	3	cmobcc	c	beebw	bcmec	
	The Lizard	1024.3	0	NW	4	bc	64	75	6	8	-	4-6	4-6	1300	1024.0	+2	NNW	4	bc	62	85	7	8	-	-	2-3	2-3	2500	0	2	bcmzo	bc	beebw	bew	
	Scilly (St. Mary's)	1024.8	-4	NNW	3	c	64	85	6	5	-	9+	9+	1200	1024.8	0	NW	3	b	62	85	6	-	-	-	0	0	-	0	3	c	cbcc	bbw	bew	
6	Pembroke	1023.6	0	NNW	4	cq	63	85	6	2	6	-	4-6	7-8	2500	1023.4	+2	NW	2	bc	60	75	8	2	6	-	2-3	2-3	3000	0	2	bcmog	cbcc	bbw	bcc
7	Holyhead (Valley)	1021.2	+6	WNW	5	cpr	62	65	3	8	4	2	4-6	7-8	3500	1024.6	+4	NW	5	bc	60	85	8	2	6	-	2-3	2-3	3000	0	3	c	bc	bbw	cpr
	Chester (Sealand)	1019.8	+6	WNW	5	cpr	58	75	8	8	-	9+	9+	2000	1020.3	+10	NNW	4	bc	59	75	7	8	3	-	4-6	4-6	2100	0	*	cpr.g	cpr.g	beemo	cmoprc	
8	Manchester	1018.6	+2	NNW	5	cpr	61	75	8	8	6	-	9+	9+	2000	1019.8	+10	NNW	4	bc	59	85	7	2	3	-	1	4-6	2200	1	*	cpr	cbcc	bcmec	cmoprc
10	Spurn Head	1015.1	+4	NNE	3	c	59	75	7	8	6	-	4-6	9+	4000	1017.8	+10	N	5	c	57	85	7	8	6	2	4-6	7-8	4000	1	3	cpr	c	c	o
	Catterick	1016.6	+6	NW	3	c	63	55	9	5	7	-	4-6	9+	2500	1019.2	+12	NE/N	1	z.	57	75	6	5	3	1	4-6	9	3000	0	*	bccy	cycprcm	cm.prcm	cirmoc
	Tynemouth	1016.8	+16	N	5	c	57	85	8	8	4	-	4-6	7-8	3000	1019.2	+20	N	4	c	55	85	8	8	-	-	7-8	7-8	3000	0	3	bccp	c	e	c
11	St. Abbs Head	1016.3	+22	N	2	c	56	85	9	5	2	-	2-3	7-8	2500	1018.8	+6	-	0	c	53	85	8	5	4	-	7-8	9	3500	0	2	c	c	c	c
	Leuchars	1016.8	+18	E	3	c	61	75	9	8	-	7-8	7-8	3100	1019.1	+12	S	2	c	56	75	8	8	7	1	7-8	9	2800	0	*	bccprbc	cprc	c	c	
12	Bentley (Abbots L.)	1017.9	+10	NNW	5	bc	64	65	9	7	-	1	2-3	2-3	2500	1019.2	+10	NNW	4	c	58	75	9	2	7	6	1	7-8	2500	0	*	cbv	bccyc	cbcc	bcc
	Eske Dalemuir	1017.0	+6	NW	4	c	59	65	8	5	-	3	9	1300	1018.3	+6	NNW	1	cpr	59	85	8	5	-	-	7-8	7-8	2500	1	*	cprbcc	cprbcc	bemo	bmo	
	Point of Ayre	1019.5	+2	NNW	5	bc	61	75	8	2	4	6	2-3	4-6	1600	1020.6	+4	NNW	5	bc	58	85	8	4	3	1	2-3	4-6	2500	0	5	cbcc	bbcc	bcc	c
13a	Tiree	1020.3	+8	NNW	4	bc	59	85	8	7	-	4-6	4-6	2500	1021.8	+6	NNW	3	c	56	85	8	8	3	-	4-6	9	2500	0	4	bc	c	cpr	cpr	
13b	Stornoway	1019.9	+2	N	3	c	58	75	8	5	7	-	7-8	9+	3000	1021.0	+6	NNW	3	c	55	85	8	8	7	-	7-8	9+	2000	1	2	cprc	c	c	c
16	Dalwhinnie	1018.0	+10	N	3	c	55	75	8	5	-	9+	9+	2500	1019.5	+10	NNW	2	cpr	52	85	8	5	-	-	9	5	2500	1	*	cprc	cpr	c	cpr	
	Aberdeen	1017.1	+22	N	4	c	56	75	8	4	-	9+	9+	1900	1019.1	+10	NNW	2	c	53	65	7	4	3	3	7-8	7-8	2500	1	2	cpr.mc	c	c	c	
	Wick	1018.4	+14	NW	3	c	55	65	9	5	-	7-8	7-8	2000	1019.7	+10	NNW	3	c	52	75	9	5	-	-	9+	9+	3000	1	5	cd.dcc	c	cbccm	ccdd	
	Sumburgh	1016.4	+14	NNW	4	pr	54	75	9	8	-	9+	9+	2100	1017.6	+6	NNW	3	c	51	75	9	5	-	-	9+	9+	3000	1	*	cprcpr	pr	c	bc	
17	Blackod Point	1024.6	0	NWN	3	id.	58	97	7	6	-	10	10	1500	1025.1	+2	NW	1	c	58	92	8	5	-	-	10	10	1500	1	2	d	c	id.	c	
18	Malin Head	1021.8	+6	NNW	4	c	58	85	8	9	-	7-8	7-8	4000	1022.9	+10	NNW	3	id.	56	92	8	9	8	-	4-6	7-8	4000	0	4	c	cidcc	cpr.prc	c	
	Aldergrove	1021.5	+2	NW	4	c	55	75	9	8	3	6	7-8	9+	2000	1022.7	+4	NNW	4	c	57	85	9	8	4	-	7-8	9	2000	1	*	ccprc	c	cprc	c
19	Birr Castle	1023.8	+4	NW	1	c	63	85	8	5	1	-	7-8	9	2500	1024.2	+4	NW	1	c	61	85	8	8	1	-	7-8	9	2500	0	*	cir.c	c	c	c
20	Valentia Obay. †	1026.2	-2	NW	3	c	62	75	8	5	-	7-8	7-8	2500	1026.1	+2	NNW	4	bc	60	85	8	5	-	-	4-6	4-6	2500	0	3	cwc	cbcc	cbccw	bmcwc	
	Roches Point	1024.2	-4	N	4	bc	68	75	8	1	-	2-3	2-3	4000	1024.5	+6	N	3	bc	63	75	8	3	4	-	2-3	2-3	4000	0	2	bc	bc	bc	c	



Abridged observations of additional stations in the AVIATION WEATHER CODE																
13h. G.M.T. 11h. September				18h. G.M.T.				01h. G.M.T. 12h. September				07h. G.M.T.				
III	C <sub>1</sub>	ww	Vh <sub>h</sub>	DDFWN	C <sub>1</sub>	ww	Vh <sub>h</sub>	DDFWN	C <sub>1</sub>	ww	Vh <sub>h</sub>	DDFWN	C <sub>1</sub>	ww	Vh <sub>h</sub>	DDFWN
105	02956	31426	5	61858	20428	5	02856	26326	5	51857	27227					
1152	81734	04287	54	02944	32285	52	02844	20227	52	81784	28387					
208	02835	32225				5	02938	24328								
2068	81646	08388	8	81748	00088	8	02957	00087	8	02856	08086					
2105	02947	01387	53	02966	31326	5	02967	30317	5	51967	21227					
220				87	02846	27317				80	02747	28327				
2308	02847	24417	82	81947	27388	8	02847	27287	83	02846	27287					
24096	10965	32486	43	02954	04117	53	02954	32117	57	02976	28227					
2608	01965	28215	53	02865	06117	54	05663	00083	5	05667	00027					
2786	02954	28686	84	02866	28427	83	81844	26424	87	02846	27417					
27976	02854	27525	47	01853	28414	44	01854	28225	57	01753	28315					
28523	02855	24617	23	01744	30315				53	02635	32127					
28887	02855	27416	8	05657	02327	5	21446	00066	5	05666	25128					
57553	02957	28327	5	02847	24057	5	02757	28128	53	02853	26226					
80126	02854	61585	23	01964	26324	23	01854	30415	23	02843	28486					
32186	81855	27426				52	25655	28188	5	25658	28128					
29087	01753	26514	83	01753	28413	5	01754	28314	5	02756	28426					
2028	02957	29517	54	01863	01325	5	05658	28188	5	05658	28188					
310	02638	24528								02638	24428					
01426	01753	51425	20	02765	59325	53	05673	20127	5	05668	31128					
33974	02954	28425				5	02854	28327	6	02946	32427					
334				03647	26328					03647	24228					
3408	02958	28428	2	02846	28386	5	02864	28215	53	51845	28267					
13686	25954	29185	86	02845	31387	87	02853	28316	52	28387	20051					
33613	01762	28414	51	01763	26416				14	01763	32314					
35074	02854	60526	74	01763	26324	53	02663	28216	5	05658	26228					
36887	02855	29386	44	01843	28314				5	02857	28317					
37820	02944	61525	43	02954	30415	00	00790	28201	5	02857	28317					
39054	02866	27427	46	02763	27315	5	02747	26217	5	08448	25148					
38927	01864	28425	43	01862	28323	03	00790	28202	5	02867	30327					
4388	02748	22528							5	02647	31327					
430			40	01862	28324	00	00790	28200	54	01872	24113					
40053	05634	27425	53	05626	28327	50	05634	28114	54	00715	02106					

III

ww, W

h, Nh

N

C<sub>1</sub>, C<sub>mf</sub>

V

DD

= Index Number of Station—See M.O. 252 or list issued on 1st of each month.

= Present and past weather—See M.O. 252.

= Height and amount of low cloud—See M.O. 252.

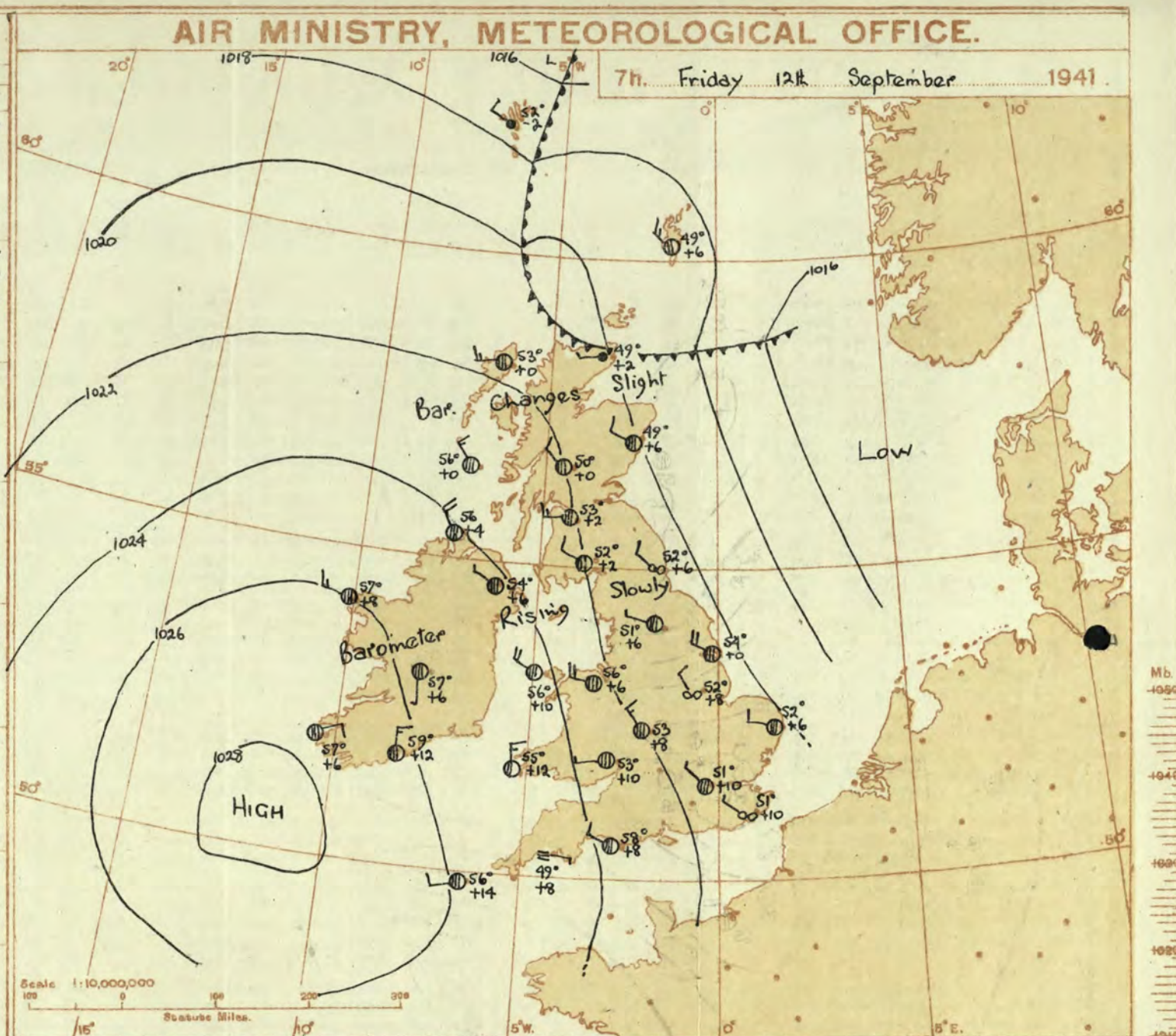
= Total amount of cloud—See M.O. 252.

= Form of low and medium cloud—See page 1.

= Visibility. F = Force of wind—See page 4.

= Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C<sub>1</sub>, C<sub>2</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility. F = Force of wind—See page 4.  
 DD = Direction of wind (8 = E, 18 = S, 24 = W, 32 = N).



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 12th September 1941
1 S.E. England	
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	Light to moderate N.W. winds; generally fair; considerable bright periods especially in western and southwestern districts; average temperature to rather cool.
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Moderate to fresh N.W. winds; mainly cloudy with a few local showers; brighter intervals; cool.
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	Light west to northwest winds; fair or fine; average temperature

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

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

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

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

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

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

#### GENERAL INFERENCE.

An anticyclone centred off our S.W. coasts is likely to persist with fair weather in practically all districts. There will be some light showers in the extreme Northeast.

#### FURTHER OUTLOOK.

No important change.

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

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

0269/4120. No. 5170. D. 2094. Op. 348. 3500. 8/41

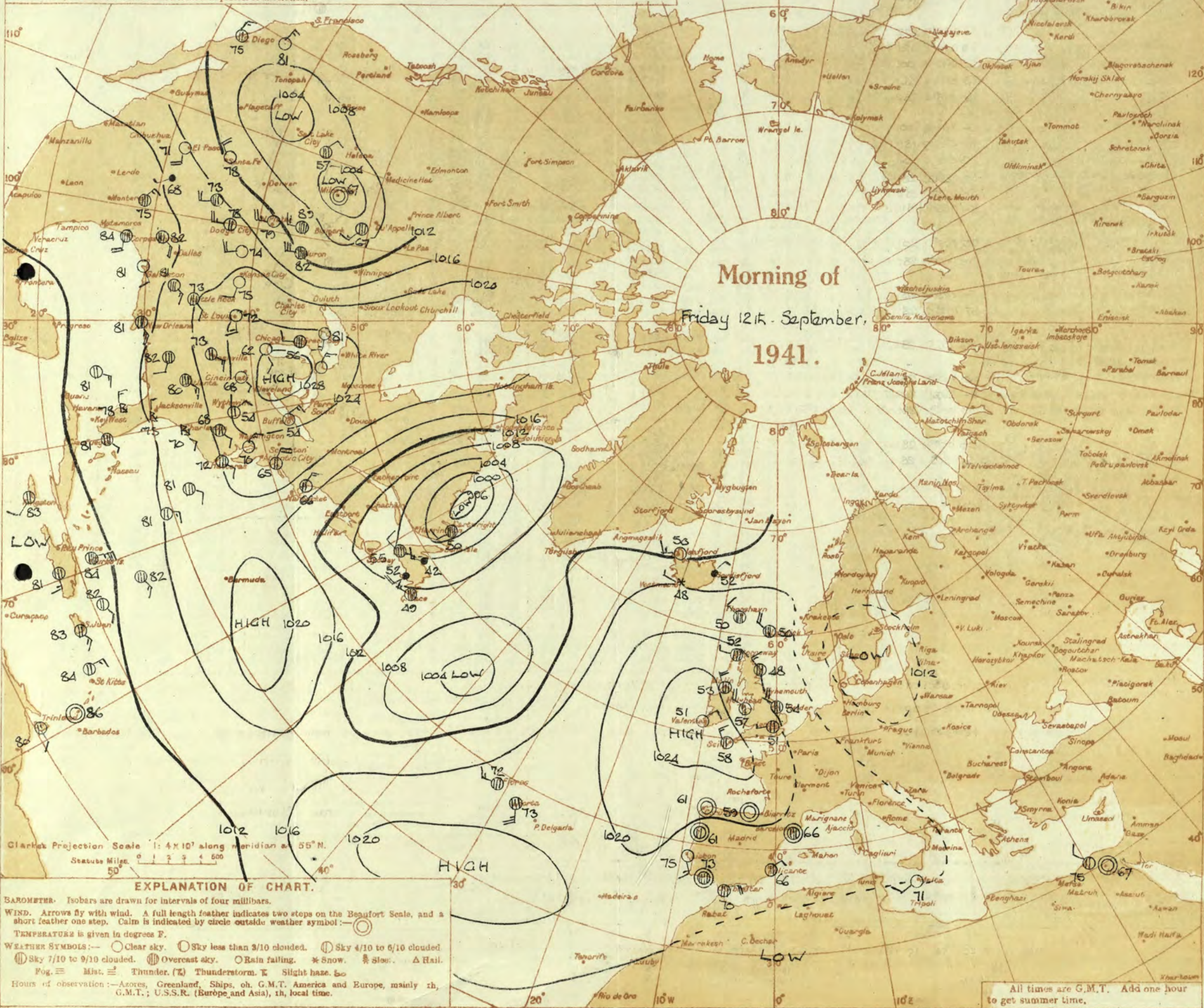


# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

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

Morning of  
Friday 12th September,  
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  
 Friday 12th September 1941.  
 No 29149.

OBSERVATIONS at 1 hr. G.M.T. 12th September															OBSERVATIONS at 7 hr. G.M.T. 12th September															PAST 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.	Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					Dir.	Force.					Low.	Med.	High.	Low 0-10.	Total 0-10.			Height of Base (feet).	Dir.					Force.	Low.	Med.			High.	Low 0-10.	Total 0-10.	Height of Base (feet).	0-9.		9-9.	30-9.	Max. Day 7h-12h °F.	Min. Night 12h-7h °F.	Min. on Grass °F.	Day 7h-12h mm.	Night 12h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															



# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

## SECRET

 Saturday 13th September 1941.  
No. 29150

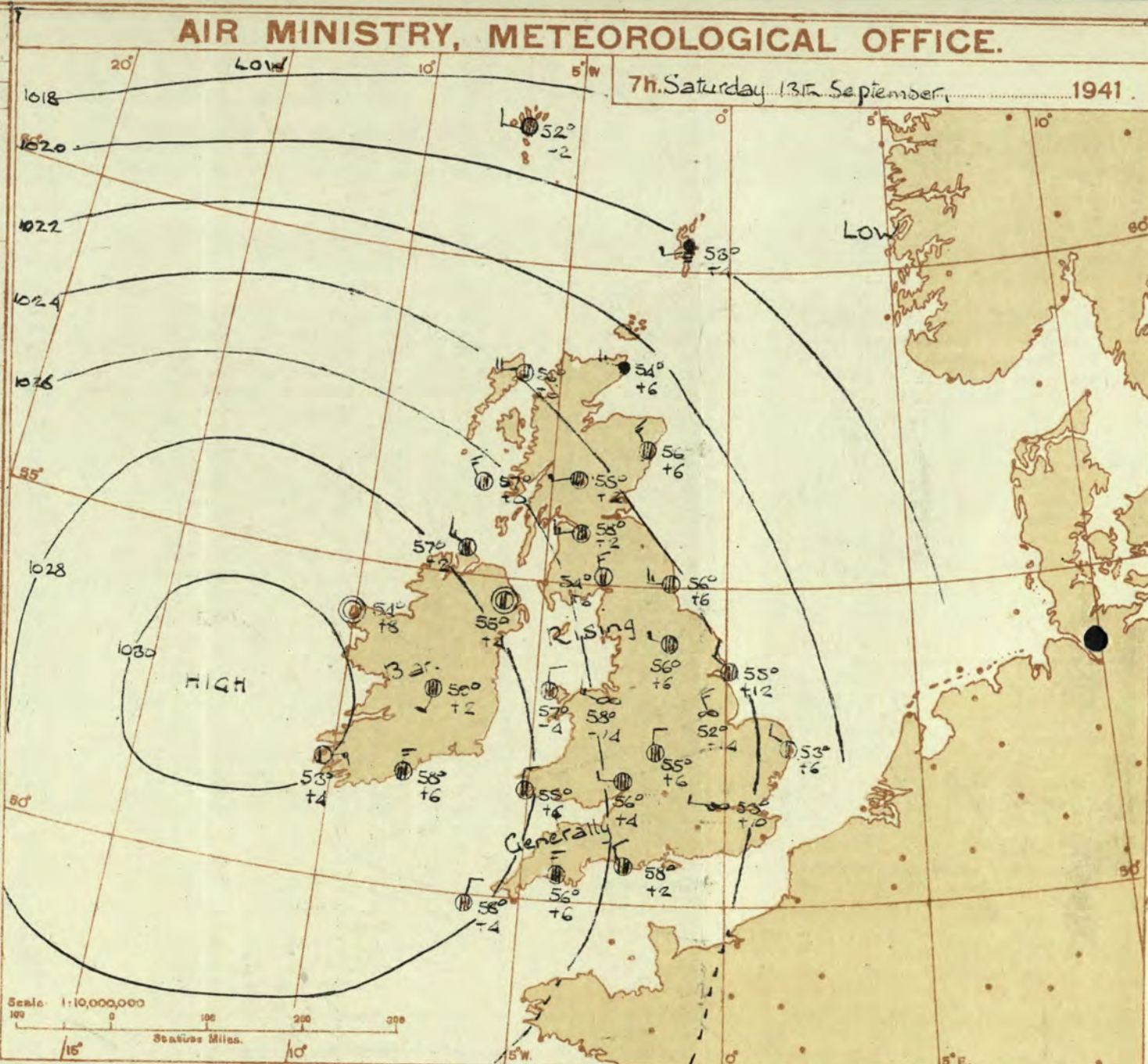
OBSERVATIONS at 13h. G.M.T. 12th September														OBSERVATIONS at 18h. G.M.T. 13th September														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																															
DISTRICT.	STATIONS.	Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	° Humid.	Visibility. 0-9	Cloud.			Height of Base (feet)	Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	° Humid.	Visibility. 0-9	Cloud.			Height of Base (feet)	Barom. at M.S.L.	Change in 3 hours.	WEATHER.																																																																																																																																																																																																																																																																																																																																																																																																																															
				Dir.	Force.					Form.	Amount.	Dir.				Force.	Form.					Amount.	Dir.	Force.				Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.	Form.	Amount.	Dir.	Force.



Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 12th September				13h. G.M.T. 13th September				01h. G.M.T. 13th September				07h. G.M.T. 13th September			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	5-	02057	26327	5-	02846	26386	5-	02748	24368	62	21745	25358			
115	5+	10044	28385	52	81834	24457	-	57003	20389	-	57200	24360			
203															
206	83	02865	26186	83	02965	24225	8-	02967	24487	83	02966	24127			
210	8-	02865	26256	53	02964	22215	5-	02857	23-67	5-	02967	24327			
220	82	04736	27228	5-	51418	26258				57	02644	28428			
230	83	10846	27387	87	02945	27327	83	02864	28227	87	02756	28287			
245	86	25965	28385	86	02855	08227	5-	02757	28227	89	02965	28366			
260	83	02965	26217	73	02965	25216	5-	05668	18125	53	05663	20215			
278	86	01844	27555	87	02846	28-27	5-	02747	26427	57	02843	26385			
279	83	02865	22316	33	01850	27216	57	02853	00026	54	01863	29324			
285	23	01854	28415	5-	02747	28417				5-	02636	26426			
288	8-	05558	06128	53	05663	18127	53	05665	28155	57	05665	22128			
575	52	51836	28358	63	02853	28356	5-	02777	28327	54	02765	26226			
301	26	01854	28425	27	02754	28415	2-	81747	28327	5-	02747	25659			
321	86	02765	28226	5-	02767	32117	55	05664	27327	5-	08418	28128			
299	5-	02767	26427	57	01754	26415	5-	05647	26227	5-	05547	26227			
292	7-	02867	28227	73	01664	21114	53	05656	26327	5-	02966	25126			
310	-	01645	26415	-	01626	26416				-	01644	32314			
614	53	05556	12127	4-	05656	32126	50	05557	26114	06	08490	26116			
333	8-	02968	30428	02	02977	26327	5-	02853	26255	85	01744	28414			
334	-	03757	24228							-	02855	32217			
340	8-	02845	28357	26	00052	29303	5-	51635	24258	5-	02748	30158			
136				56	02773	28325	57	05663	26218	53	05553	28216			
336	51	02863	32316	13	01762	28315				04	01890	08312			
350	86	05654	32227	4-	05668	00028	5-	05577	22267	55	05542	28114			
368	70	02966	32226	40	01863	30315									
379	13	02854	28325	26	00861	28201	03	01790	28315	50	05636	30326			
390	53	02854	32157	53	01774	28124	53	05665	25126	53	08454	26226			
382				46	01862	30215	03	01790	00014	07	05690	24112			
438	02	02745	30345												
430	80	01864	28314	86	05664	32126	5-	05668	00028						
409	50	02956	32326	50	00052	32228	5-	02766	02116	5-	02867	01327			

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



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 13th September 1941
1 S.E. England	
2 E. England ...	
3 E. Midlands ...	Light N.W. wind; fair; variable cloud; rather cool.
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Light or moderate N. wind; cloudy; slight local drizzle; rather cool.
9 N. Midlands ...	
10 N.E. England	As 0-6
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	Light or moderate West wind; cloudy; local drizzle; average temperature.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	Light variable wind; fair; local morning fog; average temperature.
19 S. E. Ireland	
20 S. W. Ireland	

BAROMETER. Isobars are drawn for intervals of two millibars. WIND, WEATHER SYMBOLS, F 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 off West Ireland will maintain quiet mainly fair weather but drizzle will occur locally in the N.W. and extreme North

#### FURTHER OUTLOOK.

Little change

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

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

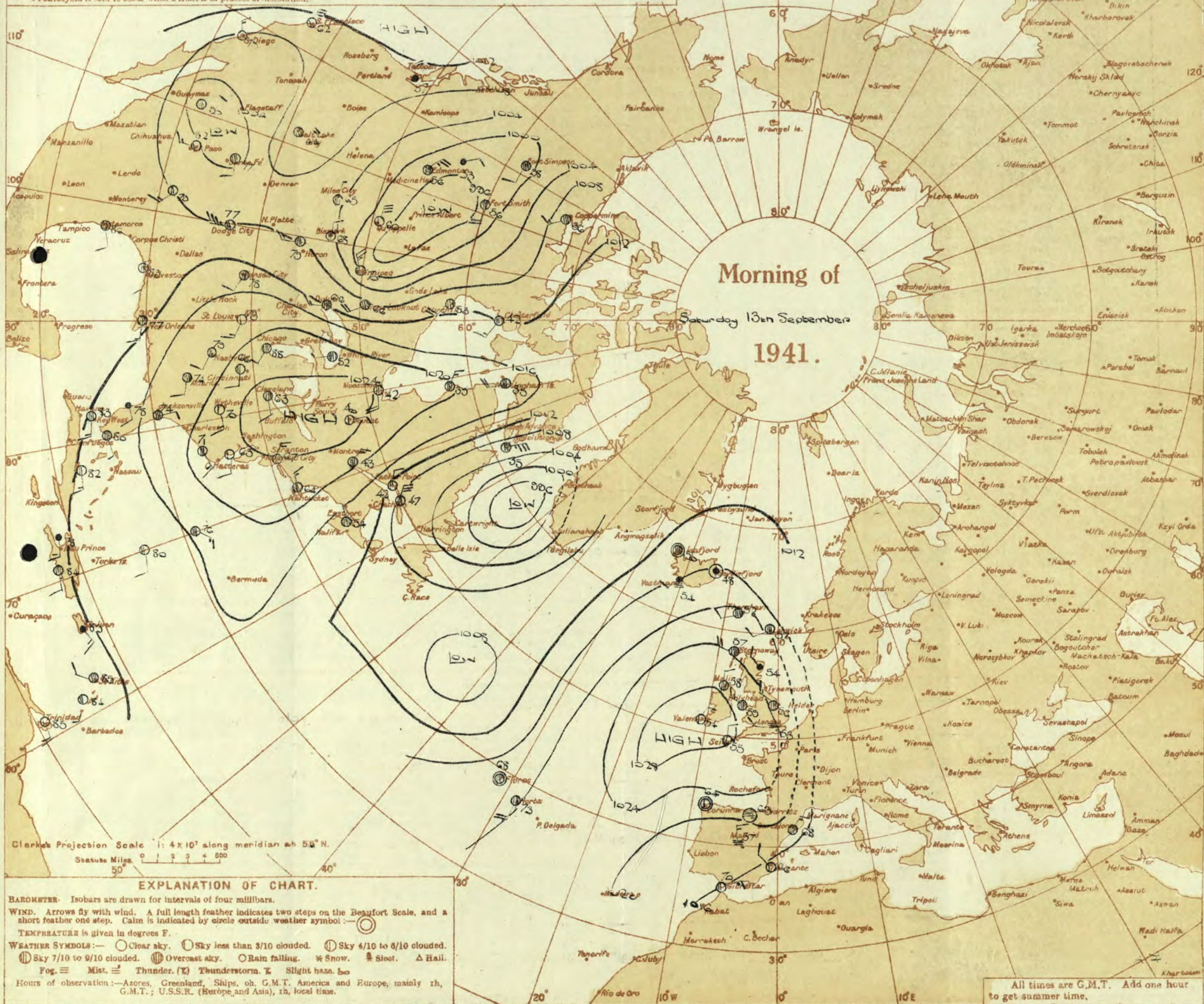
9209/4120. No. 5/76. 0.6034. Sp. 948. 9300. 5/41



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 12th September														OBSERVATIONS at 7 hr. G.M.T. 13th September														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. (6)	Humid. (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. (20)	Humid. (21)	Visibility. (22)	Cloud.					Sea. (30)	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs. (36)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
					Dir.	Force. 0-12 (4)				Low. (9)	Med. (10)	High. (11)	Total 0-10 (12)	Height of Base (feet). (14)			Dir.	Force. 0-12 (18)				Low. (23)	Med. (24)	High. (25)	Total 0-10 (26)	Height of Base (feet). (28)		State of Ground. 0-9 (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)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1	London (Kew)	18	1023.3	+	W	1	53	87	4	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53	87	6	Sc	10	3000	1023.3	+10	W	1	53</



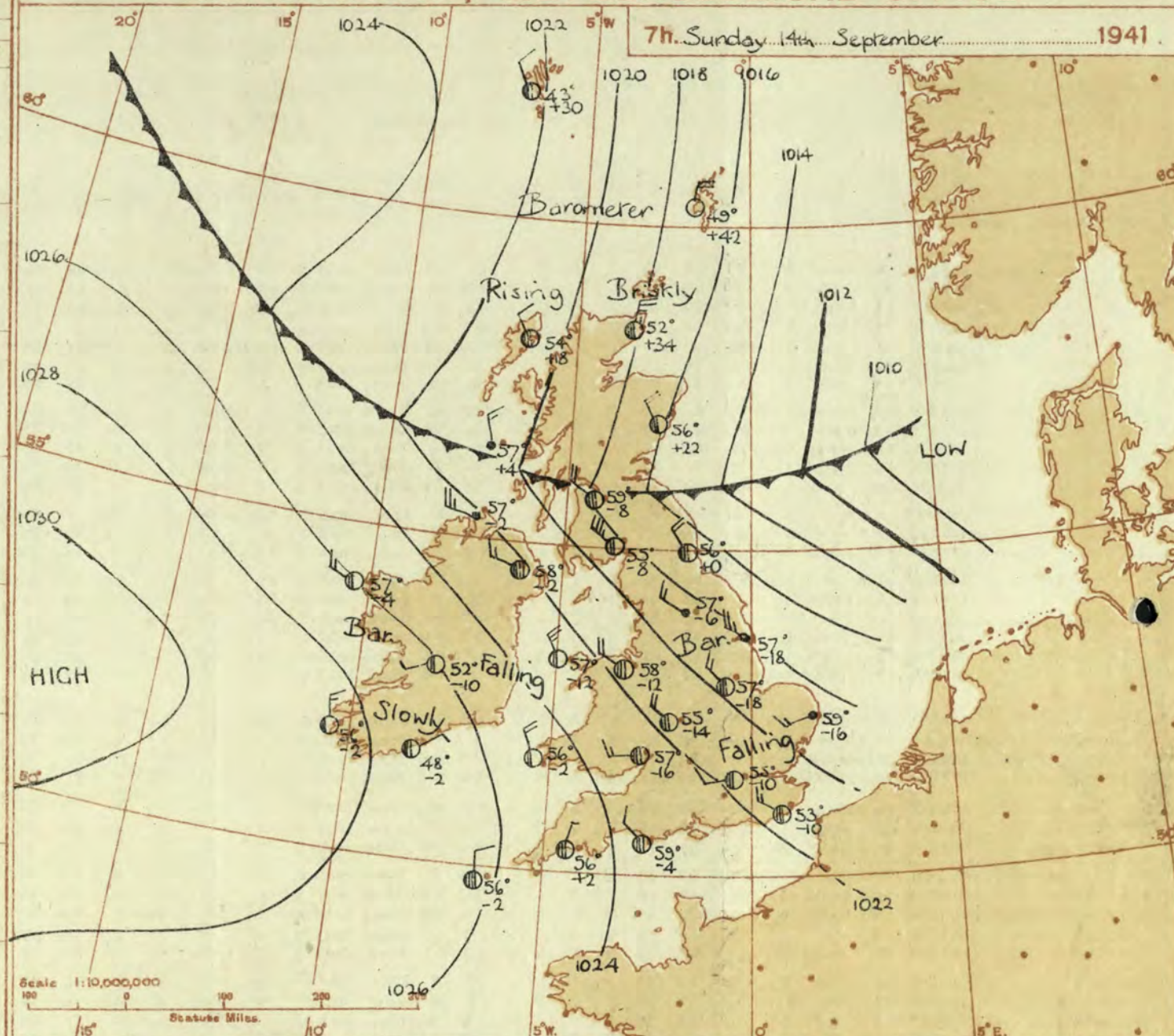
**NOTE.**—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.



Abridged observations of additional stations in the AVIATION WEATHER CODE																			
18h. G.M.T. 13th September				18h. G.M.T.				01h. G.M.T. 14th September				07h. G.M.T.							
III	C	ww	Vh	DDFWN	C	C	ww	Vh	DDFWN	C	C	ww	Vh	DDFWN	C	C	ww	Vh	DDFWN
109	5	51727	24457		5	63538	56658		6	22538	25668		5	02746	02566				
115	--	57209	22359		--	67309	22469		--	67109	20569		52	09838	04368				
203	5	09738	20428						5	62738	20558		5	62738	32368				
206	83	02966	22327	52	22866	24468		52	62846	24468		8	02956	30266					
210	5	02958	22327	57	61954	22568		57	63755	56568		5	02847	28467					
220	51	02645	27218	57	03635	24428						5	25728	28388					
230	77	02853	25225	77	02855	26327		52	22747	22468		61	02736	24367					
245	73	02965	20127	59	02964	28117		52	02777	57568		53	01943	30365					
260	86	01963	28315	44	02863	22317		5	05666	20466		50	01763	20163					
278	54	02753	27555	57	02855	28428		5	02738	26328		5	21528	26558					
279	80	02956	22126	41	02854	27227		52	05655	24328		57	08655	57328					
285	23	01854	28515	53	02745	28517													
288	5	02766	03226	5	02866	06126		51	01663	21328		52	64655	23268					
575	5	02756	26216	56	02844	28325		53	02746	26427		23	01744	28424					
301	24	01953	28314	5	02856	28326		5	02758	28428		5	51634	27558					
321	7	02758	28328	5	02767	00017		54	05671	24328		5	25748	26488					
295	5	05547	28357	57	01754	30215		50	01754	20214		5	64846	24266					
299	4	02857	32327	57	02965	0126		51	05664	23217		52	62657	26367					
310	--	03538	32328																
614	5	05675	28227	57	01565	24218		03	05590	26214		5	22647	55467					
333	53	01843	30414	74	02976	30327		5	02775	26125		57	02755	27327					
334	--	02864	32115	--	03746	32228													
340				43	01752	30315		5	05657	24217		5	02758	26228					
136	77	05655	28388	54	02756	29217		50	08463	20215		62	21256	24368					
335	3	01763	28415	51	22752	24367													
350	32	25655	30287	57	05673	20264						57	02765	22317					
368	20	01854	22414	27	01853	28314													
378	8	05647	30327	54	05652	30312		50	05651	28314		53	02754	26325					
390	7	02764	28326	53	05663	26125		03	08490	24113		57	22667	25348					
382	37	02865	32327	43	25765	25187		53	05364	00015		57	02875	24326					
438	8	02757	32217									5	03658	25328					
430	26	01764	30215	03	02730	30126		00	05590	00010									
400	04	01990	01324	10	00851	31311		5	08636	01217		5	02866	30127					
III = Index Number of Station--See M.O. 252 or list issued on 1st of each month. ww, W = Present and past weather--See M.O. 252. h, N <sub>h</sub> = Height and amount of low cloud--See M.O. 252. N = Total amount of cloud--See M.O. 252. C, C <sub>m</sub> = Form of low and medium cloud--See page 1. V = Visibility. F = Force of wind--See page 4. D = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).																			

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
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 V = Visibility—See page 4.  
 DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

# AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 14th September
1 S.E. England	Moderate westerly wind, freshening and veering northwest. Cloudy with occasional rain; showers and bright intervals later. Rather cool.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light or moderate northwesterly wind. Fair with considerable bright periods. Average temperature.
6 South Wales ...	
7 North Wales ...	As 1-4.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Strong westerly winds, veering northwest or north and moderating. Cloudy with occasional rain. Bright intervals and showers later; cool.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Fresh north to northwest winds, moderating. Cloudy with occasional rain at first, showers and bright intervals later; cool.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Fresh westerly winds veering northwest or north and moderating. Cloudy with occasional rain at first; showers and bright intervals later; cool.
16 Orkneys and Shetlands	
17 N. W. Ireland	As 5-6.
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 the west of Ireland and a trough of low pressure is moving southwards across the British Isles. There will be occasional rain or showers in most districts, with temperatures below average.

## FURTHER OUTLOOK.

Local showers in most districts.

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.

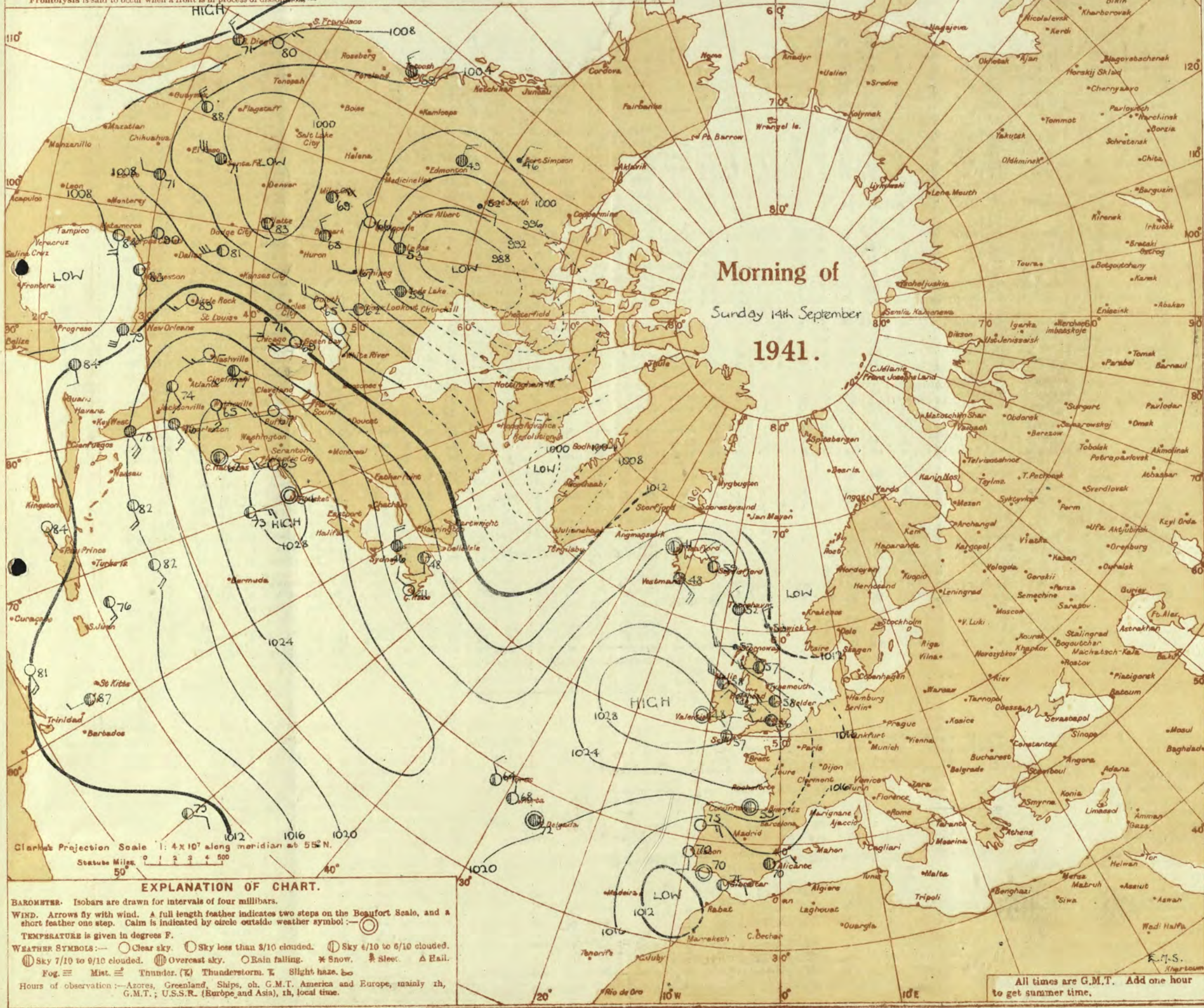
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# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

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





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Sunday 14th September 1941.  
No. 29151

OBSERVATIONS at 1 hr. G.M.T. 14th September															OBSERVATIONS at 7 hr. G.M.T. 14th September															PAST 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.	Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs.									
					Dir.	Force.					Form.	Amount.	Height of Base (feet).			Dir.	Force.					Form.	Amount.	Height of Base (feet).			Low.	Med.	High.	Low.	Med.		High.	Low.	Med.	High.	Max. Day 7h-15h °F.	Min. Night 15h-7h °F.	Min. on Grass °F.	Day 7h-15h mm.	Night 15h-7h mm.
1	London (Kew) ...	18											1021.2	-12	W	2	c/pr	56	85	7	5	7	-	9	10	4000	0	*	64	55	44	-	-	Tr	1.0						
	Croydon ...	217	1024.0	-10	W	1	N	56	97	5	*	*	1021.6	-10	W	2	c	55	85	7	5	-	4	10	5000	0	*	65	53	50	-	-	Tr	1.1							
	S. Farnborough ...	228	1024.7	-6	W	3	N	53	97	5	*	*	1021.6	-14	W/N	3	c	56	85	7	5	3	-	9	9t	4000	1	*	66	52	44	-	-	Tr	3.0						
	Boscombe Down ...	417	1025.5	-6	NW	2	if	52	97	3	-	-	1023.9	-10	W/N	3	c	56	92	7	5	-	9t	9t	4000	0	*	66	51	41	-	-	Tr	6.1							
	Thorney Island ...	10	1024.7	-6	NW	2	N	55	92	5	-	-	1022.6	-10	WNW	3	Zo	56	92	6	5	7	-	7-8	9t	5700	0	*	68	52	43	-	-	Tr	4.4						
	Lymington ...	346	1023.6	-14	-	0	3	48	97	4	-	-	1021.2	-10	WNW	3	Zo	53	97	5	5	-	9t	9t	2500	0	2	63	45	41	-	-	Tr	4.8							
	Manston ...	154	1022.8	-14	-	0	Zo	54	92	6	-	-	1019.8	-14	W/N	2	Zo	56	85	6	7	-	9t	9t	-	0	*	62	53	47	-	-	Tr	2.9							
2	Shoeburyness ...	11											1020.3	-12	W/S	3	yr	56	92	6	6	2	-	9t	10	1500	1	*	65	53	43	-	-	Tr	4.3						
	Felixstowe ...	15	1022.1	-14	NW	2	N	57	92	6	-	-	1018.9	-14	W	4	15	56	92	6	5	2	-	4-6	10	4000	1	2	63	55	52	-	-	Tr	2.9						
	Gorleston ...	5	1022.2	-14	W/S	1	N	55	97	6	-	-	1019.6	-16	WSW	3	yr	59	85	6	6	-	-	10	10	1500	1	2	61	54	53	0.1	0.2	Tr	4						
	Mildenhall ...	19	1022.4	-14	SWW	2	N	53	97	4	-	-	1018.8	-18	WSW	3	yr	55	92	6	5	-	-	10	10	1500	1	*	63	52	44	-	-	Tr	0.2						
	Cranwell ...	240	1022.3	-14	W	3	N	54	92	5	-	-	1018.8	-18	NW	3	Zo	57	85	6	5	7	-	7-8	9t	1300	0	*	64	53	52	-	-	Tr	0.4						
3	Birmingham ...	535											1021.0	-14	NW	4	c	55	85	8	5	7	-	4-6	9t	1500	1	*	64	55	50	-	-	Tr	2.4						
	Upper Heyford ...	408	1024.5	-8	NW	2	Zo	53	92	6	-	-	1022.0	-16	WNW	3	c	55	92	7	5	5	9	4-6	9	5000	1	*	64	52	49	-	-	Tr	1.2						
	Ross-on-Wye ...	223											1022.4	-16	W	3	c	57	85	7	5	-	8	7-8	7-8	4000	0	*	66	53	49	-	-	Tr	1.2						
5	Hartland Point ...	299	1026.2	-4	NNE	2	c	59	85	8	5	4	9	2-3	9	2500	1024.8	-4	NNE	4	c	59	85	8	4	-	5	2-3	9	3000	0	3	61	58	54	-	-	Tr	10.0		
	Bristol ...	209	1025.5	-6	N	0	Zo	58	85	6	-	-	9t	9t	4000	1023.2	-10	W	4	c	56	92	7	-	4	6	0	7-8	-	0	67	55	49	0.1	-	Tr	1.7				
	Portland Bill ...	32	1025.1	-10	N	2	c	61	92	8	-	-	9-8	7-8	2500	1023.1	-4	NW	2	c	59	92	8	5	7	-	7-8	10	4000	0	2	65	58	54	-	-	Tr	1.0			
	Plymouth ...	82	1026.3	-6	-	0	c	54	92	7	5	-	6	2-3	7-8	3000	1025.5	+2	N/E	1	Zo	56	92	7	5	-	8	2-3	7-8	400	0	2	69	53	49	-	-	Tr	7.4		
	The Lizard ...	240	1026.9	-6	NW	3	bc	52	97	8	4	-	1	2-3	4-6	2500	1025.5	+4	N	2	bc	55	97	8	4	-	4-6	4-6	2500	1	2	68	51	49	-	-	Tr	7.4			
	Guernsey (St. Mary's) ...	183	1027.8	-2	NNE	2	bc	57	92	8	5	-	-	2-3	2-3	1500	1026.5	-2	N	2	c	56	97	8	5	4	7	2-3	9t	1300	0	2	65	54	54	-	-	Tr	8.1		
	Guernsey ...	175																																							
6	Pembroke ...	142	1026.7	-8	WNW	1	c	59	85	7	8	6	-	7-8	10	2500	1025.2	-2	WNW	4	bc	56	92	7	8	3	8	2-3	4-6	2500	0	2	63	55	50	-	-	Tr	10.4		
7	Holyhead (Valley) ...	26	1025.0	-12	WNW	2	bc	56	92	8	-	4	-	0	4-6	-	1022.7	-12	NW	5	bc	57	85	7	5	4	9	2-3	4-6	2000	0	3	64	55	50	-	-	Tr	1.0		
	Chester (Sealand) ...	16	1024.0	-18	WNW	3	Zo	58	85	6	5	-	-	9	9	3200	1021.3	-12	WNW	4	cg	58	85	6	5	-	-	10	10	1500	0	*	65	56	51	-	-	Tr	3.4		
8	Manchester ...	70	1023.3	-16	W/N	1	15	57	92	6	5	3	-	9	10	2000	1020.4	-12	WNW	4	c/d	57	92	6	5	-	-	10	10	1500	0	*	67	54	50	-	-	Tr	2.1		
10	Spurn Head ...	29	1020.9	-12	W	4	c	58	85	6	5	-	-	4-6	7-8	4000	1017.4	-18	WNW	5	15	57	85	6	5	2	-	4-6	9t	2500	1	3	60	56	54	-	-	Tr	0.5		
	Catterick ...	175	1020.7	-20	WSW	1	Zo	56	85	6	5	7	-	1	10	2500	1017.8	-6	WNW	3	15	57	85	7	5	7	-	7-8	10	3500	1	*	67	56	49	-	-	Tr	2.7		
	Tynemouth ...	108	1020.3	-20	NW	3	Zo	57	85	6	5	-	-	9t	9t	2500	1017.4	0	NW	4	c/r	56	97	6	5	-	-	9t	9t	1600	1	3	62	56	54	-	-	Tr	4		
11	St. Abbs Head ...	280	1016.9	-28	W	5	c/r	57	85	7	8	4	-	7-8	9t	2500	1015.6	+8	W	6	c	58	85	8	5	4	1	4-6	7-8	2500	1	3	65	50	50	-	-	Tr	1.0		
	Leuchars ...	36	1017.3	-24	WSW	4	c	56	85	8	5	-	-	9t	9t	3200	1016.3	+10	W	2	bc	59	75	9	8	4	-	2-3	2-3	3500	1	*	69	56	52	-	-	Tr	3.5		
12	Renfrew (Abbots L.) ...	19	1020.6	-22	WSW	4	c	58	85	7	5	-	-	10	10	2000	1018.6	-8	WNW	4	c	59	85	8	5	3	-	4-6	7-8	1600	0	*	68	56	53	-	-	Tr	5.8		
	Eskdalemuir ...	794											1016.8	-8	NW	7	bc	55	92	7	6	4	-	2-3	4-6	1500	1	*	63	53	53	-	-	Tr	1.8						
	Point of Ayre ...	30	1023.4	-12	NW	5	c	58	85	7	5	-	-	10	10	3000	1021.4	-6	NW	4	c	58	85	7	6	2	-	7-8	10	1500	0	4	66	56	54	-	-	Tr	2.8		
13A	Tiree ...	22	1021.7	-20	WNW	4	0	58	92	7	5	-	-	10	10	1800	1020.7	+4	WNW	3	doc	57	97	5	5	-	-	10	10	500	1	4	60	52	54	-	-	Tr	0.8		
13B	Stornoway ...	80	1018.0	-10	W	5	rr	56	97	6	5	2	-	9	10	1000	1020.2	+18	NW	2	c	57	97	7	5	7	-	7-8	10	1500	1	1	59	54	54	-	-	Tr	0.0		
15	Dalwhinnie ...	1176											1019.6	0	WNW	1	id	54	92	7	5	-	-	-	-	9t	9t	1500	1	*	60	52	49	-	-	Tr	0.0				
	Aberdeen ...	79											1016.1	+22	NNW	4	c/pr	56	92	6	5	-	-	-	-	9t	9t	700	1	2	67	56	53	-	-	Tr	1.8				
	Wick ...	119	1014.0	-22	W/N	5	rr	56	97	5	-	2	-	10	10	500	1018.2	+24	N/E	5	c	52	97	7	5	-	-	4-6	9t	400	1	*	59	52	51	0.5	3	1.8			
16	Sumburgh ...	30	1019.7	-2	NW	5	Zo	53	97	6	5	-	-	10	10	500	1017.1	+42	N/E	4	c	49	75	8	5	3	-	7-8	9t	1500	1	*	57	48	45	3	11	0.4			
17	Blackod Point ...	18	1027.9	-6	-	0	b	55	97	7	-	-	-	0	0	-	1026.2	-4	W/N	3	bc	57	97	7	2	6	-	2-3	4-6	4000	0	2	63	53	53	-	-	Tr	1.0		
18	Malin Head ...	84	1024.2	-10	WNW	5	c	58	85	6	9	-	-	9t	9t	800	1022.6	-2	W/N	5	DR	57	97	5	3	-	-	9t	9t	450	0	4	61	54	54	-	-	Tr	1.1		
	Aldergrove ...	268	1025.0	-14	W	3	c/d	57	85	7	5	-	-	10	10	1500	1023.2	-2	WNW	3	c	58	85	7	5	-	-	10	10	2000	0	*	64	55	53	-	-	Tr	3.0		
19	Birr Castle ...	173	1027.9	-6	NW	1	b	50	97	8	-	-	-	0	0	-	1026.2	-10	WSW	1	bc	52	97	8	-	-	5	0	2-3	-	0	68	48	44	-	-	Tr	0.1			
20	Valentia Obey. ...	30	1029.1	-8	b	0	b	48	97	8	-	-	-	0	0	-	1028.1	-10	N/E	1	c	48	97	7	5	-	-	9t	9t	1500	0	2	65	46	41	-	-	Tr	10.8		
	Roches Point ...	22	1027.9	-6	N	3	c	58	85	8	5	-	-	7-8	7-8	2500	1026.7																								

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.													
Weather. Temperature. Rainfall. Sun- shine. to Humidity. Visibility. Morning. Afternoon. Night. Day Max. Night Min. on 15h. 2h. 24 hrs. ended 9h. °F. °F. Grass °F. mm. mm. Yesterday. To-day. G.M.T. G.M.T.														Columns 2, 16. The barometric tendency is expressed in tenths of a millibar.													
Kew... .. 18 Croydon ... .. 217 Greenwich (Royal Observatory)... 149 City (Bunhill Row) ... .. — Westminster (St. James' Park) ... 27 Regents Pk. (Botanic Gardens)... 168 Camden Square ... .. 110 Kensington ... .. 80 Hampstead Observatory ... .. 460														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.													
Foreign Observations.														Columns 3, 22.—Code for surface visibility.													
Evening of 15th September														Morning of 14th September													
Past 24 Hours.														Columns 30.—Code for State of Sea.													
Stations.														Columns 34, 35. Tr. = rain has fallen, but amount less than 0.1 mm.													
Reykjavik (18h and 07h) ... .. Lisbon (18h and 07h) ... .. Madrid (18h and 07h) ... .. Cairo (Helicopolis) (18h and 06h) ... .. Toronto (13h and 01h) ... .. Washington (13h and 01h) ... ..														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.													

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

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



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Monday 15th September, 1941.  
No. 29, 152.

OBSERVATIONS at 13h. G.M.T. 14th September

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

PAST 24 HOURS.

