M.O. Form 2373

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THE DAILY WEATHER REPORT

BRITISH SECTION

1st October to 31st December

1941

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

INTRODUCTION

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

NOTES REGARDING THE BRITISH SECTION.*

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

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

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

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

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

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

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

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

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

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

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

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

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

Sector.	Hour of Observation.
U.S.S.R. (approx. 170° E. to 30° E.)	7h. local time.
30° E. to 40° W.	6h. or 7h. G.M.T. (Azores 8h.).
40° W. to 170° W.	0h. 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.).	1h. local time.
30° E. to 170° W.	0h. 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 :—

(*a*) Two weather maps (Scale 1 : 20,000,000) for Europe, the Mediterranean and Eastern Atlantic for 18h. yesterday and 7h. to-day.

(*b*) Two inset maps (Scale 1 : 20,000,000) for Northwest Europe for 13h. yesterday and 1h. to-day.

(*c*) Table of meteorological observations taken at about 80 stations, mostly on the Continent of Europe (not for the British Isles).

(*d*) Table of meteorological observations received by Wireless Telegraphy from Ships on the Northern Atlantic.

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

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

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

THE BEAUFORT SCALE OF WIND FORCE

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

GALE WARNINGS *

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

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

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

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

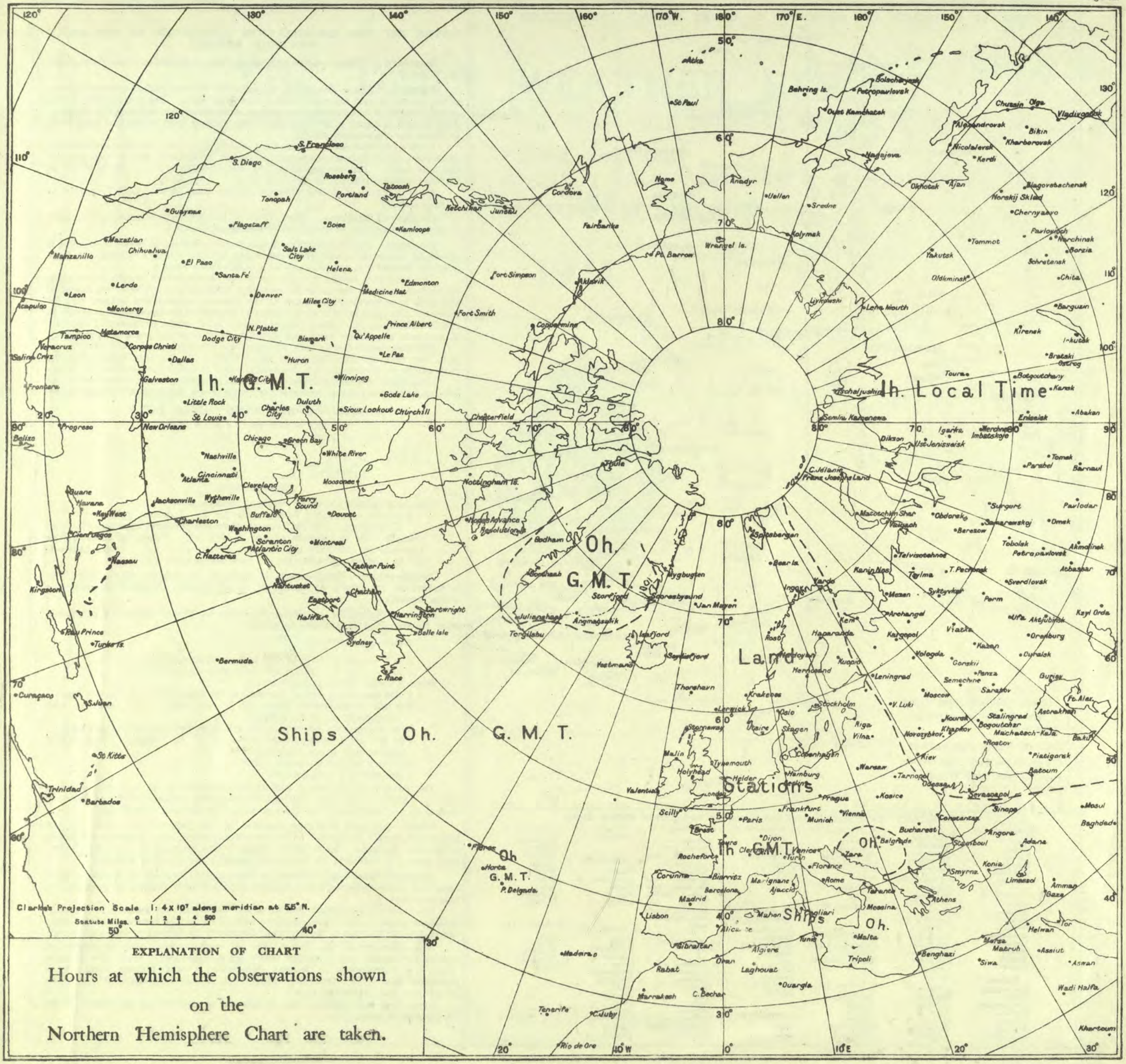
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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

▲ North Cone hoisted : ▼ South Cone hoisted :

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

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



EXPLANATION OF CHART

Hours at which the observations shown on the Northern Hemisphere Chart are taken.

FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND

Stations printed on pp. 1 and 4 are shown in capitals—LERWICK.
Stations whose observations are given on page 2 are shown thus :— 115 Cape Wrath.

FORECAST DISTRICTS and the Counties comprised within them

1. *England, S.E.*
Kent.
Sussex.
Surrey.
Hampshire.
Berkshire.
Wiltshire.

2. *England, E.*
Essex.
Middlesex.
Hertford.
Bedford.
Huntingdon.
Cambridge.
Suffolk.
Norfolk.
Lincoln.

3. *Midlands, E.*
Buckingham.
Oxford.
Northampton.
Warwick.
Leicester.
Rutland.
Nottingham.

4. *Midlands, W.*
Gloucester.
Hereford.
Worcester.
Shropshire.
Stafford.

5. *England, S.W.*
Dorset.
Somerset.
Monmouth.
Devon.
Cornwall.

6. *Wales, S.*
Glamorgan.
Brecknock.
Carmarthen.
Pembroke.
Cardigan.
Radnor.

7. *Wales, N.*
Montgomery.
Merioneth.
Flint.
Denbigh.
Carnarvon.
Anglesey.

8. *England, N.W.*
Cheshire.
Lancashire.
Westmorland.
Cumberland.

9. *Midlands, N.*
Derby.
Yorkshire, W.

10. *England, N.E.*
Yorkshire, N. & E.
Durham.
Northumberland.

11. *Scotland, S.E.*
Roxburgh.
Selkirk.
Peebles.
Berwick.
Haddington.
Edinburgh.

11. *Scotland, S.E. (cont.)*
Linlithgow.
Clackmannan
Kinross.
Fife.
Forfar.

12. *Scotland, S.W., and Isle of Man.*
Isle of Man.
Dumfries.
Kirkcudbright.
Wigtown.
Ayr.
Lanark.
Renfrew.
Dumbarton.
Stirling.

13A. *Scotland, W.*
Argyll.
Bute.

13B. *Scotland, N.W.*
Hebrides.
Western parts of Inverness, Ross and Cromarty, Sutherland.
(Boundary line runs from Rannoch Station through Fort Augustus, Beauly and Lairg to Melvich.)

14. *Mid Scotland.*
Perth.

15. *Scotland, N.E.*
Kincardine.
Aberdeen.
Banff.
Elgin.
Nairn.
Caithness.
Eastern parts of Inverness, Ross, Sutherland.

16. *Orkneys and Shetlands.*

17. *Ireland, N.W.*
Galway.
Roscommon.
Mayo.
Sligo.
Leitrim.

18. *Ireland, N.E.*
Meath.
West Meath.
Longford.
Cavan.
Fermanagh.
Monaghan.
Louth.
Armagh.
Down.
Antrim.
Londonderry.
Tyrone.
Donegal.

19. *Ireland, S.E.*
Waterford.
Wexford.
Kilkenny.
Carlow.
Wicklow.
Offaly.
Leix.
Kildare
Dublin.

20. *Ireland, S.W.*
Cork.
Kerry
Limerick
Tipperary.
Clare.

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

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

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

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

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

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

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

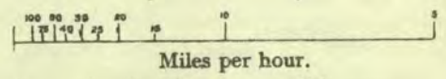
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the upper wind is about 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 $1 : 4 \times 10^7$ Charts.
or 2 mb ,, ,, $1 : 10^7$,,



Miles per hour.

This scale applies under the following conditions :—
Pressure, 1,015 mb. Temperature, 50° F. Latitude, 55°.
Corrections.—For an increase of 10 mb pressure, subtract 1% from velocity; for an increase of 10° F. add 2%. From Latitude 55° to Latitude 65° subtract 1% for each degree *above* 55°. From Latitude 55° to Latitude 45° add 1½% for each degree *below* 55°.

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

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

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

$x = f - \cdot 444\,(t - t')$ for wet bulb readings above 32° F.
$x = f - \cdot 400\,(t - t')$ for wet bulb readings below 32° F.

where x is the vapour pressure in mb.
F the saturation vapour pressure at the temperature of the dry bulb;
For air temperatures below 32° F. the value of F used is that appropriate to an ice surface.
f the saturation vapour pressure at the temperature of the wet bulb;
For wet bulb temperatures below 32° F. the value of f used is that appropriate to an ice surface.
t the dry bulb temperature; and
t' the wet bulb temperature.

The entries in columns 7 and 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.

H.M.S.O. Press, M.O., Dunstable. Ps. 227/4714 Wt. 8133A. D.8928 Gp. 948. 310. 12/4

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THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT, October 1941 No. 298

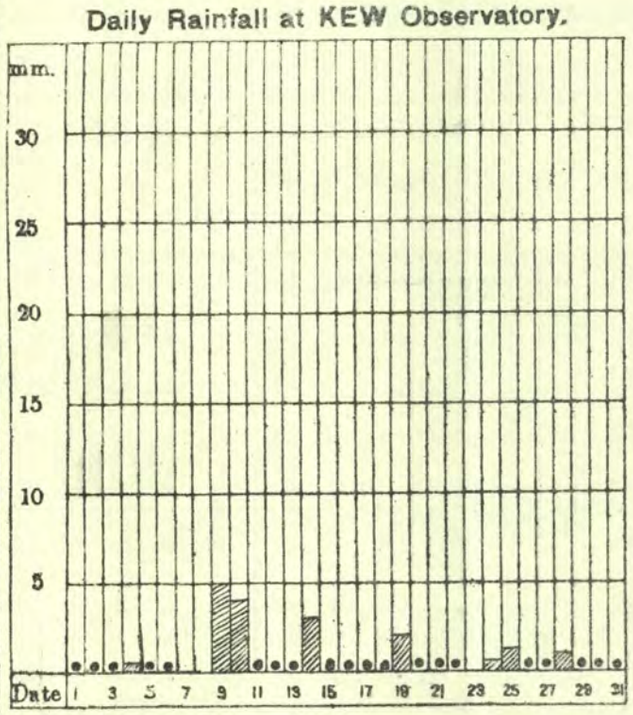
Fair at first, then mild and stormy, becoming cold.

The month opened with fair weather, the British Isles being under the influence of an anticyclone off Southwest Ireland, which subsequently moved in over the country and then receded slowly northward. During the period 5th - 8th it was warm and close with widespread fog night and morning, and occasional rain, usually of a thundery nature moved up from the South and subsequently spread northwestwards to Northwest Scotland. By the 9th a complex low pressure system spread in from the West and the next day or so were marked by heavy falls of rain in the north of England and in Scotland. On the 11th a cold anticyclone spread rapidly down from the far North, giving brilliant sunshine but some night frost. The anticyclone receded southeastwards and the next seven days from the 14th were strong, mild and unsettled, as a succession of intense depressions moved on a northeasterly track between Iceland and Scotland. Westerly gales were general, with a gust of 71 at Pembroke on 18th, and there was considerable rain in the West and North. The last depression having moved northeast to Scandinavia, the anticyclone from the Iberian Peninsular spread northward with resultant good sunshine records on the 21st and 22nd. The anticyclonic centre had moved to North Scotland by the 23rd and a colder northerly current spread over the country on the 24th as the high receded slowly but steadily southwestward. Subsequently, a depression moved down from Iceland to the North Sea causing northerly gales and wintry precipitation, particularly on the 28th and 29th. A more easterly type, though still rather cold, had become established by the end of the month.

The first three weeks of the month were mild and on the 6th, 75°F was recorded at several stations in the London area and 73°F in Kent, and Hampshire. After the 23rd it became much colder and maxima remained low to the end of the month, Coltericks recording only 39°F on the 29th. The nights too were cold, Dalwhinnie recording a screen temperature of 19°F on the 24th.

Sunshine was mostly a little above average and there were several days with very good sunshine records, particularly during the first week, and on the 11th, 21st, and 22nd. Over 10hrs were recorded at Lympne and Manston on the 3rd, 10hrs at Tiree on 11th, and later in the month, Scilly and Bascombe Dn. recorded over 9½hrs. Rainfall varied considerably over the country and was above average over most of Scotland and North Ireland, but below in South England and in Eire. Exceptionally heavy daily falls occurred on 9th & 10th, 58mm at Pt. of Ayre and 55mm at Aberdeen. Barometric pressure was above average everywhere especially in the Southwest. The Aurora Borealis was observed widely on the 11th and 22nd.

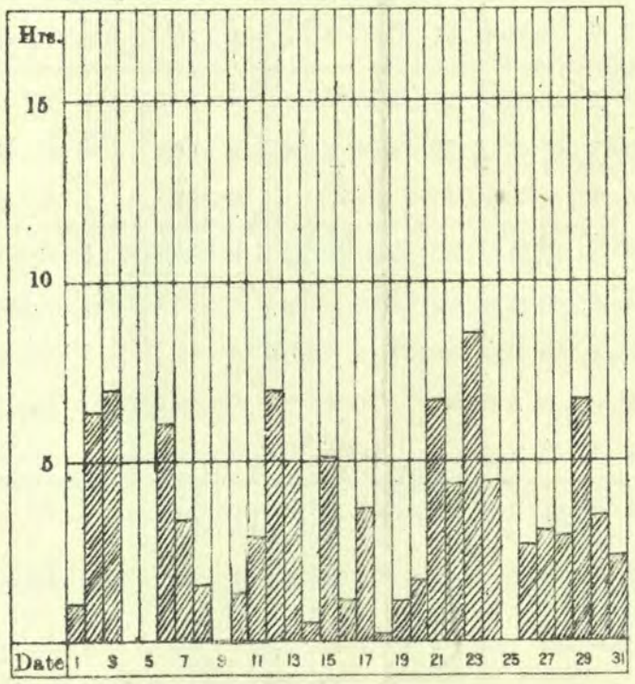
Daily Rainfall at KEW Observatory.



● = Less than 0·5 mm.

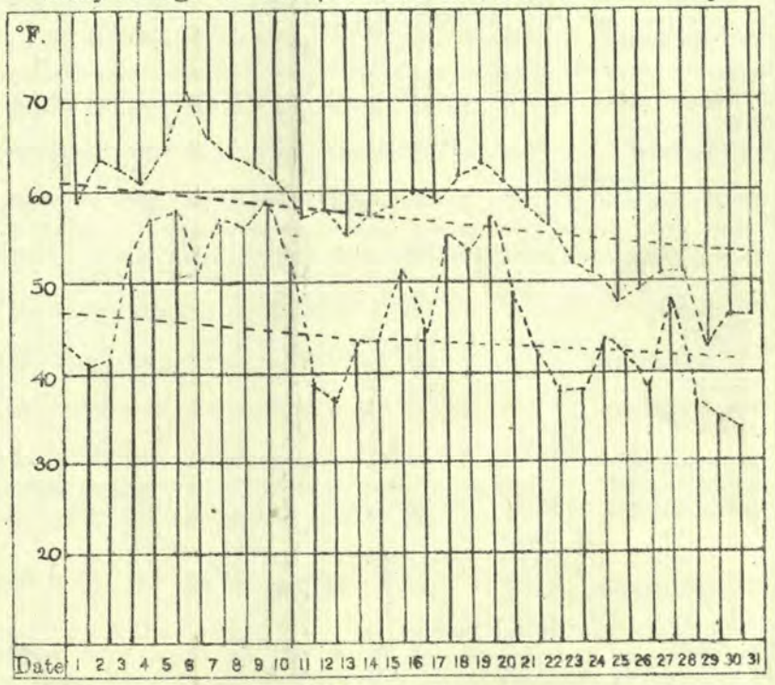
RAINFALL. Total for Month. 19 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 104 hrs.

Daily Range of Temperature at KEW Observatory.



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

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure Mean	Pressure Difference from average	Temperature Mean	Temperature Difference from average
	mb.	mb.	°F.	°F.
Kew	1021·3	+7·3	52·1	+0·5
Aberdeen	1018·3	+7·3	48·3	+0·5
Valentia	1022·0	+9·4	54·8	+2·1

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

WIND FREQUENCIES AT 7 hr.

Kew	Aberdeen	Valentia
3	2	0

Forces 1–3 —— ·; forces 4–7 ═══ ; force 8 or above ▬▬ . Scale: 10 mm to 10 observations.
The figure in the centre of the circle gives the number of calms.

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

	miles.
Kew ...	
Aberdeen ...	5460
Lerwick ...	12823
Valentia ...	

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District.	Stations.	† TEMPERATURE. Number of daily readings within fixed limits. Maximum. 33°-41°	42°-50°	51°-59°	60°-68°	69°-77°	Average Maximum. °F.	Minimum. 24°-32°	33°-41°	42°-50°	51°-59°	60°-68°	Average Minimum. °F.	Extremes—Warmest and Coldest. Days. Highest Max. °F.	Date.	Lowest Max. °F.	Date.	Nights. Highest Min. °F.	Date.	Lowest Min. °F.	Date.	Number of Ground Frosts.	LOW CLOUD. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	FOG, MIST and GOOD VISIBILITY. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
1	London ... (Kew Obsy).	0	5	13	12	1	57·5	0	9	10	12	0	45·7	71	6	43	29	59	10	34	31	6	5	22	0	0	29	0	1	27	0	0	5	0	1	4	0	0	1	2	16
	Croydon ...	0	7	8	13	3	57·0	1	11	10	9	0	45·1	75	6	43	29	57	20	32	31	2	10	12	1	3	24	1	1	20	0	0	1	2	6	11	0	0	0	1	20
	Thorney Island ...	0	3	9	16	3	57·8	1	12	7	10	1	47·4	71	5, 6, 7	46	29	61	10	31	31	6	3	18	2	1	29	0	0	22	0	1	1	0	0	18	0	0	0	0	24
	Lympne ...	0	7	11	12	1	56·5	0	15	6	10	0	45·4	72	6	42	29	57	10	33	30	3	7	13	3	3	23	2	3	17	1	0	1	1	4	16	0	0	0	3	22
2	Shoeburyness ...	0	4	10	17	0	58·4	0	9	12	10	0	45·1	66	9	43	29	58	10	34	31	4	3	21	1	2	23	2	1	20	2	2	0	4	2	11	0	0	2	2	21
	Gorleston ...	0	5	12	14	0	57·1	0	5	16	10	0	46·5	65	2, 6, 10	42	29	58	10	36	29	0	6	20	0	6	22	0	7	18	0	3	1	0	1	14	0	0	1	2	20
	Cranwell ...	1	5	12	13	0	56·1	0	12	12	7	0	43·0	66	3, 8	41	29	59	10	33	29, 31	3	8	15	0	4	25	0	3	22	0	0	2	3	3	10	0	0	0	3	19
3	Birmingham ... (Edgbaston)	1	6	12	12	0	54·5	0	10	10	11	0	44·2	68	7	41	29	57	8, 9	34	29, 30, 31	7	9	14	0	2	28	0	5	24	0	0	3	1	6	5	0	0	0	4	17
4	Ross-on-Wye ...	0	7	10	13	1	56·7	1	11	9	10	0	44·2	70	7	44	29, 31	58	9	31	12	5	5	17	0	1	29	0	2	27	0	0	3	1	2	18	0	0	0	0	23
5	The Lizard ...	0	2	14	15	0	*	0	4	9	18	0	*	64	2	48	31	58	9	38	30	*	2	29	0	2	29	0	3	28	0	0	1	0	0	28	0	0	2	0	26
7	Holyhead ...	0	2	16	12	1	55·5	0	3	15	13	0	49·5	72	7	47	29	58	8	35	12	2	4	25	0	4	26	0	3	26	1	0	0	0	0	23	0	0	0	0	25
8	Chester ... (Sealand)	0	6	12	13	0	56·5	1	8	9	13	0	43·8	66	2, 6	45	29	59	9	31	12	5	3	22	1	5	26	0	3	25	1	0	2	3	6	9	0	0	0	3	17
10	Tynemouth ...	0	7	19	5	0	54·6	0	8	13	10	0	45·3	66	8	42	30	57	9	33	29	1	2	27	0	1	30	0	1	29	0	0	0	2	6	7	0	0	3	1	15
11	Leuchars ...	0	5	21	5	0	53·8	2	9	12	8	0	41·4	65	2, 3	47	26, 29	55	2, 9	31	24, 25	7	4	25	0	5	25	1	4	26	1	0	0	2	0	19	0	1	0	1	23
12	Renfrew ...	0	5	20	6	0	53·6	5	5	15	6	0	41·9	65	4	46	29	57	9	24	25	8	8	20	1	4	26	0	6	23	1	1	2	1	2	15	0	0	2	1	17
	Eskdalemuir ...	0	8	19	4	0	51·1	5	11	10	5	0	39·6	63	7	42	29	54	9	25	12	9	11	18	0	8	23	0	7	23	0	0	0	0	3	20	0	0	0	0	23
13E	Stornoway	0	6	22	3	0	51·7	0	6	21	4	0	42·7	62	1	45	28	56	2	36	29	*	1	29	0	1	28	0	0	30	0	0	0	1	0	25	0	0	0	0	28
15	Aberdeen ..	0	9	19	2	1	53·0	2	11	10	8	0	42·6	69	2	43	26	53	5, 6	32	12, 29	6	6	22	0	5	23	1	5	23	0	0	0	1	2	15	0	0	1	2	19
18	Aldergrove ...	0	3	20	8	0	*	3	4	19	5	0	*	65	6	46	29	58	9	30	25	4	8	22	0	3	27	0	6	23	1	0	0	0	1	22	0	0	0	0	25
19	Birr Castle ...	0	1	19	11	0	55·8	3	7	14	7	0	43·7	67	6, 7	49	29	58	8	27	30	5	0	25	0	0	30	0	0	24	0	0	0	0	0	31	0	0	0	0	31
20	Valentia ... (Cahirciveen)	0	0	17	14	0	56·5	0	4	7	19	1	48·8	61	4, 6	51	29	60	7	33	30	3	2	26	0	3	26	0	3	28	0	0	0	0	0	29	0	0	0	0	26

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Mildenhall. Normal Temp. °F.	Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.	Mean. °F.	No. of Reports.
950	1760	46·6	48·2	62	46·7	62		
850	4740	37·9	39·2	62	39·3	62		
750	8040	30·1	31·8	62	32·0	62		
650	11750	19·4	21·1	62	22·1	62		
550	15980	5·7	7·5	62	9·5	62		

UPPER WINDS.

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

Station	Lympne. Height. Metres.	*No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Plymouth (Mt. Batten). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Renfrew. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Station. Height. Metres.
			kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.				
500 above ground.		109	28	46	29	4	0	20	8	8	4	0	0	9	6	3	0	0	0	52	17	28	6	1	0	500 above ground.
1000 above M.S.L.		90	25	39	17	6	0	15	4	8	2	1	0	9	4	4	1	0	0	38	9	17	8	4	0	1000 above M.S.L.
2000 „ „		50	17	22	9	1	0	9	0	6	2	0	0	2	1	1	0	0	0	18	0	11	5	2	0	2000 „ „
3000 „ „		27	9	15	2	0	0	6	1	4	0	0	1	1	1	0	0	0	0	3	0	1	2	0	0	3000 „ „
4000 „ „		11	6	6	0	0	0	2	0	0	1	0	1	0	0	0	0	0	0	1	0	0	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 — October 1941.

District	Stations.	SUNSHINE. Number of Days with Duration. Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration. Hours.	Date.	Total for past 12 months. Hours.	Difference from average. Hours.	Total for Month. Hours.	Difference from average. Hours.	Highest and Lowest Totals on record for Month. First year of record.	Highest. Hrs.	Year.	Lowest. Hrs.	Year.	RAINFALL. ‡Number of days with amount. 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hrs. mm.	Date.	Total for past 12 months. mm.	Difference from Average. mm.	Total for Month.‡ mm.	Difference from Average. mm.	Highest and Lowest Totals on record for Month. First year of record.	Highest. mm.	Year.	Lowest. mm.	Year.	Days with Thunder.	Days with Snow or Sleet.
1	London ... (Kew Obsy).	4	10	8	7	0	8·6	23	1380	−89	104	+8	1880	153	1921	50	1894	16	11	3	1	0	0	5	9	814	+208	19	−50	1856	156	1865	11	1921	0	0
	Croydon ...	3	11	10	7	0	9·0	2	1470	−55	115	+11	1922	184	1921	75	1934	18	7	4	2	0	0	7	9	780	+101	25	−51	1921	154	1939	17	1921	0	1
	Thorney Island...	Not recorded.											1881	182	1919	69	1934	21	3	5	2	0	0	12	4	*	*	36	−56	1871	201	1903	10	1897	0	0
	Lympne ...	3	10	9	6	3	10·1	3	1676	−89	130	+11	1921	184	1921	76	1934	9	12	7	3	0	0	14	23	797	+73	50	−49	1920	276	1939	7	1921	1	1
2	Shoeburyness ...	4	12	9	5	1	9·7	3	1505	−211	102	−21	1919	191	1920	77	1934	15	10	4	2	0	0	9	9	561	+58	29	−31	1920	173	1939	12	1931	2	1
	Gorleston ...	*	*	*	*	*	*	*	*	*	*	*	1908	183	1920	71	1932	14	5	6	5	0	1	26	9	685	+63	81	+7	1871	213	1892	7	1920	1	1
	Cranwell ...	3	13	11	4	0	8·8	12	1378	−160	100	−14	1921	160	1931	75	1937	13	7	9	1	0	1	41	9	769	+178	70	−3	1917	114	1924	14	1931	0	1
3	Birmingham ... (Edgbaston)	3	15	8	5	0	8·8	12	1182	−122	91	0	1887	149	1921	27	1894	12	5	9	3	2	0	21	17	918	+244	77	+6	1893	166	1903	12	1922	0	0
4	Ross-on-Wye ...	2	12	11	6	0	8·3	21	1384	−101	103	+4	1915	156	1919	37	1915	22	2	2	5	0	0	11	9	786	+69	48	−36	1859	216	1907	14	1904, 1922	1	1
5	Falmouth ... (Observatory)	5	13	6	5	2	9·9	3	1652	−58	108	−5	1881	159	1919	81	1886, 1924	17	4	7	3	0	0	7	9	1180	+73	42	−84	1871	274	1924	18	1931	0	0
7	Holyhead ...	Not recorded											1914	128	1922, 1931	61	1916	15	3	7	2	3	1	25	9	824	−63	111	+10	1871	265	1872	37	1879	2	0
8	Chester ... (Sealand)	7	12	4	8	0	8·2	12	1353	−23	95	+4	1928	127	1931	68	1940	16	5	3	6	1	0	23	9	703	+65	88	+14	1922	121	1932	11	1922	0	0
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*	*	*	*	11	6	3	4	0	1	28	9	760	+139	101	+25	1915	144	1939	31	1922	1	1
11	Leuchars ...	5	13	6	5	2	9·2	2	1172	−238	96	−10	1922	139	1926	63	1940	13	6	9	2	1	0	25	9	718	+65	78	+12	1922	158	1932	25	1931	0	2
12	Renfrew ...	11	8	6	6	0	8·4	20, 21.	1104	−85	88	+10	1921	102	1923	30	1940	16	4	5	4	2	0	25	9	908	−31	95	+8	1921	211	1935	51	1922	1	1
	Eskdalemuir ...	7	9	8	7	0	7·8	21	1125	−76	95	+12	1910	113	1931	48	1940	14	5	4	4	1	3	33	15	1376	−53	163	+26	1910	300	1928	46	1914	0	1
13B	Stornoway	6	13	5	7	0	8·6	11	1222	+7	97	+20	1881	135	1898	34	1921	8	5	10	7	1	0	18	13	1034	−232	100	−32	1870	259	1874	47	1915	0	0
15	Aberdeen ...	7	12	5	6	1	9·4	2	1154	−175	85	−9	1881	139	1923	47	1880	12	7	5	5	1	1	55	10	906	+158	123	+47	1871	169	1932	18	1895	0	4
18	Aldergrove ...	7	13	4	6	1	9·6	11	1150	*	87	*	1927	117	1939	54	1940	9	7	7	6	0	2	38	9	889	+51	141	+65	1926	146	1938	51	1939	1	0
19	Birr Castle ...	7	13	7	4	0	6·8	21	1167	−139	77	−13	1881	138	1899	45	1916	13	5	8	2	0	1	26	17	751	−76	68	−6	1862	185	1870, 1938	16	1869	0	0
20	Valentia ... (Cahirciveen)	8	9	6	6	2	9·2	4	1487	+119	103	+13	1880	166	1880	50	1916	14	6	5	5	1	0	25	12	1324	−90	87	−55	1866	272	1916	51	1905	0	0

MINIMUM SURFACE HUMIDITY.

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

Stations.	95 to 100 %	90 to 94 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	0 to 19 %
London (Kew)	0	0	3	4	8	11	4	1	0	0
Ross-on-Wye ...	0	1	1	9	9	10	1	0	0	0
Falmouth (Obsy.)	*	*	*	*	*	*	*	*	*	*
Renfrew ...	0	1	5	6	13	2	4	0	0	0
Eskdalemuir ...	0	3	4	4	7	10	3	0	0	0
Aberdeen ...	0	4	7	8	6	9	2	0	0	0
Valentia ...	2	0	6	9	12	2	0	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each type was recorded.

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)	0	31	0	0	0	0	0	0	0	0
Ross-on-Wye	1	30	0	0	0	0	0	0	0	0
Renfrew ...	6	25	0	0	0	0	0	0	0	0
Eskdalemuir	2	29	0	0	0	0	0	0	0	0
Aberdeen ...	5	26	0	0	0	0	0	0	0	0
Valentia ...	0	31	0	0	0	0	0	0	0	0

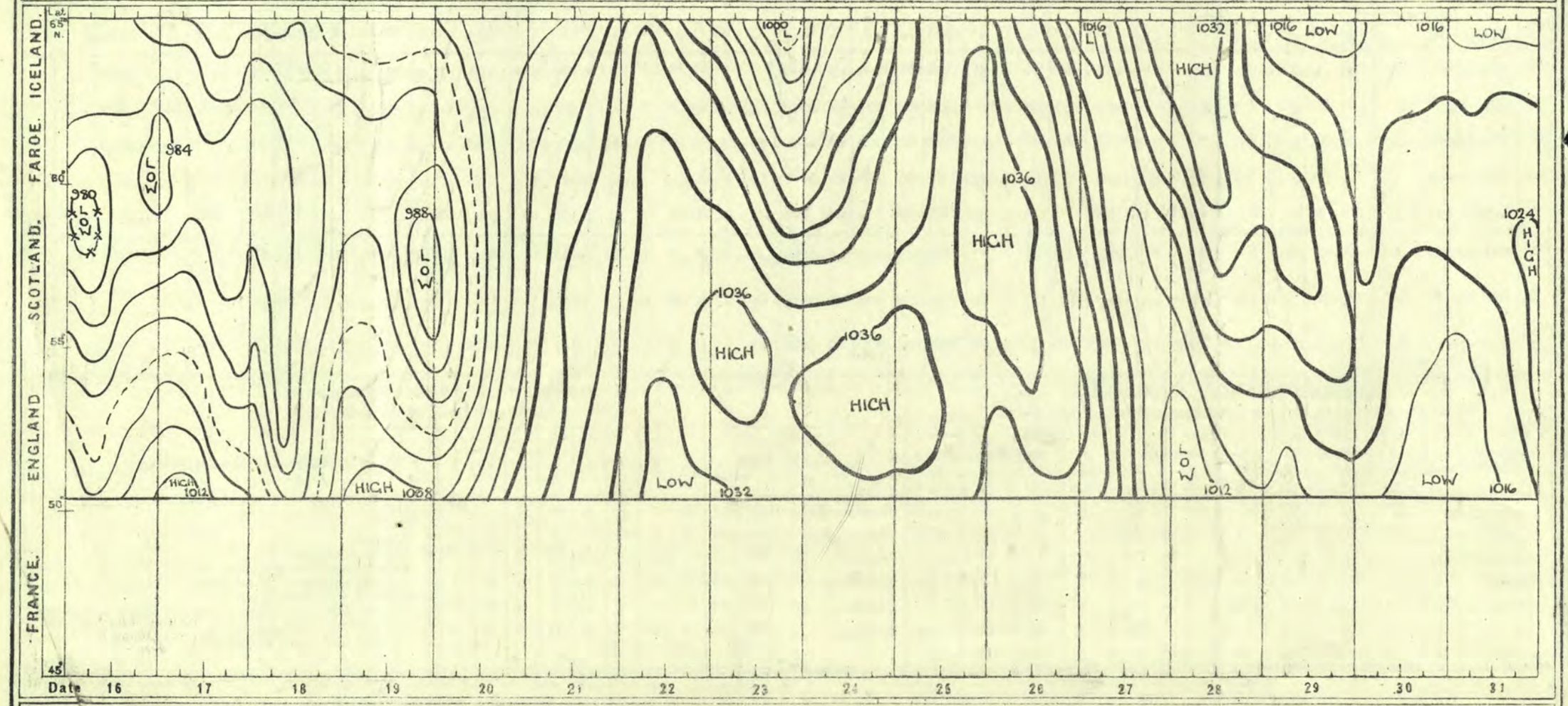
CODE for State of Ground.

0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry.
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
7 Covered with snow, less than 6 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 ..... October 1941

ISOPLETHS BASED ON SIX-HOURLY OBSERVATIONS.



* The diagram is obtained by drawing a line from Akureyri in Iceland to the south of France near Marseilles. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at 1h., 7h., 13h., and 18h. are plotted consecutively and joined to shew the variation of pressure from day to day at any point in the line. The line terminates at Lat. 66° N., Long. 18° W., in the north; at Lat. 44½° N., Long. 4° E., in the south.

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

G.591/4155. Wt. 8131. D. 6028. Gp. 948. 310. 11/41.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 1st October 1941.

No. 29168

SECRET

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	°F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1.	London (Kew)	1018·2	−14	WSW	2	c	61	65	8	8	7	8	2-3	3	2500
	Croydon	1018·7	−6	WSW	3	c	62	65	8	1	3	2	2-3	7-8	3000
	S. Farnborough	1018·4	−12	W'S	4	c	61	65	8	8	7	6	2-3	7-8	2500
	Boscombe Down	1018·7	−14	SW'W	4	c	60	65	8	5	-	-	3+	9+	2000
	Thorney Island	1019·6	−4	WSW	3	c	62	75	7	7	-	6	4-6	9+	2500
	Lympne	1019·0	−6	W	2	bc	60	65	8	1	-	8	2-3	4-6	3000
	Manston	1018·1	−10	W	3	zo	64	55	6	5	7	2	2-3	2-3	4000
2	Shoeburyness	1018·4	−12	W'N	2	bc	64	55	6	7	4	1	4-6	4-6	4000
	Felixstowe	1018·2	−10	W	3	c	56	45	8	1	4	-	Tr	7-8	4000
	Gorleston	1017·6	−8	W'N	2	bc	62	45	7	-	-	6	0	46	-
	Mildenhall	1017·0	−14	SW'W	3	c	64	75	8	1	4	5	4-6	7-8	2500
	Cranwell	1015·7	−12	SW	4	c	59	65	7	1	7	-	1	9+	2500
3	Birmingham	1016·1	−6	WSW	3	ir	54	85	7	6	7	-	9	9+	800
	Upper Heyford	1017·2	−10	SW'S	4	ir	55	65	8	5	7	-	7-8	10	2000
4	Ross-on-Wye	1016·8	−6	W'S	3	iR	55	92	8	9	-	-	7-8	7-8	2500
5	Hartland Point	1018·6	+0	W	4	bc	59	85	8	2	4	-	2-3	4-6	2500
	Bristol	1018·5	−6	SW	4	pr	61	75	7	8	3	-	7-8	9+	1800
	Portland Bill	1019·5	−6	SW	4	c	59	92	8	2	4	-	4-6	10	4000
	Plymouth	1020·5	0	W'N	4	pr	61	75	8	8	6	-	9	9+	2800
	The Lizard	1020·9	+4	W	5	c	60	85	8	8	6	-	7-8	7-8	1400
	Scilly (St. Mary's)	1021·3	+2	WNW	3	c/p	62	85	8	8	7	-	4-6	7-8	1800
	Guernsey														
6	Pembroke	1019·2	+20	NW'W	4	bc q	58	65	8	2	4	-	2-3	4-6	3000
7	Holyhead (Valley)	1016·3	+30	W	6	bc	59	65	8	2	-	-	4-6	4-6	3000
	Chester (Sealand)	1016·3	+8	WNW	6	pr	57	65	8	3	-	-	7-8	7-8	2000
8	Manchester	1015·1	0	W'S	5	pr	59	65	6	3	3	-	9+	9+	2000
10	Spurn Head	1015·6	−2	SW	3	c	60	75	6	5	5	-	4-6	9+	3600
	Catterick	1013·4	−12	SSW	3	c/r	53	85	7	8	3	-	4-6	10	2500
	Tynemouth	1013·5	−10	S	4	ir.	53	85	4	-	2	-	10	10	1500
11	St. Abbs Head	1011·0	−8	S	4	c/d	53	92	8	5	2	-	4-6	10	2500
	Leuchars	1010·7	+2	SW	2	c	54	85	7	5	7	-	4-6	9+	2200
12	Renfrew (Abbotsl.)	1011·5	+10	WNW	3	c/pr	57	65	8	3	4	1	4-6	7-8	2500
	Eskdalemuir	1011·5	+2	NW	3	rr	48	85	6	6	2	-	4-6	10	450
	Point of Ayre	1013·6	+18	WNW	5	c	54	92	8	2	7	3	2-3	3	2500
13A	Tiree	1011·6	+20	WNW	3	bc	57	75	8	2	-	-	2-3	2-3	2500
13B	Stornoway	1007·4	+16	SW	5	c	54	85	8	5	7	2	4-6	9	2500
15	Dalwhinnie	1011·0	+16	SW	3	c	54	65	8	8	-	-	7-8	7-8	2500
	Aberdeen	1010·6	+2	SSW	2	c	53	75	6	6	7	-	7-8	10	1800
	Wick	1008·7	+6	SSW	4	c	54	75	9	2	7	8	1	9+	2500
16	Sumburgh	1008·1	+2	SW'S	4	c	55	75	8	1	-	6	1	7-8	2000
17	Blacksod Point	1016·7	+26	W	5	bc	59	65	8	2	6	-	2-3	7-8	2500
18	Malin Head	1012·5	+26	W	4	c/pr	57	75	8	2	-	-	4-6	4-6	2500
	Aldergrove	1014·4	+24	WNW	3	c/pr	53	85	8	3	6	3	7-8	7-8	2500
19	Birr Castle	1017·3	+18	WNW	3	bc	57	75	8	8	-	4	4-6	4-6	1500
20	Valentia Obsy. †	1021·0	+18	WNW	4	bc	59	65	9	2	-	2	1	2-3	2500
	Roches Point	1019·7	+14	W'N	4	bc/pr	59	65	8	3	-	9	4-6	4-6	1500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0–12 (18)	Weather. (19)	°F. (20)	% Humid. (21)	Visibility. 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base. (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1.	London (Kew)	1019·9	+16	W'N	2	zo	58	75	6	8	-	-	2-3	2-3	2500	1	*
	Croydon	1018·4	+10	W'S	2	zo	57	85	6	5	6	-	4-6	7-8	3000	1	*
	S. Farnborough	1020·0	+18	NW'W	3	bc	59	85	8	8	4	-	2-3	2-3	2000	0	*
	Boscombe Down	1020·8	+24	NW'N	3	b	55	75	8	8	-	-	1	1	3000	0	*
	Thorney Island	1020·2	+10	W	2	b	57	92	7	8	6	-	Tr	1	2500	1	*
	Lympne	1020·0	+8	W	3	c	56	85	8	5	-	1	7-8	7-8	4500	0	§3
	Manston	1019·3	+8	WSW	1	c	56	85	7	5	7	-	4-6	7-8	6000	1	*
2	Shoeburyness	1018·9	+10	WSW	2	ir	55	75	8	6	7	-	4-6	7-8	1500	0	*
	Felixstowe	1018·3	+14	W'S	4	pr	60	75	7	8	-	-	3+	9+	2000	1	2
	Gorleston	1017·3	0	W NW	4	PR	61	92	6	9	-	-	10	10	600	0	3
	Mildenhall	1018·5	+20	W	3	bc	53	97	7	8	-	-	4-6	4-6	1500	1	*
	Cranwell	1018·0	+22	W'N	4	b	52	75	7	4	-	-	Tr	Tr	2500	1	*
3	Birmingham	1019·0	+20	WNW	2	b	54	55	7	5	7	-	Tr	1	1500	1	*
	Upper Heyford	1019·7	+28	W'N	3	b	52	75	9	4	4	-	Tr	1	2500	1	*
4	Ross-on-Wye	1020·4	+20	W	3	b	55	65	9	4	7	-	1	1	4000		*
5	Hartland Point	1021·8	+18	NW	3	bc	57	65	8	1	4	-	2-3	4-6	2500	0	4
	Bristol	1021·4	+30	W	2	b	53	75	7	8	3	-	Tr	1	2500	1	*
	Portland Bill	1020·8	+14	W	4	bc	59	85	8	5	-	-	4-6	4-6	4000	1	4
	Plymouth	1023·0	+16	NW	3	c	56	75	8	1	-	6	Tr	7-8	2500	0	3
	The Lizard	1023·2	+16	NW	3	bc	56	85	8	2	4	-	4-6	4-6	1500	0	3
	Scilly (St. Mary's)	1023·5	+2	NW'N	3	c	58	85	8	8	5	9	2-3	3	1200	1	4
	Guernsey																
6	Pembroke	1022·1	0	W	4	c	58	75	8	8	4	-	4-6	7-8	3000	1	4
7	Holyhead (Valley)	1019·3	+20	W	4	c	56	65	9	8	6	2	4-6	7-8	3000	1	4
	Chester (Sealand)	1018·7	+22	W'N	3	bc	55	65	8	9	4	-	2-3	4-6	1500	1	*
8	Manchester	1018·4	+20	W	2	zo	53	85	6	8	-	3	4-6		2500	1	*
10	Spurn Head	1015·9	+2	W'N	6	bc q	55	75	7	8	4	1	2-3	4-6	4000	0	3
	Catterick	1016·9	+20	W	2	bc/r	51	75	8	3	6	-	1	2-3	1500	1	*
	Tynemouth	1015·4	+22	W	3	c/r	51	92	6	8	4	-	4-6	7-8	2200	1	
11	St. Abbs Head	1013·7	+12	W	3	bc	54	65	8	4	4	-	2-3	2-3	2500	0	2
	Leuchars	1013·3	+22	W	2	b	53	85	8	4	-	-	Tr	Tr	5500	1	*
12	Renfrew (Abbotsl.)	1015·6	+30	W	3	bc	53	75	8	3	4	-	4-6	4-6	2500	1	*
	Eskdalemuir	1015·8	+26	W	1	bc/pr	49	85	8	5	-	-	4-6	4-6	1500	1	*
	Point of Ayre	1017·4	+14	NW	3	c	55	92	8	9	-	-	9	9	3500	1	3
13A	Tiree	1014·6	+20	W'N	4	bc	54	85	8	8	-	-	4-6	4-6	2500	0	5
13B	Stornoway	1010·5	+16	SW	4	c	53	85	8	5	7	4	2-3	7-8	2500	1	3
15	Dalwhinnie	1014·6	+24	SW	3	bc	48	75	8	5	-	-	4-6	4-6	2500	1	*
	Aberdeen	1012·7	+18	SWW	2	zo	53	85	6	4	1	-	1	1	3200	1	2
	Wick	1011·0	+18	WSW	3	bc	52	75	8	8	6	-	4-6	4-6	2500	0	*
16	Sumburgh	1009·8	+10	SW	4	b	52	92	8	8	4	1	Tr	1	4000	1	*
17	Blacksod Point	1019·5	+16	W'S	4	c	56	75	8	-	7	-	0	7-8	-	0	3
18	Malin Head	1016·2	+22	W	5	c	56	65	7	3	-	-	7-8	7-8	2500	0	5
	Aldergrove	1017·8	+22	WNW	3	c/pr	55	75	8	8	4	1	7-8	9	2500	1	*
19	Birr Castle	1020·8	+14	W	1	bc	55	65	8	-	4	-	0	2-3	-	1	*
20	Valentia Obsy. †	1023·3	+14	WS	3	c	57	85	8	2	3	2	Tr	3+	2500	1	3
	Roches Point	1022·5	+22	W'N	3	bc	57	75	8	5	-	5	1	4-6	2500	1	4

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—13h. 30th. (37)	Weather. 13h.—18h. 30th. (38)	Weather. 18h. 30th to 1h. 1st. (39)	Weather. 1h.—7h. 1st. (40)
1.	London (Kew)	cmozowc	cprobcz	bmow	bbcmow
	Croydon	cmozowc	cpr, bcz	bmowbcmo	bcmobmo
	S. Farnborough	cmobcc	cprobc	bcbwbc	bcwbmobc
	Boscombe Down	cfgmoc	cprobcb	bwbc, bcmo	bbcmcfg
	Thorney Island	cmofgc	cprob	bmobcw	bcwbbcmo
	Lympne	cmwfoc	bcc	cbmow	bmow
	Manston	cmobcbzo	c	b	bmow
2	Shoeburyness	cbcmozo	bczoc ir	ir pbw	bwmo
	Felixstowe	cmbcmo, vy	bcvycpr mcpr	bbmo	bmow
	Gorleston	bc	bccycpr	berob	bzow
	Mildenhall	cmwbcmc	cprocbc	bcbmow	bmowbcmw
	Cranwell	bcmoc	r	bwbmo	bbcmo
3	Birmingham	bccir	cbc	b	bbc
	Upper Heyford	r	cPrmobc	bbmobcmo	bcmo
4	Ross-on-Wye	pr	bcc		bwbcmo
5	Hartland Point	cpbc	bc	cbc	bcc
	Bristol	pr	cpro, b	bbcmow	bmofgbcw
	Portland Bill	bc	bc	bc	bcc
	Plymouth	cmo, pro	cprobbc	bccbcmo	bmowbc
	The Lizard	bcc	c	bccbcw	bccw
	Scilly (St. Mary's)	cpo	c	cbc	bcwo
	Guernsey				
6	Pembroke	cbcq	bc	bc	bcc
7	Holyhead (Valley)	cbccpr, bc	bc	bcbbcw	wbcc
	Chester (Sealand)	cmo, cRRpr	bcprobc	c, cmow	cmow
8	Manchester	rrpro q	pr. prq	pr	cmobcmow
10	Spurn Head	bc	bcqpr	b	bbcmo
	Catterick	pr	cb	bbw	bfgcw
	Tynemouth	r	ocir.	cbc	bcmo
11	St. Abbs Head	ir	cirobc	bbc	cir
	Leuchars	bccir.c	cbcb	bbc	bcir.rrmo
12	Renfrew (Abbotsl.)	rrrorpro	bc	bcobc	bcc.ir.c
	Eskdalemuir	rrRR	cirobcpr	bcc	cir.c
	Point of Ayre	rorc	bcpre	bc	bcc
13A	Tiree	prbc	bc	bcc	cir.
13B	Stornoway	cpr	cpr	c	cpr
15	Dalwhinnie	o'ir.c	c		cir.o
	Aberdeen	ccz.	ir.cbcbcbzobz.b		bbcir.cz.
	Wick	c	cbccbc	bcbbc	bcc.ir.c
16	Sumburgh	bccbc	bccbcb	bbcc.proc b	bbcc.proc
17	Blacksod Point	bcq	bcc	cq	cq
18	Malin Head	bcprobc	c	cpr.c.cicl.c	cpr.pr.c
	Aldergrove	pr	bccpr.c	cb, cmo	ir.mcir.mo
19	Birr Castle	cbc	bc		bcc
20	Valentia Obsy. †	bcprobc	bcc	bwbcw	cwbcw
	Roches Point	pr.bc	bc	bcw	bc

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.

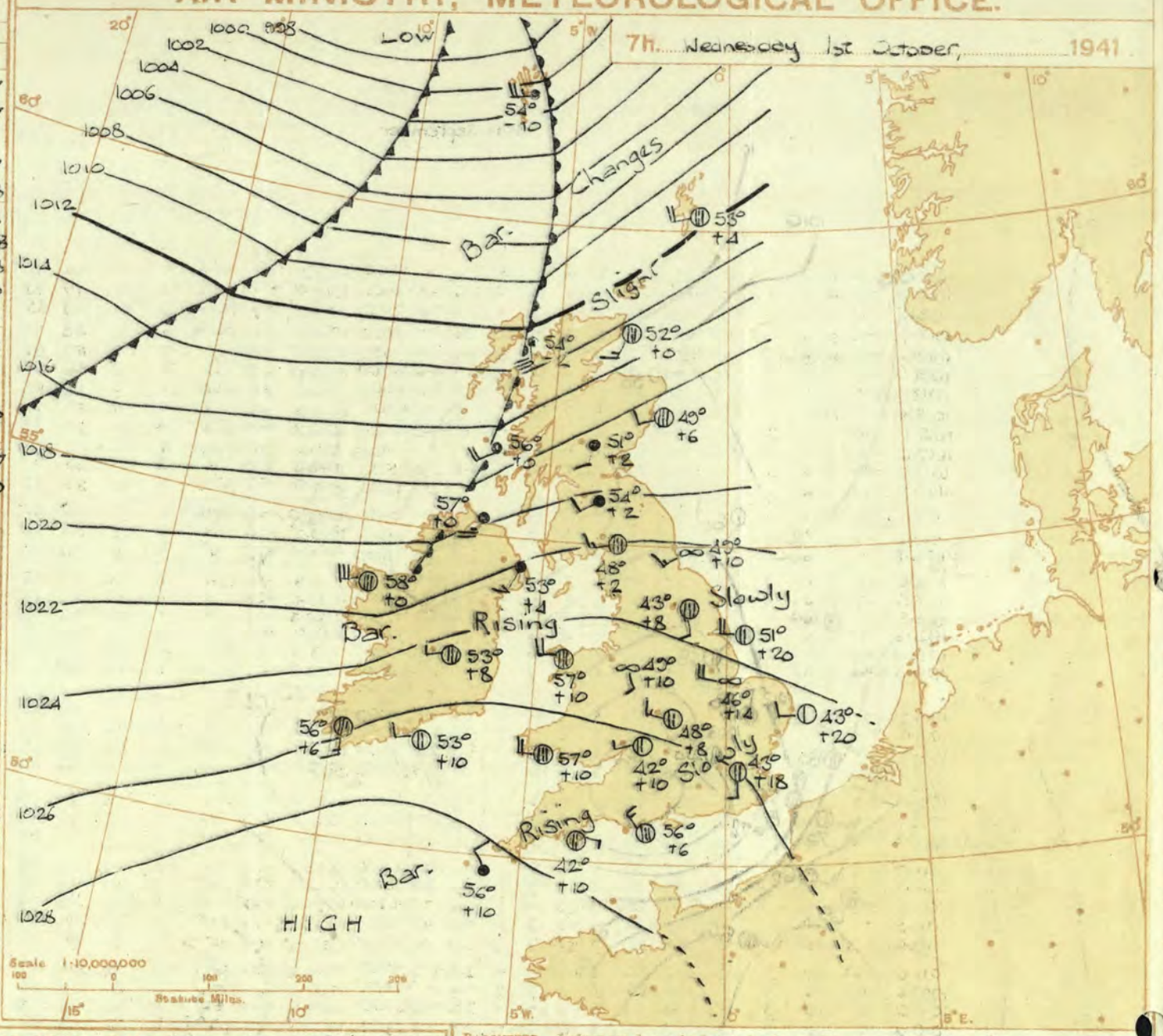
Abridged observations of additional stations in the AVIATION WEATHER CODE

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
	13h. G.M.T. 30th September			18h. G.M.T.			01h. G.M.T. 1st October			07h. G.M.T.		
109	17	01951	17484	24	02854	12325	8-	01853	18383	5-	02887	12427
115	87	10844	20586	54	81844	20585	54	81844	22485	87	81844	20487
203				9-	81935	20685	5-	02848	20528			
206	71	02963	22324	40	01965	22315	50	00862	22213	57	61955	20387
210	13	02863	20326	40	01853	18213	53	01863	19214	57	22974	18368
220				80	25856	26386				5-	58308	19548
230	3-	10854	55484	83	02356	22487	8-	02858	22428	52	22856	20568
245	81	61754	18368	40	00941	21281	00	01880	24215	57	62762	22168
260	57	02855	20366	54	01863	24183	53	02764	20316	57	22775	20388
278	82	01954	25464	84	00851	26381	07	02780	21428	57	22741	20368
279	84	81747	22367	24	01853	24383	40	01763	24214	52	02745	22388
285				27	01744	24084				57	02744	26427
288	52	61556	15267	8-	01853	22323	50	00762	13202	57	02843	18207
575	2-	25854	27584	5-	01774	24484	57	05654	22325	57	02766	22428
301	9-	81644	26488	28	01953	26513	20	01853	26413	5-	02758	24418
321	82	05655	20367	06	05690	24211	00	05690	22101	09	05590	23207
299				57	01743	23213	00	00790	23300	54	01753	23303
292	87	22654	18364	36	00852	23283	07	00790	22202	5-	02777	18217
310				--	01644	24514				--	02636	24416
614	87	82344	20365	44	05662	24282	03	05690	22214	09	05590	24225
333	2-	01844	26464	80	01962	23314	03	01890	30215	57	02974	20317
334	--	61645	26386	--	01762	26304				--	22665	20315
340	30	01964	23414	36	00951	26211	00	01890	24114	07	02890	15115
136	77	02755	20317	24	01742	23464	04	05690	22201	03	05590	23102
336	51	51763	24457									
350				57	00752	26283						
368	84	01844	57414	53	01852	28215	20	05590	20015			
379	83	25855	22487	04	01890	26202	04	01790	26304			
390	17	02753	22425	24	05652	24282	00	05590	24203	03	05690	24103
382	57	02846	20427	44	00861	26401	00	00790	26202	53	05671	25215
438	54	01863	22414							53	01863	31213
430				26	05651	26282	03	00790	24113			
409	27	01754	22515	20	02942	30386	50	01741	24113	03	02890	16116

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 1st October, 1941



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

FRONTS or boundaries between masses of air of different 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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 1st October, 1941
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light or moderate westerly wind; fair or fine; fog in places in early morning; average day temperature.
7 North Wales ... 8 N.W. England . 9 N. Midlands ... 10 N.E. England	Moderate W.-S.W. wind, fresh locally; mainly cloudy; occasional rain, mostly slight; rather 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	Fresh to strong S.W. wind, perhaps gale at times on the coast; cloudy or dull; rain at times; mainly mild.
16 Orkneys and Shetlands 17 N.W. Ireland 18 N. E. Ireland	Fresh S.W. winds, strong locally; mainly cloudy; some occasional rain; average temperature.
19 S. E. Ireland 20 S. W. Ireland	Moderate to fresh S.W. winds; mainly cloudy; some drizzle or light rain chiefly in the West; average temperature.

GENERAL INFERENCE.

A deep depression to north of Iceland is moving northeast quickly, and a trough of low pressure will move east over our northern districts. An anti-cyclone centred over the Bay of Biscay is spreading northeast. A secondary is expected to develop in Mid-Atlantic, and move rapidly northeast to maintain rain at times with strong winds and perhaps local gales in the North, but weather will continue fair in the South.

FURTHER OUTLOOK.

Fair in the South and East; generally unsettled in the North and extreme West.

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

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

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Wednesday 1st October

1941.

Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER Symptoms :— ◯ 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. (Σ) Thunderstorm. Σ Slight haze. ∞

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 1st October 1941.