District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	°C. (7)	Humid. % (8)	Visibility. 0-9 (9)	Cloud.				Barom. at M.S.L. (16)	Change in 8 hours. (17)	Wind.		Weather. (19)	Temp. °F. (20)	°C. (21)	Humid. % (22)	Visibility. 0-9 (23)	Cloud.				Barom. at M.S.L. (28)	Change in 8 hours. (29)	State of Ground. 0-9 (30)	Sea. 0-9 (31)	WEATHER.											
				Dirac. (3)	Force. (4)						Form. (10)	Amount. (11)	Height of Base. (feet) (14)	Dirac. (17)			Force. (18)	Form. (24)						Amount. (25)	Height of Base (feet) (28)	7h.—13h. 14h. (37)	13h.—18h. 14h. (38)					18h.—to 15h. (39)	1h.—7h. 15h. (40)										
																																		Low. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)	Low 0-10 (23)	Med. (24)	High (25)	Low 0-10 (26)	Total 0-10 (27)
1	London (Kew) ... Croydon ... S. Farnborough ... Boscombe Down ... Thorney Island ... Lympne ... Manston ...	1019.6 1019.3 1020.5 1021.7 1020.8 1019.5 1018.7	-12 -6 -6 -6 -6 -6 -6	WNW W NW NW NW NW WNW	3 4 3 4 4 2 3	Z c/r c c c c/r dod	60 59 60 61 63 58 58	73 85 75 75 75 82 82	6 5 7 7 7 6 6	5 5 5 8 5 5 6	- - - - - - 1	10 10 10 9 9 10 10	1500 2000 3500 4000 2500 800 800	1019.7 1019.6 1020.3 1021.3 1020.4 1019.0 1018.3	+2 -2 +2 +2 0 -2 -3	SSW WNW WNW W W W NNW	3 3 3 2 2 2 2	Z Z Z Z Z c/r c/d	60 59 59 59 62 57 58	85 85 85 85 75 82 82	6 5 7 5 6 5 6	5 5 5 5 5 5 5	- -																				



Abridged observations of additional stations in the

# AVIATION WEATHER CODE

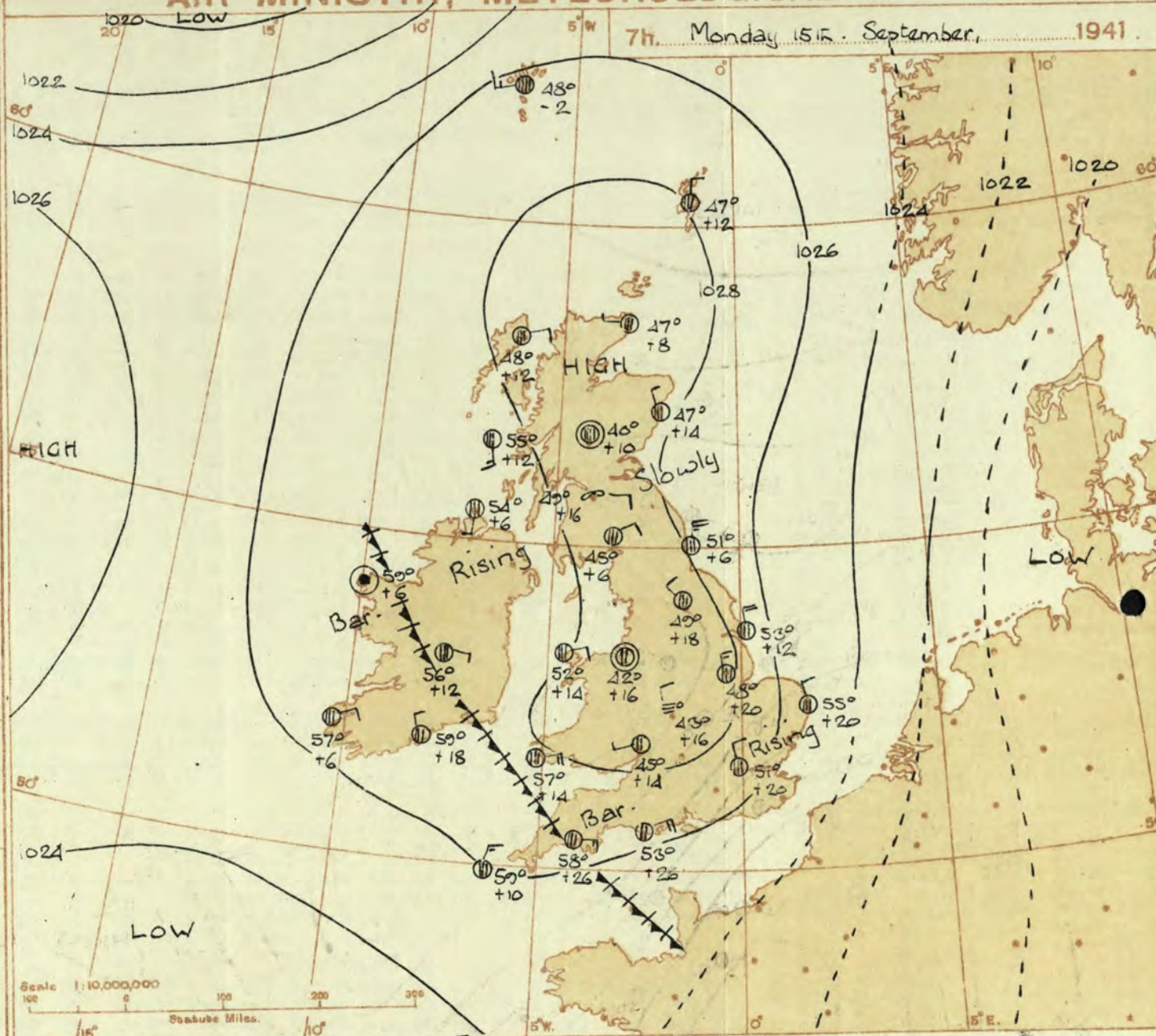
18h. G.M.T. 14. Sept. 18h. G.M.T. 15. Sept. 01h. G.M.T. 15. Sept. 07h. G.M.T.

III. C.	wwVhN	DDFWN	C. C.	wwVhN	DDFWN	C. C.	wwVhN	DDFWN	C. C.	wwVhN	DDFWN	
109	5-	43868	31528	5-	02867	27427	5-	03868	28328	5-	03968	00028
115	73	02844	04387	52	02844	04327	52	02844	04127	52	02944	12227
203	8-	01953	32415	5-	01943	32423	5-	00952	04312	5-	02945	04325
206	8-	25856	03236	7-	02865	04385	5-	02955	32125	5-	02967	32127
210	5-	02857	02457	5-	02967	02327	5-	02868	2228	5-	02967	26127
220	57	01845	06416	53	01845	064205				50	01844	03104
230	14	00953	27313	7-	02956	32216	5-	02858	00028	5-	05858	01128
245	3-	02956	65516	5-	02955	01415	50	01965	22215	5-	02957	22217
260	8-	02857	06227	5-	02865	07315	5-	02798	08218	53	02856	03127
278	5-	21837	27557	8-	01865	28415	5-	02848	10358	5-	02868	12328
279	7-	01836	28326	53	02965	06425	50	00961	04611	53	02765	01116
285										5-	02747	02127
288	3-	05656	32486	5-	05655	01425	5-	05558	31888			
575	3-	21703	28458	51	02847	30228	5-	02748	32158			
801	5-	21625	28558	7-	81067	29327	53	05663	08113			
321	52	61657	26428	5-	02747	32467	53	02764	31226	5-	05657	31327
290	5-	02747	30527	8-	02746	30616				5-	02847	30427
292	3-	22845	34587	7-	01854	31324	5-	02757	28217	5-	02758	28228
310												
614	62	05645	59427	4-	02765	32425	5-	05665	02325	5-	05567	30127
333	57	02756	26557	5-	52628	28358	00	00790	02100	5-	05667	00027
334										--	02645	32116
340	5-	51648	28358				53	01754	04215	00	04790	00004
186	62	61636	28368	86	81846	32567	5-	02966	32486	5-	02967	32327
336										54	01752	08314
350	5-	08645	26468	52	62643	33668				5-	05667	28227
368				5-	02858	30328				03	02790	07326
579				62	21647	28458	60	05653	32353	50	01755	22215
390	52	05647	26468	53	52635	30358	5-	05667	32227	5-	02767	28327
382	52	02856	27328	5-	02757	28227	50	01653	02213	5-	02866	28226
426	8-	02748	24228							8-	02757	32327
430	5-	02868	26428	5-	02748	30328	51	02798	02428	5-	02877	02217
409	10	02740	30426	54	01843	29324	53	05645	32218	57	51746	05157

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

## AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 15. September. 1941.



### DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 15<sup>th</sup> September 1941

1 S.E. England	Moderate to light N. or N.E. to variable winds. Mainly cloudy at first, some bright intervals later; rather cool.
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 ...	Light variable winds; fair with some bright intervals; rather cool.
10 N.E. England,	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	Light variable winds; cloudy with some slight local rain at first; bright intervals later; rather cool.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	As 11-16.
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	As 17.

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—  
 = Warm Front on the Surface  
 = Warm Front above the ground  
 = Cold Front on the surface  
 = Cold Front above the ground  
 = 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 and is rising generally over the British Isles. Apart from some slight local rain at first in Ireland, weather will be fair, with much cloud generally at first, but some bright intervals later. It will be rather cool.

### FURTHER OUTLOOK.

Continuing mainly fair.

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.

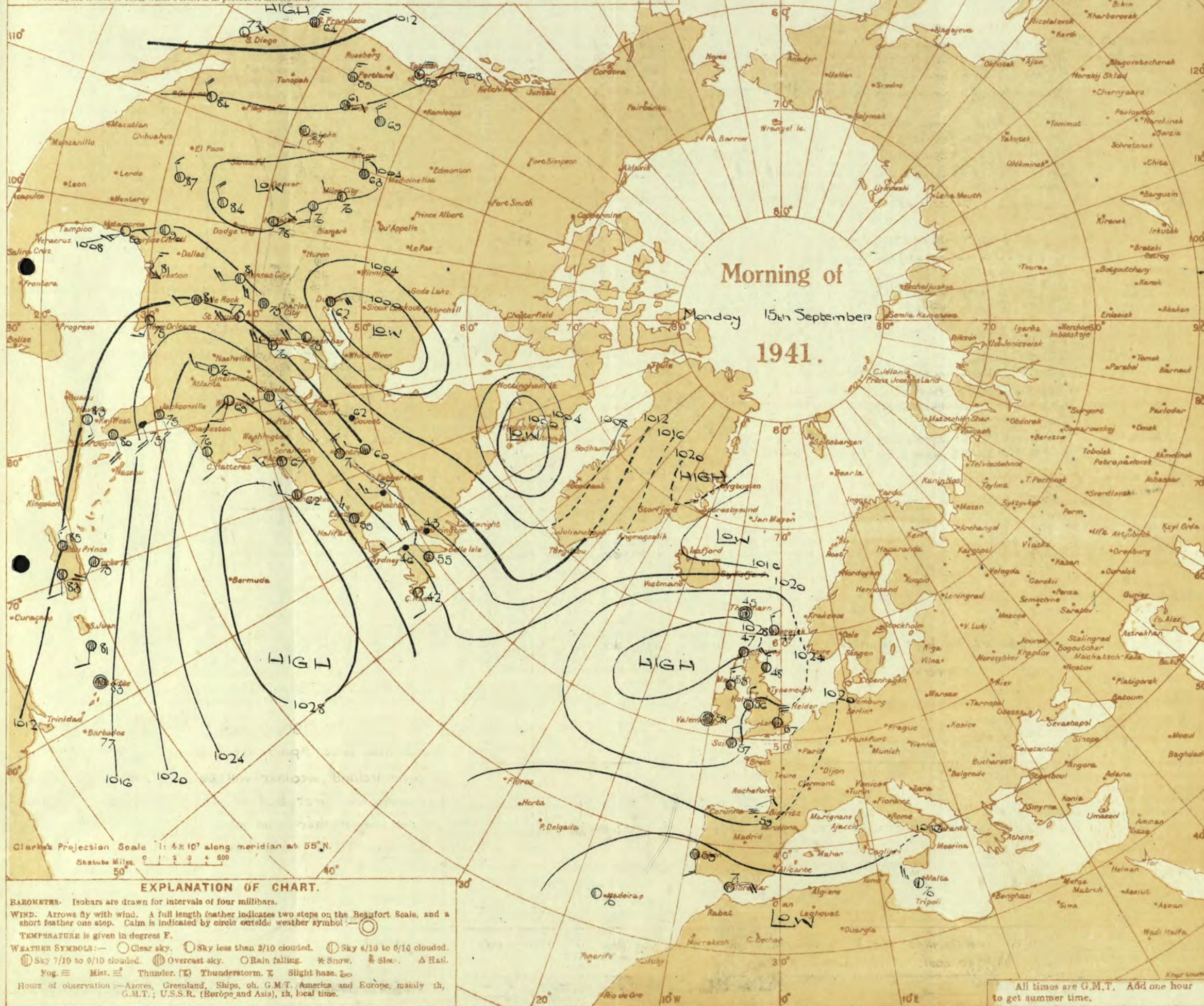
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# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

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





## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 15th September, 1941.

No. 29,152.

OBSERVATIONS at 1 hr. G.M.T. 15th September.															OBSERVATIONS at 7 hr. G.M.T. 15th September.															PAST 24 HOURS.									
DETAIL.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. (6)	Humid. (7)	Visibility (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. (20)	Humid. (21)	Visibility (22)	Cloud.					State of Ground. (29)	TEMPERATURE.					RAINFALL.					SUNSHINE Hrs. (30)	
					Dir.	Force.				Form.	Amount.	Height of Base. (feet).	Dir.	Force.			Form.	Amount.				Height of Base. (feet).	Max. Day 7h-18h (31)	Min. Night 18h-7h (32)	Min. on Grass (33)	Day 7h-18h (34)		Night 18h-7h (35)											
																													Low. (9)	Med. (10)	High (11)	Low (12)	Total (13)	Low (17)	Med. (18)	High (19)	Low (23)		Med. (24)
1	London (Kew)	18	1023.8	+18	N	4	51	75	7	S	3	-	7-8	0+	1027.0	+18	N	2	52	75	6	S	-	0+	0+	2500	0	*	61	50	42	Tr	Tr	0.2					
	Croydon	217	1023.7	+14	NNE	2	53	75	7	S	-	-	9+	0+	1026.6	+20	NW	2	51	75	6	S	-	0+	0+	2000	0	*	60	50	47	Tr	Tr	0.3	0.3				
	S. Farnborough	226	1023.7	+14	NNE	2	53	75	7	S	-	-	9+	0+	1027.8	+22	NW	2	49	75	8	S	-	0+	0+	3000	0	*	62	48	43	-	Tr	Tr	0.8				
	Boscombe Down	417	1024.2	+14	NE'E	4	55	85	6	S	-	-	10	10	1028.3	+22	NW	2	43	82	7	S	-	1	2-3	3000	0	*	63	43	35	-	Tr	Tr	1.0				
	Thorney Island	10	1023.4	+18	NE	3	56	75	6	S	-	-	2-3	2-3	1026.2	+18	NNE	2	47	85	7	S	-	0+	0+	4000	0	*	66	42	32	-	-	-	*				
	Lymington	346	1022.4	+2	NW	3	51	75	6	S	-	-	0+	0+	1025.3	+20	N	3	52	85	8	S	-	0+	0+	3500	1		59	49	46	2	0.3	0.1					
	Manston	154	1022.1	+14	N	4	53	65	7	S	-	-	10	10	1025.2	+20	N	3	55	75	8	S	-	0+	0+	4500	1	*	59	52	50	5	-	0.0					
2	Shoeburyness	11													1026.3	+20	NW	2	52	85	8	S	-	0+	0+	4000	1	*	61	50	48	1	-	0.1					
	Felixstowe	15	1022.1	+14	N	3	53	65	7	S	-	-	10	10	1024.8	+14	NW	3	53	75	7	S	-	0+	0+	4000	1	2	60	51	48	2	-	0.0					
	Gorleston	5	1021.6	+10	NW	4	55	85	6	S	-	-	10	10	1025.0	+20	NW	4	55	65	7	S	-	10	10	2500	1	4	60	50	50	2	-	*					
	Mildenhall	19	1023.1	+10	NW	3	50	85	7	S	-	-	7-8	7-8	1026.6	+22	NW	2	50	92	8	S	-	0+	0+	3500	0	*	61	49	45	3	-	0.0					
	Cranwell	240	1024.7	+10	NW	3	50	75	7	S	-	-	0+	0+	1027.0	+20	NW	3	48	85	7	S	-	0+	0+	2500	0	*	63	47	45	1	-	0.0					
3	Birmingham	535													1029.4	+16	NW	2	43	92	4	-	4	2	0	4-6	1	*	59	42	28	Tr	Tr	0.0					
	Upper Heyford	408	1024.5	+18	NW	3	49	85	7	S	4	-	7-8	7-8	1027.4	+12	NW	3	45	97	7	S	-	0+	0+	3000	1	*	59	43	42	0.1	0.2	*					
4	Ross-on-Wye	223													1028.4	+14	WSW	1	45	85	7	S	-	2	Tr	2-3	4000	0	*	63	45	*	Tr	Tr	0.4				
5	Hartland Point	299	1023.8	0	N	3	59	97	8	S	-	-	0	0	1026.2	+18	ENE	4	57	85	8	S	-	7-8	7-8	3500	0	4	60	57	56	-	-	6.4					
	Bristol	209	1024.6	+14	NE	1	55	92	6	S	-	-	10	10	1028.8	+26	E	1	57	85	7	S	4	7	Tr	1	2000	0	*	65	45	37	-	0.2	1.0				
	Portland Bill	32	1022.9	+8	NW	2	60	92	7	S	-	-	10	10	1026.8	+26	NE	4	53	85	8	S	-	4-6	4-6	4000	0	3	63	52	*	-	-	*					
	Plymouth	82	1024.2	+4	N	1	59	85	7	S	-	-	4-6	0	1027.2	+26	E	3	58	85	8	S	-	10	10	2000	0	3	66	58	55	-	-	8.9					
	The Lizard	240	1024.5	+2	NE	2	57	97	7	S	6	-	7-8	7-8	1026.3	+16	NE	2	58	92	8	S	6	7-8	7-8	1500	0	2	66	54	*	-	-	10.8					
	Scilly (St. Mary's)	163	1025.1	+2	NW	2	57	97	7	S	-	-	0+	0+	1025.9	+10	NE	3	59	97	7	S	2	7-8	10	1000	1	2	64	56	*	-	-	3.8					
	Guernsey	175																																					
6	Pembroke	142	1024.4	+2	NNE	3	57	97	7	4	-	-	2-3	2-3	1027.8	+14	ENE	4	57	97	7	8	-	7-8	7-8	2500	1	2	62	55	*	-	-	0.2	8.0				
7	Holyhead/Valley	26	1024.2	+6	N	1	56	97	7	S	-	-	0	0	1027.2	+14	ENE	2	52	85	7	S	3	2-3	0	2500	1	2	61	52	44	0.3	Tr	*					
	Chester/Sealand	16	1026.2	+22	ENE	2	52	75	6	S	3	-	4-6	7-8	1028.8	-16	-	0	42	92	5	-	4	5	0	4-6	1		60	40	35	0.1	Tr	0.0					
8	Manchester	70	1026.0	+14	NNE	1	47	75	7	S	-	-	2-3	2-3	1029.3	+18	NE	1	57	97	4	-	4	1	0	2-3	1		61	36	30	0.2	-	0.0					
10	Spurn Head	29	1024.0	+16	NNE	5	54	75	7	8	-	-	10	10	1027.3	+12	NW	4	53	75	7	8	-	0+	0+	4000	0	3	61	52	*	2	-	3.5					
	Catterick	175	1026.5	+10	NW	2	49	75	7	S	-	-	10	10	1029.0	+18	NW	2	49	75	7	S	-	10	10	3200	0	*	61	48	41	0.6	-	0.6					
	Tynemouth	108	1026.1	+10	N	6	53	65	7	8	-	-	0	0	1026.8	+6	N	5	51	75	7	8	-	0+	0+	2600	1	4	61	50	48	-	-	*					
11	St. Abbs Head	280	1026.8	+22	NW	3	49	85	8	S	4	-	4-6	7-8	1028.0	+8	N	2	49	85	9	5	4	7-8	0+	2500	0	2	59	45	*	Tr	Tr	*					
	Leuchars	36	1027.6	+12	NW	3	40	92	8	-	4	-	0	1	1029.6	+14	-	0	43	92	7	5	-	0+	0+	3200	0	*	65	37	31	-	-	7.3					
12	Kenfrew (Abbots I.)	19	1027.1	+10	ENE	2	50	75	6	5	-	-	10	10	1029.4	+16	E	2	49	75	6	5	-	0+	0+	2300	0	*	70	48	45	Tr	-	5.0					
	Eskdalemuir	794													1029.3	+16	NE	2	45	85	8	5	-	7-8	7-8	2500	1		64	30	30	-	-	2.4					
	Point of Ayre	30	1026.3	+20	E	4	54	75	8	8	2	-	0	10	1028.6	+14	SSW	3	53	75	8	5	-	0+	0+	6000	0	4	62	52	*	-	-	3.5					
13A	Tiree	22	1023.3	+4	-	0	52	92	8	8	-	-	1	1	1027.2	+12	SE	3	55	92	8	5	-	7-8	7-8	2500	0	3	60	52	*	Tr	-	5.7					
13B	Stornoway	80	1027.6	0	NE	3	47	75	7	5	7	-	4-6	0+	1029.1	+12	ENE	2	48	75	8	5	7	7-8	0+	2500	1	2	55	46	*	Tr	-	4.0					
15	Dalwhinnie	1176													1029.7	+10	-	0	40	92	8	5	-	10	0	2500	1	*	56	33	26	Tr	-	1.7					
	Aberdeen	79													1029.2	+14	NW	1	47	85	8	5	-	0+	0+	2500	0	2	56	46	45	0.2	Tr	3.4					
	Wick	119	1027.7	+6	NW	2	47	75	8	5	-	-	10	10	1028.9	+8	N	1	47	75	9	5	-	0+</															



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Tuesday 16th September 1941.  
No. 29153.

OBSERVATIONS at 13h. G.M.T. 15th September														OBSERVATIONS at 18h. G.M.T. 16th September														PAST 24 HOURS.																																																																																																																																																																																																					
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Temp. °F.	Humid. %	Visibility. 0-9	Cloud.					Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Temp. °F.	Humid. %	Visibility. 0-9	Cloud.					Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Temp. °F.	Humid. %	Visibility. 0-9	WEATHER.																																																																																																																																																																																																
				Dir.	Force. 0-12				Form.	Amount. 0-10	Height of Base. (feet).	Dir.	Force. 0-12			Form.	Amount. 0-10				Height of Base. (feet).	Dir.	Force. 0-12	Form.	Amount. 0-10			Height of Base. (feet).	State of Ground. 0-9				Sea. 0-9	7h.—18h. 15th.	13h.—18h. 15th.	18h. 15h. to 16h.	1h.—7h. 16h.																																																																																																																																																																																												
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lymington ... Manston ...	1029.6 1029.0 1029.5 1029.4 1029.0 1028.2 1028.5	+6 +6 +6 +4 +6 +10 +10	NE/N NE NE NE/E NE N N/E	2 2 2 3 3 3 2	c c c bc bc c c	56 56 56 58 59 57 58	55 55 55 55 55 65 65	7 7 7 8 7 8 8	5 5 5 4 5 5 7	- - - - - - -	9.1 10 9.1 4.6 4.6 9.1 4.6	10 2500 3500 4000 4000 3000 3800	1030.2 1029.6 1030.2 1030.2 1029.6 1029.5 1029.6	+6 +6 +8 +8 +6 +6 +6	N N/E NNE NE NE - N/E	2 2 1 2 2 0 2	56 54 57 54 55 54 55	55 65 65 65 75 75 75	6 5 7 5 6 8 8	5 5 3 4 7 5 5	- - - - - - -	9.1 9.1 4.6 2.3 2.3 9.1 9.1	2500 3000 4000 4000 4000 4500 3500	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 



Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 15h. Sept. 18h. G.M.T.				01h. G.M.T. 04h. Sept. 07h. G.M.T.								
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	5-	02965	25225	50	00961	20101	50	00953	20203	5-	02857	20327
115	54	01954	08125	54	01954	22215	52	02844	22327	55	02844	22326
203				5-	02935	16325	5-	01944	16224	5-	02938	20328
206	70	01963	08323	73	02865	08225	5-	01863	00023	00	09490	00040
210	50	00962	32112	50	00961	08111	50	00762	00002	50	01963	22123
220				50	02857	21217				57	02845	00018
230				51	02757	16128	5-	02757	00057	5-	02758	00028
245	7-	02867	24227	50	01974	14114	5-	05665	24215	5-	02866	22226
260	5-	02767	00017	5-	05667	22217	5-	05568	24128	5-	02768	20128
278	5-	02878	11328	5-	02767	13227	5-	02868	10128	57	02755	12152
279	70	00863	02113	7-	02966	00016	5-	02768	00028	5-	05568	00058
285	10	01854	02114	50	01855	08315				5-	03758	02228
288	51	02757	32228	00	05630	06200	03	05630	20103	5-	05666	20226
575	57	02854	12158	5-	51648	12158	5-	51638	12228	5-	41438	08168
301	50	01762	10112	00	05630	04202	00	08490	08240			
321	5-	02868	02228	5-	02767	02127	00	05590	00000	53	45365	00047
299	80	01754	30315	5-	02847	30327	50	00740	24102	50	05652	23202
292	5-	05668	28228	50	00863	07113	00	05590	00000	5-	08458	00028
310	--	01644	04314	--	05543	04313				--	01643	24213
614	5-	05666	04126	40	05662	32112	00	05590	00000	73	05563	26146
333	23	02754	12324	00	00790	24200	5-	05658	00018	5-	02757	30127
334	--	01862	32103	--	02755	32116				--	03437	04128
340	10	00663	27113	00	05630	10100				5-	43367	8147
136	5-	02968	32328	5-	02967	01257	5-	02858	32128	5-	02967	26157
336	13	01762	08313							51	05653	12315
350	53	02866	02227	5-	02767	02227				5-	05577	28117
368				00	00790	04200	00	05690	02200	00	05690	04100
379	50	01764	02314	50	00861	04201	00	05690	00000	50	0743	08103
390	7-	02766	30327	5-	02768	32128	5-	05658	00028			
382	5-	02857	02227	50	01865	04113	50	05362	00000	53	01663	00003
438	5-	02855	04315							02	03758	32428
430	5-	02766	02426	50	05662	04213	50	05662	00012			
409	53	02763	14326	3-	01854	14314	00	00690	12320	00	00790	08200

III

— Index Number of Station—See M.O. 252 or list issued on 1st of each month.

ww, Vh, N<sub>h</sub>

— Present and past weather—See M.O. 252.

h, N<sub>h</sub>

— Height and amount of low cloud—See M.O. 252.

N

— Total amount of cloud—See M.O. 252.

C<sub>M</sub>

— Form of low and medium cloud—See page 1.

V

— Visibility. F = Force of wind—See page 4.

DD

— Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 16th September 1941
1 S.E. England	Light variable winds; fair, with considerable bright periods; some local fog around dawn, mainly in industrial areas; average temperature or rather cool.
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	Light to moderate Westerly winds; cloudy; occasional rain or drizzle later; average temperature.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Light variable winds; cloudy, with local drizzle; average temperature.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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

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

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- 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 the British Isles, but a minor trough of low pressure over our western and northern districts will cause some drizzle there. Elsewhere weather will be fair, though with some local fog around dawn. Temperatures will be near or rather below average.

**FURTHER OUTLOOK.**

Slight rain in extreme N. and W. Fair elsewhere.

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

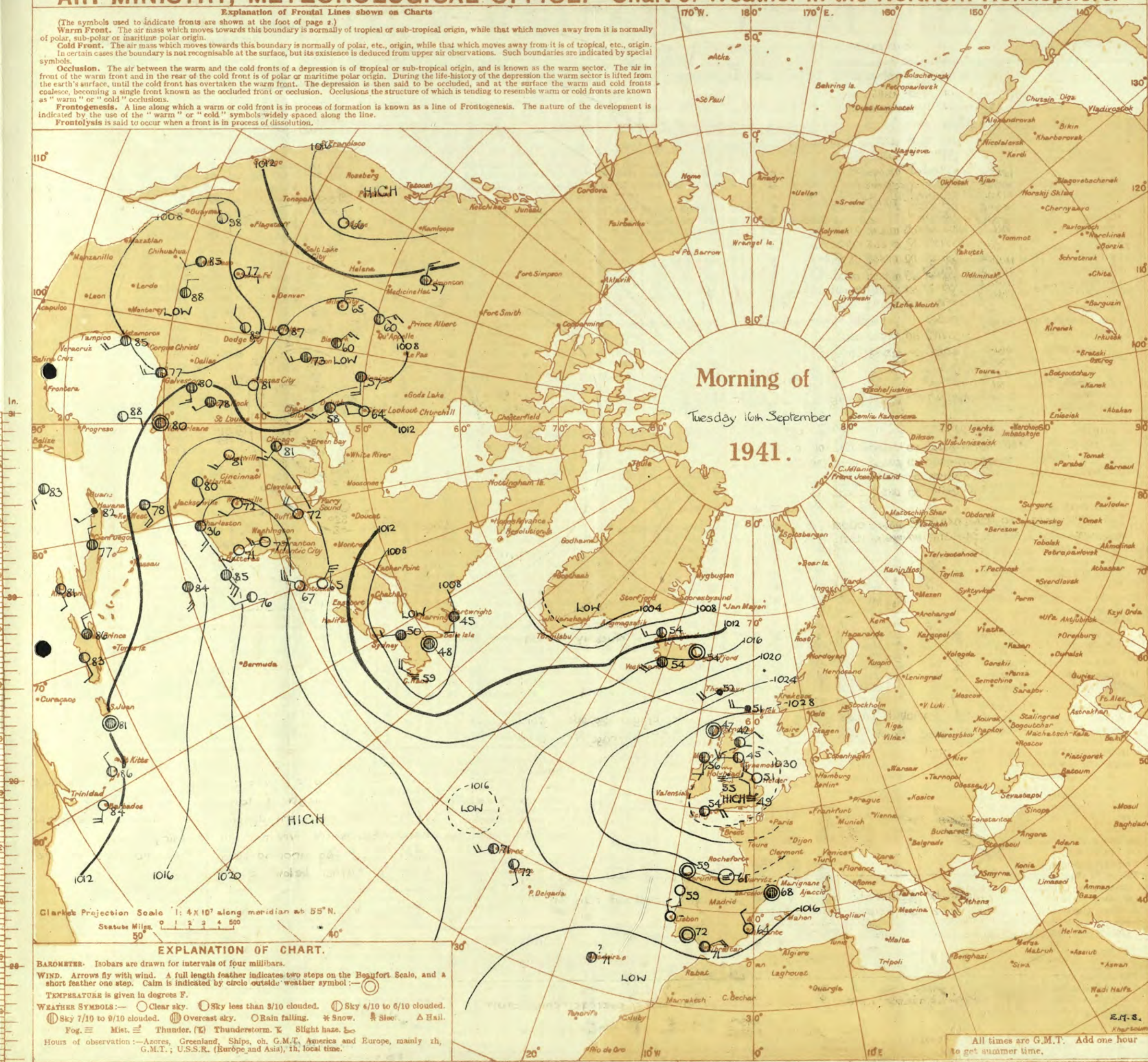
Forecasts issued at 1030 G.M.T.  
H.M.S.O. Press, Meteorological Office, Dunstable.



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Tuesday 16th September, 1941.  
No. 22,153

OBSERVATIONS at 1 hr. G.M.T. 16th September....															OBSERVATIONS at 7 hr. G.M.T. 16th September....															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)	Visib. 0-9 (8)	Cloud.					Barom. at station M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visib. 0-9 (22)	Cloud.					Sea. 0-9 (30)	TEMPERATURE.				SUN-SHINE Hrs. (36)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
					Dir.	Force.					Low 0-10 (12)	Total 0-10 (13)	Height of Base (feet) (14)	Form.	Amount.			Dir.	Force.					Low 0-10 (25)	Total 0-10 (26)	Height of Base (feet) (28)	Form.	Amount.		Height of Base (feet) (29)	Max. Day 7h-15h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)		Day 7h-15h mm. (34)	Night 18h-7h mm. (35)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Wednesday 17th September 1941.  
No. 29154

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

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

PAST 24 HOURS.

Distance.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather.	Temp. °F. (6)	° Hyd.	Visib. 0-9 (8)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather.	Temp. °F. (20)	° Hyd.	Visib. 0-9 (22)	Cloud.			Barom. at M.S.L. mb. (29)	Change in 8 hours. (30)	WEATHER.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				Dir.	Force. 0-12 (4)					Form.	Amount. Low Total 0-10 0-10 (11) (12)	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. 16th (37)	13h.—18h. 16th (38)	18h.—17h. 17th (39)	1h.—7h. 17th (40)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

q, squalls. r, rain. s, snow, rs, sleet. t, thunder.  
u, ugly, threatening sky.  
v, unusual visibility. w, dew.  
x, hoar frost. y, dry air.  
z, dust haze: the turbid atmosphere of dry weather.  
h(r), "hail" or "rain and hail."  
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r, slight rain.  
rr, continuous rain.  
<, less than (for cloud height). gale.  
☉ Solar halo. ☾ lunar halo. ☽ Aurora.  
With present weather is combined, whenever possible, the general character of the weather.  
A "solidus" divides actual existing weather from preceding conditions: thus: -bc/r, fair weather after rain; -, has decreased; +, has increased.

## COLUMNS 9, 23.—FORM OF LOW CLOUD.

- No low clouds.
- Fair weather Cu.
- Large Cu without anvil.
- Cb.
- So formed by the spreading out of Cu.
- Layer of St or Sc.
- Ragged low clouds of bad weather (or fractonimbus).
- Fair weather Cu and Sc.
- Large-Cu (or Cb) and Sc.
- 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



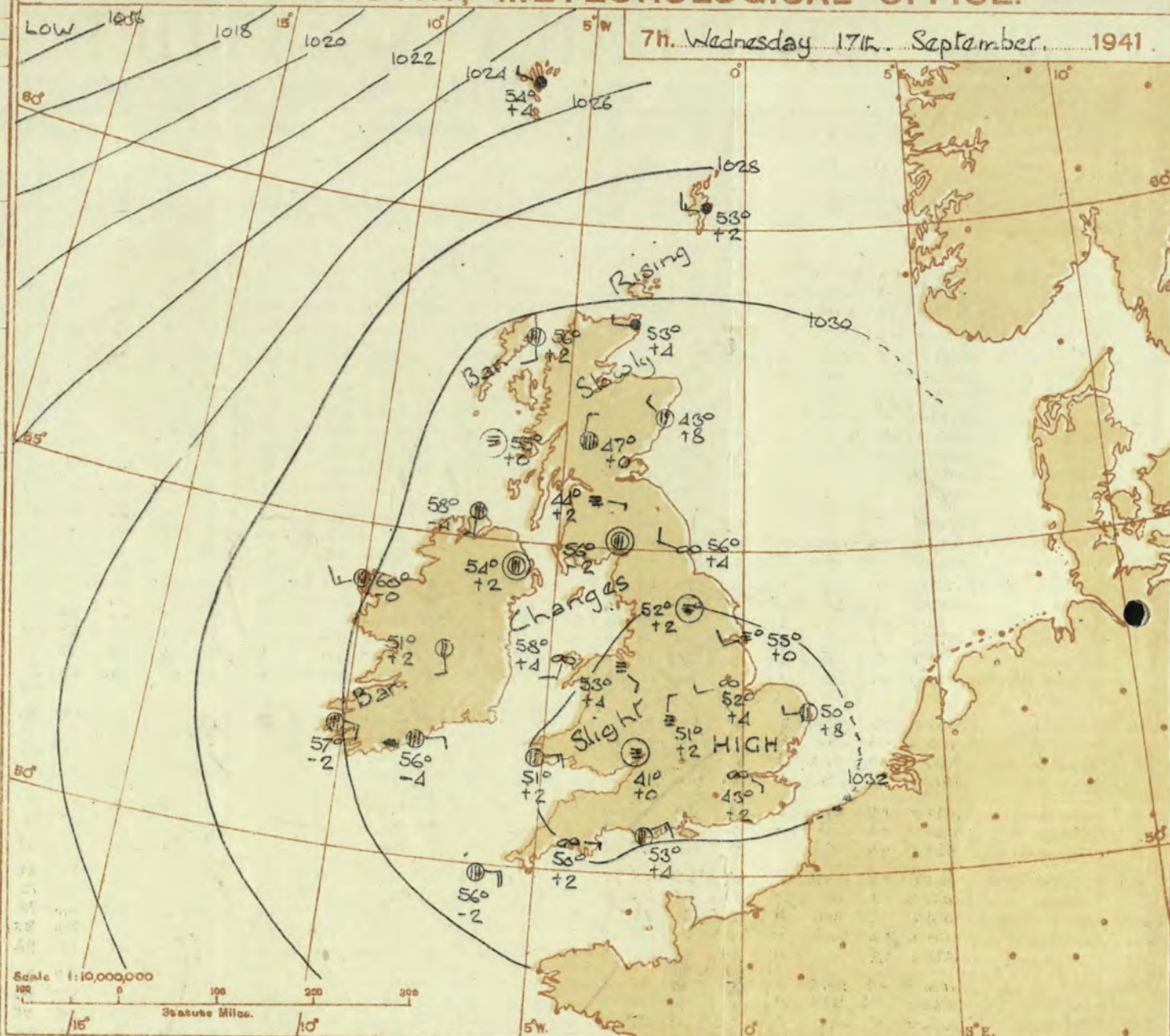
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 16th. Sept.								15h. G.M.T.								01h. G.M.T. 17th. Sept.								07h. G.M.T.							
III.	C <sub>h</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>h</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>h</sub>	C <sub>h</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>h</sub>	C <sub>h</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>h</sub>	C <sub>h</sub>	ww	Vh <sub>N</sub>	DDFWN								
109	5-	02855	24425	5-	02854	25224	5-	01844	19324	5-	52537	20357																			
115	54	01943	22424	52	02344	22427	52	81844	22487	--	67109	20389																			
203								5-	55838	20328																					
206	10	01863	06113	70	00971	08301	5-	00863	00013	5-	02856	00026																			
210	70	00963	02213	00	00990	00000	50	00862	18112	5-	02867	15127																			
220																															
230	70	00853	20313	5-	02865	20215	5-	51656	00056	5-	57308	20158																			
245	11	00863	15413	50	00741	08211	5-	02766	24126	50	05663	26213																			
250	5-	05667	22227	5-	05677	20117	00	43390	00040	00	45190	00040																			
278	5-	05637	18157	5-	02767	02127	5-	05657	12117	5-	61667	20157																			
279	57	05664	20227	50	05665	20325	50	05632	00012	50	05635	00045																			
285	5-	02747	24427	23	05645	24416					02747	28127																			
288	73	02765	18226	53	02755	16127	5-	05668	20228	5-	05568	20128																			
575	83	02744	00027	5-	02968	00028	5-	05658	08128	53	05557	08158																			
801	03	05690	20226	03	05690	26214	5-	61545	00079	07	47390	00066																			
321	7-	02758	32148	50	05667	05227	5-	05558	22128	5-	47368	14146																			
299	5-	05653	26203	50	05653	00013	5-	05548	22228	5-	05548	22228																			
292	03	00790	27123	50	01774	14124	5-	05568	12128	5-	08467	00028																			
310	--	02638	24328	--	01635	26315					03636	24226																			
614	5-	05667	22107	05	05690	04105	5-	47368	00048	5-	47337	22227																			
333	5-	02753	16228	5-	01765	18115	5-	05656	00026	5-	02757	00027																			
334	--	01862	00013	--	02756	04117					03437	00028																			
340	5-	05667	02127	03	05690	02103	5-	45368	00048	5-	08467	16127																			
136	7-	01764	00014	03	05690	00014	00	05690	23210	50	05562	20202																			
336	14	01763	12326	04	01790	08312					46209	00049																			
350	10	05663	04113	00	05690	06100	00	05690	00000	00	05590	18140																			
368	00	00790	12200	00	05690	11410	00	05590	04100	00	05590	04200																			
879	10	01743	12113	00	00790	07100	00	05690	24100	00	05690	16100																			
390	5-	02867	24127	00	00790	00010	00	05590	00000	00	05490	00000																			
382	40	01754	06114	00	05690	00010	00	05590	00000	00	45190	00040																			
438	5-	02856	04326							02	02856	04326																			
430				53	01874	00014	00	05690	04100	5-	02868	04328																			
400	10	05653	06103	50	05764	14114	00	05690	09210	0	02847	07227																			

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 17th. September. 1941.



DISTRICTS.

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

1 S.E. England	Light variable to S.E. breeze; fine; some early morning fog tomorrow; average day temperature; very cool at night.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light S.E. wind; fair; average temperature; local early morning fog inland.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Light variable to southerly breeze; fair or fine; local early morning fog; average day temperature; cool at night.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	Light S. to S.W. wind; cloudy to overcast; occasional drizzle near the coast; average temperature.
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	Light S. to S.E. winds; mainly cloudy at first, but brighter conditions spreading from the south; 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.

An anticyclone covers the British Isles and depressions are moving northeast in the Icelandic area. Weather will continue fair to fine in most districts apart from some occasional drizzle in the extreme N.W. and N. Early morning fog will occur in England.

FURTHER OUTLOOK.

No indications of any important change.

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

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

9269/120. W. 8/70. D. 8034. Op. 348 3500 8/41



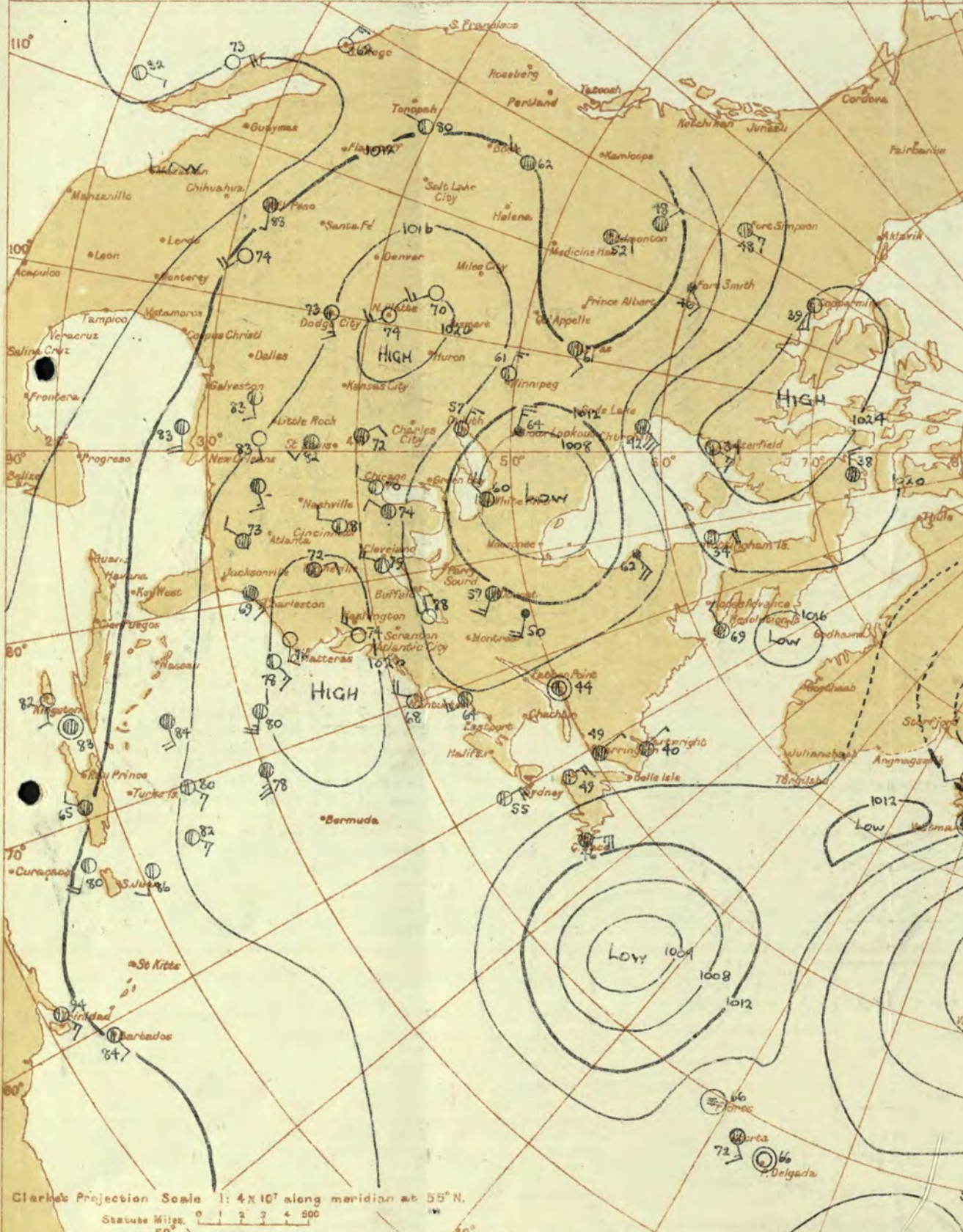
# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

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



Morning of  
 Wednesday 17th September  
 1941.



Clark's Projection Scale 1: 4x10<sup>7</sup> 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. ⚡ Rain. ☁ 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  
Wednesday 17th September 1941.  
No. 29,154

OBSERVATIONS at 1 hr. G.M.T. 17th September														OBSERVATIONS at 7 hr. G.M.T. 17th September														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)		Temp. (5)	Humid. (6)	Visib. (7)	Cloud. (8) (9) (10) (11) (12)					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind. (17) (18)		Temp. (19)	Humid. (20)	Visib. (21)	Cloud. (22) (23) (24) (25) (26)					Sea. (29)	TEMPERATURE. (30) (31) (32) (33) (34)					RAINFALL. (35) (36)		SUNSHINE (37)		
					Direc.	Force.				Form.	Amount.	Height of Base. (feet).	Direc.	Force.			Form.	Amount.				Height of Base. (feet).	Direc.	Force.	Form.	Amount.		Height of Base. (feet).	State of Ground. (30)	Sea. (30)	Max. Day 7h-18h (31)	Min. Night 18h-7h (32)	Min. on Grass (33)	Day 7h-18h (34)		Night 18h-7h (35)	16th Hrs. (36)
1	London (Kew) ... 18														1033.5	+2	SW 1/2	1	43	57	2								58	40	31		Tr	7.8			
	Croydon ... 217	1032.6	-2				41	57	4						1032.8	+4	SE	1	43	57	5									62	38	36			5.5		
	S. Farnborough ... 226	1033.3	-2				39	52	5						1033.7	+4		0	37	57	1									62	35	31			6.4		
	Boscombe Down ... 417	1033.0	-4	NE	2	20	46	85	6						1033.2	+4	ESE	1	45	52	6									50	30	31			9.2		
	Thorney Island ... 10	1032.5	-2	NE	2	20	43	92	6						1032.4	+2	NE 1/2 N	2	50	52	7									43	40	36					
	Lymington ... 346	1032.8	-2	W	1	20	46	87	6						1032.5	-2	N	1	51	52	7									57	43	35			0.3		
	Manston ... 154	1032.7	-2				46	92	6						1032.7	+2		0	54	75	8									58	46	34			0.2		
2	Shoeburyness ... 11														1033.0	+2	NW 1/2	1	47	52	5									60	44	34			0.4		
	Felixstowe ... 15	1032.5	-2				50	85	6						1032.5	+2		0	51	85	5									65	46	42			3.8		
	Gorleston ... 5	1032.2	-4				41	75	6						1032.3	+8	W 1/2 S	1	50	85	6									57	49	48					
	Mildenhall ... 19	1032.3	+2	W	1	20	45	97	6						1033.1	+4	S	1	50	97	5									54	36	29			4.4		
	Cranwell ... 240	1032.6	-4	W	3	20	53	75	6						1032.6	+4	SW	1	52	85	5									63	46	40			5.6		
3	Birmingham ... 535														1033.0	+2	N	1	51	85	3									61	40	36			1.8		
	Upper Heyford ... 408	1033.0	0				46	92	5						1033.4	+4		0	40	97	4									61	30	37					
4	Ross-on-Wye ... 223														1033.2	0		0	41	97	1									63	30	36			7.0		
5	Hartland Point ... 299	1031.6	-2	ESE	2	6	51	85	7						1031.6	+2	SE 1/2 E	3	50	85	7									63	47	44			11.4		
	Bristol ... 200	1032.7	-4				42	92	5						1033.4	+6		0	50	97	5									63	38	30					
	Portland Bill ... 32	1031.4	-12	NE	3	60	56	92	7						1031.3	+4	NE	3	53	85	8									57	50						
	Plymouth ... 82	1032.4	-6	E	1	20	45	97	5						1032.1	+2	E	1	50	92	6									63	43	38			9.4		
	The Lizard ... 240	1031.0	+6	E 1/2 S	4	5	55	75	8						1030.4	-2	E 1/2 S	5	56	75	8									62	53				6.2		
	Scilly (St. Mary's) ... 163	1030.8	-8	E	3	5	55	85	6						1030.1	-2	E	4	56	75	8									63	52				3.5		
	Guernsey ... 175																																				
6	Pembroke ... 142	1033.1	-2	NE 1/2 E	2	6	53	97	7						1032.1	+2	E 1/2 N	3	51	97	5									62	51				1.3		
7	Holyhead (Valley) ... 26	1031.7	-6	E	1	20	55	97	6						1031.5	+4	SSW	2	58	97	6									62	53	42					
	Chester (Sealand) ... 16	1032.5	-2	SSE	1	20	53	92	1						1032.5	+4	SE	1	53	92	3									65	50	42			4.9		
8	Manchester ... 70	1032.5	-2				52	92	3						1032.5	+2		0	53	97	2									65	46	41			3.6		
10	Spurn Head ... 29	1032.4	0	SW 1/2 W	2	5	55	75	7						1032.8	0	SW 1/2 W	2	55	85	4									61	50				7.2		
	Catterick ... 175	1032.1	-2				54	92	5						1031.9	+2		0	52	92	4									64	51	49			0.9		
	Tynemouth ... 108	1031.5	-4	SW	2	20	57	85	5						1031.5	+4	WNW	2	56	85	5									60	56	50					
11	St. Abbs Head ... 280	1031.1	-4	NW	1	6	55	85	7						1031.3	+4	NNE	1	53	92	7									59	51						
	Leuchars ... 36	1031.2	+2	NW	1	6	48	92	6						1031.4	+4	W	2	45	97	6									65	44	41			5.0		
12	Bonfrew (Abbots L.) ... 19	1031.7	-2	WSW	1	6	44	97	4						1032.2	+2	E 1/2 S	1	48	97	1									64	38	34			2.6		
	Eskdalemuir ... 794														1031.3	-2		0	56	97	7									58	45	40			0.0		
	Point of Ayre ... 30	1031.8	0				56	97	7						1031.6	-2		0	57	97	8									63	52				0.1		
13A	Tiree ... 22														1031.5	0		0	55	97	2									59	53				2.4		
13B	Stornoway ... 80	1029.9	-4	8	3	5	57	97	8						1030.2	+2	SSE	2	56	97	7										59	54				0.5	
15	Dalwhinnie ... 1176														1030.2	0		1	47	92	7									63	34	28			7.4		
	Aberdeen ... 79														1031.6	+8	NW	1	43	97	6									63	41	36			7.6		
	Wick ... 119	1030.3	-8	SSW	3	60	51	97	7						1030.7	+4	W	1	53	92	8										59	50	48				
16	Sumburgh ... 30	1029.2	-2	W 1/2 S	4	5	52	97	8						1029.1	+4	W	3	53	97	4									53	51	50					
17	Blackod Point ... 18	1030.6	-2				50	92	7						1029.9	0	SW	3	60	92	7									67	57				0.1		
18	Mahm Head ... 84	1031.2	-6	W	1	5	57	97	7						1030.5	-4	S	1	58	92	8									68	55				0.3		
	Aldergrove ... 268	1032.0	-6				57	85	5						1031.7	+2		0	54	92	7									68	53	50			2.3		
19	Birr Castle ... 173	1031.4	0	SW	1	5	58	92	8						1031.4	+2	SSE	1	51	97	8									67	51	46			0.1		
20	Valentia Obay. ... 30	1030.3	-10	ESE	2	5	57	85	8						1030.0	-2	ESE	3	57	65	7									63	54	48			0.0		
	Roches Point ... 22	1031.3	-8	E 1/2 N	2	5	53	92	8						1030.3	-4	ESE	2	56	92	7										63	52				0.1	

LONDON OBSERVATIONS.													EXPLANATION OF FIGURES, LETTERS, etc.												
Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h.													The barometric tendency is expressed in tenths of a millibar.												
HEIGHT above SEA, in feet.													Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.												
Weather													Rainfall.												
Temperature.													Sun-shine.												
Humidity.													Visibility.												
Morning. Afternoon. Night.													Sunset. G.M.T. hrs.												
Day Max. Night Min. Min. on Grass °F.													15h. 9h. G.M.T. %												
24 hrs. ended 9h.													Yesterday. To-day.												
°F.													°F.												
mm.													mm.												
Kew...													7-8												
Croydon...													5-5												
Greenwich (Royal Observatory)...													5-2												
City (Bunhill Row) ...													56 83												
Westminster (St. James' Park) ...													65 63												
Regents Pk. (Botanic Gardens)...													85												
Camden Square ...													84												
Kensington ...													56												
Hampstead Observatory ...																									
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# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Thursday 18th September 1941.  
No. 29155

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

OBSERVATIONS at 18h. G.M.T. 17th September.

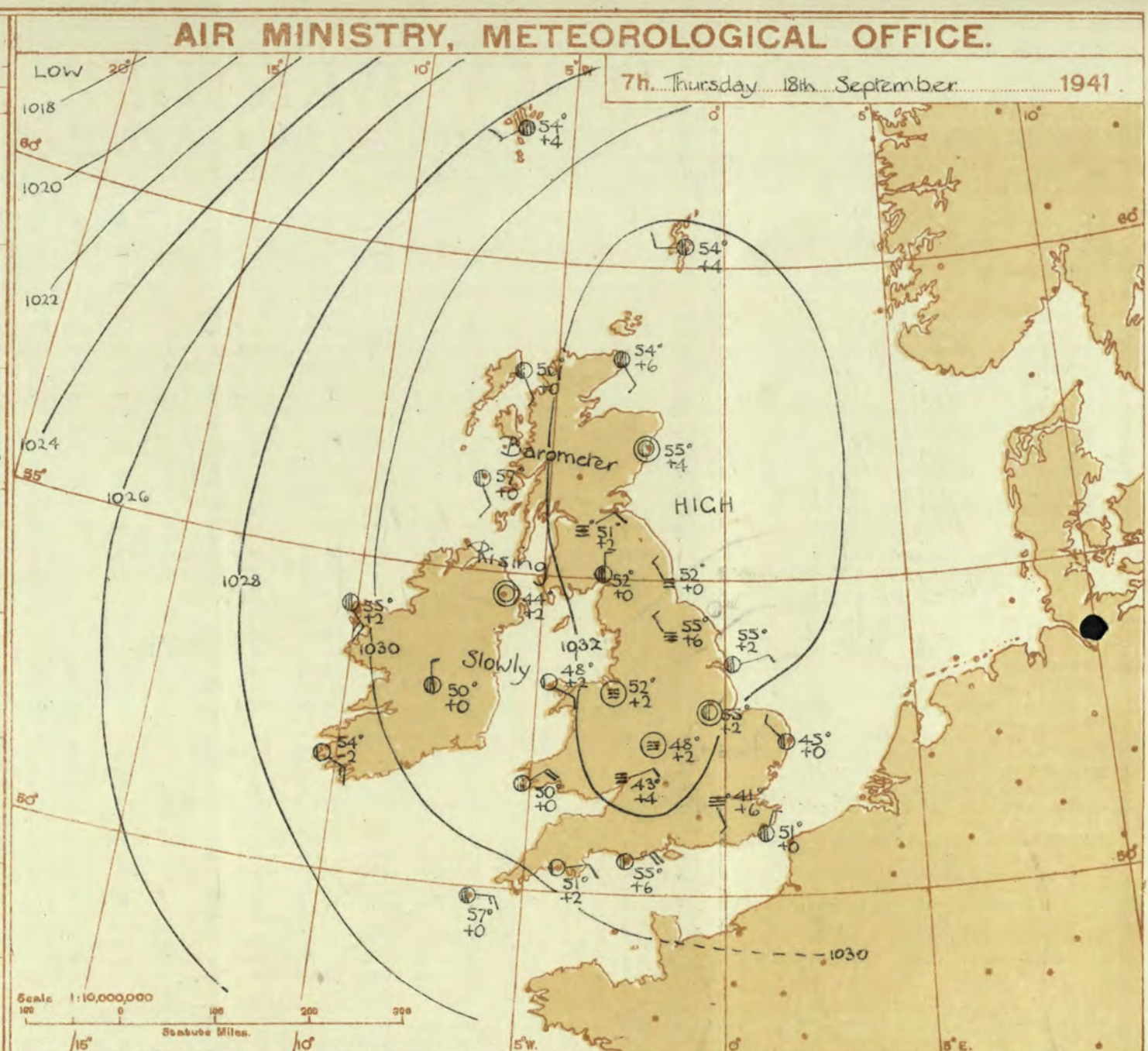
PAST 24 HOURS.