No. 29168

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1023·5	+10	W	2	bc	47	85	6	-	4	-	0	2-3	-
	S. Farnborough	226	1024·2	+12	NW	2	bc	44	92	8	-	-	4	0	4-6	-
	Boscombe Down	417	1024·6	+8	NW'W	2	Zo	43	97	7	-	-	2	0	4-6	-
	Thorney Island	10	1024·2	+12	NW'W	2	bc	46	97	7	-	-	6	0	4-6	-
	Lympne ...	346	1023·4	+14	WNW	2	Zo	47	92	6	-	-	8	0	1	-
	Manston ...	154	1022·9	+14	W	1	Zo	51	85	6	-	-	5	0	1	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1021·6	+14	WNW	4	Zo	50	85	6	-	4	-	0	Tr	-
	Gorleston ...	5	1020·7	+10	W	3	Zo	56	92	6	-	-	-	0	0	-
	Mildenhall ...	19	1022·0	+10	W	2	Zo	44	97	6	-	3	-	0	1	-
	Cranwell ...	240	1022·0	+14	W	3	Zo	46	92	6	-	4	-	0	Tr	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1023·8	+14	W	1	Zo	43	92	6	-	7	1	0	2-3	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1025·0	+8	WNW	3	bc	57	75	8	1	4	5	1	4-6	4000
	Bristol ...	209	1025·2	+10	-	0	Zo	46	97	6	-	4	2	0	4-6	-
	Portland Bill ...	32	1024·5	+14	W	3	bc	56	85	8	1	-	-	2-3	2-3	4000
	Plymouth ...	82	1026·4	+10	E	1	Zo	45	97	6	-	-	2	0	2-3	-
	The Lizard ...	240	1026·4	+10	NW	2	bc	51	92	8	8	-	-	2-3	2-3	2400
	Scilly (St. Mary's)	163	1026·8	+6	NW	2	bc	54	97	8	8	4	-	4-6	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	1025·0	+10	WNW	4	bc	56	75	8	1	4	2	1	4-6	3000
7	Holyhead (Valley)	26	1023·1	+12	NW	1	bc	53	85	8	-	3	6	0	4-6	-
	Chester (Sealand)	16	1022·4	+12	WSW	1	c	49	85	6	4	-	2	1	7-8	2500
8	Manchester ...	70	1022·8	+16	SSW	2	c	45	92	6	2	6	6	1	9	3000
10	Spurn Head ...	29	1020·4	+10	WNW	5	Zo	52	85	6	-	-	-	0	0	-
	Catterick ...	175	1021·4	+20	-	0	bc	46	85	7	-	-	5	0	2-3	-
	Tynemouth ...	108	1019·6	+14	NW	4	bc	48	92	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	1018·4	+22	W	4	bc	51	75	8	4	4	-	2-3	2-3	2500
	Leuchars ...	36	1017·9	+16	WSW	2	bc	46	92	8	5	4	2	Tr	4-6	4000
12	Renfrew (Abbotsl.)	19	1019·3	+10	SW'S	2	c	48	92	7	5	3	1	4-6	7-8	3500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1021·4	+12	W'N	4	bc	54	85	8	-	4	6	0	4-6	-
13A	Tiree	22	1016·5	+2	SW'W	3	c	53	85	8	3	*	*	7-8	7-8	2500
13B	Stornoway ...	80	1013·4	+2	SSW	4	c	53	92	7	5	7	-	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1014·1	+8	SW	3	c	49	92	8	5	7	8	2-3	7-8	1800
16	Sumburgh ...	30	1011·6	+8	SW	3	bc	53	92	8	8	3	1	1	2-3	2200
17	Blacksod Point	18	1020·5	+2	W	6	cg	57	85	8	-	5	-	0	7-8	-
18	Malin Head ...	84	1018·5	+6	SSW	5	c	56	92	7	9	-	-	9	9	1500
	Aldergrove ...	268	1021·4	+6	SSW	2	Zo	51	85	6	5	7	-	4-6	9+	3000
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1025·2	+6	SSW	3	c	55	92	8	5	3	-	7-8	7-8	2500
	Roches Point	22	1025·4	+6	NNE	2	bc	47	97	8	-	-	5	0	4-6	-

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1026·6	+2c	SW'W	2	Zo	48	92	6	5	3	9	2-3	7-8	4000	1	*
1026·3	+18	S	1	bc	43	97	6	-	4	-	0	4-6	-	1	*
1026·6	+12	W'N	1	bc	41	97	7	-	7	-	0	4-6	-	1	*
1027·4	+18	-	0	fg	43	97	6	-	4	2	0	4-6	-	0	*
1026·8	+16	NW	2	Zo	43	92	6	-	5	5	0	4-6	-	0	*
1025·9	+14	NW'N	1	c/f	39	97	6	-	3	-	0	Tr	-	0	§
1025·5	+16	WNW	1	Zo	48	92	6	5	4	-	Tr	1	800	0	*
1025·4	+18	W'N	1	Zo	45	92	5	-	4	-	0	1	-	1	*
1024·3	+18	WNW	3	Zo	47	92	6	5	-	-	Tr	Tr	4000	1	2
1024·1	+20	W	2	b	43	92	5	-	-	1	0	1	-	1	2
1024·8	+14	SW'W	2	Zo	42	97	6	-	7	1	0	2-3	-	1	*
1024·4	+14	W'N	4	Zo	46	92	6	-	3	1	0	4-6	-	0	*
1025·9	+8	WNW	3	bc	48	92	7	-	3	-	0	4-6	-	1	*
1026·2	+12	W'S	1	bc	45	97	7	-	3	1	0	4-6	-	1	*
1026·1	+10	WSW	1	bc	42	97	8	-	5	6	0	4-6	-	1	*
1027·1	+12	WNW	3	c	56	85	8	1	4	4	1	7-8	2900	0	3
1027·2	+10	-	0	Zo	48	92	7	-	4	6	0	7-8	-	1	*
1026·4	+6	NW	3	c	56	92	8	1	4	-	4-6	7-8	4000	1	3
1028·8	+14	ESE	1	bc	42	97	8	-	3	4	0	4-6	-	1	2
1027·8	+10	NW	2	c	54	92	8	4	-	-	7-8	7-8	1500	1	3
1028·4	+10	NW'N	2	pr	56	92	8	8	7	-	7-8	10	1200	1	4
1027·0	+10	W	4	c	57	85	8	2	4	1	4-6	7-8	3000	1	3
1024·5	+6	SW	4	c	56	85	8	5	7	2	2-3	9	4500	0	2
1024·6	+10	SE'S	1	Zo	49	85	6	5	7	-	4-6	9+	6000	1	*
1025·4	+18	S'W	2	c	47	92	6	5	5	-	4-6	9+	2500	0	*
1023·0	+20	W	4	bc	51	92	6	1	7	1	2-3	4-6	5700	0	3
1023·3	+8	S'E	1	c	43	97	8	5	3	-	4-6	9+	5000	1	*
1022·0	+10	SW	3	Zo	49	92	5	8	-	-	7-8	7-8	2500	1	2
1019·3	+2	W	4	ir	48	92	8	5	4	-	7-8	9	2500	1	2
1018·5	+2	WSW	2	rr	51	97	6	5	2	-	Tr	10	1500	1	*
1020·0	+2	SW	2	c/r	54	85	7	5	-	-	10	10	5000	1	*
1021·1	+2	SWW	3	c	48	92	6	5	-	-	9	9	1500	1	*
1022·7	+4	WSW	3	c	54	97	8	5	7	-	Tr	9+	1000		*
1016·5	0	SW	4	dd	56	97	6	-	2	-	10	10	1500	1	
1012·6	-2	S'E	6	pr	54	92	7	5	7	-	7-8	10	2000	1	3
1019·3	+2	SSW	2	ir	51	85	8	5	2	-	7-8	10	1500	1	*
1018·1	+6	SW	2	c/r	49	85	6	5	7	-	9	9+	3100	1	1
1014·5	0	SW'S	3	c	52	85	8	5	7	-	9+	10	4500	1	*
1012·6	+4	SW'W	4	c	53	92	8	5	-	-	9	10	1500	1	*
1020·8	0	WSW	6	c	58	92	8	6	-	-	10	10	1500	0	4
1018·8	0	SSW	5	pr	57	92	6	3	-	-	9+	9+	800	1	5
1022·0	+4	SW'S	3	ir	53	92	6	5	7	-	7-8	10	1600	1	*
1024·3	+8	WSW	1	c	53	92	8	5	1	-	7-8	9	2500	1	*
1025·9	+6	S	3	c	56	92	8	5	3	-	7-8	7-8	2500	1	3
1026·6	+10	WSW	2	bc	53	97	8	5	-	5	4-6	4-6	2500	1	3

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 30th Hrs. (36)
62	44	31	0·1	Tr	4·8
64	41	38	Tr	-	5·2
64	38	29	Tr	Tr	3·9
62	42	35	0·1	Tr	3·3
65	41	35	0·4	Tr	*
64	38	31	-	-	5·9
65	45	41	-	Tr	6·6
65	44	35	Tr	0·1	5·4
65	47	43	Tr	Tr	6·6
64	43	40	Tr	1	*
66	41	32	2	Tr	5·8
61	43	41	1	-	5·0
59	46	41	5	-	4·8
61	41	39	1	-	*
	41	36		-	5·
59	55	51	Tr	-	5
63	44	31	Tr	-	5·5
60	53	*	-	-	*
62	41	39	Tr	-	3·7
63	53	*	-	-	5·3
62	53	*	0·3	-	4·5
59	56	*	-	-	6·5
	50	44	5	-	*
61	47	39	3	-	6·2
59	43	40	4	Tr	*
	50	*	Tr	-	3·5
55	40	42	1	-	1·2
	47	45	3	-	*
54	44	*	3	Tr	*
59	45	39	-	1	3·1
59	48	38	0·6	Tr	4·6
55	43	38	12	0·4	1·7
59	50	*	2		2·9
59	52	*	0·1	1	8·0
58	50	*	1	0·6	7·4
56	45	37	0·1	0·3	7·8
56	42	33	Tr	0·1	
59	53	*	-	0·1	*
	51	47	-	Tr	4·7
60	55	*	0·2	Tr	*
58	50	*	0·3	2	6·6
	49	43		Tr	5·1
62	48	43	-	-	7·8
60	54	46	Tr	Tr	7·6
62	47	*	Tr	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cmoZowc	cprbcZo	bmcmow	62	44	31	0·1	Tr	4·8	*	*	6
Croydon	217	cmoZowc	cprbcZo	bmcwbno	64	41	38	Tr	-	5·2	*	*	6
Greenwich (Royal Observatory)...	149	bc	bccpb	cbbubxno	64	41	29	Tr	Tr	4·6	63	74	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	63	44	40	—			66	83	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	63	45	38	-	-		71	79	*
Camden Square	110	bc	c	*	64	44	38	Tr	-	*	*	82	*
Kensington	80	bcc	bc	*	64	44	33	-	-		79	83	*
Hampstead Observatory	450										*		*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 30th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·2	7-8h 30th	<0·1	11-16h 30th

FOREIGN OBSERVATIONS.

Stations.	Evening of 30th September. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 1st October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	991·5	SE	3	c	50	993·6	SW	7	c/pr	46
Lisbon (18h and 07h)	1018·9	NNE	3	c	72	1001·9	NE	4	b	70
¶Madrid (18h and 07h)						908·1	NE'E	2	bc	54
Cairo (Heliopolis) (18h and 06h)						1019·2	NE	2	b	70
Toronto (13h and 01h)										
Washington (13h and 01h)										

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
75	*	-	0·2
	54		-
	62		-

¶Pressure at 1,000 dynamic metres level. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 6 h. † Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

Objects not visible at	
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION SECRET

Thursday 2nd October 1941.

No. 29,169

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1027.4	0	WNW	2	z	58	65	6	8	7	-	9	9+	4000
	Croydon ...	1027.1	-2	W'S	2	c	48	65	7	1	7		2-3	9+	3500
	S. Farnborough	1017.5	-2	W'N	3	c	59	65	8	7	7	-	2-3	9+	3000
	Boscombe Down	1027.4	-4	NW	3	c	60		8	1	7		Tr	9	3000
	Thorney Island	1027.8	+2	WNW	2	c	60	65	7	1	7	8	1	9+	2500
	Lympne ...	1026.8	-2	SW	1	c	58	75	7	2	7	-	4-6	10	2500
	Manston ...	1026.9	+4	WNW	2	zo	57	75	6	5	7	-	Tr	10	2000
2	Shoeburyness ...	1026.8	+2	WNW	2	c	59	65	6	5	3	-	4-6	10	2500
	Felixstowe ...	1026.0	+4	WNW	3	c	57	75	7	1	3	-	Tr	10	2500
	Gorleston ...	1025.2	+4	WNW	3	zo	59	65	6	8	-	-	9	9	2200
	Mildenhall ...	1026.2	+4	W'N	3	zo	59	85	6	5	-	-	10	10	7200
	Cranwell ...	1025.7	+2	W	4	zo	58	75	6	5	7	-	4-6	10	3500
3	Birmingham	1027.0	+4	WSW	2	c	54	92	6	5	7	-	9	10	2500
	Upper Heyford	1026.8	+2	W	3	c	59	65	7	7	3	8	2-3	9	2500
4	Ross-on-Wye ...	1026.5	-4	SW'S	2	c	59	75	8	6	7	-	1	9+	2500
5	Hartland Point	1027.8	-4	W	3	c	60	85	8	1	4	6	2-3	7-8	2000
	Bristol ...	1028.0	-2	W	4	c	60	75	7	-	3	-	Tr	9+	3000
	Portland Bill ...	1028.0	-4	W	3	c	60	85	8	4	7	8	7-8	10	4000
	Plymouth ...	1029.0	-4	WSW	3	c	59	85	7	8	-	-	9	10	3000
	The Lizard ...	1028.9	0	WNW	3	bc	62	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1029.6	+2	W'N	2	c	68	75	6	8	4	3	4-6	9	1500
	Guernsey ...														
6	Pembroke ...	1027.5	+4	W'S	4	bc	60	97	8	2	4	1	4-6	4-6	3000
7	Holyhead (Valley)	1025.6	+6	SW	4	c	59	75	8	5	7	-	2-3	9+	3000
	Chester (Sealand)	1025.7	+6	WNW	2	c	61	65	8	1	3	-	4-6	9+	2000
8	Manchester ...	1026.1	0	W'S	1	c	58	75	6	5	7	-	4-6	9	2500
10	Spurn Head ...	1024.9	+10	WSW	3	zo	56	85	6	5	-	-	10	10	4000
	Catterick ...	1023.5	-2	W	3	c	62	65	8	5	7	-	7-8	10	4000
	Tynemouth ...	1023.3	-4	W	3	zo	61	65	6	8	-	-	9+	9+	2500
11	St. Abbs Head	1019.7	-6	W	4	c	60	75	8	5	7	-	4-6	7-8	2500
	Leuchars ...	1019.5	+2	WSW	5	c	59	85	7	5	7	-	7-8	9+	2500
12	Renfrew (Abbots I.)	1021.3	+8	SW	3	dodo	56	92	5	6	2	-	4-6	10	800
	Eskdalemuir ...	1022.5	+6	SW'S	3	roro	54	85	7	-	2	-	10	10	800
	Point of Ayre ...	1023.9	+6	W	5	c	59	92	8	5	2	-	9	10	3000
13A	Tiree ...	1013.4	+14	W'S	3	c	58	97	6	5	1	-	9+	10	700
13B	Stornoway ...	1015.6	+14	SW	5	c	62	85	8	2	6	5	2-3	7-8	2500
15	Dalwhinnie ...	1019.9	+4	SSW	2	ido	55	92	7	5	-	-	10	10	1500
	Aberdeen ...	1018.0	+4	SW'S	3	c	59	85	7	5	7	8	1	7-8	5500
	Wick ...	1016.0	+10	SW	4	c	60	85	8	5	7	2	4-6	9+	4000
16	Sumburgh ...	1012.9	+2	SW'W	4	c/r	54	97	7	5	7	-	9+	10	400
17	Blacksod Point...	1022.7	+8	SW'W	5	c	61	92	7	5	-	-	10	10	800
18	Malin Head ...	1020.7	+10	W	4	id	59	97	5	3	-	-	9+	9+	450
	Aldergrove ...	1023.6	+6	SW'S	3	ido	58	92	6	5	2	-	9	10	2000
19	Birr Castle ...	1025.6	+2	W	3	c	62	85	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1027.3	+2	SW'W	4	c	63	85	8	2	-	3	4-6	9+	2500
	Roches Point ...	1027.4	0	W	3	c	63	75	8	2	-	5	4-6	7-8	2500

OBSERVATIONS at 18h. G.M.T. 1st October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 1st (37)	Weather 13h.–18h. 1st (38)	Weather 18h. 1st to 1h. 2nd (39)	Weather 1h.–7h. 2nd (40)
London (Kew)	1028.3	+6	WSW	1	z	57	85	5	5	-	-	9+	9+	4000	1	*	beemwcz	cizmcm	bcmo bfbo	bFFew
Croydon	1028.0	-6	-	0	zo	55	85	5	-	7	-	0	9+	-	1	*	bcmzcz		cm bmw	bmwbm
S. Farnborough	1028.4	+4	SW'W	1	zo	57	75	6	5	3	-	2-3	9+	5700	0	*	c	cz	czofwm	cbmw
Boscombe Down	1028.6	+8	-	0	c	57	85	8	5	7	-	2-3	9+	3000	0	*	bcmfgbc	c	cbcwfg	bfgfFbFF
Thorney Island	1028.7	+4	W	1	c	59	85	7	-	7	-	0	10	-	0	*	bcmc	co	promcbmo	bmobmfgw
Lympne	1028.2	+6	-	0	z	54	85	6	5	-	-	10	10	7500	0	§	bcmc	c	mf	b
Manston	1028.3	+6	-	0	zo	54	85	6	5	7	-	9	9+	2000	0	*	cm	cm	cbcbfgmw	bc
Shoeburyness	1028.2	+8	WNW	1	c	56	85	5	-	7	-	0	10	-	0	*	bmcm	irocm	cbcmo	bmwf
Felixstowe	1027.4	+12	W	2	z	57	75	6	5	7	-	7-8	9+	5500	1		bmcmc	ccm	cmoomo	bmwbfoF
Gorleston	1027.1	+12	SW'S	1	z	57	85	6	5	-	-	9	9	1300	0		bcm	bcc	cbcbzo	bbczw
Mildenhall	1027.6	+8	S'W	1	zo	57	92	6	-	7	1	0	9+	-	0	*	bcmcm	cmm	cbmwbF	bfbmbfw
Cranwell	1027.1	+14	W'S	3	zo	55	85	6	-	7	2	0	9	-	1	*	cm	cmccm	bmo	bmcw
Birmingham	1027.5	+6	W	1	z	57	85	6	5	7	-	9+	10	2500	1	*	bco	oz	obc	bcc
Upper Heyford	1027.6	+4	SW	2	c	56	85	7	7	7	-	2-3	9+	2000	1	*	bcmbcc	c	cbcmobcf	bcfbFe
Ross-on-Wye	1027.2	0	NW	1	bc	60	85	8	5	-	-	2-3	4-6	2500	1	*	c	c	c	ccmo
Hartland Point	1028.5	+2	W	3	c	59	85	8	5	4	6	7-8	9+	2000	0		c	c	c	c
Bristol	1028.2	+4	W	3	c	58	85	7	4	3	-	1	9+	2500	1	*	befgwc		ccbcmo	bcbmowjf
Portland Bill	1028.2	+2	W	3	c	60	85	8	5	7	-	7-8	9	4000	1		c	c	cbc	bcc
Plymouth	1029.2	+2	NW	2	c	59	75	7	5	7	8	1	9	3000	0	2	bcmc	c	cmo	cmo
The Lizard	1029.6	+4	WNW	2	c	58	92	8	8	6	-	4-6	7-8	2500	1		bc	bcc	bcw	c
Scilly (St. Mary's)	1029.7	+4	NW	2	c	58	92	8	2	4	2	1	7-8	1500	1	3	opobcc	cbcc	cbcw	bccw
Guernsey																				
Pembroke	1028.4	+2	W	4	c	59	97	8	8	9	-	4-6	7-8	3000	1	3	bcc	c	cm	bcw
Holyhead (Valley)	1026.5	+4	S'W	4	c	58	92	8	5	7	-	4-6	9+	4000			c	c	c⊕o	c
Chester (Sealand)	1026.6	+6	WSW	1	zo	59	75	6	5	7	-	2-3	9	4500	0	*	cmc	cmo	cbcmow	bccmmmow
Manchester	1027.0	+6	W'N	1	zo	56	85	5	-	7	8	0	9	-	1	*	cmz	czm	iromoc	moiroc
Spurn Head	1025.9	+8	W'S	2	z	59	75	6	7	6	-	4-6	7-8	2500	0		om	om	o	bmo
Catterick	1025.7	+12	SW	1	c	58	85	7	5	7	-	7-8	10	2200	0	*	iregc	c	cbcmo	bc
Tynemouth	1024.8	+12	SW	2	z	59	85	6	8	-	-	9+	9+	2500	1		cmm	cm	cmo	cmo
St. Abbs Head	1022.3	+14	W	3	c	57	92	8	5	2	-	7-8	9+	2500	0		c	c	c	cbc
Leuchars	1021.5	+14	W	5	z	57	92	6	5	4	2	2-3	2-3	1200	1	*	rrogmc	cmbcm	cmocbc	bcbcw
Renfrew (Abbots I.)	1023.3	+18	SWW	2	dodo	57	97	5	6	2	-	7-8	10	800	1	*	iroidddm	cddidd	cdidmc	cbcbcmo
Eskdalemuir	1028.8	+8	WSW	4	c/d	56	92	6	5	-	-	9	10	450	1	*	idocir	odo	ofido	oido
Point of Ayre	1025.0	+4	W	5	c	59	92	8	5	1	-	4-6	9+	2000	1		dodoc	cDDc	cbc	bbcc
Tiree	1021.3	+12	SW'W	3	dodo	58	97	5	5	-	-	10	10	300	1		odo	omdo	odoc	c
Stornoway	1017.9	+2	S	5	c	58	92	7	5	2	-	9	10	2000	1	3	cpr	c	cprc	cdodo
Dalwhinnie	1021.0	+16	S	1	o	57	85	7	5	-	-	10	10	1500	1	*	cid	o	*	cido
Aberdeen	1020.6	+20	SW	2	bc	59	85	7	5	7	3	4-6	4-6	2900	1		czirobcz	bczbc	bczo	bcw
Wick	1018.9	+22	SSE	1	c	57	85	7	5	7	-	4-6	9	3000	1		ciroc	cpgcjpc	cmoc	cbcwbcv
Sumburgh	1016.8	+26	W'S	4	c	53	92	8	5	7	-	4-6	10	2500	1	*	ciroc	cbcc	ciromo	cirormoc
Blacksod Point	1023.1	+4	WSW	5	c	59	85	7	2	-	9	2-3	9	1500	0	4	c	c	c	cbcq
Malin Head	1022.2	+14	W	4	c	59	92	7	8	-	-	9	9	1500	1		cidc	c	c	c
Aldergrove	1024.6	+6	SW'W	3	c	60	92	8	5	-	6	7-8	9	2500	1	*	ircm	cigmc	cbcw	bc
Birr Castle	1026.1	+6	W	1	c	61	85	8	5	-	-	9	9	4000	1	*	c	c		c
Valentia Obsy. †	1027.3	+4	SSW	4	c	59	85	8	5	-	3	4-6	7-8	4000	1	3	bcwc	c	bcwcwc	cpro.
Roches Point	1027.9	+6	W	3	c	60	85	8	5	-	5	2-3	7-8	2500	1	4	bcc	c	bcw	cw

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/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕ Solar halo. ⊕ lunar halo. Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

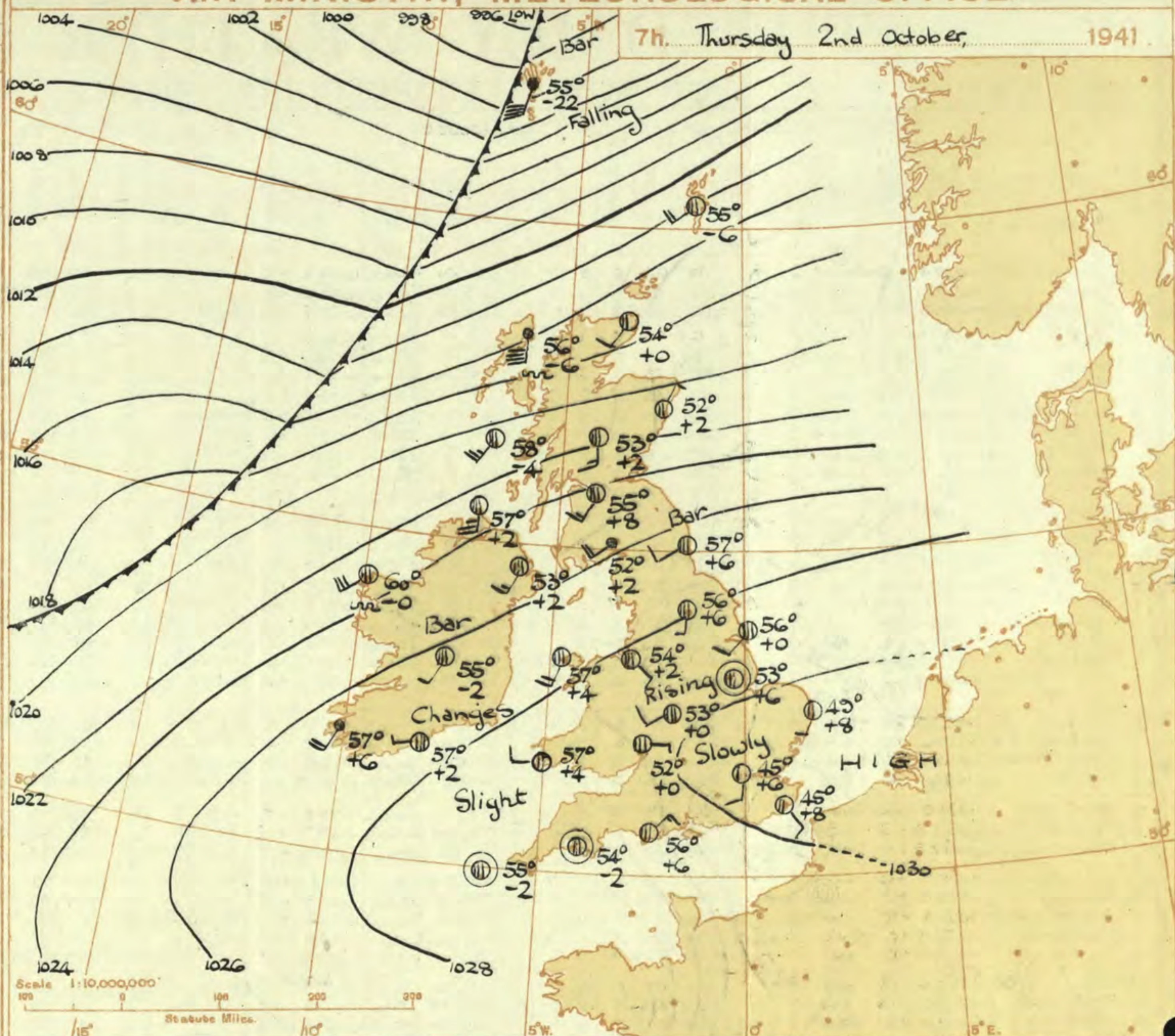
COLUMN 29.—STATE OF GROUND.

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.

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.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 2nd October, 1941



Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 1st October		18h. G.M.T.			01h. G.M.T. 2nd October			07h. G.M.T.		
III $C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN
109 57	22846	22667	52	05676	23417	5-	61648	19368	57	02853	17525
115 57	09734	22387				52	81735	20588	52	02944	18586
203			6-	03838	20468	6-	62828	20668			
206 51	02958	22228	57	02855	22328	53	02853	53427	54	02962	20325
210 57	02965	20467	57	02853	20228	57	02864	22427	54	01961	52414
220 5-	03728	22328	5-	51418	21358				52	02845	19528
230 6-	62638	20408	5-	52638	20358	5-	21747	20257	5-	02857	19227
245 84	02754	22368	54	01744	20325	54	01744	22325	84	01851	22414
260 57	02745	20427	5-	51637	55458	53	01763	20115	80	01852	20413
278 57	02890	22368	57	61846	18368	57	02851	20327			
279 52	02645	18428	57	05634	20428	57	02755	20328	57	02754	20315
285 27	02743	24527	57	51636	28458				13	01633	26514
288 77	02864	22267	57	02855	20227	57	05666	19227	50	05661	18225
575 62	51637	22258	57	02845	22227	51	02755	22427	5-	02857	22427
301 52	02745	26828	5-	21778	23358	50	01763	22324			
321 77	05665	26227	53	05663	23225	07	08490	18201	57	08464	18117
299			50	05654	20214	5-	05645	24215	57	08445	23227
292 51	02854	24328	57	02854	23127	57	05663	18214	50	45345	18146
310 --	02648	24328	--	01644	24314						
314 57	05673	24327	09	05690	22224	03	47290	00044	5-	08467	20157
333 71	02863	20417	57	02766	20327	57	02764	20226			
334 --	03646	26328	--	03746	28328				--	02455	04116
340 57	02956	22228				57	02865	16226	5-	05667	14227
136 17	02751	24317	57	05663	00024	60	04490	20110	00	43190	18140
336 51	02763	24317	13	01763	28313				51	02752	24318
350			07	02790	24126	00	05590	18103	07	47190	17143
368			24	02753	22327				50	05652	00014
379 17	02863	24326	07	05690	18128				53	01761	18213
390 57	05663	26318	53	05690	00025	00	45290	00040	--	43109	08149
382 19	02851	24227	57	02763	00028	03	47390	00012	00	47190	00040
438 5-	02767	20117							80	02634	08324
430 17	02861	24128	07	05590	20127	00	05690	30160	00	05590	32201
409 53	02843	22227	50	02842	23116	5-	05667	16227	57	09844	00028

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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 2nd October 1941
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light variable wind; fine or fair; much fog later at night and in morning; warmer by day, cool at night.
5 S.W. England 6 South Wales ...	Light variable wind; fair; local fog later at night and in morning; warmer by day, cool inland at night.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light or moderate S.W. wind; fair, but much cloud at times; local morning fog; warmer by day.
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	Fresh or strong S.W. wind; cloudy, slight local rain; mild.

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

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

GENERAL INFERENCE.

A large anticyclone covers most of England; and a depression S.E. of Iceland is moving N.E. Weather will be fair, except in the extreme N.W. with fairly widespread morning fog in England.

FURTHER OUTLOOK.

Unsettled in the extreme N.W., fair elsewhere. Much fog later at night and in morning in the Midlands and East of England.

Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Meteorological Office Dunstable. 0.263/4420.Wt.8176.0.6034.6p.348 8300 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

Thursday 2nd. October,

1941.

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

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 2nd October 1941.

No. 29,169

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1029.5	+6	SW	2	m	46	97	4	–	4	–	0	Tr	–
	S. Farnborough	226	1030.0	+4	–	0	–f	48	92	4	–	5	–	0	7-8	–
	Boscombe Down	417	1029.9	+6	–	0	fg	51	97	3	–	3	1	0	2-3	–
	Thorney Island	10	1029.6	+2	NE	1	z_0	48	97	5	–	–	–	0	0	–
	Lympne	346	1029.8	+6	–	0	bf+	47	97	3	–	–	–	0	0	–
	Manston	154	1030.0	+6	–	0	fg	48	97	5	–	–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1029.1	+6	WSW	1	z_0	54	85	5	5	–	–	2-3	2-3	4000
	Gorleston	5	1028.8	+4	SW'W	2	z_0	53	85	5	–	–	–	0	0	–
	Mildenhall	19	1029.3	+6	S	2	f–	45	97	3	–	–	–	0	0	–
	Cranwell	240	1028.8	+6	W	2	z_0	51	85	6	–	–	–	0	0	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1029.7	+6	SE	1	~f+	49	97	3	–	7	–	0	2-3	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1029.1	0	NNE	1	c	58	92	8	5	2	–	7-8	9+	2500
	Bristol	209	1029.6	+4	–	0	z_0	51	92	5	–	3	–	0	4-6	–
	Portland Bill	32	1029.2	+6	NW	2	bc	57	92	8	2	–	–	4-6	4-6	4000
	Plymouth	82	1030.4	-2	E	1	z_0	53	97	6	5	–	–	10	10	5000
	The Lizard	240	1030.0	+2	WNW	1	bc	54	92	7	4	3	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	1030.3	+2	WNW	1	bc	54	97	7	–	–	6	0	4-6	–
	Guernsey	175														
6	Pembroke	142	1029.5	+12	SW'W	2	bc	58	97	8	–	4	–	0	4-6	–
7	Holyhead (Valley)	26	1027.8	+4	S	3	c	59	92	7	5	7	–	7-8	10	4000
	Chester (Sealand)	16	1028.3	+2	E'N	2	z_0	52	92	6	5	3	–	Tr	4-6	4000
8	Manchester	235	1028.5	0	S'E	2	c	55	85	6	5	7	–	7-8	10	2500
10	Spurn Head	29	1027.9	+2	WSW	3	z_0	55	85	6	5	7	–	7-8	10	2500
	Catterick	175	1027.4	+6	W'S	1	z_0	57	92	6	–	3	–	0	7-8	–
	Tynemouth	108	1026.1	+4	SW	2	z_0	58	85	6	5	–	–	9+	9+	2500
11	St. Abbs Head	280	1023.8	+8	SW	3	c	57	92	7	5	7	–	4-6	7-8	2500
	Leuchars	36	1022.7	+2	WSW	3	bc	58	92	8	5	4	–	4-6	4-6	1500
12	Renfrew (Abbots I.)	19	1024.5	+2	SW	3	c	58	92	7	5	7	–	9	10	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1026.4	+8	W'S	3	bc	57	97	8	4	4	5	2-3	4-6	3000
13A	Tiree	22	1021.9	0	SW	4	c	57	92	7	5	–	–	9	9	1800
13B	Stornoway	80	1017.2	-6	S	5	c	57	85	8	8	7	–	7-8	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	1018.7	-2	SSW	2	c	57	92	7	5	–	–	9+	9+	2500
16	Sumburgh	30	1017.8	-4	S'W	4	ir_0	54	92	6	5	7	–	7-8	10	1100
17	Blacksod Point	18	1023.2	-2	W	4	cq	60	75	8	7	–	–	0	9+	–
18	Malin Head	84	1022.9	+2	SSW	5	c	58	85	7	9	–	–	9	9	1500
	Aldergrove	268	1026.4	+2	SSW	2	c	54	92	7	5	4	1	2-3	7-8	2500
19	Birr Castle	173														
20	Valentia Obsy.	30	1027.4	-4	S'W	4	c	58	92	8	5	–	–	7-8	7-8	4000
	Roches Point	22	1028.7	+2	W'S	1	bc	53	97	8	5	3	–	1	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 2nd October — PAST 24 HOURS

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 1st Hrs. (36)
1	London (Kew)	1030.7	+8	–	0	F–	42	97	1	–	–	–	0	0	–	1	*	59	41	34	Tr	Tr	1.1
	Croydon	1030.6	+6	S	2	z_0	45	97	6	–	–	1	0	Tr	–	1	*	59	43	42	–	Tr	1.4
	S. Farnborough	1030.8	+10	SSE	2	m	40	97	4	5	3	1	Tr	Tr	500	1	*	61	39	31	–	–	0.6
	Boscombe Down	1030.2	+2	–	0	f–	46	97	2	5	–	–	9	9	5700	0	*	61	42	39	Tr	Tr	2.5
	Thorney Island	1029.8	+4	NE	1	z_0	44	97	6	–	4	1	0	Tr	–	0	*	62	42	38	–	0.1	*
	Lympne	1020.5	+8	SE	1	fs	45	97	8	1	7	1	Tr	2-3	1500	0	§4	58	43	32	–	–	2.8
	Manston	1030.6	+6	–	0	z_0	48	92	6	5	–	–	Tr	Tr	2500	0	*	57	47	34	–	Tr	2.7
2	Shoeburyness	1030.2	+4	–	0	bcf	43	97	3	–	3	1	0	2-3	–	0	*	60	42	37	Tr	–	2.9
	Felixstowe	1029.7	+6	–	0	F	47	97	1	–	–	–	10	10	<150	1	0	58	46	44	–	–	2.8
	Gorleston	1030.1	+8	S'W	1	z_0	49	92	6	–	4	4	0	4-6	–	0		60	48	44	–	–	*
	Mildenhall	1030.1	+10	S'E	1	bf	41	97	3	–	–	1	0	Tr	–	0	*	59	41	33	–	Tr	1.8
	Cranwell	1029.0	+6	–	0	z_0	53	92	5	5	–	–	9+	9+	5000	1	*	63	49	46	–	–	1.6
3	Birmingham	1029.2	0	SW	2	c	53	92	6	5	–	–	9	9	2500	1	*	58	51	42	–	–	0.6
	Upper Heyford	1030.2	+2	SE	1	F–	44	97	1	–	3	1	0	7-8	–	1	*	61	41	40	–	–	*
4	Ross-on-Wye	1029.0	0	E	1	–	52	97	6	5	–	1	9	9	4000	1	*	62	49	45	–	–	0.2
5	Hartland Point	1028.8	0	WNW	2	c	58	92	7	5	2	–	7-8	9	1000	0	3	61	52	54	–	–	6.0
	Bristol	1029.8	+4	–	0	bjf	43	97	6	5	4	1	Tr	1	800	1	*	60	43	35	–	–	1.3
	Portland Bill	1028.9	+6	NE	3	c	56	92	8	5	4	–	7-8	9	4000	1		61	54	*	–	–	*
	Plymouth	1029.5	-2	–	0	z_0	54	97	6	5	–	–	9+	9+	4000	0	2	62	51	45	–	–	5.4
	The Lizard	1029.1	+2	–	0	c	55	97	8	8	2	–	9	10	800	1	3	63	53	*	–	–	9.4
	Scilly (St. Mary's)	1029.3	-2	–	0	c	55	97	8	5	4	–	4-6	9	1800	1	3	63	53	*	0.1	–	7.7
	Guernsey																						
6	Pembroke	1029.1	+4	W	2	bc	57	92	7	2	6	1	2-3	4-6	2500	1	3	60	55	*	–	0.1	3.5
7	Holyhead (Valley)	1027.8	+4	S'W	4	c	57	97	7	5	–	–	9+	9+	800	0	3		57			–	
	Chester (Sealand)	1028.3	+2	SE	1	z_0	54	92	5	5	–	–	9+	9+	4000	0	*	64	51	47	–	–	0.0
8	Manchester	1028.7	+2	S'E	3	id_0	55	85	5	5	7	–	7-8	10	2000	1	*	59	52	51	–	Tr	*
10	Spurn Head	1028.4	0	SW'S	2	z_0	56	85	6	5	–	–	9	9	4000	0	2	60	52	*	–	–	
	Catterick	1027.9	+6	S	1	c	56	92	7	5	4	6	2-3	7-8	2500	0	*	62	53	49	Tr	–	0.0
	Tynemouth	1026.7	+6	SW	2	z_0	57	92	6	2	3	1	4-6	7-8	2800	1	2	62	56	53	–	–	*
11	St. Abbs Head	1023.9	+10	SW	2	bc	55	85	8	4	4	5	1	4-6	2500	0	2	62	54	*	0.4	–	*
	Leuchars	1022.8	+2	WSW	3	bc	55	92	7	5	9	2	Tr	2-3	1500	1	*	60	55	51	0.5	–	0.1
12	Renfrew (Abbots I.)	1024.9	+8	SW'S	3	z_0	55	92	6	6	–	1	4-6	7-8	800	1	*	58	54	49	0.2	0.4	0.0
	Eskdalemuir	1025.7	+2	SW	4	id_0	52	92	6	6	2	–	2-3	10	220	1	*	55	52	49	1	0.2	0.0
	Point of Ayre	1027.1	+4	WSW	2	c	55	97	8	5	7	–	7-8	9+	4000	1	2	59	52	*	0.5	–	0.0
13A	Tiree	1021.3	-4	SW'S	5	c	58	85	7	5	–	–	9+	9+	1800	0		58	58	*	0.2	0.1	0.0
13B	Stornoway	1015.2	-6	S	8	d_0d_0	56	97	6	5	–	–	10	10	600	1	5	62	56	*	0.1	0.1	2.5
15	Dalwhinnie	1022.9	+2	S	3	c	53	75	8	8	–	2	4-6	7-8	4000	0	*	59	52	45	Tr	Tr	0.1
	Aberdeen	1021.1	+2	NNE	1	bc	52	92	8	5	4	9	1	2-3	4500	1	1	63	58	41	Tr	–	1.4
	Wick	1018.0	0	SW'S	2	bc	54	75	9	4	4	9	1	4-6	2500	1	*	64	53	49	Tr	–	*
16	Sumburgh	1016.3	-6	SW	4	c	55	85	8	5	–	2	9.	9+	3000	1	4	55	52	48	Tr	0.2	1.3
17	Blacksod Point	1022.5	0	SW	6	cq	60	75	8	4	5	–	4-6	7-8	2500	0	5	63	57	*	Tr	–	*
18	Malin Head	1022.6	+2	S	5	c	57	85	8	5	–	2	4-6	7-8	2500	0	4	60	53	*	2	–	0.0
	Aldergrove	1026.2	+2	SSW	3	c	53	85	8	5	–	–	9+	9+	2000	1	*	61	50	43	0.5	–	0.0
19	Birr Castle	1026.7	-2	SSW	1	c	55	85	8	5	–	–	9+	9+	2500	1	*	62	50	45	Tr	–	0.8
20	Valentia Obsy.	1026.9	+6	SW'S	4	pr	57	92	8	5	–	–	10	10	2500	1	4	64	57	52	Tr	Tr	5.3
	Roches Point	1028.2	+2	WSW	1	c	57	97	8	5	–	–	9+	9+	2500	1	4	64	53	*	–	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	bcm_0wz_0	$cir_0m_0cm_0$	bcmbffwF	59	41	34	Tr	Tr	1.1	*	*	3
Croydon	217	bcm_0cz_0		cmbmwbm	59	43	42	–	Tr	1.4	*	*	5
Greenwich (Royal Observatory)	149	cm_0	cm_0	cbcbwm	59	43	30	–	Tr	2.1	64	80	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	59	45	42	–			95?	95	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	59	44	37	Tr	–		70	93	*
Camden Square	110	bc	c	*	60	44	39	–	–	*	*	97	*
Kensington	80	bco	o	*	60	45	36	–	*				*
Hampstead Observatory	450			*							*		*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 2nd

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0.4	20h 1st	0.1	7-14h 1st

FOREIGN OBSERVATIONS.

Stations	Evening of 1st October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 2nd October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1000.3	SSW	3	c	46	999.8	SSW	3	pr	41	*	*	*	*
Lisbon (18h and 07h)	1017.5	ENE	2	bc	79	1016.5	NE	3	b	64	82	61	–	–
¶Madrid (18h and 07h)						904.1	ENE	1	bc	50		50		–
Cairo (Heliopolis) (18h and 06h)	1019.0	NE	3	b	75						87		–	
Toronto (13h and 01h)														
Washington (13h and 01h)														

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Code		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6¼ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

Friday 3rd October 1941.

No 29,170

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1030.0	-10	-	0	bc	63	65	7	8	-	5	4-6	4-6	2500
	Croydon ...	1029.7	-8	ESE	1	bc	67	55	7	1	-	-	2-3	2-3	2000
	S. Farnborough	1029.8	-10	SW	2	bc	67	65	7	1	-	-	4-6	4-6	3000
	Boscombe Down	1030.0	-6	-	0	bc	65	65	7	2	-	-	4-6	4-6	3000
	Thorney Island	1030.2	-4	S'W	2	bc	65	65	7	1	-	1	2-3	2-3	2500
	Lympne ...	1030.1	-10	NE	1	z	62	65	6	1	-	1	1	2-3	3500
	Manston ...	1030.4	-6	SSE	1	z	62	65	6	1	3	1	Tr	2-3	2500
2	Shoeburyness ...	1030.5	-8	SSE	1	bc	63	65	6	-	5	2	0	4-6	-
	Felixstowe ...	1030.0	-6	S	3	z	62	65	6	1	-	6	Tr	4-6	4000
	Gorleston ...	1030.4	-4	NE'N	2	z	62	75	6	2	-	2	2-3	4-6	2500
	Mildenhall ...	1029.9	-8	-	0	z	65	75	6	1	-	-	2-3	2-3	4000
	Cranwell ...	1029.5	-2	SW	3	c	65	65	8	7	-	-	9	9+	4000
3	Birmingham	1029.1	0	SE	2	bc	64	65	8	7	-	1	4-6	4-6	4000
	Upper Heyford	1030.0	-8	SW	3	bc	62	75	7	1	-	-	4-6	4-6	2500
4	Ross-on-Wye ...	1028.9	0	SW	2	bcjp	65	65	7	2	-	-	4-6	4-6	4000
5	Hartland Point	1029.6	+2	NNE	2	c	59	85	7	5	1	-	7-8	10	1000
	Bristol ...	1029.8	-4	-	0	c	64	65	7	2	-	1	7-8	7-8	3000
	Portland Bill ...	1030.6	+2	SSE	2	bc	64	85	8	2	-	-	4-6	4-6	4000
	Plymouth ...	1029.9	-4	-	0	c	61	85	8	8	-	-	7-8	7-8	2500
	The Lizard ...	1029.4	+2	-	0	c	61	85	7	8	2	-	7-8	9+	1000
	Scilly (St. Mary's)	1029.6	-4	NW	1	c	62	75	7	8	-	-	9+	9+	1200
	Guernsey ...														
6	Pembroke ...	1030.0	+2	SSE	2	c	60	92	6	8	-	-	9+	9+	2500
7	Holyhead (Valley)	1028.6	+4	SW	3	bc	63	75	8	8	4	2	2-3	4-6	2000
	Chester (Sealand)	1028.5	0	SSE	2	c	64	75	7	5	-	-	9+	9+	4000
8	Manchester ...	1028.9	-2	S'E	2	c	61	75	6	5	-	-	10	10	5500
10	Spurn Head ...	1029.1	0	SW	2	z	61	85	5	5	-	-	9	9	2500
	Catterick ...	1028.4	0	W'S	3	c	64	65	7	8	-	-	9	9+	2800
	Tynemouth ...	1027.2	0	W	3	c	64	85	7	8	-	-	9	9	2800
11	St. Abbs Head	1024.7	+2	W	4	bc	61	65	9	4	4	5	4-6	4-6	2500
	Leuchars ...	1023.4	+2	W	6	c	61	75	7	5	-	1	4-6	7-8	2500
12	Renfrew (Abbots I.)	1025.3	+2	SW	4	c	61	75	7	5	7	-	7-8	7-8	4500
	Eskdalemuir ...	1025.6	0	SW	5	c	57	75	8	7	-	-	7-8	7-8	2500
	Point of Ayre ...	1027.9	0	W	4	bc	65	65	8	1	4	1	1	2-3	3000
13A	Tiree ...	1021.9	+4	SW	5	c	60	85	7	5	-	-	9+	9+	2200
13B	Stornoway ...	1017.4	+20	S	5	o/d	58	92	7	5	-	-	10	10	800
15	Dalwhinnie ...	1023.1	0	S	4	c	59	85	8	4	-	-	7-8	7-8	2500
	Aberdeen ...	1021.6	+8	WSW	3	b	68	55	9	-	4	1	0	Tr	-
	Wick ...	1018.2	+6	SSW	5	c	65	65	9	5	4	9	2-3	7-8	3000
16	Sumburgh ...	1015.9	+2	SSW	5	ic	55	85	7	5	-	-	10	10	1500
17	Blacksod Point...	1023.6	+8	S	5	c	61	85	8	5	-	-	10	10	4000
18	Malin Head ...	1022.3	-4	S'W	5	bc	64	75	8	4	4	-	2-3	4-6	5700
	Aldergrove ...	1026.4	+2	SW'S	3	c	60	75	8	5	4	5	7-8	9	3500
19	Birr Castle ...	1027.4	+4	SW	1	c	61	75	8	5	-	-	9+	9+	2500
20	Valentia Obsy. †	1027.4	-2	SSW	4	c	61	75	8	5	-	-	10	10	4000
	Roches Point ...	1028.8	0	SW	3	c	60	85	8	5	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 2nd October — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 2nd (37)	Weather 13h.–18h. 2nd (38)	Weather 18h. 2nd to 1h. 3rd (39)	Weather 1h.–7h. 3rd (40)
London (Kew)	1029.7	0	-	0	z	56	85	6	5	4	-	4-6	7-8	1500	1	*	bFefewbc	bcbczir	bcmobfefew	FeFew
Croydon	1029.4	+2	SE	1	bcjf	55	85	5	-	-	2	0	2-3	-	1	*	bmb	bcybjf	bfebmw	mwbmo
S. Farnborough	1029.6	0	-	0	z	59	75	6	4	-	1	2-3	2-3	4000	0	*	bmzbc	bcyz	bczobfew	cfwFFe
Boscombe Down	1029.7	+4	SSW	2	bc	57	85	7	5	-	1	4-6	4-6	4000	0	*	cFFbc	bc	bcbm,bif,f	b,F,f,if
Thorney Island	1029.5	0	-	0	b	56	92	7	-	-	1	0	Tr	-	0	*	bmbcm	bcmb	bmbmofgw	bmofgw
Lympne	1029.7	0	-	0	b	52	75	7	-	-	1	0	Tr	-	0	§	bbcm	bmbyb	bffgw	bcfgFb
Manston	1030.0	-2	E	1	z	54	85	6	-	-	1	0	Tr	-	0	*	bm	bzbm	bmow	bbcbmow
Shoeburyness	1030.0	-2	ESE	1	b	57	85	6	-	-	2	0	1	-	0	*	bfbcz	bczbm	bmomw	bmwbcmo
Felixstowe	1029.4	-2	SE'S	2	z	57	85	6	-	-	1	0	1	-	0	1	oFcfbm	bcmb	bmowbmo	bmwbifmo
Gorleston	1029.8	0	S'E	2	z	60	75	6	-	4	2	0	4-6	-	0	3	bcbcz	bcz	bcw	bcboFfe
Mildenhall	1029.6	+2	-	0	bc	58	92	6	5	-	2	2-3	4-6	3000	0	*	bfwlbmbz	bczbcm	bcmowcf	cfwbFe
Cranwell	1029.3	+2	-	0	c	60	85	7	7	-	-	10	10	3500	0	*	cmc	c	c,cmo	cmo,cm
Birmingham	1029.1	0	-	0	z	60	75	5	5	-	-	10	10	2500	1	*	cbc	bccz	c	cm
Upper Heyford	1029.6	+10	E'S	1	c	59	85	7	4	4	6	Tr	7-8	2000	1	*	beffmbc	bcc	cmojfdcf	bcFbFf
Ross-on-Wye	1029.1	+4	S'E	1	c	59	85	7	7	-	-	9	9	4000	1	*	bcbbc	cbcc	c	cff
Hartland Point	1029.1	0	-	0	c	58	92	8	5	6	-	7-8	9	3500	0	3	cirddPm	c	cro	cbc
Bristol	1029.6	+6	S	1	z	57	75	6	7	-	1	2-3	2-3	3000	0	*	bmwfj,c	cbcb	bmofgw	bcbm,OF
Portland Bill	1029.2	0	SSE	2	c	59	92	8	2	4	1	4-6	9	2500	1	3	bcbc	c	bcb	bc
Plymouth	1029.5	0	E	1	c	57	92	7	4	-	4	7-8	7-8	3000	0	2	cmc	cbcc	bmo	bmo,wbcWmo
The Lizard	1028.6	-4	-	0	bc	58	85	8	4	5	-	4-6	4-6	2000	0	2	bcc	bc	bcw	bcw
Scilly (St. Mary's)	1029.1	0	NE'N	1	c	58	85	8	8	-	-	9	9+	1200	1	*	c	c	cbcb	bWbc
Guernsey																				
Pembroke	1029.7	-2	NNW	1	c	58	92	7	5	-	-	9+	9+	3000	1	2	cm	cidmc	c	c
Holyhead (Valley)	1028.9	+4	SSW	3	c	59	85	9	5	-	-	9+	9+	3000	0	3	cbc	c	c	c
Chester (Sealand)	1028.8	+2	NW	2	z	59	75	6	5	4	-	7-8	7-8	4500	0	*	cmc	c,cm	cmow	cmmow
Manchester	1029.3	+4	W	1	pr	58	85	6	8	-	-	10	10	3000	1	*	odcz	czpr	promc	mmoc
Spurn Head	1029.1	0	SW'S	2	z	61	85	6	5	-	-	10	10	2600	0	*		cm	om	o
Catterick	1028.7	+8	SW	2	c	59	75	7	5	7	9	1	7-8	3000	0	*	c	cbc	cmfvcf	cmfbcf
Tynemouth	1027.9	+10	W	2	c	60	75	7	8	-	-	7-8	7-8	2800	1	2	cbccm	c	cbmo	bccmo
St. Abbs Head	1025.6	+2	W	3	c	58	65	9	4	4	5	4-6	7-8	2500	0	3	cbc	bcc	cb	bbc
Leuchars	1025.0	+12	W	2	c	59	75	7	4	-	5	7-8	7-8	2800	1	*	bccbc	bcc	cbcmobmo	bbcmocmow
Renfrew (Abbots I.)	1026.0	+6	SW'S	3	c	59	75	7	5	-	1	9	9	3500	1	*	bcmbcc	c	c	ccmo
Eskdalemuir	1026.9	+6	SSW	3	c	54	85	8	5	4	-	7-8	7-8	2500	1	*	idcbc		cbc	bcomo
Point of Ayre	1028.0	+2	SW'S	2	c	59	85	8	5	4	6	7-8	9	4000	0		cbc	bcc	c	c
Tiree	1022.6	+8	WSW	5	dd	57	97	6	-	2	-	10	10	800	1	5	cir	odr	odd	orr
Stornoway	1021.2	+20	NW	1	c	58	92	8	5	7	-	7-8	10	2000	1	2	cdd	cPR	c	cw
Dalwhinnie	1024.0	+10	SW	3	id	58	92	6	5	-	-	10	10	1500	1	*	c	cid		oid
Aberdeen	1023.4	+18	SW'S	2	bc	59	85	6	4	4	9	2-3	2-3	3100	0	2	bcb	bybcmz	bczobzo	czow
Wick	1020.6	+14	SW'S	4	ir	57	85	9	5	7	-	4-6	10	2500	1	*	bcbbc	bccir	odcdoc	bcwbw
Sumburgh	1019.7	+30	NW	4	c	54	85	7	5	-	-	10	10	4000	1	*	cbccir	cirsmc	rorc	cbcbw
Blacksod Point	1024.6	+4	SW	6	cq	59	85	7	5	-	-	9	9	1500	0	5	cq	cq	cq	c
Malin Head	1024.7	+20	SW	4	c	60	85	8	9	-	-	9	9	2500	0	4	bc	c	c	c
Aldergrove	1027.1	+12	SW	2	c	59	75	8	5	-	-	9+	9+	3000	1	*	c	cbcc	c	c
Birr Castle	1027.4	+2	SSW	1	c	59	85	8	5	-	-	7-8	9+	2500	1	*	c	c	*	c
Valentia Obsy. †	1027.9	+6	S	3	c	58	85	8	5	-	-	9+	9+	4000	1	4	pcirc	circ	cproawc	cprc
Roches Point	1028.7	+2	SSW	2	c	59	92	8	5	-	-	9	9	1500	1	3	c	c	c	c

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/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ↗ gale.
⊕ Solar halo. ⓘ lunar halo. ⌂ Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

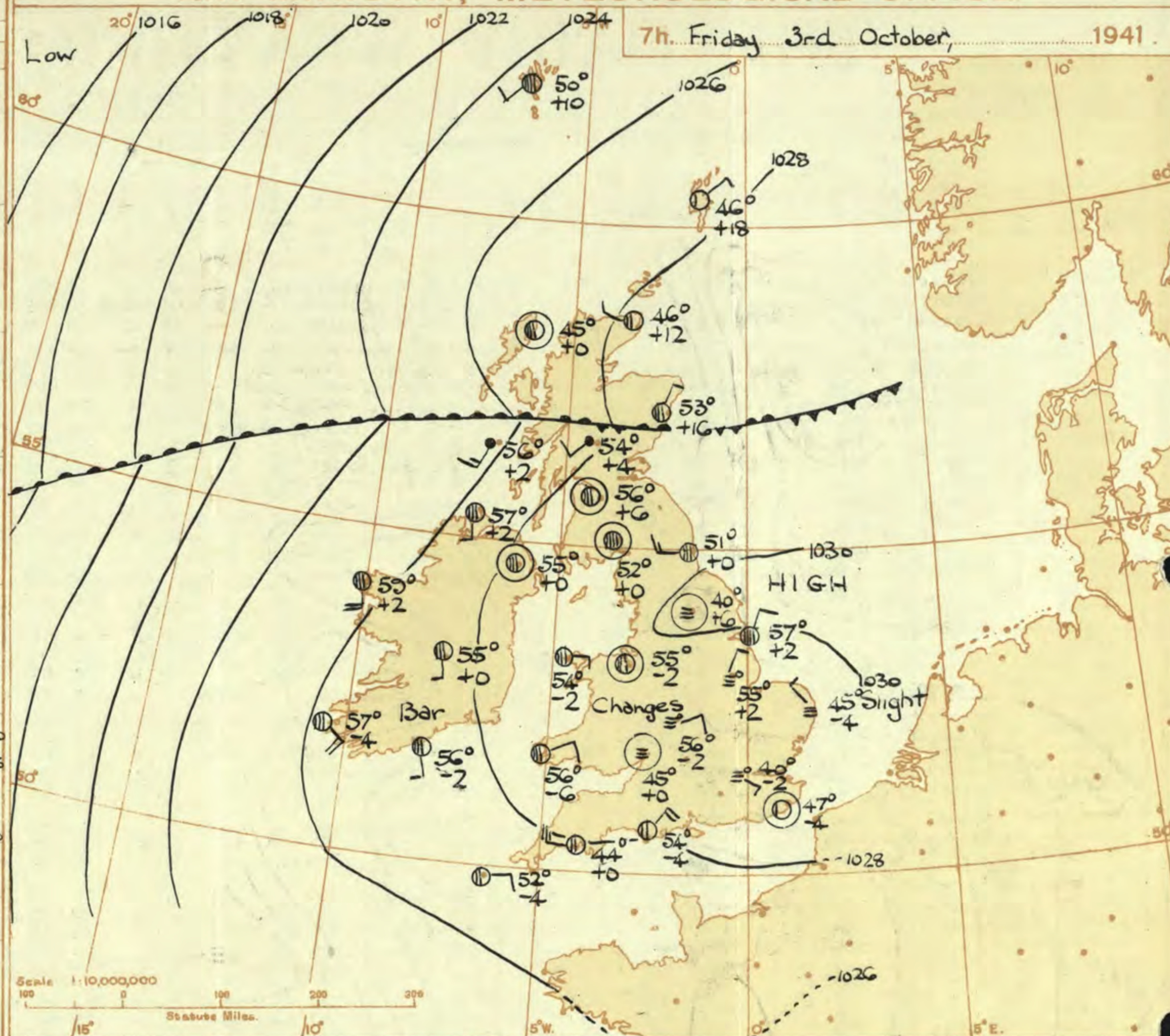
COLUMN 29.—STATE OF GROUND.

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.

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.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 3rd October, 1941.



Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 2nd October $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 3rd October $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	57	02866	53717	52	52527	26468	00	00790	26308	77	00753	00003
115	5-	67208	20669	--	67209	28369	58	02844	28187	54	01854	08225
203	6-	62738	49688				5-	02948	00028			
206	73	01964	20515	57	61845	20367	5-	21857	00067	5-	62538	04268
210	14	01931	56514	57	02965	20317	02	52748	01258	02	52638	07258
220	52	58625	21468	52	59616	21458				5-	22638	14168
230	8-	02857	18327	5-	58528	53468	5-	51538	20258	5-	22738	14158
245	50	01954	21514	54	02856	19416	54	09662	18113	57	04851	00015
260	83	02854	22416	54	02865	22315	54	02764	20315	5-	02867	00017
278	5-	02867	14217	5-	02867	20317	5-	02868	12128	5-	02768	12228
279	7-	02857	20327	5-	02967	20427	53	02754	20327	5-	02867	18127
285	23	02746	22517	23	02853	32514				5-	02857	28327
288	8-	02757	19427	57	01764	19214	03	05690	17113	50	09864	20115
575	53	01963	20324	5-	02867	20327	5-	02868	14128	5-	02868	14228
301	73	02766	22227	53	05662	26114	5-	02768	00018	5-	45376	10146
321	5-	05668	19228	5-	05668	20128	5-	05568	30128	5-	08468	00028
299	5-	05658	23228	5-	05558	22228	5-	05648	25228	5-	02747	25227
292	51	05666	20148	53	02868	22147	5-	05657	00027	54	05654	00025
310				--	02538	24228				--	03528	04228
614	5-	05868	20248	5-	47368	00028	5-	47268	06148	5-	08418	04148
333	83	02853	20315	5-	02967	20217	5-	02857	00027	5-	02968	00028
334	--	02646	06217	--	02646	30217				--	03648	00028
340	7-	02878	16128	5-	02878	15128	5-	08458	32128	5-	08458	00028
136	24	05654	20244	40	05662	20114	50	05663	13113	54	04574	00014
336	51	02763	22427	51	02763	28228				51	05652	28228
350	20	01754	22214	00	01690	00015	53	08463	12104	00	04320	10240
368	80	01653	12114	40	01790	00013	03	05590	29127	03	41490	02146
379	20	01753	20243	04	01790	00013	03	05690	08103			
390	10	05652	12143	00	08490	00013	00	04690	12100	00	43190	30140
382	80	01865	00015	40	01765	28115	00	47290	00043	00	45190	00040
438	50	01663	12313							50	01662	04402
430	10	01864	10214	00	00790	08102	00	05590	32100	50	05641	02241
409	5-	02868	00068	50	01863	02165	00	00890	03300	00	01790	04304

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

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 3rd October, 1941.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light variable or easterly wind; fine and rather warm during day; extensive fog and ground frost in places tonight.
5 S.W. England 6 South Wales ...	Light easterly wind; fair or fine; rather warm during day, cool at night.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light variable wind; fair but considerable cloud at first; fog in many places in early morning; average day temperature, local ground frost at night.
10 N.E. England 11 S.E. Scotland	Light variable wind: fair or fine during day. fog in many places in early morning; average day temperature, ground frost at night.
12 S.W. Scotland & Isle of Man.	As 7-9.
13A. W. Scotland 13B. N.W. Scotland	Light to moderate S.W. wind, cloudy, occasional rain; mild.
14 Mid Scotland 15 N. E. Scotland	Light S.W. wind; mainly fair but considerable cloud; average temperature.
16 Orkneys and Shetlands	Light variable wind becoming S.W.; mainly fair at first cloudy with occasional rain later; rather cold at first, becoming milder.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate southerly wind, fair or fine. Average temperature.

GENERAL INFERENCE.

An anticyclone covers most of the British Isles and a feeble trough of low pressure over Scotland is moving slowly North. Weather will be fair or fine over most of the country, but fog will develop extensively tonight. It will be rather warm during the day but ground frost will occur in places tonight. Cloudy weather with slight rain will occur in North and West Scotland.

FURTHER OUTLOOK.

Fair or fine, in most districts.

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

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

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Friday 3rd October

1941.

Clarke's Projection Scale 1: 4 × 10⁷ along meridian at 55°

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. (Ł) Thunderstorm. Ł Slight haze. ∞

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 3rd October 1941.

No. 29170

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

District.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1029·8	-2	S'W	2	m	43	97	4	-	-	-	0	0	-
	S. Farnborough	226	1030·1	-6	-	0	f	48	97	3	5	-	-	9	9	200
	Boscombe Down	417	1030·0	-4	-	0	bf-	49	97	3	-	-	-	0	0	-
	Thorney Island	10	1029·4	-6	NNE	1	fg	45	97	5	-	-	-	0	0	-
	Lympne ...	346	1029·8	-6	-	0	b/f	45	97	6	5	-	-	Tr	Tr	1500
	Manston ...	154	1029·8	-6	E'N	1	z$_o$	49	92	6	5	3	-	Tr	1	1800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1029·7	-6	-	0	m	50	92	4	-	3	1	0	2-3	-
	Gorleston ...	5	1030·6	+2	SW'W	1	z$_o$	53	92	6	-	2	-	0	2-3	-
	Mildenhall ...	19	1030·1	-2	SSE	1	f	48	97	3	-	3	-	0	7-8	-
	Cranwell ...	240	1029·5	-2	-	0	z$_o$	57	97	6	5	-	-	9+	9+	3500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1030·1	-2	E'N	1	bef+	49	97	3	-	-	6	0	4-6	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1029·0	-2	ENE	2	c	57	85	7	5	6	-	4-6	7-8	2500
	Bristol ...	209	1029·7	-4	-	0	fg	48	97	4	-	3	-	0	2-3	-
	Portland Bill ...	32	1028·9	-8	E	2	b	56	92	8	-	-	-	0	0	-
	Plymouth ...	82	1029·5	-6	E	1	z$_o$	48	97	6	-	-	-	0	0	-
	The Lizard ...	240	1028·4	-4	NE	2	bc	53	97	8	4	-	-	4-6	4-6	2500
	Scilly (St.Mary's)	163	1028·9	-6	E	2	b	53	97	7	-	-	-	0	0	-
	Guernsey ...	175														
6	Pembroke ...	142	1029·7	-2	NE	2	c	57	85	7	8	2	-	7-8	10	2500
7	Holyhead(Valley)	26	1029·6	+2	-	0	c	58	85	8	5	-	-	10	10	3200
	Chester(Sealand)	16	1030·0	-2	-	0	z$_o$	55	92	5	5	-	-	10	10	4000
8	Manchester ...	235	1030·5	+2	-	0	z$_o$	55	92	5	5	-	-	9+	9+	4000
10	Spurn Head ...	29	1029·8	0	NW'N	2	0	59	85	5	5	-	-	10	10	2500
	Catterick ...	175	1030·5	+4	-	0	z$_o$	50	85	6	5	-	-	7-8	7-8	4500
	Tynemouth ...	108	1029·1	+4	W	3	z$_o$	51	85	6	-	-	-	0	0	-
11	St. Abbs Head	280	1027·0	0	W	4	b	54	85	8	4	4	-	Tr	1	2500
	Leuchars ...	36	1026·7	+4	WSW	2	z$_o$	54	92	6	5	-	-	1	1	3500
12	Renfrew (Abbots I.)	19	1027·8	+6	WSW	2	c	57	85	7	5	-	-	9	9	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1028·9	+2	SW'W	2	c	57	85	8	7	-	-	9+	9+	4000
13A	Tiree	22	1025·4	+6	*	0	dd	56	97	6	*	2	-	10	10	1200
13B	Stornoway ...	80	1026·4	+16	-	0	c	49	92	7	5	4	-	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1025·9	+18	NW	2	c	51	97	7	5	7	1	2-3	9+	4000
16	Sumburgh ...	30	1024·6	+18	WSW	2	c	51	92	7	5	-	6	Tr	9	3000
17	Blacksod Point	18	1026·0	+2	S'W	5	eq	59	85	8	-	7	-	0	9+	-
18	Malin Head ...	84	1026·2	+6	S	3	c	58	85	8	5	-	-	7-8	7-8	3700
	Aldergrove ...	268	1028·7	+4	S'E	1	c	50	92	8	5	-	-	9+	9+	3500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1028·0	-2	SSE	3	c	58	92	8	5	-	-	10	10	4000
	Roches Point	22	1029·1	-2	S	1	c	58	85	8	5	-	-	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 3rd October

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1029·3	-2	-	0	F	42	97	1	-	-	-	10	10	<150	1	*
1029·1	-2	ESE	1	m	40	97	4	-	-	-	0	0	-	0	*
1028·2	-10	-	0	F	45	97	0	-	-	-	10	10	4150	1	*
1029·3	-2	-	0	bF+	44	97	1	-	-	-	0	0	-	0	*
1028·5	+2	NE	1	fg	44	97	6	-	-	-	0	0	-	0	*
1028·4	-4	-	0	b	47	97	7	-	-	1	0	Tr	-	0	*
1028·3	-4	NE'E	3	z$_o$	54	85	6	5	4	-	Tr	Tr	1800	0	*
1029·1	-4	NE'N	2	bc	48	92	6	5	-	-	2-3	2-3	2700	0	*
1029·1	+2	NNE	3	z$_o$	48	97	5	1	-	-	2-3	2-3	1800	0	1
1029·9	-4	NW	1	F+	45	97	0	-	-	-	10	10	220	0	1
1029·8	+2	SE	2	F-	40	97	1	-	3	-	0	0	-	0	*
1029·7	+2	NNE	1	m	55	92	4	5	-	-	9+	9+	3500	0	*
1029·5	-2	ENE	2	m	56	85	4	5	-	-	9	9	4000	1	*
1029·8	0	NE'E	1	bef-	49	97	3	-	3	-	0	2-3	-	1	*
1029·3	0	-	0	F	45	97	1	-	-	-	10	10	4150	1	*
1027·7	-2	ENE	3	bc	56	85	7	-	-	6	0	2-3	-	0	3
1029·4	+2	E	1	F	42	97	1	-	-	-	10	10	4150	0	*
1027·5	-4	NE	4	bc	54	92	8	1	-	-	4-6	4-6	4000	1	*
1028·4	0	W'N	5	fs	44	97	8	-	-	2	0	4-6	-	0	2
1027·0	-6	ENE	2	bc	52	97	8	8	-	-	4-6	4-6	1500	1	2
1027·3	-4	E	2	bc	52	97	7	1	-	2	1	2-3	1800	1	2
1028·3	-6	NE'E	2	c	56	85	8	5	-	-	9	9	2800	1	2
1028·6	-2	E	1	c	54	85	8	5	-	-	9+	9+	3000	0	1
1029·5	-2	-	0	z$_o$	55	92	5	5	-	-	10	10	3500	0	*
1029·6	-2	-	0	z$_o$	54	92	5	5	-	-	10	10	4000	1	*
1029·8	+2	NNE	2	c	57	85	6	5	-	-	10	10	4000	0	1
1030·4	+6	-	0	bcf	40	97	3	5	3	5	1	4-6	4500	0	*
1029·3	0	W	3	z$_o$	51	85	5	5	-	-	9+	9+	4300	1	2
1027·7	+6	SW	3	bc	57	78	9	4	4	5	2-3	4-6	2500	0	3
1027·8	+10	W	2	z$_o$	55	97	6	5	3	8	4-6	7-8	4000	1	*
1028·6	+6	-	0	z$_o$	56	92	6	5	-	-	9+	9+	1800	1	*
1029·1	0	-	0	c	52	97	6	5	-	-	10	10	450	1	*
1028·8	0	S'W	1	c	56	85	8	5	-	-	9+	9+	500.0	0	1
1025·8	+2	SSW	3	rr	56	97	5	-	2	-	10	10	300	1	4
1027·2	0	-	0	c	45	97	8	8	7	5	4-6	9+	2000	1	1
1028·4	+4	SW	2	id	54	97	7	5	-	-	10	10	1500	1	*
1028·3	+16	NNE	1	c	53	97	5	5	-	-	9+	9+	200	1	1
1028·2	+12	WNW	1	fg	46	97	8	5	4	9	2-3	2-3	3000	1	*
1028·3	+18	NE	1	b	46	92	8	2	4	-	Tr	Tr	4000	1	3
1026·9	+2	S	4	c	59	85	8	2	7	-	2-3	9+	2500	0	2
1026·3	+2	S	1	c	57	75	8	5	-	-	9	9	3700	0	4
1028·5	0	-	0	c	55	85	8	5	-	-	9+	9+	3500	1	*
1027·9	0	S	1	c	55	92	8	5	1	-	7-8	9+	2500	1	*
1026·9	-4	SE	4	c	57	85	8	5	-	-	10	10	4000	1	3
1027·6	-2	S'E	1	c	56	85	8	5	-	-	9+	9+	2500	1	3

PAST 24 HOURS.

Temperatures. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 2nd Hrs. (36)
64	42	37	-	Tr	6·5
70	39	36	-	-	9·0
69	42	35	-	Tr	8·5
65	41	36	-	0·1	6·0
66	42	35	-	Tr	*
62	43	32	-	-	9·1
64	48	34	Tr	Tr	9·9
64	44	36	-	-	8·8
64	46	39	-	-	7·7
65	46	43	-	-	*
68	39	36	-	Tr	7·4
65	54	53	-	-	0·8
65	55	52	-	-	1·1
64	39	39	-	-	*
65	44	39	-	-	7·9
59	53	50	0·3	Tr	0·0
65	42	35	-	0·1	7·8
62	52	*	-	-	*
63	43	37	-	Tr	1·2
64	51	*	-	-	4·5
64	51	*	-	0·2	1·7
60	55	*	Tr	-	0·0
63	54	52	-	-	*
66	55	53	-	-	0·6
62	53	53	Tr	Tr	*
63	56	*	-	-	0·0
66	39	32	-	-	3·1
64	48	46	-	-	*
62	51	*	-	-	*
65	53	46	-	-	7·8
63	52	41	-	-	9·4
58	44	32	Tr	0·6	0·0
63	57	*	-	-	*
65	52	*	-	-	4·2
64	54	50	-	-	1·6
62	54	53	-	-	0·0
61	56	54	Tr	0·2	0·0
62	56	*	-	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	bfefewbc	bebczmo	bcmofafew	64	42	37	-	Tr	6·5	*	*	1
Croydon	217	bmb	bcybjf	bfemibm	70	39	36	-	-	9·0	*	*	1
Greenwich (Royal Observatory)...	149	bmb	bebbm	bmxf	67	41	28	-	Tr	8·5	69	90	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	68	42	41	-			55	83	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*									*
Camden Square	110	o	bc	*	66	45	38	-	-	*	*	89	*
Kensington	80	bcz	bc	*	66	44	34	-	-		88	85	*
Hampstead Observatory	450	bcm	bc	bc	65	48	41	-	-		*	84	*

FOREIGN OBSERVATIONS.

Stations.	Evening of 2nd October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 3rd October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	1005·9	SSW	4	pr	43	1011·7	SSE	2	c/r	41
Lisbon (18h and 07h)	1014·2	NE	4	c	73	1014·4	NE	4	bc	61
¶Madrid (18h and 07h)	1012·0	NE	4	c	63					
Cairo (Heliopolis) (18h and 06h)	1018·5	NE	3	b	75					
Toronto (13h and 01h)										
Washington (13h and 01h)						1025·1	SSE	3	o	72

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
81	59	-	-
68		-	
86		-	
77	66		*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 3rd

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·8	7h 2nd	0·1	16h 2nd

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

¶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.

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 4th October, 1941.

No. 29,171.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew) ...	1026·9	-20	NE'E	3	zo	62	65	6	1	-	-	Tr	Tr	2500
	Croydon ...	1026·9	-14	ENE	3	bc	63	65	7	1	-	-	2-3	2-3	2000
	S. Farnborough	1026·8	-16	ENE	3	zo	63	65	5	1	-	-	Tr	Tr	2500
	Boscombe Down	1027·1	-16	NE'E	3	b	62	55	7	-	-	1	0	Tr	-
	Thorney Island	1026·3	-16	ENE	3	b	65	65	7	1	-	1	Tr	Tr	4000
	Lympne ...	1026·0	-14	NNE	4	b	62	75	8	1	-	1	Tr	Tr	4000
	Manston ...	1026·8	-16	NE	4	b	62	75	7	1	-	1	Tr	Tr	2000
2	Shoeburyness ...	1027·6	-8	NNE	3	bc	62	65	8	1	-	-	2-3	2-3	2500
	Felixstowe ...	1027·7	-10	NE'E	3	b	63	65	8	1	-	-	Tr	Tr	2500
	Gorleston ...	1027·2	-6	E'N	2	bct	60	75	7	1	-	-	2-3	2-3	2500
	Mildenhall ...	1028·1	-12	E	3	bc	65	65	7	1	-	-	4-6	4-6	4000
	Cranwell ...	1028·9	-8	SE	2	bc	63	65	7	2	-	-	4-6	4-6	2500
3	Birmingham	1028·2	-6	E	3	bc	64	55	8	1	-	-	4-6	4-6	4000
	Upper Heyford	1028·0	-10	ENE	3	zo	64	55	6	1	-	-	1	1	2500
4	Ross-on-Wye ...	1027·4	-14	ENE	2	bc	63	65	7	2	-	-	2-3	2-3	4000
5	Hartland Point	1026·6	-8	ENE	2	bc	59	85	7	1	-	8	2-3	4-6	3000
	Bristol ...	1027·3	-16	ENE	3	b	63	55	7	1	-	-	Tr	Tr	3000
	Portland Bill ...	1026·2	-14	NE	4	bc	57	92	8	1	-	-	4-6	4-6	4000
	Plymouth ...	1026·5	-10	E	4	b	63	55	8	-	-	-	0	0	-
	The Lizard ...	1025·6	-10	E	4	bc	61	85	6	2	3	-	2-3	4-6	2000
	Scilly (St. Mary's)	1026·5	-8	ENE	2	bc	63	75	8	8	-	-	2-3	2-3	1500
	Guernsey ...														
6	Pembroke ...	1027·4	-10	SSE	3	c	63	85	6	2	6	-	4-6	7-8	3000
7	Holyhead (Valley)	1028·6	-2	—	0	c	60	75	8	5	-	-	10	10	3000
	Chester (Sealand)	1028·9	-10	NNE	1	zo	59	75	5	5	-	-	10	10	2800
8	Manchester ...	1029·3	-6	—	0	zo	60	75	6	5	-	-	9+	9+	3500
10	Spurn Head ...	1029·4	+2	E'N	3	bc	60	85	6	1	4	-	2-3	4-6	4000
	Catterick ...	1029·6	-6	S	1	c	63	55	8	5	-	-	9+	9+	5500
	Tynemouth ...	1029·6	0	E	2	zo	59	97	6	8	-	-	7-8	7-8	3200
11	St. Abbs Head	1028·8	+2	—	0	c	60	85	8	5	7	-	7-8	10	3000
	Leuchars ...	1028·3	-2	ENE	2	c	61	85	7	5	-	-	9+	9+	1800
12	Renfrew (Abbots I.)	1029·0	0	SW'S	2	c	61	65	9	5	-	-	9+	9+	4000
	Eskdalemuir ...	1028·8	-2	SW	1	c	60	75	8	5	-	-	9+	9+	1500
	Point of Ayre ...	1029·4	0	S'E	1	c	60	85	8	5	1	-	9+	10	6000
13A	Tiree ...	1027·1	+4	S	2	c	59	85	8	5	-	-	9+	9+	2500
13B	Stornoway ...	1025·7	-6	S	4	dd	56	97	6	5	2	-	9	10	1000
15	Dalwhinnie ...	1028·7	+6	SW	2	o	56	85	8	5	-	-	10	10	2500
	Aberdeen ...	1028·9	-2	E'N	1	o	56	92	6	5	-	-	10	10	500
	Wick ...	1028·3	-6	SE	3	ido	54	92	8	5	-	-	7-8	9+	900
16	Sumburgh ...	1029·2	0	S	2	bc	55	75	8	1	-	2	1	4-6	3000
17	Blacksod Point ...	1026·1	0	S	4	c	59	85	8	8	-	-	9+	9+	2500
18	Malin Head ...	1026·8	-2	S	2	c	61	65	8	5	-	-	9	9	5700
	Aldergrove ...	1028·8	-4	S	1	c	56	75	7	7	-	-	10	10	2000
19	Birr Castle ...	1027·9	-4	S	1	c	59	75	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1026·8	-6	SSE	2	c	61	75	9	8	-	-	10	10	4000
	Roches Point ...	1027·6	-6	E	3	ido	58	85	8	5	-	-	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 3rd October — PAST 24 HOURS

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 3rd (37)	Weather 13h.–18h. 3rd (38)	Weather 18h. 3rd to 1h. 4th (39)	Weather 1h.–7h. 4th (40)
1	London (Kew) ...	1026·2	0	NE'E	3	zo	60	65	6	-	5	-	0	Tr	-	1	•	bFeFebfb	bcbzoybzo	bzobccmo	cmo
	Croydon ...	1025·0	-12	NE	2	zo	57	75	6	-	-	1	0	Tr	-	1	•	oFbc	bcdy	bzoome	omeofe
	S. Farnborough	1025·8	0	—	0	zo	58	75	6	-	-	9	0	Tr	-	0	•	bfb	bzo	bzocbcc	cmwfmo
	Boscombe Down	1025·5	-2	NEE	3	b	59	65	7	-	-	-	0	0	-	0	•	bFmbmo	b	b,bmow	bmoomof
	Thorney Island	1024·8	-2	NE	2	b	59	65	7	-	-	1	0	Tr	-	0	*	bfgwbmob	byb	bbmo	bmocrr
	Lympne ...	1025·2	+2	NNE	3	zo	56	97	6	5	-	1	Tr	2-3	800	0	§	bbcb	bbmo	bbcmow	bcwcmroro
	Manston ...	1025·7	-4	NE	4	zo	57	92	6	1	-	-	4-6	4-6	1200	0	•	bcbmo	bmobcmo	bbcmow	bbccmow
2	Shoeburyness ...	1026·3	-2	NE'N	2	b	55	92	7	-	4	-	0	Tr	-	0	•	bcmobc	bcb	bbwmo	bmcmo
	Felixstowe ...	1026·2	-4	NNE	3	b	56	85	7	5	-	1	Tr	Tr	1500	0	2	bfbmob	b	bmow	bmowcmo
	Gorleston ...	1027·4	-4	NE'N	4	b	58	75	7	-	-	-	0	0	-	0	3	ofbc	bcb	bw	bwc
	Mildenhall ...	1027·6	+2	ENE	2	b	55	92	7	-	4	-	0	Tr	-	0	•	bFebmobc	b	bbmobFe	bFebm
	Cranwell ...	1028·0	+2	ENE	3	zo	55	85	6	-	-	1	0	1	-	0	•	cmfzobzoy	bcbbmo	bmobfcf	cfcmbfcf
3	Birmingham	1026·8	-4	NE	2	zo	60	75	5	5	-	-	4-6	4-6	2500	1	•	cbc	bcz	bcz	bcof
	Upper Heyford	1026·8	+4	NE	2	zo	56	75	6	-	-	-	0	0	-	1	•	bfmmzo	bzoybzo	bzobmoc	cmfofe
4	Ross-on-Wye ...	1026·0	-8	E	1	zo	57	55	6	-	-	-	0	0	-	1	•	Fbzbc	bcbzo		
5	Hartland Point	1024·9	-4	NE	3	b	60	85	7	-	4	-	0	Tr	-	0	3	bcbbc	bcb	b	bbcc
	Bristol ...	1026·2	0	ENE	2	zo	56	75	6	-	-	-	0	0	-	0	•	oF,by	bybzo	bm	
	Portland Bill ...	1024·2	-6	NE	4	c	60	85	7	5	-	-	7-8	7-8	2500	1	4	bc	bcc	c	co
	Plymouth ...	1025·0	-6	E	2	b	59	75	8	-	-	1	0	Tr	-	0	3	b	by	bmo	bmocmow
	The Lizard ...	1024·6	+2	ENE	3	bc	56	85	7	7	-	-	2-3	2-3	3000	0	3	bc	bc	bbc	bcc
	Scilly (St. Mary's)	1025·1	-2	E'N	2	bc	57	92	7	8	-	-	2-3	2-3	1500	1	2	bc	bc	bcbw	bbc
	Guernsey ...																				
6	Pembroke ...	1026·1	-8	NNE	3	bc	57	85	7	-	7	-	0	2-3	-	0	2	cmo	bcmo	bmow	bbcmow
7	Holyhead (Valley)	1026·9	-6	NE	2	zo	58	85	5	5	-	-	9+	9+	5500	0	1	c	cmo	cmom	bcbmcmow
	Chester (Sealand)	1027·6	-4	ENE	1	m	55	85	4	5	-	-	7-8	7-8	3500	0	•	cmmo	cmocmw	cmbcbfw	bffcbcf
8	Manchester ...	1028·0	-4	NE	1	m	53	92	4	5	-	-	4-6	4-6	4000	1	•	cmofczo	bcmo	bcmbffw	bffmow
10	Spurn Head ...	1028·6	0	ENE	2	b	57	97	5	5	-	-	0	0	-	0	1	bc	b	bcmo	bcc
	Catterick ...	1028·6	+2	S	1	zo	57	85	6	5	7	-	Tr	2-3	3500	0	*	fwfczoy	cyczobmo	cfbcfcf	bcfbfcf
	Tynemouth ...	1029·0	-2	SE	2	bc	55	85	6	-	3	1	0	4-6	-	1	2	cmo	cbcmo	bccm	cm
11	St. Abbs Head	1028·1	-2	SE	1	c	58	75	8	5	5	-	7-8	9+	3000	0	2	c	c	c	c
	Leuchars ...	1027·9	-2	—	0	zo	56	92	6	5	-	-	10	10	2500	0	•	cmowc	ccmo	cmocmcmo	cmo
12	Renfrew (Abbots I.)	1028·1	-4	SW'W	1	c	59	75	8	5	-	-	10	10	4000	1	•	cmoc	c	ccmo	cmow
	Eskdalemuir ...	1028·1	-2	—	0	o	56	85	8	5	-	-	10	10	2500	1	•	ofec	c	ccmo	cmoc
	Point of Ayre ...	1028·3	-2	SSW	1	c	57	92	8	5	-	-	9+	9+	5000	0	1	c	cbic	c	czobc
13A	Tiree ...	1027·2	0	SSW	2	c	56	92	8	5	-	-	9+	9+	2500	0	*	c	cido	c	c
13B	Stornoway ...	1025·8	+6	S	5	c	55	92	8	5	7	5	4-6	9	2000	1	4	cdd	cdd	c	c
15	Dalwhinnie ...	1028·6	0	SW	2	c	53	75	8	5	-	-	9+	9+	4000	0	•	o	oc		co
	Aberdeen ...	1028·4	0	SSE	1	of+	54	97	3	5	-	-	10	10	200	1	2	idoozo	ozoff	offmo	omoc
	Wick ...	1027·3	+2	S	2	c	54	97	7	5	7	1	7-8	9+	2200	1	*	bcfgcido	idorodidoc	cmocol	bcfy
16	Sumburgh ...	1028·3	-6	SE	3	c	53	92	8	5	2	-	7-8	10	2500	1	3	bbc	bcc	r	d
17	Blacksod Point ...	1025·3	-2	S	2	c	59	75	8	-	7	-	0	10	-	0	3	c	c	c	bc
18	Malin Head ...	1026·4	-2	S	3	c	57	85	8	8	-	-	7-8	7-8	4000	0	2	c	c	c	c
	Aldergrove ...	1027·9	-2	SE	1	c	56	85	8	5	-	-	10	10	3500	1	•	c	c	c	c
19	Birr Castle ...	1026·5	-2	S	1	c	58	75	8	5	-	-	10	10	4000	0	•	c	c	*	b
20	Valentia Obsy. †	1025·5	-6	SE	2	bc	58	85	9	2	-	-	2-3	4-6	2500	1	2	c	cprobc	bbccw	cbcw
	Roches Point ...	1025·9	-8	E	3	bc	57	85	8	5	-	5	1	2-3	2500	1	4	cido	bc	bcw	bcwzo

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_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

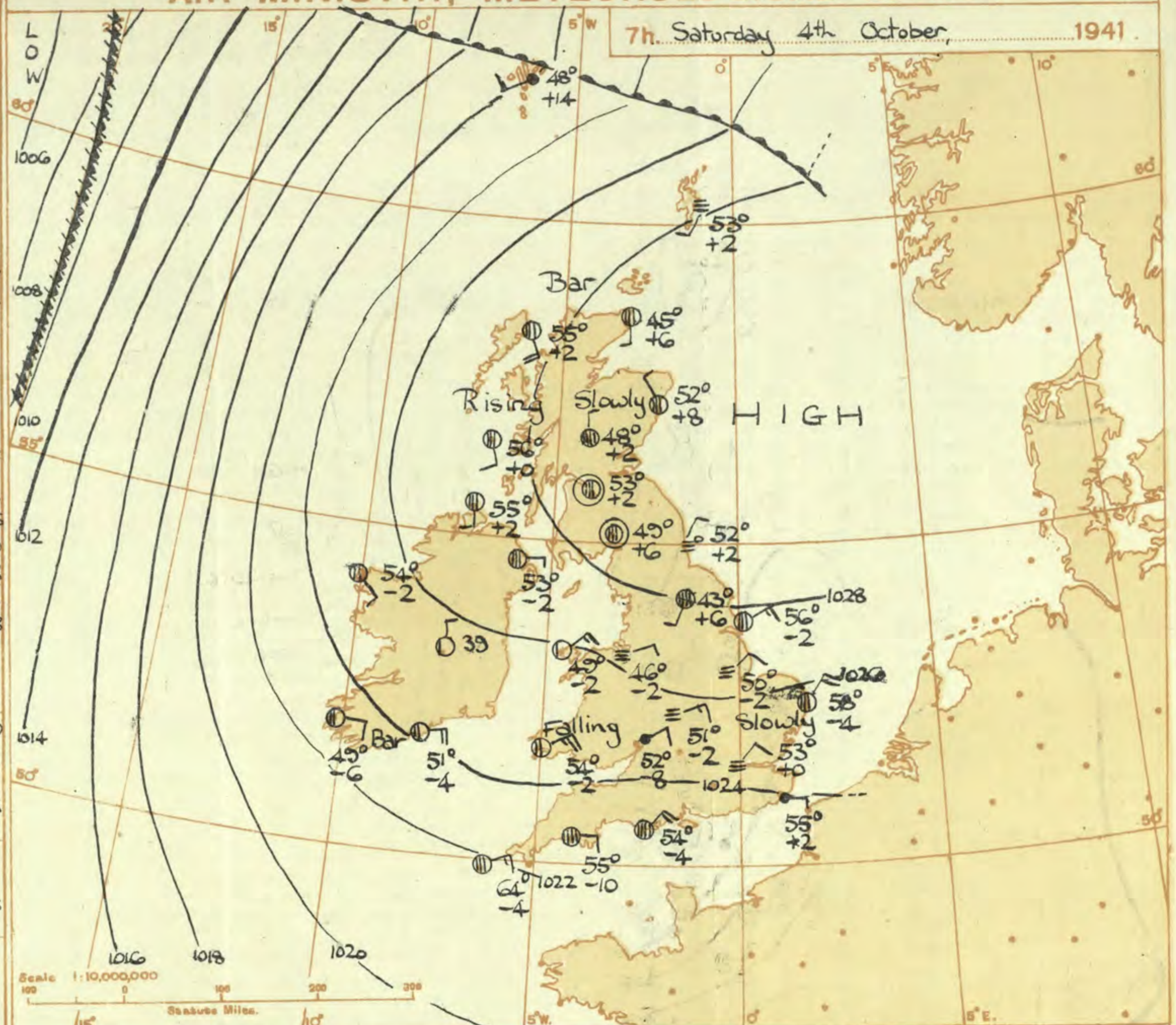
Abridged observations of additional stations in the
AVIATION WEATHER CODE

III	13h. G.M.T. 3rd October $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 4th October $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	72	02965	11426	5-	21748	14358				5-	02765	10225
115	52	10835	16388	52	02935	18328	52	02944	18327	51	02941	20227
203	6-	63738	16468	53	02935	20428	5-	03939	14328	5-	02948	16428
206	57	02855	00056	5-	02867	22227	5-	01964	22124	53	02865	24125
210	86	02855	11268	5-	04847	00028	54	01861	16313	50	02964	15117
220	52	21626	18358	83	02845	17317				52	02853	12218
230	5-	02968	16228	5-	02968	12128	5-	02868	00028	5-	02868	00028
245	53	02737	04257	5-	41518	08148	5-	08468	00028	54	05667	02127
260	5-	02868	24228	5-	05667	00027	5-	05665	00028	5-	05568	00028
278	5-	02878	15228	54	02867	08227	5-	05668	00028	5-	05678	12228
279	5-	02967	24227	5-	02857	22337	5-	05666	16126	50	05563	07312
285	5-	03858	08328	5-	05647	04227				50	01740	28315
288	57	02854	18115	10	02762	12126	53	05574	00027	--	48009	18149
575	5-	02868	13228	5-	02368	12128	5-	02768	00028	5-	02768	06125
301				5-	08466	04126	5-	08464	09244	5-	04465	11245
321	53	01762	02224	54	00672	04113	--	43009	03149	--	46109	01249
299				57	01754	02115	--	48009	00049	5-	05645	00015
292	5-	02768	12148	53	01763	08114	00	47190	00040	50	08445	32145
310	--	01545	04315	--	01535	04315				--	46109	04549
614	83	01764	06214	40	05663	04113	5-	45354	04244	5-	05538	32348
333	5-	02768	00028	5-	05664	28224	00	05690	00010	00	00890	00000
334	--	05437	04128	--	05564	04215				--	04309	00028
340	5-	05667	04227	03	08490	02123	5-	47327	28146	5-	08447	31247
136	10	02765	04245	00	05690	06210	00	05590	03200	5-	05636	05416
336	13	01762	28315									
350	10	05653	04303	00	05690	04210	--	48109	06209	--	57109	04309
368	10	05551	06211	00	05690	06201	00	05590	06100	5-	05628	06428
379	10	01762	04302	00	05690	04200	5-	08428	04228			
390	10	01752	10312	00	00790	04200	00	47190	04340	5-	45328	04248
382	13	05651	06301	00	05650	02200	5-	04546	01816	--	44309	04349
438	50	01772	04503									
430							03	05690	04412			
409	10	05751	08201	00	00890	10201	00	05690	01200	53	05535	05205

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.
$C_L C_M$ = Form of low and medium cloud—See page 1.
V = Visibility. F = Force of wind—See page 4.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 4th October 1941



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 4th October, 1941
1 S.E. England	Moderate or light E. wind; cloudy: occasional rain. Average temperature.
2 E. England … 3 E. Midlands … 4 W. Midlands …	Moderate or light east wind, cloudy, slight rain or drizzle in south, fog at night and in early morning. Rather low temperature.
5 S.W. England 6 South Wales …	Moderate east wind; cloudy: occasional rain. Average temperature.
7 North Wales … 8 N.W. England 9 N. Midlands … 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light or moderate S.E. wind; fair during day, extensive fog tonight. Average temperature.
13A. W. Scotland 13B. N.W. Scotland	Light S. wind, fair. Average temperature.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light S. to S.E. wind, mainly fair, coastal fog later. Average temperature
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light S.E. wind; fair, local fog in early morning. 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.

A large anticyclone centred to the east covers most of the British Isles and a feeble trough of low pressure along the South Coast is moving slowly North. Weather will be cloudy with occasional rain in the South, but mainly fair elsewhere during today. Fog will occur extensively tonight in Northern England.

FURTHER OUTLOOK.

Mainly fair, but fog night and morning.

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. 0.269/4120. Wt. 8/76 D.6034 6p.848 9300 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

Saturday 4th. October,

1941.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T. ; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 4th October 1941.

No. 29,171

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025·4	−4	NE	1	m	53	97	4	5	-	-	10	10	800
	S. Farnborough	226	1024·9	−10	NE	2	m	51	92	4	5	-	-	10	10	800
	Boscombe Down	417	1025·3	−2	ENE	3	zo	51	92	5	-	3	-	0	Tr	-
	Thorney Island	10	1024·0	−8	NE	3	zo	55	92	6	-	3	-	0	2-3	-
	Lympne ...	346	1024·4	−6	NE	2	zo	55	97	5	-	3	-	0	7-8	-
	Manston ...	154	1024·4	−6	ENE	3	zo	58	85	6	-	3	1	0	4-6	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1025·3	−6	NE	4	zo	59	85	6	5	-	-	Tr	Tr	1500
	Gorleston ...	5	1026·5	−8	NE'E	4	b	59	85	6	-	-	-	0	0	-
	Mildenhall ...	19	1026·5	−10	NE'N	1	bf+	40	97	1	-	-	-	0	0	-
	Cranwell ...	240	1028·1	−2	NE	3	cf	50	97	3	5	-	-	9	9	500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026·7	−2	NE	2	m	49	97	4	5	-	-	10	10	200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024·0	−8	ENE	3	b	55	85	7	-	-	-	0	0	-
	Bristol ...	209	1026·3	+2	-	0	m	47	92	4	-	-	-	0	0	-
	Portland Bill ...	32	1023·1	−10	NE	4	c	55	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1024·2	−6	E'S	3	zo	54	85	7	-	-	1	0	1	-
	The Lizard ...	240	1023·0	−12	NE	4	bc	55	85	7	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1023·5	−12	NE	2	b	54	97	7	-	-	-	0	0	-
	Guernsey ...	175														
6	Pembroke ...	142	1025·4	−6	NE'E	4	b	53	97	6	-	-	-	0	0	-
7	Holyhead (Valley)	26	1026·5	−6	NE	2	m	52	92	4	-	3	-	0	4-6	-
	Chester (Sealand)	16	1027·7	−2	-	0	bf+	49	97	3	-	-	-	0	0	-
8	Manchester ...	235	1028·0	−6	-	0	bf	46	97	3	-	-	-	0	0	-
10	Spurn Head ...	29	1028·3	−2	ENE	3	zo	56	92	6	5	-	-	9+	9+	2500
	Catterick ...	175	1028·9	−8	-	0	cf	49	92	3	5	-	-	9+	9+	4500
	Tynemouth ...	108	1029·1	0	-	0	m	53	92	4	5	-	-	9+	9+	2500
11	St. Abbs Head	280	1028·3	0	SE	2	c	53	97	8	5	7	-	7-8	9+	2500
	Leuchars ...	36	1028·3	0	-	0	zo	55	92	6	5	-	-	10	10	3200
12	Renfrew (Abbotsl.)	19	1028·5	−2	-	0	zo	55	92	5	5	-	-	10	10	3700
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1027·5	−4	E.SE	2	c	57	92	7	5	3	-	7-8	9+	2000
13A	Tiree	22	1027·3	0	SSE	2	c	55	92	8	5	-	-	9+	9+	2800
13B	Stornoway ...	80	1026·5	+2	S	4	c	56	92	7	5	7	-	7-8	10	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1027·6	+2	SSW	2	c	54	85	7	5	-	-	9+	9+	3000
16	Sumburgh ...	30	1028·4	0	SSE	3	d.do	52	97	5	5	-	-	10	10	300
17	Blacksod Point	18	1025·4	−2	SE	2	c	57	85	8	-	7	-	0	9+	-
18	Malin Head ...	84	1026·5	−4	SE	2	c	54	85	7	5	-	-	9	9	4000
	Aldergrove ...	268	1027·9	−4	-	0	c	54	85	7	5	-	-	10	10	3700
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1024·5	−12	E'S	3	c	55	85	8	5	-	-	9	9	4000
	Roches Point	22	1025·3	−6	E	3	bc	52	97	8	-	-	5	0	2-3	-

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1024·6	−4	NE	2	Zp	55	92	3	5	-	-	10	10	2500	1	*
1024·5	0	NE	2	m f-	53	97	3	-	-	-	10	10	1150	1	*
1024·4	−2	NE'N	3	m f	53	97	4	5	-	-	10	10	300	1	*
1024·5	−2	NE	3	o f	52	97	5	5	-	-	10	10	100	0	*
1023·3	0	NE	3	rr	55	97	5	5	-	-	10	10	1500	1	*
1024·0	+2	E	1	rorp	55	97	5	5	-	-	10	10	1200	1	§
1024·2	+4	ENE	2	zo	57	92	6	5	-	-	10	10	1000	0	*
1024·4	0	NNE	3	m	56	92	4	5	-	-	10	10	1500	0	*
1023·3	−4	NE'E	4	zo	59	85	6	5	-	-	10	10	1500	0	3
1025·6	−4	NE'N	4	zo	58	85	6	8	-	-	7-8	7-8	1500	0	4
1026·1	−2	NNE	2	m	51	97	4	5	-	-	4-6	4-6	4000	0	*
1027·3	−2	NE	2	f-	50	97	3	5	-	-	9+	9+	500	1	*
1025·8	−2	ENE	3	of	51	97	3	5	-	-	10	10	450	1	*
1025·8	−2	NE	3	f-	52	97	2	-	-	-	10	10	1150	1	*
1025·3	−8	NE'E	2	ido	52	97	5	5	-	-	10	10	450	1	*
1023·0	−2	ENE	3	c	53	92	7	5	-	-	9+	9+	1700	0	3
1025·3	−2	NE	2	df	50	97	3	5	-	-	10	10	200	0	*
1022·3	−4	NE	4	o	54	92	7	5	-	-	10	10	2500	1	4
1022·5	−10	E	2	zo	55	97	6	5	-	-	10	10	1000	0	3
1021·6	−4	ENE	4	c	56	92	5	5	2	-	7-8	9+	1500	0	4
1021·9	−4	ENE	3	c	64	97	6	5	-	-	9	9	1200	1	2
1024·5	−2	NE'E	5	bc	51	97	6	2	4	-	2-3	4-6	2500	0	2
1025·3	−2	NE	3	zo	49	92	5	-	-	-	0	0	-	0	1
1027·2	−2	ENE	1	bcf	46	97	3	5	-	-	4-6	4-6	3000	0	*
1027·7	−2	NE'E	1	zo	44	97	6	-	-	-	0	0	-	1	*
1027·8	−2	NE'E	3	c	56	97	6	5	-	-	9+	9+	4000	0	3
1029·2	+6	SSW	1	of+	43	97	2	5	-	-	10	10	700	0	*
1029·1	+2	NNE	1	m	52	97	4	8	-	-	7-8	7-8	2400	1	2
1028·7	+6	SSE	2	c	53	85	7	5	2	-	7-8	10	2500	0	2
1028·5	+4	-	0	zo	54	92	6	5	-	-	10	10	3200	0	*
1028·3	+2	-	0	zo	53	92	5	5	-	-	10	10	5000	0	*
1028·8	+6	-	0	c	49	97	7	5	-	-	9+	9+	1500	1	*
1027·2	0	SE'S	3	b	56	92	7	2	4	5	Tr	1	1800	0	2
1027·3	0	SSE	2	c	56	92	8	5	-	-	9+	9+	2800	0	3
1027·1	+2	SSE	4	c	55	92	8	5	7	-	7-8	10	2500	1	2
1028·4	+2	N	1	o	48	92	7	5	-	-	10	10	4000	0	*
1029·6	+8	NW'N	1	c	52	92	7	5	-	-	10	10	2500	1	1
1028·4	+6	S	1	fg	45	97	8	5	-	2	Tr	9+	3500	1	*
1028·1	+2	SSW	1	f+	53	97	2	-	-	-	10	10	<150	1	2
1024·8	−2	SE	1	bc	54	92	8	4	-	3	2-3	4-6	2500	0	2
1026·4	+2	S	1	c	55	75	8	5	-	-	9	9	3700	0	3
1026·3	−2	E	1	c	53	92	7	5	-	-	9+	10	4000	1	*
1025·4	−2	N	1	b	39	97	7	-	-	-	0	0	-	0	*
10231	−6	E'S	2	bc	49	92	8	5	3	3	Tr	4-6	4000	1	2
1023·8	−4	E	4	zo	51	97	6	5	-	-	4-6	4-6	2500	1	3

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine ...3rd Hrs. (36)
63	53	48	Tr	-	7·2
63	51	47	-	-	8·1
65	51	43	-	-	7·0
64	50	44	-	Tr	8·8
66	52	49	-	0·2	*
63	53	47	-	0·3	10·1
62	53	49	-	Tr	10·1
63	52	44	-	-	9·7
63	53	49	-	-	9·4
61	57	55	-	-	*
65	40	34	-	Tr	8·1
66	47	*	-	0·1	6·8
65	49	43	-	-	4·5
64	48	45	-	-	*
64	45	37	-	Tr	4·3
63	52	51	-	-	9·7
64	45	42	-	Tr	4·9
61	53	*	-	-	*
64	51	41	-	Tr	9·3
63	53	*	-	-	9·7
63	53	*	-	-	7·5
64	50	*	-	-	7·3
60	48	41	-	-	*
60	42	35	-	-	0·0
62	42	33	-	-	*
63	55	*	-	-	5·3
65	42	33	-	-	3·4
65	52	46	-	-	*
62	52	*	-	-	*
61	52	*	-	-	0·0
57	55	*	0·6	-	0·0
57	47	46	-	-	0·0
56	51	47	Tr	-	0·1
55	45	41	Tr	-	*
57	51	51	-	1	8·7
60	52	*	-	-	*
62	50	*	-	-	0·0
59	39	35	-	-	0·0
62	49	41	Tr	Tr	0·3
61	49	*	0·2	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm. (Yesterday.)	Rainfall. Night. mm. (Yesterday.)	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	ofefebf	bc,zybz	bccm	63	53	48	Tr	-	7·2	*	*	4
Croydon	217	ofbc	bcdy	bmeofe	63	51	47	-	-	8·1	*	*	4
Greenwich (Royal Observatory)...	149	fb	byb	bcm	64	51	46	-	Tr	8·6	*	92	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	60	53	50	-	-		49	89	*
Regents Pk. (Botanic Gardens)†...	168	*	*	*	67	52	45	-	-		64	93	*
Camden Square	110	b	b	*	69	52	47	-	-	*	*	92	*
Kensington	80	bz	bc	*	66	53	47	-	-		66	93	*
Hampstead Observatory	450	bc	bc	0	62	49	44	-	-		*	98	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 4th...

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
0·8	9h 3rd	0·1	0-7h 4th

FOREIGN OBSERVATIONS.

Evening of 3rd October ... Morning of 4th October ...

Stations.	Evening. Barom. mb.	Evening. Wind. Direc.	Evening. Wind. Force.	Evening. Weather.	Evening. Temp. °F.	Morning. Barom. mb.	Morning. Wind. Direc.	Morning. Wind. Force.	Morning. Weather.	Morning. Temp. °F.
Reykjavik (18h and 07h)	1011·4	SE'S	5	pr	52	1008·0	SE	5	ir.	48
Lisbon (18h and 07h)										
¶Madrid (18h and 07h)						902·8	NNE	1	c	54
Cairo (Heliopolis) (18h and 06h)						1018·6	NE	2	b	71
Toronto (13h and 01h)						1008·9	ESE	4	o	66
Washington (13h and 01h)	1024·0	NNW	2	id.	67	1016·6	S	4	c	78

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
	*		*
	63		
85	66	*	*

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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

SECRET

THE DAILY WEATHER REPORT

AIR MINISTRY. OF THE METEOROLOGICAL OFFICE, LONDON. BRITISH SECTION

Sunday 5th October 1941. No. 2172

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

District.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1024.4	-2	ENE	2	3	59	85	4	5	-	-	10	10	2500
	Croydon	1024.3	-2	ENE	3	3	60	92	5	5	2	-	7-8	10	800
	S. Farnborough	1024.1	-2	NE	2	3	58	92	4	5	-	-	10	10	600
	Boscombe Down	1024.2	-2	ENE	3	0/3	57	85	5	5	-	-	10	10	600
	Thorney Island	1023.2	-2	ENE	3	3	61	85	6	5	3	1	2-3	9+	1500
	Lympne	1023.8	-6	ESE	1	3	63	75	5	-	7	-	0	9+	-
	Manston	1024.8	+2	ESE	2	3	62	85	5	-	3	-	0	9+	-
2	Shoeburyness	1024.5	-4	NE	3	3	61	85	4	5	-	-	10	10	1100
	Felixstowe	1024.7	0	ENE	3	3	61	85	6	5	7	2	7-8	9	1000
	Gorleston	1025.9	0	NE	3	3	60	85	6	5	7	-	4-6	9+	2400
	Mildenhall	1025.7	-2	E	3	3	62	85	6	5	-	-	10	10	1500
	Cranwell	1026.1	-8	E	5	3	61	75	7	8	3	-	7-8	9	1000
3	Birmingham	1025.6	-6	E	2	2	58	85	6	5	-	-	9+	9+	1500
	Upper Heyford	1025.1	-6	ENE	3	3	56	92	5	5	2	-	4-6	10	600
4	Ross-on-Wye	1024.6	-8	ENE	3	2	56	92	6	5	-	-	10	10	800
5	Hartland Point	1022.3	-6	NE	3	3	56	85	6	5	-	-	10	10	1500
	Bristol	1024.4	-6	ENE	3	3	55	92	5	6	2	-	10	10	700
	Portland Bill	1021.7	-4	ENE	4	3	59	92	7	5	-	-	10	10	2500
	Plymouth	1021.3	-5	ENE	3	3	57	92	6	5	2	-	9+	10	700
	The Lizard	1020.7	-4	ENE	5	3	57	92	5	5	-	-	10	10	1500
	Scilly (St. Mary's)	1021.2	-4	E	4	0	58	92	5	5	-	-	10	10	1100
	Guernsey														
6	Pembroke	1023.6	-4	-	4	0	60	75	7	-	7	-	0	7-8	-
7	Holyhead (Valley)	1024.4	-6	-	0	0	64	55	7	-	4	-	0	tr	-
	Chester (Sealand)	1026.1	-10	ESE	3	0	61	65	5	5	-	-	4-6	4-6	1500
8	Manchester	1026.5	-8	E	3	0	62	65	6	5	-	-	4-6	4-6	850
10	Spurn Head	1027.5	-2	ENE	4	2	61	85	6	-	-	-	0	0	-
	Catterick	1028.4	-14	ESE	1	0	60	75	6	8	3	-	7-8	9	1200
	Tynemouth	1029.2	-4	ESE	2	0	54	92	2	8	-	-	7-8	7-8	2800
11	St. Abbs Head	1028.8	-2	S	2	0	56	92	8	5	5	-	7-8	9	2500
	Leuchars	1029.2	0	E	2	0	57	92	6	5	-	-	9+	9+	1200
12	Renfrew (Abbotsl.)	1027.9	-6	ESE	2	0	63	55	6	5	-	-	9+	9+	5000
	Eskdalemuir	1027.5	-8	E	3	0	60	65	6	7	-	-	4-6	4-6	2500
	Point of Ayre	1026.8	-6	SSE	4	0	61	85	6	-	-	-	0	0	-
13A	Tiree	1027.7	0	SSE	2	0	58	85	7	5	-	-	9+	9+	2800
13B	Stornoway	1028.6	0	SE	4	0	57	75	8	5	7	-	7-8	9+	2500
15	Dalwhinnie	1029.3	0	SE	2	0	56	65	7	5	-	-	9+	9+	4000
	Aberdeen	1030.4	+2	E	1	3	57	85	6	5	-	-	9+	9+	4500
	Wick	1029.4	-2	S	2	0	60	75	7	7	3	-	4-6	7-8	7200
16	Sumburgh	1029.6	-2	SW	2	0	57	85	8	-	3	1	0	4-6	-
	Blacksod Point	1024.1	-4	SE	2	0	62	75	8	-	-	-	0	0	-
18	Malin Head	1025.8	-4	ENE	2	0	58	85	6	2	-	-	4-6	4-6	1500
	Aldergrove	1026.4	-6	ESE	3	0	61	65	6	2	-	-	2-3	2-3	2500
19	Birr Castle	1023.5	-18	N	1	0	63	75	7	-	-	8	0	4-6	-
20	Valentia Obsy. †	1022.3	-8	ESE	3	0	65	65	7	-	-	-	0	0	-
	Roches Point	1022.9	-6	E	4	0	61	85	7	5	-	-	2-3	2-3	2500

OBSERVATIONS at 18h. G.M.T. 4th October

District.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility. 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1024.2	+6	ENE	2	3	60	85	5	5	-	-	10	10	1500	1	*
	Croydon	1024.1	+2	ENE	2	3	64	92	4	5	-	-	10	10	450	1	*
	S. Farnborough	1023.9	+8	ENE	3	3	59	92	4	5	-	6	4-6	9	700	0	*
	Boscombe Down	1023.5	-2	ENE	3	3	57	92	4	5	-	-	10	10	800	0	*
	Thorney Island	1022.9	+2	ESE	2	3	60	85	5	-	7	2	0	7-8	-	0	*
	Lympne	10230	+10	NNE	-	3	57	92	4	-	-	2	0	1	-	0	*
	Manston	1024.7	+8	ENE	2	3	57	97	4	-	-	1	0	2-3	-	0	*
2	Shoeburyness	1024.4	+8	ENE	2	3	57	92	4	5	-	-	4-6	9	5700	0	*
	Felixstowe	1024.7	+2	ENE	3	3	59	92	5	5	3	2	7-8	9	800	1	*
	Gorleston	1025.7	-2	ENE	2	3	58	85	6	5	-	-	2-3	2-3	2500	0	*
	Mildenhall	1025.4	+2	ENE	2	3	55	97	6	-	7	-	0	2-3	-	0	*
	Cranwell	1025.8	0	E	4	3	57	92	6	5	2	-	7-8	9	1000	0	*
3	Birmingham	1024.3	-4	E	3	3	57	92	4	6	-	-	10	10	450	1	*
	Upper Heyford	1024.5	+2	ENE	3	3	58	92	5	5	7	-	9	10	1000	1	*
4	Ross-on-Wye	1023.9	-6	E	2	3	57	92	5	5	-	-	10	10	800	1	*
5	Hartland Point	1021.2	-6	E	3	3	57	92	6	5	4	6	4-6	7-8	1500	0	3
	Bristol	1023.8	-2	ENE	2	3	57	92	5	6	2	-	9+	10	900	1	*
	Portland Bill	1021.4	-4	ENE	4	3	58	92	7	5	-	-	10	10	2500	1	4
	Plymouth	1021.3	-2	ENE	4	3	58	82	5	5	-	-	2-3	2-3	1000	0	3
	The Lizard	1020.3	+4	ENE	3	3	58	97	4	5	-	-	10	10	600	0	3
	Scilly (St. Mary's)	1019.9	-6	ESE	3	3	58	97	5	5	1	-	7-8	10	1200	1	4
	Guernsey																
6	Pembroke																
7	Holyhead (Valley)	1024.1	0	NNW	1	6	57	85	7	5	4	-	1	2-3	5000	0	1
	Chester (Sealand)	1024.9	-4	ENE	1	3	60	75	5	5	-	-	10	10	2500	0	*
8	Manchester	10258	-2	NNE	3	3	58	75	6	5	5	-	7-8	9+	2500	1	*
10	Spurn Head	1026.3	-2	ENE	3	3	57	92	6	1	1	8	4-6	4-6	5700	0	3
	Catterick	1028.3	+8	ENE	1	3	54	92	4	5	4	-	Tr	Tr	3000	0	*
	Tynemouth	10290	0	ENE	2	2	54	92	6	5	-	-	9+	9+	3000	0	2
11	St. Abbs Head	1029.0	0	SE	2	2	59	85	5	4	4	2	2-3	7-8	3000	0	2
	Leuchars	1028.2	+4	WNW	2	2	56	92	7	5	-	-	9	9	4000	0	*
12	Renfrew (Abbotsl.)	1027.8	+6	ENE	3	2	59	65	6	6	3	1	4-6	7-8	5000	0	*
	Eskdalemuir	1027.8	+2	NE	2	2	50	85	6	-	-	1	0	2-3	-	1	*
	Point of Ayre	1025.6	-4	SSE	3	3	58	92	7	4	-	-	Tr	Tr	3000	0	2
13A	Tiree	1027.5	-2	E'N	1	3	53	92	7	5	-	-	4-6	4-6	3500	0	5
13B	Stornoway	1028.1	-4	ESE	2	3	54	92	7	-	-	5	0	1	-	1	1
15	Dalwhinnie	10301	+2	SE	1	3	53	75	7	5	-	-	9	9	2500	0	*
	Aberdeen	1030.4	+2	SE	1	3	55	85	6	5	-	-	10	10	4000	0	4
	Wick	1030.3	+4	SE	2	3	54	85	8	5	-	-	10	10	4000	0	*
16	Sumburgh	1030.9	0	SW	1	3	53	92	9	5	-	-	9	9	4000	1	*
	Blacksod Point	1022.9	-6	-	0	3	57	85	6	-	-	-	0	0	-	0	0
18	Malin Head	10250	-2	E	3	3	57	85	6	-	-	-	0	0	-	0	2
	Aldergrove	10258	0	-	0	3	58	92	6	-	-	-	0	0	-	0	*
19	Birr Castle	1022.9	-2	N	1	3	57	85	8	-	4	8	0	4-6	-	0	*
20	Valentia Obsy. †	10209	-6	ESE	4	3	59	75	7	5	-	-	1	1	4000	1	4
	Roches Point	1021.8	-6	ES	4	3	57	85	8	5	-	-	9	9	2500	0	4

PAST 24 HOURS.

Weather. 7h.—13h. 4th (37)	Weather. 13h.—18h. 4th (38)	Weather. 18h. 4th to 1h. 5th (39)	Weather. 1h.—7h. 5th (40)

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

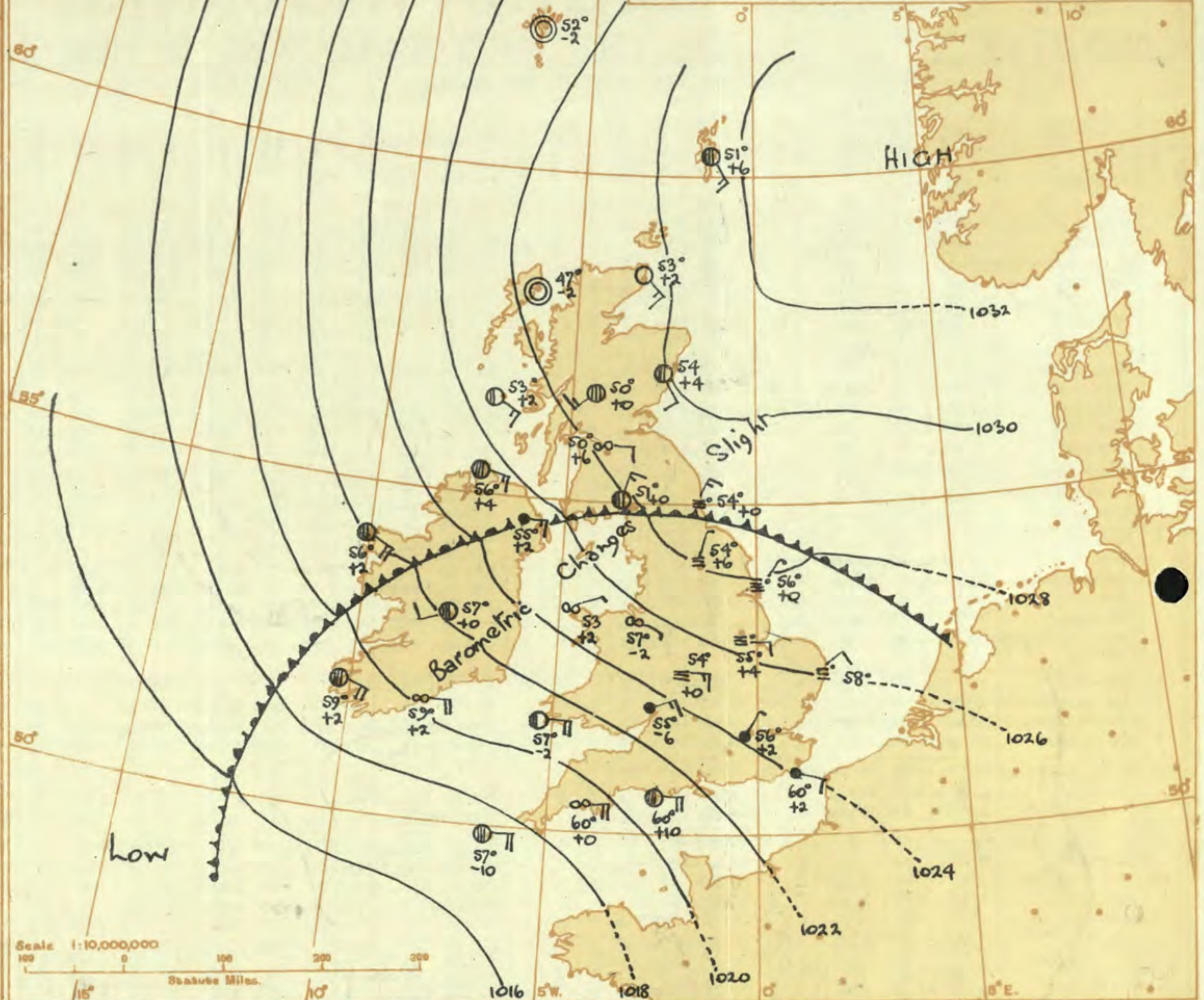
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 4th October ......18h. G.M.T.						01h. G.M.T. 5th October .....07h. G.M.T.					
III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109				5-	02764	00014	--	46309	11429	5-	05637	11427
115	57	02944	12127	52	02844	08227	54	01853	12214	54	01853	12314
203										00	05890	08100
206	5-	02867	08227	5-	02868	06228	00	00790	00020	03	01790	00013
210	5-	02767	07227	5-	02768	10328	5-	02765	12225	50	05661	10142
220	52	02853	13218	07	02790	10218				00	05790	12300
230				50	05761	08111	00	05690	08100	50	05763	08313
245	5-	05668	08218	5-	02767	04227	5-	05633	16327	5-	05648	12228
260	5-	02765	07225	53	05664	06115	5-	05635	04225	5-	02733	06227
278	1-	00862	12312	00	00790	08100	03	02690	18216	04	02790	09325
279	10	05662	10402	03	05690	06302	04	05590	04402	5-	05667	06427
285				23	05634	10515						
288	50	05654	03244	24	05653	06214	5-	05545	04315	5-	08428	07228
575	2-	05654	10214	00	05690	08210	5-	05548	00028	5-	05548	08228
301	50	05658	10413	03	05590	02102	5-	05558	08368	5-	03647	09327
321	80	01754	07344	5-	05647	06327	5-	05548	05228	51	03545	04257
299				50	05653	07313	5-	05558	07428	5-	05548	06358
292				5-	05646	05216	5-	05638	05228	02	51438	05158
310	--	01644	04514									
314	2-	05644	06314	52	05656	06368	5-	05548	06328	5-	08428	06328
333	04	01790	06402	53	01644	06315	5-	05667	06267	57	61864	06317
334	--	05546	10328	--	03647	10328						
340	5-	05648	08328	57	62635	06268	5-	05548	08368			
136	5-	01764	05414							--	48109	074×9
336	50	05653	08428	52	62552	04368						
350	52	61647	04368	5-	05648	04368	--	48209	06229	--	46109	04249
368	52	05623	06428	5-	05538	06328				97	08446	06368
379	5-	61538	04348	5-	05538	04368	5-	08438	06358	--	46109	06389
390	5-	08448	10268	5-	08448	08228	--	48009	04149	--	44109	08349
382	5-	22638	05268	52	05547	05228	5-	08438	05228	57	41447	04248
438	5-	02648	04328							87	03644	04467
430	53	05635	06367	03	05590	06125	52	62464	06368	59	22664	06266
409	53	05634	08226	5-	05637	06128	04	08490	07311	57	05634	09416.

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 5th October 1941.



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

FRONTS or boundaries between masses of air of different 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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 5th October
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Light to moderate east to southeast winds, fresh locally on the southwest coasts. Fair periods; local thundery rain with thunder in a few places mostly in the West. Misty at night and early to-morrow; close.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13A. W. Scotland 13B. N.W. Scotland	Light easterly winds; becoming cloudy with some light, local rain: a chance of local thunderstorms in the West. Local fog on East Coast; rather close.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light southeast winds; mainly fair inland. Rather dull with local fog near East Coast; rather close.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light to moderate southeast winds. Mainly cloudy, some thundery rain; fairer periods later: close.

GENERAL INFERENCE.

Pressure is high to northeast of the British Isles and low from Iceland to east of the Azores. Minor troughs of relatively low pressure are moving north-northwest over the British Isles accompanied by some thundery rain. Fairer conditions are expected to spread up from the South.

FURTHER OUTLOOK.

Rather warm and close with fair periods but generally less settled than of late.

Forecasts issued at 1030 G.M.T.

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

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Sunday 5th October

1941.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h, 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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 5th October 1941.

No. 29172

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1024·3	-2	E	1	cfft	57	97	3	5	-	-	10	10	600
	S. Farnborough	226	1023·9	-4	ENE	2	cfft	56	97	2	-	-	-	10	10	450
	Boscombe Down	417	1023·4	-6	ENE	4	of	55	97	3	5	-	-	10	10	700
	Thorney Island	10	1023·0	-2	NE	2	rr	58	92	4	5	-	-	10	10	1500
	Lympne ...	346	1024·4	-2	ENE	1	Zo	59	85	5	-	7	-	0	9	-
	Manston ...	154	1024·6	-2	ESE	2	m	59	85	4	-	-	9	0	9+	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1025·0	-2	NE'E	2	cft	55	97	3	-	3	-	0	9	-
	Gorleston ...	5	1026·0	0	E	2	Zo	59	92	6	-	7	-	0	4·6	-
	Mildenhall ...	19	1026·0	+2	-	0	Ft	54	97	1	-	-	-	10	10	4150
	Cranwell ...	240	1026·5	-2	E	2	Zo	55	97	6	5	-	-	10	10	800
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1024·8	-2	NE'E	3	of	55	97	3	5	-	-	10	10	400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1020·7	+2	NE	4	b	57	92	6	-	-	1	0	Tr	-
	Bristol ...	209	1023·5	-4	ENE	2	of	56	97	3	5	-	-	10	10	600
	Portland Bill ...	32	1020·5	-10	E	4	c	58	92	7	4	7	-	4·6	7·8	4000
	Plymouth ...	82	1020·7	-4	E	4	Zo	58	92	5	5	-	-	2·3	2·3	2500
	The Lizard ...	240	1019·9	-6	ENE	4	m	58	97	4	5	2	-	9	10	1000
	Scilly (St. Mary's)	163	1019·7	-4	ESE	3	c	55	97	6	5	-	-	9+	9+	1500
	Guernsey ...	175														
6	Pembroke ...	142	1022·7	-2	E	4	c	58	85	6	8	-	-	10	10	2500
7	Holyhead (Valley)	26	1023·8	-4	ENE	1	Zo	55	92	5	-	4	-	0	Tr	-
	Chester (Sealand)	16	1025·4	-2	E'S	1	m	57	85	4	5	-	-	10	10	1500
8	Manchester ...	215	1025·9	-2	ENE	3	Zo	57	85	6	5	-	-	10	10	1000
10	Spurn Head ...	29	1026·9	0	E	3	Zo	57	97	6	5	2	-	4·6	10	2500
	Catterick ...	175	1028·2	-6	N'E	1	m	53	92	4	5	-	-	10	10	1300
	Tynemouth ...	108	1028·9	-8	SE	3	c	54	92	6	5	-	-	9+	9+	2100
11	St. Abbs Head	280	1029·5	+2	SE	3	Zo	53	85	6	5	2	-	9	10	1500
	Leuchars ...	36	1029·6	+2	E	2	Zo	54	92	6	5	-	-	9+	9+	900
12	Renfrew (Abbotsl.)	19	1028·4	-2	E'N	2	Zo	50	92	5	-	-	-	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1026·0	0	SSE	4	Zo	58	85	6	5	3	-	7·8	9+	3000
13A	Tiree	22	1027·5	0	ESE	3	b	53	92	8	*	*	*	0	0	*
13B	Stornoway ...	80	1028·0	-2	SE	1	b	52	92	7	-	-	-	0	0	-
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1030·2	-2	SE'S	3	m	54	97	4	5	-	-	10	10	400
16	Sumburgh ...	30	1032·0	+2	ENE	1	c	53	97	8	5	-	-	9+	9+	4500
17	Blacksod Point	18	1022·1	-6	SE	3	b	54	85	7	-	4	-	0	Tr	-
18	Malin Head ...	84	1025·2	-2	E	3	b	54	85	6	-	-	-	0	0	-
	Aldergrove ...	268	1025·8	-2	NE	2	Zo	54	92	5	5	3	-	7·8	9	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1019·4	-18	E'S	4	Zo	58	86	6	5	3	-	7·8	9+	2500
	Roches Point	22	1020·8	-10	E	4	c/d	57	97	6	5	-	-	9+	9+	800

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1024·0	+2	ENE	3	r.r.	58	97	4	-	7	-	0	10	-	1	*
	Croydon ...	1024·1	+2	NE	1	rr.	56	97	4	5	-	-	10	10	500	1	*
	S. Farnborough	1023·3	-2	ENE	3	rc	57	97	4	5	-	-	10	10	450	1	*
	Boscombe Down	1022·6	-2	E	4	m	56	97	4	5	7	-	2-3	9+	600	1	*
	Thorney Island	1022·0	-4	E	3	c/r	60	85	5	5	3	-	7-8	9+	1500	1	*
	Lympne ...	1024·1	+2	ESE	2	rr.	60	85	6	5	7	-	4-6	10	6000	0	§ *
	Manston ...	1024·6	+2	E	3	m/r	60	92	4	-	7	-	0	9+	-	1	*
2	Shoeburyness ...	1024·8	+2	E'N	2	m/r	58	97	4	5	7	2	4-6	9	2500	0	*
	Felixstowe ...	1025·2	+6	NE'E	2	cF-	56	97	1	-	3	-	0	7-8	-	1	1
	Gorleston ...	1026·0	0	NE'E	2	m	58	97	4	5	-	-	4-6	9-6	400	1	2
	Mildenhall ...	1026·1	+4	ENE	2	fi-	55	97	2	-	-	-	10	10	450	0	*
	Cranwell ...	1026·7	+4	E	2	m	55	97	4	5	-	-	10	10	500	0	*
3	Birmingham ...	1024·7	0	E	3	F	54	97	1	-	-	-	10	10	4150	1	*
	Upper Heyford	1024·3	-2	ENE	3	rf	55	97	3	5	-	-	10	10	300	1	*
4	Ross-on-Wye	1023·1	-6	ENE	3	rr.	55	97	4	-	2	-	10	10	450	1	*
5	Hartland Point	1018·4	-12	ENE	4	bc	58	85	7	-	4	5	0	4-6	-	0	
	Bristol ...	1023·1	0	E	2	m/d	56	97	4	5	-	-	10	10	600	1	*
	Portland Bill ...	1020·7	+10	E	4	c	60	92	7	2	4	-	4-6	9	2500	1	4
	Plymouth ...	1019·6	0	E	4	Zo	60	92	6	5	-	-	10	10	800	0	3
	The Lizard ...	1017·9	+2	ENE	5	c	58	97	7	8	6	-	7-8	9+	1000	0	4
	Scilly (St. Mary's)	1017·4	-10	E	4	c/pr	57	97	5	6	2	-	7-8	10	1000	1	4
6	Pembroke ...	1020·7	-2	E	4	bc	57	85	6	6	8	-	2-3	4-6	2000	1	3
7	Holyhead (Valley)	1023·4	+2	ENE	1	Zo	53	97	5	5	7	8	7-8	9+	3500	0	1
	Chester (Sealand)	1024·9	-2	SE'E	1	Zo	57	92	5	5	-	-	10	10	1300	0	*
8	Manchester ...	1025·7	+2	NE'E	1	Zo	56	92	6	5	-	-	4-6	10	1500	1	*
10	Spurn Head ...	1026·9	0	NE	1	m	56	92	4	5	-	-	10	10	1500	0	2
	Catterick ...	1028·4	+6	NNE	1	oft	54	97	3	5	-	-	10	10	600	0	*
	Tynemouth ...	1028·7	0	NE	3	m	54	97	4	5	-	-	10	10	1100	1	2
11	St. Abbs Head	1029·0	-4	NNE	4	c	53	92	6	5	2	-	9	10	1500	2	3
	Leuchars ...	1029·4	+4	E	2	Zo	54	92	6	5	-	-	9+	9+	1500	0	*
12	Renfrew (Abbotsl.)	1028·7	+6	E	2	Zo	50	92	5	5	-	6	Tr	9-6	2500	0	*
	Eskdalemuir ...	1028·0	0	NNE	3	c	51	85	6	5	-	-	10	10	1500	0	*
	Point of Ayre ...	1025·6	0	ESE	3	c	58	92	7	5	2	-	7-8	10	3000	0	3
13A	Tiree	1027·0	+2	SE'E	3	bc	53	85	8	5	4	-	2-3	4-6	2500	0	3
13B	Stornoway ...	1027·3	-2	-	0	b	47	97	6	-	-	5	0	Tr	-	1	1
15	Dalwhinnie ...	1028·0	0	SW	3	c	50	95	7	8	4	-	2-3	9-6	2500	0	*
	Aberdeen ...	1030·6	+4	SSE	2	Zo	54	92	6	5	-	-	10	10	3500	0	2
	Wick ...	1029·7	+2	SE	3	b	53	92	6	5	-	-	Tr	Tr	3500	1	*
16	Sumburgh ...	1032·5	+6	SSE	3	c	51	97	9	5	-	-	4-6	9	600	1	2
17	Blacksod Point	1021·5	+2	ESE	4	c	56	92	7	-	7	-	0	10	-	0	3
18	Malin Head ...	1024·8	+4	E'S	3	c	56	85	6	8	-	-	7-8	7-8	1500	0	3
	Aldergrove ...	1025·2	+2	E	3	rr.	55	92	5	5	-	-	10	10	800	0	*
19	Birr Castle ...	1022·0	0	WSW	2	c	57	86	8	5	7	-	7-8	9	2500	0	*
20	Valentia Obsy.	1019·0	+2	E'S	4	c	59	85	7	5	-	-	7-8	7-8	2500	1	3
	Roches Point	1020·3	+2	E	4	Zo	59	92	6	5	-	-	9+	9+	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 4th Hrs. (36)
1	London (Kew)	61	57	56	0·3	0·2	0·0
	Croydon ...	60	55	54	0·4	0·3	0·0
	S. Farnborough	61	56	53	0·2	0·1	0·0
	Boscombe Down	58	55	52	-	2	0·0
	Thorney Island	66	54	48	0·5	2	*
	Lympne ...	66	54	44	1	Tr	3·6
	Manston ...	64	55	52	1	Tr	3·0
2	Shoeburyness ...	62	50	44	*	0·3	1·3
	Felixstowe ...	63	54	52	Tr	-	2·3
	Gorleston ...	60	56	56			*
	Mildenhall ...	62	49	40	0·1	Tr	0·6
	Cranwell ...	62	53	52	-	Tr	2·9
3	Birmingham ...	60	52	51	2	Tr	0·0
	Upper Heyford	58	54	54	1	-	*
4	Ross-on-Wye	57	54	54	0·1	2	0·0
5	Hartland Point	57	56	55	0·2	-	0·0
	Bristol ...	57	52	43	0·2	6	0·0
	Portland Bill ...	60	55	*		5	*
	Plymouth ...	60	57	53	-	-	0·2
	The Lizard ...	59	57	*	-	-	0·0
	Scilly (St. Mary's)	58	55	*	Tr	4	0·0
6	Pembroke ...		56	*		Tr	1·4
7	Holyhead (Valley)	68	51	46	-	0·2	*
	Chester (Sealand)	62	56	54	-	Tr	5·1
8	Manchester ...	64	55	50	-	0·1	*
10	Spurn Head ...	61	55	*	-	-	8·3
	Catterick ...	64	52	43	-	Tr	3·9
	Tynemouth ...	57	53	51	-	Tr	*
11	St. Abbs Head	59	51	*	-	-	*
	Leuchars ...	60	53	49	-	-	0·4
12	Renfrew (Abbotsl.)	65	48	40	-	Tr	2·7
	Eskdalemuir ...	61	45	39	-	-	4·9
	Point of Ayre ...	62	57	*	-	-	9·1
13A	Tiree	59	52	*	-	-	0·0
13B	Stornoway ...	58	47	*	-	-	2·2
15	Dalwhinnie ...	58	47	37	-	-	0·0
	Aberdeen ...	58	53	51	-	-	0·1
	Wick ...	60	53	50	-	-	*
16	Sumburgh ...	59	51	43	-	-	1·7
17	Blacksod Point	63	48	*	-	-	*
18	Malin Head ...	60	50	*	-	-	5·2
	Aldergrove ...	62	49	41	-	Tr	7·4
19	Birr Castle ...	64	50	44	-	-	5·8
20	Valentia Obsy.	67	55	46	-	Tr	9·2
	Roches Point	62	56	*	-	0·3	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cfofomc	cmocm	cmofom	61	57	56	0·3	0·2	0·0	*	*	4
Croydon	217	ofofocm	cmocm	cmofcir	60	55	54	0·4	0·3	0·0	*	*	4
Greenwich (Royal Observatory)...	149	cirom	cmo	cmomofc	61	55	55	0·6	0·3	0·0	84	91	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	63	57	56	0·4			85	89	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*									*
Camden Square	110	o	c	*	61	55	54	0·5	0·3	*	*	93	*
Kensington	80	o	odr	*	61	57	54	Tr	0·6		94	95	*
Hampstead Observatory	450										*		*

FOREIGN OBSERVATIONS.

Stations	Evening of 4th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 5th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	1007·4	SE	6	r.r.	55	1007·1	SSE	7	rr	54
Lisbon (18h and 07h)						1017·1	WSW	1	b	61
¶Madrid (18h and 07h)	901·9	E	4	c	59					
Cairo (Heliopolis) (18h and 06h)	1016·5	NE	2	b	75	1015·7	NE	2	b	70
Toronto (13h and 01h)										
Washington (13h and 01h)										

¶Pressure at 1,000 dynamic metres level.

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

† Sea disturbance reported from Dungeness.

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. ... 5th.

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·3	10-13h 4h	0·1	2h 5h

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
	59		-
66		Tr	
87	66	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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SECRET

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 6th October, 1941.

No. 29173

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1023·3	-10	E	3	zo	65	85	5	5	-	-	10	10	2500
	Croydon	1023·7	-6	E	2	m	64	92	4	5	-	-	4-6	10	2500
	S. Farnborough	1023·0	-10	E	3	zo	62	92	5	5	7	-	2-3	9+	3000
	Boscombe Down	1022·8	-2	E'S	4	zo	65	75	6	7	7	9	4-6	7-8	1500
	Thorney Island	1022·5	-4	SE	3	zo	68	75	6	7	9	1	4-6	7-8	4000
	Lympne	1024·0	-8	ESE	2	m/r	62	85	4	5	7	-	4-6	10	6000
	Manston	1023·7	-12	E	4	zo	63	85	5	-	7	-	0	9+	-
2	Shoeburyness	1024·6	-4	NE	4	rf	62	92	3	5	-	-	10	10	2200
	Felixstowe	1024·7	-18	ENE	4	zo	65	85	5	-	3	2	0	9	-
	Gorleston	1026·6	0	ENE	3	m	61	85	4	5	6	-	4-6	7-8	1500
	Mildenhall	1025·5	-8	E'N	2	c/r	64	92	5	5	7	-	9	10	1200
	Cranwell	1026·2	-10	E	3	m	62	85	4	5	-	-	9	9+	600
3	Birmingham	1024·2	-4	E	3	m/r	59	97	4	5	7	-	9	10	800
	Upper Heyford	1023·2	-10	ENE	3	m/pr	59	92	4	5	7	-	4-6	10	2500
4	Ross-on-Wye	1022·5	-10	E	3	zo	64	85	6	8	-	-	9+	9+	1500
5	Hartland Point	1019·9	0	E	3	c	64	85	7	1	8	-	2-3	9	2000
	Bristol	1022·3	-6	SE	3	bc	69	75	7	8	3	1	2-3	4-6	2000
	Portland Bill	1021·6	+4	E	4	c	61	92	7	2	-	-	7-8	7-8	2500
	Plymouth	1019·5	-2	SE	3	c	63	85	7	3	7	-	4-6	9	1000
	The Lizard	1019·3	+2	SE	3	bc	63	85	8	8	4	-	2-3	4-6	2500
	Scilly (St. Mary's)	1018·6	+2	SE'S	3	bc	62	85	8	2	4	4	2-3	4-6	1500
	Guernsey														
6	Pembroke	1020·7	+2	ESE	5	c	60	85	6	8	7	-	4-6	9	2500
7	Holyhead (Valley)	1022·1	-12	ENE	3	pr	61	85	6	5	7	1	7-8	9+	3000
	Chester (Sealand)	1024·2	-10	E	1	m	62	85	4	5	-	-	10	10	1600
8	Manchester	1025·5	-2	E'N	3	iro	60	85	4	-	9	-	0	10	-
10	Spurn Head	1027·2	-6	E	3	m/F	59	97	4	5	-	-	9+	9+	2500
	Catterick	1026·1	-4	E'N	2	zo	60	85	5	6	2	-	7-8	10	900
	Tynemouth	1029·0	0	SE	3	zo	55	65	5	5	-	-	10	10	1200
11	St. Abbs Head	1029·1	-6	SE	3	m	54	92	4	5	-	-	10	10	100
	Leuchars	1029·4	-6	ESE	3	zo	55	92	6	5	-	-	10	10	900
12	Renfrew (Abbots I.)	1028·0	-10	E'N	3	zo	57	85	6	5	-	-	10	10	1600
	Eskdalemuir	1027·7	-6	NE	2	zo	55	92	6	5	-	-	10	10	800
	Point of Ayre	1025·7	0	E'S	3	roro	60	92	7	5	2	-	9	9+	2000
13A	Tiree	1026·8	-6	SE	4	bc	58	75	7	-	3	6	0	4-6	-
13B	Stornoway	1028·2	0	ESE	1	b	57	85	7	-	-	5	0	Tr	-
15	Dalwhinnie	1029·1	0	SE	3	c	52	85	7	5	-	1	9	9+	1500
	Aberdeen	1030·9	-4	SE	2	zo	55	92	6	5	-	-	10	10	2500
	Wick	1029·7	-10	ESE	4	bc	57	85	6	5	-	-	4-6	4-6	2500
16	Sumburgh	1032·8	0	SSE	3	gjp	54	85	8	5	-	-	7-8	7-8	1400
	Blacksod Point	1021·5	-2	SE	2	bc	64	75	7	2	5	-	4-6	4-6	1500
	Malin Head	1024·4	-10	E'S	5	c	57	85	6	9	-	-	9	9	1500
	Aldergrove	1024·3	-14	SE'E	3	zo	60	85	6	5	7	-	7-8	9	900
19	Birr Castle	1021·0	-10	SE	2	c	64	75	8	8	7	-	7-8	9	1500
20	Valentia Obsy. †	1018·9	-4	E'S	3	c	64	75	7	8	-	-	9	9	4000
	Roches Point	1019·7	-6	E	5	c	62	85	7	5	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 5th. October. / PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.—13h. 5th (37)	Weather 13h.—18h. 5th (38)	Weather 18h. 5th to 1h. 6th (39)	Weather 1h.—7h. 6th (40)
London (Kew)	1023·5	+6	E	3	m	61	85	4	5	-	-	9	9	2500	1	•	cirocmo	cirocm	cmirocmo	cmoffF
Croydon	1023·6	+4	ENE	1	m	60	97	4	-	7	-	0	9	-	1	•	omircm	cmircm	cmoF	oFbFe
S. Farnborough	1023·1	+2	E	2	bcft	60	92	3	-	-	2	0	4-6	-	1	•	cirmo	cmorobcf	bcfoF	oFfe
Boscombe Down	1022·2	+2	ESE	3	zo	62	85	6	5	-	-	9+	9+	1000	0	•	cmbcmo	bccm	cFoF	oF
Thorney Island	1022·3	+2	ESE	3	zo	63	85	5	-	-	3	0	Tr	-	0	*	cm	cmobcmo	bmfw	bcmfw
Lympne	1023·7	+4	ENE	2	m	61	85	4	-	7	-	0	9+	-	0	*	cmiroidoro	ciro	cmbwff	bmwff
Manston	1023·9	+6	E'N	2	m	60	97	4	5	7	-	1	10	4500	1	§ •	ciromo	ciro	cmcbcfo	bmfFem
Shoeburyness	1024·0	-12	NE'E	4	m	59	92	4	5	-	-	10	10	4000	1	•	ciromf	cfiromc	bcFoF	oFe
Felixstowe	1024·3	+2	NE'N	4	iro	60	97	4	5	2	-	9+	10	2500	1	3	cFcmcmo	cmomiG	cirombff	bffbFoF
Gorleston	1025·5	-2	E'N	2	m	59	92	4	5	-	-	10	10	700	0	4	bczobcm	cm	[illegible]	bcoffFe
Mildenhall	1025·1	0	NE'E	2	iro	60	97	5	5	2	-	4-6	10	4000	1	•	bmocmdG	cmoiro	cmirocf	cfoFw
Cranwell	1025·6	0	E'N	4	iro	58	97	4	5	-	-	10	10	1000	1	•	omfcmo	cmcmsmif	oirorodo	mofmfdof
Birmingham	1023·0	-8	E	3	cf+	59	97	2	6	-	-	10	10	800	1	•	Foiro	cirof	off	ofofd
Upper Heyford	1023·4	+6	ENE	3	m	60	97	4	5	7	-	7-8	10	2000	1	•	orfcfrom	crofmcm	cmbcfof	ofdod
Ross-on-Wye	1022·2	-4	E	3	zo	60	92	5	8	-	-	7-8	7-8	2500	1	•	ropmomcz	czotcz	clmcm	ofidof
Hartland Point	1019·7	0	SE	2	bc	59	85	8	8	4	3	4-6	4-6	2000	0	3	ccirbc	cirbc	bccbcl	bccw
Bristol	1021·4	-2	E	2	zo	62	85	5	8	-	-	9	9	1600	0	•	cmo	ccmo	b,off	offe
Portland Bill	1021·0	+4	E	4	c	61	92	7	5	7	-	7-8	9	2500	1	4	c	c	c	bco
Plymouth	1019·9	+2	E'S	3	bc	59	97	8	3	3	-	2-3	4-6	2000	1	3	cmoirocbc	ctotr bc	bcmoikff	fcmof
The Lizard	1019·9	+2	SE'E	3	bc	57	97	8	4	-	-	4-6	4-6	2500	1	2	bc	bc	bczo	bcFFe
Scilly (St. Mary's)	1019·1	+6	SE'S	2	bc	58	97	8	8	4	-	4-6	7-8	1200	1	3	cbc	bc	cbccw	b,cwbfc
Guernsey																				
Pembroke	1020·5	-6	SE	4	c	60	85	7	6	4	-	4-6	7-8	2500	1	3	cmo	cmo	cbc	bc
Holyhead (Valley)	1021·7	+2	E	1	c/TLR	62	85	6	9	-	-	10	10	1200	1	2	bcmjrropG	cmotlr	ctlrcpro	cmoifm
Chester (Sealand)	1023·5	-2	ENE	2	m/r	61	85	4	5	-	-	10	10	2000	1	•	roroirom	cmorocm	cmof	ofmdf
Manchester	1025·2	+12	E'N	3	iro	60	92	4	5	-	-	10	10	4000	1	•	cmoiro	ciromo	cirfmo	cmwcmo
Spurn Head	1026·3	-2	E	3	zo	57	97	6	5	-	-	10	10	2500	0	3	F		oido	omF
Catterick	1027·3	-2	NNE	1	oft	56	97	2	5	-	-	10	10	300	0	*	cmo	oromofif	Forrf	rorofof
Tynemouth	1027·7	-4	SE	3	ofr	55	97	3	5	-	-	10	10	1000	1	2	offm	omoff	oiromo	oiromo
St. Abbs Head	1028·4	+2	SE	4	f+	54	97	3	-	-	-	10	10	< 150	0	3	cmoom	mof	Fe	moFe
Leuchars	1028·5	-2	E	4	zo	55	97	5	-	2	-	10	10	300	1	•	cmo	cdodomcm	cmddcf	cfdcmro
Renfrew (Abbots I.)	1027·1	+2	ENE	3	zo	57	85	5	6	7	-	9+	10	600	0	•	bcmocmo	cmo	rororrooro	rRroro
Eskdalemuir	1027·0	+2	NNE	3	c	55	92	6	5	-	-	10	10	800	0	•	cmo	cmo	omrr	omRrr
Point of Ayre	1024·6	0	ESE	2	roro	59	97	7	5	-	6	9+	10	2500	1	3	croro	roroc	rorrc	rrcbcc
Tiree	1025·7	-8	ESE	2	c	58	85	7	5	-	-	9	9	3500	0	3	bc	bcc	cid	cdrc
Stornoway	1027·1	-2	-	0	c	53	85	8	5	7	5	4-6	9+	3200	1	1	b	bbcc	cbc	bccpr
Dalwhinnie	1029·1	-4	SE	3	zo	52	92	6	5	-	6	7-8	9+	1500	0	•	c	c		ciro
Aberdeen	1030·1	-4	SE	3	zo	55	92	6	5	-	-	10	10	1500	0	2	czo	czoozo	czoidozo	oiromo
Wick	1029·5	+2	SE'S	4	zo	54	92	6	5	-	-	10	10	400	0	*	cbcmo	bcmomo	momomo	ocmo
Sumburgh	1031·8	+4	SE	3	b	52	97	8	5	3	-	Tr	1	900	1	3	bc	bccbcb	bcbcc	c
Blacksod Point	1020·6	-4	ESE	3	c	59	92	7	-	7	-	0	9+	-	0	3	cbc	c	bcc	c
Malin Head	1023·4	-4	E'S	5	c	58	85	6	8	-	-	9	9	1500	0	3	c	c	cproc	c
Aldergrove	1024·1	+2	E	3	c/d	57	92	5	5	-	-	10	10	1000	0	•	dodopro	idocmo	cirmpro	procmo
Birr Castle	1020·2	-6	ESE	1	c	60	85	8	5	7	-	7-8	9	2500	0	•	cidc	c	*	bcc
Valentia Obsy. †	1017·9	-2	E'N	4	c	62	75	8	8	-	-	9	9	2500	1	4	bbcc	cbcc	cbcw	cbcw
Roches Point	1018·4	-6	E	4	pr	59	92	7	3	-	-	7-8	7-8	1500	1	4	c	czopr	bwbcw	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄ gale.
⊕ Solar halo. ⊕ lunar halo. ⌂ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

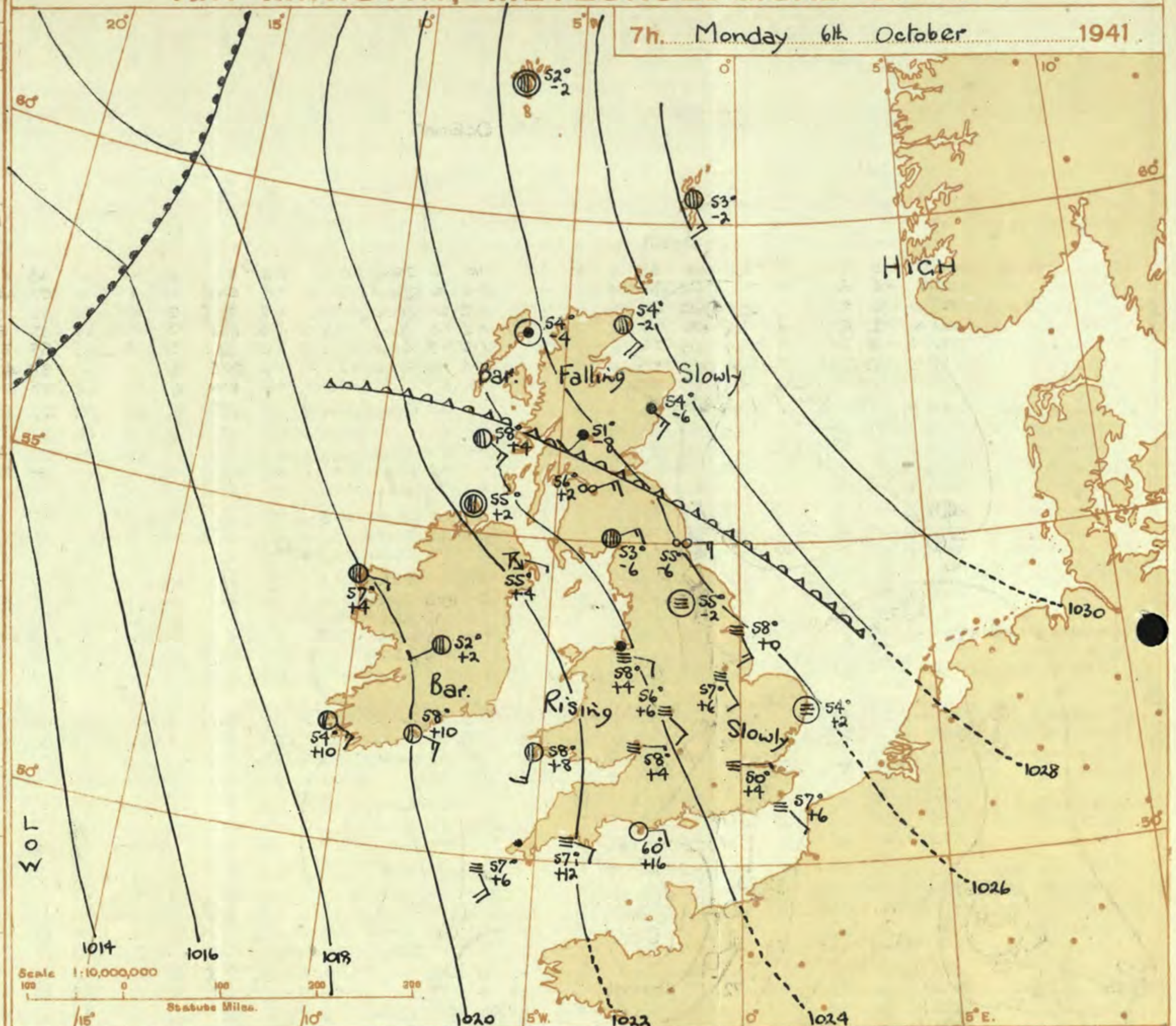
COLUMN 29.—STATE OF GROUND.

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.

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.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 6th October 1941



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

FRONTS or boundaries between masses of air of different 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 Occl…
= 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.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 5th October			18h. G.M.T.			01h. G.M.T. 6th October			07h. G.M.T.		
III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	5-	02655	12425	5-	05656	13426	5-	51528	14528	5-	02845	11526
115	54	01853	32114	54	01844	24115	54	02754	08128	52	02744	08127
203	01	05890	08103	57	05843	08414	00	05890	08110	5-	52848	08228
206	00	00800	00011	57	02864	14326	03	02790	02128	52	62764	06268
210	50	00753	12413	5-	05644	10314	01	05690	.0318	52	62645	10468
220	00	05790	14300	00	05690	15300						
230	53	05765	08216	53	05764	08115	57	05763	41428	52	62657	06268
245	5-	21648	09358	5-	05638	10428	5-	21548	09358			
260	5-	05604	04228	5-	08428	04128	5-	52428	06258	5-	22535	04268
278	53	02861	09415	57	02667	09468	62	63635	07368	5-	02848	12368
279	57	05654	07417	52	62544	05368	02	64490	04468	54	05664	06415
285										--	48109	12249
288	5-	05648	07248	--	48209	03349	5-	62428	06248	5-	45338	04168
575	5-	05648	08228	5-	51648	08158	53	05546	08157	5-	02758	08268
301	57	22563	09467	02	62438	10368	52	08445	08268	52	05535	11228
321	53	22554	07467	52	61444	06368	52	08437	07268	02	54438	10158
299	--	48109	07249							5-	47348	08148
292	57	05644	05427	57	05565	03268				5-	57218	08128
310										--	46109	04349
614	5-	22457	06368	52	63325	06368	5-	47228	08168	5-	57120	10158
333	54	05763	06465	9-	97638	12398	51	61867	06298	5-	05656	10266
334										--	04437	12228
340	52	22535	09468	57	22564	08468	5-	08438	10328	5-	57328	10258
136	03	05690	06346				5-	45347	11267	--	46109	16149
336										--	57409	12349
350	51	05555	04348	57	22355	06368	5-	46208	06248	--	46109	08249
368				6-	97626	16296	5-	05547	06297	5-	43218	10148
379	23	25554	06387	5-	47328	06388	--	48109	06349	--	46109	08249
390	5-	61438	08348	57	22555	06268	--	48109	00049	--	48009	08149
382	57	05656	04228	53	05563	06325	5-	47328	08148	--	46109	12149
438	02	02657	04327							00	04690	00040
430							53	08472	06344			
409	50	02746	13467				5-	05627	13317	5-	05617	14317

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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 6th October 1941

DISTRICTS.	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Light east or southeast wind; mainly fair but risk of local thundery showers; widespread fog night and morning; rather warm and close.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light or moderate southeast wind; mainly cloudy, local fog night and morning. Close.
13A. W. Scotland 13B. N.W. Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate southeast wind; rain at first, some breaks in west later, but cloudy in east with local fog: close.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1-7.

GENERAL INFERENCE.

Pressure is high to northeast of the British Isles, and low on the Atlantic. Weather will be mainly fair but there is a risk of local thundery showers. Fog will be widespread in the night and morning.

FURTHER OUTLOOK.

General situation similar.

Forecasts issued at 10·30h

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

H.M.S.O. Press, Meteorological Office Dunstable. 9.269/4120.Wt.8176 D.8034 6p.348 ... 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

Monday 6th October

1941.

Clarke's Projection Scale 1: 4 × 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— ○ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ○ Rain falling. ✱ Snow. ✱ Sleet. △ Hail. Fog. ≡ Mist. ≡ Thunder. (T) Thunderstorm. T 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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 6th October 1941.

No. 29,173

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1024·0	+2	—	0	F+	55	97	0	—	—	—	10	10	<150
	S. Farnborough	226	1023·8	+2	E'S	2	F+	57	97	0	—	—	—	10	10	<150
	Boscombe Down	417	1023·2	+2	ESE	3	F	57	97	1	—	—	—	10	10	<150
	Thorney Island	10	1023·2	0	ENE	2	bf+	57	97	3	—	—	—	0	0	—
	Lympne ...	346	1024·3	+4	—	0	bf	57	97	3	—	—	1	0	Tr	—
	Manston ...	154	1024·3	+2	SE	2	m	59	97	4	—	3	—	0	2-3	—
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1024·2	-2	E	2	bf	59	97	2	—	—	—	0	0	—
	Gorleston ...	5	1025·9	-2	SE'E	2	z_0	60	92	5	5	—	—	9	9	1500
	Mildenhall ...	19	1024·8	-2	E	2	f	59	97	3	5	—	—	9+	9+	400
	Cranwell ...	240	1025·0	-2	E	1	m	57	97	4	5	—	—	10	10	400
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1023·7	-2	ENE	1	of	57	97	3	5	—	—	10	10	200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1020·8	+4	ESE	3	b	55	92	8	1	4	—	1	2-3	2500
	Bristol ...	209	1022·9	+2	ESE	3	of+	59	97	2	5	—	—	10	10	100
	Portland Bill ...	32	1022·4	+10	E	3	c	60	92	7	1	—	—	7-8	7-8	4000
	Plymouth ...	82	1021·1	+2	E'S	2	F-	57	97	1	5	—	—	10	10	<150
	The Lizard ...	240	1021·0	0	SE	1	bc	56	97	6	4	—	—	2-3	2-3	2500
	Scilly (St. Mary's)	163	1020·2	+2	SE'S	3	b	55	97	6	5	4	—	Tr	1	1500
	Guernsey ...	175														
6	Pembroke ...	142	1021·8	0	ESE	3	bc	56	92	8	2	7	—	2-3	2-3	4000
7	Holyhead (Valley)	26	1022·2	+6	ENE	3	pr	54	92	8	9	—	—	7-8	7-8	500
	Chester (Sealand)	16	1023·8	0	NE	1	of	58	92	3	5	—	—	10	10	1200
8	Manchester ...	235	1024·2	-2	E'N	3	z_0	57	92	6	5	3	—	2-3	9	1100
10	Spurn Head ...	29	1025·4	-6	E	4	id_0	58	97	6	5	—	—	10	10	2500
	Catterick ...	175	1026·5	-10	ENE	1	rf	55	97	3	—	—	—	10	10	<150
	Tynemouth ...	108	1027·5	-4	NE'E	4	o/r	55	97	6	5	—	—	10	10	1500
11	St. Abbs Head	280	1027·5	-12	SE	4	F	54	97	0	—	—	—	10	10	<150
	Leuchars ...	36	1028·1	-8	E	2	df	55	97	3	5	—	—	10	10	400
12	Renfrew (Abbots I.)	19	1026·6	-6	ENE	3	r_0r_0	56	92	5	6	2	—	7-8	10	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1024·1	-4	SE'E	3	c	57	97	8	8	7	—	9	10	2500
13A	Tiree ...	22	1015·1	-8	SE'E	3	c/d	57	97	7	5	—	—	9+	9+	2100
13B	Stornoway ...	80	1026·7	-4	—	0	bc	52	92	7	5	4	—	1	2-3	3000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1029·1	-6	SE'S	4	z_0	54	92	5	5	—	—	10	10	600
16	Sumburgh ...	30	1031·7	-6	SE	3	c	53	92	7	5	—	—	10	10	800
17	Blacksod Point	18	1019·7	-8	ESE	3	c	58	92	7	—	7	—	0	9	—
18	Malin Head ...	84	1022·3	-10	E	5	pr	58	92	6	6	—	—	9	9	800
	Aldergrove ...	268	1022·8	-10	E'S	4	c/pr	56	85	7	5	7	—	4-6	9+	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1018·0	-8	E'N	3	bc	56	85	8	7	—	—	4-6	4-6	2500
	Roches Point	22	1019·3	-2	ESE	2	bc	57	97	8	5	—	—	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 6th October — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0-10 (26)	Cloud Amount Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 5th Hrs. (36)
London (Kew)	1024·8	+10	SE'E	1	F+	58	97	1	—	—	—	10	10	<150	1	*	65	58	54	0·1	Tr	0·0
Croydon	1024·5	+4	E	1	bF	50	97	1	—	—	—	0	0	—	1	*	64	49	47	0·2	Tr	0·0
S. Farnborough	1023·8	+2	E	1	F-	55	97	1	—	—	—	10	10	<150	1	*	63	54	54	1	0·1	0·0
Boscombe Down	1023·8	+10	ESE	3	F	57	97	1	—	—	—	10	10	<150	0	*	68	56	51	Tr	Tr	4·3
Thorney Island	1023·9	+6	ENE	2	bF	55	97	1	—	—	—	0	0	—	0	*	71	54	49	0·1	Tr	*
Lympne	1024·9	+6	SE	1	if	57	97	4	—	—	—	0	0	—	0	§	65	53	42	0·2	Tr	0·5
Manston	1025·0	+6	SSE	1	m/f	57	97	4	—	—	—	0	0	—	1	*	65	55	52	0·1	0·1	0·5
Shoeburyness	1024·9	*	—	0	F	53	97	0	—	—	—	10	10	<150	1	*	63	53	49	0·2	0·3	0·0
Felixstowe	1024·5	+4	—	0	F+	53	97	0	—	—	—	10	10	<150	1	1	65	53	48	Tr	0·1	0·7
Gorleston	1025·8	+2	—	0	F+	54	97	0	—	—	—	10	10	<150	1	1	62	53	50	—	2	*
Mildenhall	1025·2	+6	ESE	1	F+	58	97	1	—	—	—	10	10	<150	0	*	65	58	56	0·1	0·2	0·0
Cranwell	1024·9	+6	SSE	2	f+	57	97	2	—	—	—	10	10	<150	1	*	63	56	56	Tr	1	0·0
Birmingham	1024·2	+6	SE	2	F	56	97	1	—	—	—	10	10	<150	1	*	61	56	55	2	0·2	0·0
Upper Heyford	1024·1	+8	—	0	uF	58	97	1	—	—	—	10	10	<150	1	*	62	55	53	1	0·1	*
Ross-on-Wye	1023·1	+4	E	1	of	58	97	3	5	—	—	10	10	450	1	*	67	57	57	1	0·1	1·2
Hartland Point	1021·8	+12	SW	2	f	55	97	7	5	1	—	4-6	7-8	1200	1	3	64	54	50	Tr	—	1·7
Bristol	1023·5	+10	SE	3	f-	57	97	3	—	—	—	10	10	<150	0	*	69	57	51	—	—	3·4
Portland Bill	1023·0	+16	E	2	b	60	92	8	—	—	—	0	0	—	1	3	62	57	*	—	—	*
Plymouth	1022·1	+12	E'S	2	f+	57	97	2	—	—	—	10	10	<150	1	2	63	57	54	2	—	1·3
The Lizard	1022·2	+12	SSE	2	oF	56	97	1	5	—	—	10	10	200	1	2	63	54	*	—	—	5·4
Scilly (St. Mary's)	1020·6	+6	SSE	4	o/F	57	97	7	5	—	—	10	10	500	1	3	62	55	*	—	0·1	9·0
Guernsey																						
Pembroke	1022·0	+8	S'W	3	bc	58	92	7	7	3	—	2-3	4-6	3000	1	3	63	55	*	—	0·2	0·9
Holyhead (Valley)	1022·2	+8	ENE	2	z_0	54	97	6	5	3	—	7-8	9	2000	1	2	68	52	49	8	11	*
Chester (Sealand)	1023·6	+4	E'S	2	df	58	92	3	5	—	—	10	10	800	1	*	65	58	54	1	Tr	0·0
Manchester	1024·4	+4	—	0	m	56	97	4	5	—	—	10	10	1100	1	*	63	55	49	Tr	0·1	*
Spurn Head	1025·2	0	SSE	3	ff	58	97	2	—	—	—	10	10	<150	1		59	56	*	—	0·4	0·0
Catterick	1025·4	-2	—	0	of	55	97	3	5	—	—	10	10	300	1	*	61	54	53	Tr	2	0·0
Tynemouth	1026·2	-2	E	3	z_0	55	97	5	5	—	—	10	10	1200	1	3	56	54	53	—	1	*
St. Abbs Head	1025·3	-8	SE	4	F	54	97	0	—	—	—	10	10	<150	1	3	54	53	*	—	1	*
Leuchars	1026·5	+2	E	3	r_0r_0	55	97	5	5	—	—	10	10	800	1	*	57	54	53	Tr	2	0·1
Renfrew (Abbots I.)	1025·1	+2	E'N	3	z_0	56	92	5	6	2	—	9	10	900	1	*	59	55	54	—	7	1·0
Eskdalemuir	1024·5	-6	ENE	3	o	53	92	6	5	—	—	10	10	220	1		58	58	53	—	7	0·0
Point of Ayre	1022·8	0	SSE	4	z_0	58	97	6	5	4	—	2-3	4-6	3000	1	4	64	55	*	0·5	9	0·7
Tiree	1024·0	+4	SE'E	3	c	58	85	7	5	—	—	9+	9+	1800	0	3	61	56	*	—	0·3	6·6
Stornoway	1025·6	-4	—	0	pr	54	92	7	5	2	—	9	10	1500	1	1	57	48	*	—	0·1	8·2
Dalwhinnie	1026·8	-8	SW	2	ir	51	85	6	5	2	—	7-8	10	1500	1	*	54	51	49	—	2	1·8
Aberdeen	1027·5	-12	SE	3	ir_0	54	97	6	5	—	—	10	10	800	1	3	56	53	51	—	0·1	0·0
Wick	1027·5	-2	SE	4	c	54	85	6	5	1	7	2-3	10	2500	0	*	57	53	53	—	—	*
Sumburgh	1030·4	-2	SSE	3	c	53	85	8	5	—	—	10	10	1500	1	3	55	51	48	—	—	1·7
Blacksod Point	1019·7	+4	ESE	1	c	57	92	7	4	—	—	9+	9+	1500	1	3	65	56	*	—	1	*
Malin Head	1022·0	+2	—	0	c	55	85	8	8	—	—	9	9	4000	0	2	59	53	*	—	0·2	0·3
Aldergrove	1022·8	+4	E'S	1	tlr	55	97	5	9	—	—	10	10	1000	1	*	60	53	43	0·1	0·6	0·1
Birr Castle	1020·5	+2	SW	1	c	52	97	8	5	—	—	7-8	7-8	2500	0	*	64	49	43	Tr	1	0·3
Valentia Obsy.	1018·9	+10	SEE	3	bc	54	92	9	8	—	—	4-6	4-6	2500	1	2	65	53	42	—	Tr	5·1
Roches Point	1020·1	+10	ESE	3	bc	58	92	8	5	—	—	2-3	2-3	2500	1	4	63	56	*	0·4	1	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew ...	18	cir_0mcm_0	cir_0cm	$cmir_0cmoff$	65	58	54	0·1	Tr	0·0	•	•	2
Croydon ...	217	$omir_0cm$	$cmir_0cm$	cm_0f_0fe	64	49	47	0·2	Tr	0·0	•	•	1
Greenwich (Royal Observatory) ...	149	cm_0	cr_0rbcm_0	cmwfefe	64	55	55	0·3	Tr	0·1	91	*	1
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	66	58	57	—			91	95	•
Regents Pk. (Botanic Gardens)‡ ...	168	• •	•	•	65	58	57	—	—		79	94	•
Camden Square ...	110	bc	o	•	65	58	54	0·3	—	•	•	95	•
Kensington ...	80	bco	oz	•	65	58	54	—	Tr		99	98	•
Hampstead Observatory ...	450	bcp	bc	of	63	56	51	0·2	—		•	99	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. ...6th

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·2	7-19h 5th	0·1	0-2h 6th

FOREIGN OBSERVATIONS.

Stations	Evening of Sunday 5th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of Monday 6th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h) ...	1017·5	WNW	2	c	48	1021·8	—	0	bc	37	*	*	*	*
Lisbon (18h and 07h) ...	1018·0	WSW	3	bc	68	1018·1	S	2	c	63	77	61	—	—
¶Madrid (18h and 07h) ...						906·4	N	1	z_0	56		54		—
Cairo (Heliopolis) (18h and 06h) ...	1015·1	N	2	b	76						87		—	
Toronto (13h and 01h) ...														
Washington (13h and 01h) ...						1014·6	—	0	o	79				

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION SECRET

Tuesday 7th October 1941.