District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.			Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.			State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.										
				Direc. (3)	Force. 0-12 (4)					Form. (9)	Amount. 0-10 (10)	Height of Base. (feet) (11)			Form. (23)	Amount. 0-10 (24)					Height Base (feet) (25)	7h.—18h. 17h.... (37)	13h.—18h. 17h.... (38)			18h.—to 1h. 18h.... (39)	1h.—7h. 18h.... (40)									
																												Low.	Med.	High	Low	Med.	High	Low	Med.	High
1	London (Kew)...	1032.6	-6	-	0	z	60	65	5	-	-	0	0	-	1031.5	-4	ESE	2	z	57	75	5	-	-	0	0	-	0	*	b f w k z	b z	b m w f	b f f w			
	Croydon ...	1032.2	-6	E	1	b c	62	65	7	-	-	4-6	4-6	2500	1031.5	-2	ESE	1	b	57	75	6	-	-	0	0	-	0	*	b f g n a b e	b c b b z	b z b m w	b m w b m w			
	S. Farnborough	1032.4	-8	E'S	1	b c	61	65	8	4	-	4-6	4-6	3500	1031.5	-2	ESE	1	z	60	75	6	-	-	0	0	-	0	*	b f b m b e	b c b z	b z o m w f	b f f w			
	Boscombe Down	1032.3	-8	E'S	3	b c	61	55	8	1	-	2-3	2-3	3000	1031.5	-2	E NE	2	z	58	75	6	-	-	0	0	-	0	*	b m o z o b	b	b m o j f	b m o j f b f m			
	Thorney Island	1032.4	-4	E NE	2	c	60	65	8	7	-	3+	3+	1000	1031.6	0	ESE	1	b	58	75	7	5	-	Tr	Tr	4000	0	*	c	c b c b	b	b m w b	b m w b		
	Lympne	1032.4	-6	E NE	2	c	58	75	8	5	-	3+	3+	2500	1031.8	0	NE	2	b	55	85	8	-	-	0	0	-	3	*	c m o c	b c b	b e	c m o c			
	Manston	1033.0	-6	E NE	1	c	55	65	5	5	-	3+	3+	3000	1032.4	-2	-	0	b	54	85	8	-	-	0	0	-	0	*	c m o c	c b c b	b e	c m o c			
2	Shoeburyness	1032.8	-4	E'S	2	b c	62	65	6	5	-	4-6	4-6	4000	1032.0	+4	SE'E	1	b	57	75	8	-	-	0	0	-	0	*	c m o b c m o	c m o c b	b m o w	b e c m o w			
	Felixstowe	1032.7	-2	ESE	2	z	63	65	6	1	-	1	1	4000	1031.7	-4	SE	2	b	57	75	7	-	-	0	0	-	0	1	c m o b m o	b z o b	b b m o w	b m o w b m o			
	Gorleston	1032.7	-4	SE'S	2	b	61	65	7	1	-	1	1	3500	1032.0	-6	SE'S	2	z	58	65	6	-	-	0	0	-	0	2	b f g w m o b	b b c b m o	b m o b f w	b f u b f			
	Mildenhall	1032.7	-6	-	0	b	66	65	7	1	-	1	1	3000	1031.5	-2	NE	1	z	60	85	6	-	-	0	0	-	0	*	c m o z a y	c z o y, b, c	c m o c m	c m c m o			
	Cranwell	1032.4	-2	SW'S	1	c	64	55	6	5	-	3	3	4000	1031.7	-2	SSE	1	c	60	75	7	5	-	3+	3+	4000	0	*	c m o z a y	c z o y, b, c	c m o c m	c m c m o			
3	Birmingham	1032.4	0	E	2	b c	64	55	6	5	-	2-3	2-3	800	1031.7	-2	ESE	2	m	59	65	4	-	-	0	0	-	1	*	f c b c	b c b z	b m	b b o f			
	Upper Heyford	1032.6	-8	-	0	z	63	65	6	-	-	0	0	-	1031.2	-2	E	1	z	60	65	6	-	-	0	0	-	0	*	b m o	b m o	b m o j f	b m o f			
4	Ross-on-Wye	1031.8	-8	NE	2	z	62	65	6	-	-	0	0	-	1031.1	-6	E	1	z	61	75	6	-	-	0	0	-	0	*	f c f b z	b m o	b m o j f	b m o f			
5	Hartland Point	1031.4	-6	NE	3	b c	58	75	7	1	-	4-6	4-6	3000	1030.2	-4	SSE	2	b c	58	75	8	1	4	-	2-3	2-3	3000	1	2	b c	b c	b e b	b b c		
	Bristol ...	1032.3	-10	E	1	b	63	55	7	1	-	1	1	3500	1030.9	-4	ESE	1	z	60	65	6	4	-	Tr.	Tr	4500	0	*	c m o w f r b	b z o	b z o	b z o f f w			
	Portland Bill	1031.5	-4	E	4	c	58	85	8	7	-	7-8	10	2500	1030.4	-6	E	4	c	59	85	5	7	-	7-8	10	4000	0	3	c	b e b	b e b	b e			
	Plymouth	1031.5	-6	-	4	c	61	75	7	5	-	3+	3+	3000	1030.9	-6	E	3	b c	58	75	7	5	-	2-3	2-3	3000	0	2	c m o c	c b c	b m o w	b m o b m w			
	The Lizard	1030.6	+2	E	5	b c	63	65	8	6	-	4-6	4-6	2500	1029.6	-6	E NE	5	b c	58	75	8	8	6	-	4-6	4-6	2000	0	4	c b c	b e	b e	c		
	Scilly (St. Mary's)	1030.3	0	SE'E	4	c	61	65	8	5	-	3	3	1800	1030.0	-8	E'N	4	c	59	85	8	8	6	-	7-8	3+	1500	0	3	c	c b c c	b e	b e o		
	Guernsey	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
6	Pembroke	1033.2	0	SSE	3	b	60	75	8	-	-	0	0	-	1031.4	0	NW'N	1	b	58	75	8	-	4	-	0	1	-	0	2	b c	b l o c m o	b e w	i f b e c		
7	Holyhead (Valley)	1032.1	+2	W	1	z	63	75	6	5	-	4-6	7-8	4000	1030.8	-6	NE	1	z	60	75	6	-	3	-	0	2	-	0	1	c m o	b c l o c m o	c m o	c b o b m o		
	Chester (Sealand)	1032.1	-2	-	0	z	65	65	6	8	-	3+	3+	5000	1031.2	-6	NW	1	z	60	75	6	3	-	2-3	7-8	3000	0	*	c f m z o	c l o c c z o	b m f w	b m e f			
8	Manchester	1032.4	-2	SSE	1	z	64	65	5	3	-	4-6	3+	3500	1031.7	-6	-	0	m	61	85	4	5	-	3+	3+	5000	0	*	c f f m z o	c z o z m o	c m w f	c m w f			
10	Spurn Head	1032.4	0	SW	1	z	63	75	6	5	7	4-6	10	3500	1031.9	-4	SE	1	z	58	92	6	5	7	-	4-6	3+	4000	0	2	o m	c m o	o m o	o m o		
	Catterick	1032.0	-6	NE	1	c	63	65	7	5	-	10	10	5000	1031.6	-2	SE	1	c	62	65	8	5	-	3+	3+	7200	0	*	c m o z o c	c e z o c	c f f	b e e f			
	Tynemouth	1032.0	0	N	2	z	59	97	5	5	-	3+	3+	2800	1031.2	-2	N	1	c	56	92	6	5	-	3	3	2100	0	2	c m o	c m o	c b e f	b e e f			
11	St. Abbs Head	1032.0	0	NW'N	1	b	58	85	6	2	-	1	1	2000	1031.2	-4	SE	1	b	55	92	6	-	-	0	0	-	0	1	f b f m	b c m o	b e m o c	b f e			
	Leuchars	1032.1	+2	ESE	2	b c	66	65	7	8	-	2-3	2-3	3500	1031.5	-2	E	2	b c	59	75	7	5	-	4-6	4-6	4000	0	*	b m o b l o c b	b l o c	c m o b e m	b e m o c m o			
12	Ranfurly (Abbots L.)	1031.9	-2	SE	1	z	66	55	5	3	-	7-8	3	4000	1031.7	-2	-	0	z	62	75	6	7	-	3	3	4000	0	*	a f b f b c m	c	c m o b e m	b e c b e m w			
	Falkdalemuir	1031.5	+2	NNE	2	b c	61	65	7	7	-	4-6	4-6	4000	1031.4	0	-	0	c	58	75	7	7	-	7-8	7-8	2500	0	*	c b c	b c	b e c	c			
	Point of Ayre	1032.1	0	ESE	2	z	64	85	6	1	3	1	7-8	2000	1031.6	-4	-	0	b c	60	92	7	4	3	-	1	2-3	4000	0	0	c z o c	c b c	f f e z o	z o w e		
13A	Tiree	1031.7	+2	SE	2	c	60	85	7	5	-	3	3	2500	1031.4	-4	-	0	c	58	92	8	5	-	3	3	3500	0	2	c	b c	c	c			
13B	Stornoway	1031.3	+6	SSE	3	b c	62	85	8	1	4	2-3	2-3	4000	1031.3	0	SSE	3	c	59	85	8	8	7	-	7-8	10	2000	1	2	c b c	b c	c	c		
16	Dalwhinnie	1031.8	-2	W	1	c	61	75	8	5	-	3+	3+	4000	1031.7	0	SW	1	0	58	85	6	5	-	10	10	4000	0	*	o c	c o	c o	o c			
	Aberdeen	1031.9	+4	SE'E	2	c	63	65	7	7	-	7-8	7-8	3100	1031.8	+2	S	2	0	59	75	6	5	-	3	3	2700	0	0	b e z o c	c z o	b e z o *	c z o			
	Wick	1031.7	+6	NW'N	2	c/d	62	85	9	5	-	3+	3+	2500	1031.9	+4	NW'W	2	z	57	92	6	5	-	10	10	300	1	*	c c i d e v	c u o m o	c m o	c o m o o			
16	Sumburgh	1030.4	+8	W	3	b c	57	85	8	5	7	2-3	4-6	1000	1030.9	+6	W	2	d f	54	97	4	5	-	10	10	200	1	*	c j f b c	b a c i d o f	d	c i r a m o j f			
17	Blackod Point...	1030.1	0	S	2	c	64	65	7	-	5	0	7-8	-	1029.5	-2	SW	2	c	60	75	7	-	7	-	0	10	-	0	1	b c	c	b e	c		
18	Malin Head	1031.2	+6	E	1	c	61	92	7	8	-	7-8	7-8	2500	1030.3	-6	NW'W	2	c	59	97	6	6	7	-	7-8	3+	800	1	1	c	c	e z c	c		
	Aldergrove	1031.8	-2	-	0	z	63	65	6	8	3	7-8	3	2500	1031.0	-6	-	0	c	61	85	7	5	-	3+	3+	3000	1	*	c z o	c	b e b m o	b m o j f			
19	Birr Castle	1031.0	-2	SSE	1	c	66	65	8	1	-	2-3	3	2500	1030.1	0	SSE	1	b c	62	75	8	-	3	8	0	4-6	-	0	*	b c c	c b c	b	e		
20	Valencia Obay.†	1029.5	-6	SE'S	3	c	63	75	7	5	3	7-8	3	4000	1029.4	+4	SE	3	c	58	75	8	5	-	10	10	4000	0	2	c	c b c c	c	c b c			
	Roches Point	1030.8	0	SE	4	c	60	75	7	5	-	4-6	7-8	2500	1029.9	-6	SE	4	c	58	65	8	5	-	7-8	7-8	2500	0	4	c	b c c	c	c			



Abridged observations of additional stations in the AVIATION WEATHER CODE											
13h. G.M.T. 17th September 18h. G.M.T.				01h. G.M.T. 18th September 07h. G.M.T.							
III, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N	C, C, M, W, V, N, D, D, F, W, N
1095-	02846	26426	53	02835	27226	5-	03748	22228	5-	02777	16127
115 54	03834	20365	53	03844	20325	52	02844	16127	52	08444	12287
203			5-	2337	16117	5-	02953	00028			
206 7-	02966	00026	4-	02965	32125	5-	01864	00024	5-	02755	00028
210 73	02964	30216	5-	02975	05125	5-	01854	2114	5-	02967	00027
220			53	02854	18217				53	02854	03115
230 7-	02967	00027	5-	02967	00027	5-	01765	00015			
245 5-	02976	14316	50	02765	11125	5-	05558	24128	54	02755	00027
260 10	01863	00043	50	05664	04114	--	44103	00043	5-	42448	04148
278 --	02857	26167	50	01875	04125	5-	05661	12101	5-	41468	00048
279 5-	05665	28115	50	01764	24114	50	05562	00002	57	05664	14210
285 5-	02856	28327	5-	02857	00027				5-	03638	28228
288 5-	47355	03128	5-	45357	02147	5-	45268	00048	5-	43367	14147
575 23	02753	00057	43	02861	00027	00	00736	00000	--	48203	00043
301 13	02761	26247	53	05673	28126	00	08430	00010	03	05530	03127
321 53	17564	18246							5-	45358	00043
299 5-	08447	26328				5-	05548	00028			
292 5-	02768	01128				5-	05668	00028	5-	08457	00027
310 --	02638	24228	--	05536	26226				--	05428	26228
614 5-	05578	24148	03	17430	00025				5-	05567	00027
333 8-	03675	16225	00	05630	26210	00	05530	00000	00	-----	00001
334 --	02765	04127	--	01764	08214				--	08303	00028
340 10	05664	28124	00	05630	02110	5-	45368	14148	5-	45366	18140
136 10	05663	12103									
336 14	01862	12313	50	01852	12302				--	46105	12243
350			00	05630	04200	00	08430	14100	00	47230	00040
368						00	08430	32100	50	08425	07345
379			00	00730	08100	00	05530	32100	00	08430	04100
390			00	05630	10110	00	08430	00000	00	43330	00000
382 10	00752	08102	00	05630	04100	00	47130	00040	--	46103	00043
438 5-	02755	06415							5-	03758	04428
430						00	05630	04200			
400 5-	02867	11327	55	00852	08313				00	05630	11303

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



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 18th September
1 S.E. England	Light winds mainly between east and south. Fair or fine; local early morning fog. Average temperature to rather warm by day; cool at night.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Light to moderate southwest winds; mainly cloudy, rather mild.
12 S.W. Scotland & Isle of Man.	
13 A. W. Scotland	
13 B. N.W. Scotland	
14 Mid Scotland	Light to moderate southeast wind, fair to fine; average temperature.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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

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

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

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

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

**GENERAL INFERENCE.**

An anticyclone covering the British Isles is tending to move slowly north and will maintain fair or fine weather generally.

**FURTHER OUTLOOK.**

Little change indicated.

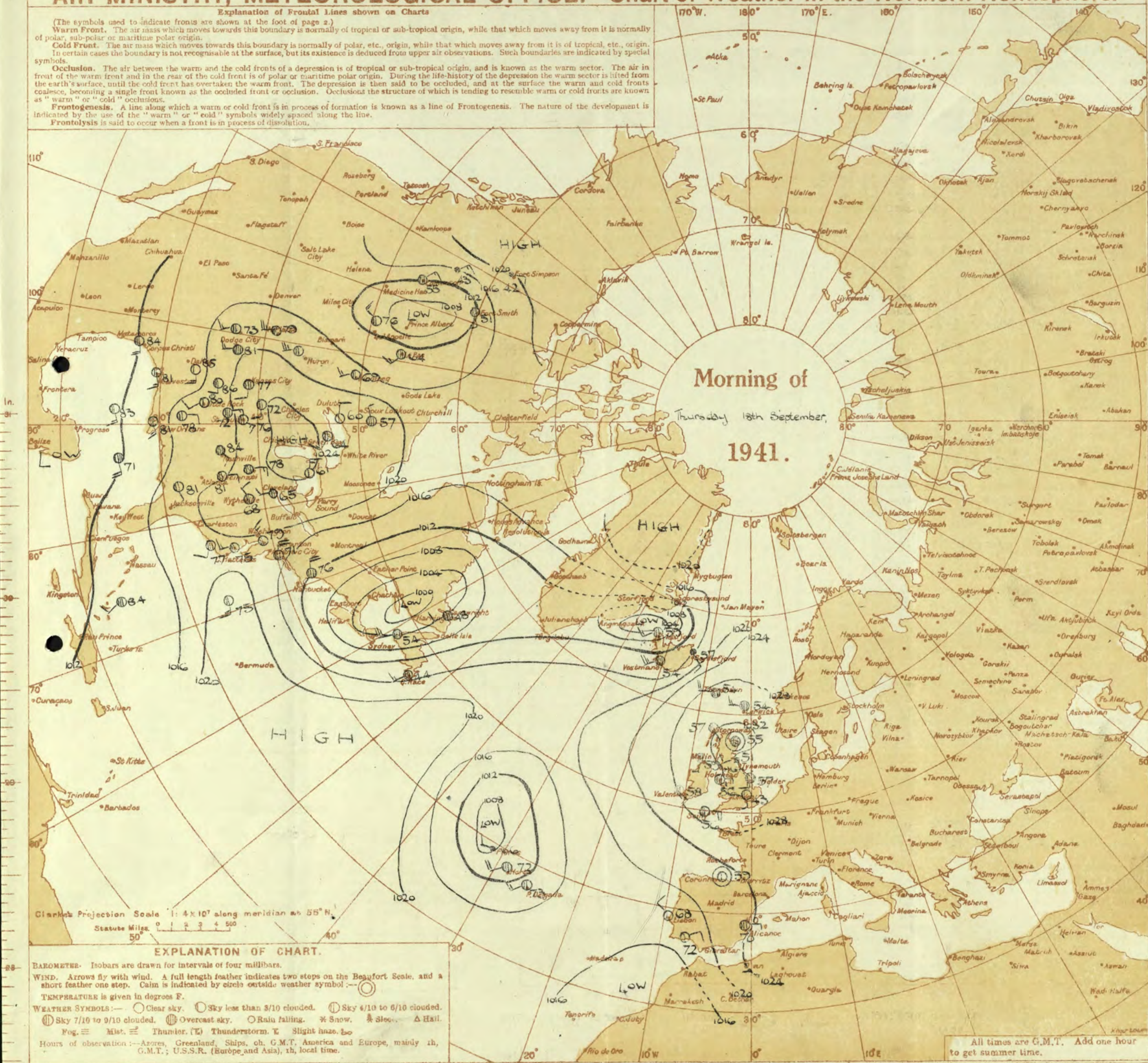
Forecasts issued at 1030 G.M.T.  
 H.M.S.O. Press, Meteorological Office, Dunstable.  
 N. K. JOHNSON, D.Sc., A.R.C.S., Director.  
 220/402. No. 8176. D. 8034. Op. 848. 3500. 8/41



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 18th September															OBSERVATIONS at 7 hr. G.M.T. 18th September															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.		SUN-SHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
					Dir.	Force.					Form.	Amount.	Height of Base (feet).	Dir.	Force.			Form.	Amount.					Height of Base (feet).	Low.	Med.	High.	Low.			Med.	High.	Low.	Med.	High.		Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.	17th Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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EXPLANATION OF FIGURES, LETTERS AND SYMBOLS

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 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).

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

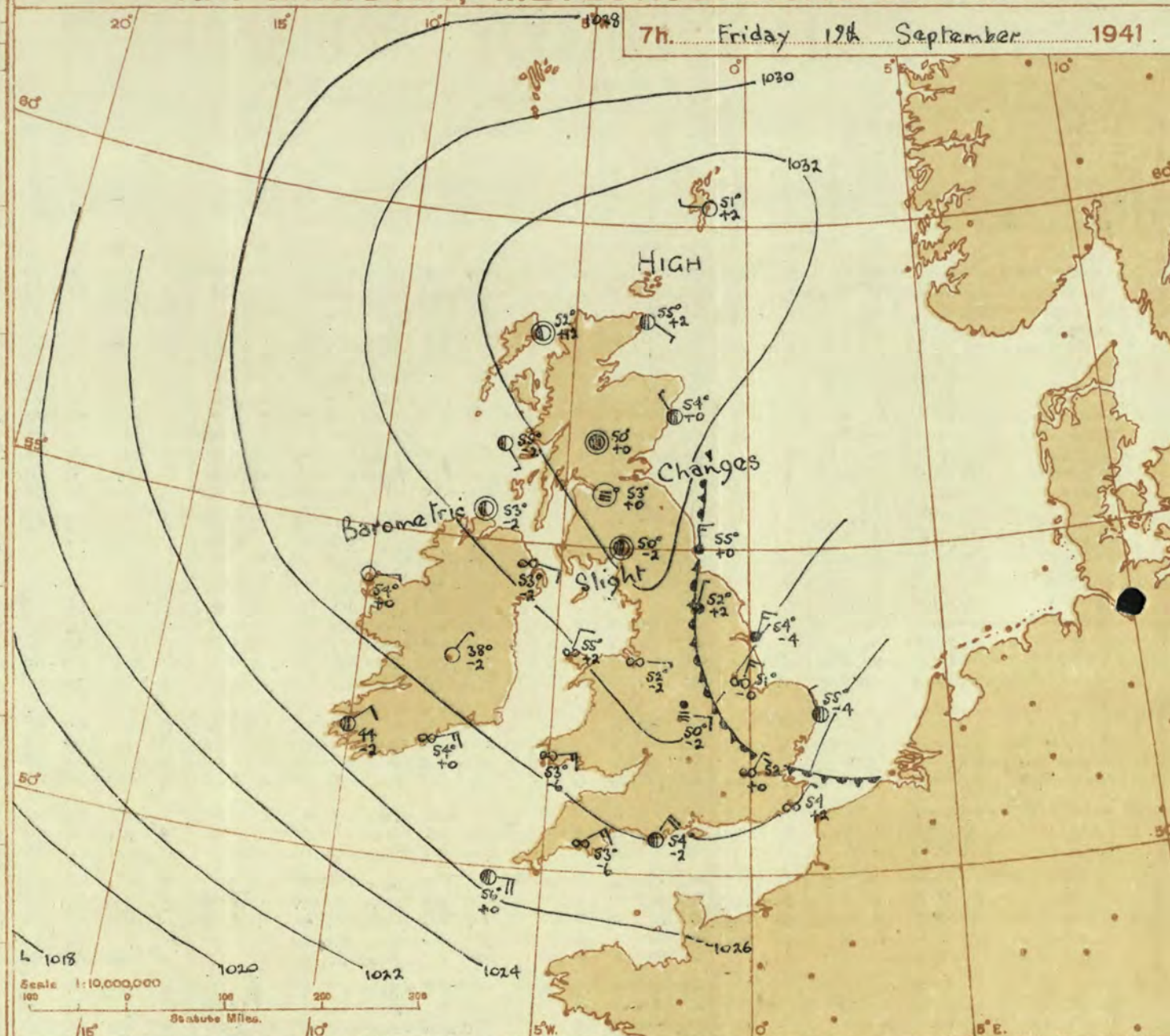


Abridged observations of additional stations in the AVIATION WEATHER CODE											
13h. G.M.T. 12h. G.M.T.				01h. G.M.T. 00h. G.M.T.				07h. G.M.T.			
III	ww	Vh	DDFWN	C	ww	Vh	DDFWN	C	ww	Vh	DDFWN
1095	02767	16227	57	01863	00024	5-	02644	18124	5-	02856	19324
115											
203				8-	02937	00027	00	00390	00010	5-	01944
206	02875	08226	5-	02975	00025	5-	02866	00026	5-	05664	22124
210	02864	08327	5-	01875	07225	5-	02868	12128	5-	02977	14227
220											
230	01864	00014	7-	02866	00016	5-	05765	00015	5-	02867	00017
240	02877	12227	5-	02777	12127	5-	03768	30228	5-	02977	24127
260	05637	02147	5-	03657	03127	5-	03658	06218	5-	05634	00028
278	02756	14226	5-	02767	32227	5-	03667	12227	5-	05668	14128
279	05568	04228	5-	05668	02228	5-	05566	04226	5-	02757	06217
285	05638	14228								03538	12328
288	00772	06342	57	02744	06215	5-	03648	04128	5-	51438	31258
575	05651	14241	00	05630	12100	00	04490	00000	--	48105	08249
801			00	05630	04100	5-	05568	05328	03	05630	09226
821	05657	35127	00	05690	07210	5-	52548	01258	5-	51438	31258
299	01753	28303	5-	02747	04227	5-	05644	02354	5-	52748	28257
298	02765	05125	50	01764	10224	5-	01745	07113	5-	02748	27228
310	05447	04227	--	02648	08228				--	57103	08349
614	05666	06346	5-	05678	07228	5-	08458	02228	5-	05558	04228
338	05690	08100	00	05630	24100	00	05590	00000	5-	05658	04328
334	05643	20114							--	02654	04215
340	05690	08140	00	05590	08200	5-	08468	12228	5-	05655	04127
136			5-	02867	03217	5-	21847	00057	5-	51747	02257
336	01762	08313									
350	05663	04243	53	05663	02315	5-	08448	04228	55	21636	02257
368			00	05690	06200	00	08490	04200			
379	05651	08201	00	05690	06200	5-	05648	02318	5-	05658	02228
390	01763	10313				5-	05556	32116	5-	51547	04157
382	05663	06203	00	05690	04100	5-	05665	02305	5-	05658	02228
435	03758	04228				5-	05656	06216	5-	03648	04328
430	00670	08300				00	05650	04200	00	05590	07200
409	05652	13403	50	05653	14213	00					

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

# AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 19th September 1941.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 19th September 1941
1 S.E. England	Light N.E. Wind; cloudy to overcast; some slight drizzle; rather cool.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Light to moderate E. to S.E. wind; becoming mainly cloudy except locally on the west coast; average temperature to rather cool.
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Light S. to S.E. wind; fair to fine; average temperature.
8 N.W. England	
9 N. Midlands ...	Light variable winds; cloudy; probably some local coast fog; rather cool on coast.
10 N.E. England	
11 S.E. Scotland	As 7-8.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Light S.W. to variable wind; fair to fine; average temperature.
15 N. E. Scotland	
16 Orkneys and Shetlands	Winds east to southeast; light to moderate, freshening slowly in the south; fine to fair; local morning fog in the north; average temperature.
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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

## GENERAL INFERENCE.

An anticyclone centred over N.E. Scotland is drifting slowly Northeast and a depression between the Azores and Portugal will slowly spread Northwards. Cloudy, rather cool conditions will prevail over much of England but it will be mainly fine in Northwest districts.

## FURTHER OUTLOOK.

Dry in most areas but with considerable cloud in many areas.

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.

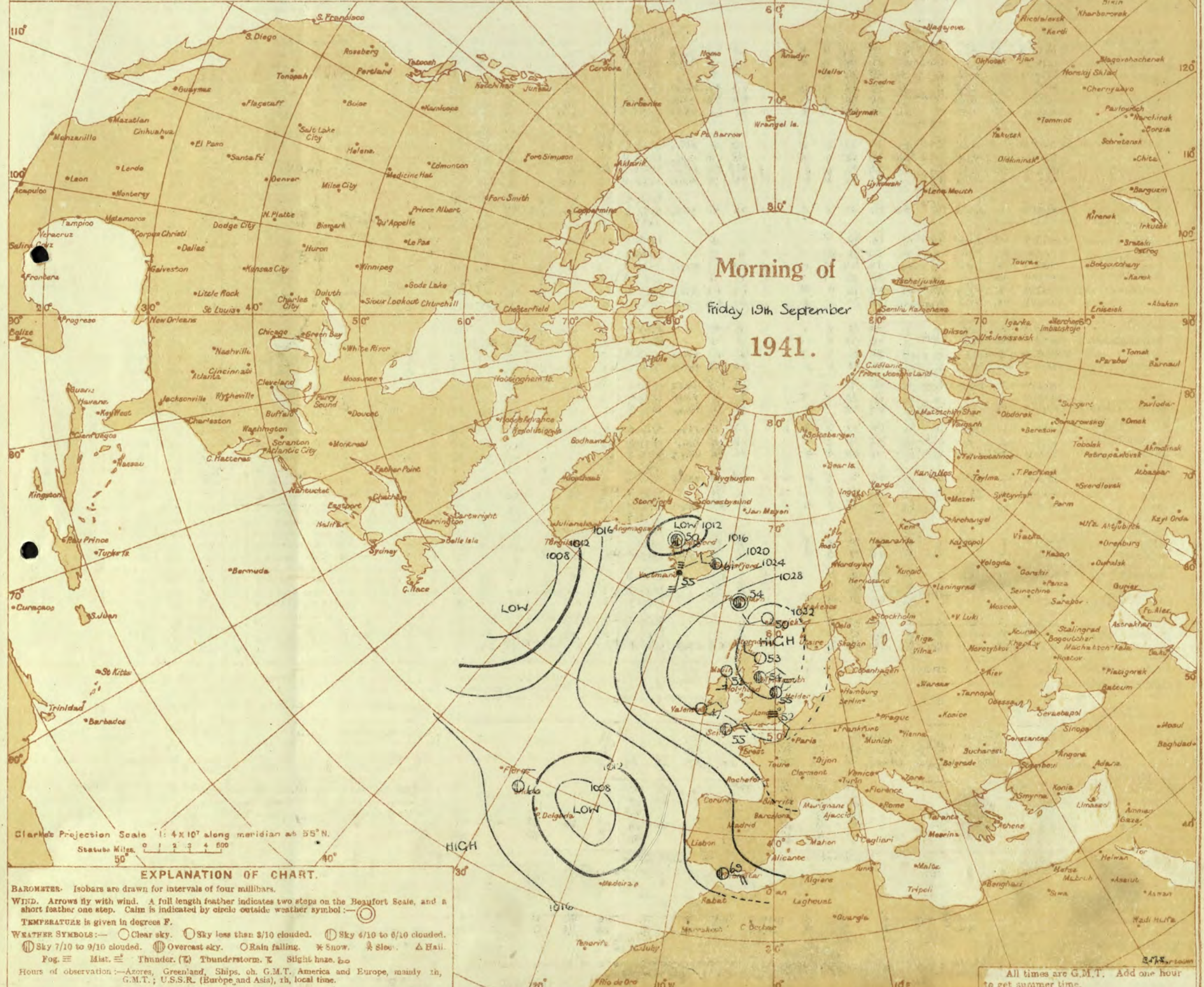
0.269/4120. W. 9/76. 0.5034. 6p. 346. 8500 5/41



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

 BRITISH SECTION  
 Friday 19th September 1941.  
 No. 29156

OBSERVATIONS at 1 hr. G.M.T. 19th September															OBSERVATIONS at 7 hr. G.M.T. 19th September													PAST 24 HOURS.										
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. (15)	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Sea. 0-9	TEMPERATURE.			RAINFALL.		Sun- shine Hrs. 18th			
					Dirac.	Force.					Form.	Amount.	Height of Base (feet).	Dirac.	Force.			Form.	Amount.					Height of Base (feet).	State of Ground.	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.		Day 7h-18h mm.	Night 18h-7h mm.							
																																0-12	0-10	0-10		0-10	0-10	0-9
1	London (Kew) ...	18	1029.2	-6	SE	1	52	92	4	5	-	-	10	10	3000	1028.8	-2	NE	2	Zo	52	85	6	5	-	10	10	1500	0	63	53	41	-	-	-	-	7.5	
	Croydon ...	217	1029.2	-6	SE	1	52	92	4	5	-	-	10	10	3000	1028.4	0	NE	1	Zo	52	92	6	5	-	10	10	3000	0	63	49	42	-	-	-	-	9.0	
	S. Farnborough ...	226	1029.7	-4	-	0	50	92	4	5	-	-	10	10	2000	1028.7	-2	NE	2	Zo	52	85	6	5	-	10	10	3000	0	65	50	41	-	-	-	-	7.2	
	Boscombe Down ...	417	1030.0	+2	ENE	2	49	92	5	-	-	-	0	0	-	1029.4	+2	NNE	1	Zo	51	92	6	5	-	9	9	2500	0	64	47	42	-	-	-	-	8.4	
	Thorney Island ...	10	1029.0	-6	NNE	2	53	92	6	5	-	-	4.6	4.6	2700	1027.9	-2	NE	2	Zo	53	85	6	5	-	9	9	3000	0	65	41	39	-	-	-	-	*	
	Lymington ...	346	1029.0	-6	ENE	1	52	85	6	5	-	-	4.6	4.6	2500	1028.1	+2	NE	1	Zo	54	92	6	5	-	10	10	2100	0	61	47	36	-	-	-	-	2.8	
	Manston ...	154	1029.0	-8	NE	2	56	85	6	5	-	-	10	10	2500	1028.2	0	NE'N	2	c	56	85	7	5	-	10	10	2000	0	61	52	42	-	-	-	-	4.6	
2	Shoeburyness ...	11	1029.2	-10	NNE	3	55	85	6	5	-	-	10	10	2500	1029.0	+2	N'E	3	dd	53	97	5	5	2	-	7.8	10	1500	1	61	50	43	-	-	-	-	8.1
	Felixstowe ...	16	1029.2	-10	NNE	3	55	85	6	5	-	-	10	10	2500	1028.6	+2	N'E	3	dd	54	97	6	5	-	9	9	1000	1	64	52	48	-	-	-	-	7.8	
	Gorleston ...	5	1030.1	-6	NNE	1	56	85	6	5	-	-	10	10	4000	1028.5	-4	NNW	2	c	55	85	7	8	3	-	7.8	9	1600	0	62	50	46	-	-	-	-	*
	Mildenhall ...	19	1030.2	-10	N'E	2	52	92	6	5	-	-	9	9	2200	1029.7	+2	NE'N	1	Zo	52	97	6	5	3	-	7.8	7.8	2800	1	66	48	47	-	-	-	-	6.7
	Cranwell ...	240	1031.2	-6	NNE	2	53	92	6	5	-	-	9	9	2000	1030.4	0	NNE	3	Zo	51	97	6	5	-	10	10	1000	1	66	50	45	-	-	-	-	1.8	
3	Birmingham ...	535	1030.5	-6	NE'E	3	50	92	6	5	-	-	9	9	2200	1030.6	-2	E	2	df	50	97	3	6	-	10	10	450	1	65	50	41	-	-	-	-	4.9	
	Upper Heyford ...	408	1030.5	-6	NE'E	3	50	92	6	5	-	-	9	9	2200	1030.3	+2	NNE	1	ld	51	92	5	5	-	10	10	1600	1	65	48	45	-	-	-	-	*	
4	Ross-on-Wye ...	223	1029.7	-6	ENE	2	49	92	6	5	-	-	10	10	800	1029.7	-6	E'N	2	Zo	49	92	6	5	-	10	10	800	0	65	48	43	-	-	-	-	6.8	
5	Hartland Point ...	299	1027.9	-4	ENE	4	56	85	7	-	-	-	0	0	-	1027.7	+2	ENE	4	bc	52	92	6	5	7	-	2.3	4.6	2200	0	65	51	49	-	-	-	-	10.7
	Bristol ...	209	1029.9	0	SE	1	50	92	4	-	-	-	0	0	-	1029.3	-2	-	0	Zo	48	97	6	5	-	9	9	2000	0	67	46	36	-	-	-	-	*	
	Portland Bill ...	32	1028.2	-4	E	4	56	85	8	1	4	-	2.3	4.6	4000	1027.7	-2	NE	4	c	54	85	7	5	4	-	4.6	10	2500	0	59	51	-	-	-	-	*	
	Plymouth ...	82	1028.8	-10	-	0	47	97	4	-	-	-	0	0	-	1027.4	-6	NE'E	3	Zo	53	92	6	5	-	9	9	2500	0	64	46	38	-	-	-	-	9.4	
	The Lizard ...	240	1027.2	-6	E	5	55	92	7	8	-	-	4.6	4.6	2000	1026.0	-2	E	6	c	57	85	8	6	-	7.8	7.8	1200	0	63	54	-	-	-	-	-	9.2	
	Scilly (St. Mary's) ...	163	1027.1	-6	E'N	4	55	92	7	5	-	-	2.3	2.3	1500	1026.1	0	E	4	c	56	85	7	5	-	9	9	1100	0	66	54	-	-	-	-	-	7.9	
	Guernsey ...	175	1027.1	-6	E'N	4	55	92	7	5	-	-	2.3	2.3	1500	1026.1	0	E	4	c	56	85	7	5	-	9	9	1100	0	66	54	-	-	-	-	-	7.9	
6	Pembroke ...	142	1029.8	0	ENE	3	59	75	5	-	-	-	0	0	-	1028.9	-6	E'N	3	Zo	53	97	8	-	4	-	0	4.6	-	0	3	62	51	-	-	-	-	9.1
7	Holyhead (Valley) ...	26	1029.5	-8	NE	1	50	97	4	-	-	-	0	0	-	1029.3	+2	NNE	2	Zo	55	85	5	5	-	10	10	3000	0	60	49	45	-	-	-	-	*	
	Chester (Sealand) ...	16	1031.4	-2	SE	1	57	85	3	5	-	-	10	10	2500	1030.9	-2	E	1	Zo	52	85	5	5	-	10	10	2400	0	68	50	44	-	-	-	-	2.7	
8	Manchester ...	70	1031.5	+6	E'N	3	55	85	4	5	-	-	7.8	7.8	3000	1031.1	+2	NE	3	Zo	53	85	6	5	-	10	10	2000	0	64	44	38	-	-	-	-	0.3	
10	Spurn Head ...	29	1032.0	0	NNE	3	55	85	7	5	-	-	7.8	7.8	4000	1030.1	-4	NNE	3	ld	54	92	7	4	-	9	9	4000	1	60	51	-	-	-	-	-	6.8	
	Catterick ...	175	1032.5	-6	-	0	51	97	4	5	-	-	9	9	800	1031.9	+2	NNE	1	ld	52	92	4	5	-	10	10	600	0	65	50	39	-	-	-	-	0.4	
	Tynemouth ...	108	1032.6	-6	NE	2	54	85	7	5	-	-	9	9	4000	1031.8	0	N	3	dd	55	97	6	-	2	-	10	10	1500	1	62	54	53	-	-	-	-	*
11	St. Abbs Head ...	280	1033.1	0	SE	1	53	92	7	5	2	-	7.8	10	1500	1031.5	-8	NNW	2	c	54	92	8	5	4	-	7.8	9	2000	0	60	51	-	-	-	-	-	*
	Leuchars ...	36	1033.1	0	N	1	53	97	6	5	-	-	10	10	400	1032.5	+2	WSW	1	Zo	53	97	6	5	-	9	9	2500	0	62	52	48	-	-	-	-	1.8	
12	Renfrew (Abbots L.) ...	19	1032.3	-2	E	2	54	85	4	5	-	-	9	9	5700	1032.5	0	-	0	m	53	92	4	5	-	7.8	9	2000	0	63	52	41	-	-	-	-	1.9	
	Eskdalemuir ...	794	1032.3	-2	E	2	54	85	4	5	-	-	9	9	5700	1032.5	0	-	0	m	53	92	4	5	-	7.8	9	2000	0	63	52	41	-	-	-	-	0.3	
	Point of Ayre ...	30	1030.1	-2	SSE	3	58	85	6	5	2	-	7.8	10	2000	1030.7	0	S'E	3	c	57	85	7	5	2	-	7.8	10	2000	0	64	56	-	-	-	-	-	2.5
13A	Tiree ...	22	1031.5	0	SE	1	57	97	7	3	-	-	0	0	-	1031.3	-2	SE	1	bc	55	85	8	5	-	4.6	4.6	3500	0	65	50	-	-	-	-	-	6.9	
13B	Stornoway ...	80	1031.7	-2	-	0	51	97	7	5	7	-	1	2.3	3500	1032.8	+12	-	0	bc	52	97	7	5	7	-	1	2.3	3500	1	62	48	-	-	-	-	-	5.6
15	Dalwhinnie ...	1176	1031.7	-2	-	0	51	97	7	5	7	-	1	2.3	3500	1032.8	+12	-	0	bc	52	97	7	5	-	10	10	4000	0	62	46	38	-	-	-	-	6.1	
	Aberdeen ...	79	1031.7	-2	-	0	51	97	7	5	7	-	1	2.3	3500	1032.7	0	NW'N	1	c	54	92	6	5	-	10	10	4500	0	59	53	52	-	-	-	-	0.1	
	Wick ...	119	1033.3	-2	ESE	2	55	92	9	5	-	-	9	9	4000	1032.9	+2	ESE	1	c	55	97	9	5	-	9	9	4000	0	59	52	49	-	-	-	-	-	1.0
16	Sumburgh ...	30	1033.0	-8	-	0	53	97	8	5	-	-	Tr	Tr	2500	1033.3	+2	W	1	b	51	97	8	5	3	-	Tr	2.3	4000	1	62	49	36	-	-	-	-	1.0
17	Blackrod Point ...	18	1028.9	-6	E'S	2	52	92	7	-	-</																											



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.	
b, blue sky (not more than a quarter covered with cloud). bc, sky partly cloudy (one half covered). c, generally cloudy. d, drizzle. e, wet air. g, gloom. f, fog, visibility 220-1100 yds. F, thick fog „ less than 220 yds. fa, low fog over sea (coast station). fg, low fog over land (inland station). m, mist, visibility 1100-2200 yds. n, hail. i, intermittent. jf, fog at a distance, but not at station. jp, precipitation within sight of station. ks, storm of drifting snow. k/e, slight storm of drifting snow (generally low). k/S, heavy storm of drifting snow (generally low). s/k, slight storm of drifting snow (generally high). S/k, heavy storm of drifting snow (generally high). KQ, line squall. l, lightning. o, overcast sky. p, passing showers.	q, squalls. r, rain. s, snow. rs, sleet. t, thunder. u, ugly, threatening sky. v, unusual visibility. w, dew. x, hoar frost. y, dry air. z, dust haze: the turbid atmosphere of dry weather. h(r), "hail" or "rain and hail." Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. ro, 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.	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.	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. 1 .. „ wet. 2 .. „ flooded. 3 .. „ frozen hard and dry. 4 .. „ partly covered with snow or hail. 5 .. „ covered with ice or glazed frost. 6 .. „ covered with thawing snow. 7 .. Ground covered with snow, less than 6 ins., deep but ground not frozen. 8 .. „ covered with snow, less than 6 ins., but ground frozen. 9 .. „ covered with snow greater than 6 ins. deep. - .. Fresh snow has fallen in the mountains.	0 No cirriform cloud. 1 Fine Ci not increasing: sparse. 2 Fine Ci not increasing: abundant but not a continuous layer. 3 Anvil Ci (usually dense). 4 Fine Ci increasing: usually in tufts. 5 Ci or Cs increasing: still below 45° altitude: often in polar bands. 6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands. 7 Veil of Cs covering whole sky. 8 Cs not increasing and not covering whole sky. 9 Cc predominating, and a little cirrus. (Cc may occur with any of the types 1 to 8).

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



Abridged observations of additional stations in the AVIATION WEATHER CODE																
13h. G.M.T. 12th September 18h. G.M.T.								01h. G.M.T. 20th September 07h. G.M.T.								
III	C <sub>u</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>u</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>u</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>u</sub>	ww	Vh <sub>N</sub>	DDFWN
109	5-	02867	16127		5-	02867	00027		5-	02856	00025		5-	05638	14228	
115	54	01951	20113		52	02044	20127		53	02044	08227		53	02044	12227	
203					5-	02047	08327		5-	02048	08328					
206	5-	02078	08228		5-	02068	06228		5-	01864	06224		52	52745	00058	
210	7-	02078	08228		5-	02067	05227		5-	02858	00028		5-	02858	00058	
220					73	05754	13216						57	02853	00017	
230	5-	02067	08117		5-	02067	12127		5-	02867	00047		5-	02867	00027	
245	7-	02087	04327		74	01062	03314		5-	52548	04358		53	02746	00057	
260	52	05675	04128		53	01764	04125		5-	21644	08167		5-	05625	30257	
278	5-	02756	15226		54	01864	28314		5-	02868	10218		5-	02775	14125	
279	80	02865	09225		8-	02076	06226		50	05663	00013		53	08464	12144	
285					50	01854	02214						5-	03748	10228	
288	5-	05657	02327		8-	05646	02216		5-	57348	00058		5-	02754	12158	
578	4-	05847	10127		43	05754	10117		00	05690	10200		5-	05657	08127	
801	5-	05653	09325		5*	05667	30227		5-	05564	05214		5-	05668	14228	
321									5-	05658	00028		5-	05658	00028	
299					5-	05648	30328		5-	02748	16228		5-	02847	16227	
29216	01855	07215			50	01765	04115		5-	02748	06128		5-	02658	00028	
310	--	01638	04428		--	01646	04516						--	02648	04328	
614	5-	05644	06228		5-	02767	06227		5-	21548	04158		5-	05668	04158	
333	5-	02855	04315		5-	02758	08228		5-	05658	08228		52	02765	08228	
334	--	02646	04228		--	05447	06228						--	03436	04128	
340	5-	02758	07228		5-	05667	32127		5-	08458	06228		5-	51658	04128	
136	5-	51748	02258		5-	21857	05257		5-	02758	04158		5-	05657	06157	
336	51	02763	04328										51	02763	12328	
350	8-	02748	02458		5-	05648	02268		5-	22658	04268		5-	05647	02227	
308					5-	05667	04327						5-	05648	07328	
379	57	02756	05328		52	02757	06328		5-	51528	04158		5-	02748	04128	
390	5-	05644	06258		5-	02757	04227		5-	05648	06228		5-	05658	06128	
382	5-	02848	02328		5-	05658	04128		5-	21658	04158		5-	05658	02228	
435	5-	03748	04328										8-	02637	02427	
430					5-	02755	04228		5-	05668	04328		5-	05667	06327	
409	50	05665	06315		5-	05667	07227		51	05656	07328		57	05663	06228	
III = Index Number of Station—See M.O. 252 or list issued on 1st of each month. ww, W = Present and past weather—See M.O. 252. h, N <sub>h</sub> = Height and amount of low cloud—See M.O. 252. N = Total amount of cloud—See M.O. 252. C, C <sub>u</sub> = Form of low and medium cloud—See page 1. V = Visibility. F = Force of wind—See page 4. DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).																

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday, 20th September
1 S.E. England	Light easterly wind; cloudy at first, bright periods later. Rather cool.
2 E. England ...	Light easterly wind; mainly cloudy. Rather cool.
3 E. Midlands ...	Light easterly wind; cloudy with slight local drizzle at first, fair later: rather cool.
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	Light easterly wind; fair: rather cool.
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	As 3-4
10 N.E. England	As 2
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light east to southeast wind. Fair; average temperature.
13 A. W. Scotland	
13 B. N.W. Scotland	
14 Mid Scotland	As 3-4
15 N. E. Scotland	
16 Orkneys and Shetlands	Light variable wind. Fair; average temperature.
17 N. W. Ireland	As 12-13 B
18 N. E. Ireland	
19 S. E. Ireland	As 5-8
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 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.

A large anticyclone centred off Northeast Scotland covers the British Isles. Weather will be mainly cloudy but there will be local breaks in the West and extreme South and perhaps some extensive clearances in the South tonight. There will be local drizzle in the Northeast.

FURTHER OUTLOOK.

Fair.

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

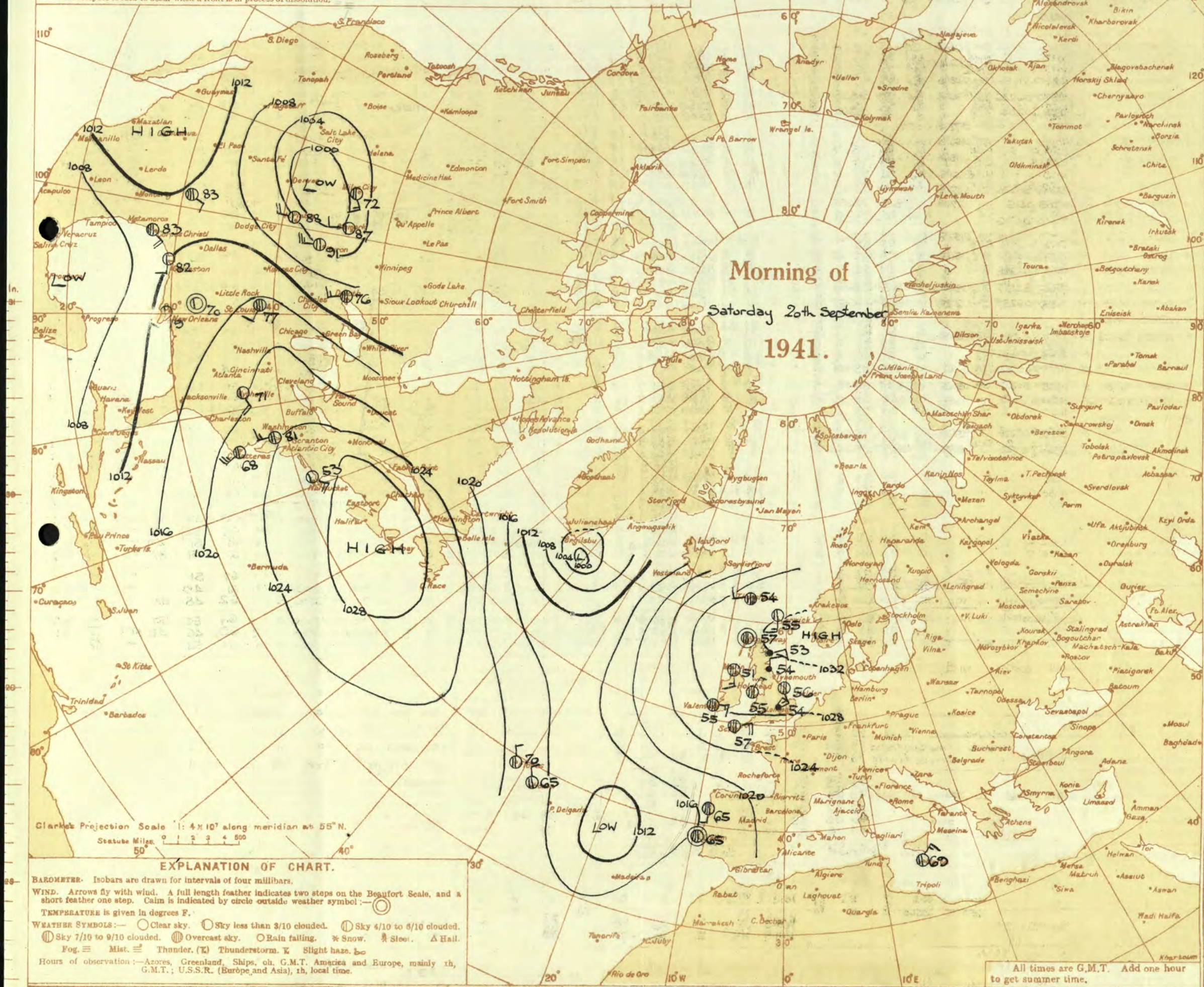
H.M.S.O. Press, Meteorological Office, Dunstable. 229/4120. W. 5176. D. 6034. 6p. 448. 3500. 8/41



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

## Explanation of Frontal Lines shown on Charts

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





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Saturday, 20th September, 1941.  
No. 29, 157.