No. 29,174.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1024·8	+4	SW	1	z	68	75	6	7	-	-	4-6	4-6	2500
	Croydon	1024·7	-6	SE	2	bc	73	65	7	1	-	-	4-6	4-6	2500
	S. Farnborough	1024·5	-10	SSE	3	z	69	85	7	1	-	-	2-3	2-3	2500
	Boscombe Down	1024·2	-8	SE'S	3	z	68	75	7	2	-	-	4-6	4-6	2000
	Thorney Island	1024·8	+2	ESE	2	b	69	75	7	1	-	-	Tr	Tr	1500
	Lympne	1025·4	-2	S	1	b	70	75	8	1	-	-	Tr	Tr	4000
	Manston	1025·4	+2	SE	1	z	78	65	6	1	-	-	1	1	3000
2	Shoeburyness	1025·5	-2	E'N	1	z	62	85	5	-	-	-	0	0	-
	Felixstowe	1024·9	-4	ESE	2	m/f	67	85	4	-	-	-	0	0	-
	Gorleston	1026·3	+2	SE'S	1	m	64	85	4	-	-	-	0	0	-
	Mildenhall	1025·2	-6	S	1	b	72	75	7	1	-	-	1	1	4000
	Cranwell	1025·1	-2	SSE	3	of-	60	92	5	5	-	-	10	10	300
3	Birmingham	1024·6	0	SSE	2	m	60	92	4	5	-	-	10	10	800
	Upper Heyford	1024·4	-6	ESE	2	z	66	85	5	5	-	-	7-8	7-8	1600
4	Ross-on-Wye	1023·6	-4	S'W	3	bc	65	85	6	1	-	-	4-6	4-6	2500
5	Hartland Point	1022·5	-4	-	0	bc	64	85	8	1	3	-	4-6	4-6	1200
	Bristol	1024·1	-2	SE	2	bc	67	75	7	2	-	-	4-6	4-6	2000
	Portland Bill	1024·0	+2	SSE	2	bc	64	92	8	2	-	-	4-6	4-6	4000
	Plymouth	1022·3	-6	S	2	bcjf	63	85	7	5	-	-	2-3	2-3	3000
	The Lizard	1022·4	-6	E	3	ofjf	56	97	2	5	-	-	10	10	800
	Scilly (St. Mary's)	1021·4	-4	SE	4	e	61	92	7	5	3	-	7-8	8	1200
	Guernsey														
6	Pembroke	1023·2	+4	S	3	bc	62	85	7	2	6	-	4-6	4-6	3000
7	Holyhead (Valley)	1022·7	+2	SSW	2	z	63	85	6	8	-	-	2-3	2-3	3200
	Chester (Sealand)	1023·6	-2	SE	2	z	64	85	5	5	-	-	4-6	4-6	1000
8	Manchester	1024·7	0	S'E	1	z	61	85	5	5	-	-	9+	9+	1000
10	Spurn Head	1025·4	+2	SE'S	2	cf	60	97	3	5	-	-	9+	9+	800
	Catterick	1025·3	-2	SSE	2	cf	59	92	3	5	2	-	7-8	10	800
	Tynemouth	1025·6	-6	S	2	of-	56	97	3	5	-	-	10	10	800
11	St. Abbs Head	1024·6	-4	SE	3	F	55	97	0	-	-	-	10	10	<150
	Leuchars	1024·7	-10	E	3	f	56	97	2	-	-	-	10	10	<150
12	Renfrew (Abbots I.)	1023·7	-10	NE	2	z	59	85	5	9	7	-	9	10	1500
	Eskdalemuir	1023·8	-4	SE	2	z	58	85	6	5	-	-	10	10	450
	Point of Ayre	1023·3	-2	S'W	3	z	60	92	6	6	3	-	7-8	9+	1000
13A	Tiree	1023·6	-6	SE'E	3	c	59	85	7	5	3	-	2-3	7-8	2500
13B	Stornoway	1023·8	-10	-	0	c/p	55	92	6	5	2	-	7-8	10	1500
15	Dalwhinnie	1023·7	-4	SW	1	z	53	92	6	5	-	-	10	10	1500
	Aberdeen	1025·8	-18	SE	2	df	55	97	2	-	-	-	10	10	<150
	Wick	1025·6	-14	SE	4	z	55	92	6	5	-	-	10	10	600
16	Sumburgh	1028·6	-14	SE'S	3	c/d	53	92	7	5	7	-	9+	9+	1500
	Blacksod Point	1020·2	-4	SE	3	bc	61	85	8	2	-	-	2-3	2-3	2500
	Malin Head	1021·9	-6	E	2	c	58	85	8	9	-	2	4-6	7-8	4000
	Aldergrove	1022·4	-12	SE'S	2	bc/pr	65	65	6	2	9	3	2-3	4-6	2500
19	Birr Castle	1020·9	-4	S	1	bc	66	75	8	4	-	-	4-6	4-6	1500
20	Valentia Obsy. †	1019·1	-6	SE'S	4	c	66	65	9	7	-	2	7-8	7-8	4000
	Roches Point	1020·9	-6	SE'E	3	bc	62	85	8	2	-	5	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 6th October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 6th (37)	Weather 13h.–18h. 6th (38)	Weather 18h. 6th – 1h. 7th (39)	Weather 1h.–7h. 7th (40)
London (Kew)	1024·6	-2	S	1	z	63	85	6	-	-	-	0	0	-	1	•	oFfbbz	bcbzbmz	wbmwfe	bFeoFF
Croydon	1024·6	+2	SSE	1	b	62	92	6	-	-	-	0	0	-	1	•	oFcmbc	bcbmz	bmwbfbm	bmwjfbff
S. Farnborough	1024·6	+4	SSE	1	z	63	85	6	-	-	1	0	Tr	-	0	•	ofebmz	bmzbcbmz	bmzwF	bFe
Boscombe Down	1024·4	+6	E	2	b	61	85	7	-	-	-	0	0	-	0	•	oFfcm	bczb	bFbmzbF	bf
Thorney Island	1024·4	-2	E'S	2	b	62	92	6	-	-	1	0	Tr	-	0	•	bfwbcmzb	bbmz	bfgm	bmzw
Lympne	1025·0	+2	-	0	z	60	92	6	-	-	-	0	0	-	0	§	bifmzb	bbmz	bmzfgw	bmzwffg
Manston	1025·1	+4	ESE	1	fg	62	85	6	-	-	-	0	0	-	0	•	bmbmz	bz	b	bmFe
Shoeburyness	1025·0	0	E'N	1	z	60	92	5	-	-	-	0	0	-	0	•	oFebmz	bmz	bmzF	bFe
Felixstowe	1024·3	0	SE	2	z	60	97	5	-	-	-	0	0	-	1	1	oFFbm	bmbmz	bmmwF	bFoFe
Gorleston	1025·3	-2	SE'S	1	m	62	92	4	-	-	-	0	0	-	0	2	Ffebm	bmz	cmffeFfe	oFfe
Mildenhall	1024·8	-2	SSE	1	z	65	97	6	-	-	-	0	0	-	0	•	oFomb	bbcbbmz	bmzbFw	bFe
Cranwell	1024·7	-2	E'S	1	m	58	92	4	-	-	-	0	0	-	1	•	ofecm	cfmz,cm	bmzoFF	oFFe
Birmingham	1024·4	0	SE	1	z	62	85	5	5	-	-	2-3	2-3	1500	1	•	fgom	ombz	bz	bf
Upper Heyford	1024·1	+4	E	2	fg	63	92	6	4	-	-	2-3	2-3	3000	1	•	ofgofcmz	cbcbmz	bfgifbF	bFoFbFF
Ross-on-Wye	1023·2	-4	E	1	z	63	85	6	5	-	1	1	1	4000	1	•	ofomcz	bcb	bzcmbf	bfwfe
Hartland Point	1021·9	0	E	2	c	62	85	7	5	-	4	4-6	7-8	3200	0	2	cbcc	bccbc	cbc	bcc
Bristol	1023·7	+2	-	0	b	62	75	7	5	-	-	Tr	Tr	7200	0		offecmzbc	bcb	bmzwfg	boF
Portland Bill	1023·6	-6	E	2	bc	61	92	8	2	-	-	4-6	4-6	4000	1	3	bcbc	bcbc	b	bcc
Plymouth	1022·0	+2	E'S	3	bc	60	85	7	5	-	2	1	2-3	4000	0	2	fozjfbc	bmzb	bbcbmzb	b,cw
The Lizard	1022·3	0	ENE	4	if	56	97	5	4	-	-	4-6	4-6	2500	1	3	cmFfe	FFcbcmz	FFcbcw	bccw
Scilly (St. Mary's)	1020·3	-6	ESE	4	c/f	56	97	5	5	-	-	9+	9+	800	1	3	c	coFF	bccw	cw
Guernsey																				
Pembroke	1022·5	-2	E'S	3	bc	59	92	7	7	6	-	4-6	4-6	3500	0	3	cbcm	bc	cbc	bcc
Holyhead (Valley)	1022·2	+2	-	0	b	57	85	8	-	-	2	0	Tr	-	1	1	cbcrzmz	bcmzb	bbcm	cmc
Chester (Sealand)	1022·9	-2	SE	3	z	62	85	5	5	-	-	4-6	4-6	1500	1	•	ozdfbcmc	bcbbcm	bFFw	iwFFdf
Manchester	1024·0	0	SE	2	z	60	85	5	5	-	-	Tr	Tr	4000	1	•	cmz	bzmz	ofbmzif	bcFem
Spurn Head	1025·2	+2	SE	2	of	58	97	3	5	-	-	10	10	800	2	*	ofcf	of	F	F
Catterick	1024·4	0	SE'S	2	cf+	60	92	3	6	2	-	7-8	10	400	1	•	ofid	cfmcf	cfaff	Fid
Tynemouth	1024·8	0	S	3	of	56	97	3	5	-	-	10	10	1000	1	1	off	off	off	offm
St. Abbs Head	1023·0	-6	SE	3	F	55	97	0	-	-	-	10	10	<150	1	3	Ffe	Ffe	fbcf	Fecm
Leuchars	1023·3	-6	E	1	F	55	97	1	-	-	-	10	10	<150	1	•	rorridoF	iroofF	oFf	oFFf
Renfrew (Abbots I.)	1023·1	-2	E'N	2	cf+	58	92	3	3	9	-	7-8	9+	3000	1	•	mzrmcmz	cmzmpgf	cfbcfo	oFFfF
Eskdalemuir	1023·3	0	-	0	z	55	92	5	5	-	-	7-8	7-8	800	1	•	oirz	cirf	cmzom	om
Point of Ayre	1022·7	-2	SW'S	1	z	57	97	6	1	-	-	Tr	Tr	2000	1	2	cz	cbcbz	bbccb	bff
Tiree	1022·4	-4	SE	1	b	55	97	7	-	3	-	0	1	-	0	2	cbcc	bcb	b	bbcc
Stornoway	1022·7	-4	-	0	c	55	97	8	5	7	5	4-6	9	2000	1	1	crr	c	cf	c
Dalwhinnie	1023·2	-6	SW	1	z	54	92	6	5	-	2	7-8	9+	1500	1	•	co	rTLR		irfg
Aberdeen	1024·0	-10	SSE	2	F+	55	97	1	-	-	-	10	10	<150	1	3	omcddff	FFepfr	FFcr	FFcbm
Wick	1023·8	-8	SSE	2	f+	54	97	2	-	-	-	10	10	<150	1	*	cmzr	cmzoff	FLlrffF	bcebcbmj
Sumburgh	1026·3	-10	SE	3	ir	53	97	6	5	-	-	10	10	500	1	3	cddidd	crrir	odfcblrc	RcRrFd
Blacksod Point	1019·7	0	-	0	c	56	85	8	2	-	4	2-3	7-8	4000	0	0	bc	bc	bc	prc
Malin Head	1021·2	-2	S	1	bc	57	85	7	9	3	-	4-6	4-6	2500	0	2	c	c	cbcbc	crrc
Aldergrove	1022·4	+4	SE	2	z	56	92	6	4	4	-	Tr	Tr	3000	1	•	tlRmzpr	cjpmzbm	bmzfgF	Fcmzcrr
Birr Castle	1020·9	+4	SSW	1	bc	59	85	8	-	4	3	0	2-3	-	0	•	cbc	bc	*	cpr
Valentia Obsy. †	1017·9	-8	E	4	c	61	75	8	5	-	2	1	7-8	4000	1	4	bbcc	bccbc	bcc	cPRc
Roches Point	1020·4	-2	SE'E	4	c	59	92	8	5	4	-	7-8	9	1500	1	4	bc	c	cir	c

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_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕ Solar halo. ⦶ lunar halo. Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

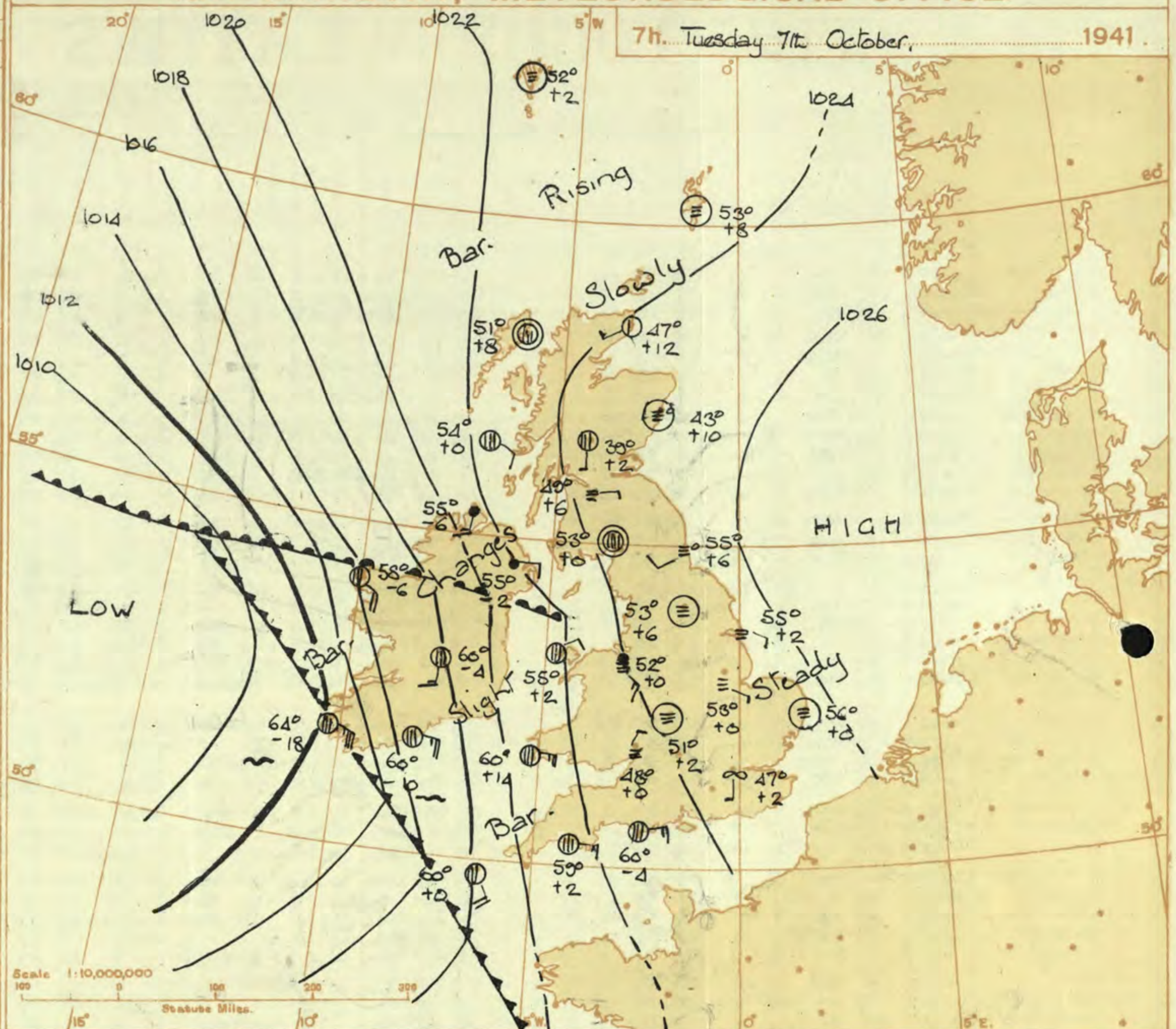
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

	Abridged observations of additional stations in the AVIATION WEATHER CODE											
	13h. G.M.T. 6th October			18h. G.M.T.			01h. G.M.T. 7th October			07h. G.M.T.		
III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	62	22637	12568	5-	62648	24468	5-	05646	18346	5-	05566	00026
115	54	02744	24165	52	81738	20488	73	02744	20127	57	02844	20126
203	6-	62738	12158	5-	25838	16488	5-	02865	16125	54	05864	16225
206	00	02890	08126	57	02863	06228	--	46209	32199	--	48209	00049
210	57	02762	08367	57	22864	12268	50	43351	18141	--	48109	16249
220	52	03845	21327							50	01744	12214
230	57	02875	11166	5-	05538	18228	00	05690	00010	07	05690	00016
245	--	44209	10269	57	81645	13387	--	45190	04160	--	46109	28149
260	53	08423	04127	54	05566	28127	--	46009	00049	--	44109	00049
278	9-	25537	13387	57	02845	29428	5-	42418	15248	5-	61408	12248
279	83	05656	06227	5-	05548	00028	00	43190	08140	53	43334	06246
285				5-	03538	00028				--	46109	22249
288	5-	05548	14128	5-	05648	20168	--	48009	17149	--	48109	24129
575	83	01854	14114	63	02735	28327	04	05690	08201	5-	62638	10268
301	5-	05545	12325	5-	05525	28228	00	47290	12140	07	08490	11244
321	5-	05538	16258	5-	05658	12128	--	46009	11149	--	57009	13159
299	--	44309	16249	5-	02847	16227	--	44109	20249			
292	5-	05548	12158	5-	17538	00068	--	46009	00049	--	46109	00059
310	--	57109	04249	--	05428	24228				--	43205	04245
314	5-	05428	16248	57	05556	06127	--	46009	00049	--	46009	00049
333	8-	02647	16227	52	05646	28228	53	05674	20207	04	02990	00025
334	--	02645	28311	--	03657	06128				--	04309	00017
340				5-	05658	31228	--	46009	14149			
136	10	05644	13114	57	02951	06128	00	43190	00040	00	47190	10240
336	51	02763	12216	51	05652	24317				--	46309	12249
350				52	05656	16128	00	45190	00040	--	46009	06149
368	14	01743	08213	5-	05678	24328	50	05671	07201	54	05563	08316
379				00	05690	25223	00	41590	00040	00	43290	16143
390	10	01754	12244	53	02774	00024	00	45090	02140	--	46009	00049
382	50	05644	14214	53	05664	21126	00	45190	00040	00	45190	00040
438	00	[illegible]	00000							00	43390	06240
430	10	00861	10241	00	00890	20211	00	00790	00000	00	05690	04102
409	53	05743	13315	03	01790	28224	00	01790	09314	54	01744	11415

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 7th October, 1941.



Barometer. Isobars are drawn for intervals of two millibars. **Wind, Weather Symbols.** For explanation see opposite page. **Sea Disturbance.** ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FRONTS or boundaries between masses of air of different 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.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 7th October, 1941.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light or moderate S.E. wind; fair but with some fog forming during the night, dispersing tomorrow morning; rather warm.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Moderate S.E. wind, veering S.W. later; fair at first, but rain spreading from the west later; average temperature.
10 N.E. England 11 S.E. Scotland	As 1-3.
12 S.W. Scotland & Isle of Man. 13A. W. Scotland 13B. N.W. Scotland	As 4-9.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	As 1-3.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland ↓ 20 S. W. Ireland ↓	Moderate to fresh S.E. winds, strong locally in the South, veering S.W. and moderating later; cloudy, with occasional rain; bright intervals later; average temperature.

GENERAL INFERENCE.

A trough of low pressure is approaching from the S.W. and will cause rain to spread into western districts of the British Isles, where temperature will be about normal. Further east weather will continue rather warm and mainly fair, though some fog will develop at night.

FURTHER OUTLOOK.

Probably continuing fair in extreme east; unsettled elsewhere, with occasional rain or showers.
↓ Gale Warning issued districts 19, 20, at 0850h. 7/10.

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. S.268/4120 Wt.8176.0.8034.6p.948 3360 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

Tuesday 7th October

1941.

Clarke's Projection Scale 1 : 4 x 10⁷ along meridian at 95° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T., America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 7th October 1941.

No. 29,174

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1025.1	0	SE	2	m/F	52	97	4	-	-	-	0	0	-
	S. Farnborough	226	1025.2	0	-	0	F+	49	97	1	-	-	-	0	0	-
	Boscombe Down	417	1024.8	-2	E	3	F	51	97	1	-	-	-	0	0	-
	Thorney Island	10	1024.6	0	ENE	1	z	52	97	6	-	-	-	0	0	-
	Lympne	346	1025.1	-2	-	0	z	59	92	5	-	-	-	0	0	-
	Manston	154	1025.2	+2	-	0	m	55	97	4	-		-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1025.1	+2	SE	1	F	53	97	1	-	-	-	0	0	-
	Gorleston	5	1026.1	+4	-	0	F+	54	97	0	-	-	-	10	10	<150
	Mildenhall	19	1025.7	0	SE	1	F	50	97	1	-	-	-	0	0	-
	Cranwell	240	1025.7	+4	ESE	2	F	55	97	0	-	-	-	10	10	<150
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1025.3	+2	-	0	F	59	97	1	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1021.6	-4	ESE	3	bc	59	85	7	-	4	-	0	2-3	-
	Bristol	209	1024.6	0	-	0	fg	52	97	6	-	-	-	0	0	-
	Portland Bill	32	1023.4	-2	E	2	b	60	92	8	-	-	-	0	0	-
	Plymouth	82	1021.6	-6	E'S	4	b	58	92	7	-	3	1	0	1	-
	The Lizard	240	1021.0	-6	E'N	3	bc	58	97	8	4	6	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	1019.9	-8	ESE	4	c	57	97	7	5	5	-	2-3	9+	1500
	Guernsey	175														
6	Pembroke	142	1022.4	0	ESE	5	bc	60	92	7	-	6	-	0	4-6	-
7	Holyhead (Valley)	26	1022.6	-6	NE	2	m	53	97	4	-	5	-	0	7-8	-
	Chester (Sealand)	16	1024.0	+2	ESE	1	F+	53	97	1	-	-	-	10	10	<150
8	Manchester	236	1024.8	+2	-	0	iF	51	97	0	-	-	-	0	0	-
10	Spurn Head	29	1025.6	0	SE	2	F	56	97	0	-	-	-	10	10	<150
	Catterick	175	1025.6	+2	SSW	1	F+	55	97	0	-	-	-	10	10	<150
	Tynemouth	108	1025.2	+2	S	2	of	57	97	3	5	-	-	10	10	1500
11	St. Abbs Head	280	1023.5	+6	NE	2	F+	52	97	0	-	-	-	10	10	<150
	Leuchars	36	1024.2	+4	-	0	of-	56	97	3	5	-	-	10	10	700
12	Renfrew (Abbots I.)	19	1024.2	+6	-	0	cF-	52	97	1	5	-	-	7-8	7-8	3500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1023.7	0	SE'S	1	b	51	97	7	-	-	-	0	0	-
13A	Tiree	22	1022.5	0	SE	2	b	54	97	7	-	-	-	0	0	-
13B	Stornoway	80	1023.5	0	-	0	c/f	57	97	6	5	7	-	7-8	10	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	1023.6	+6	SW	1	c/f	52	97	5	5	7	9	4-6	7-8	2000
16	Sumburgh	30	1023.2	-18	-	0	r/tlp	53	97	5	9	-	-	10	10	200
17	Blacksod Point	18	1018.4	-12	SE	1	c	57	85	8	-	5	-	0	7-8	-
18	Malin Head	84	1021.6	-4	SSW	1	bc	54	92	8	4	-	-	4-6	4-6	4000
	Aldergrove	268	1023.1	-2	NE	1	F+	46	97	1	-	-	-	0	0	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1015.4	-14	E	5	c	61	85	8	5	3	2	4-6	9+	2500
	Roches Point	22	1018.7	-14	ESE	5	ir	60	92	7	6	2	-	7-8	9+	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 6th Hrs. (36)
London (Kew)	1024.7	+2	ENE	2	F	56	92	1	-	-	-	10	10	<150	1	*	71	51	44	-	Tr	6.2
Croydon	1025.1	+2	S	1	m	47	97	4	-	-	1	0	Tr	-	1	*	75	46	43	Tr	0.1	6.3
S. Farnborough	1024.7	-2	-	0	F+	52	97	0	-	-	-	10	10	<150	1	*	72	47	43	Tr	0.2	5.7
Boscombe Down	1024.3	+4	E'N	3	z	51	97	5	-	-	2	0	1	-	0	*	71	49	44	-	0.2	5.6
Thorney Island	1023.7	0	E	3	z	56	97	6	-	-	1	0	2-3	-	0	*	71	50	45	-	-	*
Lympne	1024.9	+2	-	0	b;f	56	97	6	-	-	1	0	Tr	-	0	§	72	53	42	-	-	9.6
Manston	1025.1	+2	E	1	bF+	57	97	0	-	-	-	0	0	-	1	*	73	49	45	-	0.2	10.1
Shoeburyness	1025.2	+2	NNE	1	F	55	97	0	-	-	-	10	10	<150	1	*	65	49	39	-	0.2	6.2
Felixstowe	1025.0	+2	NE	1	F	54	97	1	-	-	-	10	10	<150	1	0	69	50	45	-	-	5.6
Gorleston	1026.0	0	-	0	F	56	97	0	-	-	-	10	10	<150	1	1	65	56	54	-	-	*
Mildenhall	1025.8	+2	-	0	F-	48	97	1	-	-	-	0	0	-	0	*	75	43	39	Tr	Tr	5.7
Cranwell	1025.5	0	SE'E	1	F-	53	97	1	-	-	-	10	10	<150	1	*	63	53	52	-	0.2	0.0
Birmingham	1024.8	+2	-	0	F	51	97	1	-	-	-	10	10	<150	1	*	64	50	42	0.1	0.2	0.8
Upper Heyford	1024.8	+2	NE	1	F	49	97	0	-	-	-	0	0	-	1	*	68	47	45	Tr	Tr	*
Ross-on-Wye	1024.5	0	NE'N	1	F	48	97	1	-	-	-	10	10	<150	1	*	68	46	43	-	0.1	4.5
Hartland Point	1020.0	-6	ESE	3	c	59	92	8	2	4	6	2-3	7-8	1500	0	3	67	57	54	-	-	6.6
Bristol	1024.6	+6	-	0	F	50	97	0	-	-	-	10	10	<150	0	*	71	49	40	-	0.1	5.6
Portland Bill	1022.5	-4	ENE	3	c	60	92	8	5	-	-	7-8	7-8	2500	1	3	64	58	*	-		*
Plymouth	1021.2	+2	E	3	c	59	97	7	2	8	8	1	9	1500	1	3	68	57	54	-	-	5.0
The Lizard	1020.5	+4	E	3	c	59	97	7	8	6	-	7-8	7-8	1500	1	4	57	55	*	-	-	0.0
Scilly (St. Mary's)	1018.7	0	SE'S	4	c	60	97	7	8	7	-	7-8	9+	1500	1	4	62	55	*	Tr	-	1.0
Guernsey																						
Pembroke	1021.4	+14	ESE	5	c	60	92	7	8	5	-	4-6	7-8	3000	0	3	63	58	*	-	-	6.2
Holyhead (Valley)	1021.9	+2	NE	2	c	55	85	8	5	3	9	2-3	7-8	3400	0	2	64	50	46	0.1	Tr	*
Chester (Sealand)	1023.9	0	SE	3	dF	52	97	1	-	-	-	10	10	<150	1	*	66	52	46	Tr	Tr	2.9
Manchester	1025.7	+14	-	0	m/F	46	97	4	-	3	4	0	9	-	7	*	64	45	39	-	-	*
Spurn Head	1025.5	+2	ESE	1	F	55	97	0	-	-	-	10	10	<150	1	0	60	54	*	Tr	Tr	0.0
Catterick	1026.0	+6	-	0	dF	53	97	0	-	-	-	10	10	<150	1	*	60	52	50	Tr	Tr	0.0
Tynemouth	1025.6	+6	SW	2	m	55	97	4	5	-	-	10	10	800	0	3	56	55	51	-	-	*
St. Abbs Head	1024.8	+6	SW	1	m	52	92	4	5	4	-	7-8	9	1500	1	2	56	51	*	1	0.2	*
Leuchars	1024.6	+4	-	0	of-	51	97	2	5	-	-	10	10	400	1	*	56	51	44	0.4	-	0.0
Renfrew (Abbots I.)	1024.5	+6	E'N	1	F+	49	97	1	-	-	-	10	10	<150	1	*	60	48	43	1	-	0.0
Eskdalemuir	1024.4	0	-	0	m	53	97	4	5	-	-	10	10	450	1	*	59	51	43	0.6	-	0.0
Point of Ayre	1023.1	0	SSE	3	f	58	97	3	-	-	-	10	10	<150	1	2	61	48	*	-	-	1.7
Tiree	1022.5	0	SE'E	2	c	54	97	7	5	-	-	7-8	7-8	2500	0		61	51	*	-	-	4.5
Stornoway	1023.8	+8	-	0	c	51	97	6	5	7	-	4-6	9	2000	1	1	56	49	*	5	-	0.3
Dalwhinnie	1024.3	+2	S	1	c	39	92	6	5	-	1	7-8	9+	1500	1	*	54	37	31	15	0.1	0.5
Aberdeen	1024.7	+10	-	0	m	43	97	4	-	-	1	0	1	-	1	2	55	42	3-	0.6	0.3	0.0
Wick	1024.2	+12	SW	1	b;f	47	97	7	-	7	-	0	Tr	-	1	*	56	47	*	Tr	5	*
Sumburgh	1023.6	+8	-	0	f+	53	97	2	-	-	-	10	10	<150	1	2	54	51	50	1	2	1.3
Blacksod Point	1016.4	-6	SE	4	c/pr	58	92	7	6	-	-	10	10	800	1	4	64	50	*	-	1	*
Malin Head	1020.6	-6	S	3	rr	55	97	7	6	-	-	9	9	1500	0	3	60	52	*	Tr	0.6	3.2
Aldergrove	1022.3	-2	E	2	ir	55	97	6	5	2	-	4-6	10	2500	1	*	65	45	36	2	2	2.7
Birr Castle	1017.9	-4	S	3	c/pr	60	85	8	8	1	-	7-8	10	1500	0	*	67	54	48	-	0.2	6.1
Valentia Obsy.	1012.2	-18	SE'S	7	c	64	75	8	8	-	3	7-8	9	2500	1	5	67	60	56	-	2	9.1
Roches Point	1016.5	-10	ESE	5	c	60	92	7	5	7	-	7-8	9+	1500	1	5	63	58	*	-	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	oFfbbcz	bcbz	bz bfeoFF	71	51	44	-	Tr	6.2	*	*	1
Croydon	217	oFcmbc	bcbmz	bmwjfF	75	46	43	Tr	0.1	6.3	*	*	4
Greenwich (Royal Observatory)	149	Febmz	b	bmfeE	75	51	40	-	Tr	6.5	64	93	2
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	75	55	50		-		65	96	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	o	bc	*	75	53	47	-	-	*	*	99	*
Kensington	80	bmbc	bcd	*	74	53	45	-	-		83	100	*
Hampstead Observatory	450	of	bc	bcof	71	51	47	-	-		*	95	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
0.5	1-3h. 7th	<0.1	13-16h. 6th

FOREIGN OBSERVATIONS.

Evening of 6th October — Morning of 7th October

Stations	Evening Barom. mb.	Evening Wind Direc.	Evening Wind Force	Evening Weather	Evening Temp. °F.	Morning Barom. mb.	Morning Wind Direc.	Morning Wind Force	Morning Weather	Morning Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1019.4	-	0	b	50	1019.1	E	2	c/r	50	*	*	*	*
Lisbon (18h and 07h)	1018.9	W	3	c	63	1021.7	ENE	1	if	59	68	55	8	06
¶Madrid (18h and 07h)	905.1	-	0	bc	63						72		-	
Cairo (Heliopolis) (18h and 06h)						1016.6	E'N	1	bc	67		61		-
Toronto (13h and 01h)	1017.6	N	3	m	58									
Washington (13h and 01h)	1018.6	SE	1	z	75	1018.0	SW	2	bc	85	91	66	-	-

¶Pressure at 1,000 dynamic metres level.

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22—Code for surface visibility.

Objects not visible at
- 0 Dense fog 55 yards.
- 1 Thick fog 220 ,,
- 2 Fog 550 ,,
- 3 Moderate fog 1,100 ,,
- 4 Mist or haze 1½ miles.
- 5 Poor visibility 2½ ,,
- 6 Moderate ,, 6¼ ,,
- 7 Good ,, 12½ ,,
- 8 Very good ,, 31 ,,
- 9 Excellent ,, beyond 31m.

COLUMN 30—Code for State of Sea.

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Wednesday 8th October, 1941.

No. 29,175.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1024·2	-8	ENE	3	bf	66	85	3	–	–	1	0	1	–
	Croydon	1024·3	-8	ENE	1	bcz$_o$	71	75	5	1	–	4	4-6	4-6	3000
	S. Farnborough	1024·0	-10	SE	1	z$_o$	70	75	6	2	8	2	1	9+	2500
	Boscombe Down	1023·3	-6	SSE	4	bc	71	75	7	8	–	6	2-3	4-6	2500
	Thorney Island	1024·0	-4	ESE	3	z$_o$	69	75	6	1	–	6	Tr	4-6	2500
	Lympne	1025·1	+2	SE	1	m	64	85	4	–	–	1	0	Tr	–
	Manston	1025·2	-2	E	1	f–	60	97	3	–	–	–	10	10	<150
2	Shoeburyness	1025·5	-2	E'N	2	f	59	97	2	–	–	–	10	10	<150
	Felixstowe	1025·1	-2	ENE	2	f–	59	97	3	5	–	–	10	10	100
	Gorleston	1026·1	-2	E'S	2	f	60	97	3	–	–	–	10	10	<150
	Mildenhall	1025·3	-6	E	2	z$_o$	67	85	6	–	–	6	0	7-8	–
	Cranwell	1025·2	-6	ESE	1	z$_o$	61	92	5	5	–	–	4-6	7-8	600
3	Birmingham	1023·8	-4	SE	2	c	66	85	6	–	5	6	0	9	–
	Upper Heyford	1024·0	-6	SE'S	1	z$_o$	69	75	6	5	–	8	Tr	7-8	2500
4	Ross-on-Wye	1022·6	-12	E'S	2	z$_o$	67	85	6	–	8	8	0	7-8	–
5	Hartland Point	1020·0	0	SW	3	c	68	75	7	2	3	–	2-3	7-8	1500
	Bristol	1022·9	-10	ESE	3	c	70	75	7	2	8	1	1	7-8	2000
	Portland Bill	1023·0	0	E	3	c	63	85	7	1	–	–	7-8	7-8	2500
	Plymouth	1020·8	0	SE	4	o	68	75	8	8	3	2	2-3	9	2000
	The Lizard	1021·1	+4	SSE	3	c/pr	60	92	7	8	2	–	9	10	1500
	Scilly (St. Mary's)	1020·3	+6	SSW	3	bc	66	85	7	8	4	4	2-3	4-6	1000
	Guernsey														
6	Pembroke	1020·5	-4	ESE	5	c	63	85	6	8	7	–	4-6	7-8	3000
7	Holyhead (Valley)	1020·9	-10	SSE	2	c	69	65	8	5	9	–	Tr	9	3500
	Chester (Sealand)	1023·2	-10	SSE	2	o/f	58	97	4	5	–	–	10	10	400
8	Manchester	1023·8	-10	SE'S	3	c	69	65	7	1	–	6	Tr	9	3000
10	Spurn Head	1025·8	+2	SE'S	1	F	56	97	1	–	–	–	10	10	<150
	Catterick	1025·4	-6	S'E	1	z$_o$	59	92	5	5	–	–	10	10	800
	Tynemouth	1025·8	-4	SSE	3	m	57	97	4	5	–	–	7-8	7-8	1500
11	St. Abbs Head	1024·2	-2	SSE	1	c	54	97	4	5	4	–	7-8	9	2000
	Leuchars	1024·7	-4	ESE	1	m	53	97	4	5	–	–	10	10	100
12	Renfrew (Abbots I.)	1024·0	-4	NE'E	2	id$_o$	55	92	4	5	–	–	10	10	2000
	Eskdalemuir	1023·5	-4	ENE	1	c	63	75	7	5	–	–	9+	9+	1500
	Point of Ayre	1022·7	-4	SSE	3	z$_o$	62	92	5	–	–	6	0	9+	–
13A	Tiree	1021·9	-6	SE'E	3	d$_o$d	56	97	7	5	–	–	9	9+	1500
13B	Stornoway	1023·1	-2	ESE	1	bc	58	85	7	–	4	5	0	4-6	–
15	Dalwhinnie	1024·3	-2	S	2	c	56	75	7	7	3	–	2-3	7-8	1500
	Aberdeen	1025·0	+2	SSW	2	m	55	97	4	5	–	–	7-8	7-8	800
	Wick	1024·9	+2	SSE	1	f	57	97	2	–	–	–	10	10	<150
16	Sumburgh	1024·8	+6	W	2	bc	56	92	7	5	–	–	4-6	4-6	2500
17	Blacksod Point	1012·9	-16	ESE	5	c	65	85	8	2	5	–	4-6	7-8	1500
18	Malin Head	1019·1	-14	–	0	c	62	85	7	8	–	–	9	9	1500
	Aldergrove	1020·6	-14	ENE	3	z$_o$	63	85	5	–	7	2	0	9+	–
19	Birr Castle	1016·7	-8	S	3	c	67	75	8	5	–	8	4-6	9	2500
20	Valentia Obsy. †	1013·2	+10	S'E	6	c	64	85	8	6	–	–	10	10	2500
	Roches Point	1016·4	0	SSE	6	c	62	92	8	5	3	5	2-3	7-8	1500

OBSERVATIONS at 18h. G.M.T. 7th October. — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.—13h. 7th (37)	Weather 13h.—18h. 7th (38)	Weather 18h. 7th to 1h. 8th (39)	Weather 1h.—7h. 8th (40)
London (Kew)	1025·0	+10	E'N	3	f+	60	97	2	–	–	–	10	10	<150	1	•	oFFbf	bfcbmof	off	off
Croydon	1024·8	+10	E	1	f+	61	97	1	–	–	–	10	10	<150	1	•	fgbmbcm	bczbcmo	FoFe	oFebcfcF
S. Farnborough	1024·3	+4	SSE	2	c	64	85	6	4	8	6	1	7-8	3500	0	•	oFbfcm$_o$	cz$_o$bccm$_o$	embcwof	oF Fwe
Boscombe Down	1024·1	+10	SE'S	2	z$_o$	62	85	6	–	7	2	0	7-8	–	0	•	bcm$_o$bc	bccm$_o$	bcifFoF	oFem
Thorney Island	1024·1	+2	E'S	2	z$_o$	61	97	6	–	4	1	0	4-6	–	0	•	bm$_o$wbcm$_o$	bcbcm$_o$	bcmF	FW
Lympne	1025·6	+6	–	0	if	56	92	3	–	–	1	0	Tr	–	0	§	bm$_o$m	bm$_o$bcm$_o$	bFFff	boFF
Manston	1025·5	+4	–	0	F+	57	97	1	–	–	–	10	10	<150	1	•	oFe	oFe	oFe	oFe
Shoeburyness	1025·6	+4	ENE	1	F+	58	97	1	–	–	–	10	10	<150	1	•	oFeFe	oFeFe	oFe	oFdFe
Felixstowe	1025·0	+2	E'N	2	f+	58	97	2	–	–	–	10	10	<150	0	1	oFFeof	oid$_o$foff	bm$_o$wF	oid$_o$FoF
Gorleston	1025·9	0	NE	1	o	57	97	4	5	–	–	10	10	500	1	1	oFfe	offm	om fe	ofFe
Mildenhall	1025·7	+4	SE	2	f+	59	97	2	–	–	–	10	10	<150	0	•	oFebcm$_o$	cm$_o$omof	em$_o$ Fw	oFefeFe
Cranwell	1024·9	+2	E'S	3	F	58	92	0	–	–	–	10	10	<150	1	•	Fe, bcm$_o$		oFFe	oFedF
Birmingham	1024·1	+2	ESE	2	m	63	92	4	5	3	–	4-6	7-8	2500	1	•	Fbcc	cbcm	cm	cq
Upper Heyford	1024·1	+10	E'S	2	z$_o$	65	85	5	–	6	–	0	2-3	–	1	•	dFbcm	cbcbz$_o$z	bz$_o$bFoF	oFodfeom
Ross-on-Wye	1022·7	0	SE	1	z$_o$	65	85	6	5	9	2	1	7-8	2500	1	•	Fofcmbcz	bcz$_o$		cZbcz
Hartland Point	1022·0	+14	S	3	c	63	85	7	5	4	9	4-6	7-8	1500	0	3	c	c	cbcc	c
Bristol	1023·2	+10	SSE	2	c	67	75	7	5	3	6	4-6	9+	3000	0	•	oFcm$_o$bc	bccbc	bc Φ	cm$_o$cw
Portland Bill	1023·5	-8	ESE	3	c	62	92	7	5	4	–	4-6	10	2500	1	3	c	c	coff	off
Plymouth	1022·9	+14	SSW	2	c	61	92	6	5	–	–	10	10	400	0	2	cbcc	c	cm	emFed
The Lizard	1022·7	+10	S	2	bc	58	92	6	4	6	–	4-6	4-6	2500	0	3	cpr$_o$c	cfm$_o$bcz$_o$	cbccmw	FFfeomo
Scilly (St. Mary's)	1021·5	+10	SSW	4	c	60	97	7	8	7	7	4-6	9	1200	1	5	crcbc	cbcc	cw	c
Guernsey																				
Pembroke	1021·2	+4	S	4	c	60	97	6	7	9	–	4-6	9	2500	0	2	c	c	cw	cwcr$_o$c
Holyhead (Valley)	1021·0	+2	SSE	2	z$_o$	64	85	6	8	7	6	7-8	9+	3000	0	1	cv	cm$_o$	cm$_o$	cirm
Chester (Sealand)	1022·4	+4	SE'S	2	bcf+	63	85	3	–	7	–	0	4-6	–	1	•	FeFerfo	ocmbcf	bcoffw	cFfFffw
Manchester	1023·3	+4	E'S	2	m	63	85	4	–	3	2	0	4-6	–	1	•	bcmcm$_o$c	cbcm$_o$	cm	cfimm$_o$w
Spurn Head	1025·6	+2	SE	3	F	56	97	0	–	–	–	10	10	<150	1	2	FF	FF	om	FF
Catterick	1025·2	+4	SSE	1	dF	58	97	1	–	–	–	10	10	<150	1	•	d$_o$fmm$_o$	omofdf	Fidf	ir$_o$F
Tynemouth	1025·3	+4	SSE	2	F+	53	97	1	–	–	–	10	10	<150	0	3	offcm	oFF	oFeFe	omir
St. Abbs Head	1023·6	0	S	3	F	54	97	0	–	–	–	10	10	<150	1	2	Ffecm	cmFff	cmFFb	Fcmb
Leuchars	1024·5	+2	–	0	F+	53	97	1	–	–	–	10	10	<150	1	•	ofom	omfmfF	oFd$_o$d	oFd doif
Renfrew (Abbots I.)	1023·3	0	E'S	3	m	56	97	4	5	–	–	10	10	2500	1	•	oFFfid$_o$	id$_o$m$_o$m$_o$	cmfofir	RRir$_o$m
Eskdalemuir	1023·5	+2	N'E	2	c	58	92	5	5	–	–	9	9	1500	1	•	om$_o$c	cm$_o$	oRrm$_o$	cm$_o$of
Point of Ayre	1021·6	0	S'W	2	z$_o$	62	92	6	6	7	7	4-6	10	2500	0	2	ffcz	cz$_o$	cffc	cfmm$_o$w
Tiree	1020·3	-4	SE'E	3	c	58	85	7	5	–	–	9	9	2100	0	4	cdrr	c	cir	ctlir
Stornoway	1021·9	-4	NE	2	c	58	97	7	5	7	5	7-8	9+	3500	1	1	bc	bcc	cpr	cpr
Dalwhinnie	1023·0	-4	SE	3	o	55	75	7	7	–	–	10	10	2500	1	•	bcc	cid$_o$c		cpr
Aberdeen	1024·9	+2	S'E	2	o/r	53	97	2	5	–	–	10	10	300	1	2	bm$_o$cm	cm$_o$offiff	offid	offidir$_o$
Wick	1024·9	+2	E'S	2	F+	50	97	1	–	–	–	10	10	<150	1	*	bifFf	FFe	Fd$_o$dFf	Fefmirm$_o$
Sumburgh	1025·2	0	SSE	1	b	52	92	8	–	–	–	0	0	–	1	2	FFcbc	cbcb	bbw, cm$_o$	cm$_o$c
Blacksod Point	1012·5	0	ESE	4	pr	61	85	8	6	–	–	9+	9+	1500	0	3	cbc	pr$_o$c	cq	c
Malin Head	1017·9	0	SE	4	c	61	92	6	5	–	–	7-8	7-8	2500	0	3	c	c	c	c
Aldergrove	1020·0	0	SE'E	3	c/r	60	85	5	5	7	7	2-3	10	2500	1	•	r$_o$r$_o$m$_o$cm$_o$	z$_o$cir$_o$m$_o$	ir$_o$m$_o$bcm$_o$	d$_o$d$_o$m$_o$irc
Birr Castle	1017·0	+2	S	2	c/pr	62	85	8	9	2	–	4-6	10	1500	0	•	c	cpr	*	circ
Valentia Obsy. †	1013·1	+12	S	5	c/r	60	97	6	6	2	–	9	10	1500	1	5	cPRc	ciriRc	ir$_o$cm$_o$w	cwcw
Roches Point	1017·6	+6	S	5	ir$_o$	61	97	7	6	1	–	7-8	9+	800	1	5	c	cir$_o$	ir$_o$ir	rrdrdr

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$_o$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕ Solar halo. Φ lunar halo. Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6: similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.

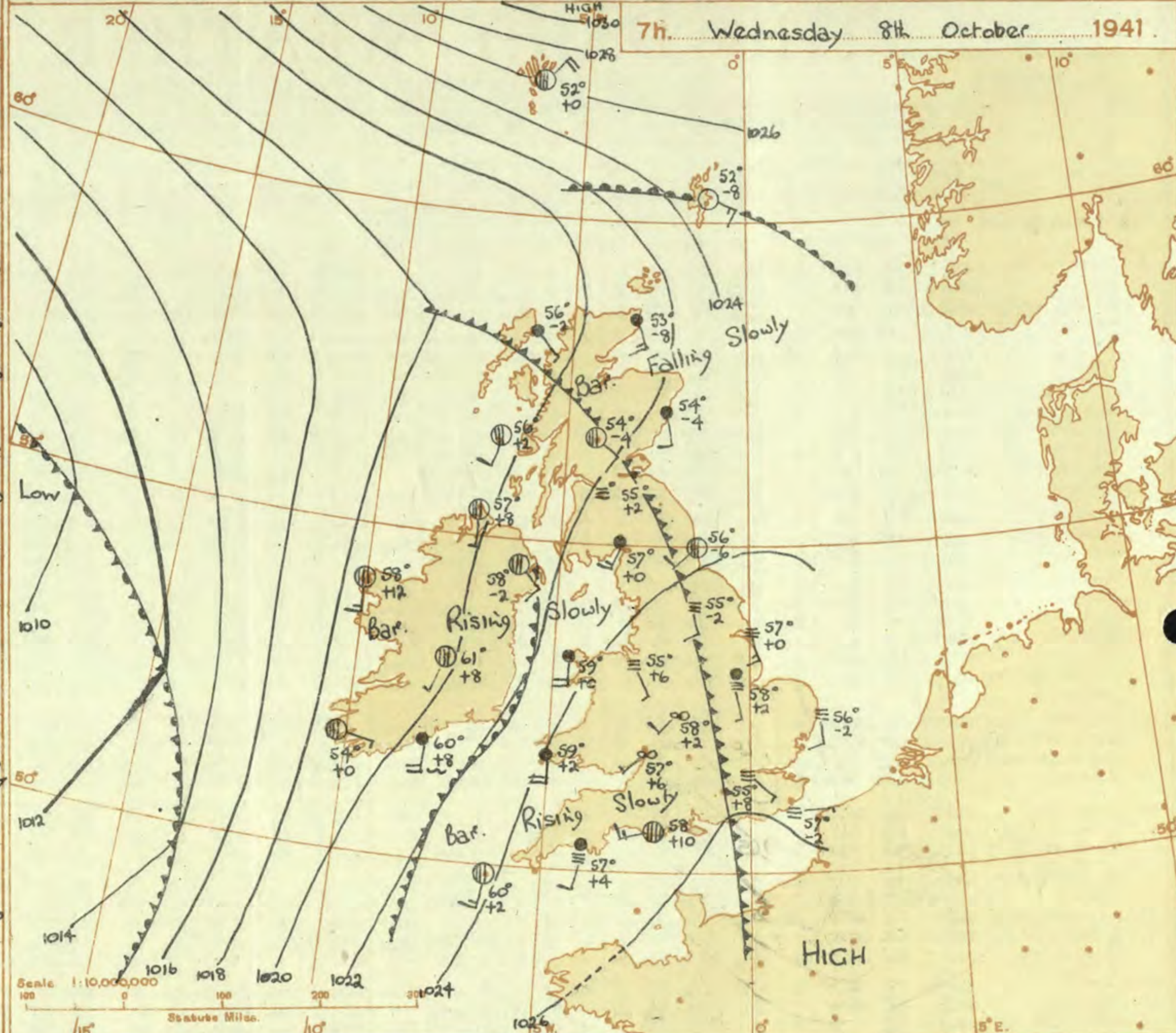
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 8th October 1941.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 7th October				18h. G.M.T.		01h. G.M.T. 8th October				07h. G.M.T.	
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	2-	09654	00044	--	44309	11249	--	48209	11349	5-	05508	12348
115	54	01844	10225	54	09734	08326	51	02844	12286	52	81844	20287
203												
206	--	44409	12259	--	67309	06269	--	57209	00069	--	46209	14269
210	5-	08407	07247	53	08475	00047	--	46109	00049	57	61555	00068
220	53	03746	13417							80	25734	12284
230	/	62662	00068	57	05664	22057	57	22657	00069	52	62657	00028
245	--	48309	10149	--	46309	04149	--	57109	08359	--	44209	28169
260	5-	45328	00048	--	48109	06149				--	48109	04149
278	04	05690	11367	57	05662	12328	5-	22428	14368	5-	51638	15268
279	87	05590	05227	03	05590	06227	--	67309	000**	57	05535	18248
285	5-	05537	08327	--	48109	12329				5-	03638	26368
288	5-	05636	19127	--	48209	00049	5-	05528	1328*	--	44309	21269
575	53	05654	10227	87	05646	11267	5-	05648	14258	53	02737	10158
301	00	05590	12327	03	47390	10325	07	43390	11268	51	61466	14268
321	--	46209	14249	5-	08428	12128	5-	46008	10258	5-	43318	17248
299	--	46109	07249	--	46009	14349	--	48109	14249	--	46009	15349
292	5-	08408	09148	--	48109	11149	--	57009	10149	--	57109	00059
310	--	01644	12314	--	48209	12329				--	01636	26316
614	5-	41424	08147	07	05590	06225	--	46009	00049	--	44209	22249
333	07	02990	09327	87	02766	14267	5-	02764	16528	52	53664	16368
334				--	02645	26216				--	25645	24286
340				07	05490	08321	--	46309	12249	07	22590	16147
136	--	44209	10249	--	46109	10249	--	46109	14159	--	44109	14149
336	51	02763	16328	51	02752	12317				51	02763	16327
350	10	41490	06241	07	08490	10213	--	44109	14249	--	44259	24249
368	28	01651	08414	17	02651	16316				57	02753	00026
379	03	05690	12315				--	46109	16149	53	02746	20347
390	5-	43318	11148	--	48009	12149	--	46109	12149	--	44109	22149
382	00	05690	13316	03	17490	16114	--	46109	12249	5-	05538	20148
438	--	46109	04149							57	04703	00046
430	00	01790	14214	05	05590	06214	00	47290	04112	--	46109	00049
409	57	05646	16517	57	05623	16214	53	09634	15226	5-	25628	16388

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



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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 8th October 1941
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light south to southwest winds; fair during the day with partly cloudy skies but much fog or low cloud forming after sunset, and persisting for some hours after sunrise. Temperature average but rather close.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light or moderate south to southwest winds: cloudy with local rain or drizzle and fog patches on coasts: average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1-3.
12 S.W. Scotland & Isle of Man. 13A. W. Scotland 13B. N.W. Scotland 14 Mid Scotland	As 4-8.
15 N. E. Scotland 16 Orkneys and Shetlands	Light to moderate southeast wind. Dull with occasional rain or drizzle. Average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 4-8.

GENERAL INFERENCE.

Pressure remains high to the southeast of the British Isles and low to the West. Feeble troughs of low pressure moving north east will maintain rather unsettled weather with occasional rain or drizzle in the Western half of the British Isles but in the Eastern half it will remain fair during the day with fog at night.

FURTHER OUTLOOK.

Continuing fair and rather warm in the southwest and east with some fog at night, but unsettled in the west and southwest with further periods of rain.

Forecasts issued at 10.30h

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

H.M.S.O. Press, Meteorological Office Dunstable. 9.269/4120 Wt. 8/76 D 6034 Gp. 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.)

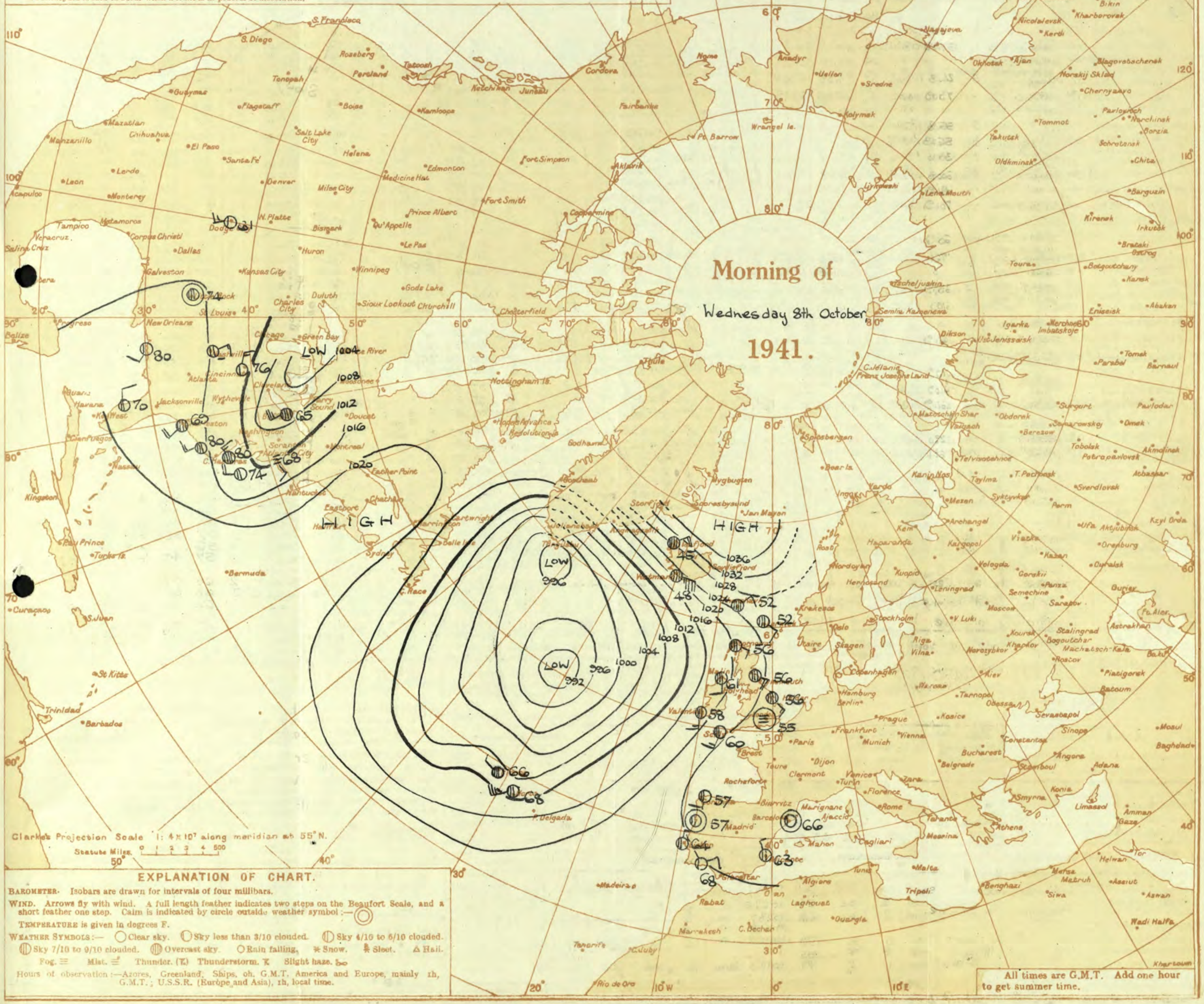
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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. T Slight haze. ∞

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h, G.M.T. ; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 8th October, 1941.

No. 29,175.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1026.0	+6	-	0	F	55	97	1	-	-	-	10	10	<150
	S. Farnborough	226	1026.2	+6	-	0	f+	55	97	2	-	-	-	10	10	<150
	Boscombe Down	417	1026.0	+6	ESE	2	F	56	97	0	-	-	-	10	10	<150
	Thorney Island	10	1025.7	+6	E	1	F+	58	97	0	-	-	-	10	10	<150
	Lympne	346	1026.3	+2	-	0	bf-	50	97	3	5	-	1	Tr	1	3000
	Manston	154	1026.6	+6	-	0	F	55	97	1	-	-	-	10	10	<150
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1025.1	+2	SE	1	F	53	97	1	-	-	-	0	0	-
	Gorleston	5	1026.3	+2	SW'W	1	f	56	97	2	-	-	-	10	10	<150
	Mildenhall	19	1025.7	0	SE	1	F	50	97	1	-	-	-	0	0	-
	Cranwell	240	1025.3	-2	SE'S	4	F	57	97	1	-	-	-	10	10	<150
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1025.3	+4	-	0	F	57	97	0	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024.0	+4	SSE	3	c	58	92	7	-	3	-	0	7-8	-
	Bristol	209	1025.3	+8	-	0	z	58	97	6	5	4	6	Tr	9	1500
	Portland Bill	32	1025.2	+12	SW	2	cf	60	92	3	5	-	-	10	10	<150
	Plymouth	82	1024.7	+2	S'W	3	z	60	97	5	5	3	-	4-6	9+	1000
	The Lizard	240	1024.8	+4	S	3	m	58	97	4	5	-	-	7-8	7-8	1000
	Scilly (St. Mary's)	163	1023.5	+6	S'W	3	c	60	97	7	5	3	3	2-3	7-8	1500
	Guernsey	175														
6	Pembroke	142	1023.8	+6	S	4	c	59	97	7	8	7	-	4-6	9	2500
7	Holyhead (Valley)	26	1022.7	+6	S	3	z	60	92	5	5	1	-	9	10	1000
	Chester (Sealand)	16	1023.2	+2	SSE	2	cf	60	97	2	-	3	-	0	9+	-
8	Manchester	70	1024.1	+2	SE'S	3	m	62	92	4	5	7	-	4-6	10	3500
10	Spurn Head	29	1025.5	0	SE'S	3	m	56	92	4	5	-	-	10	10	2500
	Catterick	175	1025.1	-4	S'E	3	dF	56	97	1	-	-	-	10	10	<150
	Tynemouth	108	1025.0	-4	SE	4	m/f	52	97	4	5	-	-	10	10	800
11	St. Abbs Head	280	1023.7	+4	S	3	F	52	97	0	-	-	-	10	10	<150
	Leuchars	36	1023.3	-8	-	0	dF	54	97	1	-	-	-	10	10	<150
12	Renfrew (Abbots I.)	19	1022.7	-2	NE	1	ir	55	97	4	5	-	-	10	10	1000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1022.3	+2	SW	2	c	60	97	6	6	2	-	7-8	10	1000
13A	Tiree	22	1019.7	0	SEE	4	c	58	92	7	5	-	-	9+	9+	2100
13B	Stornoway	80	1021.3	-2	ESE	2	c	56	97	7	5	7	-	7-8	9	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	1023.5	-6	E	2	F	54	97	1	-	-	-	10	10	<150
16	Sumburgh	30	1025.7	-4	SE	2	z	52	92	6	5	-	-	10	10	900
17	Blacksod Point	18	1016.5	+18	S	5	eq	60	92	7	9	-	-	7-8	7-8	1500
18	Malin Head	84	1018.5	+2	S	2	c	61	92	7	8	-	-	7-8	7-8	2500
	Aldergrove	268	1021.1	+4	SE'S	3	z	58	92	6	5	5	3	1	7-8	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1018.0	+14	SSE	3	z	58	97	6	5	5	-	4-6	9+	5700
	Roches Point	22	1019.6	+2	S	5	ir	60	97	7	6	2	-	7-8	9+	800

OBSERVATIONS at 7 hr. G.M.T. 8th October

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1026.0	+6	SSW	1	F	58	97	1	-	-	-	10	10	<150	1	*
	Croydon	1026.0	+8	SE	1	cf-	55	97	3	5	-	-	10	10	600	1	*
	S. Farnborough	1025.9	+2	-	0	F+	55	97	1	-	-	-	10	10	<150	1	*
	Boscombe Down	1026.5	+8	WSW	2	cf-	55	97	4	5	-	-	10	10	100	0	*
	Thorney Island	1025.8	+4	-	0	F	57	97	0	-	-	-	10	10	<150	0	*
	Lympne	1025.7	-2	E	1	F	57	97	1	-	-	-	10	10	<150	0	§
	Manston	1026.0	-2	-	0	F	56	97	1	-	-	-	10	10	<150	1	*
2	Shoeburyness	1026.0	+10	SSE	1	f-	56	97	2	-	-	-	10	10	<150	1	*
	Felixstowe	1025.4	-2	-	0	df	57	97	2	-	-	-	10	10	<150	1	0
	Gorleston	1025.8	-2	S	2	F	56	97	1	-	-	-	10	10	<150	1	1
	Mildenhall	1025.8	+2	-	0	F	56	97	1	-	-	-	10	10	<150	0	*
	Cranwell	1024.8	+2	S	1	dF	58	97	1	-	-	-	10	10	<150	1	*
3	Birmingham	1025.3	+2	SW	2	z	58	97	5	5	-	-	10	10	2500	1	*
	Upper Heyford	1025.5	+4	SSW	1	z	57	97	5	5	-	-	9+	9+	900	1	*
4	Ross-on-Wye	1024.5	+6	SW'S	1	z	57	97	5	-	7	-	0	9+	-	1	*
5	Hartland Point	1024.8	+6	SSE	3	c	58	92	8	5	1	-	2-3	9	2500	0	3
	Bristol	1026.2	+6	SW	2	c	55	97	7	5	3	6	Tr	9+	500	0	*
	Portland Bill	1025.9	+10	WSW	3	o	58	92	7	5	-	-	10	10	2500	1	3
	Plymouth	1025.4	+4	S'W	2	dF	57	97	1	5	-	-	10	10	<150	1	*
	The Lizard	1025.4	+6	S	3	if	58	92	7	5	1	-	7-8	9+	1000	1	4
	Scilly (St. Mary's)	1023.9	+2	S'W	3	c	60	97	6	5	-	-	9+	9+	1200	1	4
	Guernsey																
6	Pembroke	1024.1	+2	S	4	rs	59	92	6	8	2	-	7-8	10	2000	1	3
7	Holyhead (Valley)	1022.8	0	S	4	ir	59	92	6	5	7	-	9	10	800	1	2
	Chester (Sealand)	1024.1	+6	SSE	1	cf-	55	97	3	5	-	-	9+	9+	2500	1	*
8	Manchester	1024.9	+10	S	1	z	56	97	5	5	7	-	7-8	9	2500	1	
10	Spurn Head	1025.3	0	S'E	3	F+	57	97	1	-	-	-	10	10	<150	1	2
	Catterick	1024.3	-2	S'E	2	F-	55	97	1	-	-	-	10	10	<150	1	*
	Tynemouth	1023.2	-6	SW	2	m/r	56	97	4	-	2	-	10	10	800	1	3
11	St. Abbs Head	1022.5	-6	SE	2	c/d	54	97	5	5	2	-	9	10	2200	1	2
	Leuchars	1022.2	-2	-	0	f-	54	97	2	-	-	-	10	10	<150	1	*
12	Renfrew (Abbots I.)	1022.3	+2	-	0	m	55	97	4	5	-	-	10	10	1200	1	*
	Eskdalemuir	1022.7	0	SSW	3	dd	57	97	4	-	2	-	10	10	<150	1	
	Point of Ayre	1022.7	0	SW'S	2	rr	59	92	8	6	2	-	7-8	10	2000	1	2
13A	Tiree	1019.8	+2	S'W	2	c	56	92	8	5	3	-	4-6	7-8	2500	0	2
13B	Stornoway	1019.8	-2	SE	1	pr	56	97	6	5	7	-	9	10	2000	1	1
15	Dalwhinnie	1021.3	-4	SE	2	c	54	85	6	7	-	-	9+	9+	2500	1	*
	Aberdeen	1022.3	-4	S'E	2	pr	54	97	3	5	-	-	10	10	200	1	2
	Wick	1021.6	-8	SSE	3	ir	53	97	5	5	-	-	10	10	200		*
16	Sumburgh	1024.3	-8	ESE	3	c	52	92	7	5	-	-	10	10	900	1	2
17	Blacksod Point	1018.7	+12	S	3	c	58	97	7	5	-	-	9	9	1500	1	2
18	Malin Head	1019.5	+8	S	1	c	57	97	8	5	-	5	2-3	7-8	4000	0	2
	Aldergrove	1021.1	-2	SE'S	2	c	58	92	7	5	7	-	9+	10	2000	1	*
19	Birr Castle	1019.1	+8	SSW	1	c	61	97	8	9	7	-	7-8	9	1500	1	*
20	Valentia Obsy.	1018.4	0	E'S	1	c	54	97	8	5	3	1	7-8	9+	4000	1	2
	Roches Point	1020.4	+8	S	4	dr	60	97	5	5	-	-	10	10	220	1	6

PAST 24 HOURS

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 7th Hrs. (36)
1	London (Kew)	66	57	57	-	-	3.4
	Croydon	73	51	49	-	0.1	7.3
	S. Farnborough	73	53	40	Tr	Tr	5.9
	Boscombe Down	72	54	48	-	0.1	7.9
	Thorney Island	71	55	52	-	Tr	*
	Lympne	68	48	42	-	0.2	7.8
	Manston	60	51	49	0.1	0.3	0.0
2	Shoeburyness	60	56	55	Tr	0.3	0.0
	Felixstowe	59	56	56	Tr	0.1	0.0
	Gorleston	58	53	50	-	11	*
	Mildenhall	67	52	44	-	0.1	3.2
	Cranwell	66	56	56	-	0.3	2.2
3	Birmingham	68	53	52	-	0.1	2.1
	Upper Heyford	71	57	56	Tr	0.2	*
4	Ross-on-Wye	70	56	51	Tr	-	2.9
5	Hartland Point	73	56	54	-	-	2.4
	Bristol	72	54	45	-	Tr	5.2
	Portland Bill	64	56	*	-	-	*
	Plymouth	69	57	57	-	Tr	[illegible]
	The Lizard	63	57		1	-	1.6
	Scilly (St. Mary's)	66	58	*	0.1	-	4.0
	Guernsey						
6	Pembroke	64	58	56	-	1	0.0
7	Holyhead (Valley)	72	58	57	-	0.6	*
	Chester (Sealand)	64	55	51	Tr	0.1	0.1
8	Manchester	70	55	54	-	-	*
10	Spurn Head	57	54	*	-	-	0.0
	Catterick	61	55	54	Tr	1	0.0
	Tynemouth	58	53	52	-	2	*
11	St. Abbs Head	57	52	*	Tr	0.2	*
	Leuchars	54	53	53	-	1	0.0
12	Renfrew (Abbots I.)	57	54	52	Tr	6	0.0
	Eskdalemuir	64	52	49	-	1.0	0.1
	Point of Ayre	65	57	*	-	0.5	0.5
13A	Tiree	60	56	*	0.5	2	0.2
13B	Stornoway	60	49	*	-	3	6.4
15	Dalwhinnie	58	46	38	Tr	0.5	2.4
	Aberdeen	57	52	52	Tr	0.1	3.2
	Wick	56		48	Tr		*
16	Sumburgh	57	47	33	-	-	5.2
17	Blacksod Point	65	57	*	0.1	3	*
18	Malin Head	63	56	*	2	0.1	0.1
	Aldergrove	64	57	50	0.5	0.5	0.3
19	Birr Castle	67	58	57	0.1	1	1.2
20	Valentia Obsy.	64	53	49	3	1	0.0
	Roches Point	63	59	*	1	8	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	oFFbf	bfcbmof	offF	66	57	57	-	-	3.4	*	*	3
Croydon	217	fgbmzbomzbcz	bcmz Fo	Febof	73	51	49	-	0.1	7.3	*	*	3
Greenwich (Royal Observatory)	149	Fef	ff	fefe	63	55	55	-	0.3	0.0	96	99	2
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	65	55	55	—			93	95	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	o	o	*	63	54	56	-	-	*	*	98	*
Kensington	80	ombcc	cf	*	66	55	52	-	-		97	98	*
Hampstead Observatory	460	ofbc	of	.of	62	55	54	-	-		*	99	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 8th.