OBSERVATIONS at 1 hr. G.M.T. 20th September															OBSERVATIONS at 7 hr. G.M.T. 20th September															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.	Direc.	Force.	Weather.	Temp.	Humid.	Visibility.	Cloud.					State of Ground.	Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE.		
					Dirc.	Force.					Form.	Amount.	Height of Base.	Form.	Amount.									Height of Base.	Form.	Amount.	Height of Base.	Max. Day 7h-18h °F.			Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.				
																																			0-12		0-10	0-10
(1)	(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	*	*	*	*	*	*	*	*	*	*	*	1028.1	+4	NE	2	Zo	Sc	85	6	S	-	-	0	0	2500	0	*	59	55	53	-	-	0.1			
	Croydon	217	1027.2	-6	NNE	1	id	54	97	4	S	-	-	10	10	2800	1027.8	+6	NE	2	Sc	92	6	S	-	-	0	0	2500	0	*	59	52	52	Tr	Tr	0.3	
	S. Farnborough	226	1027.9	-6	ESE	2	id	55	92	5	S	-	-	10	10	2800	1028.0	+6	NE/E	2	Zo	Sc	92	6	S	-	-	0	0	3500	1	*	59	(52)	52	Tr	Tr	0.1
	Boscombe Down	417	1027.7	-2	ESE	2	Zo	55	85	6	S	-	-	10	10	2800	1027.9	+6	NE/E	2	Zo	Sc	85	6	S	-	-	0	0	2500	0	*	59	54	52	-	-	0.0
	Thorney Island	10	1027.0	-2	NNE	2	Zo	56	85	6	S	-	-	10	10	3100	1027.3	+6	ESE	2	Sc	85	6	S	-	-	0	0	4000	0	*	63	54	53	-	-	0.0	
	Lympne	346	1027.6	+2	ESE	3	Zo	56	85	5	S	-	-	10	10	2000	1027.5	+2	NE	1	Zo	50	92	5	-	-	0	0	-	0	3	58	49	47	Tr	Tr	0.0	
	Manston	154	1027.9	+2	E'S	2	C	57	75	7	S	-	-	10	10	2400	1028.1	+4	E'S	2	Zo	56	75	6	S	-	-	7.8	7.8	1500	0	*	58	53	47	Tr	-	0.0
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	1028.1	+4	E'S	3	C	56	75	6	S	-	-	10	10	1500	1	*	63	55	53	0.1	0.2	2.6			
	Felixstowe	15	1028.0	0	ESE	3	C	50	75	7	S	-	-	10	10	2000	1028.2	+8	ESE	4	Zo	58	75	6	S	-	-	10	10	2000	1	3	63	55	53	Tr	Tr	0.4
	Gorleston	5	1028.8	0	E'S	4	0	59	75	6	S	-	-	10	10	1500	1029.4	+6	E'N	2	Zo	59	75	6	S	-	-	10	10	1800	0	3	61	55	52	Tr	Tr	0.2
	Mildenhall	19	1029.0	+2	NNE	1	Zo	54	97	6	S	-	-	9	9	3000	1029.3	+12	E	2	C	54	97	7	S	-	-	10	10	2000	0	*	61	53	51	Tr	-	0.1
	Cranwell	240	1029.5	+2	ESE	1	Zo	53	97	6	S	-	-	10	10	1000	1029.7	+6	ESE	2	Zo	53	97	6	S	-	-	10	10	2000	1	*	58	52	51	Tr	Tr	0.1
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	1029.7	+4	E	2	Zo	53	92	5	S	-	-	10	10	800	1	*	57	51	50	0.3	-	0.0			
	Upper Heyford	408	1028.3	0	NE	1	dodo	54	97	6	S	-	-	10	10	2100	1028.7	+6	ESE	1	Zo	53	92	6	S	-	-	10	10	2000	1	*	58	52	*	Tr	-	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	1028.6	+6	E'N	2	Zo	54	97	6	S	-	-	10	10	800	0	*	57	53	52	Tr	-	0.0			
5	Hartland Point	299	1026.5	+2	ESE	3	bc	55	85	7	S	-	-	2.3	2.3	2500	1027.1	+6	NE	3	C	56	97	7	S	-	-	9	9	2200	0	3	58	54	52	-	-	0.6
	Bristol	209	1028.0	+2	SSE	1	Zo	55	92	6	S	-	-	10	10	4000	1028.3	+6	ESE	1	C	54	85	7	S	3	-	4.6	10	3500	0	*	58	54	52	-	-	0.0
	Portland Bill	32	1026.4	+4	ESE	4	0	57	92	7	S	-	-	10	10	2500	1026.0	+2	C	57	85	7	S	2	-	7.8	-	2500	0	4	60	54	-	-	-	0.0		
	Plymouth	82	1026.5	+2	E	2	Zo	57	85	6	S	-	-	0	0	2000	1027.2	+4	ESE	3	C	57	75	7	S	-	-	9	9	2500	0	2	60	55	48	-	-	2.7
	The Lizard	240	1025.4	0	E'S	5	C	57	75	7	S	2	-	7.8	9	1500	1025.8	+8	ESE	4	C	57	85	7	S	6	-	7.8	9	1000	0	4	60	56	-	-	2.2	
	Scilly (St. Mary's)	163	1025.5	+2	E'N	4	C	57	92	6	S	-	-	0	0	1500	1025.5	+4	ESE	3	C	57	97	7	S	3	-	7.8	9	1400	0	4	(64)	56	-	-	3.8	
	Guernsey	175																																				
6	Pembroke	142	1027.7	0	NE/E	4	C	56	85	7	S	-	-	9	9	3000	1028.5	+6	ESE	4	C	56	85	7	S	-	-	9	9	2500	0	3	59	55	-	-	0.6	
7	Holyhead (Valley)	26	1028.9	-6	NNE	1	Zo	55	97	6	S	-	-	10	10	2500	1029.3	+6	NNE	1	Zo	55	97	4	S	-	-	9	9	3500	0	1	65	51	43	-	-	*
	Chester (Sealand)	16	1029.4	+2	SE	1	m	53	92	4	S	-	-	7.8	7.8	3100	1029.8	+6	-	0	m	54	85	4	S	-	-	10	10	2800	0	*	60	50	43	-	-	0.5
8	Manchester	70	1029.4	0	NE/E	1	m	55	85	4	S	-	-	4.6	4.6	3000	1029.8	+6	E	1	Zo	54	85	5	S	-	-	10	10	2000	0	*	64	51	41	-	-	1.3
10	Spurn Head	29	1029.4	0	SE	3	Zo	56	92	6	S	-	-	7.8	7.8	4000	1029.9	+6	E	2	0	56	92	7	-	2	-	10	10	1500	1	2	59	54	-	Tr	Tr	0.0
	Catterick	175	1030.0	+2	-	0	m	56	75	4	S	-	-	10	10	1500	1030.4	+4	S	1	Zo	51	92	6	S	-	-	10	10	1500	0	*	64	54	51	Tr	-	8.3
	Tynemouth	108	1029.5	+2	N	2	dd	54	92	4	-	2	-	10	10	4000	1029.5	+8	N	2	C	54	92	7	S	-	-	9	9	2400	1	3	58	53	51	Tr	-	*
11	St. Abbs Head	280	1030.2	+12	NNE	2	C	53	97	7	S	4	-	4.6	9	1500	1030.0	-4	SE	1	dodo	52	97	4	S	2	-	7.8	9	1000	1	2	57	51	-	-	*	
	Leuchars	36	1030.3	-2	ESE	1	dd	54	97	7	S	-	-	10	10	700	1029.8	+2	-	0	id	52	97	6	S	-	-	9	9	1500	1	*	61	52	50	-	0.6	0.2
12	Renfrew (Abbots I.)	19	1030.6	0	-	0	Zo	55	92	5	S	-	-	9	9	4000	1030.3	+2	ESE	1	C	54	92	7	S	-	-	9	9	3500	0	*	62	53	50	Tr	Tr	0.0
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.8	+2	-	0	pr	50	92	8	S	-	-	9	9	1500	0	*	61	49	43	Tr	Tr	1.2
	Point of Ayre...	30	1029.4	0	E'S	3	C	58	85	8	S	2	-	7.8	10	3000	1029.5	0	S	2	Zo	58	92	6	S	4	-	2.3	9	3000	0	2	62	51	-	-	4.7	
13A	Tiree	22	1030.9	0	-	0	C	53	97	7	S	-	-	7.8	7.8	3500	1030.6	-4	-	0	C	55	97	8	S	-	-	9	9	3500	0	2	62	51	-	-	5.0	
13B	Stornoway	80	1031.0	0	-	0	C	57	92	8	S	7	-	7.8	10	3500	1029.5	-4	-	0	C	56	92	9	S	7	-	9	9	3500	0	1	61	51	-	-	7.9	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.1	-4	-	0	0	49	97	7	S	-	-	7.0	10	1500	0	*	59	44	36	-	-	0.2
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.1	-2	SSE	1	C	53	97	6	S	7	-	7.8	9	800	1	1	62	(52)	47	-	-	1.4
	Wick	119	1032.2	-2	NNE	1	bc	53	92	9	S	-	-	4.6	4.6	5700	1030.6	-8	NE	2	dodo	53	97	5	S	-	-	10	10	100	1	*	51	49	-	-	0.2	
16	Sumburgh	30	1032.9	-2	-	0	C	55	85	8	S	-	-	10	10	4000	1031.8	-2	SSE	2	of+	52	97	2	S	-	-	10	10	2150	1	*	61	51	37	*	-	10.7
17	Blacksod Point	18	1027.7	0	ESE	2	C	58	85	7	-	7	-	0	7.8	-	1028.5	+4	-	0	C	57	92	6	-	7	-	0	10	-	0	1	67	51	-	-	*	
18	Malin Head	84	1029.3	-2	S	3	bc	51	92	7	9	-	-	4.6	4.6	4000	1029.2	+2	S	3	C	52	92	7	S	8	-	4.6	7.8	1500	0	1	61	49	-	-	6.0	
	Aldergrove	268	1030.4	0	-	0	Zo	50	92	6	S	-	-	7.8	7.8	2500	1029.9	+2	-	0	C	53	92	7	S	-	-	9	9	3500	0	*	62	48	40	-	-	5.4
19	Birr Castle	173	1028.1	+2	SE	1	C	55	85	7	S	-	-	10	10	2500	1028.8	+4	SE	1	C	53	92	8	S	1	-	7.8	10	2500	0	*	64	52	50	0.1	Tr	5.3
20	Valentia Obey.	30	1027.5	+2	E	3	Zo	55	85	6	S	-	-	7.8	7.8	4000	1027.5	+6	ESE	2	bc	47	97	7	S	3	-	4.6	4.6	4000	0	3	63	46	42	-	-	8.1
	Roches Point	22	1027.9	0	E'N	2	C	56	85	8	S	-	-	9	9	1500	1027.6	+6	ESE	3	q/pr	56	85	8	S	-	-	9	9	1500	0	4	64	54	-	-	Tr	-

[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.

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

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



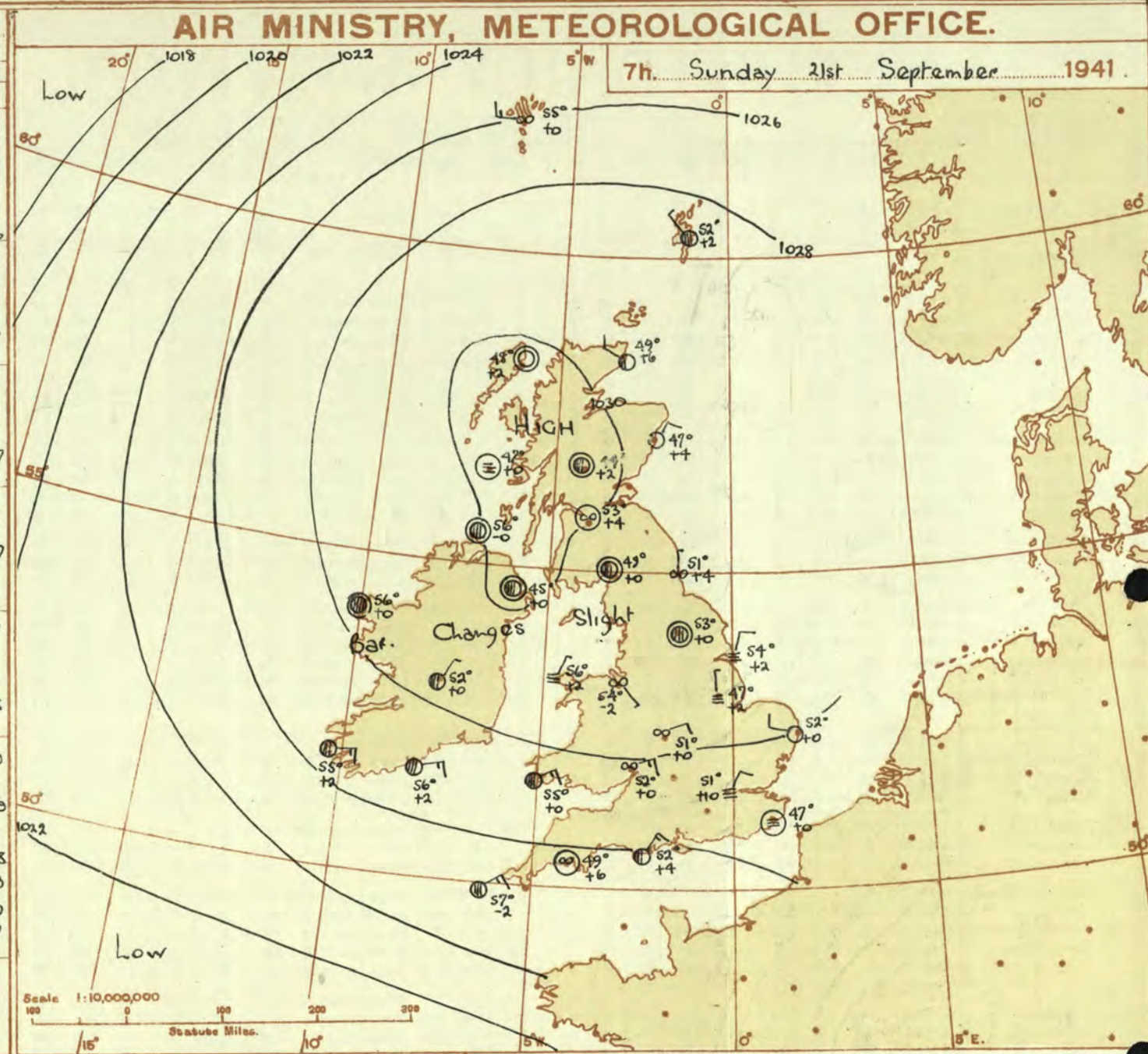
AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Sunday 21st September 1941.  
No. 29158

OBSERVATIONS at 13h. G.M.T. 20th September															OBSERVATIONS at 18h. G.M.T. 20th September															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. 0-9 (8)	Cloud.					Barom. at M.S.L. (15)	Change in 8 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.				
				Dir.	Force. 0-12 (4)					Form.	Amount. Low 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 (25) (26)					Height of Base (feet) (28)	7h.—18h. 20th (37)	18h.—18h. 20th (38)	18h.—18h. 21st (39)	1h.—7h. 21st (40)							
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1027.7 1027.3 1027.2 1027.4 1026.8 1027.1 1027.7	-10 -10 -14 -10 -10 -14 -6	NE'E ENE ENE E NE'E E NE'E	3 3 3 3 3 3 3	Z. bc Z. Z. Z. Z. Z.	61 62 64 62 65 62 61	65 65 65 65 65 65 75	6 6 6 6 6 6 6	7 5 5 1 1 5 5	3 - 																							



Abridged observations of additional stations in the AVIATION WEATHER CODE											
13h. G.M.T. 20th Sept				18h. G.M.T.				01h. G.M.T. 21st Sept			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub>	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub>	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	8-	02847	17227	5-	03858	18128	5-	02756	22126	51	01644
115	54	01854	12225	52	01944	20227	54	02844	20225	54	02734
203				8-	02948	00028	5-	02848	16228		
206	73	02864	08125	5-	02567	00027	5-	02867	00027	53	01964
210	7-	02868	25228	5-	02967	00027	5-	02868	00028	5-	02876
220				00	05780	17100				00	05630
230	7-	02867	20127	7-	02867	20127	00	00790	00010	5-	04865
245	8-	02957	15227	50	01863	18123	5-	02767	24147	50	00963
260	5-	02868	00028	5-	02867	00027	5-	05568	00028	5-	05676
278	8-	01864	32324	7-	02876	28226	50	05661	00001	5-	02767
279	70	02756	08126	5-	02867	* *	5-	05668	10128	5-	02867
285	5-	03858	24328	5-	03748	10328					
288	5-	02767	08126	5-	02767	14127	5-	41458	00048	5-	05558
575	10	05661	14321	00	05690	00000	5-	01664	00014	5-	05667
801	5-	05558	13228	5-	05557	04227	5-	08458	04128	5-	05668
321	5-	02758	06228	5-	05644	06227	50	05554	06114	--	44209
299	5-	03848	10228	5-	05648	06228	00	05550	26100	5-	41538
292	7-	02758	00028				5-	05658	00028	5-	05567
310	--	02646	04226								
614	5-	05648	06228	5-	05667	06227	00	08490	06121	--	48105
333	5-	02868	06228	5-	02767	06227	50	05663	00023	5-	05667
334				--	03637	04128					
340	7-	02758	05228	5-	05667	05227	5-	05558	04228	00	05680
136	5-	05658	06228	50	05671	05211	00	46190	00040	5-	05638
336	13	02762	08326	51	02762	08328					
350	50	05657	06327	07	05680	02202				--	57209
368	5-	05654	06427	50	01674	04214	50	05648	05313	5-	05548
379	5-	02746	04326	5-	02756	06326	--	48109	04149	--	48209
390	5-	05558	08328	00	05690	09203	00	47290	32140	--	46009
382	5-	05657	05327	00	05690	02210	00	43390	02340	5-	41418
435	50	00741	06401							50	01533
430	50	05661	06411	40	05663	04313	00	05690	04200	00	08490
409	57	02768	06327	57	02665	15127	50	05661	04211	00	05690

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



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 21st September
1 S.E. England	
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

Light easterly wind. Fair with considerable bright periods; fog forming in many places during the night. Average temperature.

Light variable winds. Fair with considerable bright periods; some local fog towards dawn. Average temperature.

Light or moderate west or southwest wind. Fair; average temperature.

As 11-13A.

Light east wind. Fair, but some local fog around dawn. Average temperature.

**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 the British Isles. Weather will be generally fair with some bright periods and with day temperature rising to the seasonal average, but with fog forming in many places during the night, more particularly in Eastern and Midland districts of England.

#### FURTHER OUTLOOK.

No great change.

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

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

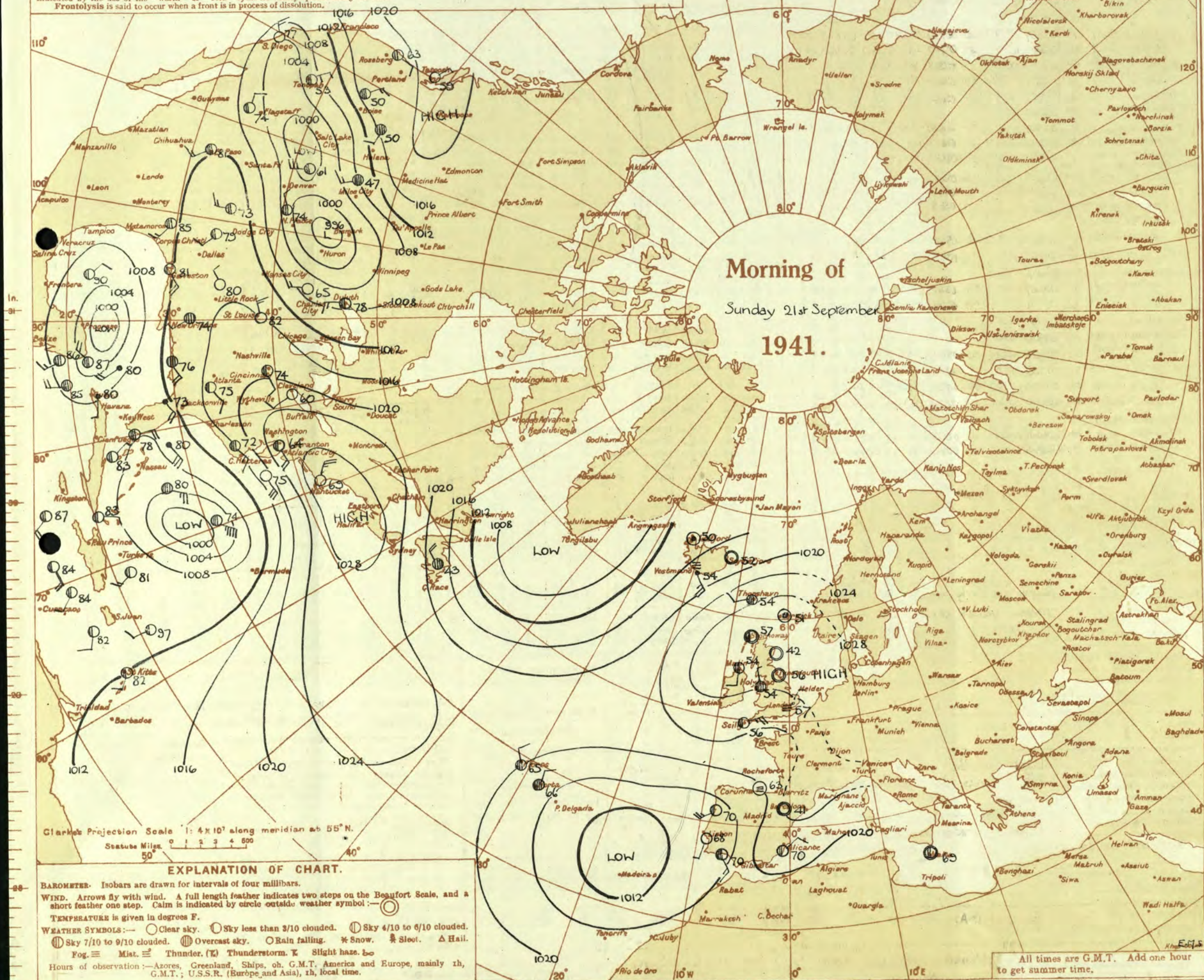
9.28/4120. Pp. 976. D. 8034. Op. 340. 3500. 8/41



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

## Explanation of Frontal Lines shown on Charts

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





AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Sunday 21st September 1941.  
No. 29158

OBSERVATIONS at 1 hr. G.M.T. 21st September.															OBSERVATIONS at 7 hr. G.M.T. 21st September.															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of ground. (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs. (36)					
					Direc. (3)	Force. (4)				Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Direc. (17)	Force. (18)			Form. (23)	Amount. (24)				Height of Base. (feet) (25)	Low 0-10 (26)	Total 0-10 (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 0-10 (12)	Total 0-10 (13)		Low 0-10 (12)	Total 0-10 (13)	Low 0-10 (26)	Total 0-10 (27)	
1	London (Kew) ... 18	1027.0	-2	NE	1	bF	51	97	4	5	-	-	10	10	700	1027.4	+4	N'E	1	F	51	92	4	5	-	-	10	10	1500	1		63	49	36	-	Tr	4.4		
	Croydon ... 217	1027.3	-2	NE	1	bF	43	97	1	5	-	-	10	10	700	1027.0	+10	NE	2	F	51	97	1	-	-	10	10	1500	1		63	48	42	-	Tr	5.6			
	S. Farnborough ... 226	1027.3	-2	NE	1	bF	43	97	1	5	-	-	10	10	700	1027.2	+2	NE	2	of	50	97	2	5	-	-	10	10	200	1		65	42	36	-	Tr	6.5		
	Boscombe Down ... 417	1027.5	-2	NNE	2	Nb	47	97	5	-	-	-	0	0	-	1027.3	+2	NE	2	f	49	97	3	-	-	10	10	1500	0		64	46	41	-	-	3.9			
	Thorney Island ... 10	1026.2	-2	NE	2	Nb	49	97	5	-	-	-	0	0	-	1026.1	+2	NE	2	z	49	97	5	-	-	0	0	-	0		67	46	42	-	Tr				
	Lymington ... 346	1026.5	-4	-	0	bF	48	97	5	-	-	-	0	0	-	1026.7	0	-	0	47	97	2	-	-	0	0	-	0		63	45	37	-	-	10.4				
	Manston ... 154	1026.7	-2	-	0	-	51	97	4	-	-	-	0	0	-	1026.7	+2	-	0	49	97	0	-	-	10	10	1500	0		62	43	38	-	0.2	9.5				
2	Shoeburyness ... 11	1027.0	0	NE	2	z	58	97	4	-	-	-	0	0	-	1027.1	+4	N'E	1	F	52	97	1	5	-	-	10	10	1500	1		63	48	41	-	-	6.3		
	Felixstowe ... 15	1027.0	0	NE	2	z	58	97	4	-	-	-	0	0	-	1026.9	+2	N'W	2	F	51	97	1	-	-	0	0	-	1	2	64	50	48	-	-	6.3			
	Gorleston ... 5	1028.1	-4	NE	3	b	59	85	6	-	-	-	0	0	-	1028.1	0	WNW	2	b/f	52	92	7	-	-	0	0	-	0	2	62	51	45	-	-				
	Mildenhall ... 19	1027.9	-2	-	0	F	48	97	1	-	-	-	10	10	1500	1027.8	+4	NE	2	z	53	97	5	5	-	-	10	10	500	1		67	46	36	-	0.1	3.5		
	Cranwell ... 240	1029.1	-6	NE	2	F	49	85	1	-	-	-	10	10	1500	1029.1	+2	N	1	F	47	97	1	-	-	10	10	1500	1		61	46	46	-	0.1	0.1			
3	Birmingham ... 535														1028.7	0	ENE	2	z	51	92	5	5	-	-	10	10	220	1		59	50	48	-	-	0.0			
	Upper Heyford ... 408	1028.1	0	NE	3	bF	50	97	1	-	-	-	0	0	-	1028.0	+4	NE	2	z	52	97	5	5	-	-	10	10	300	1		60	48	45	-	-			
4	Ross-on-Wye ... 223														1027.4	0	ENE	3	z	52	92	6	5	-	-	10	10	800	0		61	52	51	-	-	0.0			
5	Hartland Point ... 299	1026.4	-4	NE	3	bc	56	85	7	5	-	-	2.3	2.3	2500	1026.0	+2	ENE	3	bc	55	85	6	5	-	-	4.6	4.6	2500	0	3	60	53	51	-	-	0.0		
	Bristol ... 209	1027.8	-2	-	0	m	47	97	4	-	-	-	0	0	-	1027.6	0	NE	1	m/f	51	97	4	5	-	-	10	10	200	0		63	45	33	-	-	2.4		
	Portland Bill ... 32	1025.6	-2	ENE	3	bc	56	85	8	1	-	-	4.6	4.6	4000	1026.8	+4	NE	3	bc	52	92	7	5	-	-	4.6	4.6	2500	0	3	61	50		-	-			
	Plymouth ... 82	1026.2	-6	-	0	m	49	92	4	-	-	-	0	0	-	1026.3	+6	-	0	z	49	97	6	1	-	-	Tr	Tr	3500	0	1	63	49	40	-	-	5.0		
	The Lizard ... 240	1025.3	-4	NE	4	bc	54	92	7	4	-	-	2.3	2.3	2500	1025.3	+4	ENE	4	m	56	92	4	8	-	-	7.8	7.8	300	0	3	62	52		-	-	5.9		
	Scilly (St. Mary's) ... 163	1025.5	-2	NE	3	bc	56	92	6	5	-	-	2.3	2.3	1500	1025.0	-2	NE	3	c	57	92	6	5	-	-	9	9	1400	0	3	64	54		-	-	1.2		
	Guernsey ... 175																																						
6	Pembroke ... 142	1027.6	0	ENE	4	c	56	85	6	8	-	-	10	10	2500	1028.4	0	ENE	3	c	55	85	6	2	-	-	7.8	7.8	2500	0	2	59	54		-	-	0.0		
7	Holyhead (Valley) ... 26	1028.6	-4	N	1	z	54	75	5	5	-	-	10	10	3500	1028.1	+2	NE	1	f	56	92	3	5	-	-	10	10	2500	0	1	64	53		-	-			
	Chester (Sealand) ... 16	1029.0	-4	-	0	cf	56	85	3	5	-	-	10	10	2800	1029.0	-2	SE	1	z	54	85	5	5	-	-	7.8	7.8	3000	0		61	53	51	-	-	0.0		
8	Manchester ... 70	1029.1	-2	ENE	1	z	57	85	5	5	-	-	10	10	3000	1029.0	+2	NE	2	m	54	86	4	5	3	-	7.8	9	3500	0		60	53	50	-	-	0.0		
10	Spurn Head ... 29	1029.7	0	NE	3	z	53	97	5	-	-	-	0	2.3	-	1029.2	+2	NNE	2	cf	54	97	3	-	-	10	10	2400	1	2	59	52		Tr	Tr	0.0			
	Catterick ... 175	1030.1	-4	-	0	z	55	75	6	5	-	-	10	10	2500	1029.7	0	0	0	53	85	7	5	-	-	10	10	2500	0		60	53	51	-	-	0.0			
	Tynemouth ... 108	1029.8	-2	-	0	z	56	75	6	5	-	-	10	10	1500	1029.8	+4	N	1	z	51	85	6	5	-	-	4.6	4.6	2500	1	2	57	51	47	-	-	0.0		
11	St. Abbs Head ... 280	1029.6	0	-	0	c	54	75	7	5	4	-	7.8	9	2500	1029.5	+2	WNW	1	b	55	85	8	4	-	-	Tr	Tr	3000	0	1	56	52		0.6	-			
	Leuchars ... 36	1029.4	+2	WNW	1	z	53	92	6	5	-	-	9	9	3900	1029.5	+2	W	1	c	54	97	7	5	-	-	9	10	3500	0		59	53	51	Tr	-	0.0		
12	Renfrew (Abbots) ... 19	1029.9	0	-	0	z	54	92	6	5	-	-	10	10	4000	1030.1	+4	-	0	z	53	97	5	5	-	-	9	9	4000	0		64	53	50	Tr	-	0.2		
	Eskdalemuir ... 794														1029.8	0	-	0	c	49	92	8	5	-	-	9	9	2500	0		57	48	45	Tr	-	0.0			
	Point of Ayre ... 30	1029.9	0	-	0	c	58	75	7	5	2	-	7.8	10	2500	1029.3	-2	ES	2	c	58	75	8	5	-	-	9	9	4000	0	2	64	56		-	-	2.6		
13A	Tiree ... 22	1030.4	0	-	0	b	49	99	7	5	-	-	0	0	-	1030.3	0	-	0	f	47	97	7	5	-	-	2.3	2.3	2800	0	2	63			-	-	3.4		
13B	Stornoway ... 80	1029.9	+2	-	0	bc	51	92	7	5	4	-	1	2.3	3500	1030.1	+2	-	0	0	48	92	7	1	4	-	Tr	1	3500	0	1	60	18		-	-	0.0		
15	Dalwhinnie ... 1176														1029.5	+2	-	0	0	44	92	8	7	-	-	7.8	7.8	4000	0		59	42	34	-	-	0.0			
	Aberdeen ... 79														1029.5	+4	NW	2	b	47	97	8	-	8	0	Tr	-	1	1	56	44	31	Tr	-	0.2				
	Wick ... 119	1029.0	-2	WS	2	c	51	92	8	5	-	-	7.8	7.8	2500	1029.7	+6	WNW	2	bc	49	97	6	5	-	-	Tr	2.3	1600	1		59	47	43	0.1	-	0.2		
16	Sumburgh ... 30	1028.6	-2	-	0	id.	51	97	4	5	-	-	10	10	400	1029.0	+2	NW	1	c	52	86	8	5	-	-	9	9	1500	0		55	48	36	Tr	Tr	0.1		
17	Blackod Point ... 18	1029.0	-4	SE	1	c	57	75	6	-	7	-	0	9	-	1028.5	0	-	0	0	56	85	7	-	2	-	0	10	-	0	1	63	53</						



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
Monday 22nd September, 1941.  
No. 29,159.

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

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

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. (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	° Humid. (21)	Visibility. (22)	Cloud.				Barom. at M.S.L. mb. (29)	Change in 8 hours. (30)	Wind.		Weather. (33)	Temp. °F. (34)	° Humid. (35)	Visibility. (36)	Cloud.				Barom. at M.S.L. mb. (49)	Change in 8 hours. (50)	Wind.		Weather. (53)	Temp. °F. (54)	° Humid. (55)	Visibility. (56)	Cloud.				Barom. at M.S.L. mb. (69)	Change in 8 hours. (70)	Wind.		Weather. (73)	Temp. °F. (74)	° Humid. (75)	Visibility. (76)	Cloud.				Barom. at M.S.L. mb. (89)	Change in 8 hours. (90)	Wind.		Weather. (93)	Temp. °F. (94)	° Humid. (95)	Visibility. (96)	Cloud.				Barom. at M.S.L. mb. (109)	Change in 8 hours. (110)	Wind.		Weather. (113)	Temp. °F. (114)	° Humid. (115)	Visibility. (116)	Cloud.				Barom. at M.S.L. mb. (129)	Change in 8 hours. (130)	Wind.		Weather. (133)	Temp. °F. (134)	° Humid. (135)	Visibility. (136)	Cloud.				Barom. at M.S.L. mb. (149)	Change in 8 hours. (150)	Wind.		Weather. (153)	Temp. °F. (154)	° Humid. (155)	Visibility. (156)	Cloud.				Barom. at M.S.L. mb. (169)	Change in 8 hours. (170)	Wind.		Weather. (173)	Temp. °F. (174)	° Humid. (175)	Visibility. (176)	Cloud.				Barom. at M.S.L. mb. (189)	Change in 8 hours. (190)	Wind.		Weather. (193)	Temp. °F. (194)	° Humid. (195)	Visibility. (196)	Cloud.				Barom. at M.S.L. mb. (209)	Change in 8 hours. (210)	Wind.		Weather. (213)	Temp. °F. (214)	° Humid. (215)	Visibility. (216)	Cloud.				Barom. at M.S.L. mb. (229)	Change in 8 hours. (230)	Wind.		Weather. (233)	Temp. °F. (234)	° Humid. (235)	Visibility. (236)	Cloud.				Barom. at M.S.L. mb. (249)	Change in 8 hours. (250)	Wind.		Weather. (253)	Temp. °F. (254)	° Humid. (255)	Visibility. (256)	Cloud.				Barom. at M.S.L. mb. (269)	Change in 8 hours. (270)	Wind.		Weather. (273)	Temp. °F. (274)	° Humid. (275)	Visibility. (276)	Cloud.				Barom. at M.S.L. mb. (289)	Change in 8 hours. (290)	Wind.		Weather. (293)	Temp. °F. (294)	° Humid. (295)	Visibility. (296)	Cloud.				Barom. at M.S.L. mb. (309)	Change in 8 hours. (310)	Wind.		Weather. (313)	Temp. °F. (314)	° Humid. (315)	Visibility. (316)	Cloud.				Barom. at M.S.L. mb. (329)	Change in 8 hours. (330)	Wind.		Weather. (333)	Temp. °F. (334)	° Humid. (335)	Visibility. (336)	Cloud.				Barom. at M.S.L. mb. (349)	Change in 8 hours. (350)	Wind.		Weather. (353)	Temp. °F. (354)	° Humid. (355)	Visibility. (356)	Cloud.				Barom. at M.S.L. mb. (369)	Change in 8 hours. (370)	Wind.		Weather. (373)	Temp. °F. (374)	° Humid. (375)	Visibility. (376)	Cloud.				Barom. at M.S.L. mb. (389)	Change in 8 hours. (390)	Wind.		Weather. (393)	Temp. °F. (394)	° Humid. (395)	Visibility. (396)	Cloud.				Barom. at M.S.L. mb. (409)	Change in 8 hours. (410)	Wind.		Weather. (413)	Temp. °F. (414)	° Humid. (415)	Visibility. (416)	Cloud.				Barom. at M.S.L. mb. (429)	Change in 8 hours. (430)	Wind.		Weather. (433)	Temp. °F. (434)	° Humid. (435)	Visibility. (436)	Cloud.				Barom. at M.S.L. mb. (449)	Change in 8 hours. (450)	Wind.		Weather. (453)	Temp. °F. (454)	° Humid. (455)	Visibility. (456)	Cloud.				Barom. at M.S.L. mb. (469)	Change in 8 hours. (470)	Wind.		Weather. (473)	Temp. °F. (474)	° Humid. (475)	Visibility. (476)	Cloud.				Barom. at M.S.L. mb. (489)	Change in 8 hours. (490)	Wind.		Weather. (493)	Temp. °F. (494)	° Humid. (495)	Visibility. (496)	Cloud.				Barom. at M.S.L. mb. (509)	Change in 8 hours. (510)	Wind.		Weather. (513)	Temp. °F. (514)	° Humid. (515)	Visibility. (516)	Cloud.				Barom. at M.S.L. mb. (529)	Change in 8 hours. (530)	Wind.		Weather. (533)	Temp. °F. (534)	° Humid. (535)	Visibility. (536)	Cloud.				Barom. at M.S.L. mb. (549)	Change in 8 hours. (550)	Wind.		Weather. (553)	Temp. °F. (554)	° Humid. (555)	Visibility. (556)	Cloud.				Barom. at M.S.L. mb. (569)	Change in 8 hours. (570)	Wind.		Weather. (573)	Temp. °F. (574)	° Humid. (575)	Visibility. (576)	Cloud.				Barom. at M.S.L. mb. (589)	Change in 8 hours. (590)	Wind.		Weather. (593)	Temp. °F. (594)	° Humid. (595)	Visibility. (596)	Cloud.				Barom. at M.S.L. mb. (609)	Change in 8 hours. (610)	Wind.		Weather. (613)	Temp. °F. (614)	° Humid. (615)	Visibility. (616)	Cloud.				Barom. at M.S.L. mb. (629)	Change in 8 hours. (630)	Wind.		Weather. (633)	Temp. °F. (634)	° Humid. (635)	Visibility. (636)	Cloud.				Barom. at M.S.L. mb. (649)	Change in 8 hours. (650)	Wind.		Weather. (653)	Temp. °F. (654)	° Humid. (655)	Visibility. (656)	Cloud.				Barom. at M.S.L. mb. (669)	Change in 8 hours. (670)	Wind.		Weather. (673)	Temp. °F. (674)	° Humid. (675)	Visibility. (676)	Cloud.				Barom. at M.S.L. mb. (689)	Change in 8 hours. (690)	Wind.		Weather. (693)	Temp. °F. (694)	° Humid. (695)	Visibility. (696)	Cloud.				Barom. at M.S.L. mb. (709)	Change in 8 hours. (710)	Wind.		Weather. (713)	Temp. °F. (714)	° Humid. (715)	Visibility. (716)	Cloud.				Barom. at M.S.L. mb. (729)	Change in 8 hours. (730)	Wind.		Weather. (733)	Temp. °F. (734)	° Humid. (735)	Visibility. (736)	Cloud.				Barom. at M.S.L. mb. (749)	Change in 8 hours. (750)	Wind.		Weather. (753)	Temp. °F. (754)	° Humid. (755)	Visibility. (756)	Cloud.				Barom. at M.S.L. mb. (769)	Change in 8 hours. (770)	Wind.		Weather. (773)	Temp. °F. (774)	° Humid. (775)	Visibility. (776)	Cloud.				Barom. at M.S.L. mb. (789)	Change in 8 hours. (790)	Wind.		Weather. (793)	Temp. °F. (794)	° Humid. (795)	Visibility. (796)	Cloud.				Barom. at M.S.L. mb. (809)	Change in 8 hours. (810)	Wind.		Weather. (813)	Temp. °F. (814)	° Humid. (815)	Visibility. (816)	Cloud.				Barom. at M.S.L. mb. (829)	Change in 8 hours. (830)	Wind.		Weather. (833)	Temp. °F. (834)	° Humid. (835)	Visibility. (836)	Cloud.				Barom. at M.S.L. mb. (849)	Change in 8 hours. (850)	Wind.		Weather. (853)	Temp. °F. (854)	° Humid. (855)	Visibility. (856)	Cloud.				Barom. at M.S.L. mb. (869)	Change in 8 hours. (870)	Wind.		Weather. (873)	Temp. °F. (874)	° Humid. (875)	Visibility. (876)	Cloud.				Barom. at M.S.L. mb. (889)	Change in 8 hours. (890)	Wind.		Weather. (893)	Temp. °F. (894)	° Humid. (895)	Visibility. (896)	Cloud.				Barom. at M.S.L. mb. (909)	Change in 8 hours. (910)	Wind.		Weather. (913)	Temp. °F. (914)	° Humid. (915)	Visibility. (916)	Cloud.				Barom. at M.S.L. mb. (929)	Change in 8 hours. (930)	Wind.		Weather. (933)	Temp. °F. (934)	° Humid. (935)	Visibility. (936)	Cloud.				Barom. at M.S.L. mb. (949)	Change in 8 hours. (950)	Wind.		Weather. (953)	Temp. °F. (954)	° Humid. (955)	Visibility. (956)	Cloud.				Barom. at M.S.L. mb. (969)	Change in 8 hours. (970)	Wind.		Weather. (973)	Temp. °F. (974)	° Humid. (975)	Visibility. (976)	Cloud.				Barom. at M.S.L. mb. (989)	Change in 8 hours. (990)	Wind.		Weather. (993)	Temp. °F. (994)	° Humid. (995)	Visibility. (996)	Cloud.				Barom. at M.S.L. mb. (1009)	Change in 8 hours. (1010)	Wind.		Weather. (1013)	Temp. °F. (1014)	° Humid. (1015)	Visibility. (1016)	Cloud.				Barom. at M.S.L. mb. (1029)	Change in 8 hours. (1030)	Wind.		Weather. (1033)	Temp. °F. (1034)	° Humid. (1035)	Visibility. (1036)	Cloud.				Barom. at M.S.L. mb. (1049)	Change in 8 hours. (1050)	Wind.		Weather. (1053)	Temp. °F. (1054)	° Humid. (1055)	Visibility. (1056)	Cloud.				Barom. at M.S.L. mb. (1069)	Change in 8 hours. (1070)	Wind.		Weather. (1073)	Temp. °F. (1074)	° Humid. (1075)	Visibility. (1076)	Cloud.				Barom. at M.S.L. mb. (1089)	Change in 8 hours. (1090)	Wind.		Weather. (1093)	Temp. °F. (1094)	° Humid. (1095)	Visibility. (1096)	Cloud.				Barom. at M.S.L. mb. (1109)	Change in 8 hours. (1110)	Wind.		Weather. (1113)	Temp. °F. (1114)	° Humid. (1115)	Visibility. (1116)	Cloud.				Barom. at M.S.L. mb. (1129)	Change in 8 hours. (1130)	Wind.		Weather. (1133)	Temp. °F. (1134)	° Humid. (1135)	Visibility. (1136)	Cloud.				Barom. at M.S.L. mb. (1149)	Change in 8 hours. (1150)	Wind.		Weather. (1153)	Temp. °F. (1154)	° Humid. (1155)	Visibility. (1156)	Cloud.				Barom. at M.S.L. mb. (1169)	Change in 8 hours. (1170)	Wind.		Weather. (1173)	Temp. °F. (1174)	° Humid. (1175)	Visibility. (1176)	Cloud.				Barom. at M.S.L. mb. (1189)	Change in 8 hours. (1190)	Wind.		Weather. (1193)	Temp. °F. (1194)	° Humid. (1195)	Visibility. (1196)	Cloud.				Barom. at M.S.L. mb. (1209)	Change in 8 hours. (1210)	Wind.		Weather. (1213)	Temp. °F. (1214)	° Humid. (1215)	Visibility. (1216)	Cloud.				Barom. at M.S.L. mb. (1229)	Change in 8 hours. (1230)	Wind.		Weather. (1233)	Temp. °F. (1234)	° Humid. (1235)	Visibility. (1236)	Cloud.				Barom. at M.S.L. mb. (1249)	Change in 8 hours. (1250)	Wind.		Weather. (1253)	Temp. °F. (1254)	° Humid. (1255)	Visibility. (1256)	Cloud.				Barom. at M.S.L. mb. (1269)	Change in 8 hours. (1270)	Wind.		Weather. (1273)	Temp. °F. (1274)	° Humid. (1275)	Visibility. (1276)	Cloud.				Barom. at M.S.L. mb. (1289)	Change in 8 hours. (1290)	Wind.		Weather. (1293)	Temp. °F. (1294)	° Humid. (1295)	Visibility. (1296)	Cloud.				Barom. at M.S.L. mb. (1309)	Change in 8 hours. (1310)	Wind.		Weather. (1313)	Temp. °F. (1314)	° Humid. (1315)	Visibility. (1316)	Cloud.				Barom. at M.S.L. mb. (1329)	Change in 8 hours. (1330)	Wind.		Weather. (1333)	Temp. °F. (1334)	° Humid. (1335)	Visibility. (1336)	Cloud.				Barom. at M.S.L. mb. (1349)	Change in 8 hours. (1350)	Wind.		Weather. (1353)	Temp. °F. (1354)	° Humid. (1355)	Visibility. (1356)	Cloud.				Barom. at M.S.L. mb. (1369)	Change in 8 hours. (1370)	Wind.		Weather. (1373)	Temp. °F. (1374)	° Humid. (1375)	Visibility. (1376)	Cloud.				Barom. at M.S.L. mb. (1389)	Change in 8 hours. (1390)	Wind.		Weather. (1393)	Temp. °F. (1394)	° Humid. (1395)	Visibility. (1396)	Cloud.				Barom. at M.S.L. mb. (1409)	Change in 8 hours. (1410)	Wind.		Weather. (1413)	Temp. °F. (1414)	° Humid. (1415)	Visibility. (1416)	Cloud.				Barom. at M.S.L. mb. (1429)	Change in 8 hours. (1430)	Wind.		Weather. (1433)	Temp. °F. (1434)	° Humid. (1435)	Visibility. (1436)	Cloud.				Barom. at M.S.L. mb. (1449)	Change in 8 hours. (1450)	Wind.		Weather. (1453)	Temp. °F. (1454)	° Humid. (1455)	Visibility. (1456)	Cloud.				Barom. at M.S.L. mb. (1469)	Change in 8 hours. (1470)	Wind.		Weather. (1473)	Temp. °F. (1474)	° Humid. (1475)	Visibility. (1476)	Cloud.				Barom. at M.S.L. mb. (1489)	Change in 8 hours. (1490)	Wind.		Weather. (1493)	Temp. °F. (1494)	° Humid. (1495)	Visibility. (1496)	Cloud.				Barom. at M.S.L. mb. (1509)	Change in 8 hours. (1510)	Wind.		Weather. (1513)	Temp. °F. (1514)	° Humid. (1515)	Visibility. (1516)	Cloud.				Barom. at M.S.L. mb. (1529)	Change in 8 hours. (1530)	Wind.		Weather. (1533)	Temp. °F. (1534)	° Humid. (1535)	Visibility. (1536)	Cloud.				Barom. at M.S.L. mb. (1549)	Change in 8 hours. (1550)	Wind.		Weather. (1553)	Temp. °F. (1554)	° Humid. (1555)	Visibility. (1556)	Cloud.				Barom. at M.S.L. mb. (1569)	Change in 8 hours. (1570)	Wind.		Weather. (1573)	Temp. °F. (1574)	° Humid. (1575)	Visibility. (1576)	Cloud.				Barom. at M.S.L. mb. (1589)	Change in 8 hours. (1590)	Wind.		Weather. (1593)	Temp. °F. (1594)	° Humid. (1595)	Visibility. (1596)	Cloud.				Barom. at M.S.L. mb. (1609)	Change in 8 hours. (1610)	Wind.		Weather. (1613)	Temp. °F. (1614)	° Humid. (1615)	Visibility. (1616)	Cloud.				Barom. at M.S.L. mb. (1629)	Change in 8 hours. (1630)	Wind.		Weather. (1633)	Temp. °F. (1634)	° Humid. (1635)	Visibility. (1636)	Cloud.				Barom. at M.S.L. mb. (1649)	Change in 8 hours. (1650)	Wind.		Weather. (1653)	Temp. °F. (1654)	° Humid. (1655)	Visibility. (1656)	Cloud.				Barom. at M.S.L. mb. (1669)	Change in 8 hours. (1670)	Wind.		Weather. (1673)	Temp. °F. (1674)	° Humid. (1675)	Visibility. (1676)	Cloud.				Barom. at M.S.L. mb. (1689)	Change in 8 hours. (1690)	Wind.		Weather. (1693)	Temp. °F. (1694)	° Humid. (1695)	Visibility. (1696)	Cloud.				Barom. at M.S.L. mb. (1709)	Change in 8 hours. (1710)	Wind.		Weather. (1713)	Temp. °F. (1714)	° Humid. (1715)	Visibility. (1716)
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Abridged observations of additional stations in the

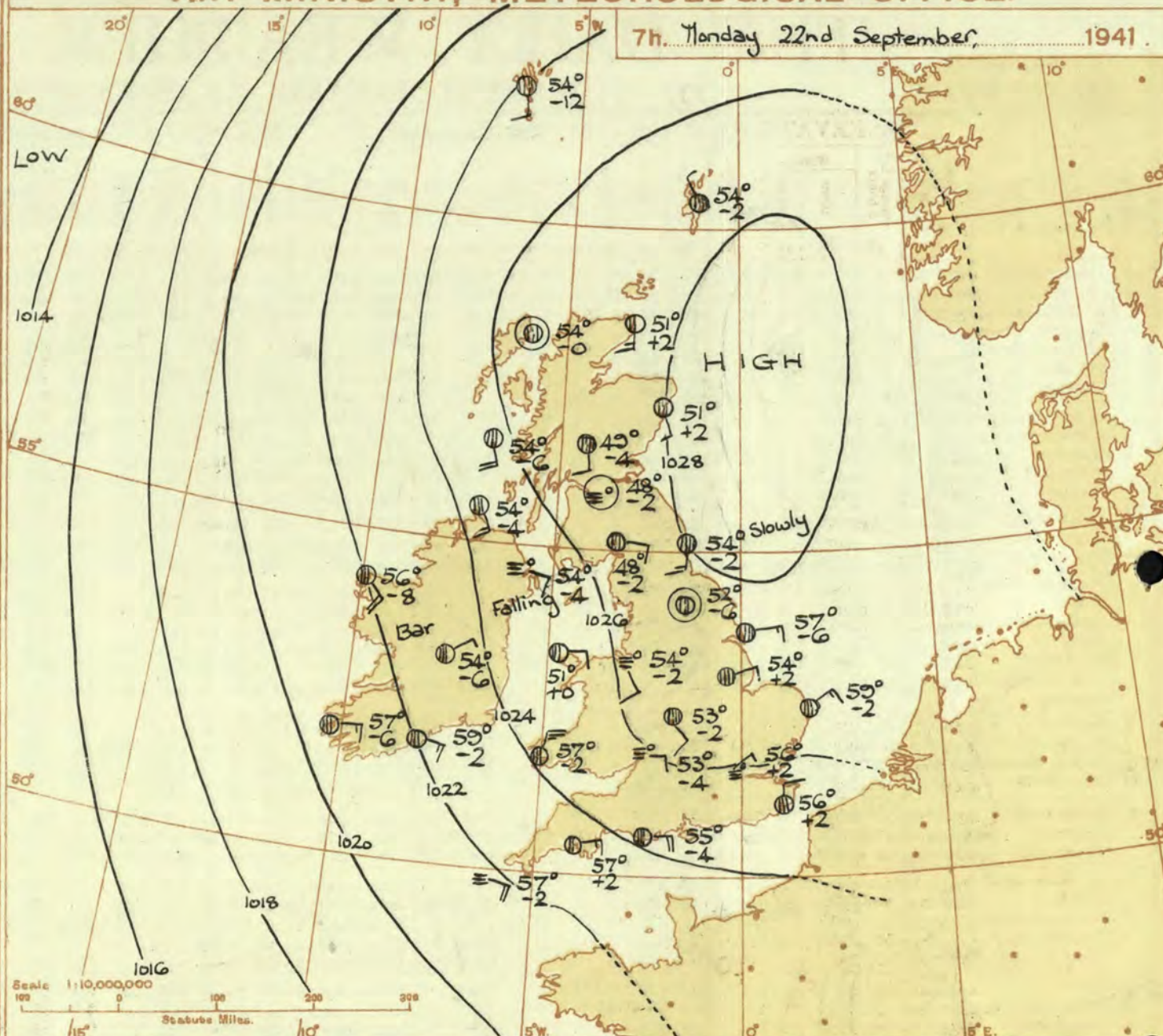
## AVIATION WEATHER CODE

13th. G.M.T. 21st Sept.				18th. G.M.T.				01th. G.M.T. 22nd Sept.				07th. G.M.T.			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	50	05643	27302	53	05644	05104	5-	00643	18423	5-	05563	15323			
115	51	02734	20226	51	02734	20226	54	01844	16225	54	01844	12215			
203	02	05890	16200					00	05890	12100	52	05844	12218		
206		05661	08111	00	00890	08100	00	05890	32200	5-	09646	26226			
210		01862	32212	00	00790	08200	00	00790	00000	00	04790	06140			
220															
230	5-	02007	00027	5-	02967	00027	00	05790	00000	50	05662	00012			
245	50	01763	12213	5-	02747	06217	5-	05648	10228	5-	05648	08228			
260	4-	01865	04115	00	00790	06100	5-	05558	00008	5-	02887	12127			
278	5-	01765	30225	5-	00862	30222	00	00790	16110						
279	13	01863	02314	50	01863	08203	00	00790	04300	5-	05656	08216			
285										5-	03748	04228			
288		01764	02314	03	02790	06216	5-	08458	13128	5-	02658	09128			
575				5-	05667	07227	00	00790	08110	5-	05548	16128			
301	00	05690	08210	00	05590	08300	00	08490	08200	5-	08458	12228			
321	5-	05648	02228	5-	05648	04228	5-	41428	07248	5-	05557	07127			
290	50	05652	32222	00	43252	02142	5-	05548	02228	5-	05548	02228			
292	5-	05655	00125	5-	02767	08227	5-	05658	00028	5-	05668	04128			
310										--	46109	12349			
614	5-	05657	04227	5-	05666	06226	5-	08448	04228	5-	08448	06128			
333	00	05690	08300	00	00790	10100	5-	05658	24128	54	05652	02223			
334										--	02435	04216			
340	10	05662	10302	5-	05657	10317	5-	08438	08328	5-	05538	12228			
136	5-	05647	04327				5-	05648	06228	5-	05658	05128			
336															
350	5-	05647	02327	56	05647	02315	50	08438	04428	5-	05648	04228			
368	5-	05656	02126	5-	05657	06328	50	05547	06317	5-	05648	06328			
379	5-	05638	04348	00	05690	04200	5-	43308	06248	5-	05528	08228			
390	10	05653	06143	00	05590	09110	5-	08438	08328	5-	05538	00028			
382	5-	05628	06228	00	05690	02100	--	48109	05249	5-	05528	06228			
435	50	00771	06201							50	00651	02301			
430	50	05661	02301	50	05663	04104	50	05652	04302	00	08490	04200			
409	50	05664	12214	00	05690	14200	00	05690	06300	50	41407	11547			

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

## AIR MINISTRY, METEOROLOGICAL OFFICE.

7th. Monday 22nd September, 1941.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 22nd September, 1941
1 S.E. England	Light or moderate E. wind. Fair or fine during day; Local fog in early morning; average temperature.
2 E. England ...	Light or moderate E. wind; mainly cloudy but some bright intervals during the day in South of area; rather cool.
3 E. Midlands ...	Light or moderate E. to S.E. wind; mainly cloudy but some bright intervals during day; average temperature.
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	Light or moderate E. to S.E. wind; fair or fine; average temperature.
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	Light S.E. or variable wind; mainly dull, rather cool.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	As 5-8.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Light S.E. to S. wind; mainly cloudy, temperature rather below average.
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	As 5-8.
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 centred off East Scotland is decreasing in intensity and moving N.E. and a depression off Portugal is likely to move N.N.E. and eventually affect the British Isles. No great change is expected in the next 24 hours and weather will continue fair generally though there will be considerable cloud in the N.E. half of the country. A deterioration may commence in the S.W. tomorrow and spread very slowly N.E.

**FURTHER OUTLOOK.**  
 Mainly similar but weather becoming less settled in the Southwest.

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

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

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

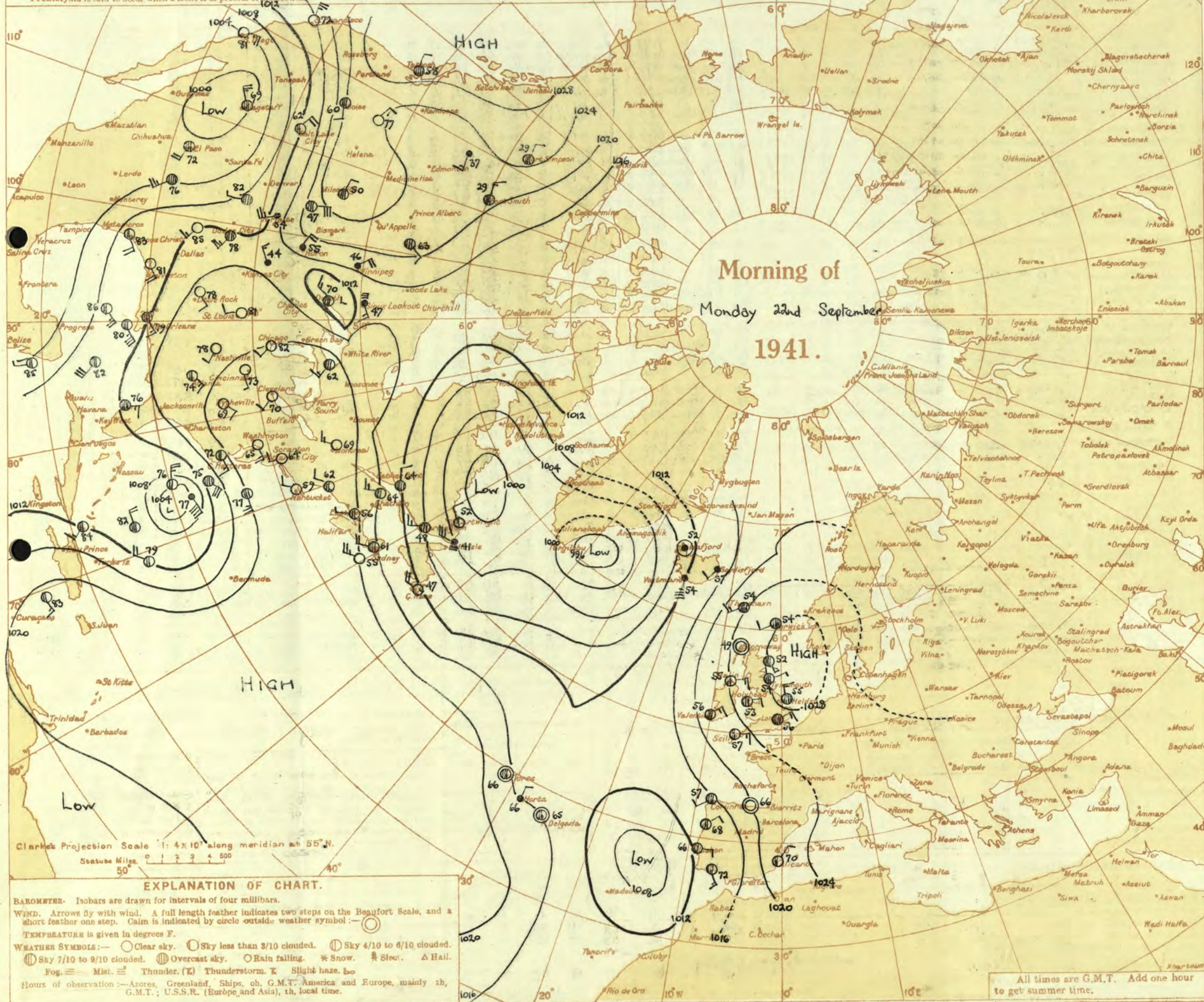
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# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)  
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.  
**Cold Front.** The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.  
 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 September 1941.  
 No. 20,150.

OBSERVATIONS at 1 hr. G.M.T. 22nd September.															OBSERVATIONS at 7 hr. G.M.T. 22nd September.															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 22nd Hrs.			
					Direc.	Force.					Low.	Med.	High.	Form.	Amount.			Height of Base (feet).	Direc.					Force.	Low.	Med.	High.	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
1	London (Kew) ... 217	18	1026.3	-2	E	3	56	92	5	5	10	10	700	1025.7	0	NE	2	57	85	5	5	10	10	2500	1	5	65	55	41	Tr	—	3.2	3.2						
	Croydon ... 226	217	1026.3	-4	E	2	56	92	3	5	10	10	400	1025.6	+2	NE/E	1	56	92	4	5	10	10	700	0	5	65	55	54	Tr	—	5.2	5.2						
	S. Farnborough ... 417	226	1026.1	-4	E	4	53	97	4	5	4.6	4.6	200	1026.1	+2	E	3	53	97	4	5	10	10	1600	0	5	61	51	47	—	—	3.0	3.0						
	Boscombe Down ... 10	417	1026.2	-6	NE	2	53	92	6	5	2.3	2.3	3600	1024.1	-2	NE/E	3	53	97	5	5	0	0	—	0	5	67	48	45	—	Tr	—	4	4					
	Thorney Island ... 346	10	1026.0	-2	NNE	2	54	97	3	5	0	0	—	1025.0	+2	N	2	56	97	5	5	7.8	7.8	500	0	5	68	52	41	—	—	10.3	10.3						
	Lymington ... 154	346	1026.0	-4	NE	1	56	97	3	5	0	0	100	1025.1	+4	NE/N	2	58	97	5	5	7.8	7.8	500	0	5	68	52	45	Tr	0.2	9.0	9.0						
2	Shoeburyness ... 11	11	1026.3	-2	NE/E	3	55	97	5	5	2.3	2.3	800	1025.6	+2	NNE	3	57	97	5	5	10	10	1500	0	5	64	54	46	—	—	5.0	5.0						
	Felixstowe ... 16	11	1027.3	-2	NNE	2	57	92	6	5	10	10	1500	1026.5	-2	NE	3	59	85	7	5	10	10	1200	0	2	63	52	48	—	—	4	4						
	Gorleston ... 5	16	1027.1	-6	E	2	56	92	5	5	7.8	7.8	1400	1026.0	0	NE/N	1	56	97	6	5	10	10	1500	0	5	67	52	45	—	—	4.4	4.4						
	Mildenhall ... 19	5	1027.1	-6	E	2	56	92	5	5	7.8	7.8	1400	1026.0	0	NE/N	1	56	97	6	5	10	10	1500	0	5	67	52	45	—	—	4.4	4.4						
	Cranwell ... 240	19	1028.2	-6	NE/N	2	54	97	4	5	10	10	500	1027.0	+2	E	2	54	97	5	5	10	10	1000	0	5	61	53	53	—	Tr	—	1.2	1.2					
3	Birmingham ... 535	535	1027.0	-6	E	4	53	97	4	5	10	10	500	1026.1	-2	SE	2	53	97	5	5	10	10	800	1	5	59	52	47	—	—	0.1	0.1						
	Upper Heyford ... 408	535	1027.0	-6	E	4	53	97	4	5	10	10	500	1026.1	-2	SE	2	53	97	5	5	10	10	800	1	5	59	52	47	—	—	0.1	0.1						
4	Ross-on-Wye ... 223	408	1027.0	-6	E	4	53	97	4	5	10	10	500	1026.1	-2	SE	2	53	97	5	5	10	10	800	1	5	59	52	47	—	—	0.1	0.1						
	...	223	1027.0	-6	E	4	53	97	4	5	10	10	500	1026.1	-2	E	2	53	97	4	5	10	10	800	0	5	(58)	51	40	—	—	0.0	0.0						
5	Hartland Point ... 299	299	1024.1	-6	E	4	56	85	6	—	0	0	—	1023.1	+6	ESE	4	53	97	6	5	10	10	450	1	3	62	51	50	—	—	9.1	9.1						
	Bristol ... 209	299	1024.1	-6	E	4	56	85	6	—	0	0	—	1023.1	+6	ESE	4	53	97	6	5	10	10	450	1	3	62	51	50	—	—	9.1	9.1						
	Portland Bill ... 32	209	1024.2	-10	NE	4	57	92	7	—	0	0	—	1025.7	+2	E	3	53	97	6	5	10	10	800	0	5	59	49	36	—	—	0.1	0.1						
	Plymouth ... 82	32	1024.0	-12	E	3	56	92	5	—	0	0	—	1022.9	-4	E	4	55	92	6	5	10	10	800	0	4	63	53	—	—	—	—	—	—					
	The Lizard ... 240	82	1024.0	-12	E	3	56	92	5	—	0	0	—	1022.9	-4	E	4	55	92	6	5	10	10	800	0	4	63	53	—	—	—	—	—	—					
	Scilly (St. Mary's) ... 163	240	1023.6	-8	E	4	57	97	4	5	4.6	4.6	1500	1022.8	+4	E	5	57	97	4	5	10	10	1500	0	2	63	55	47	—	—	8.2	8.2						
	Guernsey ... 175	163	1022.8	-10	E	3	57	97	5	5	2.3	2.3	1500	1021.4	-2	ESE	4	57	97	2	—	10	10	450	0	4	65	56	—	—	—	—	3.0	3.0					
6	Pembroke ... 142	175	1024.1	-6	E	3	53	97	6	—	0	0	—	1024.1	-2	N/E	5	57	97	6	8	5	10	10	3000	0	3	63	(53)	—	—	—	—	7.6	7.6				
	Holyhead (Valley) ... 26	142	1025.6	-6	E	2	53	92	4	5	10	10	3100	1024.3	0	E	2	51	92	6	5	10	10	4000	0	1	65	49	40	—	—	—	—	—	—				
	Chester (Sealand) ... 16	26	1027.5	-2	ESE	1	48	97	4	5	2.3	2.3	2600	1025.9	-2	SE/S	2	54	92	4	5	10	10	900	0	5	67	48	38	—	—	8.6	8.6						
8	Manchester ... 70	16	1027.7	-4	NE/E	1	49	97	4	—	0	0	—	1026.2	0	E	3	56	85	4	5	10	10	3500	0	5	66	47	36	—	—	8.3	8.3						
10	Spurn Head ... 29	70	1028.5	-4	NNE	3	55	92	6	5	10	10	2500	1027.0	-6	E	3	57	85	6	8	5	10	10	2500	0	2	60	53	—	Tr	Tr	0.9	0.9					
	Catterick ... 175	29	1028.3	-6	—	0	52	85	4	5	10	10	1700	1027.2	-6	—	0	52	85	6	5	10	10	1700	0	2	60	51	50	—	—	0.6	0.6						
	Tynemouth ... 108	175	1028.4	-4	E	2	54	75	6	5	10	10	2500	1028.0	-2	S	3	54	75	6	5	10	10	2400	0	2	61	54	50	—	—	—	—	—	—				
11	St. Abbs Head ... 280	108	1029.2	-6	ESE	1	54	75	7	5	4.6	4.6	2500	1027.5	-4	SE	2	52	85	8	5	10	10	1700	0	1	59	51	—	—	—	—	—	—					
	Leuchars ... 36	280	1029.1	-10	E	3	54	92	6	5	10	10	1700	1027.1	-2	NE	1	54	85	7	5	10	10	1800	0	5	67	53	49	—	—	—	—	—	—				
12	Renfrew (Abbots I.) ... 19	36	1028.9	-6	E	2	52	92	5	—	4.6	4.6	900	1027.4	-2	—	0	48	97	4	5	10	10	1200	0	5	61	46	39	—	—	—	—	—	—				
	Eskdalemuir ... 794	19	1028.9	-6	E	2	52	92	5	—	4.6	4.6	900	1027.4	-2	—	0	48	97	4	5	10	10	1200	0	5	61	46	39	—	—	—	—	—	—				
	Point of Ayre ... 30	794	1027.3	-2	SSE	4	56	85	7	—	0	0	—	1025.6	0	SE/S	4	56	85	6	5	10	10	2000	0	4	63	54	—	—	—	—	—	—	—				
13A	Tiree ... 22	30	1028.6	-10	SSE	2	53	97	7	5	2.3	2.3	2800	1025.8	-6	SSE	4	54	85	7	5	10	10	2500	0	4	61	46	—	—	—	—	—	—	—				
13B	Stornoway ... 80	22	1027.9	-14	—	0	49	97	7	—	0	0	—	1026.4	0	—	0	54	92	8	5	10	10	2500	1	1	60	47	—	—	—	—	—	—	—				
15	Dalwhinnie ... 1176	80	1027.9	-14	—	0	49	97	7	—	0	0	—	1026.4	0	—	0	54	92	8	5	10	10	2500	1	1	60	47	—	—	—	—	—	—	—				
	Aberdeen ... 79	1176	1027.1	-10	SSE	3	52	92	7	5	4.6	4.6	1600	1027.8	+2	SSE	1	51	75	6	5	10	10	1500	0	1	65	43	35	—	—	—	—	—	—				
	Wick ... 119	79	1027.1	-10	SSE	3	52	92	7	5	4.6	4.6	1600	1027.8	+2	SSE	1	51	75	6	5	10	10	1500	0	1	65	43	35	—	—	—	—	—	—				
16	Sumburgh ... 30	119	1028.7	-6	—	0	53	97	5	5	10	10	300	1027.6	-2	NW	1	54	85	6	5	10	10	2500	1	5	57	51	41	—	—	—	—	—	—				
17	Blackod Point ... 18	30	1024.3	-12	SSE																																		



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTIONTuesday 23rd September 1941.  
No. 29,160.

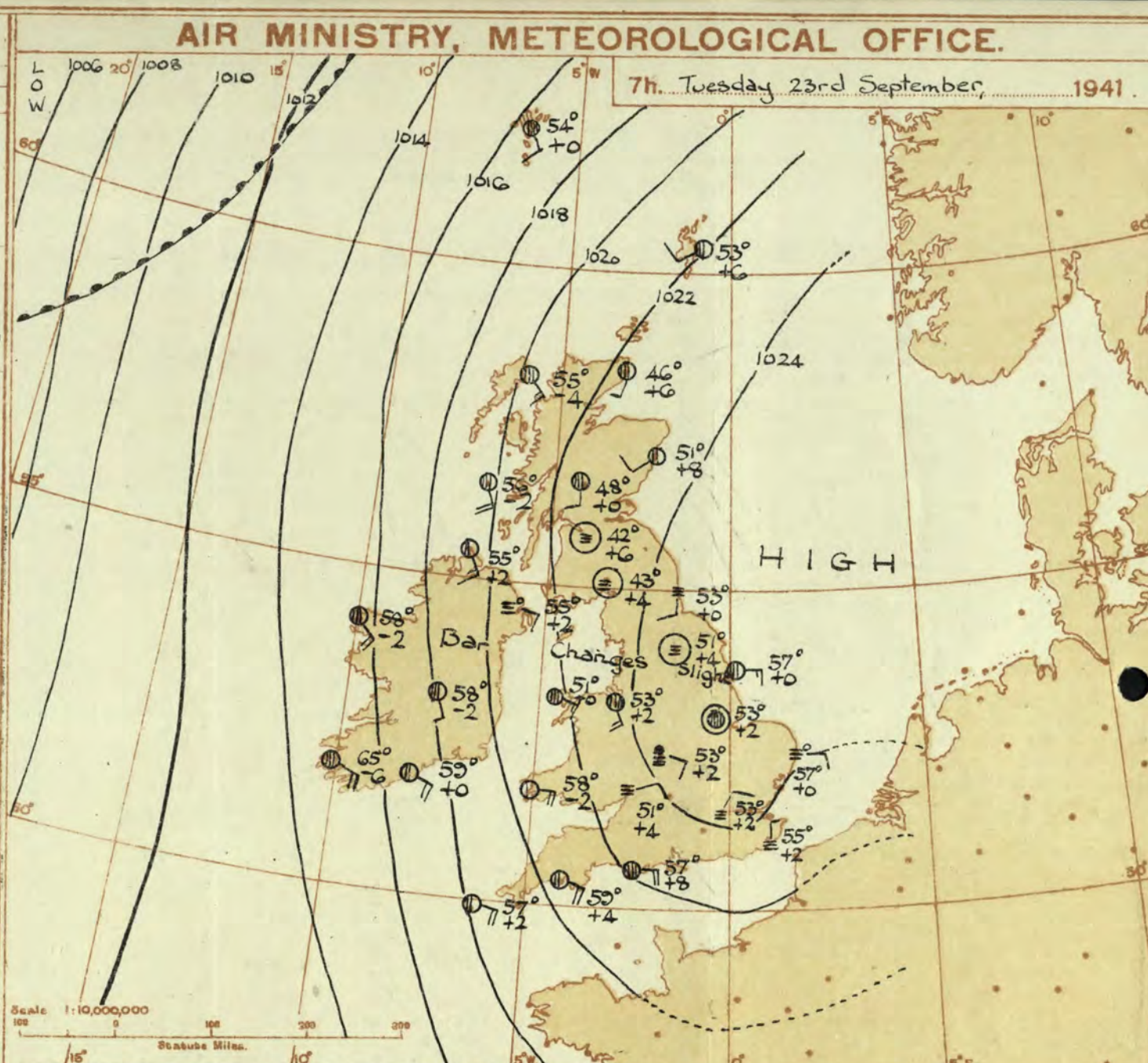
OBSERVATIONS at 13h. G.M.T. 22nd September														OBSERVATIONS at 18h. G.M.T. 22nd September														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (8)	° Humid. (7)	Visibility. 0-9 (6)	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)	State of Ground. 0-9 (30)	Sea. 0-9 (31)	WEATHER.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				Direc. (3)	Force. 0-12 (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (14)	Direc. (17)			Force. 0-12 (18)	Form. (23)					Amount. (24)	Height of Base. (feet) (28)	7h.—18h. 22nd (37)	18h.—18h. 22nd (38)				18h.—22nd 23rd (39)	1h.—7h. 23rd (40)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
1	London (Kew)...	1024.2	-12	W	2	N	65	75	6	-	-	0	0	1023.4	-2	W	2	N	61	85	6	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0</

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.



Abridged observations of additional stations in the AVIATION WEATHER CODE															
13h. G.M.T. 22nd September 18h. G.M.T.				01h. G.M.T. 20th September 07h. G.M.T.											
III	C <sub>1</sub>	wwVhN <sub>1</sub>	DDFWN	C <sub>2</sub>	wwVhN <sub>2</sub>	DDFWN	C <sub>3</sub>	wwVhN <sub>3</sub>	DDFWN	C <sub>4</sub>	wwVhN <sub>4</sub>	DDFWN	C <sub>5</sub>	wwVhN <sub>5</sub>	DDFWN
109	5	05657	12427	5	03748	12428	5	03758	16228	50	05561	18221			
115	84	02844	12225	52	02744	28127	52	02844	20227	54	02744	12226			
203	5	02838	16328	5	03838	16326	5	01844	16324						
206	5	02757	08328	5	02765	20125	00	00790	00000	53	05656	30127			
210	5	02867	11427	54	00761	12101	00	05590	18210	5	05567	17117			
220	52	05754	16428	52	05754	17428									
230	5	05764	14226	5	05647	10127				53	05664	03124			
245	5	03758	14328	5	05657	18327	5	05655	00025	00	05690	00017			
260	5	05658	00028	5	02767	12127	00	08490	00010	50	41462	00046			
275	5	02548	12428	00	03690	12200	50	05653	10313						
279	5	05667	11227	00	05590	04110	00	05590	04100	00	45390	00241			
285	5	03748	12428	50	11745	10415									
288	5	02748	11328	5	05665	12227	50	41453	17143	5	05658	10128			
575	03	05590	08325	53	05667	12117	5	05588	08218	53	05536	10318			
501	5	05554	15324	00	05590	13300	5	05546	12216	5	08457	11227			
321	5	05658	08228	5	05667	08227	5	08448	00028	5	05548	08128			
299				5	05547	08227	5	08447	10228	5	05647	09227			
292	5	08657	10227	5	05656	09226	5	05658	07128	5	05658	00028			
310	--	01645	16415	--	01645	12515	--			--	46109	08349			
614	5	05647	08227	53	05662	06124	--	46109	08149	5	08438	04148			
333				00	00790	16100	00	04590	14200	00	04790	00002			
334	--	03537	04128	--	05462	32204				--	04209	00028			
340	5	05648	12328				5	47345	12125	5	42438	12248			
136	5	05657	09327	5	05647	06327	5	08428	10328	5	43336	04156			
336	13	02763	12428	51	05552	12328				--	46309	16249			
350							--	48109	06249	--	57209	04249			
368				00	08490	06200				5	43218	02248			
379	50	01743	04328	03	05690	06303	--	48109	00049	--	46109	08349			
390	5	05555	08355	00	05590	08100	5	45128	08158	5	57118	02158			
382	10	05641	05211	53	05681	04302	--	48109	00049	--	44209	06149			
438	50	01653	02213							50	04623	02343			
430	40	05661	12301	00	05690	08100	00	45390	00040	50	05571	02241			
409	00	05690	12400	00	05690	13300	50	05641	10501	04	05690	11501			

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>1</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C, C<sub>1</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility. F = Force of wind—See page 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 September, 1941.
1 S.E. England	Light E. to S.E. wind; dull misty at first, bright periods this afternoon, local fog tomorrow morning; average temperature.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light or moderate S. to S.E. wind; fair or fine; average temperature.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Light or moderate S. wind; fair or fine; average temperature.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	Moderate S. wind; fair at first, cloud increasing, slight rain later; average temperature.
14 Mid Scotland	As 9-12.
15 N. E. Scotland	
16 Orkneys and Shetlands	Light or moderate S. wind; cloudy at first, bright intervals later; average temperature.
17 N. W. Ireland	As 13A - 13B.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	Moderate S. wind; fair but increasing cloud; average temperature.

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

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

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

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

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

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

**GENERAL INFERENCE.**

Pressure is high to the east and low to the west of the British Isles and a general fall of pressure is in progress. Weather will be dull and misty over a large part of England at first, but there will be considerable bright periods in all districts later. Some rain will spread from the Atlantic into western districts of Scotland and Ireland in the latter part of the period. Temperatures will be about normal.

**FURTHER OUTLOOK.**

Mainly fair but occasional rain in the Northwest.

Forecasts issued at 10.30h. G.M.T. N. K. JOHNSON, D.Sc., A.R.C.S. Director.  
 H.M.S.O. Press, Meteorological Office Dunstable. 9.289/4120. IV. 9/75. 0.6034. 6p. 548 8000 6/41



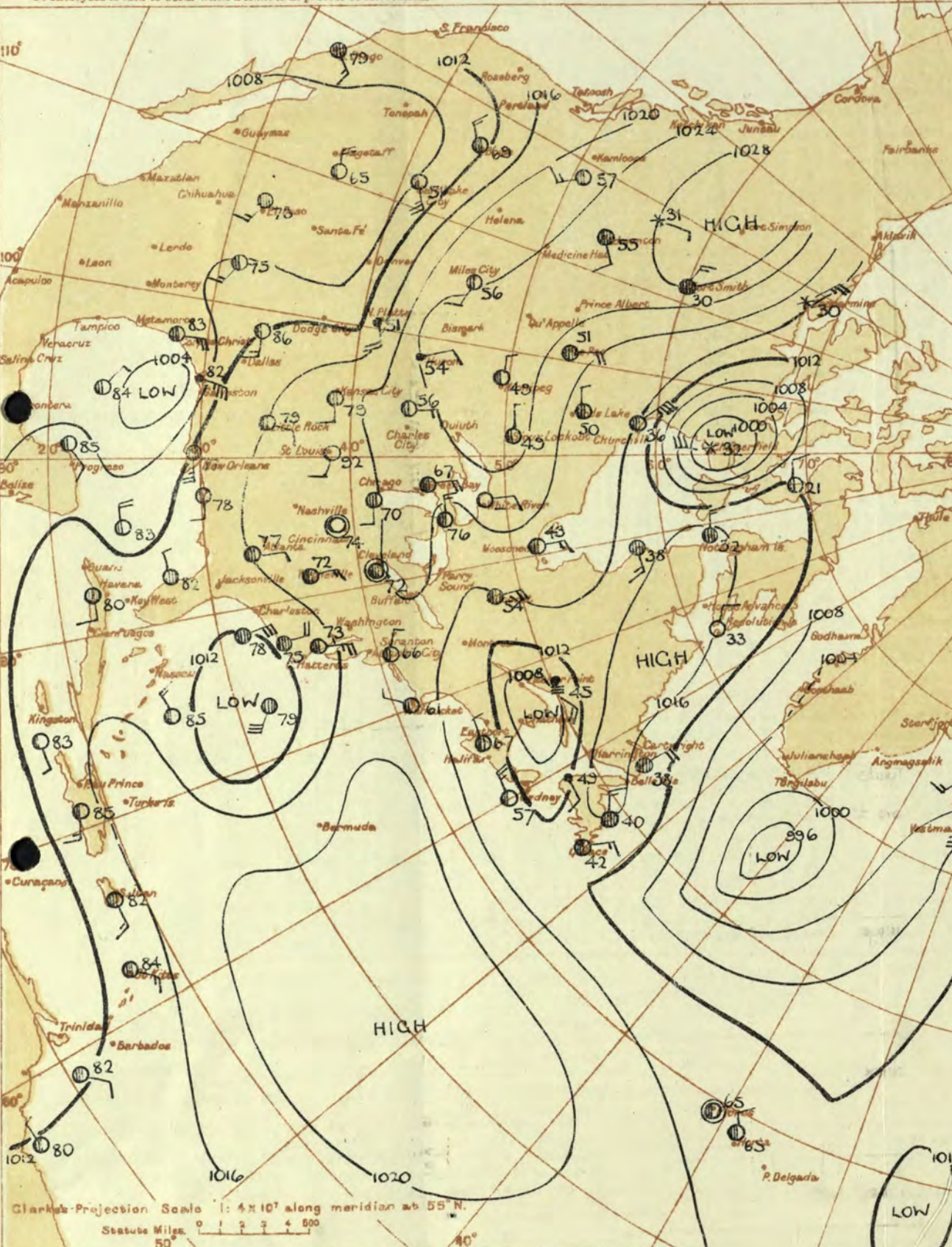
# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

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



Morning of  
 Tuesday 23rd September  
 1941.



Glark's Projection Scale 1:4 x 10<sup>7</sup> 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 2h, G.M.T.; U.S.S.R. (Europe and Asia), 2h, 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 23rd September 1941.

No. 29,160

OBSERVATIONS at 1 hr. G.M.T. 23rd September															OBSERVATIONS at 7 hr. G.M.T. 23rd September													PAST 24 HOURS.									
District.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. (6)	Humid. (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. (20)	Humid. (21)	Visibility. (22)	Cloud.					Sea. (30)	TEMPERATURE.					RAINFALL.		Sun- shine (36)		
					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.									
																													Low. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)	Low. (23)		Med. (24)	High (25)
1	London (Kew) ...	113	1023.6	-1	E	1	55	97	5	S	-	-	10	10	300	1023.6	+1	NE	2	53	92	4	S	-	-	10	10	1500	0	67	53	41	-	-	6.5		
	Croydon ...	217	1023.6	-1	E	1	55	97	5	S	-	-	10	10	300	1023.6	+2	NNE	2	53	97	3	S	-	-	10	10	100	0	67	53	45	-	-	8.5		
	S. Farnborough ...	226	1023.4	-2	E	1	55	97	2	S	-	-	10	10	300	1023.8	+8	NE/E	3	53	97	4	S	-	-	10	10	500	1	71	53	45	-	-	7.5		
	Boscombe Down ...	417	1023.3	+2	NE/E	2	53	97	4	-	-	-	0	0	-	1023.5	+4	ENE	4	52	97	1	-	-	-	10	10	4150	0	71	50	47	-	Tr	7.0		
	Thorney Island ...	10	1022.5	-4	NE	1	52	97	4	-	-	-	0	0	-	1022.2	+2	N	2	52	97	5	S	-	-	Tr	Tr	4000	0	71	49	44	-	Tr	*		
	Lympne ...	348	1023.5	-2	-	0	52	97	1	-	-	-	0	0	-	1023.5	+2	N	1	55	97	2	-	-	-	10	10	4150	0	69	50	46	-	-	10.3		
	Manston ...	154	1023.4	-6	-	0	57	97	4	S	-	-	10	10	400	1023.7	+8	N	1	57	97	5	S	-	-	10	10	500	0	62	56	54	-	-	4.4		
2	Shoeburyness ...	11	1023.6	-2	NE	1	57	97	4	S	-	-	10	10	200	1023.6	+6	NW	2	57	97	5	S	-	-	10	10	400	0	65	56	55	-	-	6.1		
	Felixstowe ...	15	1023.6	-2	NE	1	57	97	4	S	-	-	10	10	200	1023.6	+6	NW	2	57	97	5	S	-	-	10	10	400	0	65	56	55	-	-	6.1		
	Gorleston ...	5	1023.3	-1	NW	2	58	92	5	S	-	-	10	10	1500	1023.8	0	E	2	57	92	3	S	-	-	10	10	500	0	60	55	54	-	-	*		
	Mildenhall ...	19	1023.8	-1	SE	1	54	97	4	S	-	-	10	10	600	1024.2	+1	-	0	53	97	5	S	-	-	10	10	600	0	67	49	40	-	Tr	1.8		
	Cranwell ...	240	1024.5	-6	NE	1	49	97	2	S	-	-	10	10	200	1024.3	+2	-	0	53	97	5	S	-	-	10	10	1000	0	63	44	39	-	-	1.6		
3	Birmingham ...	535	1023.9	0	E	1	54	97	0	-	-	-	10	10	2150	1024.1	+6	ESE	2	53	97	2	S	-	-	10	10	250	1	60	51	44	-	0.2	0.0		
	Upper Heyford ...	408	1023.9	0	E	1	54	97	0	-	-	-	10	10	2150	1024.1	+6	ESE	2	53	97	2	S	-	-	10	10	200	1	64	61	46	-	Tr	*		
4	Ross-on-Wye ...	223	1023.9	0	E	1	54	97	0	-	-	-	10	10	2150	1024.1	+6	ESE	2	53	97	2	S	-	-	10	10	200	1	64	61	46	-	Tr	*		
																1023.4	+4	ESE	2	51	97	1	-	-	-	10	10	4150	0	63	47	43	-	0.1	3.4		
5	Hartland Point ...	299	1020.3	-4	SE	4	57	85	7	-	-	-	0	0	-	1019.3	0	SE	4	57	92	7	-	-	10	10	Tr	-	0	3	64	56	55	-	-	8.4	
	Bristol ...	209	1023.4	+2	-	0	50	97	1	-	-	-	0	0	-	1023.6	+6	ESE	1	52	97	2	-	-	-	10	10	2150	0	67	47	37	-	Tr	4.5		
	Portland Bill ...	32	1021.1	-4	E	3	58	92	7	A	-	-	2.3	2.3	4000	1021.4	+8	E	4	57	92	6	S	-	-	10	10	2500	0	61	54	52	-	-	7.6		
	Plymouth ...	82	1021.4	-2	E	3	59	85	6	-	-	-	0	0	-	1020.3	+4	ESE	4	59	97	5	S	-	-	4.6	4.6	400	0	66	58	52	-	-	4.9		
	The Lizard ...	240	1020.4	-2	ESE	4	58	97	5	B	-	-	4.6	4.6	2000	1019.6	+6	E	4	58	92	4	A	-	-	4.6	7.8	900	0	62	58	*	-	-	2.0		
	Scilly (St. Mary's) ...	163	1019.3	-6	EIS	4	58	97	6	-	-	-	0	0	-	1018.6	+2	ESE	4	57	97	5	S	A	2	2.3	4.6	800	0	65	57	*	-	-	0.1		
	Guernsey ...	175	1021.2	-2	ESE	4	59	97	5	-	-	-	0	0	-	1021.1	-2	ESE	4	58	97	6	-	A	2	0	1	-	0	3	60	51	*	-	-	3.3	
6	Pembroke ...	142	1021.8	-2	E	2	50	97	4	S	-	-	4.6	4.6	3000	1021.0	0	ESE	3	51	92	6	-	A	6	0	7.8	-	0	2	71	48	42	-	-	*	
7	Holyhead (Valley) ...	26	1023.4	-4	SSE	2	57	85	4	S	-	-	9	9	1800	1023.5	+2	SSE	3	53	92	4	S	-	-	10	10	200	0	64	53	49	-	-	1.8		
8	Chester (Sealand) ...	16	1023.4	-4	SSE	2	57	85	4	S	-	-	9	9	1800	1023.5	+2	SSE	3	53	92	4	S	-	-	10	10	200	0	64	53	49	-	-	1.8		
	Manchester ...	70	1024.2	0	EIS	2	55	92	5	S	-	-	10	10	200	1023.7	+2	SE/E	1	57	85	5	S	-	-	9	9	3500	0	67	47	39	-	-	4.8		
10	Spurn Head ...	29	1025.1	0	SE/E	3	57	92	5	S	-	-	10	10	2500	1024.3	0	E	3	57	92	5	A	7	-	4.6	9	2500	6	59	56	*	-	-	0.0		
	Catterick ...	175	1025.1	-2	-	0	50	92	4	S	-	-	10	10	1500	1025.0	+4	-	0	51	92	3	S	-	-	10	10	1500	0	60	49	40	-	Tr	0.1		
	Tynemouth ...	108	1025.3	0	SSW	3	50	85	5	S	-	-	4.6	4.6	2500	1025.1	0	S	2	53	85	3	B	-	-	9	9	2400	0	57	50	48	-	-	*		
11	St. Abbs Head ...	280	1024.0	0	S	3	50	92	7	S	A	-	4.6	4.6	1500	1023.7	+4	S	1	50	92	7	1	-	-	Tr	1	2500	0	56	47	*	-	-	*		
	Leuchars ...	36	1023.4	-6	-	0	53	92	5	S	-	-	9	9	3200	1023.8	+6	-	0	52	97	1	S	-	-	10	10	1200	0	56	44	38	-	-	0.0		
12	Bentley (Abbots) ...	19	1023.3	+2	-	0	54	97	4	-	-	-	0	0	-	1023.8	+6	-	0	52	97	2	-	-	9	9	7.8	-	0	50	39	34	-	-	0.0		
	Eekdalemuir ...	794	1023.3	+2	-	0	54	97	4	-	-	-	0	0	-	1024.3	+4	-	0	52	97	2	-	-	9	9	7.8	-	0	50	39	34	-	-	0.0		
	Point of Ayre ...	30	1022.3	-4	SSE	5	57	92	6	-	-	-	0	0	-	1022.4	+2	SSE	4	58	92	6	6	-	-	9	9	1500	0	64	55	*	-	-	4.8		
13A	Tiree ...	22	1021.3	-2	SSE	3	56	92	7	S	-	-	4.6	4.6	2300	1020.2	-2	SSE	4	56	92	7	S	-	-	7.8	7.8	2500	0	56	54	*	-	-	0.0		
13B	Stormoway ...	80	1021.1	-2	SE	4	55	85	7	B	-	-	2.3	4.6	2500	1020.4	-4	SE	3	55	85	6	S	-	-	9	9	3000	0	60	50	*	-	-	0.3		
15	Dalwhinnie ...	1176	1021.1	-2	SE	4	55	85	7	B	-	-	2.3	4.6	2500	1020.4	-4	SE	3	55	85	6	S	-	-	9	9	3000	0	60	50	*	-	-	0.3		
	Aberdeen ...	79	1021.1	-2	SE	4	55	85	7	B	-	-	2.3	4.6	2500	1020.4	-4	SE	3	55	85	6	S	-	-	9	9	3000	0	60	50	*	-	-	0.3		
	Wick ...	119	1022.4	-2	SSW	2	52	92	6	S	-	-	9	9	1600	1022.7	+6	SSW	1	50	97	5	S	-	-	9	9	5000	1	55	45	30	-	-	0.0		
16	Sumburgh ...	30	1023.8	-6	SE	2	51	92	6	S	-	-	10	10	1500	1022.9	+6	SE	2	53	92	6	S	-	-	4.6	9	1200	1	55	49	46	-	-	0.3		
17	Blackad Point ...	18	1017.2	-4	SE	3	53	92	7	S	-	-	7.8	7.8	2500	1015.1	-2	SE	4	53	85	7	-	S	-	0	7.8	-	0	4	62	55	*	Tr	-	*	
18	Mahri Head ...	84	1019.5	-2	SSE	3	58	75	6	S	-	-	4.4																								



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**

BRITISH SECTION  
Wednesday 24th September 1941.  
No. 29161

[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, fog over sea (coast station).  
fg, 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).  
k<sub>s</sub>/k, slight storm of drifting snow (generally high).  
S/k, heavy storm of drifting snow (generally high).  
KQ, line squall. l, lightning.  
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.  
rs, sleet. t, thunder.  
u, ugly, threatening sky.  
v, unusual visibility. w, dew.  
x, hoar frost. y, dry air.  
z, dust haze: the turbid atmosphere  
of dry weather.  
h(r), "hail" or "rain and hail."  
Capital letters indicate intense;  
suffix o indicates slight; repetition  
of letters indicates continuity: thus  
R, heavy rain. r<sub>o</sub>, slight rain.  
rr, continuous rain.  
<, less than (for cloud height). ↗gale.  
⊕ Solar halo. ⊙ Lunar halo. ↗Aurora.  
With present weather is combined,  
whenever possible, the general  
character of the weather.  
A "solidus" divides actual exist-  
ing weather from preceding con-  
ditions thus: —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.

CLOUD.

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

COLUMN 29 —STATE OF GROUND.

0 ..	Ground dry.	7 ..	Ground covered with snow, less than 6 ins., deep but
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.

**CLOUD.**

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

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

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

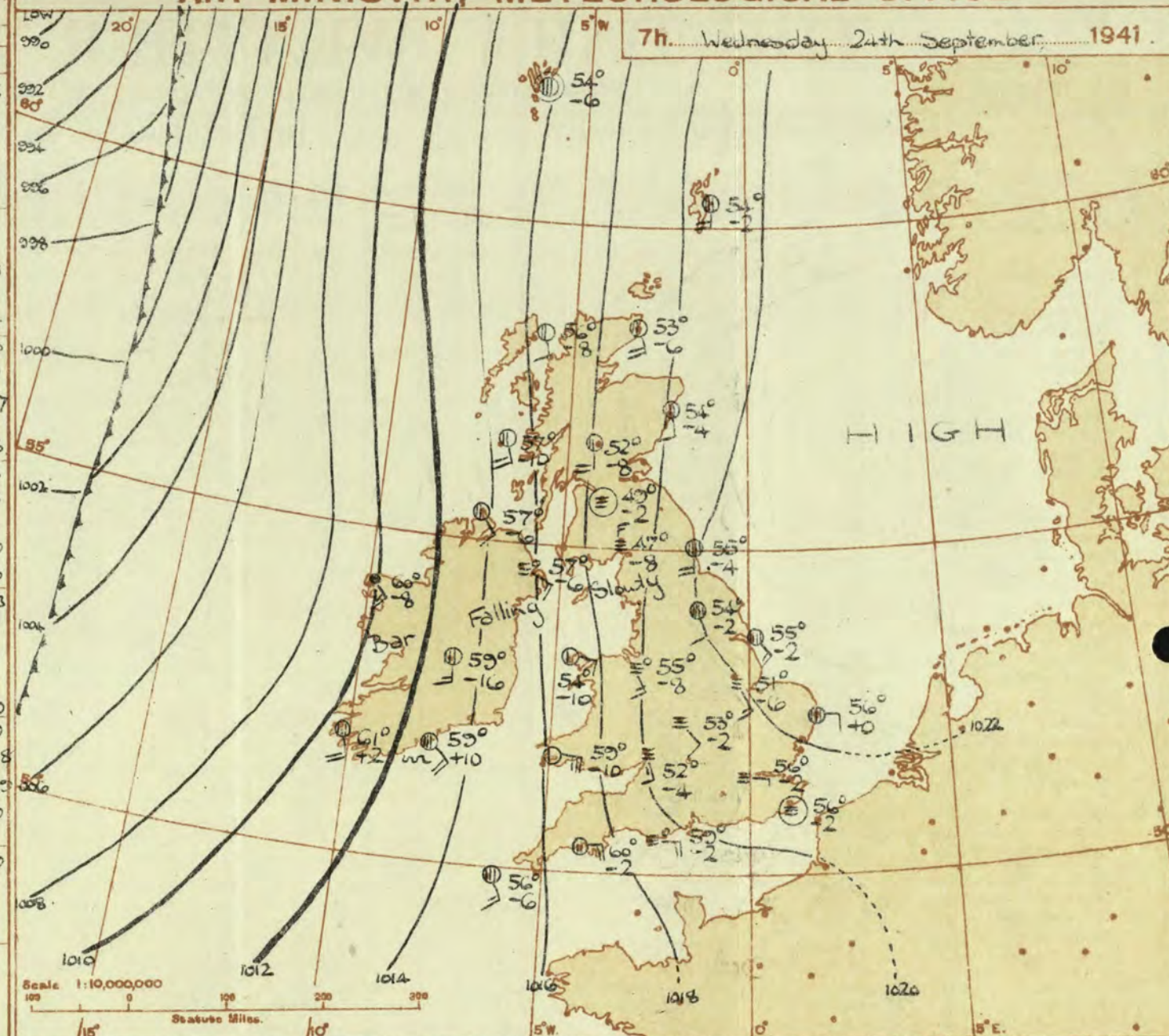


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 23rd September 1941				15h. G.M.T. 25th September 1941				01h. G.M.T. 26th September 1941				07h. G.M.T. 26th September 1941			
III	C <sub>1</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>1</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>1</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>1</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>1</sub>	wwVhN <sub>h</sub>	DDFWN
109	5	05607	15227	00	05590	16301	00	05690	15400	5	05646	13526			
115	54	02844	12225	54	02844	16226	54	01844	20125	54	01844	20115			
203	51	05844	00015	54	05843	16114	50	05843	12113						
206	50	01663	08213	00	05690	08115	00	08490	00000	03	43490	00014			
210	03	05690	06324	50	05661	12314	00	05690	16200	00	05690	11214			
220	50	08452	14503	50	08453	15104									
230	03	05690	00014	07	05690	00013	50	05641	10211						
245	00	05690	12224	5	05527	14427	5	08408	15458	5	05638	15328			
260	00	05690	04124	00	05590	04314	--	41105	00049	--	46109	12149			
275	5	05535	12425	00	05590	12310	5	05647	12317	5	08428	10428			
279	00	05690	022--	00	05690	02202	00	05590	04300	00	08490	06300			
285	23	01744	10414	13	05643	12414				--	48205	10449			
288	54	02757	14227	53	05654	12214	5	05665	16115	5	05637	14227			
375	17	05641	12324	07	05690	12227	00	05690	12310	5	05548	13428			
301	00	05590	13320	00	08490	12200	5	08446	10246	5	41463	10243			
321	5	05690	10226	50	05652	09202	5	41448	11148	5	05528	13348			
290	5	05648	08228	5	05548	09328	--	05547	09227	5	05648	10228			
292	5	05658	14228	5	05557	10317	5	08448	11228	5	05548	12228			
310	--	46209	08249	--	05544	08214				--	46109	08349			
3145	05647	10227	10	05673	06103	5	08438	22454	--	57109	08259				
333	00	00700	08200	00	00700	00001	00	05590	00000	5	05663	00013			
334	--	05553	16214	--	05562	00003				--	02455	04217			
340	5	08428	11328	50	05542	12102	5	43328	12348	5	08428	11448			
136	5	05648	08348	5	05646	10227	--	48109	08349	--	44209	10349			
336	13	02763	16425	54	01751	04313				5	46309	04249			
350	5	05528	06249	00	05590	06210	--	46109	08249	--	46209	08249			
368	00	05690	04440	00	08490	06300	00	47990	04240	5	46208	02248			
379	50	05662	06342	00	05590	06300	--	46009	04349	--	46109	06349			
390	5	41428	06158	00	08490	10100	--	46109	02349	--	46109	08349			
382	50	05653	06213	00	05590	04100	00	47309	05100						
435	00	00490	02342							--	46009	04349			
430	00	05690	06300	00	05690	00000	00	05690	05200						
409	00	05690	13500	00	05690	12300	04	08490	10400	57	05651	11416			

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

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

1 S.E. England	
2 E. England ...	Light east to southeast breeze. Mainly fine this afternoon; probably further fog or low cloud tonight and to-morrow morning. Average temperature.
3 E. Midlands ...	
4 W. Midlands ...	Light to moderate southeast wind; fine to fair; rather warm.
5 S.W. England	
6 South Wales ...	Moderate southeast winds, veering south. Fair at first; cloudy with occasional rain spreading from the southwest. Some coast fog; rather warm and close.
7 North Wales ...	
8 N.W. England	As 4
9 N. Midlands ...	
10 N.E. England	As 1-3
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Moderate southerly winds; fair; rather warm.
13A. W. Scotland	
13B. N.W. Scotland	Moderate to fresh southerly winds. Fair today; probably some occasional rain to-morrow; rather warm.
14 Mid Scotland	
15 N. E. Scotland	As 11-12
16 Orkneys and Shetlands	
17 N. W. Ireland	Wind south, moderate, veering slightly, later. Mainly cloudy with some occasional rain. Local coast fog; rather close.
18 N. E. Ireland	
19 S. E. Ireland	Moderate to fresh southeast wind, veering south; fine to fair at first; some occasional rain later; rather warm.
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  
 = Occluded Front (or Occlusion)  
 = Warm Occlusion  
 = Cold Occlusion  
 = Lines of Frontogenesis  
 Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)  
 NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

GENERAL INFERENCE.

Pressure is high to the east and low to the west of the British Isles. A depression suspected to be located southwest of Iceland will move northeast and an associated trough is expected to cause rain in Western districts before the end of the period. Over most of England and Scotland weather will be fair or fine.

FURTHER OUTLOOK.

Less settled conditions spreading from the West and Southwest.

Forecasts issued at 1030G.M.T.

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

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

9-209/4120. No. 5170. O. 6034. Sp. 548. 3300. 5/41



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

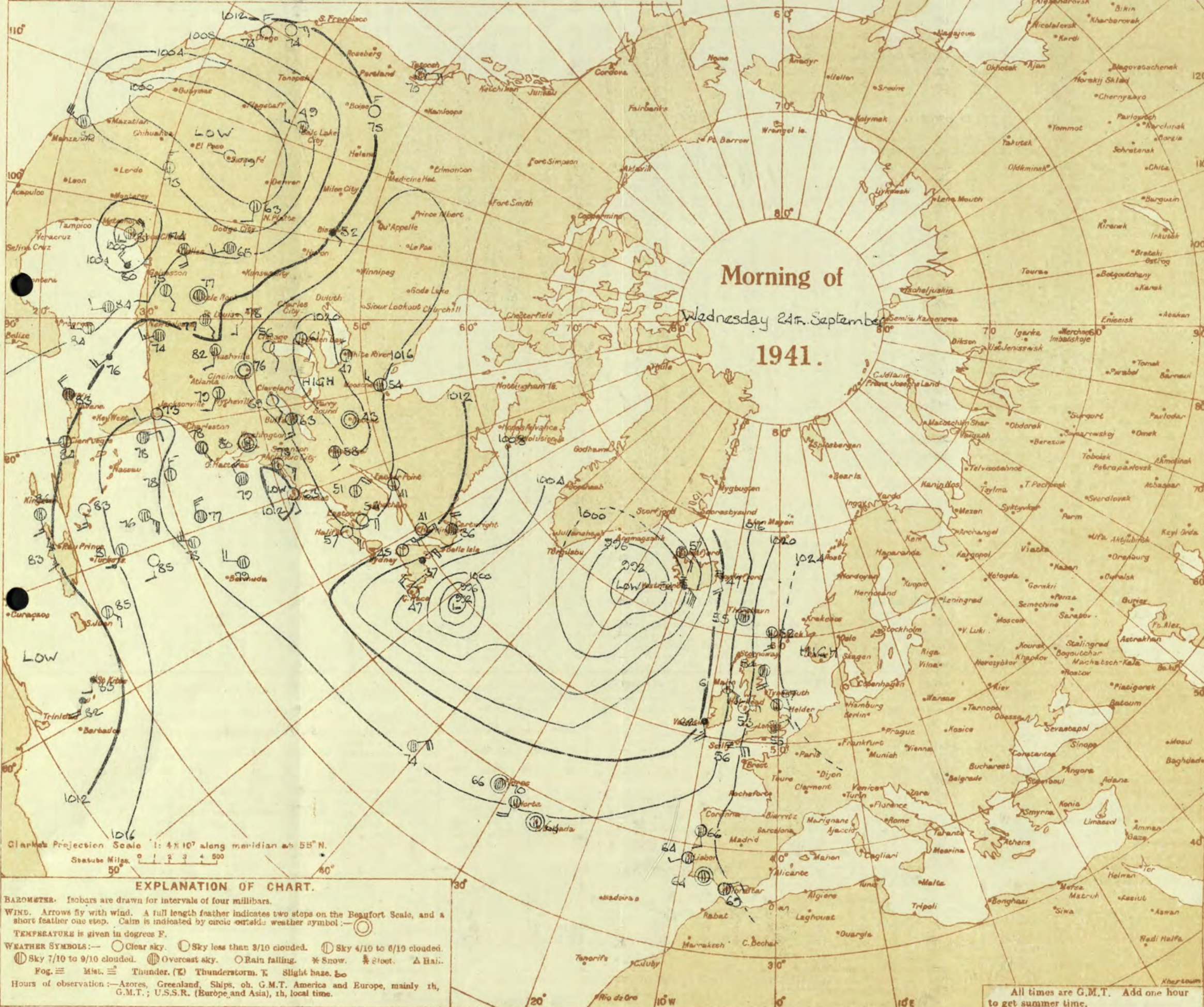
## Explanation of Frontal Lines shown on Charts

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

Morning of

Wednesday 24th September

1941.