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0.8	9-11h. 7th.	0.1	0-7h. 8th.

FOREIGN OBSERVATIONS.

Stations	Evening of 7th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 8th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1022.6	ENE	2	bc	54	1022.6	E	6	bc	52	*	*	*	*
Lisbon (18h and 07h)	1022.5	NNW	2	bc	68	1023.7	N	2	bc	63	73	57	-	-
¶Madrid (18h and 07h)						910.5	-	0	z	55		55		-
Cairo (Heliopolis) (18h and 06h)	1015.7	N	3	b	75	1015.7	N	2	b	68	85	64	-	-
Toronto (13h and 01h)	1011.2	SE	3	f	55									
Washington (13h and 01h)	1016.3	SW	1	z	71	1013.5	SSW	4	bc	83	94	79	*	*

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22—Code for surface visibility.

Objects not visible at
- 0 Dense fog 55 yards.
- 1 Thick fog 220 ,,
- 2 Fog 550 ,,
- 3 Moderate fog 1,100 ,,
- 4 Mist or haze 1¼ miles.
- 5 Poor visibility 2½ ,,
- 6 Moderate ,, 6¼ ,,
- 7 Good ,, 12½ ,,
- 8 Very good ,, 31 ,,
- 9 Excellent ,, beyond 31m.

COLUMN 30—Code for State of Sea.

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Thursday 9th October 1941.

No. 29176

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1026·0	-6	W'S	2	zo	63	85	6	-	3	6	0	9+	-
	Croydon	1026·0	-4	WSW	1	c	65	75	6	-	3	5	0	9+	-
	S. Farnborough	1026·1	-8	WSW	2	c	63	75	7	-	7	8	0	9+	-
	Boscombe Down	1026·6	-6	SW	3	c	63	75	7	1	1	-	1	10	2000
	Thorney Island	1026·6	-6	W	1	c	65	85	7	1	7	1	Tr	9+	1500
	Lympne	1025·9	-4	NW	2	m/r	63	97	4	5	7	-	7-8	9	100
	Manston	1026·2	-2	W	1	zo	62	97	5	5	3	-	4-6	9+	300
2	Shoeburyness	1026·0	-4	-	0	m	63	85	4	5	3	-	7-8	9	500
	Felixstowe	1025·3	-4	W	1	zo	61	92	5	5	-	-	10	10	400
	Gorleston	1025·6	-6	SW'S	1	o/f	59	92	5	5	-	-	10	10	600
	Mildenhall	1025·5	-10	SW	2	zo	64	85	6	5	3	6	2-3	9	1200
	Cranwell	1024·5	-6	W	4	zo	65	75	6	1	3	9	2-3	7-8	1500
3	Birmingham	1025·3	-2	WSW	2	c	61	97	7	6	7	-	Tr	10	1500
	Upper Heyford	1025·5	-6	SW	3	zo	63	75	6	5	7	-	7-8	9+	1500
4	Ross-on-Wye	1025·1	-6	WSW	3	c	64	75	7	1	7	-	1	9+	2500
5	Hartland Point	1025·0	0	SW	2	c	62	85	8	1	7	-	1	9	2500
	Bristol	1027·1	-4	S	2	c	63	75	8	1	7	-	Tr	9+	2500
	Portland Bill	1026·3	+4	SW	3	o	59	92	7	5	-	-	10	10	1500
	Plymouth	1026·0	-2	S	4	cjp	60	97	6	5	3	-	9	9+	400
	The Lizard	1025·9	0	S	4	c	61	92	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	1024·8	-2	SSW	4	c	(62)	92	7	5	-	-	10	10	900
	Guernsey														
6	Pembroke	1024·6	-4	S	4	roro	59	97	6	8	-	-	10	10	1500
7	Holyhead (Valley)	1022·8	-4	S'E	5	c	60	97	6	5	-	-	10	10	400
	Chester (Sealand)	1023·7	-8	SSE	2	zo	64	75	6	5	7	-	4-6	9+	2000
8	Manchester	1024·7	-2	S	3	c	62	85	6	5	7	-	1	10	3500
10	Spurn Head	1024·4	-2	SW	3	cjf	65	85	5	7	-	-	10	10	2500
	Catterick	1023·4	-10	W	1	zo	66	75	6	5	9	-	4-6	7-8	1200
	Tynemouth	1023·4	-6	SW	3	zo	62	92	5	5	-	-	7-8	7-8	2000
11	St. Abbs Head	1021·2	-10	W	3	zo	64	75	8	5	7	-	2-3	10	2500
	Leuchars	1021·2	-14	WSW	2	zo	62	85	6	2	-	-	7-8	7-8	3100
12	Renfrew (Abbots I.)	1021·5	-10	SSW	2	c/r	61	85	6	5	2	-	9+	10	1100
	Eskdalemuir	1022·1	-4	SSW	3	ido	58	97	5	-	2	-	10	10	220
	Point of Ayre	1021·9	-6	S'W	3	c	61	97	7	6	2	-	7-8	9+	1000
13A	Tiree	1021·0	0	SSW	2	c	61	85	7	5	3	-	4-6	7-8	2500
13B	Stornoway	1021·4	+10	SSE	3	c	58	92	8	5	7	5	4-6	9	2000
15	Dalwhinnie	1021·1	-4	S	3	o	58	85	7	7	-	-	10	10	1500
	Aberdeen	1020·6	-10	S	2	m	60	85	4	5	7	-	4-6	10	4900
	Wick	1020·6	-6	SE	2	zo	56	97	6	5	7	-	7-8	9+	5700
16	Sumburgh	1023·2	-6	E	3	c	53	97	7	5	-	-	10	10	700
	Blacksod Point	1018·6	-6	SE	1	c	62	75	8	5	-	-	9	10	1500
18	Malin Head	1019·4	-8	-	0	c	63	85	8	8	-	-	7-8	7-8	4000
	Aldergrove	1020·6	-6	SSW	2	ido	62	92	7	5	-	-	9	10	1000
19	Birr Castle	1019·5	-6	SSW	1	c	66	85	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1017·8	-2	S'W	4	ido	62	97	7	5	-	-	10	10	800
	Roches Point	1020·8	-2	S'W	4	o/d	61	97	7	5	-	-	10	10	450

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1025·1	-4	SW	2	zo	60	85	6	5	3	-	7-8	9	2500	1	*
Croydon	1025·1	-4	SSW	1	zo	59	92	6	5	3	-	4-6	9	4000	1	*
S. Farnborough	1025·1	-4	SW'W	3	zo	59	85	6	5	5	1	1	9	2000	0	*
Boscombe Down	1026·0	+2	SW'S	3	c	58	92	7	-	7	-	0	7-8	-	0	*
Thorney Island	1025·9	+2	WSW	2	zo	59	92	6	5	3	-	4-6	9	2500	0	*
Lympne	1025·0	-2	SW	1	zo	61	92	5	-	7	-	0	9+	-	0	§ *
Manston	1025·0	-6	W	2	zo	62	85	6	-	7	-	0	9+	-	0	*
Shoeburyness	1024·8	-2	WSW	1	zo	62	85	5	5	3	-	4-6	10	3500	0	*
Felixstowe	1024·1	-6	SW'S	1	m	60	97	4	5	-	-	10	10	1000		
Gorleston	1024·3	-4	-	0	m	60	92	4	5	-	-	10	10	700	1	1
Mildenhall	1024·3	-10	SW'S	2	zo	61	97	6	5	-	-	10	10	2500	0	*
Cranwell	1023·4	-2	W	2	zo	59	85	5	5	7	-	4-6	10	2000	0	*
Birmingham	1024·1	-2	SSW	2	c	61	85	7	5	7	-	4-6	10	1500	1	*
Upper Heyford	1024·7	0	SSW	3	zo	61	85	5	5	7	-	7-8	9+	2800	1	*
Ross-on-Wye	1024·0	-6	SSW	2	c	61	85	7	5	7	-	1	9+	2500	1	*
Hartland Point	1023·8	-4	SW	3	c	61	92	8	5	4	6	7-8	9	2000	0	4
Bristol	1024·9	-4	SSW	2	c	61	85	7	5	7	7	1	9+	2200	0	*
Portland Bill	1025·6	-10	SW	3	c	59	92	8	5	-	-	10	10	2500	1	3
Plymouth	1025·1	-4	SW	2	dod.	59	97	4	5	-	-	10	10	100	1	2
The Lizard	1025·1	-2	S	4	c	59	97	7	8	2	-	7-8	9+	800	0	4
Scilly (St. Mary's)	1023·6	-6	SSW	4	cjp	61	97	7	5	2	-	7-8	10	600	1	4
Guernsey																
Pembroke	1023·0	-8	S'W	5	F	59	97	1	-	-	-	10	10	<150	1	3
Holyhead (Valley)	1021·6	-10	S'W	4	zo	60	97	6	5	-	-	10	10	300	1	4
Chester (Sealand)	1022·6	-2	SSE	1	zo	62	92	5	5	7	-	4-6	9+	2000	0	*
Manchester	1023·3	-4	SSE	1	c	60	92	6	5	7	-	9	10	4500	1	*
Spurn Head	1022·8	-2	WSW	3	bc	62	85	6	2	5	·	4-6	4-6	2000	0	
Catterick	1022·1	+6	SSW	1	zo	61	85	5	5	9	-	7-8	10	2500	1	*
Tynemouth	1022·2	-8	SW	3	zo	63	85	6	8	-	-	9+	9+	2600	1	3
St. Abbs Head	1020·3	0	SW	2	c	60	85	8	5	7	-	7-8	10	2500	0	2
Leuchars	1020·2	-6	NW	1	zo	60	92	6	5	7	-	9+	10	2100	1	*
Renfrew (Abbots I.)	1020·2	-2	-	0	df	59	92	3	5	-	-	10	10	800	1	*
Eskdalemuir	1020·6	-6	SSW	3	ido	57	97	2	-	-	-	10	10	<150	1	*
Point of Ayre	1020·4	-6	WSW	3	c	62	97	8	6	2	-	4-6	10	2000	1	2
Tiree	1020·3	-4	SSW	1	c	57	97	7	5	-	-	9+	9+	1500	0	2
Stornoway	1020·7	0	-	0	c	55	97	8	5	7	-	7-8	9+	2000	1	1
Dalwhinnie	1020·2	-4	-	0	c	54	85	7	8	2	-	2-3	10	1500	1	*
Aberdeen	1019·7	-4	NNE	1	m	60	92	4	5	7	-	4-6	10	700	1	2
Wick	1020·7	+4	NW	1	zo	55	97	5	5	7	-	9+	10	4000	1	*
Sumburgh	1021·8	0	E	3	rr	52	97	6	6	2	-	9+	10	500	1	2
Blacksod Point	1017·5	-6	E	1	c	60	92	8	-	7	-	0	9	-	0	0
Malin Head	1018·9	-4	SSW	1	c	59	92	8	4	5	-	2-3	7-8	5700	0	2
Aldergrove	1019·5	-6	-	0	roro	59	97	4	6	2	-	9	10	400	1	*
Birr Castle	1018·3	-6	SSW	1	c	63	92	8	5	7	-	7-8	9	2500	1	*
Valentia Obsy. †	1019·2	+2	S'E	4	c/r	60	97	7	5	6	-	7-8	9+	800	1	3
Roches Point	1020·0	-4	S	4	ir	60	97	7	6	2	-	7-8	9+	800	1	5

PAST 24 HOURS.

Stations	Weather 7h.–13h. 8th (37)	Weather 13h.–18h. 8th (38)	Weather 18h. 8th to 1h. 9th (39)	Weather 1h.–7h. 9th (40)
London (Kew)	oFfcmo	ccmo	cm	cm
Croydon	ofczo	ccmo	cmbmwc	omcmc
S. Farnborough	ofecmo	cbccmo	cmwo	omwcf
Boscombe Down	ofemcmo	cbcc	c	bircmo
Thorney Island	Fwcmo	cmo	cm	cmc
Lympne	FFcmro	cm⊕mo	oFfmo	cmbm
Manston	omcmo	cmo	cirmofe	oFemm
Shoeburyness	oFecm	cmcmo	cmbm	bmidcm
Felixstowe	oidofomo	cmoomo	oidfcmm	cmofcf
Gorleston	oFezo	acbcczocmo	em, cm	czopro
Mildenhall	oFedocmo	cmo	cm	m, oicm
Cranwell	dFbczo	bcmoc	cm	cmrcm
Birmingham	cpro	c	co	rro
Upper Heyford	cmocidmc	cmo	cbccmof	ofogpsm
Ross-on-Wye	czoc	c	c	coRo
Hartland Point	c	c	idirc	rrirc
Bristol	c	c	c	crocc
Portland Bill	offo	c	o	c
Plymouth	odofcjf	oddf	ddmcm	cm
The Lizard	c	cbcc	c	cbcw
Scilly (St. Mary's)	c	cidoc	cdrc	c
Guernsey				
Pembroke	cmororo	oFF	oFFrr	oFFrr
Holyhead (Valley)	cdmocdmo	comoo	cmdddf	omdddf
Chester (Sealand)	cmo	czoiromo	ccmiro	orororm
Manchester	iromo	cmo	cmiro	rororrdd
Spurn Head	cf	cm	ocm	omid
Catterick	ofirocmo	ccirozomo	cirom	cmc
Tynemouth	omcff	cmo	cmoir	rr
St. Abbs Head	cmopro	c	c	comd
Leuchars	ofomcmo	cmo	cmm	cmidm
Renfrew (Abbots I.)	mfiromo	cmoirff	cfidofd	Ffidm
Eskdalemuir	odod.	odo.dof	prrddm	prrR
Point of Ayre	rrroroc	c	rorc	c
Tiree	bcc	c	c	cff
Stornoway	crorobcc	c	c	cm
Dalwhinnie	o	co		c
Aberdeen	offrorocz	omocz	cz	czw
Wick	ororocmo	cmoo	cmof	cbmddm
Sumburgh	c	ccroro rr	ercr	rorocbc
Blacksod Point	c	c	o	c
Malin Head	c	c	cFsfgfb	cddc
Aldergrove	ororodomo	idoccrr	ddrordf	cmodm
Birr Castle	c	c	*	cir
Valentia Obsy. †	circido	cidoiroc	cicir	crrir
Roches Point	ddo	ir	ddrr	drdr

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_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

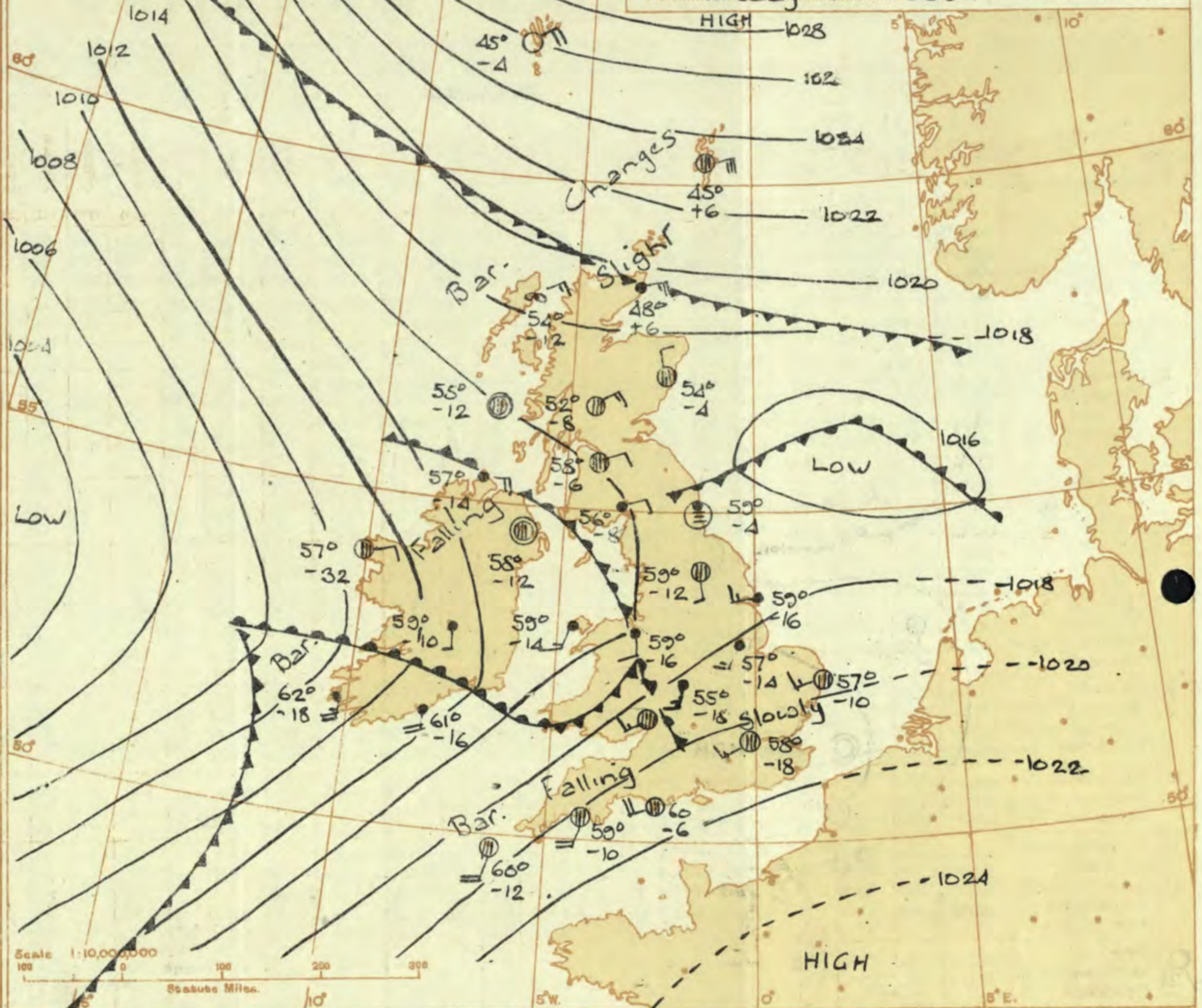
COLUMN 29.—STATE OF GROUND.

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.

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.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 9th October. 1941



Abridged observations of additional stations in the
AVIATION WEATHER CODE

III	13h. G.M.T. 8th October $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 9th October $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	5-	05548	08268	--	44409	00049	6-	51528	08358	6-	51638	07658
115	--	44209	20189	52	09834	20247	--	48109	20249	--	44209	08449
203	5-	02838	16328	5-	02838	00028	5-	05845	08325	84	01853	08325
206	87	02764	22127	83	02764	08128	52	09555	00028	5-	51428	08168
210	07	05690	24167	52	05667	00028	52	05636	00028	5-	54538	04358
220	83	02846	15217	51	02763	12117				50	00790	00003
230	52	51647	14158	52	05637	00058	53	05643	00027	53	02854	00026
245	79	05655	15148	5-	62638	22288	53	05644	00068	54	05607	04267
260	5-	02858	20148	52	05655	00028	5-	08448	00028	5-	05538	06258
278	5-	22508	18268	52	62616	10268	5-	05647	17367	5-	43308	12148
279	5-	21738	18358	6-	21528	18358	5-	52528	18368	--	46209	18259
285	5-	03748	24423	5-	03638	26428				5-	05638	32468
288	57	05664	18227	57	05665	17268				57	05655	19126
575	23	02844	12327	5-	54528	14258	5-	05638	00058	5-	03738	12228
301	02	61668	18368	52	47355	15268	5-	57348	17258	02	57348	00058
321	57	05534	18128	57	05664	22226	57	08465	19228	5-	67338	18248
299	--	44309	20249	5-	08448	22128	5-	08448	22228			
292	87	05544	19167	02	22558	15168	52	45336	17168	57	05545	00048
310	--	02648	26228	--	57109	26229				--	67209	12249
614	23	25654	20287	57	08365	20167	03	43407	22247	5-	64348	16258
333	5-	02728	16468	5-	02738	16328	5-	64528	18368	5-	64628	18368
334	--	02645	23626	--	03647	26308				--	64537	12168
340	07	22790	17267	5-	02658	16228	5-	62648	16228	67	62634	18268
136	53	05625	20157	57	22554	18268	07	05590	20227	5-	05518	20368
336										52	62763	20368
350	73	05655	20227	57	05656	20228	5-	08438	20238	62	64634	18368
368	57	02753	16127	57	02853	16116	5-	62538	16168	5-	02657	22127
379	53	02743	20345	07	05690	20227						
390				57	05575	22128	5-	43328	23348	5-	62428	20268
382	57	02752	22227	07	02890	00027	5-	05638	16228	52	64637	17368
438	57	02644	25417							6-	03737	24427
430				5-	05647	20328	5-	05648	21228	53	05647	20257
409	54	02734	18325	57	02737	18328	57	61646	15368	57	02731	17427

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

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 9th October. 1941.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate or fresh S.W. wind; cloudy, rain at times; mild
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Fresh or strong S.W. wind; cloudy, rain at times; mild.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13A. W. Scotland	Wind variable, light, freshening from S.-S.W. later; cloudy; rain at times; mild.
13B. N.W. Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands ♠	Strong E. wind, reaching gale locally; cloudy, some rain; cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind mainly between South and West, fresh or strong at times; cloudy; some rain; mild

GENERAL INFERENCE.

A complex depression is extending eastward across the British Isles, and there will be rain at times generally.

FURTHER OUTLOOK.

A spell of unsettled weather generally.

♠ Gale Warning issued 2255h on 8/10 for district 16.

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.

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 9th October

1941.

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— ○ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ○ Rain falling. ✱ Snow. ✱ Sleet. △ Hail. ≡ Fog. ≡ Mist. (ξ) Thunder. ξ Thunderstorm. ∞ Slight haze.

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T.—America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 9th October 1941.

No. 29176

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1024·1	-10	SW	2	Fog	55	97	6	5	-	-	10	10	1000
	S. Farnborough	226	1023·9	-10	WSW	3	Fog	57	92	5	5	-	-	10	10	300
	Boscombe Down	417	1024·0	-16	SSW	2	Fog	57	97	7	5	-	-	10	10	700
	Thorney Island	10	1024·5	-10	WSW	2	Fog	60	97	6	5	-	-	10	10	1100
	Lympne ...	346	1024·2	-8	W	1	Fog	56	97	5	-	2	-	10	10	-
	Manston ...	154	1023·9	-10	WSW	3	Fog	55	97	1	-	-	-	10	10	<150
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1022·9	-8	SW	3	Fog	58	97	5	-	3	-	0	3+	-
	Gorleston ...	5	1022·6	-12	SW	2	Fog	59	92	6	5	-	-	3+	3+	1500
	Mildenhall ...	19	1022·7	-12	SW'W	3	Fog	59	97	5	5	7	-	2-3	3+	4000
	Cranwell ...	240	1021·1	-16	WSW	4	Fog	59	92	5	5	7	-	3	3+	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1023·2	-10	SW	3	+-	56	97	3	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1021·0	-20	SW	4	Rain	60	97	6	6	2	-	3	10	1500
	Bristol ...	209	1022·9	-18	SE	4	Fog	59	92	7	5	3	-	1	3+	1200
	Portland Bill ...	32	1023·7	-14	WSW	4	Fog	58	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1023·2	-10	SSW	2	Fog	58	97	6	5	-	-	10	10	2000
	The Lizard ...	240	1023·1	-12	SSW	4	Fog	59	97	7	8	2	-	7-8	3+	1500
	Scilly (St. Mary's)	163	1022·1	-10	SW'S	4	Fog	60	97	7	5	3	2	4-6	3	1500
	Guernsey ...	175														
6	Pembroke ...	142	1021·1	-8	SSW	5	Rain	59	97	1	-	-	-	10	10	<150
7	Holyhead (Valley)	26	1019·3	-10	S	4	Rain	59	97	4	5	-	-	10	10	<150
	Chester (Sealand)	16	1020·0	-12	SSE	3	Drizzle	60	92	6	5	-	-	10	10	2000
8	Manchester ...	236	1020·8	-14	SE	3	Drizzle	59	92	5	5	7	-	3	10	2500
10	Spurn Head ...	29	1020·0	-12	WSW	2	Fog	60	92	6	5	7	-	4-6	3+	2500
	Catterick ...	175	1018·7	-14	SW	2	Rain	60	92	4	5	7	-	7-8	10	1500
	Tynemouth ...	108	1019·8	-12	SW	2	Rain	59	97	6	-	2	-	10	10	1500
11	St. Abbs Head	280	1018·1	-12	W	1	Fog	57	92	8	5	2	-	3	10	2500
	Leuchars ...	36	1017·9	-10	-	0	Rain	57	97	4	5	-	-	10	10	2200
12	Renfrew (Abbotsl.)	19	1018·2	-10	-	0	Rain	58	97	1	-	-	-	10	10	<150
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1018·1	-12	W'S	3	Fog	60	97	8	8	4	6	2-3	3+	1500
13A	Tiree	22	1019·2	-4	NNW	1*	Fog*	56	97	7	5	*	*	7-8	7-8	2500
13B	Stornoway ...	80	1021·1	0	-	0	Fog	52	97	6	5	7	-	7-8	3+	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1019·6	-2	N	2	Rain	58	97	3	5	-	-	10	10	500
16	Sumburgh ...	30	1022·0	+2	ENE	6	Rain	45	85	7	5	2	-	3	10	1200
17	Blacksod Point	18	1016·8	-8	-	0	Fog	58	97	7	-	2	-	0	10	-
18	Malin Head ...	84	1017·1	-8	E	2	Drizzle	57	97	3	-	-	-	10	10	<150
	Aldergrove ...	268	1017·8	-8	S'W	2	Rain	59	97	6	5	2	-	3+	10	300
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1016·1	-22	SE'E	2	Fog	60	97	7	5	-	-	10	10	1500
	Roches Point	22	1017·9	-18	S	3	Rain	57	97	6	6	2	-	7-8	10	800

OBSERVATIONS at 7 hr. G.M.T. 9th October

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon ...	1020·2	-12	SW	2	Fog	59	92	6	5	-	-	10	10	2500	1	*
S. Farnborough	1020·6	-18	SW	3	Fog	58	97	7	6	3	-	3	3+	400	1	*
Boscombe Down	1020·6	-14	SW	3	Drizzle	59	92	6	5	7	-	7-8	3+	400	1	*
Thorney Island	1020·8	-14	SSW	4	Drizzle	58	97	6	5	7	-	3+	10	300	1	*
Lympne ...	1021·4	-10	WSW	2	Fog	60	92	7	5	3	-	3	3+	1500	0	*
Manston ...	1021·8	-10	W	1	Fog	57	97	7	6	-	-	10	10	300	0	5
	1021·5	-10	SW	2	Rain	55	97	6	5	-	-	10	10	400	0	*
Shoeburyness ...	1020·6	-14	SW'S	2	Drizzle	58	92	5	5	7	-	7-8	9	1200	1	*
Felixstowe ...	1019·7	-2	SW	3	Drizzle	56	97	5	6	-	-	10	10	400	1	2
Gorleston ...	1019·6	-10	SW'W	3	Drizzle	57	92	6	6	-	-	10	10	1700	1	2
Mildenhall ...	1019·4	-18	SW'S	2	Drizzle	57	97	6	5	2	-	7-8	10	500	0	*
Cranwell ...	1017·8	-14	SW'S	3	Drizzle	57	97	4	5	-	-	10	10	1000	1	*
Birmingham ...	1017·5	-18	SSW	3	Drizzle	56	92	5	6	-	-	10	10	800	1	*
Upper Heyford	1019·3	-20	SSW	3	Drizzle	58	97	6	6	2	-	3	10	200	1	*
Ross-on-Wye	1018·2	-16	SW	3	Fog	60	97	6	5	-	-	10	10	1500	1	*
Hartland Point	1018·3	-10	SSW	5	Fog	61	85	8	-	7	-	0	3+	-	1	4
Bristol ...	1019·8	-12	SSW	3	Fog	61	92	7	5	7	-	2-3	10	1800	1	*
Portland Bill ...	1021·6	-6	SW	4	Fog	60	92	8	5	-	-	10	10	4000	1	4
Plymouth ...	1020·3	-10	SSW	4	Fog	59	97	6	5	-	-	10	10	200	1	3
The Lizard ...	1020·7	-10	S	5	Rain	58	97	7	4	-	-	4-6	4-6	1500	1	4
Scilly (St. Mary's)	1019·1	-12	SW'S	4	Fog	60	92	7	5	4	-	4-6	3+	1000	1	4
Pembroke ...	1017·4	-16	SSW	5	Rain	59	97	1	-	-	-	10	10	<150	1	4
Holyhead (Valley)	1015·2	-14	SSW	3	Drizzle	59	97	5	5	-	-	10	10	300	1	4
Chester (Sealand)	1016·1	-16	SSE	2	Rain	59	97	4	5	-	-	10	10	700	1	*
Manchester ...	1016·9	-18	SE	3	Drizzle	58	92	5	5	-	-	4-6	10	1500	1	*
Spurn Head ...	1017·4	-16	WSW	3	Drizzle	59	92	6	6	-	-	10	10	2500	0	2
Catterick ...	1016·6	-12	SSE	1	Fog	59	85	7	5	3	6	2-3	9	1800	1	*
Tynemouth ...	1017·3	-4	-	0	Rain	59	97	3	-	2	-	10	10	1200	1	2
St. Abbs Head	1016·8	-6	N	1	Rain	53	97	1	-	-	-	10	10	<150	1	2
Leuchars ...	1016·7	-2	ENE	2	Fog	55	97	6	5	-	-	10	10	2500	1	*
	1016·2	-6	ENE	2	Rain	58	97	5	5	-	-	10	10	800	1	*
	1015·4	-8	ENE	2	Rain	56	97	4	-	2	-	10	10	<150	1	*
Point of Ayre ...	1015·0	-12	WS	2	Fog	57	97	8	8	1	8	2-3	9	2000	1	2
Tiree	1016·2	-12	-	0	Fog	53	97	1	-	-	-	10	10	<150	0	*
Stornoway ...	1018·0	-12	NE	3	Rain	54	97	6	5	7	-	7-8	3+	2000	1	1
Dalwhinnie ...	1017·5	-8	NE	3	Fog	52	92	5	8	-	-	3+	3+	1500	1	*
Aberdeen ...	1017·4	-4	NNW	2	Fog	54	92	6	5	-	-	10	10	600	1	2
Wick ...	1019·0	+6	ENE	5	Rain	48	97	6	5	-	-	10	10	600	1	*
Sumburgh ...	1022·5	+6	ENE	6	Rain	45	85	8	8	3	3	4-6	7-8	2500	1	2
Blacksod Point	1010·6	-32	ENE	2	Fog	57	97	5	9	-	1	9	9	1500	0	2
Malin Head ...	1014·4	-14	E	4	Rain	57	97	5	3	-	-	3+	3+	450	0	3
Aldergrove ...	1015·0	-12	-	0	Rain	58	97	4	5	2	-	3+	10	800	1	*
Birr Castle ...	1013·0	-10	S	1	Fog	59	97	7	5	-	-	10	10	2500	1	*
Valentia Obsy.	1011·3	-18	S	5	Rain	62	97	6	6	-	-	10	10	450	1	4
Roches Point	1013·6	-16	S	4	Rain	61	97	5	5	-	-	10	10	450	1	5

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine ...8½ Hrs. (36)
London (Kew)	64	56	50	-	-	1·7
Croydon ...	66	53	50	-	Tr	0·7
S. Farnborough	64	54	46	Tr	Tr	0·6
Boscombe Down	64	56	52	-	0·1	0·4
Thorney Island	66	58	57	-	-	*
Lympne ...	67	54	52	0·1	-	1·0
Manston ...	67	54	50	Tr	Tr	0·8
Shoeburyness ...	65	55	49	-	Tr	0·0
Felixstowe ...	62	55	54	Tr	0·3	0·0
Gorleston ...	61	57	55	-	0·1	*
Mildenhall ...	66	56	52	Tr	Tr	0·2
Cranwell ...	66	57	56	-	4	1·6
Birmingham ...	62	57	55	Tr	5	0·4
Upper Heyford	66	55	53	-	2	*
Ross-on-Wye	64	58	55	-	8	0·1
Hartland Point	65	60	59	-	6	1·3
Bristol ...	66	52	53	-	2	1·0
Portland Bill ...	62	56	*	-	-	*
Plymouth ...	62	58	53	0·2	Tr	0·0
The Lizard ...	62	58	*	-	-	0·0
Scilly (St. Mary's)	64	60	*	Tr	0·3	0·3
Guernsey ...						
Pembroke ...	60	58	*	3	6	0·0
Holyhead (Valley)	61	57	57	0·3	3	*
Chester (Sealand)	64	59	56	Tr	7	0·0
Manchester ...	63	58	57	Tr	5	*
Spurn Head ...	66	59	*	-	Tr	0·8
Catterick ...	63	58	53	Tr	0·6	0·8
Tynemouth ...	66	57		-	8	*
St. Abbs Head	65	52	*	Tr	1	*
Leuchars ...	64	55	55	-	0·2	0·1
Renfrew (Abbotsl.)	61	57	56	0·2	1	0·0
Eskdalemuir ...	60	54	54	3	11	0·3
Point of Ayre ...	63	57	*	1	0·1	0·0
Tiree	62	53	*	-	-	1·6
Stornoway ...	60	51	*	0·1	-	1·8
Dalwhinnie ...	59	48	41	Tr	-	0·0
Aberdeen ...	63	53	51	0·2	-	0·1
Wick ...	57	48	45	Tr	0·3	*
Sumburgh ...	53	45	39	2	5	0·0
Blacksod Point	63	56	*	-	0·2	*
Malin Head ...	65	55	*	-	2·5	2·8
Aldergrove ...	63	58	55	7	3	0·0
Birr Castle ...	66	54	51	-	0·1	0·1
Valentia Obsy.	62	57	56	2	6	0·2
Roches Point	63	57	*	2	14	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	ofbcm	ecm	cm	64	56	50	-	-	1·7	*	*	6
Croydon	217	ofc2	ecm	cmbmx	66	53	50	-	Tr	0·7	*	*	5
Greenwich (Royal Observatory)...	149	fecm	c	cbd	68	54	46	-	1	1·3	74	85	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	66	56	52		1		77	93	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*									*
Camden Square	110	o	c	*	66	56	52	-	0·5	*	*	95	*
Kensington	80	ombc	bc	*	67	56	48	-	1		79	97	*
Hampstead Observatory	450	ofbc	o	or	63	53	50	-	0·3		*	99	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 9th.

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	18-22h 8th	<0·1	0-5h. 9th.

FOREIGN OBSERVATIONS.

Stations	Evening of 8th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 9th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	1022·6	ENE	6	c	46	1019·3	E	4	d	46
Lisbon (18h and 07h)						1020·6	NNE	2	b	66
¶Madrid (18h and 07h)	998·6		0		66					
Cairo (Heliopolis) (18h and 06h)	1012·2	NW	3	o	73	1015·2	NW	1	b	68
Toronto (13h and 01h)	1009·4	W	5	o	55					
Washington (13h and 01h)	1012·2	NW	3	b	75	1015·6	NW	4	b	73

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
	63		-
77		-	
61	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 10th October, 1941.

No. 29,177.

SECRET

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1017·3	-20	SW	2	ir$_o$	62	85	7	5	7	-	7-8	10	1500
	Croydon	1018·1	-16	SW	3	c/r	65	75	7	5	2	-	7-8	10	4000
	S. Farnborough	1017·6	-18	SW	4	c	64	75	7	5	7	8	7-8	9+	2300
	Boscombe Down	1017·9	-22	SW^5	5	c	65	65	8	5	7	-	4-6	9+	5000
	Thorney Island	1018·5	-16	W	4	bc	67	75	8	1	7	6	2-3	4-6	4000
	Lympne	1018·7	-20	SW	2	c	64	85	8	5	7	-	2-3	10	3500
	Manston	1017·6	-18	SW'W	4	z$_o$	61	92	8	-	7	-	0	9+	-
2	Shoeburyness	1017·5	-18	SW'W	3	ir	62	92	6	5	7	-	4-6	10	1500
	Felixstowe	1016·4	-18	SW	4	r$_o$r$_o$	61	97	5	5	2	-	4-6	10	600
	Gorleston	1016·1	-24	SW'W	2	rr	60	92	6	6	-	-	10	10	900
	Mildenhall	1016·1	-16	WSW	3	r$_o$r$_o$	62	97	6	5	-	-	10	10	500
	Cranwell	1014·7	-18	W'S	2	dd	62	97	4	-	2	-	10	10	600
3	Birmingham	1015·0	-20	SW	3	ir$_o$	60	97	6	6	-	-	1/0	10	800
	Upper Heyford	1016·4	-22	SW	3	rr	59	97	6	6	2	-	2-3	10	200
4	Ross-on-Wye	1016·1	-14	SW	3	ir$_o$	60	97	7	6	2	-	9+	10	1500
5	Hartland Point	1015·6	-8	SW	5	ir$_o$	63	85	8	5	2	-	4-6	9+	2500
	Bristol	1017·2	-18	SSW	3	c	64	65	8	5	7	-	Tr	10	1500
	Portland Bill	1019·0	-12	WSW	4	c	60	92	7	3	7	-	7-8	10	2500
	Plymouth	1018·3	-16	SW	4	c	60	97	6	5	-	-	10	10	600
	The Lizard	1018·6	-10	SSW	5	c	62	92	7	8	6	-	7-8	7-8	1500
	Scilly (St. Mary's)	1016·9	-18	SW'S	4	c	61	92	7	5	7	-	7-8	10	800
	Guernsey	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Pembroke	1014·5	-16	SW^5	6	c	60	97	7	8	2	-	4-6	10	1500
7	Holyhead (Valley)	1012·0	-20	S'W	4	rr	60	97	5	5	-	-	10	10	100
	Chester (Sealand)	1013·5	-16	S'E	1	rr	63	97	5	5	-	-	10	10	800
8	Manchester	1013·9	-18	S'E	1	r$_o$r$_o$	62	97	5	-	2	-	10	10	700
10	Spurn Head	1014·1	-16	S'W	3	z$_o$	59	97	6	5	-	-	10	10	800
	Catterick	1014·2	-18	NE'N	2	z$_o$	61	92	6	5	-	-	9	10	800
	Tynemouth	1016·0	-8	N'E	2	o/r	53	97	3	5	-	-	10	10	1000
11	St. Abbs Head	1016·2	-6	NNE	3	z$_o$	52	97	5	5	-	-	10	10	200
	Leuchars	1016·7	-2	ENE	3	d$_o$d$_o$	52	97	6	5	-	-	10	10	500
12	Renfrew (Abbotsl.)	1014·7	-10	E'S	4	z$_o$	56	85	6	5	-	-	10	10	1100
	Eskdalemuir	1014·2	-12	NE	4	id$_o$	53	92	6	2	-	-	10	10	220
	Point of Ayre	1012·1	-20	SE'S	4	rr	52	92	5	-	2	-	10	10	300
13A	Tiree	1012·2	-20	E'S	3	c	58	85	8	5	-	-	9+	9+	2500
13B	Stornoway	1017·3	-8	E	6	c	53	92	8	5	4	-	7-8	9+	2000
15	Dalwhinnie	1016·7	-16	E	5	o	53	85	7	5	-	-	10	10	1500
	Aberdeen	1018·3	-8	ENE	4	c	50	75	7	5	2	-	7-8	10	1700
	Wick	1020·6	-6	E'N	4	c	48	65	8	5	7	-	7-8	9+	2500
16	Sumburgh	1022·5	-2	ENE	5	c	47	65	9	5	-	-	7-8	7-8	2500
17	Blacksod Point	1004·4	-28	S'W	5	rr	61	97	7	6	-	-	10	10	800
18	Malin Head	1005·1	-30	E	3	PR	58	92	5	3	-	-	9+	9+	450
	Aldergrove	1012·0	-14	SE'E	1	rr	58	97	5	5	2	-	7-8	10	700
19	Birr Castle	1008·6	-22	S	2	ir	64	92	7	6	2	-	7-8	10	1500
20	Valentia Obsy. †	1007·2	-22	SSW	6	ir	64	97	6	6	2	-	9+	10	800
	Roches Point	1010·7	-16	S	5	dr	61	97	5	5	-	-	10	10	450

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. ·mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. (20)	°Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1014·8	-12	SW	3	r$_o$r$_o$	60	92	6	6	2	-	7-8	10	1500	1	*
	Croydon	1015·0	-14	SSW	3	r$_o$r$_o$	59	92	6	5	2	-	7-8	10	2000	1	*
	S. Farnborough	1015·0	-12	SW	3	r$_o$r$_o$	59	85	7	5	7	-	4-6	10	4000	1	*
	Boscombe Down	1015·7	-12	SSW	4	c	58	92	8	5	7	-	7-8	10	2500	0	*
	Thorney Island	1016·1	-10	WSW	4	z$_o$	61	85	6	5	7	-	7-8	10	1800	0	*
	Lympne	1016·6	-14	WSW	3	ir$_o$	59	85	7	5	1	-	9	10	3500	1	§
	Manston	1015·3	-14	WSW	4	r$_o$r$_o$	59	92	6	5	2	-	9	10	1500	1	*
2	Shoeburyness	1015·1	-10	SW	3	rr	60	92	6	5	-	-	10	10	2500	1	*
	Felixstowe	1014·1	-16	SW'W	4	r$_o$r$_o$	60	97	5	5	2	-	9	10	700	1	3
	Gorleston	1013·4	-14	WSW	2	rr	60	92	6	6	-	-	10	10	800	1	3
	Mildenhall	1013·3	-14	SW'W	3	rr	60	97	6	6	-	-	10	10	200	1	*
	Cranwell	1011·7	-16	WSW	2	rr	59	97	4	6	2	-	9+	10	400	1	*
3	Birmingham	1012·3	-24	SSW	3	c/r	59	97	6	6	-	-	7-8	10	800	1	*
	Upper Heyford	1014·6	-20	SW	2	c/r	59	97	6	6	7	-	7-8	10	500	1	*
4	Ross-on-Wye	1012·9	-20	SW	3	c	61	92	7	6	1	-	9+	10	1500	1	*
5	Hartland Point	1012·6	-18	SW	4	c/r	61	92	7	5	2	-	7-8	10	1500	1	4
	Bristol	1013·9	-18	SW	4	c/r	61	85	7	5	7	-	7-8	10	2800	1	*
	Portland Bill	1016·0	-8	SW	5	c	60	92	7	5	-	-	10	10	2500	1	5
	Plymouth	1013·3	-18	SSW	4	s/r	60	97	6	5	-	-	10	10	400	0	3
	The Lizard	1013·5	-10	SSW	5	c	59	97	7	5	2	-	9	10	1000	0	4
	Scilly (St. Mary's)	1013·6	-16	SW	5	c	60	97	6	5	-	-	10	10	800	1	4
	Guernsey	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Pembroke	1010·6	-8	SW^5	7	d$_o$d$_o$	60	97	5	8	-	-	10	10	1500	1	5
7	Holyhead (Valley)	1007·7	-26	SSW	5	ir$_o$r$_o$	60	97	5	5	-	-	10	10	100	1	4
	Chester (Sealand)	1009·4	-22	ESE	2	r$_o$r$_o$	62	97	4	5	-	-	10	10	100	1	*
8	Manchester	1010·1	-24	SW^5	3	rr	61	97	5	9	-	-	4-6	10	300	1	*
10	Spurn Head	1011·8	-12	E'N	2	d$_o$	58	97	2	5	-	-	10	10	1300	1	2
	Catterick	1011·2	-30	NNE	2	r$_o$	55	97	2	1	-	-	10	10	150	1	*
	Tynemouth	1013·1	-16	E	3	m	54	97	4	5	-	-	10	10	1000	1	3
11	St. Abbs Head	1013·2	-12	NNE	3	o	51	92	6	5	2	-	9	10	400	1	2
	Leuchars	1013·6	-18	ENE	5	c/d	50	85	7	5	2	-	9+	10	1300	1	*
12	Renfrew (Abbotsl.)	1010·5	-26	E'N	4	rr	53	92	5	6	-	-	10	10	300	1	*
	Eskdalemuir	1010·0	-26	ENE	4	r$_o$r$_o$	53	97	5	-	2	-	10	10	150	1	*
	Point of Ayre	1006·3	-24	SE'S	3	rr	53	97	5	6	2	-	4-6	10	800	2	3
13A	Tiree	1006·8	-20	ESE	4	rr	54	92	7	-	2	-	10	10	1500	1	5
13B	Stornoway	1013·0	-18	E	7	c	50	85	8	5	7	-	7-8	10	1500	1	5
15	Dalwhinnie	1013·6	-16	NE	2	o	47	85	7	-	-	-	10	10	1500	1	*
	Aberdeen	1015·7	-20	ENE	4	c/r	47	85	7	5	2	-	4-6	10	1900	0	4
	Wick	1017·0	-22	E	6	c	48	65	8	5	-	-	9+	9+	1800	1	*
16	Sumburgh	1013·4	-14	E'N	6	c	47	75	9	7	-	-	7-8	7-8	2500	1	5
17	Blacksod Point	1001·7	-8	S	4	r$_o$r$_o$	61	97	6	6	-	-	10	10	800	2	3
18	Malin Head	1003·1	-28	ESE	3	rr	58	92	6	6	-	-	9+	9+	450	1	4
	Aldergrove	1004·8	-30	E	3	rr	58	97	6	-	2	-	10	10	700	1	*
19	Birr Castle	1005·0	-6	SSW	1	c/r	64	97	7	6	2	-	7-8	10	1500	1	*
20	Valentia Obsy. †	1006·3	-6	W^5	4	c/d	58	97	7	5	3	-	9+	9+	1500	1	4
	Roches Point	1007·3	-20	S'W	6	Dr	61	97	5	5	-	-	10	10	450	1	6

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—13h. 9th (37)	Weather. 13h.—18h. 9th (38)	Weather. 18h. 9th to 1h. 10th (39)	Weather. 1h.—7h. 10th (40)
1	London (Kew)	drd$_o$m$_o$ir$_o$	cirr$_o$r$_o$m$_o$	cir$_o$c	cr$_o$r$_o$c$_o$d$_o$
	Croydon	d$_o$r$_o$r$_o$c	cir$_o$r$_o$r$_o$	cr$_o$r$_o$c	cr$_o$r$_o$d$_o$d$_o$
	S. Farnborough	r$_o$R$_o$m$_o$c	cd$_o$r$_o$c	er$_o$r$_o$ir$_o$	r
	Boscombe Down	cddm$_o$c	cir$_o$	c$_o$r$_o$r$_o$	cr$_o$r$_o$d$_o$r$_o$
	Thorney Island	cir$_o$d$_o$bc	b$_o$c$_o$m$_o$	c$_o$m$_o$	ir$_o$d$_o$c$_o$m$_o$
	Lympne	c$_o$m$_o$r$_o$c	cir$_o$	cir$_o$m$_o$c	cir$_o$c$_o$d$_o$
	Manston	cir$_o$c$_o$m$_o$	ir$_o$r$_o$r$_o$m$_o$	r$_o$r$_o$r$_o$m$_o$c	cir$_o$r$_o$r$_o$m$_o$
2	Shoeburyness	cirm$_o$ir	cirr$_o$r$_o$m$_o$c	cr$_o$r$_o$m$_o$c	cir$_o$r$_o$r$_o$c
	Felixstowe	r$_o$r$_o$r$_o$o	or$_o$r$_o$m$_o$	or$_o$r$_o$irc$_o$m	cm$_o$r$_o$r$_o$
	Gorleston	or$_o$r$_o$r$_o$	or$_o$r$_o$	or$_o$r$_o$m$_o$z	c$_o$p$_o$r$_o$
	Mildenhall	cr$_o$r$_o$m$_o$	cr$_o$r$_o$r$_o$m$_o$	cr$_o$r$_o$i$_o$r$_o$m$_o$	cir$_o$c$_o$m$_o$c
	Cranwell	or$_o$r$_o$m$_o$d$_o$d	odd$_o$r$_o$r$_o$m$_o$	or$_o$r$_o$m$_o$i$_o$r$_o$m$_o$	or$_o$r$_o$m$_o$o
3	Birmingham	or$_o$R$_o$r	or$_o$m$_o$r$_o$	oc	c$_o$p$_o$r
	Upper Heyford	cr$_o$r$_o$r$_o$c$_o$m$_o$	cr$_o$m$_o$r$_o$r$_o$m$_o$c	cr$_o$r$_o$m$_o$	cr$_o$r$_o$d$_o$d$_o$m$_o$
4	Ross-on-Wye	cr$_o$r$_o$r$_o$	r$_o$c$_o$d$_o$	cir$_o$	r$_o$r$_o$
5	Hartland Point	cir$_o$	cir$_o$c	id$_o$r$_o$r$_o$	ir$_o$c$_o$p$_o$r
	Bristol	c	cir$_o$c	cr$_o$r$_o$m$_o$c	r$_o$m$_o$c$_o$d$_o$m$_o$
	Portland Bill	c	c	o	or$_o$r$_o$c
	Plymouth	cm$_o$j$_o$f$_o$f$_o$m	o$_o$m$_o$i$_o$r$_o$	oi$_o$r$_o$d$_o$i$_o$r$_o$m$_o$	od$_o$d$_o$c$_o$m$_o$
	The Lizard	bcc	c	op$_o$r$_o$d$_o$f$_o$	cbcc
	Scilly (St. Mary's)	c	c	coir	orc
	Guernsey	...	...	...	...
6	Pembroke	cm	cr$_o$r$_o$d$_o$d$_o$	q$_o$d$_o$m$_o$c$_o$q$_o$	bc
7	Holyhead (Valley)	d$_o$d$_o$r$_o$R$_o$m	pr$_o$r$_o$i$_o$r$_o$m$_o$h$_o$	m$_o$o$_o$i$_o$d$_o$o$_o$m$_o$	bbc
	Chester (Sealand)	omr$_o$r$_o$r$_o$f	cir$_o$r$_o$r$_o$R$_o$R$_o$m$_o$	r$_o$r$_o$i$_o$r$_o$c$_o$m$_o$	cir$_o$m$_o$bc
8	Manchester	d$_o$d$_o$r$_o$r$_o$	cr$_o$r$_o$r	rr$_o$m$_o$c	ir$_o$c$_o$m$_o$
10	Spurn Head	om$_o$r$_o$d	or$_o$m$_o$f$_o$	orr	om$_o$d
	Catterick	cc$_o$m$_o$f$_o$	f$_o$r$_o$R$_o$R$_o$f$_o$	RRoddf	odfrc
	Tynemouth	oir$_o$f$_o$	o$_o$f$_o$f$_o$om	orr	orr$_o$f$_o$
11	St. Abbs Head	f$_o$om$_o$i$_o$f	om$_o$f$_o$c	orr	om$_o$q$_o$r$_o$r
	Leuchars	cm$_o$c$_o$m$_o$d$_o$d$_o$d$_o$m$_o$c$_o$i$_o$d$_o$	c$_o$c$_o$R$_o$R$_o$m$_o$	RR$_o$r$_o$R$_o$R$_o$m$_o$	
12	Renfrew (Abbotsl.)	i$_o$r$_o$i$_o$d$_o$m$_o$	c$_o$m$_o$i$_o$d$_o$r$_o$r$_o$	m$_o$r$_o$r$_o$r$_o$	r$_o$r$_o$R$_o$b$_o$c$_o$
	Eskdalemuir	add$_o$d$_o$d$_o$	i$_o$d$_o$r$_o$r$_o$	c$_o$r$_o$c$_o$r$_o$r	c$_o$r$_o$r$_o$R$_o$c$_o$
	Point of Ayre	orr	RR	ir$_o$r$_o$c	ir$_o$b$_o$c$_o$b
13A	Tiree	c	orr	oRR	rr$_o$c$_o$b$_o$c$_o$
13B	Stornoway	c	c	crr	r
15	Dalwhinnie	c	o		orr
	Aberdeen	o$_o$z$_o$r$_o$c$_o$	c	c	c$_o$r$_o$r$_o$r$_o$
	Wick	cm$_o$d$_o$m$_o$c	c	c	c$_o$r$_o$r$_o$r$_o$m$_o$
16	Sumburgh	bcc	c	c$_o$c$_o$⊕	bcd
17	Blacksod Point	rr	rr	bc$_o$q$_o$	bc$_o$q$_o$
18	Malin Head	cPRc	crr$_o$c	crr$_o$i$_o$r$_o$R$_o$r$_o$	c$_o$r$_o$c
	Aldergrove	cm$_o$r$_o$r$_o$r$_o$m$_o$	r$_o$r$_o$R$_o$R$_o$m$_o$	dr$_o$d$_o$d$_o$m$_o$	air$_o$c$_o$i$_o$r$_o$c$_o$b$_o$b
19	Birr Castle	cir	cir	*	bbc
20	Valentia Obsy. †	cir$_o$R$_o$i$_o$r$_o$m$_o$	cir$_o$d$_o$r$_o$c	c$_o$b$_o$c$_o$b	bc$_o$b$_o$b$_o$c
	Roches Point	d$_o$r$_o$d$_o$r	D$_o$r$_o$D$_o$r	b	bc

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-8" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

† Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

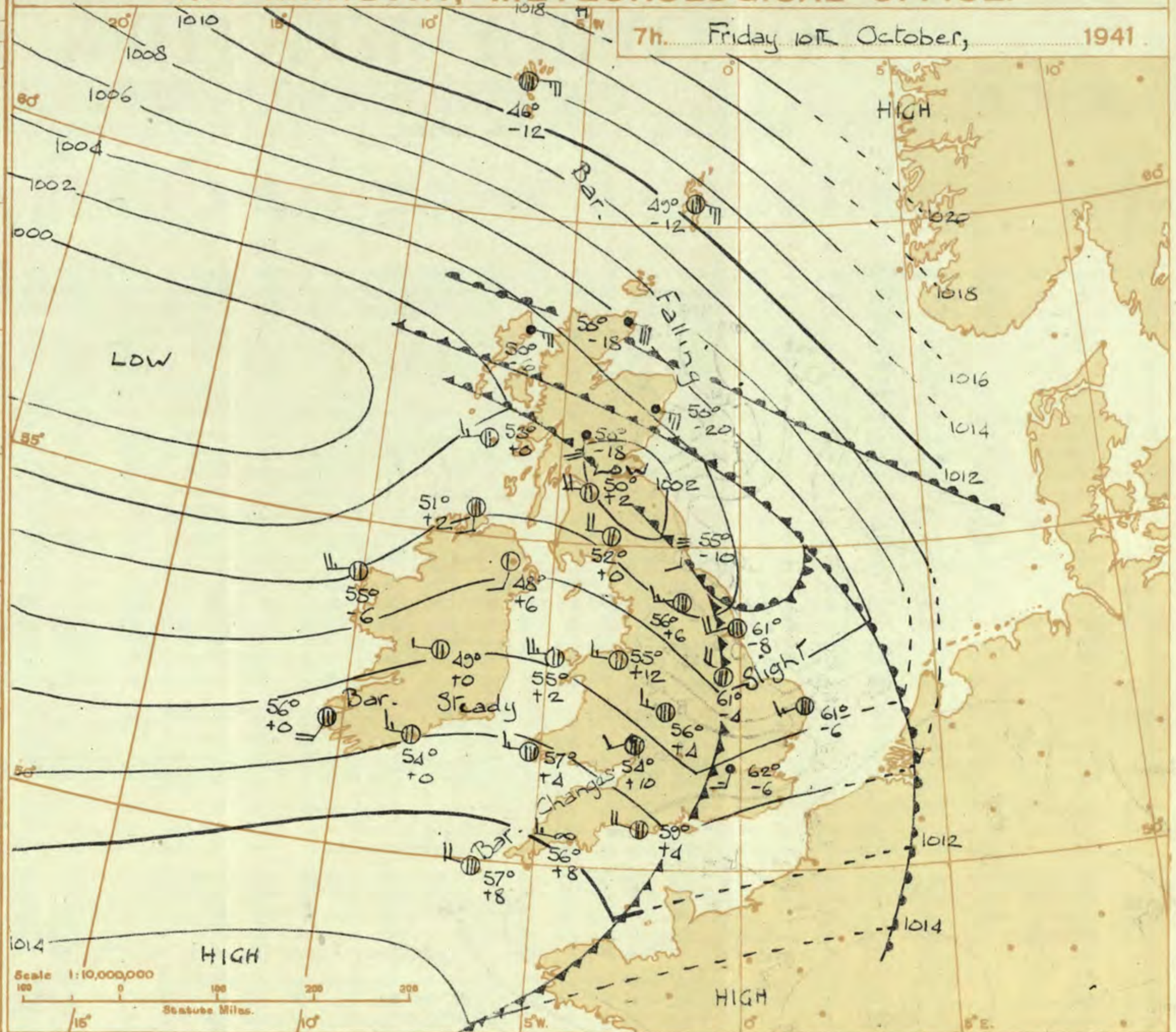
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 10th October, 1941

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 9th October			18h. G.M.T.			01h. G.M.T. 10th October			07h. G.M.T.		
III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	53	02964	06625	52	02857	07628	5-	02865	07625	5-	61648	10628
115	52	31834	08587	87	14834	41687	54	14844	41625			
203	51	02844	08425	8-	02838	06528	6-	62838	04728	6-	66838	08468
206	5-	02848	41668	57	02845	41228	57	61755	41668	5-	64748	10468
210	5-	02848	06468	52	02856	08528	57	61755	08428	52	62836	08468
220	52	02853	09517	52	63744	12468						
230	52	02845	08228	52	62746	08468	5-	66648	08468	5-	21848	00068
245	5-	02738	05558	5-	02736	40558	62	62644	08568	02	64528	07668
260				5-	52628	07458	6-	62548	06368	52	22845	20268
278	52	63737	10348	52	64626	42668	5-	64628	14368	03	00890	23361
279	62	05626	05428	6-	64528	06568	02	54518	08468	54	00742	57462
285	6-	56538	12458	6-	64538	06468				6-	02637	28567
288				02	67208	06268	62	64563	10168	57	02844	22247
575	6-	64538	10168	57	61737	14367	50	00751	23561	5-	05655	18315
301	5-	57315	00058	62	66317	16368	02	22438	55468	70	05654	39424
321	62	67328	18168	02	66218	08168	5-	22548	18368	57	05655	19326
299	5-	05547	22227				--	67109	12269	57	02744	20365
292	52	05655	17168	02	66428	06268	5-	62428	19268	57	02834	23467
310	--	57109	12249	--	67109	12249				--	03628	24528
614	62	61635	20368	52	67326	22268	62	61436	20348	57	05662	57357
333	5-	64618	20468	5-	61508	18468	5-	63618	19668	64	01841	24514
334	--	64637	26228	--	14437	28368				--	02545	28216
340	62	62648	18358	5-	22957	16267	5-	22845	16367	17	02853	24166
136	62	62427	21368	6-	62627	22368	6-	62638	20468	62	05637	20468
336	62	64653	20368									
350	62	64636	16460	62	22636	20268	62	62635	51468	5-	22838	18468
368	57	62755	22268	57	22744	20468	5-	62538	22468			
379				52	22736	22468	5-	61618	20568	13	02733	26365
390	62	64427	23367	62	64446	22468	5-	05657	20467	62	54437	22468
382	62	64747	14368	57	22766	19368	5-	62648	18468	57	21844	22457
438	51	02756	24526							--	67009	22559
430	57	02841	22455				57	61746	53428			
409	57	02841	18428	5-	61638	18568	5-	54518	19668	59	02742	24355

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



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.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 10th October, 1941.
1 S.E. England 2 E. England 3 E. Midlands 4 W. Midlands 5 S.W. England 6 South Wales	Moderate westerly winds; fair, with some bright periods; average temperature.
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	Moderate W. or S.W. winds; showers and bright intervals; average temperature.
13B. N.W. Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands ✝	Fresh or strong E. or S.E. winds, veering S.W. and moderating; dull; rainy at first; showers and bright intervals later; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 7-13.A.
19 S. E. Ireland 20 S. W. Ireland	As 1-6.