## EXPLANATION OF CHART.

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

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



# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 24th September															OBSERVATIONS at 7 hr. G.M.T. 24th September													PAST 24 HOURS.										
District.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					State of Ground.	Sea. 0-9	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs.		
					Dir.	Force.					Low.	Med.	High.	Form.	Amount.			Height of Base (feet).	Dir.					Force.	Low.	Med.	High.	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.
1	London (Kew)	18	1021.3	-6	NE	2	3	58	97	4	Sc	10	10	2500	1020.3	-4	E	3	58	92	4	Sc	10	10	2500	1020.3	-4	E	3	63	56	54	-	-	4.1			
	Croydon	217	1021.3	-6	NE	2	3	58	97	4	Sc	10	10	2500	1020.7	-2	E	1	58	97	3	Sc	10	10	2500	1020.7	-2	E	1	64	55	54	-	-	4.7			
	S. Farnborough	226	1021.4	-6	NE	2	3	58	97	4	Sc	10	10	2500	1020.4	-2	ESE	2	58	97	3	Sc	10	10	2500	1020.4	-2	ESE	2	68	54	52	-	-	5.1			
	Boscombe Down	417	1020.7	-10	E	4	3	53	97	4	Sc	10	10	2500	1019.8	-2	ESE	3	54	97	1	Sc	10	10	2500	1019.8	-2	ESE	3	69	51	48	-	-	5.6			
	Thorney Island	10	1020.3	-6	NE	2	3	58	92	6	Sc	10	10	2500	1019.7	-2	ESE	1	58	97	4	Sc	10	10	2500	1019.7	-2	ESE	1	73	53	43	-	-	8.3			
	Lymington	346	1022.1	-6	NE	1	3	58	97	4	Sc	10	10	2500	1021.1	-2	E	0	56	97	2	Sc	10	10	2500	1021.1	-2	E	0	73	53	46	-	-	8.3			
	Manston	154	1022.4	-10	ENE	1	3	56	97	1	Sc	10	10	2500	1021.3	0	E	1	57	97	1	Sc	10	10	2500	1021.3	0	E	1	63	55	55	-	-	5.4			
2	Shoeburyness	11	1021.2	-4	NE	3	3	56	97	2	Sc	10	10	2500	1021.2	0	EN	3	58	97	4	Sc	10	10	2500	1021.2	0	EN	3	63	56	56	-	-	0.5			
	Felixstowe	15	1022.8	-4	NE	3	3	56	97	2	Sc	10	10	2500	1021.6	-2	ENE	3	57	97	3	Sc	10	10	2500	1021.6	-2	ENE	3	62	56	55	-	-	0.0			
	Gorleston	5	1023.7	-6	E	2	3	56	92	6	Sc	10	10	2500	1021.8	0	E	2	56	92	5	Sc	10	10	2500	1021.8	0	E	2	53	55	52	-	-	0.0			
	Mildenhall	19	1022.6	-6	ESE	2	3	54	97	1	Sc	10	10	2500	1021.7	0	ESE	2	54	97	4	Sc	10	10	2500	1021.7	0	ESE	2	57	53	45	-	-	0.6			
	Cranwell	240	1022.9	-6	ESE	3	3	54	97	4	Sc	10	10	2500	1021.7	-6	SSE	3	51	97	3	Sc	10	10	2500	1021.7	-6	SSE	3	62	51	47	-	-	2.2			
3	Birmingham	535	1021.0	-2	E	3	3	53	97	1	Sc	10	10	2500	1020.3	-2	SE	2	53	97	1	Sc	10	10	2500	1020.3	-2	SE	2	60	52	43	-	-	0.8			
	Upper Heyford	408	1022.0	-2	E	3	3	53	97	1	Sc	10	10	2500	1020.6	-2	E	3	54	97	2	Sc	10	10	2500	1020.6	-2	E	3	62	52	51	-	-	0.0			
4	Ross-on-Wye	223	1021.0	-2	E	3	3	53	97	1	Sc	10	10	2500	1019.5	-4	SSE	1	52	97	2	Sc	10	10	2500	1019.5	-4	SSE	1	62	48	42	-	-	3.6			
5	Hartland Point	299	1017.3	0	SE	4	3	58	92	7	Sc	10	10	2500	1015.4	-4	E	3	58	97	7	Sc	10	10	2500	1015.4	-4	E	3	70	57	55	-	-	10.2			
	Bristol	209	1020.7	-10	-	0	3	50	97	0	Sc	10	10	2500	1020.0	0	ESE	2	53	97	3	Sc	10	10	2500	1020.0	0	ESE	2	67	49	39	-	-	5.3			
	Portland Bill	32	1019.2	-8	E	4	3	58	92	7	Sc	10	10	2500	1018.0	-2	E	4	59	92	4	Sc	10	10	2500	1018.0	-2	E	4	60	55	54	-	-	0.0			
	Plymouth	82	1018.6	-10	E	4	3	60	92	4	Sc	10	10	2500	1017.0	-2	E	4	60	92	6	Sc	10	10	2500	1017.0	-2	E	4	64	58	54	-	-	9.0			
	The Lizard	240	1017.3	-12	NE	4	3	58	97	4	Sc	10	10	2500	1016.0	-2	E	3	57	97	7	Sc	10	10	2500	1016.0	-2	E	3	60	56	56	-	-	0.0			
	Scilly (St. Mary's)	163	1016.2	-18	ESE	4	3	56	97	1	Sc	10	10	2500	1014.7	-6	SSE	3	56	97	6	Sc	10	10	2500	1014.7	-6	SSE	3	64	56	56	-	-	4.0			
	Guernsey	175	1016.2	-18	ESE	4	3	56	97	1	Sc	10	10	2500	1014.7	-6	SSE	3	56	97	6	Sc	10	10	2500	1014.7	-6	SSE	3	64	56	56	-	-	4.0			
6	Pembroke	142	1018.0	-14	ESE	4	3	59	97	6	Sc	10	10	2500	1016.9	-10	ESE	6	59	97	6	Sc	10	10	2500	1016.9	-10	ESE	6	64	58	58	-	-	9.5			
7	Holyhead (Valley)	26	1018.8	-2	E	1	3	53	92	6	Sc	10	10	2500	1016.1	-10	ESE	2	54	92	6	Sc	10	10	2500	1016.1	-10	ESE	2	73	51	44	-	-	0.0			
	Chester (Sealand)	16	1021.4	-6	SSE	3	3	53	97	2	Sc	10	10	2500	1019.4	-8	SSE	3	55	92	4	Sc	10	10	2500	1019.4	-8	SSE	3	61	53	44	-	-	1.1			
8	Manchester	70	1021.7	-6	E	1	3	54	97	4	Sc	10	10	2500	1020.4	-2	E	2	54	92	5	Sc	10	10	2500	1020.4	-2	E	2	63	50	43	-	-	5.8			
10	Spurn Head	29	1023.4	-10	SE	2	3	57	97	6	Sc	10	10	2500	1021.3	-2	SE	3	55	92	6	Sc	10	10	2500	1021.3	-2	SE	3	58	55	52	-	-	0.0			
	Catterick	175	1023.3	-2	SE	2	3	55	92	5	Sc	10	10	2500	1021.9	-6	SSE	2	54	92	5	Sc	10	10	2500	1021.9	-6	SSE	2	64	54	52	-	-	1.7			
	Tynemouth	108	1023.5	-6	SE	4	3	55	92	6	Sc	10	10	2500	1022.2	-4	S	4	55	85	6	Sc	10	10	2500	1022.2	-4	S	4	57	54	51	-	-	0.0			
11	St. Abbs Head	280	1022.0	-8	SSE	3	3	54	92	5	Sc	10	10	2500	1020.3	-6	S	3	51	97	5	Sc	10	10	2500	1020.3	-6	S	3	61	50	50	-	-	0.0			
	Leuchars	36	1021.7	-8	-	0	3	53	97	3	Sc	10	10	2500	1020.1	-6	-	0	53	92	5	Sc	10	10	2500	1020.1	-6	-	0	61	52	48	-	-	4.6			
12	Renfrew (Abbots I.)	19	1020.8	-6	E	2	3	50	97	2	Sc	10	10	2500	1019.6	-2	E	2	49	97	2	Sc	10	10	2500	1019.6	-2	E	2	66	43	37	-	-	4.3			
	Edkdalemuir	794	1020.8	-6	E	2	3	50	97	2	Sc	10	10	2500	1019.6	-2	E	2	49	97	2	Sc	10	10	2500	1019.6	-2	E	2	66	43	37	-	-	4.3			
	Point of Ayre	30	1019.7	-8	SE	5	3	58	97	4	Sc	10	10	2500	1017.8	-6	SE	4	57	97	3	Sc	10	10	2500	1017.8	-6	SE	4	64	55	55	-	-	8.3			
13A	Tiree	22	1017.8	-6	SSE	5	3	59	85	7	Sc	10	10	2500	1015.1	-10	SSE	4	57	85	7	Sc	10	10	2500	1015.1	-10	SSE	4	62	56	56	-	-	5.9			
13B	Stornoway	80	1018.3	-8	SSE	3	3	58	85	7	Sc	10	10	2500	1016.5	-8	SSE	2	56	85	7	Sc	10	10	2500	1016.5	-8	SSE	2	63	53	53	-	-	6.8			
15	Dalwhinnie	1176	1018.3	-8	SSE	3	3	58	85	7	Sc	10	10	2500	1016.5	-8	SSE	2	56	85	7	Sc	10	10	2500	1016.5	-8	SSE	2	64	49	49	-	-	8.1			
	Aberdeen	79	1020.8	-10	SE	4	3	53	92	5	Sc	10	10	2500	1020.9	-4	SE	2	54	85	6	Sc	10	10	2500	1020.9	-4	SE	2	60	54	52	-	-	4.2			
	Wick	119	1020.8	-10	SE	4	3	53	92	5	Sc	10	10	2500	1018.7	-6	SSE	4	53	92	6	Sc	10	10	2500	1018.7	-6	SSE	4	58	53	50	-	-	0.0			
16	Sumburgh	30	1023.1	-2	S	3	3	53	92	4	Sc	10	10	2500	1022.2	-2	S	4	54	85	6	Sc	10															



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTIONThursday, 25th September 1941.  
No. 23, 162

OBSERVATIONS at 13h. G.M.T. 24th September														OBSERVATIONS at 18h. G.M.T. 24th September														PAST 24 HOURS.							
DISC.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.					Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.					State of Ground.	Sea.	WEATHER.					
				Dir.	Force.					Low.	Med.	High.	Low 0-10	Total 0-10			Height Base. (feet).	Form.					Amount.	Low 0-10	Total 0-10	Height Base. (feet).	Form.			Amount.	7h.—18h. 24h.	18h.—18h. 24h.	18h.—24h. 25h.	1h.—7h. 25h.	
1	London (Kew) ...	1013.5	-1.0	12	3	N	67	75	5	-	-	4	0	4.0	1013.3	+4	SE	2	N	64	85	4	5	3	1	4-6	7.8	2500	0	•	cmbe	be	cm	bmwbc	cfw
	Croydon ...	1013.5	-1.0	3	3	N	75	65	6	-	3	4	0	4.6	1013.5	+2	SE	2	N	66	85	5	4	3	1	3	7.8	2500	0	•	of be	be	cm	ofbmwbc	cmwof
	S. Farnborough ...	1013.1	-1.0	SE	2	N	70	75	6	-	5	2	0	7.8	1019.1	+8	SE	2	N	67	75	2	4	3	8	4-6	7.8	3000	0	•	cmw	be	cm	cm	cm
	Boscombe Down ...	1013.1	-1.0	SE	2	N	67	75	6	-	5	2	0	7.8	1018.8	+2	SE	3	N	61	85	6	-	7	-	0	7.8	-	0	•	FF	cmbe	be	cm	cm
	Thorpey Island ...	1013.4	-1.0	SE	2	N	68	75	6	-	5	2	0	7.3	1018.0	0	SE	3	N	63	85	6	5	3	3	4-6	7.8	2500	0	•	ofbm	be	cm	cm	cm
	Lymington ...	1020.5	-2	SE	2	N	67	75	6	-	5	2	0	7.8	1020.5	0	SE	3	N	61	85	6	5	3	3	4-6	7.8	2500	0	•	ofbm	be	cm	cm	cm
	Manston ...	1020.7	-1	SE	2	N	66	85	5	-	-	2	0	7.8	1020.0	+6	SE	2	N	60	85	6	-	7	6	0	3	-	0	•	FF	cmbe	be	cm	cm
2	Shoeburyness ...	1020.8	-1.0	SE	2	N	60	82	4	5	-	-	10	10	1020.4	0	SE	2	N	58	87	1	-	-	-	10	10	1500	0	•	cm	be	cm	cm	
	Felixstowe ...	1020.3	-1.0	SE	2	N	60	82	4	5	-	-	10	10	1020.6	0	SE	2	N	58	87	3	5	-	-	10	10	1500	0	•	cm	be	cm	cm	
	Gorleston ...	1021.1	-1.0	SE	2	N	68	85	4	5	-	-	10	10	1021.2	-4	SE	2	N	58	87	4	5	-	-	10	10	1500	0	•	cm	be	cm	cm	
	Mildenhall ...	1020.3	-1.0	SE	2	N	67	85	6	5	-	-	10	10	1019.6	-2	SE	2	N	61	87	5	5	7	2	2-3	7.8	2500	0	•	cm	be	cm	cm	
	Cranwell ...	1020.6	-1.0	SE	2	N	60	85	5	5	-	-	0	0	1019.4	-2	SE	2	N	61	87	5	-	3	6	0	7.8	-	0	•	cm	be	cm	cm	
3	Birmingham ...	1020.0	-1.4	SE	2	N	57	82	5	5	-	-	10	10	1018.0	-4	SE	2	N	63	85	4	5	3	1	4-6	7.8	2500	0	•	cm	be	cm	cm	
	Upper Heyford ...	1019.4	-1.0	SE	2	N	60	85	4	5	-	-	10	10	1018.0	-2	SE	2	N	67	75	5	5	3	1	2-3	7.8	2000	1	•	cm	be	cm	cm	
	Ross-on-Wye ...	1018.8	-0.8	SE	2	N	62	85	4	5	-	-	10	10	1018.0	-6	SE	2	N	64	85	5	5	3	1	2-3	7.8	2500	0	•	cm	be	cm	cm	
5	Hartland Point ...	1016.2	+2	SE	2	N	70	65	7	5	7	-	4	6	1017.3	+6	SE	2	N	63	82	7	5	4	6	4	6	7.8	2500	0	•	cm	be	cm	cm
	Bristol ...	1015.0	-1.0	SE	2	N	65	75	6	5	3	-	2	3	1018.6	+3	SE	2	N	66	75	7	5	4	6	4	6	7.8	2500	0	•	cm	be	cm	cm
	Portland Bill ...	1015.5	+0	SE	2	N	62	72	5	5	3	-	2	3	1018.6	+3	SE	2	N	61	75	7	5	4	6	4	6	7.8	2500	0	•	cm	be	cm	cm
	Plymouth ...	1017.6	+4	SE	2	N	67	75	7	5	6	-	0	9	1018.9	+10	SE	2	N	59	87	3	-	-	-	10	10	1500	0	•	cm	be	cm	cm	
	The Lizard ...	1017.2	+4	SE	2	N	68	77	4	5	-	-	10	10	1018.3	+8	SE	2	N	60	87	1	5	-	-	10	10	200	1	•	cm	be	cm	cm	
	Scilly (St. Mary's) ...	1016.3	+6	SE	2	N	66	85	6	5	7	3	4	6	1017.2	+6	SE	2	N	61	87	2	-	-	-	10	10	1500	0	•	cm	be	cm	cm	
6	Pembroke ...	1016.7	-0	SE	2	N	62	82	5	-	3	-	0	7.8	1017.4	+6	SE	2	N	60	87	5	8	-	-	9	9	2000	0	•	cm	be	cm	cm	
	Holyhead (Valley) ...	1015.7	-0.8	SE	2	N	70	65	6	5	3	-	1	3	1015.6	-2	SE	2	N	63	85	6	-	-	-	9	9	2000	0	•	cm	be	cm	cm	
	Chester (Sealand) ...	1018.4	-0.8	SE	2	N	60	85	4	5	-	-	10	10	1017.6	-2	SE	2	N	60	85	4	5	7	-	2-3	7.8	1500	0	•	cm	be	cm	cm	
	Manchester ...	1015.3	-0	SE	2	N	66	85	6	-	2	0	7.8	1018.4	0	SE	2	N	62	85	5	5	3	1	2-3	7.8	4000	0	•	cm	be	cm	cm		
10	Spurn Head ...	1021.4	-0.8	SE	2	N	58	82	6	-	2	-	10	10	1020.3	0	SE	2	N	58	87	5	5	7	-	7-8	8	1500	0	•	cm	be	cm	cm	
	Catterick ...	1020.7	-1.0	SE	2	N	57	85	5	5	-	-	10	10	1019.3	-4	SE	2	N	58	85	4	-	7	5	0	7.8	-	0	•	cm	be	cm	cm	
	Tynemouth ...	1021.0	-1.0	SE	2	N	57	85	6	5	-	-	4-6	4-6	2000	0	SE	2	N	55	87	6	5	3	2	4-6	7.8	2000	0	•	cm	be	cm	cm	
11	St. Abba Head ...	1017.3	-1.0	SE	2	N	56	85	5	5	-	-	2-3	2-3	1000	0	SE	2	N	57	85	5	5	4	-	4-6	7.8	1500	0	•	cm	be	cm	cm	
	Leuchars ...	1018.5	-1.0	SE	2	N	60	75	5	5	-	-	3	3	1800	1016.5	-6	SE	2	N	56	82	5	5	3	-	2-3	4	2500	0	•	cm	be	cm	cm
	Raith (Abbots L.) ...	1017.5	-1.4	SE	2	N	60	75	4	5	-	-	4-6	4-6	4000	1015.7	-1.0	SE	2	N	61	85	4	5	3	-	4-6	7.8	4000	0	•	cm	be	cm	cm
	Eskdalemuir ...	1017.2	-1.0	SE	2	N	65	65	6	-	-	-	2-3	2-3	4000	1017.0	-2	SE	2	N	61	85	5	7	2	-	1	7.8	2500	0	•	cm	be	cm	cm
	Point of Ayre ...	1016.5	-0.8	SE	2	N	61	85	5	5	3	-	7-8	3	800	1015.8	-2	SE	2	N	60	87	5	5	-	3	3	2000	0	•	cm	be	cm	cm	
13A	Tiree ...	1014.0	-1.4	SE	2	N	60	85	6	5	-	-	8	3	2500	1012.5	-6	SE	2	N	58	85	6	5	3	-	2-3	4	3500	0	•	cm	be	cm	cm
13B	Stornoway ...	1014.0	-1.0	SE	2	N	62	75	7	1	-	-	8	3	8500	1012.3	-4	SE	2	N	60	85	7	5	7	2	7-8	3	2500	0	•	cm	be	cm	cm
15	Dalwhinnie ...	1017.6	-0.6	SE	2	N	58	85	5	5	-	-	7-8	7.8	1500	1014.3	-4	SE	2	N	55	85	5	5	3	-	7-8	3	1500	0	•	cm	be	cm	cm
	Aberdeen ...	1018.6	-1.4	SE	2	N	55	85	6	5	-	-	10	10	1100	1018.4	-8	SE	2	N	54	82	5	5	-	-	10	10	700	0	•	cm	be	cm	cm
	Wick ...	1017.1	-0.8	SE	2	N	58	85	6	5	-	-	10	10	1100	1016.1	-2	SE	2	N	55	82	5	5	-	-	10	10	300	0	•	cm	be	cm	cm
	Sumburgh ...	1020.3	-0.8	SE	2	N	54	82	6	5	-	-	10	10	2000	1018.4	-12	SE	2	N	55	85	7	5	-	-	3	3	2500	1	•	cm	be	cm	cm
17	Blackhead Point ...	1003.4	-2	SE	2	N	63	85	7	6	-	-	10	10	1500	1003.5	+4	SE	2	N	59	87	7	5	-	-	10	10	1500	2	•	cm	be	cm	cm
18	Main Head ...	1012.2	-2	SE	2	N	63	82	5	-	2	-	0	7.8	-	1011.0	-4	SE	2	N	63	85	8	-	3	8	0	7.8	-	0	•	cm	be	cm	cm
	Aldergrove ...	1014.4	-1.0	SE	2	N	64	85	6	5	3	2	7	7.8	600	1013.5	-2	SE	2	N	59	82	5	-	3	6	0	4-6	-	0	•	cm	be	cm	cm
19	Birr Castle ...	1011.0	-1.2	SE	2	N	68	65	8	-	3	8	10	4-6	-	1012.4	0	SE	2	N	59	82	8												



Abridged observations of additional stations in the AVIATION WEATHER CODE												
13h. G.M.T. 24th September				01h. G.M.T.				07h. G.M.T. 25th September				
IIIC	C <sub>1</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>1</sub>	C <sub>2</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>1</sub>	C <sub>2</sub>	wwVhN <sub>h</sub>	DDFWN	
109	50	05531	46601	5-	05528	28518	5-	05537	46427	57	08427	16427
115	5	01853	12114	54	01853	12114	52	01854	16226	57	01844	16287
203							5-	05845	12305			
206	00	00700	08100	53	01704	08114	5-	08562	00012	53	21645	00067
210	00	05630	12300	04	05630	08203	50	05563	12213	57	02764	14315
220				50	05574	14517				50	01844	12114
230	04	05630	12212	09	05630	12114	53	05665	16217	5-	52638	14268
245	5-	05548	12328	5-	05528	08228	5-	47328	00048	--	44309	07148
260	00	05630	04100	84	05664	00014	5-	08455	00005	5-	05637	16227
275	5-	05528	12428	07	05530	13414	5-	05518	13328	5-	52508	18258
279	53	05664	26215	04	08450	24224	5-	45348	00048	67	05535	18327
285	5-	05538	12428	5-	08438	12428				5-	05537	10327
288	7-	05635	16225	07	05530	20215	01	05570	00015	03	43320	00043
57557	05645	14328		57	02754	10327	57	05645	08328	57	02824	14115
301	00	05530	48014				5-	08443	14213	57	08463	13317
321	50	05634	12224	03	05530	18224	--	48009	00049	--	44109	15149
299	5-	05548	14328	5-	08448	14328	--	46009	18349	--	46009	20349
292	5-	05546	14328	5-	08465	00028	--	46209	00069	--	44109	00049
310	--	44209	08349	--	48109	08349				--	01644	24314
334	5-	05630	20248	57	08454	00026	07	47220	00067	--	47009	22149
333	08	03700	16365	09	02690	20316	52	51655	17328	57	61625	16458
334	--	05565	06216	--	05565	16216				--	02645	20216
340	5-	08438	11428				00	45220	06160	5-	47248	00048
136	5-	05630	12340	03	08430	12315	01	43120	12268	53	08472	14166
336	13	02763	08425	51	05542	12328				51	02752	16327
350	50	05644	10345	03	05530	10225	50	08464	12214	--	48109	20249
368	73	05575	07425	09	22530	09266	5-	05578	00068	53	05663	14127
379	50	05522	12346	53	05663	14225	03	08430	14314	--	46109	18349
390	5-	08427	10357	--	48209	08149	--	48109	12149	--	46009	20149
382	03	05630	10213	53	05664	11225	5-	05570	00026	03	45130	00041
438	51	01563	02244							5-	46009	22249
430				09	05630	12227	5-	08438	00018			
400	57	05664	15367	57	05636	16228	5-	51408	14328	57	02607	17428

III

= Index Number of Station—See M.O. 252 or list issued on 1st of each month.

ww, W

= Present and past weather—See M.O. 252.

h, N<sub>h</sub>

= Height and amount of low cloud—See M.O. 252.

N<sub>T</sub>

= Total amount of cloud—See M.O. 252.

C<sub>1</sub>, C<sub>2</sub>, M

= Form of low and medium cloud—See page 1.

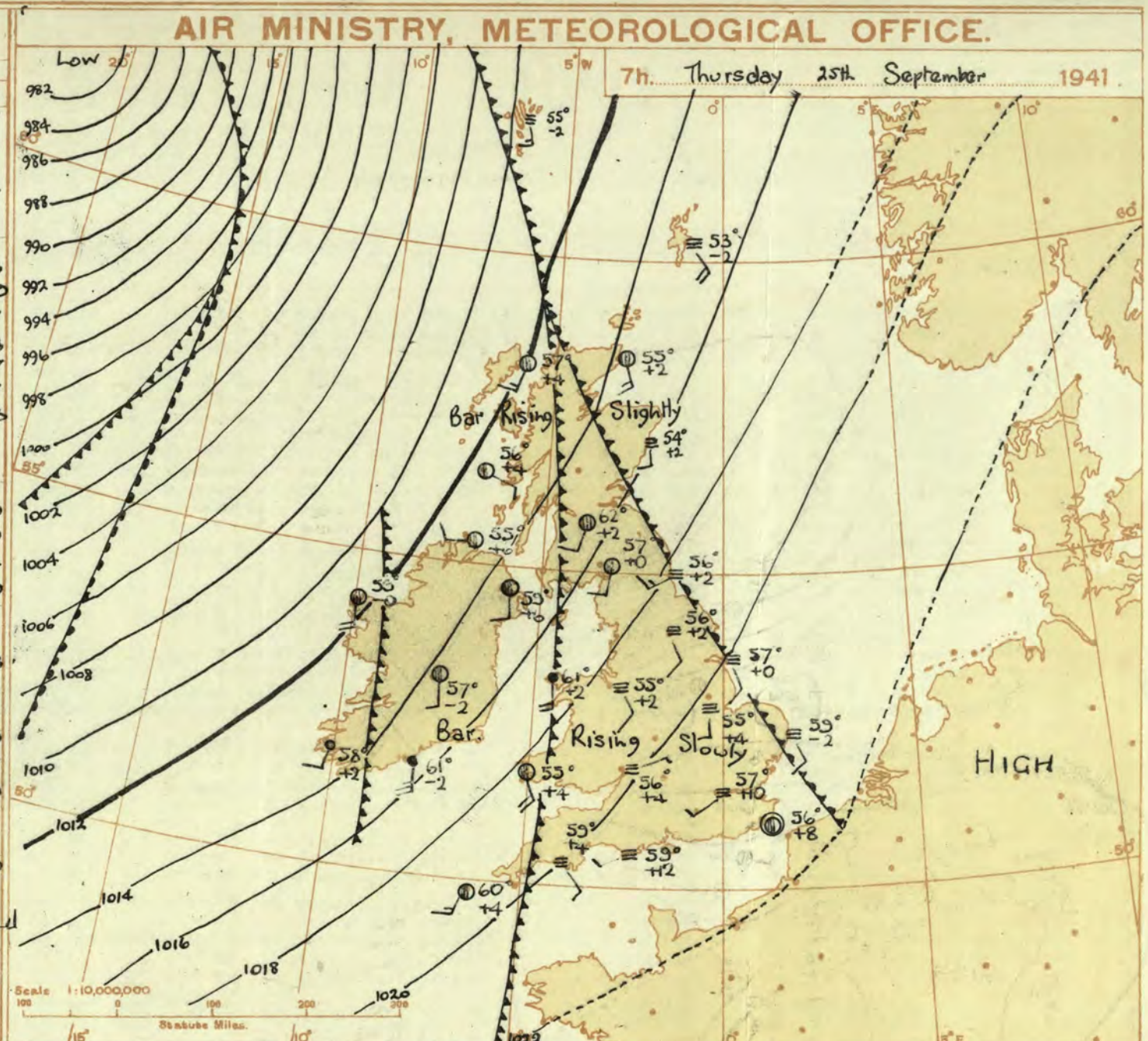
V

= Visibility. F = Force of wind—See page 4.

DD

= Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C<sub>1</sub>, C<sub>2</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility. F = Force of wind—See page 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. Thursday 25th September
1 S.E. England	
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys, and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

Light southwest wind. Variable cloud; local fog later or night and in morning: close.

Light or moderate southwest or south wind, freshening later. Cloudy; local drizzle, local coast and hill f: close.

Light or moderate south wind, freshening later. Variable cloud, slight local rain: close.

Light or moderate south wind, freshening considerably. Cloudy; occasional slight rain at first, a period of continuous rain later: mild.

As 5-9.

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 off Southwest Iceland is moving northeast and will cause strong winds and unsettled weather in the Northwest. Weather will continue fair in the Southeast.

FURTHER OUTLOOK.

Unsettled in the West and North; mainly fair in the Southeast.

Forecasts issued at 1030 G.M.T.

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

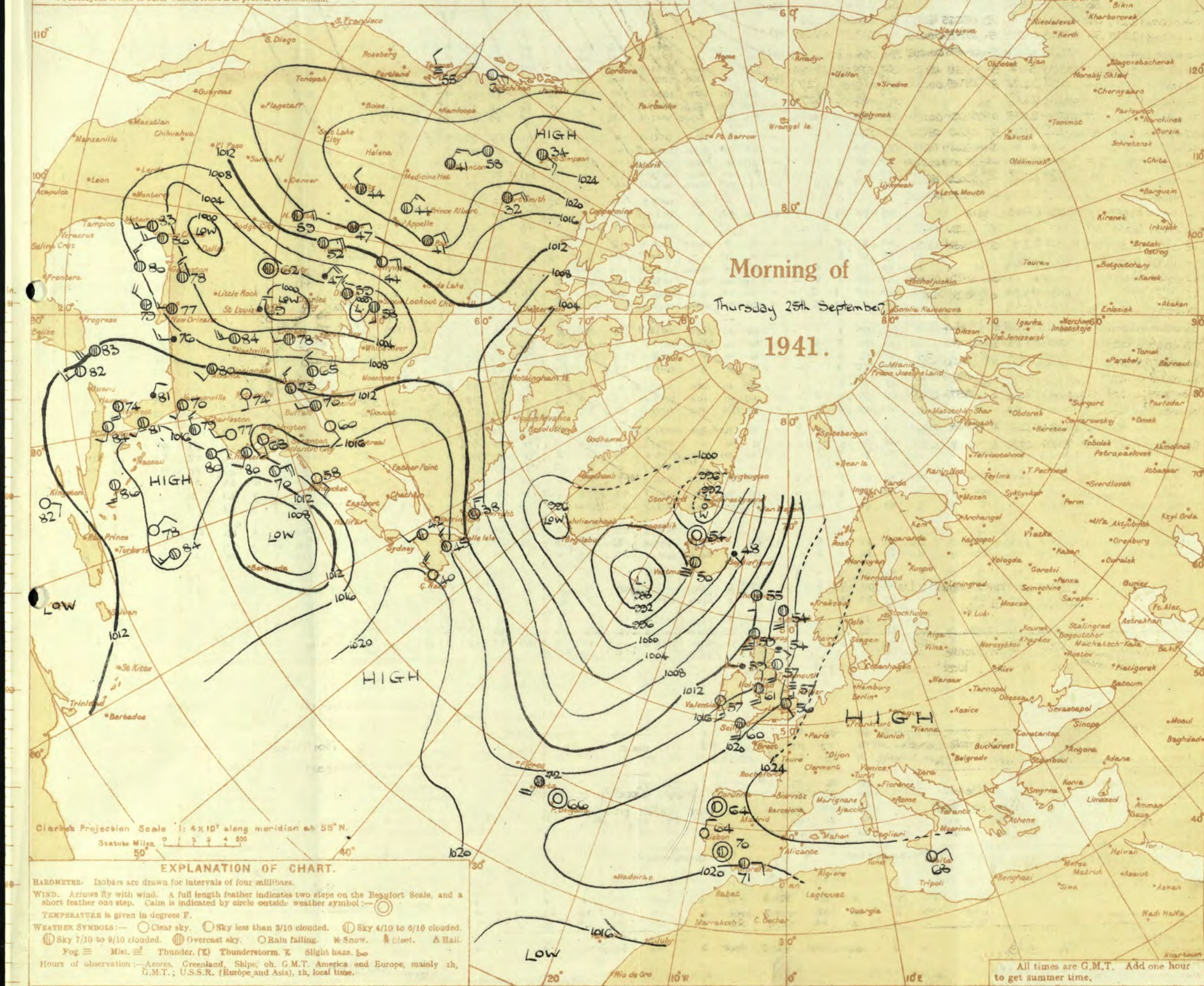
H.M.S.O. Press, Meteorological Office, Dunstable.



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

## OBSERVATIONS at 1 hr. G.M.T. 25th September

## OBSERVATIONS at 7 hr. G.M.T. 25th September

## 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. (8)	Humid. % (7)	Visiblity. 0-3 (6)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.				Weather.	Temp. °F. (20)	Humid. % (21)	Visiblity 0-9 (22)	Cloud.					Barom. at M.S.L. mb. (25)	Change in 3 hours. (26)	Wind.				Weather.	Temp. °F. (30)	Humid. % (31)	Visiblity 0-9 (32)	TEMPERATURE.					RAINFALL.		Sun- shine Hrs. (38)																																																																																																																																																																																																																																																																																																			
					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)	State of Ground. 0-9 (29)	Sea. 0-9 (30)			Max. Day 7h-15h °F. (31)	Min. Night 15h-7h °F. (32)	Min. on Gauge °F. (33)	Day 7h-15h mm. (34)					Night 15h-7h mm. (35)	24h mm. (36)																																																																																																																																																																																																																																																																																																									
																																													Form.	Amount.	Height of Base (feet)	Form.	Amount.		Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.	Height of Base (feet)	Form.	Amount.



# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Friday 26th September 1941.  
No. 29,163.

OBSERVATIONS at 13h. G.M.T. 25th September														OBSERVATIONS at 18h. G.M.T. 25th September														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
DISTANCE.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visib. miles (8)	Cloud.				Barom. at M.S.L. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visib. miles (22)	Cloud.				Barom. at M.S.L. (29)	Change in 8 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. 25th (37)					13h.—18h. 25th (38)					18h.—24h. 26th (39)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
																								Low.	Med.			High	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low	Total 0-10	Low



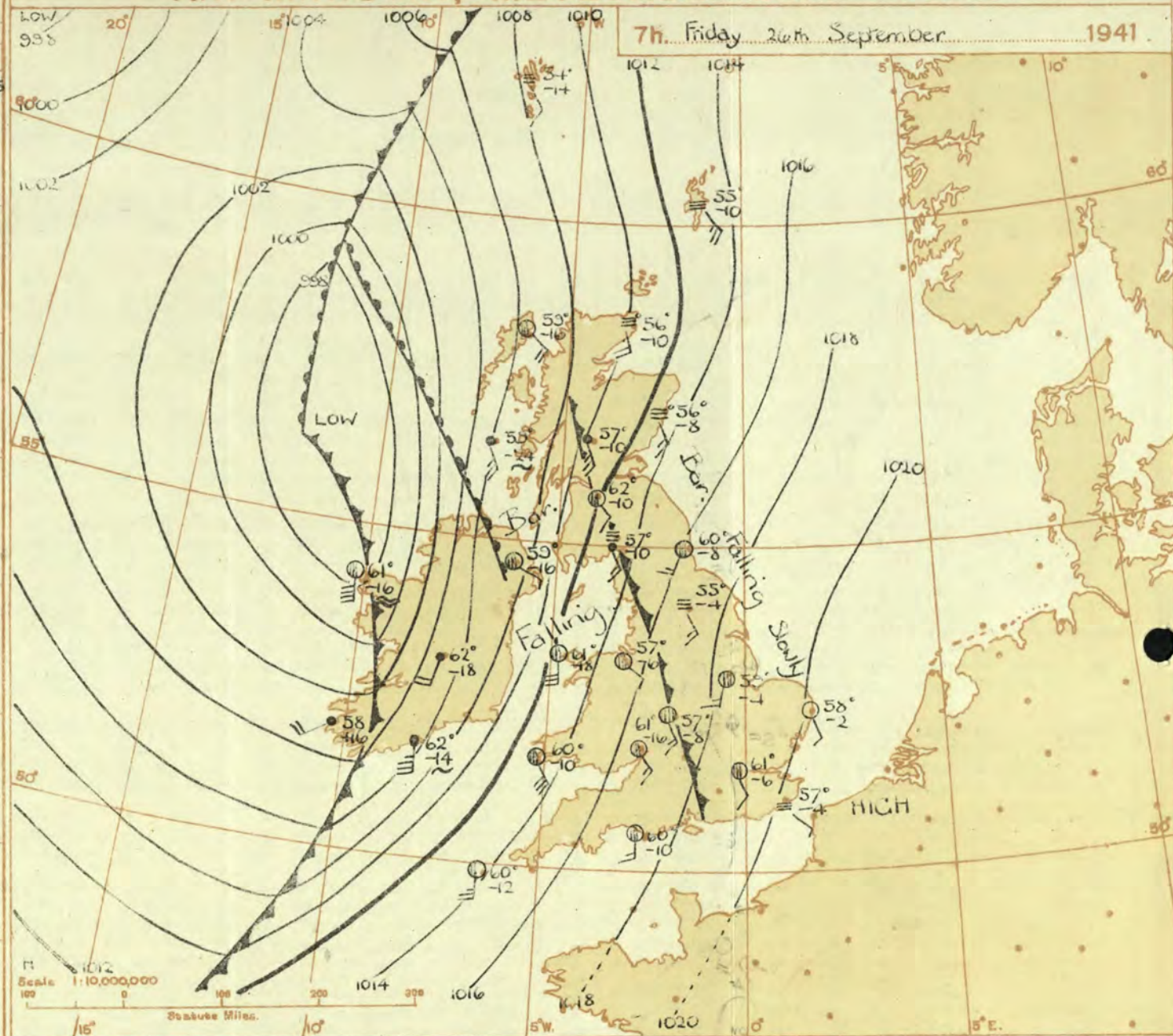
Abridged observations of additional stations in the

# AVIATION WEATHER CODE

13h. G.M.T. 25th September 18h. G.M.T.					01h. G.M.T. 2nd September 07h. G.M.T.							
III	C <sub>u</sub>	ww	VhN <sub>h</sub>	DDFWN	C <sub>u</sub>	ww	VhN <sub>h</sub>	DDFWN	C <sub>u</sub>	ww	VhN <sub>h</sub>	DDFWN
109	03	05590	15425	53	05561	14326	5-	05544	14324	53	05664	40025
115	51	09834	20287	54	01854	20325	54	01853	12214	54	02554	12423
203				84	01842	16324	5-	01844	12124	53	02544	08305
206	23	02854	16326	53	01863	20224	5-	01763	00023	52	02865	00028
210	57	02854	15363	54	02765	12226	5-	01764	00014	57	02864	14328
220	13	01853	14304	03	01990	13303						
230	87	02845	16127	8-	25847	13187	5-	02857	16327	5-	22947	45468
245	53	05547	17428	53	05527	15368	5-	02756	16236	5-	22566	15367
260	57	02846	16428	57	02864	18415	5-	03658	14228	57	02865	12267
278	5-	54518	15358	5-	57308	14358	5-	21638	14458	57	02846	14528
279	52	02848	17568	57	02855	17267	5-	02658	18358	57	03657	14168
285	23	02745	20327	23	02744	22287						
288	57	05563	19316	57	05576	16227	57	08454	16114	04	41430	18146
575				44	01851	16114	07	02830	14317	6-	02848	42428
301	07	22677	17467	07	05620	16364	50	05653	47443	07	05620	47517
321	52	05644	22327	54	05665	18226	07	47330	17213	5-	05648	16248
299	5-	43254	20244	57	05554	20214				--	48009	20249
292	53	08465	13340	57	05663	18124	00	47330	00010	5-	41428	14248
310	--	01644	24314	--	01644	24314				--	46109	24449
314	73	05563	20287	54	05685	20126	04	03620	22113	5-	05648	18228
338	57	02856	16467	57	02844	16527	5-	21638	16658	5-	02858	16628
334	--	02764	26215	--	02763	26215				--	03647	22128
340	87	61642	16327	49	02852	17326	54	05672	18213	57	02746	14217
136	10	05654	20214	03	05620	00015	04	05520	18212			
336	51	21762	20355	14	01762	16214				51	02762	16428
350				23	01653	18224	00	05520	16210	5-	05528	10228
308	19	02853	16226				03	05620	16114	57	02846	15227
379	83	02745	20246	23	01852	16324	--	46209	18449	5-	41418	18748
390				50	05553	24114	5-	45218	00048	5-	45247	08147
382	87	02855	18327	23	01853	18214	50	08433	14113	5-	05628	16228
438	5-	46310	30340									
430				50	08473	18113	5-	08448	00048			
409	57	02855	17325	57	02845	16316	5-	03628	15458	54	54516	15457

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

## AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 26th September
1 S.E. England	Moderate southerly wind, freshening. Fair at first, occasional rain later.
2 E. England ...	Average temperature.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Fresh to strong southerly winds, gale locally on coasts, veering southwest and moderating later. Cloudy with occasional rain, some bright intervals later.
6 South Wales ...	
7 North Wales ...	Average temperature.
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 to strong southerly winds, gale locally on coasts, veering southwest and moderating later. Cloudy with rain at times; average temperature.
13 A. W. Scotland	
13 B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Fresh to strong south to southwest winds. Cloudy with occasional rain; average temperature.
16 Orkneys and Shetlands	
17 N. W. Ireland	Moderate or fresh southwest winds. Local showers and bright intervals.
18 N. E. Ireland	Average temperature.
19 S. E. Ireland	
20 S. W. Ireland	

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

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

### GENERAL INFERENCE.

A vigorous depression centred off Northwest Ireland is moving northeast, and associated troughs are moving eastwards across the British Isles. Weather will be unsettled with rain or showers at times in all districts. There will be gales at first in Western coastal districts. Temperatures will be about normal.

### FURTHER OUTLOOK.

Continuing unsettled

↓ Gale warning in operation in districts 6, 7, 8, 12, 13, 16, 17, 18, 19, 20 and part of district 5. Times of issue 2345 25.9. and 0450 26.9.41.

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

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

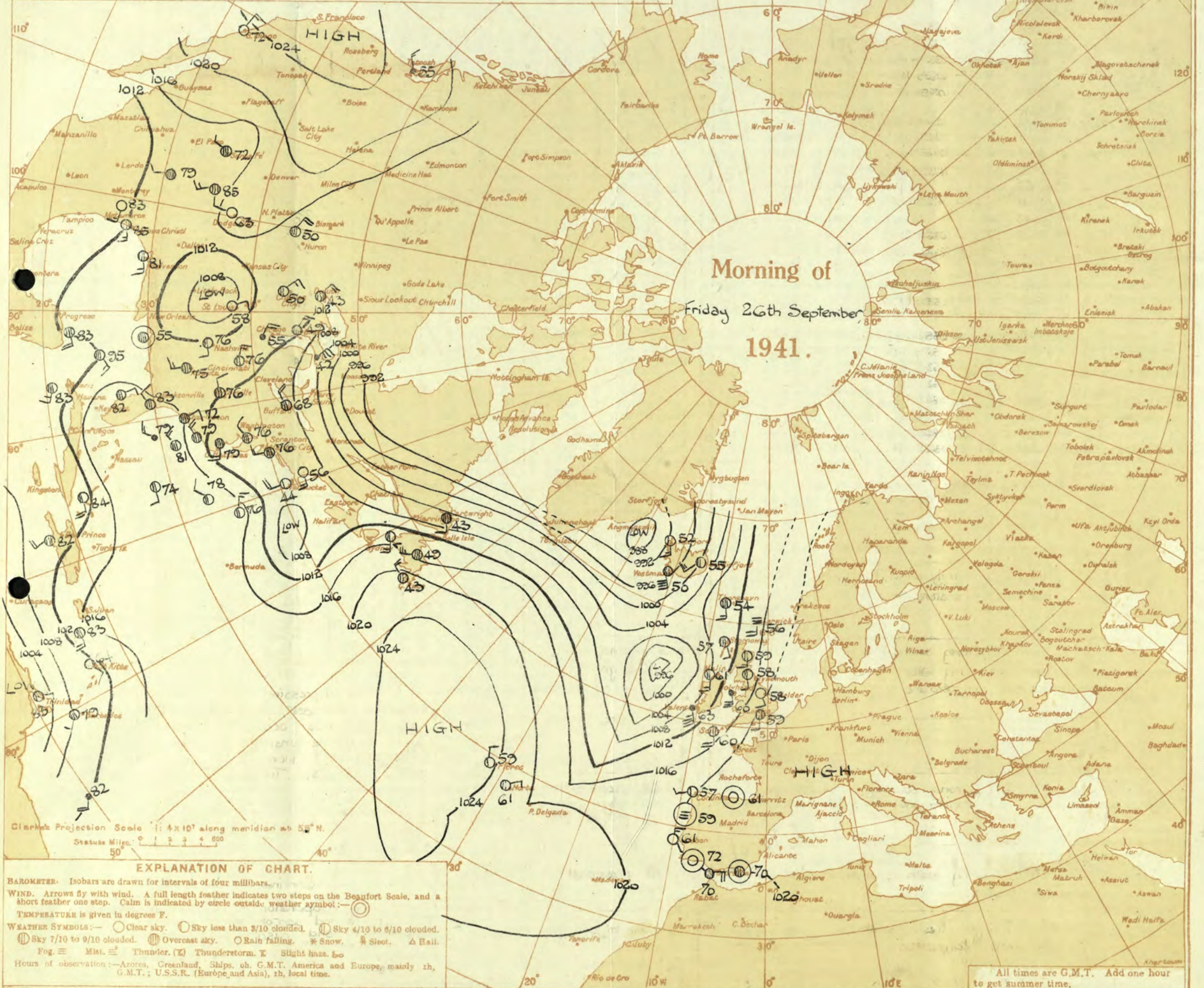
9.269/420. W. 8175. D. 8034. Sp. 348 3100 3/41



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Friday 26th September 1941.  
No. 29163.

OBSERVATIONS at 1 hr. G.M.T. 26th September 1941															OBSERVATIONS at 7 hr. G.M.T. 26th September 1941															PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
District.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (25)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	TEMPERATURE. RAINFALL. SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
					Dir.	Force.					Form.	Amount.	Height of Base (feet).			Dir.	Force.					Form.	Amount.	Height of Base (feet).			Dir.	Force.					Form.	Amount.	Height of Base (feet).	Dir.	Force.	Form.	Amount.	Height of Base (feet).	Dir.	Force.	Form.	Amount.	Height of Base (feet).	Dir.	Force.	Form.	Amount.	Height of Base (feet).	Sea.	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.	Sunshine Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Saturday 27th September 1941.  
No. 29164

OBSERVATIONS at 13h. G.M.T. 26th September														OBSERVATIONS at 18h. G.M.T. 26th September														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. 0-9 (8)	Cloud.				Barom. at M.S.L. (15)	Change in 8 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.				Barom. at M.S.L. (29)	Change in 8 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 (27)	Height of Base. (feet) (28)	7h.—13h. 26th (37)	13h.—18h. 26th (38)			18h.—24h. 26th (39)	1h.—7h. 27th (40)						
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lymington ... Manston ...	1017.9 1018.1 1017.7 1017.4 1018.1 1019.3 1019.6	-8 -6 -6 -10 -4 -10 -4	SW SW SSW SSW S SE SE'S	2 2 2 3 2 2 2	c c c c c c c	65 68 66 67 65 65 67	85 85 85 75 92 85 85	7 8 6 5 5 7 6	5 7 5 5 5 - 5	2 7 7 8 2 - -	9 7-8 7-8 7-8 7-8 7-8 9	1500 1600 900 2400 2500 74 7000	1017.4 1017.6 1017.4 1017.2 1017.7 1019.0 1018.3	0 +2 +2 +2 +2 +6 +6	SSW - SSW S S - -	1 0 2 3 1 - 0	bc c c bc bc fg Z.	65 66 65 61 63 61 64	75 92 85 92 85 97 92	8 6 7 8 7 5 6	8 5 8 4 5 3 -	7 4 8 - 1 2 6	2-3 4-6 1 7-8 2-3 0 9	4-6 9 2500 1 4000 - 6000	0 0 0 0 0 0 0	*	cm, r, c cm, b, c, w cm, d, c cm, c cm, p, r, c cm, c cm, c	cm, c cm, c cm, c cm, c cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c cm, w, c cm, w, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c cm, w, c cm, w, c cm, w, c cm, w, c				
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1018.8 1018.9 1019.6 1017.4 1017.5	-10 -6 -4 -12 -4	SE SE SE S S	2 2 4 4 4	c c bc c c	69 64 62 70 66	85 92 92 75 85	8 7 6 8 6	5 5 - 7 5	- - - - -	9 7-8 7-8 7-8 4-6	5700 6000 - 4000 1000	1018.2 1018.3 1019.4 1017.4 1016.4	+2 0 +2 +2 +14	SE SE SE SE S	2 2 2 2 3	c c c c c	65 62 61 67 64	92 92 65 92 85	6 7 7 7 7	5 5 7 5 3	7 2 4 1 1	7-8 9 7-8 4-6 9	9 9 - 3000 2500	0 0 0 0 0	*	cm, r, c cm, c cm, c cm, c cm, c	cm, c cm, c cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c cm, w, c cm, w, c				
3	Birmingham Upper Heyford	1016.0 1017.1	-6 -10	SSW S	3 2	c c	66 67	75 75	7 7	5 7	4 6	8 9	1500 1000	1015.8 1016.2	0 0	SE SE	2 1	bc bc	65 66	75 75	8 8	8 7	7 3	1 4	2-3 2-3	4-6 4-6	1500 3500	0 1	*	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c		
4	Ross-on-Wye ...	1015.4	-6	SW	4	c	68	75	8	7	5	-	7-8	9	2500	1015.2	-4	S	3	c	65	75	8	5	4	1	7-8	7-8	2500	0	*	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Soilly (St. Mary's) Guernsey ...	1013.4 1016.6 1017.3 1016.3 1014.7 1012.7	-8 -6 -8 -4 -2 -2	SSW SSW S S SE SW	5 4 3 4 5 2	c c c c bc c/d	65 67 62 63 62 60	75 75 92 85 92 92	8 7 8 7 8 7	5 7 4 5 6 5	- - - - - -	6 7 4 9 4-6 10	9 9 9 10 1500 1400	1013.1 1016.4 1016.6 1015.2 1014.3 1012.9	-2 -2 -2 -8 +6 -2	SSW S SE SE - SW	3 3 3 3 0 2	c/r bc c c c bc/r	63 64 61 61 58 57	85 85 92 92 97 97	8 8 8 6 7 7	5 3 5 3 5 4	2 1 3 9 - 2	4-6 4-6 10 9 10 4-6	1000 2500 4000 1400 1000 1100	0 0 0 0 1 1	4 3 2 3 3 3	cm, c c c c FFcbe ced.	cm, c cbe cbe cbe cm, c cm, c	cm, b, r, c cm, w, c cm, w, c cm, w, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c cm, w, c cm, w, c cm, w, c				
6	Pembroke ...	1012.3	-8	S	6	c	61	92	7	7	-	4-6	9	1500	1012.9	-2	SW	2	bc	58	97	5	5	-	-	10	10	500	1	5	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c	
7	Holyhead (Valley) Chester (Sealand)	1011.1 1013.9	-4 -6	SE SE	6 3	id. c	63 68	85 65	8 8	5 5	7 2	7-8 9	1500 2500	1012.4 1013.3	+8 0	S SE	4 3	id. Z.	58 66	92 75	6 6	5 5	- 7	- 1	10 4-6	10 2500	1 0	4 0	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c			
8	Manchester ...	1014.9	-8	SW	4	c	67	75	7	5	7	-	4-6	10	2300	1014.6	+2	SE	3	c	66	85	7	-	9	1	7-8	-	0	*	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c	
10	Spurn Head ... Catterick ... Tynemouth ...	1017.7 1014.8 1015.1	0 -12 -10	SE S S	3 3 5	z. z. z.	61 65 67	92 75 75	5 5 6	5 5 8	- - -	10 10 4-6	2500 1500 2800	1016.8 1014.4 1014.8	-2 +6 0	SE S S	3 3 3	z. z. z.	61 66 58	85 75 92	6 4 6	2 5 8	6 6 3	- 4-6 4-6	7-8 9 7-8	4000 1200 2400	0 0 0	2 * 2	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c			
11	St. Abbs Head Leuchars ...	1011.2 1011.5	-14 -8	S S	4 2	c c	63 64	75 85	7 7	4 5	7 1	4-6 7-8	2500 2500	1011.6 1011.8	+4 +10	SE SE	4 2	z. z.	62 63	85 75	5 7	5 7	- -	4-6 9	9 1800	0 1	3 *	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c				
12	RAF (Abbots L.) RAF (Abbots L.) RAF (Abbots L.) Point of Ayre ...	1009.8 1012.0 1011.5	-14 -4 -2	SE SW SW	4 4 4	c c c	64 61 61	75 85 92	7 7 8	5 5 6	2 2 1	7-8 9 9	1800 800 1000	1011.7 1013.2 1011.8	+18 +12 +6	SE SW SW	3 5 4	z. id. c	61 57 61	85 92 92	6 5 8	6 5 5	7 2 4	- 10 4-6	9 450 9	1 1 1	4 4 4	cm, c cm, c cm, c cm, c	cm, c cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c cm, w, c				
13a	Tiree ...	1004.2	+6	SE	4	rr	57	97	6	-	2	-	10	1200	1011.0	+36	WSW	2	bc	54	85	8	1	3	5	1	2-3	2800	0	4	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c	
13b	Stornoway ...	1003.9	-8	SE	7	c/pr	51	85	9	5	7	-	7-8	9	2000	1009.1	+32	SW	3	c/r	55	85	8	5	7	-	7-8	9	2000	1	2	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c
16	Dalwhinnie ... Aberdeen ... Wick ... Sumburgh ...	1007.0 1012.1 1009.7 1013.5	-10 -10 -6 -4	SE S SE SE	6 4 4 6	c z. z. z.	57 60 59 55	85 85 92 97	7 6 5 4	5 7 5 5	4 7 7 -	7-8 7-8 2-3 10	2500 800 4000 1500	1010.5 1012.2 1009.5 1012.7	+26 +4 +6 0	S SE SE SE	5 4 4 6	ir z. ir d.d.	57 58 57 55	85 85 97 97	7 5 5 4	6 5 7 5	- 10 4-6 10	9 1100 5000 1500	1 3 1 1	*	cm, c cm, c cm, c cm, c	cm, c cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c cm, w, c					
17	Blackod Point...	1006.6	+2	W	5	bc	58	75	8	2	6	-	2-3	4-6	1500	1008.9	+22	S	2	c	56	75	8	-	-	7	0	9	-	0	4	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c
18	Malin Head ... Aldergrove ...	1005.0 1007.4	+30 +6	SSW S	4 3	pr rr	58 59	92 92	7 7	6 -	- 2	9 10	800 2000	1010.2 1011.7	+26 +30	W -	1 0	c c	55 56	85 85	8 9	2 5	- -	7 6	2-3 1	9 9	4000 1800	1 1	*	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c		
19	Birr Castle ...	1008.0	+26	SSW	2	c/pr	58	85	8	3	-	2-3	7-8	1500	1010.0	+8	SE	1	c	58	85	8	5	1	-	7-8	9	2500	1	2	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c	
20	Valencia Obay. † Roches Point	1003.2 1003.2	+26 +30	W W	3 4	bc bc	57 54	85 85	8 8	3 3	3 5	4-6 2-3	2500 5000	1010.3 1010.9	+4 +10	S W	3 3	c c	57 59	92 85	9 8	1 5	4 7	8 5	1 2-3	9 7-8	2500 2500	1 1	4	cm, c cm, c cm, c	cm, c cm, c cm, c	cm, b, r, c cm, w, c cm, w, c	cm, r, w cm, w, c cm, w, c		

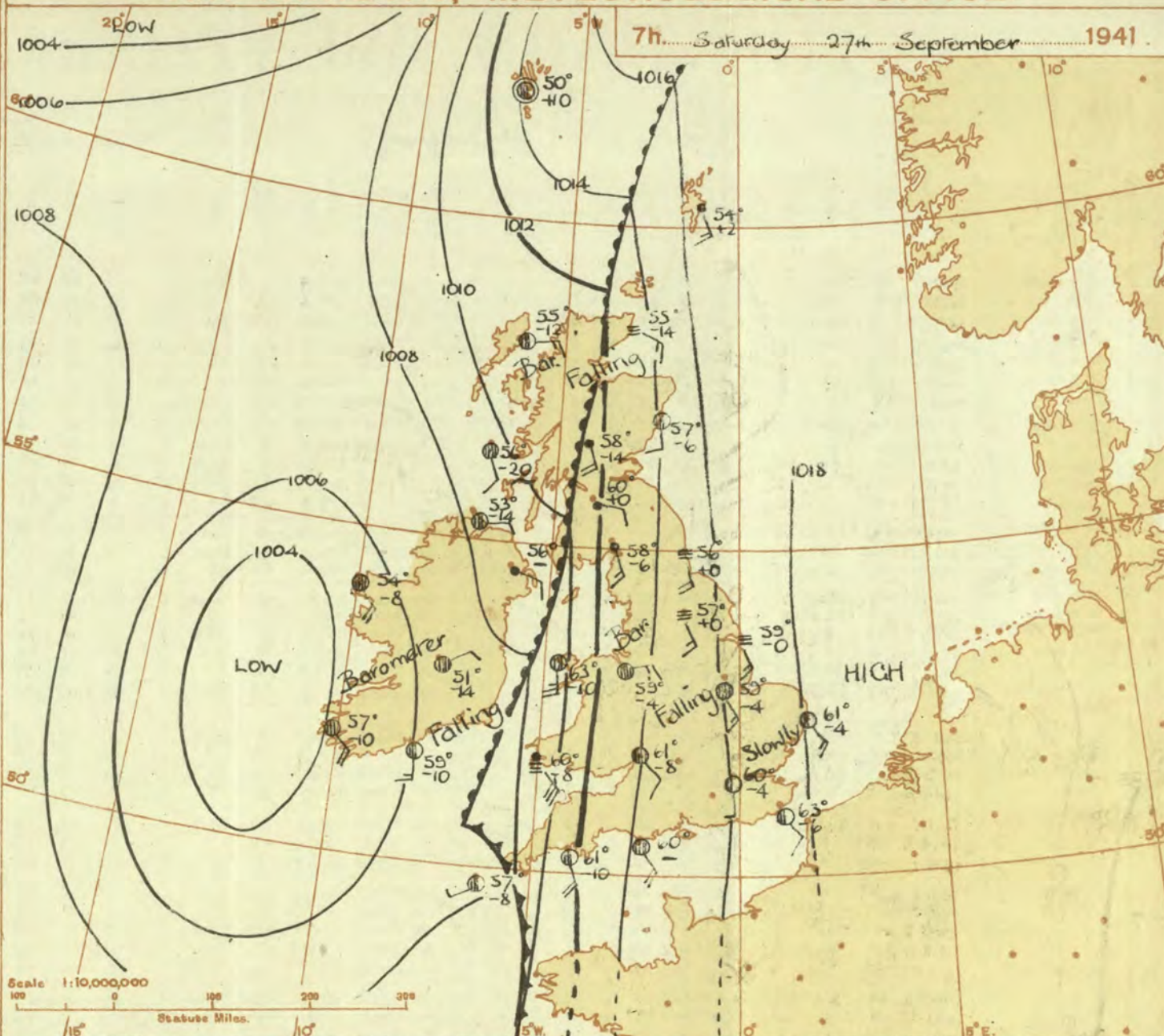


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 27th Sept				18h. G.M.T.				01h. G.M.T. 27th Sept				07h. G.M.T.			
III	C	wwVhN <sub>h</sub>	DDFWN	C	C <sub>2</sub>	wwVhN <sub>h</sub>	DDFWN	C	C <sub>2</sub>	wwVhN <sub>h</sub>	DDFWN	C	C <sub>2</sub>	wwVhN <sub>h</sub>	DDFWN
109	57	25546	15688	57	61427	45728	07	01790	00014	5-	05508	11468			
115	57	02844	12486	52	62738	20488	54	01844	20265	52	62735	12468			
203				83	02845	16467	5-	03248	12318						
206	57	02864	14427	57	61855	18468	5-	01864	00064	57	02736	08268			
210	57	02864	14467	53	02864	14425	5-	25798	00028	57	61665	06268			
220															
230															
245	52	64646	49468	83	02846	20367	50	00853	20113	5-	62748	00068			
260	57	05545	14468	53	05547	17527	5-	62658	06368	57	61526	15467			
260	57	02854	16427	57	02844	18427	5-	64658	00068	57	22764	08267			
278	5-	54638	47558	56	01732	18264	5-	62668	12368	02	64518	12568			
279	57	02754	18427	62	54626	18458	02	52668	07268	52	51854	12367			
285	57	03746	18528	53	02746	18328				23	05645	12317			
288	57	05632	17427	54	05664	16427	07	05690	13212	57	05623	14215			
275	62	61645	16568	40	02852	00015	07	02790	08328	57	02734	14227			
301	52	05655	16628	57	22644	16367	5-	05648	14368	53	05633	12524			
321	57	21654	49457	53	02751	15325	00	47290	14140	--	46109	14319			
299	52	05545	10447	57	05543	16414	50	05552	16262	--	46109	20449			
292	5-	05567	15327	57	05663	15365	00	05590	13210	5-	08428	14258			
310				--	01646	26416				--	46109	16349			
614	11	05634	49467	43	05571	16226	00	43390	00040	--	46009	10149			
333	82	61955	15668	5-	54628	20358	5-	61645	16458	53	02864	12566			
334	--	03747	20228							--	02544	20215			
340	53	02846	16488	54	01764	14325	03	05690	15414	5-	05538	13418			
136	73	02757	15317	5-	02867	14367	00	47190	12223	--	44209	12249			
336	14	01762	16415												
350	72	25655	16388	03	05690	14225	00	47390	14200	--	46209	12249			
368	77	02854	15325	53	02755	15325	5-	05647	17327	53	02636	24427			
379	8-	02858	16458	40	01863	16324	50	41644	16344						
390	5-	05557	12327	5-	05558	18128	--	46009	00049	03	49290	00041			
382	57	02844	15327	44	01851	15214	00	47390	16140	5-	05528	14328			
438															
430															
400	51	52726	16458	54	05641	00015	00	08490	08340	00	08490	06201			
				52	62517	16468	5-	22528	17468	57	10625	09360			

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 27th September
1 S.E. England	Light or moderate southerly winds. Fine and rather warm; fog forming during night and dispersing tomorrow morning.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Winds mainly southerly, moderate; fresh locally on West coasts. Cloudy with occasional rain, chance of local thunder. Some coast and hill fog; average temperature
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	As 1-3
11 S.E. Scotland	As 4-5
12 S.W. Scotland & Isle of Man.	
13 A. W. Scotland	
13 B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Moderate south to southwest winds. Cloudy with occasional rain or showers. Average temperature.
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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

A depression centred just west of Ireland will later move northwards. Weather will continue fine and rather warm in eastern districts, but with some fog forming during the night. In other districts it will be unsettled with occasional rain or showers and an average temperature.

FURTHER OUTLOOK.

Unsettled in most districts.

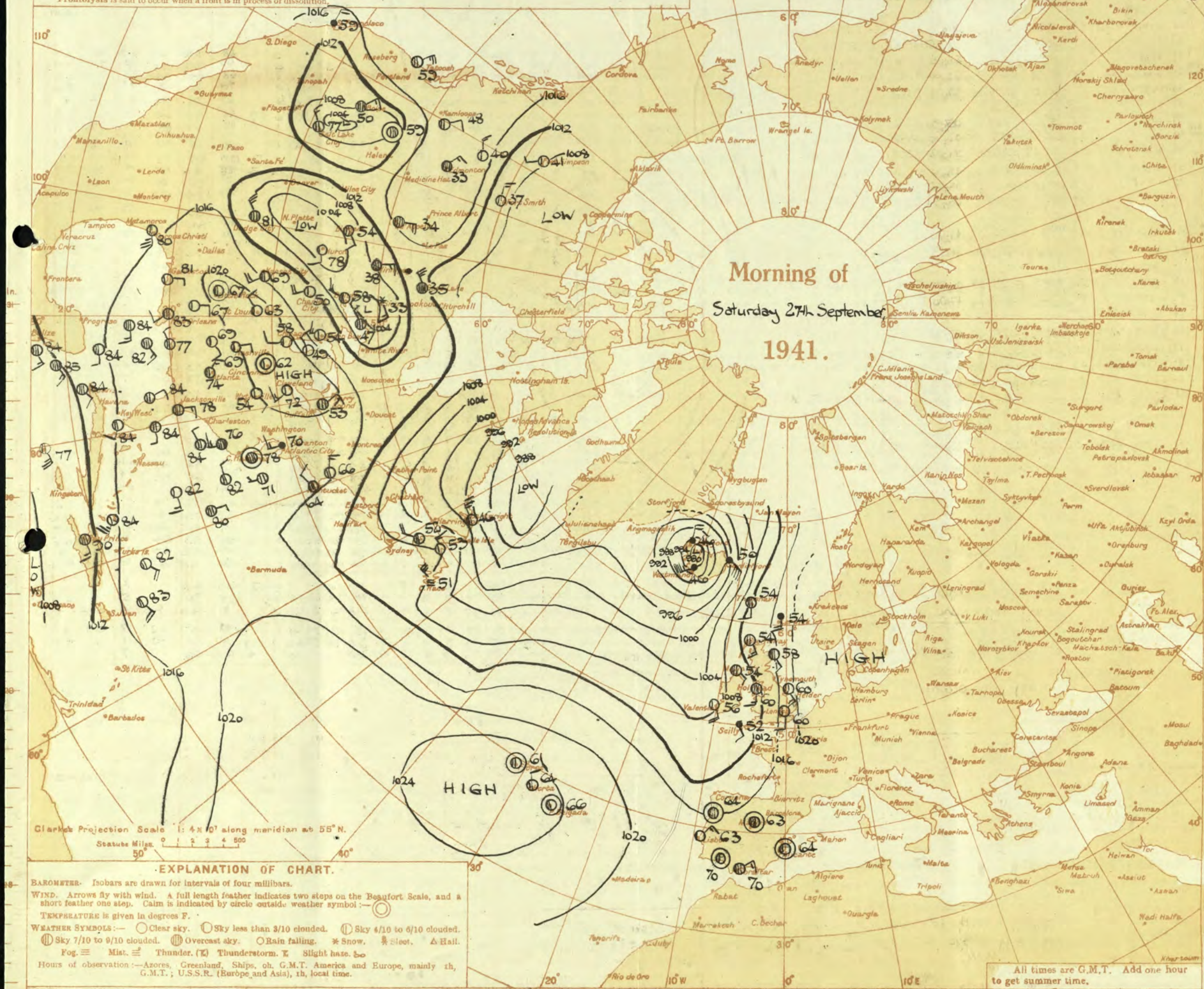
Forecasts issued at 1030 G.M.T.  
H.M.S.O. Press, Meteorological Office, Dunstable.  
N. K. JOHNSON, D.Sc., A.R.C.S., Director.  
4209/4120. No. 9176. D. 8034. Op. 340. 2500. 5/41.



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Saturday 27th September 1941.  
No. 29,164

OBSERVATIONS at 1 hr. G.M.T. 27th September...														OBSERVATIONS at 7 hr. G.M.T. 27th September...														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Temp. °F.	Humid. %	Visibilty. 0-9	Cloud.				Barom. M.S.L. mb.	Change in 3 hours.	Wind.		Temp. °F.	Humid. %	Visibilty. 0-9	Cloud.			State of Ground. 0-9	Sea. 0-9	TEMPERATURE.			RAINFALL.		Sun-shine 26th Hrs.						
					Dir.	Force.				Form.	Amount.	Height of Base. (feet).	Dir.			Force.	Form.				Amount.	Height of Base (feet).	Max. Day 7h-15h °F.			Min. Night 15h-7h °F.	Min. on Grass °F.	Day 7h-15h mm.	Night 15h-7h mm.								
																														(1)		(2)	(3)	(4)	(5)	(6)	(7)
1	London (Kew) ... 18	1017.6	-2	SSE	2	60	97	4	-	-	-	-	1015.7	-1.9	SE	2	60	97	2	-	-	-	0	0	0	68	56	47	0.2	Tr	0.1						
	Croydon ... 217	1017.2	-2	SSE	2	59	97	4	-	-	-	-	1016.1	-1.1	SSE	2	59	97	5	2	4	-	2.3	2.3	3000	0	0	70	57	55	Tr	Tr	1.4				
	S. Farnborough ... 226	1017.2	-2	SSE	2	59	97	4	-	-	-	-	1015.6	-1.6	SSE	2	59	97	1	5	-	-	1.0	1.0	2000	0	0	68	57	54	Tr	Tr	0.8				
	Boscombe Down ... 417	1016.8	-1.8	SSE	2	57	97	1	-	-	-	-	1014.7	-2.1	SSE	3	56	97	4	5	-	-	1.0	1.0	1000	0	0	70	53	48	Tr	Tr	2.0				
	Thorney Island ... 10	1016.7	-1.7	SSE	2	60	97	2	-	-	-	-	1015.2	-1.5	SSE	2	60	97	4	5	-	-	2.3	2.3	450	0	0	69	58	54	-	-	-				
	Lymington ... 346	1016.8	-1.8	SSE	2	61	97	6	-	-	-	-	1017.7	-0.9	SSE	2	63	92	6	5	7	8	4.4	4.4	6000	0	0	68	52	49	-	-	2.9				
	Manston ... 154	1017.3	-1.4	SSE	2	62	97	5	-	-	-	-	1016.7	-0.6	SSE	1	61	97	4	-	3	-	0	7.8	-	1	0	68	61	58	-	-	2.5				
2	Shoeburyness ... 11	1018.3	-2	SSE	2	62	97	5	-	-	-	-	1017.1	-1.2	SEE	1	63	92	5	5	-	-	9	9	5500	1	2	69	59	52	-	-	1.9				
	Felixstowe ... 15	1019.2	-2	SSE	2	61	92	6	-	-	-	-	1018.5	-0.7	SSE	3	61	97	5	-	4	-	0	4.6	-	1	3	68	60	55	-	-	3.9				
	Gorleston ... 5	1017.9	+2	SSE	2	57	97	2	-	-	-	-	1019.5	+1.6	SSE	3	58	97	4	-	3	-	0	4.6	-	0	0	70	55	48	-	-	1.5				
	Mildenhall ... 19	1017.4	+2	SSE	2	57	97	2	-	-	-	-	1016.2	-1.2	SSE	3	59	97	1	5	-	-	1.0	1.0	200	0	0	70	53	47	-	-	1.0				
	Cranwell ... 240	1017.4	+2	SSE	2	57	97	2	-	-	-	-	1016.2	-1.2	SSE	3	59	97	1	5	-	-	1.0	1.0	200	0	0	70	53	47	-	-	1.0				
3	Birmingham ... 535	1016.7	-2	SSE	2	55	97	1	-	-	-	-	1014.6	-2.1	SSE	3	58	97	1	-	-	-	1.0	1.0	1500	0	0	70	55	50	Tr	Tr	1.2				
	Upper Heyford ... 408	1016.7	-2	SSE	2	55	97	1	-	-	-	-	1015.0	-1.7	SSE	1	56	97	3	-	-	-	1.0	1.0	1500	1	1	68	54	52	Tr	Tr	4.0				
4	Ross-on-Wye ... 223	1016.7	-2	SSE	2	55	97	1	-	-	-	-	1013.5	-3.2	SSE	2	56	97	6	5	-	-	1.0	1.0	450	0	0	71	57	52	Tr	Tr	-				
5	Hartland Point ... 299	1011.8	-8	SSE	4	62	85	7	5	2	-	-	1003.7	-8.1	SSE	4	61	85	7	5	6	-	4.6	7.8	1100	0	4	65	60	58	Tr	Tr	0.6				
	Bristol ... 209	1016.1	-6	SSE	2	57	97	7	5	-	-	-	1013.6	-2.5	SSE	3	62	92	6	5	-	-	3	9	400	0	4	70	56	45	-	-	4.7				
	Portland Bill ... 32	1015.8	-10	SSE	4	60	82	8	4	-	-	-	1014.6	-1.2	SSE	4	60	92	7	5	-	-	1.0	1.0	2500	0	4	62	57	-	-	-	-				
	Plymouth ... 82	1014.5	-6	SSE	4	61	85	7	5	-	-	-	1012.1	-2.4	SSE	4	61	92	7	5	-	-	2	9	3+	3+	400	0	3	66	60	57	-	-	1.2		
	The Lizard ... 240	1012.1	-8	SSE	4	57	97	7	8	2	-	-	1009.5	-2.6	SSE	6	58	97	7	5	-	-	1.0	1.0	1000	1	5	62	57	-	-	-	0.4				
	Scilly (St. Mary's) ... 163	1011.1	-14	SSE	2	52	97	7	5	-	-	-	1007.6	-3.5	SWW	1	57	97	7	5	-	-	9+	9+	1200	1	3	62	57	-	-	-	0.2				
	Guernsey ... 175	1011.1	-14	SSE	2	52	97	7	5	-	-	-	1007.6	-3.5	SWW	1	57	97	7	5	-	-	9+	9+	1200	1	3	62	57	-	-	-	0.2				
6	Pembroke ... 142	1011.7	-10	SSE	3	58	97	3	-	-	-	-	1008.5	-3.2	SSE	6	60	92	3	-	-	-	1.0	1.0	1500	1	3	62	57	-	-	-	0.1				
	Holyhead (Valley) ... 26	1011.7	-10	SSE	3	60	97	5	5	-	-	-	1008.4	-3.3	SSE	5	60	92	3	-	-	-	1.0	1.0	1700	1	3	66	56	56	0.2	8	-				
	Chester (Sealand) ... 16	1014.0	-2	SSE	3	62	85	6	5	7	-	-	1012.6	-1.4	SSE	3	63	92	6	5	-	-	1.0	1.0	1700	0	0	71	59	56	-	-	1.5				
8	Manchester ... 70	1015.3	0	SSE	3	61	92	6	5	4	-	-	1013.8	-1.5	SSE	3	61	92	6	5	-	-	2.6	4.6	3000	0	0	70	58	55	-	-	0.4				
10	Spurn Head ... 29	1017.7	+6	SSE	3	60	97	6	5	-	-	-	1016.1	-1.6	SSE	3	59	97	0	-	-	-	1.0	1.0	1500	1	2	65	57	-	-	-	2.1				
	Catterick ... 175	1016.3	+8	SSE	3	58	97	2	-	-	-	-	1015.5	-0.8	SSE	3	57	97	3	-	-	-	1.0	1.0	300	0	0	67	56	52	-	-	0.3				
	Tynemouth ... 108	1016.2	-2	SSE	4	59	92	6	5	-	-	-	1015.0	-1.2	SSE	4	56	97	1	5	-	-	1.0	1.0	1500	0	3	68	56	55	-	-	-				
11	St. Abbs Head ... 280	1014.9	+2	SSE	3	56	92	7	5	4	-	-	1012.3	-2.6	SSE	5	57	92	6	5	4	-	4.6	4.6	2000	0	3	67	55	-	-	-	-				
	Leuchars ... 36	1014.4	-2	SSE	2	58	97	6	5	-	-	-	1013.2	-1.7	SSE	3	58	97	5	5	-	-	4.6	9+	1500	2	2	65	56	56	-	-	0.0				
12	Renfrew (Abbots I.) ... 19	1013.1	-6	SSE	2	58	97	4	5	-	-	-	1011.5	-1.6	SSE	2	58	97	6	5	2	-	4.6	9+	2500	1	1	65	54	47	0.4	7	0.1				
	Eskdalemuir ... 794	1013.1	-6	SSE	2	58	97	4	5	-	-	-	1011.5	-1.6	SSE	2	58	97	6	5	2	-	4.6	9+	2500	1	1	63	55	55	0.2	5	0.0				
	Point of Ayre ... 30	1013.0	0	SSE	2	57	97	7	-	2	-	-	1010.2	-2.8	SSE	5	59	97	6	5	2	-	4.6	10	800	1	5	64	56	-	-	-	-				
13	Tiree ... 22	1013.1	0	SSE	1	56	97	7	5	-	-	-	1009.5	-3.6	SSE	2	56	97	7	5	-	-	1.0	1.0	2200	0	5	60	46	-	-	-	1.2				
13	Stornoway ... 80	1014.6	+6	SSE	3	54	85	7	5	4	-	-	1012.3	-2.3	SSE	3	55	92	6	5	4	-	7.8	9+	2500	1	2	62	51	-	-	-	0.0				
16	Dalwhinnie ... 1176	1014.6	+6	SSE	3	54	85	7	5	4	-	-	1012.3	-2.3	SSE	3	55	92	6	5	4	-	7.8	9+	2500	1	2	61	47	43	Tr	Tr	0.0				
	Aberdeen ... 79	1014.6	+6	SSE	3	54	85	7	5	4	-	-	1012.3	-2.3	SSE	3	55	92	6	5	4	-	7.8	9+	2500	1	2	61	47	43	Tr	Tr	0.0				
	Wick ... 119	1015.7	+12	NNE	2	57	97	7	5	7	2	-	1013.9	-1.8	SSE	3	55	97	3	-	-	-	1.0	1.0	1500	1	3	61	55	54	Tr	Tr	0.2				
	Sumburgh ... 30	1017.0	+18	SSE	3	54	97	5	5	-	-	-	1017.3	+0.3	SSE	3	54	97	4	5	-	-	1.0	1.0	100	1	1	59	52	49	1	4	-				
17	Blackrod Point ... 18	1008.2	-14	SSE	3	56	75	8	-	4	-	-	1005.7	-2.5	SSE	4	54	92	8	-	7	-	0	10	-	0	2	63	53	-	-	-	-				
18	Malin Head ... 84	1010.9	-10	SSE	1	54	85	7	9	-	-	-	1007.8	-3.1	SSE	1	53	92	8	8	-	-	7.8	7.8	2500	0	2	64	51	-	-	-	-				
	Aldergrove ... 268	1011.6	-12	NNE	2	52	97	7	5	-	-	-	1009.1	-2.5	SSE	2	56	92	7	6	7	-	2.3	10	300	1	1	61	45	40	2	0.4	-				
19	Birr Castle ... 173	1009.5	-10	NNE	1	49	97	8	-	-	-	-	1006.8	-2.7	NNE	1	51	97	8	5	-	-	1.0	1.0	2500	1	0	62	47	42	7	0.1	3.2				
20	Valentia Obay. ... 30	1007.7	-18	SSE	3	56	85	8	-	-	-	-	1004.5	-3.2	SSE	3																					



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

SECRET

Sunday, 29th September 1941.  
No. 29165

OBSERVATIONS at 13h. G.M.T. 27th September														OBSERVATIONS at 18h. G.M.T. 27th September														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)	Visiblity. 0-6 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visiblity. 0-6 (22)	Cloud.					Barom. at M.S.L. mb. (29)	Change in 8 hours. (30)	WEATHER.					
				Dir.	Force. 0-12 (4)					Form.	Amount. Low 0-10 Med. 10-10 High 10-10 (11) (12) (13)	Height of Base. (feet) (14)	Form.	Amount. Low 0-10 Med. 10-10 High 10-10 (23) (24) (25)			Height of Base. (feet) (26)	State of Ground. 0-6 (27)					7h.—13h. 27th (37)	13h.—18h. 27th (38)	18h.—27th 28th (39)	1h.—7h. 28th (40)									
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne Manston	1013.3 1013.7 1013.0 1012.6 1013.4 1013.3 1014.9	-18 -14 -18 -16 -12 -14 -12	SE SE SE SE SE SE SE	3 3 3 4 3 2 3	bc bc z c b b z	75 74 75 69 71 73 73	65 65 65 85 75 75 65	8 2 1 5 1 1 1	- - - - 1 3 -	4.6 4.6 2.3 7.8 2.3 Tr 1	4.6 3000 3000 2000 4000 4000 2800	1012.1 1012.4 1011.5 1011.3 1013.9 1013.4	-8 -10 -10 -6 -4 -8 -6	ESE SE ESE ESE E ESE ESE	2 2 2 3 2 2 3	bc bc bc z c bc z	69 69 68 64 66 67 67	75 75 85 92 85 85 75	7 7 7 7 7 7 6	8 6 8 8 5 3 4	1 1 2 1 0 1 Tr	2.3 4.6 0 4.6 1 2.3 Tr	4.6 4000 - 2500 4000 - 4000	0 0 0 0 0 0 0	0 0 0 0 0 0 0	bfc bfc bfc bfc bfc bfc bfc	bfc bfc bfc bfc bfc bfc bfc	bfc bfc bfc bfc bfc bfc bfc	bfc bfc bfc bfc bfc bfc bfc					
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1015.0 1015.8 1017.4 1014.3 1014.0	-14 -8 -6 -16 -20	SE SE SE SE SE	3 4 2 4 4	z z z bc c	70 69 63 76 71	85 85 85 75 75	5 5 6 8 8	1 - - 2 -	2.3 Tr 0 4.6 7.8	4000 - - 3000 400	1013.6 1014.0 1016.2 1013.1 1012.5	-10 -10 0 -4 -4	E E ESE SE SE	3 3 4 3 4	z z z z b	64 64 62 68 67	85 85 85 92 85	5 5 6 6 7	- - - 4 -	4 - - 2.3 0	Tr 2.3 0 4.6 1	- 2500 - 4000 -	0 0 0 0 0	0 2 4 0 0	bfc bfc bfc bfc bfc	bfc bfc bfc bfc bfc	bfc bfc bfc bfc bfc	bfc bfc bfc bfc bfc					
3	Birmingham Upper Heyford	1012.1 1013.0	-16 -10	SE S	3 2	c z	70 72	65 75	8 6	2 1	7.8 4.6	7.8 4.6	2500 2000	1011.1 1011.4	-6 -2	SE SE	2 2	c bc	68 68	75 75	8 8	1 -	6 9	4.6 0	10 4.6	2500 -	0 1	0 0	fbc fbc	bfc bez	bfc bfc	bfc bfc			
4	Rose-on-Wye ...	1011.7	-12	SE	3	c	67	85	7	5	7.8	9.4	1500	1010.1	-8	S	2	c	67	85	7	8	7	2	4.6	9	4000	0	0	bfc	bfc	bfc	bfc		
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Scoil (St. Mary's) Guernsey ...	1008.8 1012.3 1012.4 1012.4 1010.0 1008.4 1006.9	-6 -8 -14 -14 -14 -10 -10	SE S E E SE SE SE	3 4 3 3 4 5 3	c/r c c c c/r c/r c/r	62 67 62 62 63 59 58	92 75 85 85 85 97 97	8 7 7 7 8 6 7	7 5 5 4 5 5 8	7 - 5 8 1 - -	2.3 4.6 4.6 10 9.4 10 4.6	1000 1000 4000 4000 3000 1000 800	1007.7 1010.5 1010.0 1010.9 1008.7 1007.7 1006.6	-8 0 -8 -3 -10 -4 0	S SE E SE SE SE SW	4 3 4 3 2 2 3	c c c z r c	62 67 61 61 59 57 58	92 85 92 92 97 97 92	7 8 7 8 7 5 8	6 7 2 7 2 - -	7.8 2.3 7.8 10 9 10 4.6	1000 2000 2500 1400 800 800 800	0 1 0 1 1 1 1	4 0 4 3 3 3 3	c/r c/r c/r c/r c/r c/r c/r	c/r c/r c/r c/r c/r c/r c/r	c/r c/r c/r c/r c/r c/r c/r	c/r c/r c/r c/r c/r c/r c/r					
6	Pembroke	1008.2	-2	SE	6	ir	60	97	5	8	7.8	10	1000	1007.2	-4	SE	6	ir	61	97	6	8	1	-	7.8	10	1000	1	4	c/r	c/r	c/r	c/r		
7	Holyhead (Valley)	1008.2	-2	SE	6	pr	64	85	9	8	-	9.4	9.4	2500	1008.2	+2	SE	3	ir	61	97	4	5	-	10	10	800	1	3	c/r	c/r	c/r	c/r		
8	Chester (Sealand)	1010.2	-18	SE	4	z	71	65	6	5	-	9.4	9.4	1000	1009.3	-2	SE	2	z	69	75	6	5	7	-	2.3	7.8	5000	0	0	c/r	c/r	c/r	c/r	
9	Manchester	1012.9	-14	SE	4	c	73	65	7	1	3	1	2.3	7.8	2800	1010.4	-4	ESE	2	z	69	75	6	2	9	6	Tr	7.8	3000	0	0	bfc	bfc	bfc	bfc
10	Spurn Head Catterick Tynemouth	1015.4 1013.4 1015.0	-12 -18 -12	SE SE SE	3 3 3	bf z f	60 67 56	97 85 97	3 5 2	- 5 1	- 8 -	0 4.6 4.6	0 600 300	1013.3 1011.9 1013.2	-8 -2 -8	SE SE SE	5 3 5	z z z	61 68 58	92 85 92	6 5 4	5 8 8	3 - -	4.6 4.6 2.3	7.8 1500 2500	0 1 0	4 1 3	f f f	c/r c/r c/r	c/r c/r c/r	c/r c/r c/r	c/r c/r c/r			
11	St. Abbs Head Leuchars	1012.9 1012.4	+4 -8	S SE	4 3	F z	55 67	97 75	1 6	- -	- 6	0 0	0 7.8	1011.3 1011.7	0 -4	S NE	5 1	ir z	57 58	97 97	5 5	5 7	2 7	- 4.6	9.4 500	1 1	3 1	c/r c/r	c/r c/r	c/r c/r	c/r c/r				
12	Renfrew (Abbots L.) Eskdalemuir Point of Ayre	1009.8 1010.8 1009.1	-14 -2 -10	SE SE SE	4 4 5	c c c	69 67 63	65 75 92	7 7 6	7 7 6	7 7 3	4.6 2.3 4.6	2000 4000 2500	1009.6 1010.2 1008.9	+2 0 0	SE S SW	2 0 2	z c c	67 64 62	75 85 92	6 6 8	5 7 8	7 7 6	4.6 1 4.6	9.4 4000 3000	0 0 0	0 0 3	c/r c/r c/r	c/r c/r c/r	c/r c/r c/r	c/r c/r c/r				
13a	Tiree	1008.0	-8	SE	3	DD	58	97	5	-	2	10	10	500	1007.1	+4	S	3	o	58	97	6	-	2	-	10	10	700	1	4	c/r	c/r	c/r	c/r	
13b	Stornoway	1010.7	-16	SE	4	o	56	92	7	5	2	9	10	1500	1009.5	-2	SE	5	z	58	85	5	5	2	-	9	10	1200	0	1	c/r	c/r	c/r	c/r	
14	Dalwhinnie	1010.7	-2	SE	4	c	60	85	7	8	-	4.6	7.8	2500	1009.5	-2	SE	5	z	59	92	5	5	4	-	7.8	9.4	1500	0	0	c/r	c/r	c/r	c/r	
15	Aberdeen	1014.7	-2	S	4	f	56	97	2	-	-	10	10	4150	1013.8	-4	SE	4	z	58	97	4	5	-	-	10	10	3100	1	3	c/r	c/r	c/r	c/r	
16	Wick	1013.2	-2	SE	3	f	56	97	2	-	-	10	10	4150	1012.8	+2	SE	4	F	56	97	1	-	-	-	10	10	4150	1	0	c/r	c/r	c/r	c/r	
17	Sumburgh	1016.7	0	SE	6	f	55	97	3	5	-	10	10	100	1015.8	-2	SE	5	f	55	97	3	-	-	-	10	10	4150	1	0	c/r	c/r	c/r	c/r	
18	Blackod Point	1003.7	-8	SE	4	c	59	92	8	2	4	-	2.3	7.8	4000	1002.8	-4	SE	4	ir	59	85	8	6	-	10	10	2500	1	4	c/r	c/r	c/r	c/r	
19	Malin Head	1006.3	-12	SE	1	c	59	92	7	6	2	-	2.3	9.4	1500	1005.7	0	S	1	c	59	92	8	5	-	9	9	4000	0	2	c/r	c/r	c/r	c/r	
20	Aldergrove	1006.9	-10	SE	2	ir	59	97	6	6	2	-	9.4	10	400	1007.2	+2	SE	3	ir	59	92	7	5	2	-	7.8	10	1000	1	0	c/r	c/r	c/r	c/r
21	Birr Castle	1003.1	-10	S	1	c	62	75	8	8	1	-	7.8	10	1500	1004.6	0	S	1	c	60	85	8	3	1	-	2.3	10	1500	1	0	c/r	c/r	c/r	c/r
22	Valentia Obey	1002.7	-4	SSW	3	ir	56	97	7	5	-	10	10	1500	1004.2	+10	SW	2	c	56	92	9	2	4	-	7.8	9.4	2500	1	2	c/r	c/r	c/r	c/r	
23	Roches Point	1004.6	-10	S	4	rr	60	97	6	6	2	-	7.8	10	800	1004.5	+8	SSW	4	rr	57	92	8	6	2	-	7.8	9.4	1500	1	5	c/r	c/r	c/r	c/r

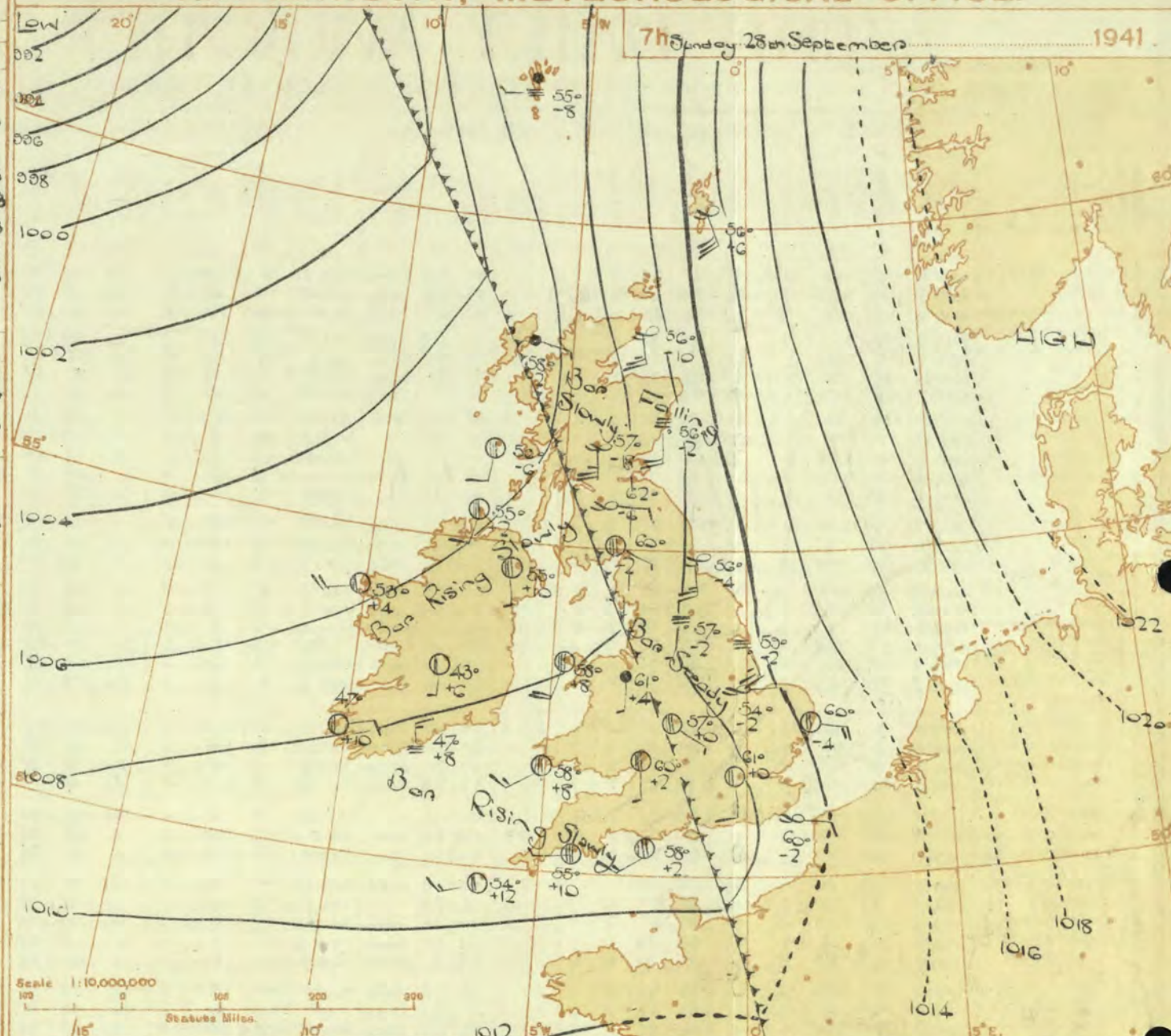


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T.	17h. G.M.T.	18h. G.M.T.	01h. G.M.T.	07h. G.M.T.
III. C <sub>1</sub> wwVhN DDFWN	C <sub>1</sub> wwVhN DDFWN	C <sub>1</sub> wwVhN DDFWN	C <sub>1</sub> wwVhN DDFWN	C <sub>1</sub> wwVhN DDFWN
109	-- 48309 45629	-- 48309 46549	5- 05535 44648	57 05525 25627
115	52 62725 14368	57 02834 14466	57 02844 16326	57 02744 16426
205			5- 03838 12288	5- 05838 12128
206	57 02855 08268	77 02864 12225	5- 05653 12123	57 05644 08428
210	57 02864 46527	57 05653 09226	5- 05664 08324	57 05655 45528
220	52 63626 15268			52 64616 19368
230	57 63746 14168	62 62647 14168	6- 65648 14168	57 61746 16268
245	-- 48309 47469	5- 08438 10348	5- 05534 18264	5- 22538 12468
260	84 01863 15415	57 02764 14327	50 05655 04315	83 05654 11325
278	5- 63518 13468	5- 61603 10368	5- 22646 10266	57 02841 17268
279	17 05662 48526	07 05550 14325	50 05562 06212	57 25654 12187
285	23 42535 14547	23 05535 14527		
288	10 15313 13173	20 056-1 11303	57 05543 18317	24 25453 32127
276	57 25746 14188	27 02841 12228	57 22745 12368	5- 02866 15266
301	2- 05644 15524	07 05630 14526	2- 25646 13386	52 62445 14268
321	2- 01754 14424	26 01763 12313	53 05554 13314	57 05672 12214
299	50 05552 16242	57 05553 10413	00 05550 10400	57 05554 10315
292	8- 05646 12446	80 05643 10324	5- 05574 10214	00 05550 09265
310				
914	8- 056-5 45345	44 05552 12213		43 05556 08127
333	82 02964 14318	67 63644 16368	5- 22648 10368	21 61744 18267
334	-- 01763 18314	-- 02654 16315		
340	90 02645 14427	47 05663 15325	5- 08454 12314	5- 22448 13368
136	10 0175 12444	08 05630 12313	04 05630 11311	08 05550 11314
336	14 01762 16514	13 02762 16316		
350	20 05664 14414	07 05630 10312	5- 05564 08314	54 05664 10217
365	50 02745 10327			57 62743 24268
374	20 05644 14544	40 02754 14426	50 05652 12312	
390	20 01864 13114	53 05662 10314	00 05550 10240	26 08452 12114
382	20 01755 15425	06 01750 12114	00 05630 12300	53 05662 08114
438	00 00690 12300			
430	50 05663 12313		50 05652 26312	
400	5- 62628 14508	52 64617 17468	07 22630 15267	53 00841 16213

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C, C<sub>1</sub> = Form of low and medium cloud—See page 1.  
V = Visibility. F = Force of wind—See page 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 September, 1941.
1 S.E. England	Moderate southerly wind, veering W.S.W. later. Becoming cloudy with local thundery rain or thunderstorms. Fair with bright intervals later.
2 E. England ...	Rather warm.
3 E. Midlands ...	
4 W. Midlands ...	Light or moderate W.S.W. wind. Mainly fair, but a few scattered showers or thunderstorms. Local valley fog around dawn. Average temperature or rather warm.
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Moderate S. wind veering S.W. Cloudy with some thundery rain or thunderstorms. Bright intervals later. Average temperature.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light or moderate S.W. wind. Fair apart from a few scattered showers. Average temperature.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Strong southerly wind, veering S.W. later and moderating. Cloudy with rain spreading from west. Bright intervals later. Average temperature.
15 N.E. Scotland	
16 Orkneys and Shetlands	
17 N.W. Ireland	Light or moderate S.W. wind backing and freshening later. Fair at first apart from scattered showers. Rain spreading from west late in period. Average temperature.
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  
 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 trough of low pressure is moving slowly eastwards across Great Britain. Thundery rain will occur during the passage of this trough, but weather will become mainly fair behind it. A trough now well out on the Atlantic will cause rain in Ireland towards the end of the period.

FURTHER OUTLOOK.

Unsettled with rain at times in most districts.

Forecasts 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. 9209/4120. W. 9.76. 6. 8054. 6p 348 3300 8/41.

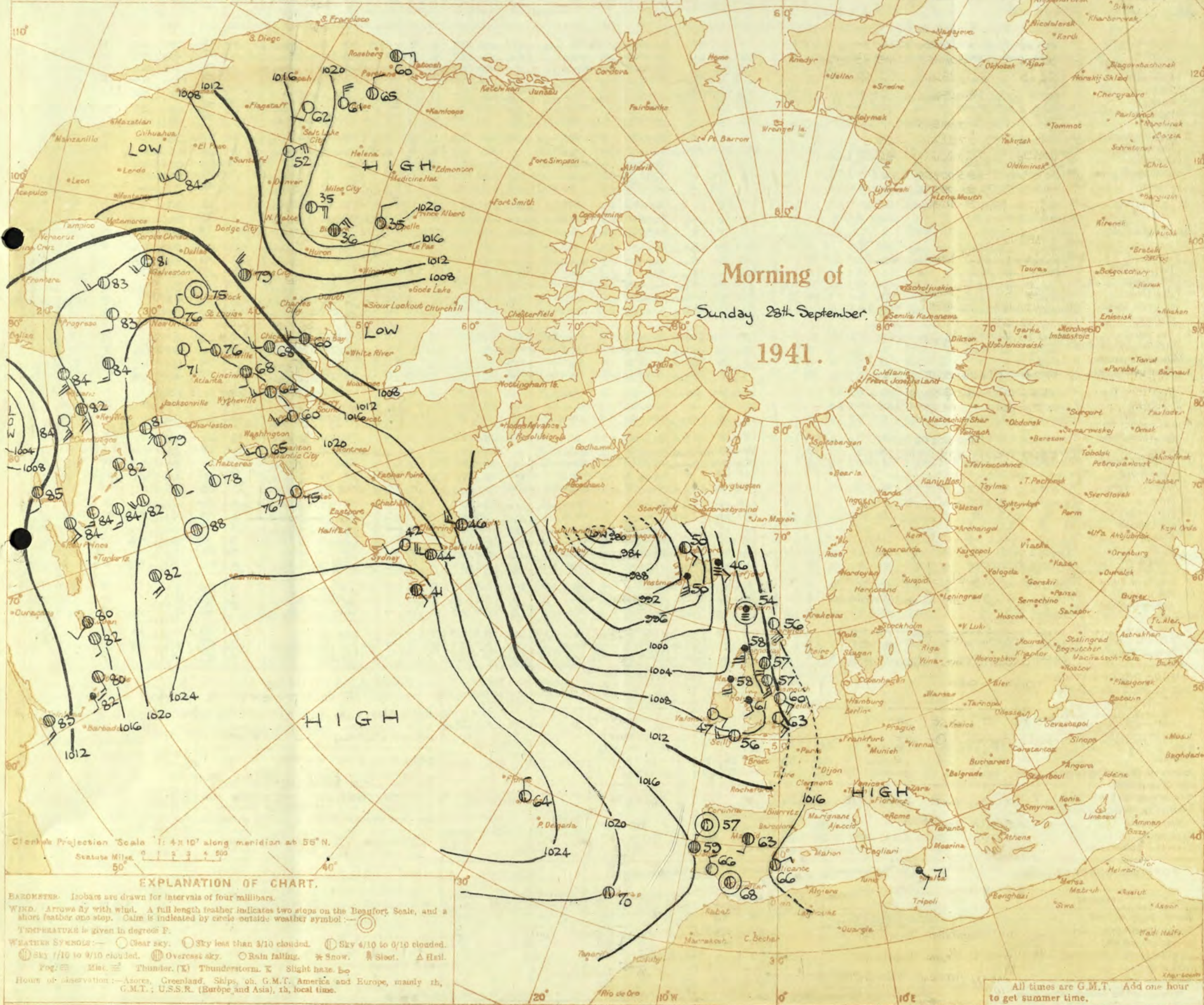


# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

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

Morning of  
 Sunday 28th September.  
 1941.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 28th September.....1941:

No. 29165

OBSERVATIONS at 1 hr. G.M.T. 28th September.....															OBSERVATIONS at 7 hr. G.M.T. 28th September.....															PAST 24 HOURS.										
District.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. (6)	Humid. (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. (20)	Humid. (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUR-RAIN (36)				
					Direc.	Force.					Form.	Amount.	Height of Base. (feet)	Direc.	Force.			Form.	Amount.					Height of Base. (feet)	Low.	Med.	High.	Low.			Total.	Low.	Med.	High.	Max. Day 7h-18h °F.		Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.
1	London (Kew) ...	18		*	*	*	*	*	*	*	*	*	*	1009.7	0	S	1	0	60	92	6	8	3	1	9	9+	2500	0	*	75	58	47	Tr	-	8.1					
	Croydon ...	217	1010.4	-1	SE	3	60	85	7	-	-	-	-	1009.6	+0	SE	2	0	61	92	6	8	4	5	2-3	4+	2500	0	*	77	59	55	-	Tr	8.5					
	S. Farnborough ...	226	1009.8	-1	SE	2	60	85	7	-	-	-	-	1009.7	+0	SE	2	0	59	97	6	8	4	5	7-8	3+	2000	0	*	75	56	50	-	-	7.0					
	Boscombe Down ...	417	1010.0	-1	SE	2	60	97	7	5	-	-	2-3	2-3	1010.0	+0	SE	2	0	58	97	7	5	7	-	2-3	10	1000	1	*	72	56	54	Tr	10	8.5				
	Thorney Island ...	10	1009.6	-1	SE	2	64	85	6	4	-	-	4-6	4-6	1009.2	+0	SE	1	0	61	97	6	5	7	-	10	10	2500	1	*	72	59	56	-	3	8.4				
	Lympe ...	346	1012.5	-1	SE	2	63	85	6	-	-	-	0	0	1011.7	-2	SE	2	0	60	85	6	5	4	2	1	7-8	4000	0	3	74	53	53	-	-	8.7				
	Manston ...	154	1011.7	-1	SE	2	62	75	6	-	-	-	0	0	1010.4	-2	SE	2	0	59	97	6	2	3	4	Tr	4-6	4000	0	*	74	58	56	-	-	8.6				
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	1010.8	-4	SE	2	0	61	85	5	5	5	2	2-3	4-6	4000	0	*	71	59	54	-	-	8.8					
	Felixstowe ...	15	1012.5	-6	SE	4	64	85	5	5	-	-	2-3	2-3	1011.1	-10	SE	4	0	61	85	5	1	3	-	4-6	7-8	4500	0	3	69	60	58	-	-	7.5				
	Gorleston ...	5	1014.2	-6	SE	5	62	85	6	-	-	-	0	0	1012.6	-4	SE	4	0	60	92	6	-	3	-	0	4-6	-	0	4	65	60	56	-	-	7.5				
	Mildenhall ...	19	1011.7	-8	SE	2	62	92	6	-	4	-	4-6	4-6	1010.2	-4	SE	3	0	59	97	6	2	4	-	2-3	2500	0	*	77	58	52	-	-	8.5					
	Crantwell ...	240	1011.6	-8	SE	3	59	92	5	-	7	-	0	7-8	1010.7	-2	SE	2	0	59	97	6	2	3	1	1	2-3	2500	0	*	74	53	48	-	-	5.2				
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	1009.6	0	SE	1	0	57	97	5	5	-	-	3	3	1500	0	*	73	57	52	-	-	5.3					
	Upper Heyford ...	408	010.3	-4	E	2	60	85	6	-	-	-	0	0	1009.1	+2	SE	1	0	56	97	4	8	3	1	4-6	4-6	4000	1	*	75	56	53	-	-	-				
4	Boss-on-Wye ...	223												1009.1	+2	SE	1	0	60	97	7	6	7	-	Tr	10	1500	1	*	70	59	57	-	5	1.5					
5	Bartland Point ...	299	1008.0	+2	WSW	4	58	85	7	5	7	-	4-6	9+	1500	1009.1	+8	SE	4	0	57	92	8	8	7	-	4-6	3	2200	1	3	65	56	54	6	1	0.1			
	Bristol ...	209	1009.3	+2	SSW	2	61	97	6	8	-	-	3	3+	1800	1009.7	+2	SW	2	0	58	97	7	5	7	-	7-8	10	6000	1	*	70	58	55	-	12	1.4			
	Portland Bill ...	32	1009.1	-4	SW	2	61	92	7	5	-	-	10	10	1500	1009.2	+2	SW	3	0	58	92	7	8	-	-	10	10	2500	1	4	62	56	-	6	0.0				
	Plymouth ...	82	1009.5	+2	SSW	1	58	97	6	5	-	-	3+	3+	1500	1010.4	+10	SW	1	0	55	97	8	7	3	8	2-3	7-8	1500	1	1	63	56	50	6	1	0.0			
	The Lizard ...	240	1008.8	0	WSW	3	59	97	7	8	2	-	7-8	3+	1500	1010.4	+10	SW	2	0	54	92	8	6	-	4-6	4-6	1500	1	3	60	53	-	8	0.6	0.0				
	Seilly (St. Mary's) ...	163	1008.1	+2	WSW	3	56	92	8	8	4	-	2-3	4-6	1500	1009.6	+12	WSW	3	0	54	85	8	8	4	3	4-6	4-6	1200	1	4	60	53	-	4	-	0.0			
	Guernsey ...	175																																						
6	Pembroke ...	142	1007.7	-2	SW	4	58	92	7	8	-	-	7-8	7-8	2000	1009.5	+8	SW	3	0	58	85	8	2	4	-	4-6	7-8	2500	1	3	62	57	-	14	2	0.0			
7	Holyhead (Valley) ...	26	1007.2	-10	SE	2	61	97	6	5	-	-	3+	3+	1000	1008.0	+8	SW	4	0	58	97	8	5	3	-	7-8	3+	2000	1	3	70	57	56	7	2	*			
	Chester (Sealand) ...	16	1008.4	-3	3	2	61	92	4	5	-	-	3	3	2300	1008.2	+4	SE	1	0	61	92	5	5	-	-	10	10	1800	1	*	74	61	52	-	1	1.6			
8	Manchester ...	70	1009.3	-12	ESE	3	65	86	6	5	-	-	1	1	3000	1009.0	+4	E	1	0	61	85	5	8	3	-	4-6	7-8	3000	0	*	75	61	58	-	-	7.9			
10	Spurn Head ...	29	1012.7	-8	SE	4	60	92	5	5	-	-	4-6	4-6	4000	1011.1	-2	SE	5	3	59	92	4	8	6	-	7-8	7-8	2500	1	4	62	59	-	-	-	5.1			
	Catterick ...	175	1011.9	-6	S	1	58	97	4	-	-	-	0	0	-	1010.6	-2	SSW	1	0	57	97	+	-	6	2	0	3	-	1	*	72	57	50	2	0.4	1.3			
	Tynemouth ...	108	1012.8	-2	SE	5	57	92	6	5	-	-	3	3	1500	1011.6	-4	SE	5	0	56	92	5	8	3	-	7-8	3	2600	1	4	60	56	53	-	0.3	-			
11	St. Abbs Head ...	280	1011.0	-4	SE	4	55	97	5	4	4	-	Tr	1	1500	1009.7	-4	S	4	0	55	92	4	5	-	-	10	10	800	1	3	61	54	-	Tr	1	0.1			
	Leuchars ...	36	1010.8	-10	E	2	58	92	3	5	-	-	4-6	4-6	6000	1008.8	-10	ESE	2	0	57	92	4	5	7	-	3+	10	700	1	*	67	56	5+	1	9	3.7			
12	Renfrew (Abbots I.) ...	19	1009.1	-4	ESE	1	63	92	5	5	-	-	7-8	7-8	3000	1007.2	-6	ESE	3	0	62	92	5	5	7	-	4-6	10	2000	1	*	71	58	52	2	5	1.8			
	Eskdalemuir ...	794																																						
	Point of Ayre ...	30	1008.2	-4	SE	3	61	97	7	6	2	-	7-8	10	1000	1007.4	+2	SWW	1	0	59	97	8	8	2	-	7-8	10	3000	1	2	65	58	51	0.2	4	1.0			
13A	Tiree ...	22	1007.6	-6	SE	4	57	97	7	5	2	-	10	10	1200	1005.5	-6	SW	1	0	56	97	7	5	-	-	3	10	1500	1	4	58	56	-	7	5	0.0			
13B	Stornoway ...	80	*	12	3	5	58	85	5	5	2	-	3	10	1200	*	-2	SE	1	0	58	85	5	5	2	-	3	10	1200	0	2	58	51	-	13	3	0.0			
16	Dalwhinnie ...	1176																																						
	Aberdeen ...	79																																						
	Wick ...	119	1012.2	-2	S	4	56	97	5	5	-	-	10	10	1000	1009.5	-10	SE	5	0	56	97	6	5	-	-	10	10	800	1	*	58	56	54	-	-	0.1			
16	Sumburgh ...	30	1015.6	-2	SE	6	58	92	5	5	-	-	4-6	4-6	3000	1014.0	-6	SE	6	0	56	97	6	5	3	-	4-6	7-8	3500	1	*	56	54	53	0.6	-	0.0			
17	Blackad Point ...	18	1004.4	+6	S	3	54	92	8	4	-	2	4-6	4-6	2500	1005.0	+4	WSW	4	0	53	92	8	-	6	-	0	4-6	-	1	3	62	51	-	Tr	2	*			
18	Main Head ...	84	0052	-6	SE	4	58	86	6	6	-	-	3+	3+	800	1005.1	+2	SW	2	0	55	92	8	2	3	-	4-6	7-8	2500	1	2	62	53	-	0.1	1	0.0			
	Aldergrove ...	268	1006.3	-4	S	1	59	97	6	6	2	-	3	10	200	1007.1	+10	SE	1	0	55	92	8	5	7	-	4-6	10	1400	1	*	60	54	52	8	8	0.0			
19	Birr Castle ...	173	1005.7	+2	SSW	1	48	97	8	2	-	-	0	0	-	1007.4	+6	S	1	0	43	97	8	-	4	-	0	2-3	-	1	3	63	42	38	Tr	1	0.1			
20	Valentia Obay. ...	30	1006.6	+6	WSE	2	47	97	9	2	-	-	1	1	2500	1008.3	+10	SE	2	0	47	97	9	2	7	4	1	2-3	2500	1	3	62	46	39	7	1	1.0			
	Roches Point ...	22	1006.8	+6	WSW	3	53	92	8	5	-	-	1	1	2500	1008.3	+10	SE	3	0	47	97	2	5	-	-	10	10	<150	1	4	62	47	-	7	0.2	-			

[illegible]

\*Pressure at 1,600 dynamic metres level.

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

† Sea disturbance reported from Dungeness

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

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

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



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

Monday 29th September 1941.

No. 29166

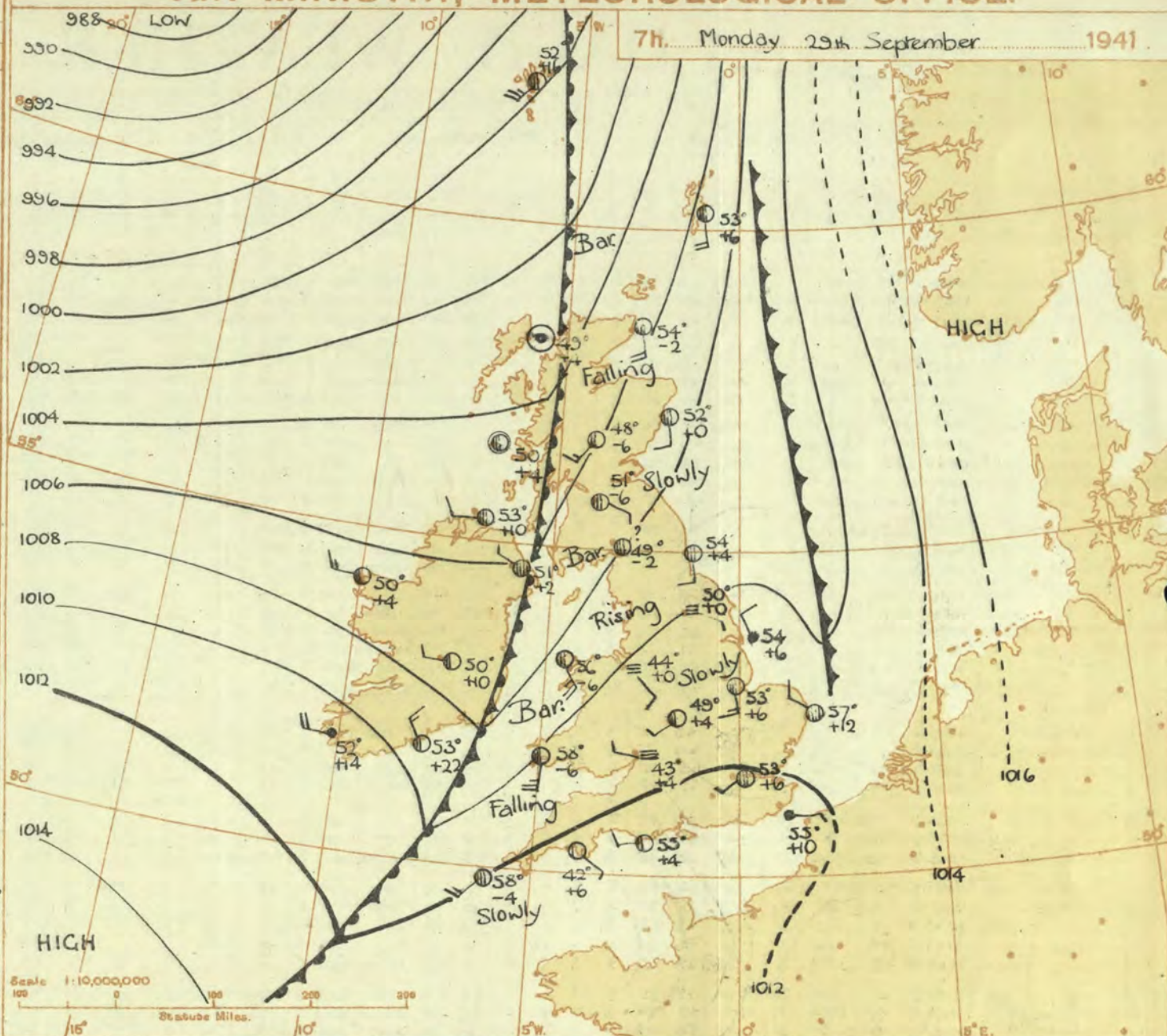
OBSERVATIONS at 13h. G.M.T. 28th September														OBSERVATIONS at 18h. G.M.T. 28th September														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.				State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.								
				Dir.	Force. 0-12 (4)					Form.	Amount. 0-10 (12)	Height of Base. (feet) (14)	Dir.			Force. 0-12 (18)	Form.					Amount. 0-10 (25)	Height of Base (feet) (28)	7h.—18h. 28th (37)	13h.—18h. 28th (38)			18h.—to 29th (39)	1h.—7h. 29th (40)							
1	London (Kew)...	1009.5	+2	W	1	ir	63	92	5	2	-	7-8	10	2500	1010.2	+8	WN	1	ir	61	85	6	5	-	10	10	2500	1	*	bc	ir	cm	ir	cm		
	Croydon ...	1009.4	+2	SSW	1	c/pr	65	92	6	9	7	-	7-8	10	1600	1009.8	+6	WSW	2	ir	61	85	6	5	7	-	4-6	10	1900	1	*	bc	ir	cm	ir	cm
	S. Farnborough	1009.4	-2	WNW	3	c	66	75	7	7	3	-	7-8	9	2000	1010.4	+16	WNW	2	ir	62	97	6	-	2	-	0	10	-	1	*	mo	ir	cm	ir	cm
	Boscombe Down	1009.5	+4	W	2	c	62	75	7	8	7	-	7-8	9	1600	1010.7	+2	NW	1	cjp	59	85	4	7	-	2-3	9	1500	1	*	ir	ir	cm	ir	cm	
	Thorney Island	1009.8	0	W	3	c	66	75	7	7	3	-	7-8	10	2500	1010.3	+6	WN	1	ir	61	92	7	5	7	-	4-6	10	1500	1	*	ir	ir	cm	ir	cm
	Lymington	1011.0	0	SE	2	ir	67	85	6	1	7	1	1	2-3	2500	1010.7	-2	-	0	60	97	4	5	9	-	Tr	9	2100	0	2	bc	ir	cm	ir	cm	
	Manston	1009.5	-6	S	2	ir	71	65	6	-	3	9	0	4-6	-	1009.6	+2	-	0	63	97	6	5	3	-	4-6	9	2800	0	*	bc	ir	cm	ir	cm	
2	Shoeburyness ...	1010.1	-8	SSW	3	c	70	75	6	8	3	-	4-6	7-8	4000	1010.0	+2	SE	1	c	65	85	6	5	7	-	7-8	9	2500	0	*	bc	ir	cm	ir	cm
	Felixstowe ...	1009.6	-10	SE	3	ir	68	75	5	-	4	2	0	4-6	-	1009.3	0	SE	2	ir	63	92	5	-	7	-	0	9	-	0	2	bc	ir	cm	ir	cm
	Gorleston ...	1011.8	-6	SE	3	ir	63	85	5	-	4	-	0	Tr	-	1010.7	0	SE	2	ir	62	92	5	5	3	-	4-6	7-8	1500	0	4	bc	ir	cm	ir	cm
	Mildenhall ...	1008.3	-10	SE	4	ir	75	65	6	5	3	2	2-3	4-6	5700	1009.2	+4	WS	2	ir	65	97	5	5	-	9	9	2600	0	*	bc	ir	cm	ir	cm	
	Cranwell ...	1008.6	-12	SE	3	ir	69	75	6	5	7	-	7-8	9	6000	1008.9	+6	W	3	ir	60	92	5	5	-	10	10	2500	1	*	bc	ir	cm	ir	cm	
3	Birmingham	1009.6	0	W	1	ir	58	92	5	8	-	-	10	10	800	1009.9	+2	-	0	58	92	6	8	7	-	1	9	1500	1	*	ir	ir	cm	ir	cm	
	Upper Heyford	1009.2	+4	SW	2	c	61	85	8	5	7	-	4-6	10	3500	1009.6	+4	SW	1	c	59	92	8	5	7	-	9	9	3000	1	*	ir	ir	cm	ir	cm
4	Ross-on-Wye ...	1009.4	0	SW	2	c	62	75	8	9	3	-	2-3	9	2500	1009.6	0	SW	3	c	59	75	8	9	7	-	4-6	7-8	2500	1	*	ir	ir	cm	ir	cm
5	Hartland Point	1010.0	+2	W	4	bc	58	75	9	2	4	5	2-3	4-6	2500	1010.8	+6	W	4	bc	57	85	9	2	4	-	2-3	4-6	2500	0	3	bc	ir	cm	ir	cm
	Bristol ...	1010.6	0	W	3	c	61	85	8	7	3	1	2-3	9	2500	1010.9	+12	W	3	c	58	85	8	-	3	-	0	9	-	1	*	ir	ir	cm	ir	cm
	Portland Bill ...	1010.6	+6	W	2	c	60	92	8	2	4	-	4-6	9	4000	1010.8	+8	W	3	c	59	92	8	5	-	10	10	2500	1	4	bc	ir	cm	ir	cm	
	Plymouth ...	1011.2	+2	W	3	c	61	75	8	2	3	-	1	7-8	2000	1011.8	+6	W	3	c	58	75	8	2	3	-	4-6	7-8	3500	0	3	bc	ir	cm	ir	cm
	The Lizard ...	1011.0	+4	W	3	bc	61	75	8	7	6	-	2-3	4-6	2500	1012.7	+8	W	3	bc	56	85	8	2	9	-	4-6	4-6	2500	0	3	bc	ir	cm	ir	cm
	Scilly (St. Mary's)	1011.1	+8	WNW	3	bc	64	65	8	8	4	3	2-3	4-6	1200	1012.1	+6	WN	2	c	59	75	8	8	6	3	2-3	7-8	1200	1	3	bc	ir	cm	ir	cm
	Guernsey ...	1011.1	+8	WNW	3	bc	64	65	8	8	4	3	2-3	4-6	1200	1012.1	+6	WN	2	c	59	75	8	8	6	3	2-3	7-8	1200	1	3	bc	ir	cm	ir	cm
6	Pembroke ...	1010.1	+2	SW	3	c	60	75	8	2	4	2	2-3	7-8	2500	1010.3	0	SW	3	bc	63	85	8	2	4	5	4-6	4-6	2500	1	3	bc	ir	cm	ir	cm
7	Holyhead (Valley)	1008.4	0	W	3	c	60	75	9	8	5	3	1	9	1000	1008.6	+2	SW	3	c	58	85	9	1	5	1	Tr	9	3000	1	2	bc	ir	cm	ir	cm
	Chester (Sealand)	1008.7	+2	WN	1	c	60	92	6	5	7	-	7-8	10	1600	1009.3	+6	-	0	58	92	6	5	1	-	7-8	9	2000	1	*	ir	ir	cm	ir	cm	
8	Manchester ...	1009.1	+2	WN	1	c	59	92	5	5	-	-	7-8	10	2000	1009.8	+6	-	0	58	92	6	8	3	-	7-8	9	4000	1	*	ir	ir	cm	ir	cm	
10	Spurn Head ...	1009.3	-12	SE	4	ir	60	92	5	-	6	-	0	4-6	-	1008.8	0	SE	3	cjp	61	92	5	-	2	-	10	10	4000	1	2	bc	ir	cm	ir	cm
	Catterick ...	1008.1	-20	S	2	ir	65	85	4	5	2	-	7-8	10	900	1008.7	+6	WNW	2	c	58	85	7	5	-	-	9	9	2500	1	*	bc	ir	cm	ir	cm
	Tynemouth ...	1009.5	-10	SE	5	ir	58	85	5	8	-	-	7-8	7-8	2800	1008.8	+4	WNW	2	ir	58	92	6	-	2	-	10	10	1200	1	3	bc	ir	cm	ir	cm
11	St. Abbs Head	1007.5	-6	SE	5	ir	56	92	5	5	-	-	10	10	800	1007.6	+2	WN	2	ir	55	92	7	5	2	-	7-8	10	1000	1	3	bc	ir	cm	ir	cm
	Leuchars ...	1007.4	-14	SE	5	ir	58	92	5	5	-	-	10	10	1200	1007.0	0	ir	0	56	97	6	6	2	-	2-3	10	1800	2	*	ir	ir	cm	ir	cm	
12	Renfrew (Abbots L.)	1008.0	0	SW	2	ir	58	92	6	6	2	-	7-8	10	800	1007.5	+2	SW	2	ir	56	85	6	8	7	-	4-6	7-8	1500	1	*	ir	ir	cm	ir	cm
	Eskdalemuir ...	1008.5	+4	SW	3	ir	56	85	5	-	2	-	10	10	450	1007.8	0	SW	3	ir	54	92	6	6	2	-	2-3	10	220	1	*	ir	ir	cm	ir	cm
	Point of Ayre ...	1008.4	+2	WN	2	ir	57	92	8	7	-	-	1	9	1500	1008.5	0	SW	1	c	55	85	8	2	3	-	Tr	9	1800	1	1	bc	ir	cm	ir	cm
13A	Three ...	1005.9	0	SW	3	bc	59	85	8	2	-	-	4-6	4-6	2100	1005.8	0	SW	3	bc	55	85	8	5	3	2	2-3	4-6	2500	0	4	bc	ir	cm	ir	cm
13B	Stornoway ...	1004.7	0	SSW	5	c	57	85	8	5	7	-	7-8	10	2000	1003.3	-4	S	5	55	85	8	5	3	7	5	4-6	9	3500	1	3	bc	ir	cm	ir	cm
15	Dalwhinnie ...	1007.1	-6	S	3	ir	56	92	7	5	-	-	10	10	1500	1006.4	-4	SSW	2	ir	53	92	7	5	2	-	4-6	10	1500	1	*	ir	ir	cm	ir	cm
	Aberdeen ...	1009.8	-10	SE	3	ir	56	92	6	5	-	-	10	10	900	1007.4	-12	SE	4	ir	56	92	5	5	-	-	10	10	800	1	3	bc	ir	cm	ir	cm
	Wick ...	1008.5	-10	SE	5	ir	56	97	6	5	-	-	10	10	500	1006.1	-6	SE	5	ir	56	97	5	5	-	-	10	10	400	1	*	ir	ir	cm	ir	cm
16	Sumburgh ...	1012.4	-6	SE	6	bc	57	85	7	5	-	-	Tr	4-6	1200	1009.8	-18	SE	6	ir	55	85	6	5	-	-	9	9	900	1	*	bc	ir	cm	ir	cm
17	Blacksd Point ...	1005.3	-4	SW	4	c	58	65	8	2	6	-	4-6	7-8	2500	1003.5	-14	S	6	c																