GENERAL INFERENCE.

A trough of low pressure extending N.W. - S.E. across Scotland is moving northeastwards. Ahead of this trough weather will be dull and rainy. Elsewhere it will be mainly fair with some bright periods, but with some showers in the North. Temperature will be about normal.

FURTHER OUTLOOK.

Further rain, probably affecting our western districts, and subsequently spreading eastwards.

✝ Gale warning in operation in district 16.
Time of issue 2255h on 8-10-1941.

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. 0269/4120 Wt.8176 D.8034 6p.346 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

Friday 10th October

1941.

Clarke's Projection Scale 1: 4X10⁷ along meridian at 55°N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 10th October, 1941.

No. 29,177.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1011·8	-18	SSW	3	ir₀	59	92	7	5	2	-	7-8	10	2500
	S. Farnborough	226	1011·5	-20	SW	4	ir₀	60	92	6	5	7	-	9	10	800
	Boscombe Down	417	1012·1	-20	SW'S	4	r₀r₀	59	97	7	5	-	-	10	10	400
	Thorney Island	10	1013·0	-20	WSW	3	z₀	62	85	6	5	-	-	10	10	1300
	Lympne ...	346	1014·2	-14	SSW	3	c	60	92	8	5	-	-	10	10	6000
	Manston ...	154	1011·9	-18	SW	4	c	60	92	7	5	7	-	9	10	6500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1010·8	-18	SW	5	z₀	60	92	6	5	-	-	10	10	3500
	Gorleston ...	5	1010·4	-20	SW'S	3	o/r	60	97	6	6	-	-	10	10	1500
	Mildenhall ...	19	1009·3	-26	SW'S	5	ir	60	97	6	5	2	-	10	10	1600
	Cranwell ...	240	1007·6	-18	SW	4	rr	61	92	5	5	2	-	7-8	10	600
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1010·2	-24	SSW	3	ir₀	60	92	6	5	2	-	7-8	10	700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1008·1	-22	WSW	5	r₀r₀	61	97	5	5	2	-	9	10	1500
	Bristol ...	209	1010·4	-20	SW	4	rr	61	97	4	5	-	-	10	10	1000
	Portland Bill ...	32	1012·3	-22	SW	5	o	59	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1011·5	-18	SW'S	5	dd	60	97	5	-	2	-	10	10	300
	The Lizard ...	240	1011·7	-16	SW'S	5	df	60	97	2	5	-	-	10	10	600
	Scilly (St. Mary's)	163	1011·4	-4	NW'W	4	o/r	61	97	5	5	-	-	10	10	800
	Guernsey ...	175														
6	Pembroke ...	142	1008·4	-2	W	6	cq	59	92	7	8	2	-	4-6	10	2500
7	Holyhead (Valley)	26	1004·8	-10	SW	6	z₀	60	97	5	5	-	-	10	10	800
	Chester (Sealand)	16	1006·0	-14	SW	2	c/r	64	85	6	5	7	-	9	9+	1600
8	Manchester ...	295	1006·1	-18	S	4	c	61	97	6	5	2	-	9	10	1000
10	Spurn Head ...	29	1006·2	-28	SW	4	rr	60	97	6	6	2	-	4-6	10	1500
	Catterick ...	175	1004·6	-30	-	0	df	56	97	3	5	-	-	10	10	200
	Tynemouth ...	108	1006·5	-20	E	5	rr	54	97	6	6	-	-	10	10	800
11	St. Abbs Head	280	1007·2	-24	SE	5	rr	53	97	6	5	-	-	10	10	1500
	Leuchars ...	36	1007·8	-30	ENE	5	RR	50	97	6	-	2	-	10	10	1400
12	Renfrew (Abbots I.)	19	1005·4	-22	E	4	r₀r₀	51	97	6	6	-	-	10	10	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1002·3	-8	W'S	5	c	63	97	7	6	2	-	9	10	1000
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005·9	-34	E	7	rr	49	92	7	5	7	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1011·8	-26	E	5	c	49	75	8	5	-	-	9+	9+	2500
16	Sumburgh ...	30	1014·7	-28	E	6	bc	48	85	8	5	7	-	2-3	4-6	2500
17	Blacksod Point	18	1003·9	+4	WSW	5	bcq	56	85	7	2	6	-	2-3	4-6	2500
18	Malin Head ...	84	1002·5	+14	W	5	c	56	85	7	9	5	2	4-6	7-8	1500
	Aldergrove ...	268	1004·3	+12	W'N	3	ir	55	92	7	5	-	-	9+	9+	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1009·1	+6	SW'W	4	b	55	75	8	2	-	-	Tr	Tr	2500
	Roches Point	22	1009·1	+14	WNW	3	b	55	92	8	5	-	-	1	1	4000

OBSERVATIONS at 7 hr. G.M.T. 10th October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 9th Hrs. (36)
London (Kew)	1008·3	-10	SW	3	id₀	61	92	5	5	-	-	10	10	1500	1	*	63	59	57	2	3	0·0
Croydon	1009·2	-6	SSW	3	d₀d₀	62	97	7	6	2	-	10	10	300	1	*	65	57	56	5	2	0·0
S. Farnborough	1008·7	-8	WSW	4	dd₀	61	97	8	5	-	-	10	10	800	1	*	65	59	57	5	3	0·0
Boscombe Down	1010·2	-2	W'N	4	z₀	57	97	7	8	7	-	1	9+	2000	1	*	65	57	55	0·4	3	0·1
Thorney Island	1009·9	-10	WSW	4	c/d	62	97	6	5	-	-	9+	9+	500	1	*	68	61	59	-	0·3	*
Lympne	1011·2	-12	SSW	2	dd	59	97	6	5	-	-	10	10	<150	1	§	65	57	33	2	1	0·0
Manston	1009·2	-12	SW'W	4	c	61	97	7	5	-	-	10	10	400	1	*	63	58	51	3	4	0·0
Shoeburyness	1009·2	-12	SW'W	3	ir	62	97	5	5	7	-	9	10	1300	1	*	63	58	56	5	4	0·0
Felixstowe	1007·3	-14	SW	4	o/d	61	97	7	5	-	-	10	10	700	1	3	61	58	57	11	7	0·0
Gorleston	1007·2	-6	SW'W	3	c/r	61	92	7	8	-	-	10	10	1500	1	4	63	58	57	9	17	*
Mildenhall	1006·9	-6	SW'W	3	c	62	97	7	5	-	-	10	10	800	1	*	63	59	57	11	5	0·0
Cranwell	1005·3	-4	NW	4	o	61	92	7	6	-	-	10	10	600	1	*	62	59	58	32	9	0·0
Birmingham	1007·3	+4	WNW	3	c	56	85	6	6	7	-	4-6	9+	1500	1	*	62	56	52	12	1	0·0
Upper Heyford	1007·5	-4	WSW	3	c/d	60	97	7	9	7	-	9	9+	600	1	*	61	61	57	12	1	*
Ross-on-Wye	1008·8	+10	SW'W	2	c	54	85	8	-	7	9	0	7-8	-	1	*	62	54	49	8	3	0·0
Hartland Point	1010·9	+4	WNW	4	c	57	85	7	8	-	2	4-6	9	1500	1	4	63	62	53	Tr	4	0·0
Bristol	1010·7	+16	WNW	3	c	55	85	7	5	7	1	2-3	7-8	2000	1	*	64	54	51	0·1	4	0·0
Portland Bill	1010·9	+4	WNW	4	c	59	92	7	5	-	-	10	10	2500	1	4	61	56	*	-	2	*
Plymouth	1011·9	+8	W	3	z₀	56	92	6	-	3	2	0	7-8	-	1	3	63	56	55	Tr	3	0·0
The Lizard	1012·2	+2	W	4	c	56	92	7	8	6	-	7-8	7-8	1000	1	4	63	55	*	-	2	
Scilly (St. Mary's)	1013·1	+8	WNW	4	c	57	85	8	8	7	3	4-6	7-8	1200	1	4	63	55	*	-	2	0·3
Guernsey																						
Pembroke	1010·9	+4	W	3	c	57	75	7	8	4	2	4-6	7-8	3000	1	2	63	57	*	8	2	0·0
Holyhead (Valley)	1007·2	+2	W	5	bc	55	75	8	5	-	1	2-3	2-3	4000	1	4	64	54	50	21	5	*
Chester (Sealand)	1007·5	+12	W'N	3	bc	55	85	7	2	7	1	2-3	4-6	1500	1	*	63	55	50	21	1	0·0
Manchester	1006·4	+14	W'S	4	c	55	85	6	5	7	-	4-6	9	1200	1	*	62	55	51	19	6	*
Spurn Head	1003·9	-8	WSW	4	c	61	92	7	8	-	-	9+	9+	1500	1	5	60	57	*	5	12	0·0
Catterick	1003·4	+6	W'S	3	c	56	85	9	5	3	9	1	7-8	1200	1	*	64	54	51	9	27	0·3
Tynemouth	1002·6	-10	S	2	of	55	97	3	-	2	-	10	10	1400	1	4	59	53	52	1	27	*
St. Abbs Head	1001·0	-18	SE	6	rr	53	97	6	5	-	-	10	10	800	1	4	53	48	*	-	27	*
Leuchars	1001·3	-26	E	5	RR	53	97	5	-	2	-	10	10	400	2	*	57	49	47	Tr	25	0·1
Renfrew (Abbots I.)	1002·7	+2	W'S	3	bc/r	64	97	5	5	-	-	2-3	4-6	300	1	*	58	50	48	2	23	0·0
Eskdalemuir	1002·1	0	W'N	4	bc/r	52	*	8	5	-	-	4-6	4-6	1500	1	*	57	49	49	3	30	0·0
Point of Ayre	1005·0	+10	W'N	5	b	54	92	8	4	7	-	Tr	1	2000	1	4	60	54	*	40	18	0·0
Tiree	1002·6	0	SW'W	3	bc	53	85	8	5	3	-	2-3	2-3	2500	1	3	59	51	*	3	20	0·0
Stornoway	1003·5	-6	ESE	5	RR	50	97	7	8	7	-	4-6	10	1000	1	4	56	47	*	-	13	0·2
Dalwhinnie	1003·3	-18	S	5	rr	50	85	6	5	-	-	10	10	1500	1	*	55	43	42	-	9	0·1
Aberdeen	1004·5	-20	ESE	5	r₀r₀	50	92	6	6	2	-	7-8	10	900	1	4	54	49	46	1	7	0·0
Wick	1006·9	-18	ESE	6	rr	50	92	6	6	-	-	10	10	1000	1	*	49	47	45	Tr	1	*
Sumburgh	1012·2	-12	ESE	5	c	49	75	8	5	7	-	7-8	9	1800	1	5	49	46	42	-	-	4·3
Blacksod Point	1003·4	-6	WSW	5	bcq	55	75	8	2	-	4	4-6	4-6	2500	0	4	65	53	*	18	4	*
Malin Head	1003·2	+2	S	2	c	51	85	8	2	-	4	2-3	7-8	4000	1	2	59	49	*	16	22	0·0
Aldergrove	1005·9	+6	SSW	2	b	48	97	7	5	-	-	1	1	2500	1	*	60	47	42	32	6	0·0
Birr Castle	1007·5	0	W	1	bc	49	92	8	5	-	-	2-3	2-3	2500	1	*	64	47	43	9	2	0·0
Valentia Obsy.	1008·6	0	SW'S	4	c	56	75	8	8	-	-	7-8	7-8	4000	1	5	64	54	48	10	-	0·0
Roches Point	1010·1	0	W	3	bc	54	92	8	5	-	1	4-6	4-6	2500	1	4	63	52	*	15	2	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	drd₀m₀cir₀	cir₀r₀r₀m₀	cir₀cid₀	63	59	57	2	3	0·0	*	*	7
Croydon	217	d₀r₀rc	cir₀r₀r₀	cr₀r₀cd₀d₀	65	57	56	5	2	0·0	*	*	7
Greenwich (Royal Observatory)	149	cr₀	r₀crir₀	ir₀ir	64	59	55	1	5	0·0	88	83	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	64	58	57		6		87	91	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	c	o	*	63	59	56	2	9	*	*	82	*
Kensington	80	orc	cr	*	64	59	56	2	6		94	87	*
Hampstead Observatory	450	or	or	o	61	57	54	1	6		*	92	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 10th

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0·1	7-20h 9th	<0·1	0-7h 10th

FOREIGN OBSERVATIONS.

Stations	Evening of 9th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 10th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1017·5	E	3	c	50	1014·9	ESE	1	b	39	*	*	*	*
Lisbon (18h and 07h)	1018·1	N	3	z₀	73	1018·9	NNE	2	z₀	68	81	63	-	-
¶Madrid (18h and 07h)	905·7	WSW	2	z₀	68						77		-	
Cairo (Heliopolis) (18h and 06h)														
Toronto (13h and 01h)														
Washington (13h and 01h)						1010·0	S	2	c	53		*		*

¶Pressure at 1,000 dynamic metres level.

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 —Code for surface visibility.

Code	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ „
6 Moderate „	6¼ „
7 Good	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30—Code for State of Sea.

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

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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

Saturday 11th October 1941.

No. 29178

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1010·1	+8	W	3	c	59	65	8	5	7	1	7-8	9	1500
	Croydon	1010·3	+6	W	2	c	58	75	7	9	9	-	2-3	9+	2000
	S. Farnborough	1010·6	+2	W	3	c	59	75	8	5	7	8	4-6	9	3100
	Boscombe Down	1010·7	-6	WNW	5	c	61	65	8	5	3	2	4-6	7-8	2000
	Thorney Island	1011·1	+2	W	3	c	61	75	8	5	3	2	1	9+	2500
	Lympne	1010·9	+4	W	4	c	58	75	8	5	7	-	7-8	10	4000
	Manston	1009·2	+6	WN	4	c	59	75	7	5	7	-	7-8	9+	2000
2	Shoeburyness	1009·5	+10	W'N	3	c	59	75	7	5	7	-	4-6	9	1500
	Felixstowe	1007·6	+6	WNW	4	c	60	75	8	1	7	-	Tr	9+	1500
	Gorleston	1006·8	+4	W'N	3	c	59	75	7	5	-	-	7-8	7-8	1500
	Mildenhall	1008·0	+4	W	4	c	52	65	7	5	7	-	4-6	9	2500
	Cranwell	1007·3	+2	W'S	4	bc	59	65	7	2	3	-	2-3	2-3	1800
3	Birmingham	1008·0	-4	W	3	bc	60	65	8	8	-	-	4-6	4-6	1500
	Upper Heyford	1009·1	+2	WSW	4	c	58	75	8	5	7	3	7-8	7-8	3500
4	Ross-on-Wye	1009·4	-8	W'S	3	bc	62	65	8	2	4	-	2-3	4-6	4000
5	Hartland Point	1010·9	-8	WSW	4	c	59	85	8	2	4	6	2-3	7-8	2000
	Bristol	1012·2	-2	W	3	bc/pr	60	75	8	8	6	-	2-3	2-3	1800
	Portland Bill	1012·3	+4	W	4	c	60	92	8	2	4	-	4-6	9	4000
	Plymouth	1012·4	-6	WNW	4	c	61	85	8	2	3	6	2-3	7-8	3000
	The Lizard	1013·7	-4	SW	4	bc	62	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1013·2	-4	W	4	bc	63	75	8	2	3	2	2-3	4-6	1700
	Guernsey														
6	Pembroke	1009·8	-12	WSW	6	bcq	60	75	8	2	6	-	2-3	4-6	3000
7	Holyhead (Valley)	1006·5	-10	WSW	4	bc	60	75	8	2	-	6	Tr	4-6	3000
	Chester (Sealand)	1007·2	-8	W	3	c	60	55	8	2	6	3	4-6	7-8	2000
8	Manchester	1006·6	-6	W'S	4	c	59	65	8	2	-	3	7-8	7-8	2500
10	Spurn Head	1004·8	-2	W	4	bc	58	75	7	1	7	-	2-3	4-6	4000
	Catterick	1004·1	-6	W	4	bc	61	55	8	1	-	9	2-3	4-6	2500
	Tynemouth	1002·5	+6	W	5	bc	59	55	7	2	-	-	2-3	2-3	1400
11	St. Abbs Head	999·1	-10	NW	5	bc	57	65	8	4	4	-	2-3	4-6	2000
	Leuchars	998·3	-16	W	7	bc	57	75	9	8	-	-	4-6	4-6	1800
12	Renfrew (Abbots I.)	1003·1	-6	W'N	4	bc	60	65	8	2	-	5	4-6	4-6	2500
	Eskdalemuir	1002·2	-8	W'S	5	bc	54	65	8	8	-	1	4-6	4-6	1500
	Point of Ayre	1005·2	-2	W	5	c	59	85	8	2	-	6	1	9	2000
13A	Tiree	1002·4	-4	SW'S	3	c	57	85	8	8	-	-	7-8	7-8	1500
13B	Stornoway	1004·0	+12	ESE	3	c	53	85	8	5	7	-	7-8	9+	1500
15	Dalwhinnie	1001·5	+2	NE	3	c	52	75	7	5	-	-	10	10	2500
	Aberdeen	1001·5	-12	E	5	rr	50	97	5	6	-	-	10	10	800
	Wick	1006·4	-6	E	5	rr	48	85	6	5	2	-	7-8	10	900
16	Sumburgh	1010·6	-6	ESE	5	c/pr	49	75	8	8	7	6	7-8	9+	1800
17	Blacksod Point	1000·4	-14	WSW	6	rr	54	92	7	6	-	-	10	10	800
18	Malin Head	1001·9	-14	SSW	4	c/pr	55	75	8	9	-	-	9	9	2500
	Aldergrove	1004·1	-14	SW'S	3	c	56	85	8	8	7	-	2-3	10	3500
19	Birr Castle	1005·4	-18	SW	4	c	59	65	8	3	7	-	4-6	9	1500
20	Valentia Obsy. †	1006·9	-16	SW	5	c	60	75	8	8	-	-	7-8	7-8	4000
	Roches Point	1008·6	-10	WS	4	bc/pr	57	85	8	3	3	-	4-6	4-6	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1009·5	-4	SWW	3	zo	57	85	6	5	9	-	7-8	9+	2500	1	*
	Croydon	1010·0	+2	SW	1	c	57	85	6	-	7	3	0	9	-	1	*
	S. Farnborough	1009·9	-2	SW'W	3	c	56	85	7	4	3	4	Tr	9+	3000	1	*
	Boscombe Down	1010·4	-2	SW'W	4	c	56	75	7	5	7	-	2-3	9	3000	0	*
	Thorney Island	1010·8	-2	SW'W	3	zo	59	85	6	5	7	-	4-6	10	4000	0	*
	Lympne	1011·5	+4	W	1	c	54	85	7	5	7	-	Tr	9	5000	1	§
	Manston	1010·4	+10	SW	3	zo	53	85	6	-	7	9	0	9	-	1	*
2	Shoeburyness	1009·5	0	SW	3	c	57	85	7	5	7	-	4-6	7-8	4000	0	*
	Felixstowe	1008·0	+2	SW'W	3	b	57	85	7	-	4	3	0	1	-	1	3
	Gorleston	1007·8	+4	SW'W	2	bc	57	75	6	-	4	-	0	2-3	-	1	3
	Mildenhall	1007·6	-2	SW	3	c	57	85	7	5	-	-	7-8	7-8	4500	1	*
	Cranwell	1006·2	-4	SW'W	4	c	55	75	7	5	3	-	4-6	7-8	4000	0	*
3	Birmingham	1007·1	-6	WSW	4	pr	55	85	7	8	7	-	4-6	9	2500	1	*
	Upper Heyford	1008·4	+2	SW	3	bc	55	85	8	5	4	-	2-3	4-6	2500	1	*
4	Ross-on-Wye	1008·4	-6	WSW	3	c	57	75	8	5	1	2	7-8	9+	1500	1	*
5	Hartland Point	1008·7	-10	W	3	c	58	85	8	8	7	-	4-6	9	1200	1	4
	Bristol	1010·1	-2	WSW	3	c	57	75	7	8	3	9	2-3	9	2000	1	*
	Portland Bill	1011·2	-4	SW	4	c	59	92	7	5	-	-	10	10	2500	1	4
	Plymouth	1010·9	-6	WSW	4	c	59	85	7	1	5	7	1	10	3000	0	4
	The Lizard	1012·6	-6	WSW	5	c	57	92	8	8	6	-	7-8	7-8	2500	0	4
	Scilly (St. Mary's)	1012·2	-6	W'N	5	cjp	57	85	8	8	6	3	4-6	9	1500	1	4
	Guernsey																
6	Pembroke	1007·7	-6	WSW	7	cq	59	85	8	8	-	-	9	9	2000	1	4
7	Holyhead (Valley)	1003·8	-16	SW	5	c	58	85	7	2	7	8	1	9+	3000	1	4
	Chester (Sealand)	1005·7	-10	SW	3	iro	57	75	7	5	3	-	7-8	9	2000	0	*
8	Manchester	1005·6	-10	SW'S	2	c	55	75	7	8	6	-	9	9+	2500	1	*
10	Spurn Head	1004·7	0	WSW	4	c	57	75	7	5	-	-	7-8	7-8	5700	0	4
	Catterick	1003·8	-2	W'S	4	c/pr	55	75	7	5	7	-	4-6	7-8	2300	1	*
	Tynemouth	1002·2	-2	W	5	c	55	75	6	5	-	-	7-8	7-8	2400	1	4
11	St. Abbs Head	1000·3	+18	WNW	6	iro	50	92	8	5	2	-	7-8	10	500		4
	Leuchars	1002·3	+18	NNW	3	iR	50	92	6	5	2	-	9	10	1200	2	*
12	Renfrew (Abbots I.)	1002·7	-2	SE	1	iro	58	85	8	5	2	-	7-8	10	2000	1	*
	Eskdalemuir	1002·5	+2	W'S	3	c	51	75	8	5	-	-	9	9	1500	1	*
	Point of Ayre	1002·8	-14	W'S	3	c	55	85	8	5	2	-	4-6	10	5000	1	2
13A	Tiree	1000·7	-10	SE'S	2	dodo	51	85	7	5	-	-	9+	9+	1500	0	3
13B	Stornoway	1004·6	+6	E	6	c	52	85	8	8	9	-	7-8	10	1000	1	4
15	Dalwhinnie	1003·0	0	NE	2	o	46	92	7	5	-	-	10	10	1500	1	*
	Aberdeen	1002·7	+12	ENE	4	roro	49	92	6	6	-	-	10	10	800	1	5
	Wick	1006·3	+2	E	5	c/r	48	85	7	5	2	-	9	10	1000	1	*
16	Sumburgh	1009·8	-2	E	5	c	47	65	8	1	7	8	4-6	7-8	1800	1	5
17	Blacksod Point	998·1	-8	WSW	7	c/pr	56	97	7	9	-	-	9	9	1500	1	6
18	Malin Head	998·9	-16	S	1	pr	52	85	7	6	7	-	4-6	9	1500	1	4
	Aldergrove	1001·4	-18	SW'S	1	c/r	52	97	8	5	7	-	4-6	9+	1200	1	*
19	Birr Castle	1002·9	-6	SW	2	pr	54	92	7	9	2	-	7-8	10	1500	1	*
20	Valentia Obsy. †	1006·4	+2	SW'W	5	c	59	92	8	8	-	-	9+	9+	2500	1	5
	Roches Point	1006·5	-10	W	5	c	58	85	8	3	3	9	2-3	7-8	1500	1	5

PAST 24 HOURS. — WEATHER.

District	Stations	7h.—13h. 10th (37)	13h.—18h. 10th (38)	18h. 10th to 1h. 11th (39)	1h.—7h. 11th (40)
1	London (Kew)	cidomoc	bccmo	cmoc	crrroroc
	Croydon	cdodoc	c, bcc	cmo	cRroro
	S. Farnborough	dodoc	cprobcc	c	cdoRrroc
	Boscombe Down	bcc	c	c	cRR
	Thorney Island	cidoc	ccmo	cmobccmo	cmoRRroro
	Lympne	dofmDc	c	cbcc	crcRRroro
	Manston	cidoc	cbcc	cmo	cmrorr
2	Shoeburyness	cmoirc	cbc		rrirocl
	Felixstowe	oiroc	cb	b, c, mo	ccroirc
	Gorleston	cproc	cbc	bcc	cproc
	Mildenhall	c	cbc	bccbcc	ccroroiromo
	Cranwell	ocbc	bc	cmoirobcmo	bc
3	Birmingham	cbc	bcc	co	oiRo
	Upper Heyford	c	c	bcciro	crormoc
4	Ross-on-Wye	ccbcv	bcbbcc		Rcbc
5	Hartland Point	c	cp	cp	r
	Bristol	cprobc	bc proc	bc, c	crr moRRc
	Portland Bill	c	c	orro	orr
	Plymouth	cmobc	bcc	crorormo	r
	The Lizard	cbc	c	cproc	c
	Scilly (St. Mary's)	c	bccbpoc	c	bc
	Guernsey				
6	Pembroke	bcprq	bccproq	croroiro	r
7	Holyhead (Valley)	bbc	bbcirc	ciromocbcmo	cmoc
	Chester (Sealand)	bc	bcprocirc	ciromororolc	cdorobcPR
8	Manchester	cmoc	bcc	ciromo	proirmoc
10	Spurn Head	cbc	bcc	cqro	bcbir
	Catterick	bcbcy	bcyc	cmororoc	ciroc
	Tynemouth	oifcbc	bcc	cbcc	coiro
11	St. Abbs Head	cbc	cbccm	cqror	c
	Leuchars	cmoRrrcbc	RcroiRmo	crorrmoro	crorobcc
12	Renfrew (Abbots I.)	bcmobc	bcciro	lromororoc	cbcb
	Eskdalemuir	bccbc	bcc	ciro	irobcpro
	Point of Ayre	bbcc	cprc	croro	rorocbc
13A	Tiree	bc	cidodo	cdobc	bcb
13B	Stornoway	cRR	cpro	c	bc
15	Dalwhinnie	irco	prc		cir
	Aberdeen	corrmo	rrroro	ororomocm	bciromo
	Wick	errmo		ccjpcbc	bccprobc
16	Sumburgh	irocproc		cbccpro	corobc
17	Blacksod Point	rrq	PRcq	cq	proc
18	Malin Head	cproc	cprc	cprPRcmr	c
	Aldergrove	bbc	priRroro	crorocctrc	cprcrorob
19	Birr Castle	c	cpr	*	bcprc
20	Valentia Obsy. †	cPRcbc	cPRc	cPRiroc	ciRbcc
	Roches Point	prbc	proc	propr	cbc

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

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

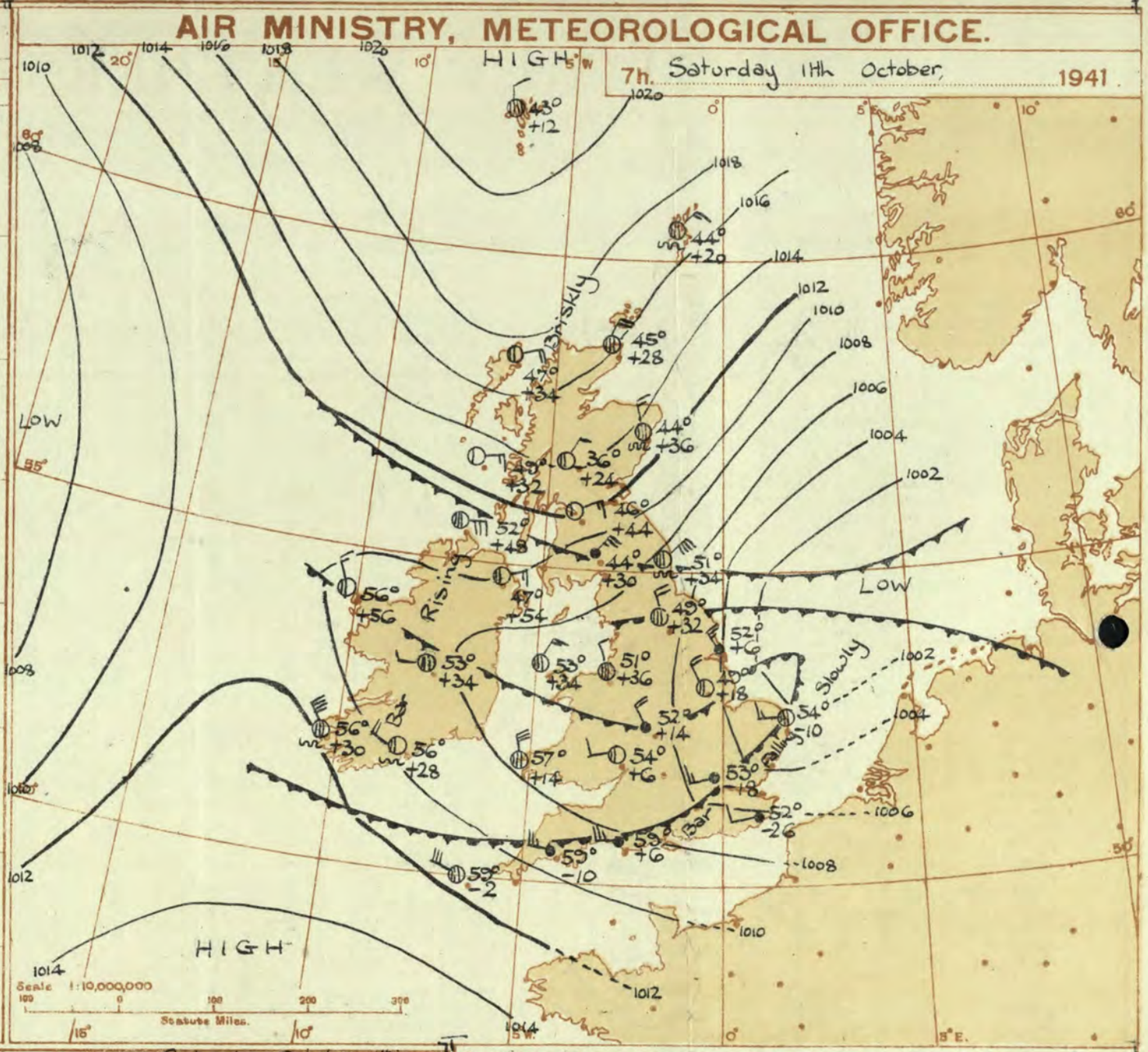
Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 10th October			18h. G.M.T.			01h. G.M.T. 11th October			07h. G.M.T.		
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	62	21846	42628	82	02855	41625	5-	02747	46627	80	01943	02383
115	52	62835	08568	52	62735	08568	52	81834	08587	87	02944	08586
203	8-	02937	08327	87	02935	08428	8-	02886	08566	50	00951	08511
206	52	64737	08568	52	64644	08568	52	22755	41567	57	22855	04367
210	62	64537	07468	6-	62528	06568	87	81844	39666	8-	25954	04484
220	50	82746	13186							20	01953	06403
230	86	10854	20485	82	10853	00028	80	01953	08114	10	00952	06112
245	62	62627	07668	62	64627	01568	8-	22756	02466	8-	81965	02585
260	23	02856	56417	81	05655	02287	5-	62648	02368	54	01854	02364
278	51	02841	22317	52	64745	19368	5-	22857	16167	50	00862	06462
279	20	01763	22514	62	61744	53468	5-	05657	03267	73	01854	04314
285	23	01854	26614	57	02854	26527				6-	58638	32468
288	26	01854	57515	57	02754	21427	52	05654	30268	62	61645	64568
575	57	22844	22367	62	62637	18268	83	02855	22285	46	01848	08324
301	20	02753	24525	57	22845	24528	2-	81647	59587	53	00852	02283
321	86	05664	27415	56	05554	23214	57	05654	20326	57	02745	27426
299	5-	01743	20313	5-	02757	20327	5-	64648	20368	8-	02746	30726
292	50	01943	23514	49	02812	21326	52	22755	00088	5-	02847	31587
310	--	01644	24514	--	01636	24416				--	01635	32465
614	20	01754	57424	06	05690	20225	57	61654	22388	53	05664	30465
333	1-	01854	18414	53	02844	20517	5-	25854	24564			
334	--	02746	26316							--	63547	24288
340	20	01834	55414				52	64638	24368	57	51744	32465
136	19	02642	25527	09	05690	20414	5-	02766	18486	54	02755	28465
336	12	01762	20414	13	01763	24516				51	22762	28465
350	57	02852	26466	57	01753	20314	5-	02744	22427	87	02755	24365
368	86	02844	56585	57	02644	22588	8-	81645	55585	87	22644	22388
379				52	01854	00054	57	22645	22468			
390	17	02751	26456	33	05651	22315	03	05690	22526	87	05635	23488
382	17	02853	22326	57	02865	20326	5-	02747	20427	53	02845	24326
438	5-	02757	22527							6-	46748	20468
430							57	02764	22428	62	64766	24XXX
109	23	02743	22425	27	02741	22527	52	22647	20668	62	62627	21668

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 11th October 1941



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday October 11th 1941
1 S.E. England 2 E. England ... ▲ 3 E. Midlands ...	Moderate N.W. to N. wind veering slowly N.E. and freshening temporarily; light local rain at first, persisting on coasts but becoming fair inland; cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Moderate or fresh N. wind veering N.E. to E. temporarily but backing later; light local rain at first, then becoming fair but cloudy later; average temperature.
10 N.E. England ▲ 11 S.E. Scotland	Strong E. to N.E. Wind, gale locally on coasts, moderating later; cloudy; temperature rather below average.
12 S.W. Scotland & Isle of Man. 13A. W. Scotland 13B. N.W Scotland 14 Mid Scotland	Fresh or strong E. to N.E. winds, moderating later; cloudy; temperature rather below average.
15 N. E. Scotland 16 Orkneys and Shetlands	Fresh to moderate N.E. wind; local showers with bright periods; cool.
17 N. W. Ireland 18 N. E. Ireland	Moderate E. wind veering S.E.; fair at first, becoming cloudy later; average temperature.
19 S. E. Ireland 20 S. W. Ireland	Moderate N. wind veering E. and then S.E. temporarily but becoming variable later; fair at first, becoming cloudy with rain later; 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 North of the British Isles and relatively low to the S.E. A depression in the southern North Sea with a trough extending westwards is moving slowly southeast. It will be fair and rather cold in the North, but is likely to remain rather unsettled with average temperature in the South.

FURTHER OUTLOOK.

Generally unsettled except in the extreme north.

▲ Gale warning in operation in districts 2 and 10.

Time of issue 1045 on 11:10:41.

Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Meteorological Office Dunstable. 6269/4120. Wt. 8/76. 0. 6034. 6p. 948. 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
Saturday 11th October,
1941.

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 11th October 1941.

No. 29,178

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	0–9 Visibility. (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1007·9	-4	SW'W	4	c	56	85	7	5	3	-	1	10	2500
	S. Farnborough	226	1007·7	-14	WSW	5	c	56	85	7	5	7	-	7-8	10	2000
	Boscombe Down	417	1008·8	-14	SW	4	c	55	85	8	-	7	8	0	7-8	-
	Thorney Island	10	1008·8	-14	W'N	4	2_0	59	85	6	5	3	-	4-6	10	1800
	Lympne ...	346	1010·1	-10	WSW	3	c	55	92	7	-	7	-	0	9+	-
	Manston ...	154	1007·3	-20	WSW	4	2_0	56	85	6	-	7	-	0	10	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1006·3	-10	SW'W	4	c	57	85	7	5	7	-	9+	10	5600
	Gorleston ...	5	1005·6	-14	SSW	3	c	55	85	6	5	-	-	10	10	800
	Mildenhall ...	19	1005·2	-14	SW	5	c	55	92	7	5	-	-	9+	9+	4000
	Cranwell ...	240	1003·4	-14	SW	5	2_0	54	92	6	5	-	-	9+	9+	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1006·3	-10	SW'W	4	ir_0	56	92	7	5	7	-	7-8	10	1400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007·3	-14	W	5	c	58	92	7	5	2	-	7-8	10	1500
	Bristol ...	209	1008·4	-6	SSW	4	c	57	85	8	5	-	-	9+	9+	2000
	Portland Bill ...	32	1009·4	-8	SW	5	c/r	59	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1009·9	-10	SW	4	ir_0	59	92	7	5	1	-	7-8	10	2000
	The Lizard ...	240	1012·1	-2	WSW	5	c/pr	57	92	7	8	2	-	7-8	10	1000
	Scilly (St. Mary's)	163	1011·7	-6	W'N	5	c	58	85	8	8	2	-	7-8	10	1500
	Guernsey ...	175														
6	Pembroke ...	142	1004·3	-20	WSW	8	ir_0	59	85	6	8	-	-	9	9	1500
7	Holyhead (Valley)	26	1002·9	+4	WSW	4	bc_0	56	85	6	5	-	-	4-6	4-6	2500
	Chester (Sealand)	16	1003·2	-2	NW	1	id_0	55	85	6	5	-	-	9+	9+	2000
8	Manchester ...	235	1003·3	-8	SSW	2	c/r	53	97	7	5	7	-	7-8	10	1500
10	Spurn Head ...	29	1002·7	-16	SW'S	5	ir_0	54	85	6	6	-	-	9	10	4000
	Catterick ...	175	1002·7	+2	N'W	3	c	51	85	7	5	7	-	4-6	9	2700
	Tynemouth ...	108	1002·2	0	NNW	6	c	50	85	7	2	-	-	7-8	7-8	2500
11	St. Abbs Head	280	1003·7	+16	N	6	r_0r_0	49	85	7	5	2	-	7-8	10	450
	Leuchars ...	36	1005·1	+16	ENE	2	r_0r_0	47	97	7	6	2	-	4-6	10	2200
12	Renfrew (Abbotsl.)	19	1005·3	+18	E	3	c	49	75	7	5	7	-	2-3	9+	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1001·9	0	W'N	2	r_0r_0	53	97	7	6	2	-	7-8	10	1000
13A	Tiree	22	1005·0	+30	ENE	3	bc	51	85	8	2	2	-	2-8	2-8	2500
13B	Stornoway ...	80	1010·2	+32	ENE	5	c	48	75	7	1	7	-	4-6	7-8	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1010·3	+18	E'N	7	bc	46	65	8	7	6	3	2-3	4-6	2000
16	Sumburgh ...	30	1012·3	+2	NNE	5	pr	46	85	8	8	-	-	9	9	2500
17	Blacksod Point	18	1000·4	+16	WSW	7	cq	56	92	7	9	-	-	9+	9+	1500
18	Malin Head ...	84	1000·9	+18	ESE	3	r	54	92	6	6	-	-	9+	9+	800
	Aldergrove ...	268	1002·0	+12	S	1	pr	52	97	7	8	-	-	9	9	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1007·0	+6	W'S	6	c/r	59	92	6	6	2	-	7-8	10	1500
	Roches Point	22	1005·7	-2	W	6	pr	60	92	7	3	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 11th October

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	0–9 Visibility. (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
	1004·5	-14	W	2	c/r	54	92	7	5	-	-	9+	9+	1500	1	*
	1004·5	-18	WSW	3	2_0	53	97	7	6	7	-	4-6	9	800	1	*
	1000·4	-14	W	3	2_0	53	92	7	5	2	-	2-3	10	2000	1	*
	1005·9	-6	W'S	4	2_0	53	97	7	8	-	-	9	9	1400	1	*
	1007·2	-2	WNW	3	2_0	53	92	7	5	-	-	10	10	1500	1	*
	1005·7	-26	WSW	2	2_0	52	97	8	6	2	-	9+	10	300	1	*
	1004·9	-12	W'S	3	c/r	54	85	8	5	7	-	2-3	10	3000	1	*
	1004·3	-18	W'S	4	ir	55	85	8	5	7	-	7-8	10	1600	1	*
	1002·6	-18	W'S	5	c/r	55	85	8	5	1	-	7-8	10	4000	1	3
	1002·3	-10	W'S	3	c	54	85	7	8	4	-	7-8	7-8	2500	0	3
	1003·3	-2	WNW	4	ir_0	54	97	6	5	-	-	10	10	1500	1	*
	1004·4	+18	NW'N	4	bc	49	85	7	5	4	-	4-6	4-6	800	1	*
	1005·9	+14	NW	4	ir	52	92	6	6	2	-	9	10	800	1	*
	1004·4	+10	W	3	c	52	92	8	8	3	-	4-6	7-8	2500	1	*
	1005·9	+6	W'S	2	bc	54	85	8	8	-	-	4-6	4-6	2500	1	*
	1008·1	+18	WNW	3	rr	54	97	6	6	2	-	7-8	10	800	1	5
	1006·1	-2	WNW	4	c/r	55	92	7	8	3	-	7-8	9+	1000	1	*
	1008·3	+6	W	5	rr	59	92	7	5	-	-	10	10	2500	1	4
	1007·9	-10	W'N	5	r_0r_0	59	97	7	6	1	-	7-8	10	400	1	4
	1010·3	-10	WSW	6	c	58	92	7	8	2	-	9	10	1500	0	5
	1010·6	-2	WNW	6	c	59	92	7	8	2	-	4-6	9+	1000	1	*
	1007·3	+14	N'W	6	c/r	57	85	7	8	-	-	7-8	7-8	1500	1	4
	1006·8	+34	NNE	3	c	53	97	8	9	3	-	7-8	9	1500	1	3
	1006·9	+36	NNW	1	c	51	85	6	8	7	-	4-6	9+	1200	1	*
	1006·3	+32	NNE	3	c	49	85	6	5	7	-	7-8	9+	2000	1	*
	1002·1	+6	NW	5	ir	52	85	7	3	-	-	9	9	800	*	4
	1007·1	+32	NNW	4	c/r	49	92	6	6	3	-	9	9+	300	1	*
	1007·1	+34	NE	8	c/r	51	75	7	2	-	-	7-8	7-8	2000	1	5
	1010·2	+40	N	5	c	48	75	8	5	7	-	4-6	7-8	2200	1	4
	1012·3	+42	N	2	c	45	75	8	5	-	-	9+	9+	2500	1	*
	1012·7	+44	NE'E	3	b	46	75	9	5	4	-	Tr	1	4000	1	*
	1009·7	+30	NNE	5	pr	44	85	7	5	-	-	4-6	4-6	800	1	
	1008·6	+38	E	5	bc	52	75	8	8	-	-	2-3	2-3	1800	1	5
	1013·3	+32	E'N	3	b	49	75	9	5	4	-	Tr	1	3500	0	3
	1017·7	+34	ENE	4	bc	47	75	8	5	7	-	2-3	4-6	2000	1	3
	1014·9	+24	NNE	1	bc	36	92	7	5	-	-	2-3	2-3	1500	1	*
	1013·6	+36	N'W	3	c/r	44	75	8	9	-	-	7-8	7-8	900	1	5
	1015·6	+28	NNE	4	c/pr	45	85	9	2	-	-	7-8	7-8	2000	1	*
	1015·7	+20	NE	3	c/pr	44	85	8	8	-	-	7-8	7-8	2500	1	5
	1009·5	+56	NNW	3	bc/pr	56	92	8	2	-	-	4-6	4-6	1500	1	3
	1011·7	+48	E	6	c	52	75	8	9	-	-	7-8	7-8	2500	0	*
	1010·6	+54	ENE	3	bc	47	92	8	7	-	-	2-3	2-3	4000	1	*
	1008·3	+34	W	1	c	53	92	8	5	-	-	7-8	7-8	2500	1	*
	1011·5	+30	NW'N	8	c	56	85	8	2	-	-	9	9	2500	1	5
	1009·3	+28	NW'W	4	bc	56	85	8	5	-	-	4-6	4-6	2500	1	5

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine Hrs. (36)
	61	53	51	Tr	4	1·4
	62	51	50	0·1	6	2·1
	63	51	50	Tr	13	2·5
	61	52	50	Tr	13	1·5
	65	53	52	-	10	*
	62	51	50	0·4	7	0·5
	63	56	50	Tr	1	0·5
	64	54	49	-	3	1·3
	64	55	54	0·1	1	1·6
	65	53	47	Tr	Tr	*
	64	53	48	-	1	3·0
	62	48	*	-	0·6	4·6
	62	51	48	Tr	4	3·3
	61	52	51	Tr	2	*
	63	53	50	-	9	4·3
	59	53	52	1	13	3·2
	62	54	51	Tr	19	*
	60	57	*	-	6	*
	64	57	*	-	0·4	3·2
	62	56	*	-	0·5	4·8
	63	57	*	0·1	-	4·7
	62	54	*	1	11	3·9
	61	52	51	0·2	4	*
	64	51	45	Tr	9	6·9
	59	49	47	-	12	*
	62	51	*	-	0·6	4·0
	62	48	47	-	1	6·6
	59	50	48	-	0·6	*
		45	*		0·3	*
	57	45	41	9	4	0·5
	60	45	39	0·1	1	5·6
	50	43	41	-	0·6	4·3
	60	51		0·2	8	5·3
	58	48	*	Tr	-	2·8
	54	50	*	5	0·3	2·2
	52	35	29	17	2	0·5
	51	44	40	47	10	0·0
	51	45	42	11	0·2	
	51	43	39	0·5	0·2	1·3
	58	54	*	6	3	*
	56	48	*	1	11	2·2
	57	46	42	4	2	2·3
	61	52	49	1	3	3·1
	60	55	52	2	3	3·8
	61	55	*	1	5	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cld_0c	$bccm_0$	cm_0crr_0	61	53	51	Tr	4	1·4	•	•	6
Croydon	217	cd_0d_0c	c/bcc	$cm_0cR_0r_0$	62	51	50	0·1	6	2·1	•	•	6
Greenwich (Royal Observatory)...	149	c	cbcy	$bccrr_0c$	61	52	50	-	4	1·7	58	87	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	62	53	52	3			64	98	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	62	53	51	Tr	3		77	87	•
Camden Square	110	c	bc	•	62	53	51	Tr	0·3	•	•	91	•
Kensington	80	bc	bcc	•	63	52	51	0·1	4		75	96	•
Hampstead Observatory	450	o	bc	or	61	51	48	-	2		•	96	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 11th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	13-18h 10th	<0·1	0-5h 11h

FOREIGN OBSERVATIONS.

Stations	Evening of 10th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 11th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	1015·4	NNW	1	bc	46	1029·1	-	0	c	43
Lisbon (18h and 07h)	1017·3	NNW	3	2_0	72	1018·6	NNE	2	b	66
¶Madrid (18h and 07h)	904·2	SW	2	2_0	68	904·8	ENE	2	2_0	55
Cairo (Heliopolis) (18h and 06h)	1018·5	NNE	2	b	70					
Toronto (13h and 01h)						1012·6	WNW	4	r_0r_0	43
Washington (13h and 01h)						1014·6	WNW	5	b	61

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
81	63	-	-
77	54	-	-
81		-	
*	*	*	*
60	71	*	*

¶Pressure at 1,000 dynamic metres level.

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Sunday 12th October 1941.