Abridged observations of additional stations in the AVIATION WEATHER CODE											
13h. G.M.T. 28th Sept. 18h. G.M.T.				01h. G.M.T. 29th Sept. 07h. G.M.T.							
III	C <sub>h</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>h</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>h</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>h</sub>	wwVhN <sub>h</sub>
109	5-	03538	45628	5-	03538	46228	5-	64528	18368	54	02774
115	52	81835	20488	52	62835	20388	52	02844	16266	52	81844
203	5-	81838	16468				53	02844	16425	6-	64838
206	57	02755	12528	57	62855	20168	5-	01854	20364	57	01963
210	57	61566	47568	57	62854	14268	5-	01776	00066	54	01862
220	83	01844	21415	83	01845	21405				80	01855
230	8-	81948	20268	87	02854	16126	50	00852	16212	5-	64648
245	5-	05628	14528	5-	64528	18368	5-	05628	18368	57	04683
260	5-	63544	22128	57	61855	12167	50	01753	20128	54	01763
275	57	22832	14268	53	02863	15226	04	00880	16211	5-	64528
279	57	62647	18368	87	02854	15367	04	01780	16114	20	01853
285										23	01634
288	03	05690	13314	57	22745	23268	52	62544	20168	57	02763
295	8-	02855	20215	45	01852	18214	5-	64548	14468	57	25644
301	52	62543	25168	57	22544	14168	50	05664	18224	00	05590
321	5-	05656	18218				52	62546	25168	53	05564
290	50	05553	10303	5-	64448	18368	5-	62648	25268	5-	62618
292	53	05554	13325	02	02748	23368	02	62888	00068	52	08457
310										--	47404
314	83	25559	18397	52	61664	24268				53	03458
333	23	02954	20326	13	02951	20215	10	01851	20213	54	08400
334										--	92654
340	5-	02947	26267	57	02965	00026	5-	01764	22114	07	04830
136	08	05670	11413	5-	05568	21218	62	60425	28368	02	62778
336										--	46105
350	5-	63548	18288	52	61647	26268				57	05573
368	23	01943	24385	27	02952	24327	40	00752	24282		
379	87	21857	20268	57	02774	22158	5-	22678	22268	03	02890
390	8-	81458	12118	57	05565	23267	5-	51548	28158	5-	67348
382	57	02866	23328	54	02866	00027	5-	64568	00068	57	04661
438	--	48309	22349								
430	87	02744	24227	57	64543	324168				57	05564
409	84	01943	20214	50	01053	25214	00	00880	14211	05	01890

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C, C<sub>h</sub> = Form of low and medium cloud—See page 4.  
 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 29th September
1 S.E. England	
2 E. England ...	
3 E. Midlands ...	Light southwest to west wind; fair to-day, a short period of rain to-night, probably fair again tomorrow: average temperature.
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	Light southwest to west wind; a short period of rain later to-day, then fair apart from local showers near the West Coast. Local morning fog; average temperature.
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.	Wind between south and west, light or moderate. Occasional rain or showers but bright intervals; average temperature.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	Moderate west wind; thundery showers, bright intervals: average temperature.
19 S. E. Ireland	
20 S. W. Ireland	

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—  
 Warm Front on the Surface  
 Warm Front above the ground  
 Cold Front on the surface  
 Cold Front above the ground  
 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 trough of low pressure is moving slowly east across the British Isles with a narrow belt of rain, and in its rear there will be bright intervals but local showers.

## FURTHER OUTLOOK.

Unsettled but bright intervals.

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

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

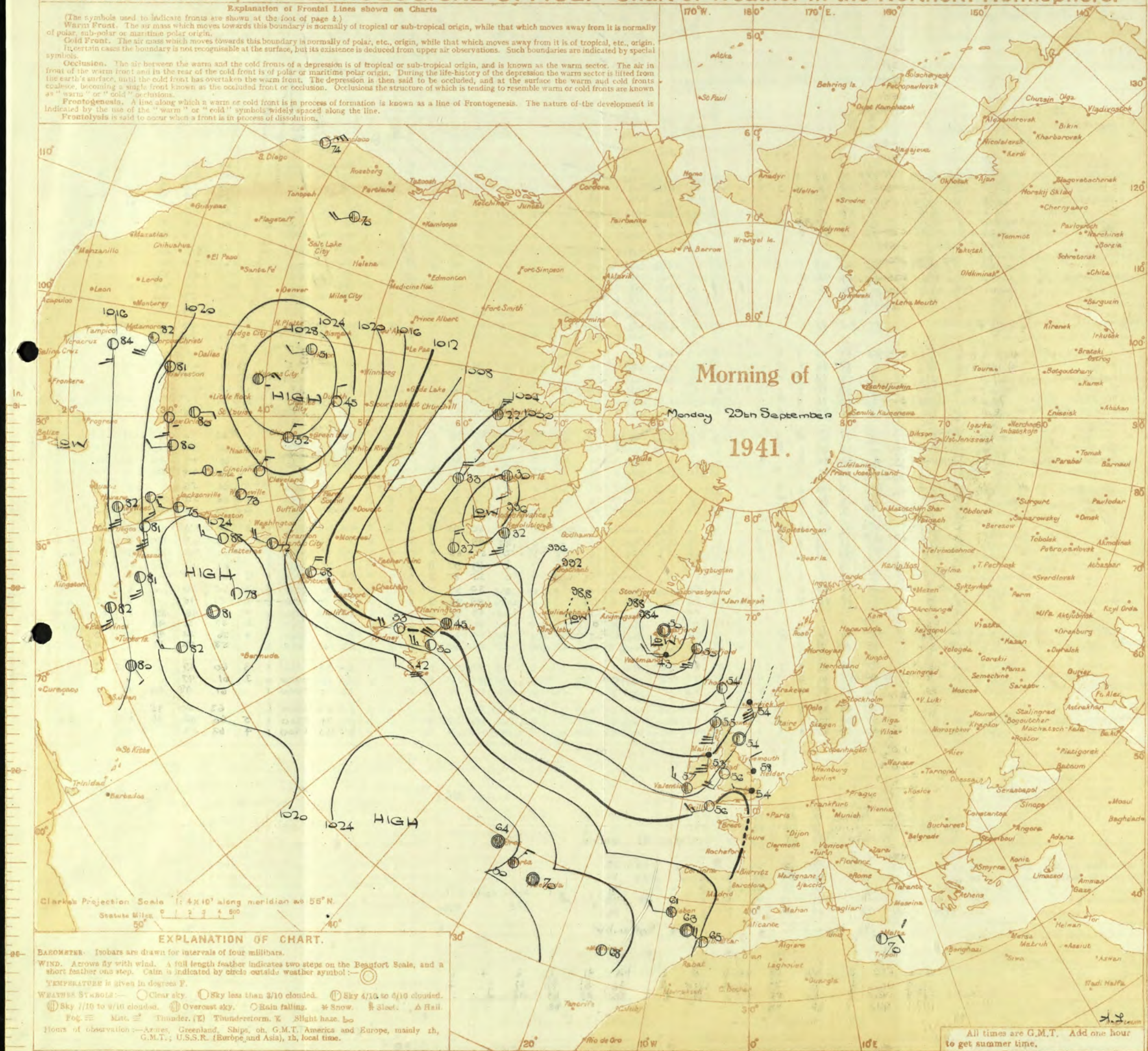
2202/4120, No. 8176, 5.5034, 62.300, 2700, 5/41



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

## Explanation of Frontal Lines shown on Charts

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





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Monday 29th September 1941.  
No. 29166

OBSERVATIONS at 1 hr. G.M.T. 29th September															OBSERVATIONS at 7 hr. G.M.T. 29th September													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)
					Direc.	Force. (4)					Low.	Med.	High.	Total (13)	Direc.			Force. (18)	Low.					Med.	High.	Total (27)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)			Min. on Ground °F. (33)	Day 7h-18h mm. (34)	Night 18h-7h mm. (35)				
																																		0-12	0-10	0-10	
1	London (Kew) ... 18	217	1011.3	+6	WNW	1	ir.	54	92	5	-	2	-	10	10	4000	1012.1	+12	SW	1	16	56	97	5	5	2	-	4.6	10	2500	1	66	55	51	1	7	2.0
	Croydon ... 217	1011.1	+4	-	-	0	ir.	55	92	6	5	2	-	10	10	4000	1012.0	+6	SW	1	20	53	97	6	5	7	-	2.3	9	5700	1	72	52	52	1	9	3.7
	S. Farnborough ... 226	1011.1	+4	-	-	0	ir.	55	92	6	5	2	-	10	10	4000	1012.0	+6	SW	1	20	53	97	6	5	7	-	2.3	9	5700	1	72	52	52	1	9	3.7
	Boscombe Down ... 417	1011.8	+2	WNW	1	0	c	53	92	7	7	7	-	9	9	7.8	1012.6	+6	W	1	20	54	97	6	5	7	-	4.6	9	7200	1	67	52	47	0.2	1	0.2
	Thorney Island ... 10	1011.3	+2	WNW	2	0	c	57	92	6	5	7	-	7.8	10	7200	1012.3	+6	W	1	20	54	97	6	5	7	-	4.6	9	7200	1	67	53	47	0.1	0.4	0.1
	Lymington ... 346	1011.4	0	WNW	1	0	c	59	97	5	5	10	-	9	9	1200	1012.8	+10	E	1	10	55	97	5	5	-	10	10	2000	0	70	54	53	-	0.3	7.5	
	Manston ... 154	1010.4	0	WNW	1	0	c	59	97	5	5	10	-	10	10	500	1011.9	+14	WNW	1	10	57	97	5	5	-	10	10	500	1	72	56	55	-	3	7.0	
2	Shoeburyness ... 11	1009.6	+2	SSW	2	0	z	62	97	5	5	-	-	9	9	2200	1012.2	+10	W	1	10	57	97	5	6	7	-	4.6	10	2500	1	72	56	52	-	2	6.5
	Felixstowe ... 15	1009.6	+2	SSW	2	0	z	62	97	5	5	-	-	9	9	2200	1012.2	+10	W	1	10	57	97	5	6	7	-	4.6	10	2500	1	72	56	52	-	2	6.5
	Gorleston ... 5	1010.4	0	SSE	1	0	z	61	92	5	5	-	-	10	10	1500	1011.3	+12	WNW	2	20	57	92	7	5	-	10	10	1500	0	63	57	56	-	4	0.2	
	Mildenhall ... 19	1010.0	+2	WNW	3	0	rr	56	92	5	5	-	-	10	10	1200	1011.7	+6	-	0	10	55	97	6	5	-	7.8	10	600	1	76	55	55	1	7	5.1	
	Cranwell ... 240	1010.0	-2	WNW	1	0	rr	56	92	4	5	-	-	10	10	800	1011.1	+6	S	3	10	55	97	6	5	7	-	7.8	9	1200	1	70	52	52	3	8	4.6
3	Birmingham ... 535	1010.4	+2	SW	1	0	rr	54	97	5	-	2	-	10	10	4500	1011.7	+4	SW	1	10	49	92	8	-	7	1	0	4.6	-	1	63	49	41	3	-	0.0
	Upper Heyford ... 408	1010.4	+2	SW	1	0	rr	54	97	5	-	2	-	10	10	4500	1011.7	+4	SW	1	10	49	92	8	-	7	1	0	4.6	-	1	63	49	41	3	-	0.0
	Ross-on-Wye ... 223	1010.4	+2	SW	1	0	rr	54	97	5	-	2	-	10	10	4500	1011.7	+4	SW	1	10	49	92	8	-	7	1	0	4.6	-	1	63	49	41	3	-	0.0
4	Hartland Point ... 299	1011.4	-2	W	3	bc	57	95	8	2	-	-	2.3	2.3	2500	1012.7	+6	W	1	10	44	97	7	1	4	1	1	1	1500	0	62	44	35	0.2	-	0.2	
	Bristol ... 209	1011.9	+2	SW	1	bc	58	92	7	5	-	-	10	10	2500	1012.5	+4	W	2	10	44	97	8	5	-	-	4.6	4.6	4000	1	61	53	35	-	-	0.2	
	Portland Bill ... 32	1011.8	+2	WNW	3	bc	58	92	7	5	-	-	10	10	2500	1012.5	+4	W	2	10	44	97	8	5	-	-	4.6	4.6	4000	1	61	53	35	-	-	0.2	
	Plymouth ... 82	1012.9	+2	W	1	bc	47	97	7	-	3	-	0	1	2500	1013.0	+6	SE	1	10	42	97	8	2	4	1	1	1	1500	0	63	41	41	-	-	8.8	
	The Lizard ... 240	1012.8	0	SWW	2	bc	54	92	8	4	-	1	2.3	2.3	2500	1012.2	0	WSW	3	10	46	92	8	4	-	-	4.6	4.6	2500	1	62	53	35	-	-	9.9	
	Scilly (St. Mary's) ... 163	1011.9	-6	SW	3	bc	56	85	8	5	-	-	1	1	1500	1010.9	-4	SW	3	10	58	85	8	5	7	-	7.8	9	1500	1	64	56	35	-	-	9.9	
	Guernsey ... 175	1011.9	-6	SW	3	bc	56	85	8	5	-	-	1	1	1500	1010.9	-4	SW	3	10	58	85	8	5	7	-	7.8	9	1500	1	64	56	35	-	-	9.9	
5	Pembroke ... 142	1010.9	0	SW	4	bc	58	95	8	1	-	-	2.3	2.3	3000	1009.2	-6	SW	5	10	56	85	8	8	4	-	4.6	7.8	2500	1	63	56	50	Tr	0.1	8.3	
	Holyhead (Valley) ... 26	1009.1	+2	SW	4	bc	56	85	8	5	-	-	1	1	4000	1007.4	-6	SSE	5	10	56	85	8	8	4	-	4.6	4.6	2500	0	63	54	50	Tr	-	0.2	
	Chester (Sealand) ... 16	1010.5	+4	WNW	1	m	53	85	4	4	-	4	0	4.6	-	1010.3	0	SE	2	10	44	92	2	-	4	5	0	2.3	-	1	61	44	40	4	-	0.0	
	Manchester ... 70	1010.4	+2	W	0	f	53	97	3	5	-	-	10	10	2500	1010.5	+6	S	2	10	47	97	3	-	-	5	0	2.3	-	1	63	44	38	4	0.2	0.0	
10	Spurn Head ... 29	1009.6	0	WNW	3	ir	58	92	6	8	-	-	10	10	2500	1010.5	+6	WNW	2	10	54	97	6	8	-	-	10	10	2500	1	61	52	46	Tr	1	6.3	
	Catterick ... 175	1010.3	+6	SW	1	c/r	53	92	6	5	-	-	10	10	6000	1009.7	0	ESE	1	10	50	97	4	5	7	-	7.8	9	2500	1	66	50	46	2	1	1.4	
	Tynemouth ... 108	1009.6	+4	S	2	ir	56	92	5	-	2	-	10	10	1500	1009.5	+4	S	2	10	54	92	5	8	-	-	9	9	2800	1	58	52	52	0.4	9	0.2	
11	St. Abbs Head ... 280	1008.2	0	WSW	3	c/r	52	85	7	5	2	-	7.8	10	1500	1007.6	0	SSE	4	10	50	92	9	5	4	-	4.6	7.8	2500	1	56	49	40	1	1	0.0	
	Leuchars ... 36	1007.3	+2	SW	2	z	57	92	6	5	2	-	1	7.8	600	1006.8	-4	-	0	bc	49	97	7	5	7	2	1	4.6	2200	1	59	47	40	8	-	0.0	
12	Renfrew (Abbots I.) ... 19	1007.6	-2	ESE	1	z	50	92	6	-	-	1	0	2.3	-	1006.0	-6	ESE	1	10	51	85	7	5	4	-	7.8	9	2000	1	64	46	38	6	-	0.0	
	Eskdalemuir ... 794	1007.6	-2	ESE	1	z	50	92	6	-	-	1	0	2.3	-	1006.0	-6	ESE	1	10	51	85	7	5	4	-	7.8	9	2000	1	64	46	38	6	-	0.0	
	Point of Ayre ... 30	1008.3	0	SW	2	b	51	97	8	-	4	8	0	1	-	1006.8	-10	SW	4	10	55	85	8	6	4	-	2.3	7.8	1200	1	60	48	43	12	0.2	0.0	
13A	Tiree ... 22	1004.2	-8	S	4	c	53	97	8	5	-	-	7.8	7.8	2100	1004.1	+4	-	0	c	50	97	7	5	-	-	9	9	1500	0	60	50	44	1	1	3.7	
13B	Stornoway ... 80	1002.0	-8	S	6	c	55	85	8	5	7	-	4.6	7.8	2500	1002.4	+4	-	0	bc	49	92	8	5	7	-	7.8	9	2500	1	58	48	43	6	3	0.0	
15	Dalwhinnie ... 1170	1007.0	-2	SW	3	c/r	54	92	7	5	-	-	9	9	1200	1007.0	-2	SW	3	10	54	92	6	5	7	-	7.8	9	2500	1	57	46	39	8	0.6	0.0	
	Aberdeen ... 79	1005.4	-2	SSW	3	c/r	54	92	7	5	-	-	9	9	1200	1005.0	-2	S	4	10	54	92	6	5	7	-	7.8	9	2500	1	57	46	39	8	0.6	0.0	
	Wick ... 119	1005.4	-2	SSW	3	c/r	54	92	7	5	-	-	9	9	1200	1005.0	-2	S	4	10	54	92	6	5	7	-	7.8	9	2500	1	57	46	39	8	0.6	0.0	
16	Sumburgh ... 30	1007.0	-14																																		



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Tuesday 30th September 1941.  
No. 25,167

OBSERVATIONS at 13h. G.M.T. 29th September														OBSERVATIONS at 18h. G.M.T. 29th September														PAST 24 HOURS.								
Direction.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	°C.	Humid. %	Visibility. 0-10	Cloud.				Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	°C.	Humid. %	Visibility. 0-10	Cloud.				State of Ground.	Sea.	WEATHER.						
				Dir.	Force.						Low.	Med.	High.	Low 0-10			Total 0-10	Height of Base. (feet)						Dir.	Force.	Low 0-10	Total 0-10			Height of Base (feet)	State of Ground.	Sea.	7h.—13h. 29th.	13h.—13h. 29th.	13h.—13h. 30th.	1h.—7h. 30th.
		(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	-2	SW	2	c	61	75	8	7	3	4	2-3	7-8	1500	1014.7	+14	SW	2	c	59	85	7	5	2	1	2	1	2	1	2	1	2	1	2	
	Croydon ...	1013.1	+2	SE	1	c	61	65	7	5	7	1	1	9	2000	1014.6	+14	SW	2	c	57	85	7	5	2	1	2	1	2	1	2	1	2	1	2	
	S. Farnborough	1013.1	-2	WS	3	c	65	55	8	1	3	9	1	7-8	3000	1014.7	+14	SW	3	c	58	85	8	5	3	2	1	2	1	2	1	2	1	2		
	Boscombe Down	1013.3	-2	WS	4	bc	64	65	8	7	6	2-3	4-6	3000	1015.2	+22	WN	1	c	55	92	8	5	3	2	1	2	1	2	1	2	1	2	1	2	
	Thorney Island	1013.3	+4	SW	2	c	63	65	7	7	3	2	2-3	7-8	5700	1015.2	+14	SW	2	c	58	85	8	5	3	2	1	2	1	2	1	2	1	2		
	Lymington	1014.6	+8	-	0	bc	59	85	7	5	2	2	2-3	10	1200	1015.8	+10	-	0	c/r	55	92	8	5	3	2	1	2	1	2	1	2	1	2		
	Manston	1013.5	+6	-	0	bc	59	82	6	5	7	1	1	10	1000	1015.5	+14	SW	1	bc	56	92	7	5	3	2	1	2	1	2	1	2	1	2		
2	Shoeburyness	1013.7	+4	SW	2	bc	60	85	6	6	7	1	4-6	10	2500	1015.0	+6	SW	3	c	58	85	6	5	4	1	2	1	2	1	2	1	2	1	2	
	Felixstowe	1012.3	+6	SE	2	bc	60	85	6	5	7	1	9	10	2000	1014.1	+12	SW	2	c	59	85	7	5	3	2	1	2	1	2	1	2	1	2		
	Gorleston	1013.0	+2	-	0	c/r	58	85	7	8	7	1	4-6	10	2000	1014.2	+8	8	2	50	85	5	5	3	2	1	2	1	2	1	2	1	2	1	2	
	Mildenhall	1012.0	-2	SW	3	c	61	87	7	7	7	1	9	2500	1013.4	+10	SW	2	20	50	85	6	5	3	2	1	2	1	2	1	2	1	2	1	2	
	Cranwell	1011.0	-6	SW	4	bc	64	55	8	1	4	1	2-3	2500	1013.2	+22	WS	3	0/r	56	85	6	5	3	2	1	2	1	2	1	2	1	2	1	2	
3	Birmingham	1011.0	0	SW	3	c	62	65	8	7	4	1	4-6	7-8	2500	1013.3	+14	WS	2	bc	55	85	8	5	7	1	2	1	2	1	2	1	2	1	2	
4	Upper Heyford	1011.0	-2	SW	3	bc	63	55	8	1	7	1	4-6	7-8	2500	1013.6	+16	WS	2	bc	56	85	8	5	7	1	2	1	2	1	2	1	2	1	2	
	Ross-on-Wye	1010.0	-6	SW	4	c	62	65	8	5	1	1	4-6	7-8	2500	1014.3	+14	W	2	c/r	57	75	8	5	7	1	2	1	2	1	2	1	2	1	2	
5	Hartland Point	1012.7	+20	WNW	4	bc	59	75	8	2	4	6	2-3	4-6	2500	1015.1	+16	WNW	3	bc	57	75	8	1	1	1	2	1	2	1	2	1	2	1	2	
	Bristol	1012.2	-6	SW	4	c	63	65	8	7	4	6	2-3	4-6	2500	1015.2	+20	W	4	bc	56	75	8	1	1	1	2	1	2	1	2	1	2	1	2	
	Portland Bill	1013.5	+4	WS	4	c	60	85	8	2	4	3	7-8	9	4000	1014.7	+12	NW	3	0/r	58	92	7	5	3	2	1	2	1	2	1	2	1	2	1	2
	Plymouth	1013.5	0	NW	2	c/d	59	82	7	2	7	1	9	2000	1016.5	+24	NW	3	b	57	65	8	1	7	1	2	1	2	1	2	1	2	1	2	1	2
	The Lizard	1013.5	+10	NW	4	bc	61	75	8	2	6	1	4-6	4-6	2500	1016.5	+20	NW	2	bc	56	75	8	2	1	2	1	2	1	2	1	2	1	2	1	2
	Stilly (St. Mary's)	1014.3	+4	NW	0	bc	63	75	8	5	1	1	2-3	2-3	1500	1016.6	+16	NW	3	bc	56	75	8	8	6	1	2	1	2	1	2	1	2	1	2	
	Quernsey	1012.5	+8	WNW	4	bc	59	65	8	7	4	1	2-3	2-3	3000	1014.7	+14	WS	5	bc	58	65	8	2	4	1	2	1	2	1	2	1	2	1	2	
6	Pembroke	1009.5	+18	WNW	5	bc	59	75	8	2	4	1	4-6	4-6	2000	1011.7	+12	WS	4	bc	56	65	8	2	6	1	2	1	2	1	2	1	2	1	2	
7	Holyhead (Valley)	1009.1	-2	WNW	3	c/r	57	75	7	5	1	1	3	9	1500	1012.9	+16	WS	1	bc	56	65	8	4	1	1	2	1	2	1	2	1	2	1	2	
8	Chester (Sealand)	1009.5	-6	8	3	c/r	59	75	6	5	1	1	4-6	10	2400	1012.9	+16	WS	2	20	53	85	6	8	1	1	2	1	2	1	2	1	2	1	2	
10	Spurn Head	1010.8	+2	SW	3	bc	61	85	6	1	1	1	4-6	4-6	4000	1011.7	+8	SW	2	c/r	63	75	6	3	1	1	2	1	2	1	2	1	2	1	2	
	Catterick	1008.1	-16	SW	4	c/r	64	45	6	5	6	1	4-6	7-8	3000	1011.7	+26	SW	2	b	57	75	8	4	7	1	2	1	2	1	2	1	2	1	2	
	Tynemouth	1008.0	-16	5	4	bc	62	65	7	7	4	1	4-6	4-6	3000	1010.3	+30	W	3	bc	55	65	6	8	1	1	2	1	2	1	2	1	2	1	2	
11	St. Abbs Head	1005.0	-22	5	4	c	61	65	8	8	4	1	4-6	7-8	2500	1007.8	+20	W	4	bc	51	85	9	4	4	1	2	1	2	1	2	1	2	1	2	
	Loughs	1004.0	-22	5	3	bc	59	75	7	4	7	1	4-6	7-8	2500	1006.6	+26	WS	2	bc	51	85	8	4	4	1	2	1	2	1	2	1	2	1	2	
12	Rebrow (Abbots L.)	1005.2	+2	WN	4	bc	53	85	8	8	1	1	9	9	2500	1007.9	+12	WS	1	bc	51	75	8	4	4	1	2	1	2	1	2	1	2	1	2	
	Eskdalemuir	1005.2	-10	SW	4	bc	53	92	6	2	3	1	10	450	1009.3	+22	SW	2	bc	48	85	8	5	1	1	2	1	2	1	2	1	2	1	2	1	2
	Point of Ayre	1007.4	+16	WNW	4	bc	57	82	8	2	3	1	4-6	2000	1010.1	+18	WS	3	b	54	85	8	4	1	1	2	1	2	1	2	1	2	1	2	1	2
13a	Three	1005.6	0	W	3	bc	54	75	8	2	1	1	4-6	4-6	2500	1005.5	0	SW	4	bc	52	75	8	3	1	1	2	1	2	1	2	1	2	1	2	
13b	Stornoway	1003.2	-4	SE	4	c	54	85	8	5	7	1	7-8	9	3000	1002.9	0	SW	5	c/r	51	85	8	5	7	1	2	1	2	1	2	1	2	1	2	
15	Dalwhinnie	1004.4	-6	W	3	bc	45	85	6	1	1	1	10	10	1500	1006.8	+12	5	2	bc	44	85	8	4	1	1	2	1	2	1	2	1	2	1	2	
	Aberdeen	1004.7	-6	SE	5	bc	57	75	7	1	4	8	1	2-3	1800	1006.8	+20	WNW	3	bc	48	85	7	4	1	1	2	1	2	1	2	1	2	1	2	
	Wick	1003.3	-10	8	3	bc	56	85	7	5	7	1	10	5700	1004.2	+14	WS	2	bc	47	92	9	4	1	1	2	1	2	1	2	1	2	1	2	1	2
16	Sumburgh	1005.1	-12	SE	4	c	53	92	8	5	7	1	4-6	10	1500	1003.0	-10	SE	4	c	53	92	8	5	3	1	2	1	2	1	2	1	2	1	2	
17	Blackod Point	1007.1	-2	WS	3	c	57	65	8	2	6	1	2-3	7-8	2500	1006.8	0	WS	5	bc/r	53	75	8	4	1	1	2	1	2	1	2	1	2	1	2	
18	Malin Head	1006.1	+10	W	4	bc	51	75	7	3	1	1	7-8	7-8	15																					



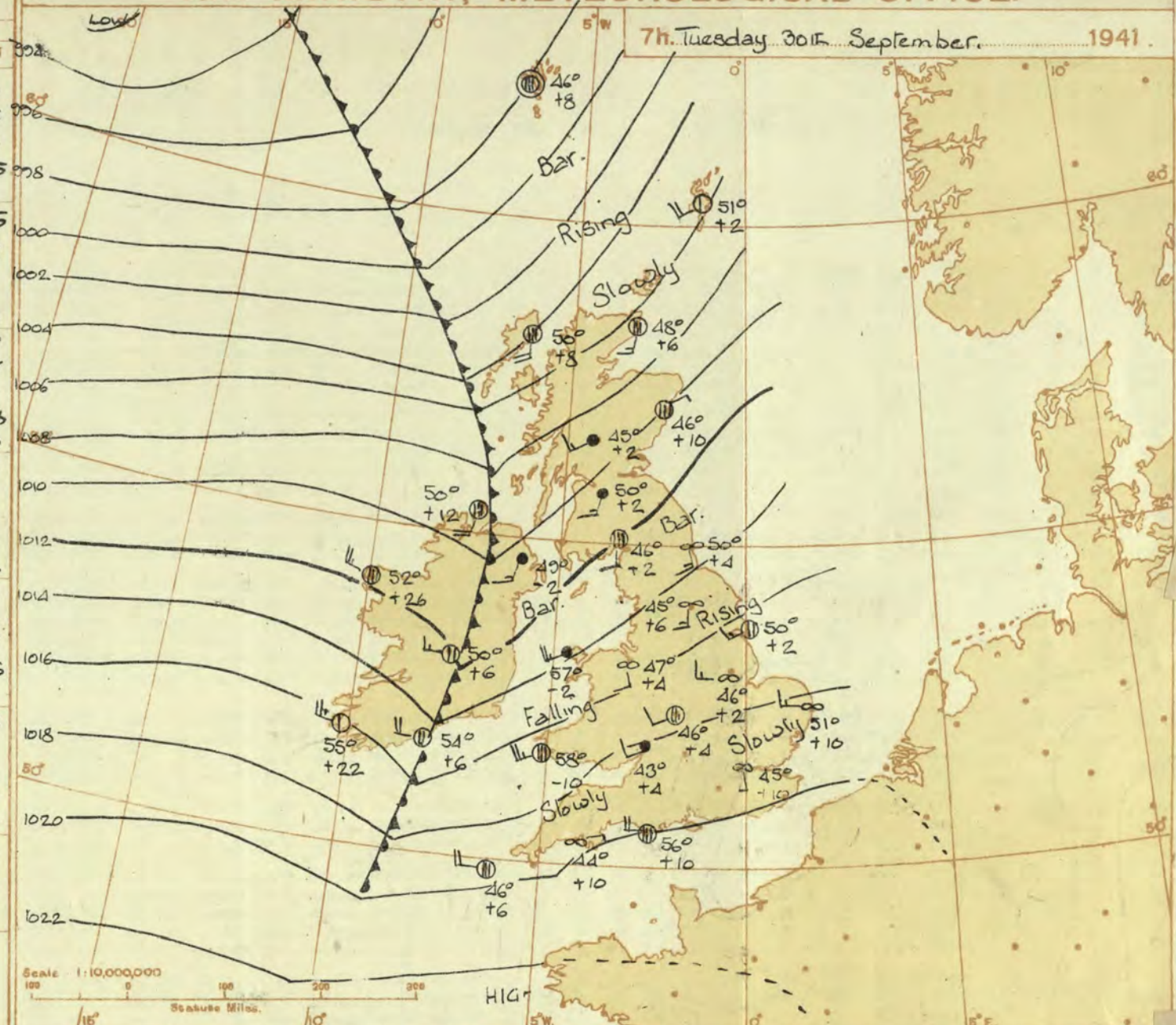
Abridged observations of additional stations in the

# AVIATION WEATHER CODE

13h. G.M.T. 29th. September. G.M.T.					01h. G.M.T. 30th. September. 07h. G.M.T.							
III	C <sub>u</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>u</sub>	ww	Vh <sub>N</sub>	DDFWN	C <sub>u</sub>	ww	Vh <sub>N</sub>	DDFWN
109	57	02775	13427	02	62858	24468	50	00861	16401	57	02841	17514
115	52	62734	20387	34	10244	20465	54	81844	20485	54	81844	20485
203				21	02034	16488	3-	01243	16563	6-	64838	16668
206	5-	62858	18268	54	01263	22363	5-	01263	23313	53	02263	24222
210	52	62765	15227	50	00263	18263	50	01863	17303	57	02263	14315
220	80	01854	24304							80	02855	25125
230	83	02854	00065	2-	01254	20384	80	25854	20284	82	62747	20268
245	57	02755	14516	50	00251	22261	54	01853	18303	57	02763	28117
260	5-	61747	14427	84	00852	22363	50	01853	17303	57	02863	16317
278	8-	02853	22323	84	00852	22282	04	00853	20311	52	62744	19368
279	62	63545	18468	20	01863	20414	5-	02856	54616	62	61745	19487
285	23	02745	18516	20	01854	26414				27	02635	22487
288	10	05651	18411	5-	00863	21353	00	05620	20310	07	02720	16415
575	26	01854	24584	53	02855	55315	50	01853	22484	62	51847	22268
801	87	22745	24567	24	01253	25414	00	00720	18400	22	02754	22488
321	10	05662	13402	57	05656	20226	00	05520	18300	57	05563	18205
299	50	05644	22264	5-	02747	22327	50	00752	22202	5-	05554	22214
292	14	05653	17313	50	01244	22204	00	08420	10100	07	47320	13205
310				--	01635	20315				--	01645	20415
614	2-	02755	18415	57	05654	22126	00	04520	24100	07	47220	20144
333	2-	01254	24464	20	01262	21111	4-	01864	20404	62	62845	20568
334	--	02645	26316							--	03546	20328
340	62	21857	18458	20	00261	22282	00	00820	16202	23	01861	15315
136	17	02745	18367	07	05620	20327	03	05620	20263	06	05620	20206
336	13	02763	24325	24	01762	24313						
360	17	01763	18414	5-	02867	30327				07	05620	18225
368				40	00253	22413	2-	01743	00013			
579	10	01854	18414	57	02865	18267	00	05620	18100	83	02854	20416
890	57	43365	16268	07	05520	18226	00	05620	24110	07	44390	24147
382	18	01253	18314	77	02865	00027	00	04620	00000	07	04620	00015
485	02	61757	15267							51	01754	01415
430				05	02820	20125	00	00720	28120	07	44320	24228
409	50	01844	28214	20	00852	26212	00	00720	18210	57	02753	16316

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W - Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
 N - Total amount of cloud—See M.O. 252.  
 C<sub>u</sub>, C<sub>m</sub> - Form of low and medium cloud—See page 1.  
 V - Visibility. F = Force of wind—See page 4.  
 DD - Direction of wind (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 September, 1941.
1 S.E. England	Light or moderate S.W. - W. wind; mainly fair, but some very slight rain this evening; rather cool.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Light to moderate W.S.W. wind, veering W.; fair at first, cloudy with slight rain later today, then becoming fair again; rather cool.
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Moderate S.W. wind, veering W.N.W., fresh locally; cloudy or overcast with some rain at first, bright periods and showers spreading from west later; rather cool.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Moderate S.W. wind, fresh at exposed places; bright periods and occasional showers at first, overcast with some rain later; cool.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	Moderate or fresh W.N.W. wind; bright intervals and showers; rather cool.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

FRONTS or boundaries between masses of air of different 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 complex depression is centred off S.W. Ireland, and a trough of low pressure over Ireland is moving east. Rain will spread eastwards across the country, reaching East England by evening, but will be very slight in the South. There will be bright intervals later with occasional showers, especially in the North. It will be rather cool generally.

### FURTHER OUTLOOK.

Cool westerly winds continuing; bright periods generally, but occasional showers, especially in the North.

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

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

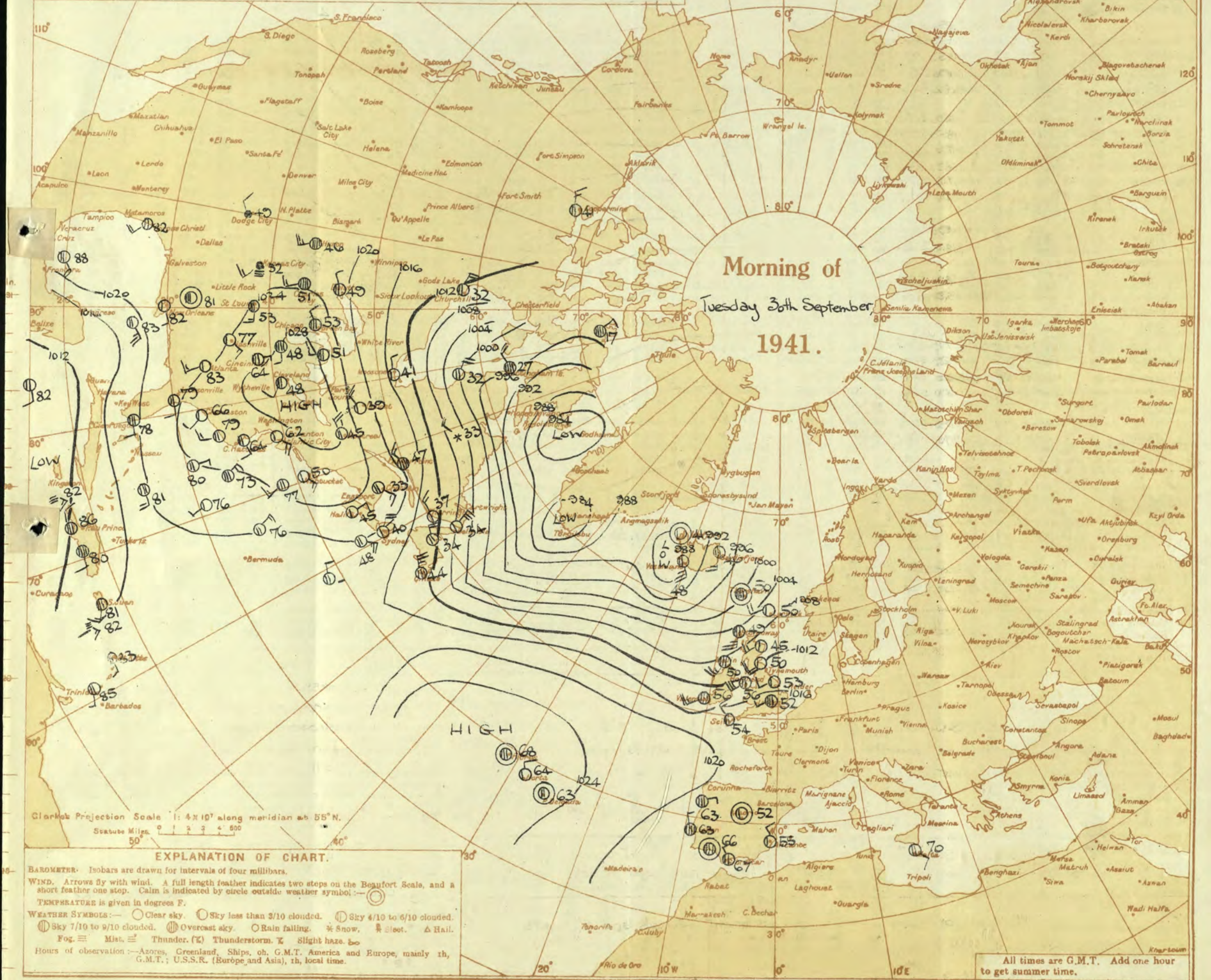
0269/4120. No. 5176. D. 6034. 6p. 348-3500. 9/41



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

## Explanation of Frontal Lines shown on Charts

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





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Tuesday 30th September 1941.  
No. 29167

OBSERVATIONS at 1 hr. G.M.T														OBSERVATIONS at 7 hr. G.M.T														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. (7)	Humid. (8)	Visibility. (9)	Cloud.				Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. (20)	Humid. (21)	Visibility. (22)	Cloud.				State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SEA-SUN & MOON. (36)			
					Dirce. (3)	Force. (4)					Form. (10)	Amount. (11)	Height of Base. (feet). (14)	Dirce. (17)			Force. (18)	Form. (23)					Amount. (24)	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)						
																																0-12 (5)	0-3 (12)		0-10 (13)	0-9 (25)	0-9 (26)
1	London (Kew) ...	18	*	*	*	*	*	*	*	*	*	*	*	1019.3	+10	SW	1	Zo	49	92	6	-	7	6	0	9+	-	1	*	62	48	33	Tr	Tr	1.5		
	Croydon ...	217	1017.4	+4	SW	c	52	97	7	-	-	7	0	10	-	1018.9	+10	SSE	1	Zo	45	97	6	-	7	6	0	9+	5000	1	*	61	44	41	0.1	-	1.1
	S. Farnborough ...	226	1017.7	+6	NW	Zo	51	85	6	-	-	-	0	1	-	1019.5	+10	-	-	43	92	6	-	7	8	0	7.8	-	1	*	67	42	34	-	Tr	3.3	
	Boscombe Down ...	417	1018.6	+10	NW	b	46	92	7	-	-	-	0	0	-	1019.7	+10	SW	1	fg	42	97	6	-	7	2	2.3	7.8	7000	0	*	64	38	31	0.2	Tr	5.8
	Thorney Island ...	10	1017.4	+2	NW	1	51	92	6	-	-	-	0	0	-	1019.2	+10	NW	2	Zo	45	97	6	-	7	-	0	9	-	0	*	65	43	38	-	0.3	-
	Lynpe ...	346	1018.0	0	W	1	49	97	7	-	-	8	0	2.3	-	1019.0	TG	NW	2	m	51	97	4	-	7	-	0	9+	-	0	*	60	46	46	2	-	0.0
	Manston ...	154	1017.2	0	WN	1	52	97	6	-	7	6	1	9	3000	1019.3	+8	NNW	1	Zo	55	85	6	-	7	-	7.8	9+	6000	1	*	60	49	45	-	0.1	0.0
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	1018.6	+12	WNW	1	C	48	92	6	5	5	4	4.6	7.8	5700	1	*	61	47	44	1	-	0.0		
	Felixstowe ...	15	1016.3	+2	W	3	55	92	5	-	7	-	0	2.3	-	1017.7	+10	NW	1	Zo	52	85	6	5	7	-	Tr	9+	5500	1	2	61	52	48	1	-	0.0
	Gorleston ...	5	1016.4	+4	W'S	2	53	92	5	-	-	-	0	0	-	1018.0	+6	W	3	Zo	51	92	6	5	4	-	4.6	7.8	2000	1	2	60	51	46	-	-	0.0
	Mildenhall ...	19	1017.0	+8	WN	2	52	97	6	-	7	-	0	4.6	-	1018.2	+6	SW'S	2	Zo	46	97	6	-	9	-	0	9	-	1	*	62	44	34	0.4	Tr	0.0
	Cranwell ...	240	1016.4	+6	WSW	2	46	85	6	-	-	1	0	1	-	1017.0	+2	W	3	Zo	46	92	6	-	4	2	0	4.6	-	1	*	56	45	39	Tr	Tr	4.7
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	1017.8	+4	SW	2	C	46	92	7	5	7	6	2.3	7.8	2500	1	*	63	44	40	0.4	-	5.6		
	Upper Heyford ...	408	1017.7	+6	W	1	46	97	2	-	3	-	0	1	-	1018.8	+8	SW'S	2	Zo	43	97	6	5	7	8	Tr	4.6	6000	1	*	62	42	39	Tr	Tr	6.5
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	1018.0	+4	SW	2	id	43	97	6	8	-	1	7.8	9+	2500	1	*	62	38	33	Tr	Tr	-		
5	Hartland Point ...	299	1017.6	+4	W	4	56	75	8	-	-	-	2.3	2.3	4800	1017.7	+10	W	4	C	57	85	8	8	2	-	7.8	9+	2100	0	4	59	55	51	1	-	7.1
	Bristol ...	209	1018.3	+4	-	0	45	92	6	5	-	-	Tr	Tr	3000	1018.9	+6	SSW	3	C	52	85	7	5	-	-	9+	9+	2400	1	*	65	48	31	0.3	-	5.1
	Portland Bill ...	32	1018.1	+10	NW	4	56	92	7	5	-	-	4.6	4.6	2500	1019.5	+10	W	4	C	56	92	8	8	7	-	7.8	10	2500	1	4	61	54	-	-	-	
	Plymouth ...	82	1019.5	+8	SE	1	43	97	7	-	-	-	0	0	-	1020.5	+10	ESE	1	Zo	44	97	6	5	-	1	7.8	9	3000	1	2	61	41	40	0.5	Tr	6.5
	The Lizard ...	240	1019.0	0	W/N	3	54	85	8	4	-	-	2.3	2.3	2500	1019.8	+8	W	4	bc	55	92	8	4	-	-	4.6	4.6	2500	1	4	62	53	-	-	-	7.5
	Scilly (St.Mary's) ...	163	1019.0	+2	W/N	3	54	85	8	5	-	2	1	2.3	1500	1019.3	+6	W	4	C	56	85	8	5	7	-	4.6	9	1200	1	4	63	53	-	-	-	7.5
	Guernsey ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.8	+4	SW	2	C	46	92	7	5	7	6	2.3	7.8	2500	1	*	63	44	40	0.4	-	5.6
6	Pembroke ...	142	1016.6	+2	WSW	6	53	65	8	-	6	-	0	2.3	-	1016.7	+10	SSW	6	C	58	85	8	8	6	-	4.6	7.8	4000	1	4	59	56	-	-	-	6.7
7	Holyhead(Valley) ...	26	1013.7	+6	SW	6	56	75	8	5	-	-	4.6	4.6	2500	1013.3	-2	SW	5	ir	57	85	6	5	2	-	4.6	10	600	1	4	60	50	50	-	Tr	-
	Chester(Sealand) ...	16	1015.6	+6	SSE	3	47	85	6	-	4	6	0	4.6	-	1015.3	+4	SSE	2	Zo	47	92	6	5	7	6	4.6	9+	3000	1	*	62	46	39	Tr	-	6.0
8	Manchester ...	70	1015.5	+6	S/E	2	44	92	6	-	4	1	0	1	-	1015.5	+2	S	3	Zo	47	92	6	5	9	1	1	9+	3000	1	*	61	39	33	0.6	-	5.8
10	Spurn Head ...	29	1015.9	+4	SW'S	2	53	85	7	-	-	-	0	0	-	1016.3	+2	SW	3	bc	50	85	7	5	9	-	2.3	4.6	4000	0	3	63	48	-	-	-	4.3
	Catterick ...	175	1014.5	+6	S	2	48	85	6	2	-	-	2.3	2.3	2500	1014.6	+6	S	3	Zo	45	92	5	8	7	-	2.3	9	2200	0	*	65	43	38	Tr	-	5.9
	Tynemouth ...	108	1013.3	+4	SW	4	50	85	6	-	-	-	0	0	-	1013.4	+4	SSE	3	Zo	50	85	6	8	-	-	7.8	7.8	2200	1	3	63	48	44	-	-	-
11	St. Abbs Head ...	280	1010.3	0	S	2	45	85	8	4	4	-	2.3	2.3	2500	1010.7	+2	SW	5	C	49	85	9	5	4	-	4.6	9+	2500	1	3	61	44	-	-	-	-
	Leuchars ...	36	1009.0	+2	W	2	46	85	7	5	-	-	1	1	2500	1010.0	+2	SSW	1	C	46	92	8	5	7	-	2.3	7.8	1800	0	*	61	45	37	0.4	1	4.4
12	Renfrew (Abbots L.) ...	19	1009.5	+2	SW'W	3	50	85	7	2	-	-	Tr	Tr	2000	1010.0	+2	S	3	rr	50	85	5	6	2	-	7.8	10	1000	1	*	56	47	36	11	1	2.0
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.4	+2	S	2	C	46	92	8	5	-	-	9	9	1500	1	*	55	41	33	2	1	1.9
	Point of Ayre... ..	30	1011.7	0	W'S	5	52	85	8	4	-	-	1	1	1800	1012.1	0	SW'W	4	rr	50	92	8	9	2	-	10	10	4000	1	3	59	49	-	-	-	5.2
13A	Tiree ...	22	1008.7	+2	SSW	4	52	85	7	8	-	-	4.6	4.6	1800	1003.6	+8	S	4	C/pr	50	85	8	8	7	-	7.8	9+	2000	1	2	56	49	-	-	3	1.7
13B	Stornoway ...	80	1002.5	+2	S	5	49	75	7	8	7	-	4.6	9+	2500	1008.0	+2	SW	3	ir	45	85	8	5	1	-	10	10	1500	1	*	50	42	35	8	2	1.1
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	1008.0	+2	SW	3	ir	45	85	8	5	1	-	10	10	1500	1	*	50	42	35	8	2	1.1
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.0	+10	NE	1	C	46	92	7	8	7	-	4.6	10	2300	1	2	59	45	31	0.1	-	3.7
	Wick ...	119	1005.7	-4	SW	3	48	85	8	5	-	-	2.3	2.3	2000	1006.9	+6	SW	3	C	48	85	9	5	7	9	2.3	7.8	7200	1	*	57	44	6	0.1	-	-
16	Sumburgh ...	30	1005.6	+14	WSW	4	50	85	8	-	-	-	0	0	-	1006.6	+2	SW	4	b	51	85	8	1	3	1	Tr	1	1200	1	*	56	49	45	-	0.1	0.0
17	Blackod Point ...	18	1008.2	-2	WSW	6	PR	53	75	7	9	-	10	10	1500	1011.1	+26	WNW	5	C/pr	52	75	8	9	-	-	7.8	7.8	1600	1	4	58	48	-	-	4	-
18	Malin Head ...	84	1007.0	+2	SW	5	C/pr	50	75	6	3	-	7.8	7.8	1500	1007.8	+12	SSW	4	C/pr	50	85	7	9	-	2	4.6	7.8	1500	1	5	56	46	1	3	6.0	
	Aldergrove ...	268	100.7	+4	SSW	3	bc	47	92	8	5	-	2.3	2.3	2500	1010.4	-2	SSW	3	rr	49	97	7	6	2	-	9	10	700	1	*	59	45	42	1	3	6.1
19	Birr Castle ...	173	1011.7	0	SW	3	C	52	85	8	5	-	10	10	2500	1012.3	+6	W	2	bc/pr	50	92	8	3	-	-	2.3	2.3	1500	1	*	59	49	45	1	5	7.7
20	Valentia Obay. ...	30	1013.9	-2	SW	5	C	56	75	8	5	2	4.6	10	1500	1016.2	+22	WNW	5	SW	55	75	8	2	3	-	Tr	1	2500	1	5	60	53	49	1	6	6.4
	Roches Point ...	22	1015.3	0	WSW	2	bc	53	85	8	5	-	2.3	2.3	1500	1015.3	+6	W	4	bc/r	54	85	8	5	-	-	4.6	4.6	1500	1	4	61	53	-	Tr	2	-

[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.

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

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