No. 29179

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1012·5	+42	N'W	4	c	56	65	8	5	-	-	9+	9+	1500
	Croydon	1011·7	+42	NW'N	5	c	55	65	7	9	6	-	7-8	9+	2000
	S. Farnborough	1012·5	+46	NNE	4	c	56	65	8	2	3	-	4-6	7-8	2500
	Boscombe Down	1013·5	+44	NNE	5	c	57	65	7	7	-	-	7-8	7-8	3000
	Thorney Island	1012·1	+40	N	4	bc	59	65	8	1	6	-	4-6	4-6	2500
	Lympne	1010·5	+26	NW	5	c	54	75	8	2	6	-	7-8	9	1800
	Manston	1008·7	+30	NW'N	6	c	55	75	7	7	3	-	9+	9+	1200
2	Shoeburyness	1010·2	+36	NNW	4	pr	55	75	8	8	-	-	9+	9+	1200
	Felixstowe	1007·7	+20	NW'N	6	cq	55	75	8	1	3	-	7-8	10	1800
	Gorleston	1007·5	+50	NNW	7	c/pr	55	85	7	8	-	-	10	10	800
	Mildenhall	1010·9	+46	N	5	c	56	75	8	8	-	-	7-8	7-8	2000
	Cranwell	1013·7	+50	N	4	bc	53	65	8	8	-	-	4-6	4-6	1800
3	Birmingham	1014·8	+40	NNE	4	c	55	55	7	8	-	-	7-8	7-8	2500
	Upper Heyford	1013·1	+40	N	5	c	54	65	8	8	-	-	7-8	7-8	3000
4	Ross-on-Wye	1014·8	+30	NE'N	4	c	55	65	8	8	-	-	9+	9+	2500
5	Hartland Point	1013·9	+28	NNW	3	bc	57	85	8	2	4	-	2-3	2-3	2500
	Bristol	1014·4	+46	NNE	4	c	57	65	7	8	-	-	7-8	7-8	2500
	Portland Bill	1011·7	+24	NW	3	c	61	92	8	2	-	-	9	9	1000
	Plymouth	1011·6	+14	NW'N	4	bc	62	75	8	2	-	-	4-6	4-6	2500
	The Lizard	1014·3	+24	NW	4	bc	61	75	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	1015·2	+28	N	4	bc	62	75	8	8	4	-	2-3	2-3	1500
	Guernsey														
6	Pembroke	1014·6	+12	N	4	bc	62	75	8	1	-	-	2-3	2-3	4500
7	Holyhead (Valley)	1016·1	+38	E	4	bc	56	65	8	7	4	-	4-6	4-6	2500
	Chester (Sealand)	1015·8	+40	NNE	4	bc	56	85	7	4	-	-	4-6	4-6	2000
8	Manchester	1015·8	+44	N'E	4	c	53	55	6	4	6	-	7-8	7-8	3500
10	Spurn Head	1012·3	+58	NNE	7	cq	53	75	7	3	-	-	7-8	7-8	220
	Catterick	1017·3	+58	NE'N	5	c	53	55	8	8	6	-	4-6	7-8	2500
	Tynemouth	1017·4	+24	NE	6	c	51	55	8	2	-	-	7-8	7-8	2000
11	St. Abbs Head	1018·2	+36	N	4	c	49	75	9	5	4	-	4-6	7-8	2500
	Leuchars	1019·7	+38	ENE	3	bc	52	65	9	8	-	-	4-6	4-6	5500
12	Renfrew (Abbots I.)	1018·6	+30	E'S	3	bc	52	55	9	8	-	-	4-6	4-6	3000
	Eskdalemuir	1017·6	+40	NE	5	bc	49	55	8	7	-	-	2-3	2-3	2500
	Point of Ayre	1017·9	+30	ENE	5	b	54	65	8	1	-	-	1	1	4000
13A	Tiree	1020·3	+28	E'N	2	b	54	65	9	-	3	-	0	Tr	-
13B	Stornoway	1022·6	+26	E	2	c	52	65	8	1	7	-	4-6	7-8	2500
15	Dalwhinnie	1020·5	+26	E	2	c	46	65	8	7	-	-	7-8	7-8	2500
	Aberdeen	1019·6	+28	N'W	2	bc pr	52	55	8	2	3	1	4-6	4-6	1900
	Wick	1021·3	+26	NE'N	3	pr	51	65	9	2	-	1	7-8	7-8	2500
16	Sumburgh	1020·9	+20	NE	3	bc	49	75	9	2	-	-	4-6	4-6	2500
17	Blacksod Point	1016·6	+28	SE	4	c	53	75	8	2	6	-	4-6	7-8	2500
18	Malin Head	1018·9	+30	E	4	bc	52	65	8	1	-	-	2-3	2-3	5700
	Aldergrove	1019·0	+34	E	3	b	55	65	8	1	-	-	1	1	2500
19	Birr Castle	1016·9	+38	SE	1	c	57	75	8	5	1	-	7-8	9+	2500
20	Valentia Obsy. †	1016·2	+18	W	3	c	60	85	8	2	-	3	2-3	9	2500
	Roches Point	1016·0	+26	NNE	2	c	60	85	8	3	3	-	4-6	7-8	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 11th (37)	Weather 13h.–18h. 11th (38)	Weather 18h. 11th to 1h. 12th (39)	Weather 1h.–7h. 12th (40)
1	London (Kew)	1020·4	+54	N'E	3	zo	52	65	6	5	-	-	4-6	4-6	2500	1	*	cmopro	cbcbczo	bczobw	bbmox
	Croydon	1019·3	+54	N	4	zo	51	92	5	2	4	-	2-3	9	2000	1	*	crorciro	cbczo	bzobmo	bmowbc
	S. Farnborough	1019·8	+32	NNE	2	bc	52	75	8	-	3	-	0	4-6	-	1	*	ropro cbc	bcc	bcbzobw	
	Boscombe Down	1020·1	+42	N'E	2	b	49	75	7	5	-	-	Tr	Tr	3000	1	*	circbc	b	bbmo	bbmobfg
	Thorney Island	1018·7	+28	N	3	bc	51	75	7	4	-	-	2-3	2-3	4000	0	*	ororobc	bc	bcb	bw
	Lympne	1018·2	+56	N'W	4	bc	49	65	8	4	-	-	4-6	4-6	2500	0	§	cromprobc	cpro oc	bcbw	bpxbcc
	Manston	1016·9	+24	N	6	c	52	65	8	7	6	-	4-6	7-8	3000	1	*	cirobmoc	cbc	cproc	cbcc
2	Shoeburyness	1018·5	+50	N'W	4	b	50	75	8	5	-	-	1	1	3500	1	*	irobcpo	cprob		bcbcc
	Felixstowe	1017·0	+54	N	5	bc	50	65	8	5	-	-	2-3	2-3	3000	1	3	bccq	cprob	b,c	cb,cpro
	Gorleston	1017·1	+40	N'W	6	cq	52	65	7	8	-	-	7-8	7-8	900	1	6	ciropro	cproq	cqy	cbc
	Mildenhall	1019·1	+60	N'W	3	c	49	75	8	5	-	-	7-8	7-8	3000	1	*	cirombcc	ccprobcc	cbcbbc	bcbwbbmo
	Cranwell	1020·6	+46	N'E	3	bc	47	65	7	5	3	-	2-3	4-6	2500	0	*	bcirocjpbc	bcc	bcmobmo	bmobmo
3	Birmingham	1021·2	+40	NE	3	c	50	65	6	5	-	-	7-8	7-8	2500	1	*	oirbc	bcc	cb	cmz
	Upper Heyford	1020·4	+50	N'E	3	c	49	75	7	5	-	-	7-8	7-8	2500	1	*	cpremoc	bcc	cbcb	bbcmo
4	Ross-on-Wye	1020·7	+32	NE'N	3	b	49	75	7	5	-	-	Tr	Tr	2500	1	*	bcprobc	cbcb	b	bmowf
5	Hartland Point	1018·9	+32	ENE	4	bc	57	65	8	4	-	-	2-3	2-3	2500	1	4	crbc	bc	bcb	bbc
	Bristol	1020·9	+30	NNE	3	zo	49	75	5	-	-	-	0	0	-	1	*	cbcc	bcbmo	bmobmo	bcmofy
	Portland Bill	1018·7	+32	N	3	bc	60	92	8	5	-	-	4-6	4-6	2500	1	3	c	cbc	bc	bbc
	Plymouth	1018·5	+32	ENE	3	c	58	75	6	4	-	-	7-8	7-8	3500	1	2	crmobcpro	bcc	cibmo	bmob
	The Lizard	1019·3	+26	N'W	1	bc	54	85	8	4	6	-	2-3	4-6	3500	0	3	roro cbc	bc	bcc	bc
	Scilly (St. Mary's)	1019·1	+24	NE'N	2	bc	56	92	8	8	4	6	2-3	4-6	1500	1	5	ciro rbc	bc	bcw	bcc
	Guernsey																				
6	Pembroke	1019·6	+20	NE	4	bc	55	75	8	-	4	-	0	2-3	-	1	1	bc	bc	bcb	bc,c
7	Holyhead (Valley)	1021·6	+34	NE'N	2	b	48	75	8	4	-	5	Tr	Tr	3000	1	2	bcbcb	bcyb	bw ✱	wbbcv
	Chester (Sealand)	1022·6	+44	N'E	1	zo	47	75	6	5	4	-	1	1	4800	0	*	cbczobcy	bcmowb	bwmoxm	bxmffFF
8	Manchester	1022·6	+42	NNE	3	zo	47	65	5	4	-	-	2-3	2-3	3000	1	*	cmoczoy	czobcybc	bmow	bmoxbfg
10	Spurn Head	1018·9	+8	NNE	5	c	50	65	6	3	-	-	7-8	7-8	4000	0	4	cq	cbc	cq	bc
	Catterick	1022·9	+26	N	3	bc	46	65	6	5	6	-	2-3	4-6	4500	1	*	ccy	bc	bcmobmow	bmoxb
	Tynemouth	1022·5	+26	NE	5	bc	50	85	7	2	-	-	4-6	4-6	2800	1	5	ciro	cbc	bcmo	bcmo
11	St. Abbs Head	1023·3	+20	NE	3	bc	48	65	9	1	4	-	4-6	4-6	2500	0	4	cbcqc	cbc	bc	bcb
	Leuchars	1023·9	+30	NNW	2	b	47	75	8	4	-	-	1	1	5100	1	*	cbc	bcprobcb	bxbcbw	bwbx
12	Renfrew (Abbots I.)	1024·0	+22	-	0	zo	48	85	5	4	-	-	2-3	2-3	3500	1	*	bbcv	vybcmo	bcbmfx	f
	Eskdalemuir	1023·9	+28	NE	1	b	40	85	8	7	-	-	1	1	2500	0	*	bcprobcy	bcyb	b	bx
	Point of Ayre	1022·9	+20	E	3	b	52	55	8	7	-	5	Tr	1	4000	1	5	cbcb	b	b	bbcc
13A	Tiree	1023·4	+14	SSW	1	b	46	85	9	1	5	-	Tr	1	3500	0	2	b	b	bc	bcbbc
13B	Stornoway	1024·4	+10	ENE	2	c	47	75	8	5	7	-	4-6	9+	2500	1	2	bcc	cbcc	c	bc
15	Dalwhinnie	1026·1	+20	E	1	bc	40	85	8	4	3	9	2-3	4-6	2500	1	*	bc	bc		bc
	Aberdeen	1024·4	+28	N'W	1	bc	45	75	6	4	-	-	2-3	2-3	2500	1	2	bcprobc	bcbmo	bzo	bcbx
	Wick	1025·1	+20	NNW	1	bc	44	85	9	4	7	-	2-3	4-6	2500	1	*	bcpr	bcprbc	bcc	cbv
16	Sumburgh	1024·5	+22	NNE	1	bc	45	75	8	8	6	-	4-6	4-6	3500	1	4	bc	bc	bbcc	c
17	Blacksod Point	1019·4	+14	SE'E	4	bc	56	75	8	4	-	9	2-3	4-6	2500	0	4	c	bc	bc	bc
18	Malin Head	1022·2	+22	E	3	bc	49	65	8	4	3	-	2-3	2-3	5700	0	3	bc	bc	bc	c
	Aldergrove	1023·3	+26	-	0	b	45	75	8	4	-	-	Tr	1	3500	1	6	bbcb	bbcb	bcw	bwcw
19	Birr Castle	1020·5	+10	NE	1	bc	52	85	8	5	-	5	2-3	4-6	2500	1	*	c	bc		c
20	Valentia Obsy. †	1019·0	+8	-	0	c	55	92	8	5	-	7	Tr	10	2500	1	1	cbcc	c	ccwc	ciro
	Roches Point	1019·9	+22	ESE	4	bc	57	85	8	5	3	5	2-3	4-6	1500	1	5	bcc	cbc	cbc ⊕	c

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/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕ Solar halo. ⌽ lunar halo. Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

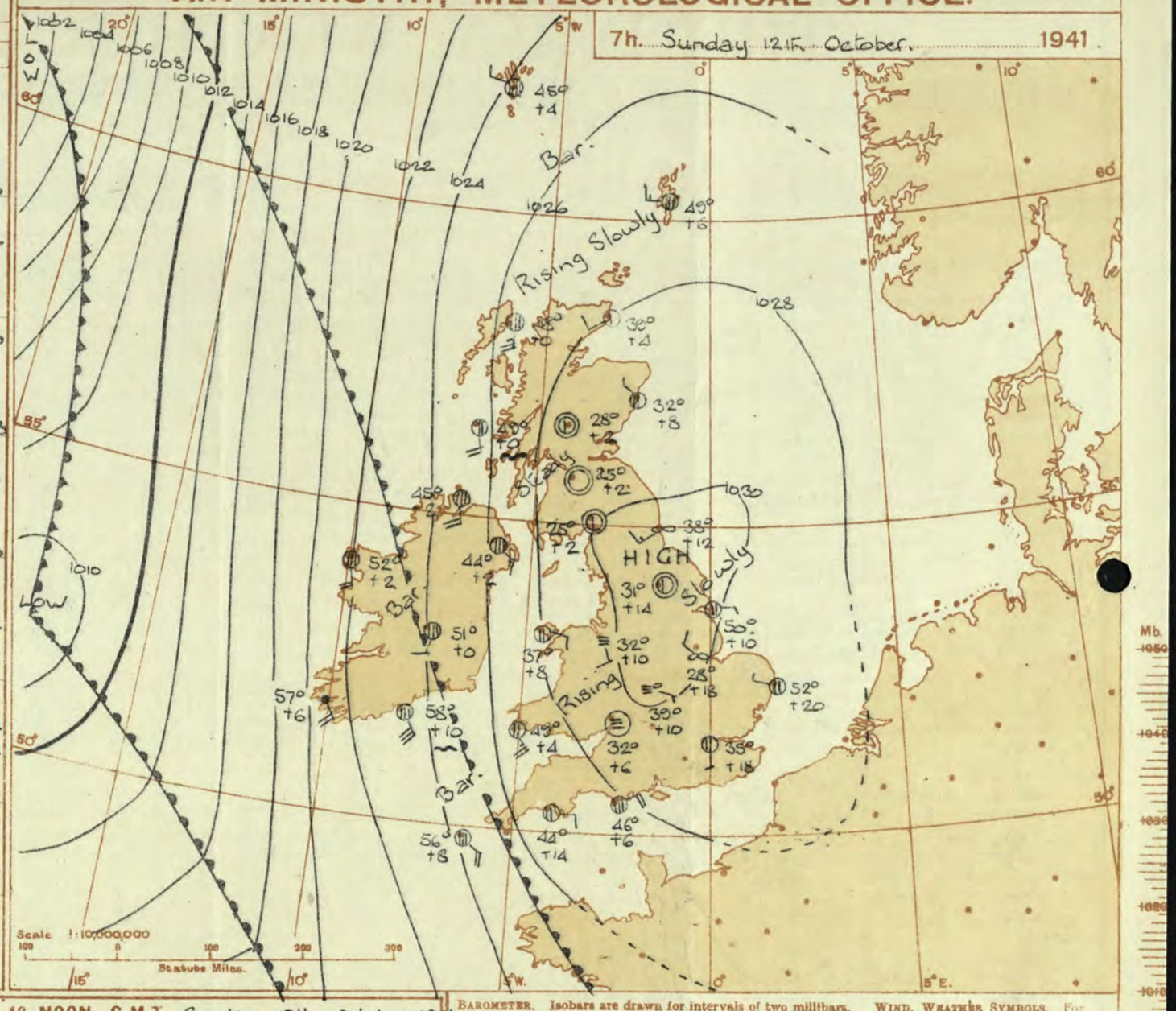
Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 11th October			18h. G.M.T.			01h. G.M.T. 12th October			07h. G.M.T.		
	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	83	02954	03485	40	01963	25213	50	00861	24161	5-	00861	24221
115	87	02944	08425							54	02944	16325
203				5-	02956	08420	50	00962	18412	54	01953	16414
206	8-	01864	02484	40	01963	02113	50	00863	02213	53	01863	00014
210	80	01953	03313	43	01963	18113	50	00962	18112	50	01961	14203
220	70	01953	07303	00	00890	10100						
230	10	00863	04103	16	00971	12112	00	00890	00000	50	01861	10304
245	2-	81955	04485	70	00962	04282	50	00961	24101	50	00961	24112
260	7-	02965	02485	7-	01864	04214	00	00790	00010	00	00890	00002
278	7810	00862	08402				03	00890	13201	50	01762	12213
279												
285	70	01964	38414	50	00962	05212	00	00890	06100	50	00962	04203
288				10	00852	02412						
575	77	02855	35526	46	02755	01425	00	08490	16110	00	41690	18140
575				50	01854	10214	50	00751	08201	53	05664	10105
301	40	01853	39523				00	00790	05200	00	05590	07203
321	84	81854	34565	46	01305	21648	00	05690	32100	04	08490	28102
299				8-	02746	32716	5-	01753	32313	5-	01753	00013
292	14	01854	34514	40	01864	32314	00	08490	00000	53	05671	28142
310												
614												
6148	-	81855	38525	6-	02765	02395	03	05690	02202	54	05562	00003
333	4-	01964	06414				00	05690	02200	00	01990	02115
334	--	02645	10416	--	02644	10215						
340	26	00752	02353	26	00790	02112	00	05590	00000	00	08490	00004
136	2-	25846	* *	8-	02855	32585				53	00962	04413
336												
350	8-	25856	68486	80	02765	32425	00	00790	30200	04	04790	04102
368	26	01853	32413	40	05661	04301	00	05690	04200	20	05651	05204
379	23	01754	02484	53	01764	32414	03	05690	32303	00	01790	02204
390	83	01744	61525	80	01744	30314	04	00790	30301	54	00762	30202
382	86	01854	32414	44	02865	32325				04	04690	00002
438	8-	02755	30415							84	01753	06414
430	10	01853	30563	40	00861	32311	00	00790	02300	50	01863	02103
409	8-	02745	31365	20	00741	02213	50	02662	10518	57	01751	43413

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 12th October. 1941.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 12th October, 1941.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light variable to S.E. wind. Fine. Some local fog in industrial areas around dawn tomorrow. Rather cool with local ground frost at night.
5 S.W. England 6 South Wales ...	Light to moderate S.E. to S. wind. Fair at first. Slight local rain later. Rather cool to average temperature.
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	Light to moderate S. or S.W. winds. Fine at first, but cloud increasing in the west. Some local fog in industrial areas around dawn tomorrow. Rather cool with local ground frost at night.
17 N.W. Ireland 18 N. E. Ireland	Moderate to fresh southerly winds. Mainly fair at first, but occasional rain spreading from S.W. Average temperature.
19 S. E. Ireland	As 6-16.
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.

An anticyclone centred over England is moving rather slowly southeastwards, while a trough of low pressure is slowly approaching our W. and S.W. districts from the Atlantic. Weather will be fine, and rather cool in most districts with local ground frost at night, but some rain will spread into our S.W. and W. districts.

FURTHER OUTLOOK.

Fair in the east. Occasional rain in the west.

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. 9269/4120. No. 9/76. D. 6034. 6p. 948. 3300. 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.)

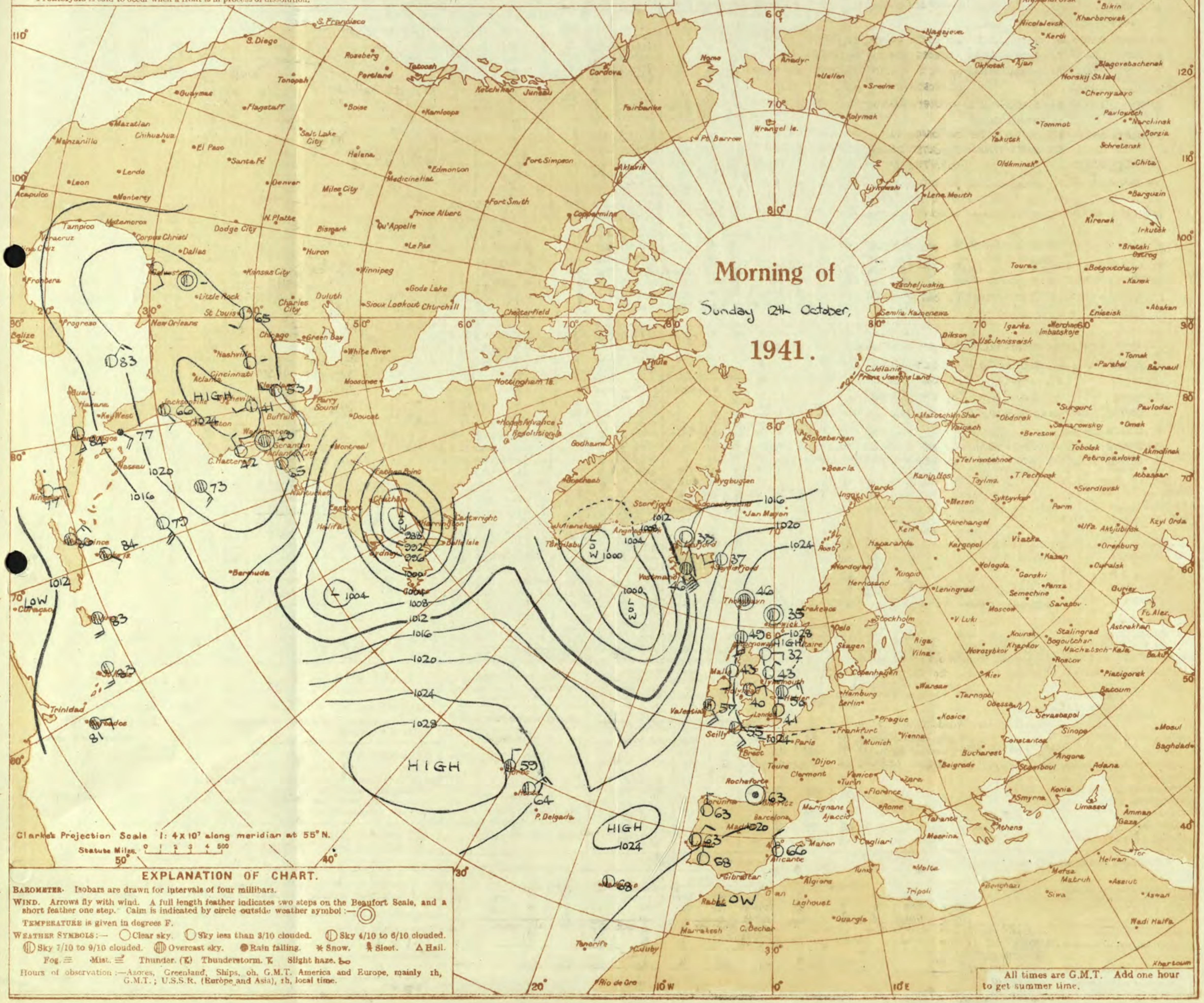
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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. (K) Thunderstorm. K Slight haze.

Hours of observation :—Azores, Greenland, Ships, 0h, G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 12th October 1941.

No. 29,179.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1026·4	+22	N	1	b	41	92	6	-	-	-	0	0	-
	S. Farnborough	226	1027·1	+26	—	0	b	39	92	7	-	-	-	0	0	-
	Boscombe Down	417	1026·9	+20	NE'N	3	b	41	85	7	-	-	-	0	0	-
	Thorney Island	10	1026·1	+18	NNE	2	b	41	92	7	-	-	-	0	0	-
	Lympne	346	1025·2	+22	N	2	bc	40	92	7	5	-	-	2-3	2-3	4000
	Manston	154	1025·0	+26	NE	3	c	49	65	7	7	-	-	7-8	7-8	5000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1024·9	+22	N	3	c	46	75	7	5	-	-	9+	9+	3500
	Gorleston	5	1025·6	+30	NE	4	cq	53	55	6	8	-	-	10	10	1500
	Mildenhall	19	1026·9	+26	N'E	2	bc	38	97	7	-	7	-	0	2-3	-
	Cranwell	240	1027·4	+16	N	3	zo	42	85	6	5	-	-	1	1	3500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1027·1	+20	N	2	b	40	85	7	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1025·2	+16	ENE	4	b	47	75	8	-	-	-	0	0	-
	Bristol	209	1027·5	-22	—	0	zo	39	92	6	-	-	-	0	0	-
	Portland Bill	32	1026·0	+26	NE	4	bc	54	92	8	2	-	-	4-6	4-6	4000
	Plymouth	82	1025·3	+30	ENE	3	zo	49	75	6	5		-	Tr	Tr	3500
	The Lizard	240	1024·6	+20	ESE	5	c	55	75	8	8	2	-	7-8	9	1500
	Scilly (St. Mary's)	163	1023·4	+12	SE'E	4	bc	55	92	7	5	-	3	2-3	4-6	1500
	Guernsey	175														
6	Pembroke	142	1026·1	+18	E	5	b	49	85	8	-	-	-	0	0	-
7	Holyhead (Valley)	26	1026·6	+18	ENE	2	b	40	85	7	-	-	-	0	0	-
	Chester (Sealand)	16	1028·1	+18	SE	1	m	36	92	4	-	-	-	0	0	-
8	Manchester	235	1028·5	+18	E'N	1	zo	36	92	6	-	-	-	0	0	-
10	Spurn Head	29	1026·9	+12	NE	3	bc	50	65	7	1	-	-	4-6	4-6	4000
	Catterick	175	1028·5	+16	NW'W	2	zo	37	92	6	-	-	-	0	0	-
	Tynemouth	108	1028·3	+14	NNE	2	zo	43	75	5	-	4	-	0	1	-
11	St. Abbs Head	280	1027·2	+10	S	2	bc	45	75	8	4	4	-	2-3	2-3	2500
	Leuchars	36	1027·9	+14	WNW	1	b	37	92	7	5	-	-	Tr	Tr	4000
12	Renfrew (Abbots I.)	19	1028·7	+18	—	0	bcfr	32	97	3	-	-	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1027·3	+14	SE'S	4	b	49	55	8	1	-	-	Tr	Tr	3000
13A	Tiree	22	1024·7	+8	SE'S	3	bc	46	92	8	3	3	*	2-3	2-3	3500
13B	Stornoway	80	1025·8	+6	SSE	3	c	49	75	7	5	7	-	4-6	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	1027·7	+6	W	1	c	41	85	8	5	-	-	9+	9+	2500
16	Sumburgh	30	1026·3	+2	W	1	c	43	85	8	5	-	-	9	9	3000
17	Blacksod Point	18	1021·6	0	SSE	5		52	85	8	4	-	6	2-3	7-8	2500
18	Malin Head	84	1025·3	+6	S'E	2	b	43	75	8	-	-	-	0	0	-
	Aldergrove	268	1027·0	+10	SE	1	c	43	85	7	5	3	-	4-6	7-8	3000
19	Birr Castle	173														
20	Valentia Obsy.	30	1021·7	+6	E'S	4	c	57	85	8	5	-	7	7-8	10	4000
	Roches Point	22	1023·5	+6	ESE	5	bcjp	55	75	8	5	-	6	2-3	4-6	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1030·0	+20	—	0	zo	38	92	5	5	-	1	1	2-3	2500	1	*
Croydon	1029·4	+18	S	1	bc	35	97	6	5	-	-	2-3	2-3	3000	1	*
S. Farnborough	1030·2	+20	—	0	fg	34	97	6	-	-	6	0	Tr	-	1	*
Boscombe Down	1029·3	+10	NE'E	1	fg	37	92	7	-	-	4	0	2-3	-	1	*
Thorney Island	1028·9	+18	N'E	2	b	39	92	7	5	-	6	Tr	1	4000	0	*
Lympne	1029·2	+22	ESE	1	c	45	92	8	5	-	-	7-8	7-8	3200	0	§3
Manston	1029·4	+24	S	2	c	48	65	8	8	-	-	9+	9+	1800	0	*
Shoeburyness	1029·1	+18	N	2	c	43	92	8	5	-	-	7-8	7-8	4800	1	*
Felixstowe	1028·8	+22	N	2	c/pr	45	85	7	8	-	-	7-8	7-8	3000	1	2
Gorleston	1029·0	+20	NNW	1	bc	52	55	7	8	-	-	4-6	4-6	2000	0	4
Mildenhall	1030·5	+22	—	0	zo	32	97	6	5	-	-	1	1	4000	0	*
Cranwell	1020·4	+18	NW'W	2	zo	28	92	6	5	-	-	7-8	7-8	3500	1	*
Birmingham	1030·3	+10	ESE	1	m	49	92	4	-	-	1	0	1	-	1	*
Upper Heyford	1029·7	+14	NE'N	2	zo	36	92	6	-	4	2	0	2-3	-	1	*
Ross-on-Wye	1029·2	+6	—	0	bF+	32	97	1	-	-	-	0	0	-	1	*
Hartland Point	1026·8	+6	SE	3	bc	42	85	8	-	-	5	0	2-3	-	1	4
Bristol	1029·7	+8	—	0	zo	35	97	6	-	4	5	0	2-3	-	1	*
Portland Bill	1027·7	+6	NE	4	c	46	92	8	4	4	-	4-6	7-8	4000	1	4
Plymouth	1027·3	+14	E	2	bc	44	85	8	4	5	4	Tr	2-3	4000	0	3
The Lizard	1026·2	+10	E	5	bc	54	75	8	8	6	-	4-6	4-6	2500	0	4
Scilly (St. Mary's)	1024·6	+8	SE	4	c	56	85	8	5	2	-	4-6	9+	1200	1	4
Guernsey																
Pembroke	1027·4	+4	SE'E	5	c	49	75	8	1	7	-	1	7-8	3500	1	3
Holyhead (Valley)	1028·2	+8	ESE	2	bc	37	85	9	-	-	2	0	4-6	-	0	1
Chester (Sealand)	1029·7	+10	SE'S	2	bcf-	32	97	1	-	-	4	0	2-3	-	0	*
Manchester	1030·4	+10	—	0	fg	33	97	7	-	-	-	0	0	-	1	*
Spurn Head	1029·6	+10	E	1	bc	50	55	7	1	-	-	2-3	2-3	5700	0	1
Catterick	1031·3	+14	—	0	b	31	97	7	-	-	1	0	1	-	3	*
Tynemouth	1030·1	+12	SW	3	zo	38	85	6	2	-	1	2-3	2-3	2500	1	4
St. Abbs Head	1029·3	+14	SW	2	b	42	75	9	4	4	5	Tr	1	2500	0	3
Leuchars	1029·3	+8	NW	1	bc	35	97	8	5	-	5	Tr	2-3	3500	1	*
Renfrew (Abbots I.)	1029·5	+2	—	0	bf-	28	97	2	-	-	9	0	1	-	1	*
Eskdalemuir	1030·7	+2	—	0	b	25	92	8	-	-	1	0	1	-	3	
Point of Ayre	1028·6	+4	S'W	4	c	50	65	8	5	4	5	4-6	7-8	4000	0	4
Tiree	1024·8	0	SSE	4	bc	49	85	8	5	-	-	4-6	4-6	2500	0	5
Stornoway	1026·6	0	S	5	c	48	75	8	5	7	5	4-6	9	2500	0	3
Dalwhinnie	1029·5	+2	—	0	b	28	92	8	-	-	5	0	Tr	-	3	*
Aberdeen	1029·6	+8	NW	1	bc	32	92	7	5	-	1	2-3	2-3	4500	1	1
Wick	1027·9	+4	SW	2	b	39	92	9	5	-	-	Tr	Tr	3500	1	*
Sumburgh	1027·3	+6	W	3	c	49	65	9	5	3	-	9	9+	2500	1	3
Blacksod Point	1021·5	+2	SSE	4	c	52	65	8	-	7	-	0	7-8	-	0	3
Malin Head	1024·5	-2	S'E	4	c	45	85	8	4	9	-	4-6	7-8	2500	9	3
Aldergrove	1027·2	+2	SE	3	c	44	92	7	5	3	9	2-3	7-8	2000	1	*
Birr Castle	1023·9	0	SSW	2	c	51	85	8	5	3	-	4-6	9	2500	1	*
Valentia Obsy.	1021·6	+6	SE'S	4	ir	57	85	8	6	2	-	1	10	2500	1	4
Roches Point	1023·5	+10	SE'S	6	c	58	85	8	5	-	-	9+	9+	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 11th. Hrs. (36)
London (Kew)	57	39	27	0·2	Tr	3·0
Croydon	57	34	32	0·1	-	3·0
S. Farnborough	57	32	25	-	-	4·4
Boscombe Down	59	34	30	0·3	Tr	5·6
Thorney Island	61	37	29	1	Tr	*
Lympne	57	37	30	1	-	3·3
Manston	57	47	35	0·1	0·1	2·9
Shoeburyness	58	41	32	0·1	-	5·0
Felixstowe	56	43	39	Tr	Tr	2·4
Gorleston	54	51	45	1	-	*
Mildenhall	57	31	24	0·2	Tr	3·5
Cranwell	55	37	34	0·1	-	3·7
Birmingham	56	36	24	1	-	3·7
Upper Heyford	55	35	31	0·3	-	*
Ross-on-Wye	57	31	29	-	-	4·0
Hartland Point	60	42	40	3	-	6·3
Bristol	60	33	23	-	-	5·0
Portland Bill	61	44	*	3	-	*
Plymouth	63	43	40	10	-	5·9
The Lizard	63	53	*	1	-	5·4
Scilly (St. Mary's)	62	52	*	2	-	5·8
Guernsey						
Pembroke	58	47	*	-	-	7·9
Holyhead (Valley)	57	35	31	Tr	-	*
Chester (Sealand)	57	31	31		-	3·7
Manchester	54	32	29	-	-	*
Spurn Head	54	47	*	Tr	-	3·4
Catterick	53	42	*	Tr	4	
Tynemouth	52	38	32	0·2	-	*
St. Abbs Head	49	40	*	-	-	*
Leuchars	55	35	29	0·1	-	5·3
Renfrew (Abbots I.)	55	27	22	-	-	7·8
Eskdalemuir	51	25	16	Tr	-	7·4
Point of Ayre	54	47	*	-	-	6·3
Tiree	56	42	*	-	-	10·0
Stornoway	52	46	*	-	-	8·6
Dalwhinnie	48	25	15	Tr	-	5·6
Aberdeen	52	32	28	Tr	-	7·4
Wick	52	39	31	Tr	-	*
Sumburgh	50	38	25	Tr	-	6·5
Blacksod Point	60	47	*	-	-	*
Malin Head	53	40	*	-	-	7·5
Aldergrove	57	38	34	-	Tr	9·6
Birr Castle	60	45	41	-	-	2·3
Valentia Obsy.	61	55	49	-	Tr	4·7
Roches Point	62	55	*	-	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cm₀prc	cbcbcz₀	bcz₀bcwm₀	57	39	27	0·2	Tr	3·0	*	*	
Croydon	217	crorcr₀	cbcz₀	bz₀bmdw	57	34	32	0·1	-	3·0	*	*	5
Greenwich (Royal Observatory)	149	c	cp₀bc	bcbxm₀	56	37	25	Tr	Tr	2·1			6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	58	42	39	—			69	73	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	c	c	*	57	39	35	-	-	*	*	81	*
Kensington	80	opbc	bc	*	58	39	34	0·2	-		67	73	*
Hampstead Observatory	450	bc	bc •	bc	55	40	37	-	-		*	72	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
Min. 40·1 from 9-16h on 11th			
0·1 rest of period -			

FOREIGN OBSERVATIONS.

Evening of 11th October — Morning of 12th October

Stations	Evening Barom. mb.	Evening Wind Direc.	Evening Wind Force	Evening Weather	Evening Temp. °F.	Morning Barom. mb.	Morning Wind Direc.	Morning Wind Force	Morning Weather	Morning Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1018·7	ENE	3	c	48	1008·0	SE	6	rr	47	*	*	*	*
Lisbon (18h and 07h)	1019·0	NNW	2	b	70	1019·8	N	1	o	63	81	61	-	-
¶Madrid (18h and 07h)						906·8	*	*	b	55		*		-
Cairo (Heliopolis) (18h and 06h)						1020·3	NE	2	b	67		58		-
Toronto (13h and 01h)														
Washington (13h and 01h)						*	WSW	5	b	48	65	49		*

¶Pressure at 1,600 dynamic metres level. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6¼ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30—Code for State of Sea.

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Monday 13th October 1941.

No 29180

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

District.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1030·7	−4	ESE	2	z_o	57	55	6	8	–	5	4-6	4-6	2500
	Croydon	1030·1	0	ESE	2	c	53	45	7	2	–	1	7-8	7-8	2500
	S. Farnborough	1030·5	−2	E	2	c	53	65	8	7	–	8	4-6	7-8	3000
	Boscombe Down	1029·8	−4	SE's	3	c	55	65	7	7	–	–	9	9	3000
	Thorney Island	1030·3	+2	ESE	4	c	56	65	9	2	6	–	7-8	7-8	2500
	Lympne	1031·1	+4	SE	2	c	55	65	8	4	2	–	7-8	7-8	2500
	Manston	1031·6	+2	SSE	2	bc	54	55	8	7	–	–	4-6	4-6	3500
2	Shoeburyness	1030·8	0	SE	1	bc	57	55	8	8	–	–	2-3	2-3	7200
	Felixstowe	1030·8	+2	S'W	3	c	53	65	8	8	–	–	7-8	9+	3000
	Gorleston	1032·1	+10	NEN	2	bc	56	55	8	1	–	–	2-3	2-3	4000
	Mildenhall	1031·2	−2	–	0	bc	57	65	9	1	–	–	4-6	4-6	4000
	Cranwell	1031·0	−2	SE'S	4	bc	55	55	8	1	–	1	1	2-3	2500
3	Birmingham	1030·3	−2	S	2	bc	54	55	8	7	–	1	4-6	4-6	4000
	Upper Heyford	1030·0	−4	S	3	bc	57	45	8	1	–	5	4-6	4-6	3000
4	Ross-on-Wye	1029·3	−4	S	3	bc	57	55	8	1	4	9	Tr	2-3	4000
5	Hartland Point	1028·0	−2	SSE	2	c	55	75	8	5	4	–	4-6	7-8	2500
	Bristol	1029·5	−12	ESE	2	bc	57	55	7	1	3	9	Tr	2-3	2500
	Portland Bill	1028·8	−6	SE	4	c	56	92	8	2	4	–	4-6	10	4000
	Plymouth	1027·9	−6	SE	3	c	57	65	8	1	3	2	2-3	7-8	3500
	The Lizard	1026·8	−4	SE	5	c	60	65	8	8	6	–	7-8	7-8	2500
	Scilly (St. Mary's)	1026·3	+4	SSE	5	bc	53	65	8	5	4	4	1	4-6	1500
	Guernsey														
6	Pembroke	1028·7	+8	SE	4	c	55	65	8	–	7	–	0	7-8	–
7	Holyhead (Valley)	1028·7	−2	S'E	4	c	55	55	9	1	–	8	1	7-8	3000
	Chester (Sealand)	1029·7	−10	SSE	3	z_o	55	55	6	1	4	–	1	2-3	2000
8	Manchester	1030·3	−8	SE's	3	bc	55	45	7	1	–	9	Tr	4-6	3000
10	Spurn Head	1032·0	0	SSE	2	bc	54	75	7	1	–	–	2-3	2-3	5700
	Catterick	1030·3	−10	SSE	3	bc	54	55	8	5	6	–	2-3	4-6	4500
	Tynemouth	1030·7	+6	SSW	2	z_o	54	65	6	2	–	–	4-6	4-6	3200
11	St. Abbs Head	1029·5	−4	SSW	3	bc	52	65	9	4	4	5	1	2-3	2500
	Leuchars	1028·9	−8	SW	2	bc	53	55	7	8	–	1	2-3	2-3	5500
12	Renfrew (Abbotsl.)	1028·9	−10	S'E	2	z_o	52	65	5	8	–	–	9	9	3000
	Eskdalemuir	1029·4	0	SWS	3	c	50	55	8	7	–	8	1	9	4000
	Point of Ayre	1028·8	0	SSW	4	bc	57	55	8	1	4	6	2-3	4-6	4000
13A	Tiree	1025·0	0	SSE	4	c	54	85	8	5	3	–	4-6	7-8	2500
13B	Stornoway	1026·2	−6	S	5	c	53	75	8	5	7	–	4-6	9+	2500
15	Dalwhinnie	1028·7	−2	SSW	2	bc	48	65	8	1	6	2	Tr	4-6	2500
	Aberdeen	1028·3	−10	SWS	3	bc	51	55	8	1	–	8	Tr	2-3	2500
	Wick	1027·5	−6	S	2	bc	54	65	9	5	–	2	2-3	4-6	2500
16	Sumburgh	1027·1	−4	SW'W	3	c	50	65	9	5	–	–	10	10	3500
17	Blacksod Point	1024·7	−4	SE	4	c/r	57	92	7	8	–	–	10	10	1500
18	Malin Head	1024·5	−8	S'E	5	c	55	75	7	9	–	–	4-6	7-8	2500
	Aldergrove	1027·2	−2	SSE	3	c	55	75	7	5	3	2	4-6	9	4500
19	Birr Castle	1024·7	0	SSE	4	c	56	85	8	5	–	–	10	10	4000
20	Valentia Obsy. †	1022·0	−2	SE'S	4	d.do	59	92	5	5	2	–	9	10	1500
	Roches Point	1024·6	0	SSE	6	c/r	59	85	8	6	2	–	7-8	9+	1500

OBSERVATIONS at 18h. G.M.T. 12th October

District.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	1031·1	+4	SSW	2	z_o	50	85	5	5	–	–	2-3	2-3	2500	1	*
	1030·7	+6	SSE	1	z_o	48	85	5	4	4	–	Tr	1	3000	1	*
	1031·0	+6	S	2	z_o	48	85	6	4	–	1	Tr	1	3000	1	*
	1030·7	+6	SE's	3	bc	45	85	7	–	6	2	0	2-3	–	0	*
	1030·8	+2	ESE	2	bc	50	75	7	1	4	–	1	2-3	4000	0	*
	1031·2	0	–	0	b	43	92	8	1	–	–	Tr	Tr	3500	0	§
	1031·8	+4	–	0	b	45	75	8	5	–	1	Tr	Tr	5000	1	*
2	1030·9	0	SSE	2	b	52	75	8	–	–	–	0	0	–	1	*
	1030·6	0	SSW	2	b	51	65	8	–	4	–	0	Tr	–	1	*
	1030·9	−2	SE'E	1	bc	53	55	8	1	–	–	2-3	2-3	3000	0	4
	1031·2	+2	SSE	1	b	49	75	7	5	–	–	1	1	4000	0	*
	1030·8	−2	S	1	b	45	85	7	–	–	1	0	Tr	–	0	*
3	1030·2	0	SSE	1	b	50	97	6	–	4	–	0	1	–	1	*
	1030·3	+2	ESE	1	z_o	51	75	6	4	4	–	1	2-3	3500	1	*
4	1029·4	0	SSE	2	bc	51	85	7	5	–	–	4-6	4-6	4000	1	*
5	1028·2	+2	SE	2	c	53	75	8	5	–	–	9+	9+	2500	0	3
	1030·0	+4	SSE	2	c	53	75	7	5	–	–	9+	9+	4000	0	*
	1029·4	+4	E	4	bc	55	92	8	2	4	–	4-6	4-6	4000	1	4
	1027·3	+2	SE	3	c	55	75	8	7	3	2	4-6	7-8	3000	0	3
	1026·3	−4	SE	5	c	54	85	8	8	6	–	7-8	7-8	1500	0	4
	1025·8	−2	SE'S	4	c	57	75	8	5	7	2	1	9+	1500	1	4
6	1028·0	−2	S'W	5	c	56	65	8	8	7	–	4-6	9+	2500	1	3
7	1028·0	−2	SSW	3	c	53	65	8	1	3	6	Tr	9+	2000	0	3
	1029·2	−2	SSE	1	z_o	48	75	6	–	5	1	0	2-3	–	0	*
8	1030·0	0	SSE	2	z_o	50	65	6	–	4	1	0	2-3	–	1	*
10	1031·1	−2	S	2	b	52	65	7	–	4	–	Tr	Tr	–	0	3
	1029·9	−2	SSW	1	bcjf	44	85	5	–	–	1	0	2-3	–	0	*
	1023·6	−2	SW	2	m	50	75	4	5	–	–	4-6	4-6	2200	1	3
11	1028·7	0	SW	2	bc	47	75	8	4	4	–	2-3	2-3	2500	0	2
	1027·9	−4	SW	2	c	48	85	7	5	–	–	9	9	4000	1	*
12	1028·0	−4	SE's	2	m	48	75	4	5	–	6	4-6	4-6	3500	1	*
	1028·9	−2	SWW	2	bc	43	75	6	5	–	–	2-3	2-3	2500	1	*
	1028·6	0	SSW	2	c	47	75	8	–	4	5	0	7-8	–	0	3
13A	1024·2	−4	S'E	4	0	54	85	7	5	–	–	10	10	1800	0	5
13B	1024·2	−4	S	5	c	53	92	8	5	7	–	7-8	10	2000	0	3
15	1023·2	−2	SSW	2	c	41	92	7	–	4	2	0	7-8	–	0	*
	1027·2	−4	SW	2	b	47	75	6	–	–	2	0	1	–	1	3
	1026·4	−6	–	0	z_o	45	75	6	–	7	2	0	4-6	–	0	*
16	1026·5	−2	W	2	c	49	65	9	5	–	–	9+	9+	3500	1	*
17	1021·4	−2	SE	2	c/r	58	92	8	6	–	–	10	10	1500	0	2
18	1023·6	−6	S'E	4	c	53	75	8	8	–	–	9	9	2500	0	2
	1026·8	−2	SE	3	c	51	85	7	5	7	–	7-8	9+	2500	1	*
19	1024·4	+2	SSE	3	c	56	92	8	5	1	–	7-8	10	2500	1	*
20	1021·6	−2	SSE	4	ir.	58	97	5	5	–	–	10	10	1500	1	
	1024·6	−2	S'E	6	c	58	75	8	6	1	–	7-8	9+	1500	1	5

PAST 24 HOURS.

District.	Weather. 7h.—13h. 12th (37)	Weather. 13h.—18h. 12th (38)	Weather. 18h. 12th to 1h. 13th. (39)	Weather. 1h.—7h. 13th (40)
1	bmbczoy	bcymow	bcmdbffw	bbcffmox
	bzobcy	bcybczo	bmow	bmowbcmo
	bmobc	bcbmo	bmomwx	bbcxmo
	bbc	cbc	cmo	bcmobc
	bccprob	cbcb	bbcwbw	bcw
	bbc	bcb	bwx	bxb
	cprobcy	cbcbyb	bw bcb	obc
2	cbcy	bcyb	bw	bwbmox
	b,c,v	cprob	bbmo,w	bmwmow
	bcy	bcy	bcyb	bcw
	bmoxbbc	bcb	bmobmw	b,wbxbcy
	b	bbcyb	bmow	bmo,cmo
3	b	bcb	b	b,c
	bcmobc	bcbybczo	bjfzobczo	bcmo,cmo
4	Fbfmzb	by bcc	bccb	bwbc
5	bc	c	cbcc	c
	bcfgzobcy	bcycc	bmo	bcmow
	c	c	c	c
	bc	cbcc	cb,c	c
	c	bcc	bc	c
	bc	bcc	c	c
6	bc	c	bcyq	c
7	c	bcyc	c	cy
	bczoy	by zo	bcmowbff	cffwm
8	bcy	bcybzo	bzobcmo	bccmo
10	bcb	bcb	b	bc
	bcbcy	bc	bmxbfx	bfxbfw
	bcffbc	bc	bcbm	bbccm
11	bbc	bc	bc	bcc
	bxbby	bybcc	cbmobcmo	bcmocmo
12	bffxcmo	czobcbcz	bccfm	cmowcm
	bbccy	bccbcbf	bbcc	cmo
	cbc	bcc	cbcb	bcc
13A	bcc	co	circ	cirdir
13B	c	c		c
15	bc	bc		bco
	bzoby	bybzo	bzo	bbccmox
	bcc	bcbczo	bcc	cwc
16	c	c	c	c
17	ir.c	rr	ir.	ir.
18	c	c	cprocdd,c	cpric
	cwc	c	czoc	cirorrm
19	c	c		circ
20	cirodddo	ciD cir.	clrodrdr	crrdodo
	ir.c	c	rr	cir.

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

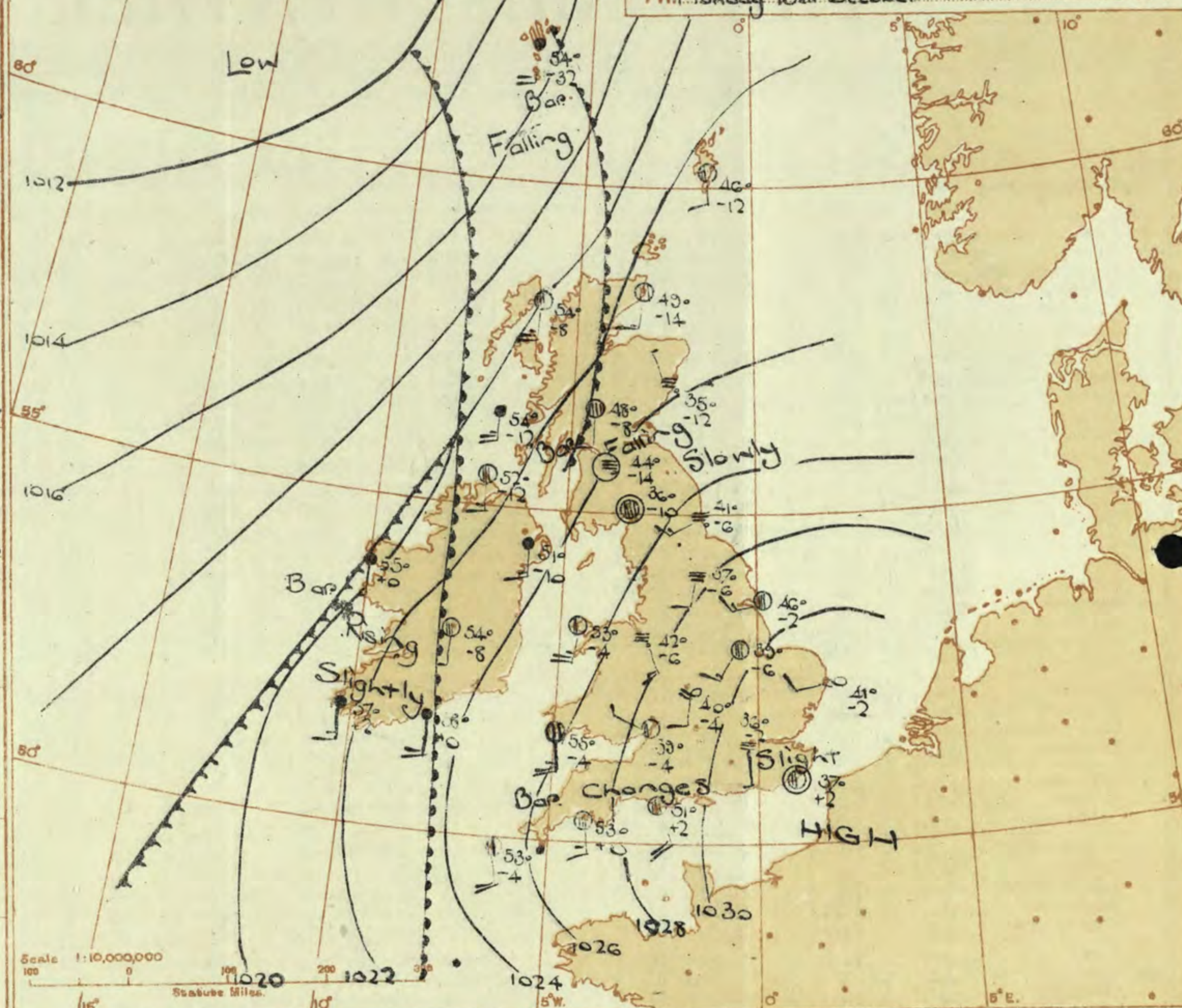
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

Abridged observations of additional stations in the AVIATION WEATHER CODE												
	13h. G.M.T. 12th October			...18h. G.M.T.			01h. G.M.T. 13th October			...07h. G.M.T.		
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	5-	02965	18125	50	05662	13114	5-	02876	11116	53	02655	14327
115	54	02954	16225	52	02964	16227	52	02844	16227	52	81844	20287
203	04	01890	16514				51	02835	16528	6-	64738	16528
206	00	01990	24214	03	02890	00025	53	02764	00025	55	05654	00028
210	00	01990	19103	07	02890	12218	03	02790	00015	03	02790	12227
220				52	03746	15428						
230	50	01862	13214	5-	02766	15126	5-	02767	14227	57	22753	14168
245	10	01851	20414	5-	05657	20317	00	05690	26218	57	05675	20127
260	10	01762	18214	5-	81763	18124	50	05661	08115	54	02751	00027
278	54	02863	15315	57	02866	14217	51	02364	10328	57	22854	18268
279	40	01961	18314	57	05663	18213	03	05590	00014	51	05557	0?228
285										5-	05538	32228
288	10	01853	18213	00	17790	14214	00	05590	00000	00	45290	18145
575	52	02757	11328	52	02857	12328	5-	21648	13368	62	58647	14368
301	10	03652	14414	03	08490	13314	00	08490	10115	01	05990	15327
321	10	00863	14242	00	00790	14100	00	43390	15140	07	04890	22215
299	50	00851	16201	00	00790	20200	00	00790	20200	5-	08446	20216
292	10	01852	14314	00	05690	14202	03	04490	00015	5-	45268	12145
310										--	01645	26415
614	10	02765	12215	04	08490	00001	50	45364	00044	04	45390	00043
333	03	01990	14414	15	02852	16216	5-	02747	18517	54	02954	16526
334										--	02645	20316
340	14	01764	14315	04	00790	13202	00	08490	17311	07	05590	14314
136	10	01963	00005	50	00971	05111	00	05690	19200	00	05690	21114
336										54	01762	04315
350	20	01754	12315	00	08490	12210	00	05590	00000	00	05690	14204
368				5-	02768	10428	57	05651	10314	57	02754	12127
379	10	01853	16214	50	01853	12213	00	00790	14202	04	01890	14215
390	83	02854	04125	50	05661	12111	00	47190	00040	04	41490	00044
382	17	01763	12304	40	01863	00013	00	05690	00001	04	04690	00014
435	98	01850	14313							58	02863	16315
430	8-	02966	12416				40	00762	06212	40	01761	02104
400		02856	13427	53	02846	14328	07	01790	14313	57	02884	15227

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 13th October 1941.



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

FRONTS or boundaries between masses of air of different 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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 13th October
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light to moderate Southeast to South wind; mainly fair, but with local fog at night; warm during the day but cold at night, with slight local frost.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Moderate South wind; fair early, becoming cloudy with light local rain later; average temperature.
8 N.W. England	As 12-20
9 N. Midlands ...	As 4-7
10 N.E. England 11 S.E. Scotland	Moderate south wind; fair at first becoming cloudy with light rain later; 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 19 S. E. Ireland 20 S. W. Ireland	Moderate to fresh south wind, strong locally on coasts; occasional rain; average temperature

GENERAL INFERENCE.

An anticyclone centred to the Southeast of the British Isles is slowly receding Southeast whilst a deep depression to the South of Greenland is moving northeast. Weather will continue fair in the Southeast but in the Northwest it will be unsettled with occasional rain. It will become generally warmer than of late.

FURTHER OUTLOOK.

Fair and warmer in the Southeast.
Unsettled with rain in the Northwest.

Forecasts issued at 10.30h.

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

H.M.S.O. Press, Meteorological Office Dunstable. 0268/4120 Wt.8176 D.6034 Gp.340 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

Monday 13th October,

1941.

Clarke's Projection Scale 1: 4X10⁷ along meridian at 55°N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 13th October 1941

No. 29180

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1030·9	−4	SSE	1	b	36	97	6	–	–	–	0	0	–
	S. Farnborough	226	1031·1	−8	–	0	m	36	97	4	–	–	–	0	0	–
	Boscombe Down	417	1030·7	−6	E'S	3	zo	38	97	6	–	6	–	0	1	–
	Thorney Island	10	1030·8	−6	NE	2	b	44	85	7	4	–	–	1	1	2500
	Lympne ...	346	1031·4	−6	–	0	b	38	97	8	–	–	–	0	0	–
	Manston ...	154	1031·8	−4	SW	1	b	41	85	7	–	–	–	0	0	–
2	Shoeburyness ...	11	1031·8	0	SE	1	b	41	92	7	*	*	*	0	0	*
	Felixstowe ...	15	1030·8	−4	S'W	2	zo	47	85	5	–	–	–	0	0	–
	Gorleston ...	5	1030·6	−4	SW'W	2	b	45	85	7	–	–	–	0	0	–
	Mildenhall ...	19	1031·3	−2	SSW	2	m	38	97	4	–	–	–	0	0	–
	Cranwell ...	240	1030·6	−2	SW	3	zo	42	92	5	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1030·8	−4	–	0	zo	40	97	5	–	–	5	0	4-6	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027·8	−6	E	2	c	48	75	8	5	–	8	1	7-8	4000
	Bristol ...	209	1028·2	−6	–	0	zo	44	92	6	–	7	–	0	4-6	–
	Portland Bill ...	32	1029·0	−4	SE	4	c	54	92	8	5	–	–	7-8	7-8	4000
	Plymouth ...	82	1027·9	0	SE	2	c	49	75	7	5	–	–	9+	9+	2000
	The Lizard ...	240	1026·6	−6	SSE	5	bc	54	75	8	4	–	–	4-6	4-6	2500
	Scilly (St.Mary's)	163	1025·8	−6	SSE	*	c	55	85	8	5	3	–	4-6	9	1500
	Guernsey ...	175														
6	Pembroke ...	142	1027·6	−2	SSE	6	bcq	55	75	8	1	1	–	2-3	2-3	4000
7	Holyhead(Valley)	26	1027·3	−4	S	5	c	55	75	7	5	7	–	4-6	9+	2500
	Chester(Sealand)	16	1029·2	+2	SE	2	cf	41	92	6	5	7	–	4-6	7-8	3000
8	Manchester ...	235	1030·0	0	SSE	3	zo	45	92	5	5	3	–	1	4-6	5000
10	Spurn Head ...	29	1030·3	0	SW'S	3	b	48	85	7	–	–	–	0	0	–
	Catterick ...	175	1029·6	−6	–	0	bf	33	97	3	–	–	–	0	0	–
	Tynemouth ...	108	1028·9	−6	NW	3	m	42	75	4	–	–	–	0	0	–
11	St. Abbs Head	280	1027·3	−8	W	2	bc	43	85	7	4	4	1	Tr	2-3	2500
	Leuchars ...	36	1026·7	−6	W	1	zo	40	97	6	–	–	5	0	2-3	–
12	Renfrew (Abbotsl.)	19	1027·2	−6	–	0	m	44	92	4	5	7	–	9+	10	3500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1027·3	−4	SW'S	2	bc	47	85	7	1	–	6	Tr	4-6	3000
13A	Tiree	22	1027·3	−6	S'E	4	c	54	97	7	5	–	–	9+	9+	1500
13B	Stornoway ...	80	1027·8	−8	S	4	c	53	92	7	5	7	–	7-8	10	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1024·8	−14	SE	2	c	44	92	6	5	3	–	Tr	9+	3000
16	Sumburgh ...	30	1025·1	−8	SSW	1	c	48	75	8	5	–	–	10	10	3000
17	Blacksod Point	18	1021·0	0	SE	4	ir	57	92	7	6	–	–	9+	9+	1500
18	Malin Head ...	84	1022·2	−10	S'E	4	c	53	85	7	9	–	–	9	9	1500
	Aldergrove ...	268	1025·9	−6	S	4	c	52	85	7	5	–	–	10	10	4300
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1022·0	−6	S	4	dr	59	97	6	6	2	–	9	10	800
	Roches Point	22	1024·5	−8	SSE	6	rr	57	97	6	6	2	–	7-8	10	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1030·3	−4	ESE	1	zo/f	37	97	5	–	–	2	0	7-8	–	1	*
	Croydon ...	1030·2	−2	SSE	1	bc fg	36	97	7	–	4	2	0	4-6	–	1	*
	S. Farnborough	1030·2	−2	–	0	zo	32	92	5	–	–	4	0	4-6	–	1	*
	Boscombe Down	1029·7	−2	E'S	3	c	38	92	7	–	–	2	0	7-8	–	0	*
	Thorney Island	1029·7	+2	E'S	2	c	42	92	8	–	4	6	0	7-8	–	0	*
	Lympne ...	1030·7	+2	–	0	bc	37	92	8	–	–	2	0	2-3	–	0	§4
	Manston ...	1031·1	0	SSW	1	bc	40	85	7	7	–	1	Tr	2-3	3000	3	*
2	Shoeburyness ...	1030·8	0	WSW	1	bc	37	97	6	–	–	4	0	4-6	–	1	*
	Felixstowe ...	1029·7	−2	WNW	1	zo	42	92	6	5	–	6	Tr	2-3	3000	1	0
	Gorleston ...	1030·2	−2	WSW	2	zo	41	85	6	–	–	4	0	2-3	–	0	2
	Mildenhall ...	1030·3	−6	SE'S	2	zo	33	97	6	–	4	4	0	7-8	–	0	*
	Cranwell ...	1029·5	−6	SW	3	c	39	92	7	–	–	6	0	9+	–	0	*
3	Birmingham ...	1029·6	−4	S	2	zo	40	92	5	–	3	6	0	9	–	1	*
	Upper Heyford	1030·1	−2	ESE	1	zo	38	97	6	–	4	6	0	9	–	1	*
4	Ross-on-Wye	1028·5	−4	NW	1	bc	39	92	7	5	7	2	1	4-6	4000	1	*
5	Hartland Point	1026·8	0	E	2	c	47	85	8	5	–	8	7-8	9	3600	0	3
	Bristol ...	1029·3	−2	S	1	bc	39	92	7	–	7	5	0	4-6	–	0	*
	Portland Bill ...	1028·3	+2	SE	4	c	51	92	8	5	–	–	7-8	7-8	4000	1	4
	Plymouth ...	1026·8	0	SSE	3	c	53	75	7	1	3	–	7-8	9	3000	0	3
	The Lizard ...	1026·2	0	SE	5	c	51	75	8	8	6	–	7-8	7-8	2500	0	4
	Scilly (St.Mary's)	1025·0	−4	SSE	4	c	53	75	8	5	7	–	4-6	9+	1500	1	4
	Guernsey ...																
6	Pembroke ...	1025·8	−4	S'E	5	c	55	75	8	8	7	–	4-6	9+	2500	1	4
7	Holyhead(Valley)	1025·8	−4	S'W	5	c	53	75	9	7	1	–	2-3	9+	2000	0	4
	Chester(Sealand)	1027·9	−6	SE	3	m	42	92	4	–	3	6	0	7-8	–	1	*
8	Manchester ...	1028·4	−6	SE'S	2	zo	45	85	7	5	3	1	4-6	9	4000	1	*
10	Spurn Head ...	1029·0	−6	WSW	3	c	46	85	7	+	5	–	9+	9+	5700		
	Catterick ...	1028·3	−6	S'W	2	f–	37	97	3	–	7	8	0	7-8	–	0	*
	Tynemouth ...	1026·9	−6	SW	3	m	41	92	+	2	3	–	4-6	7-8	2400	1	3
11	St. Abbs Head	1024·5	−12	SW	4	c	45	85	7	4	–	–	4-6	7-8	2500	0	2
	Leuchars ...	1024·1	−10	W	1	zo	45	97	6	5	7	–	7-8	10	2500	1	*
12	Renfrew (Abbotsl.)	1024·2	−14	–	0	m	44	92	4	5	2	–	7-8	7-8	1200	1	*
	Eskdalemuir ...	1025·9	−10	–	0	o	36	97	5	5	–	–	10	10	800	1	
	Point of Ayre...	1025·3	−8	SSW	4	c	5+	75	8	8	2	–	9	10	1800	0	2
13A	Tiree	1020·5	−12	S'E	5	dr	54	97	6	–	2	–	10	10	1200	1	4
13B	Stornoway ...	1020·6	−8	S	5	c	54	92	7	5	7	–	7-8	10	2000	0	3
15	Dalwhinnie ...	1023·9	−8	S	2	o	48	85	7	5	–	–	10	10	1500	1	*
	Aberdeen ...	1023·3	−12	NW	1	m	35	97	4	–	7	2	0	7-8	–	1	2
	Wick ...	1021·9	−14	S'W	3	c	49	85	7	5	–	–	9+	9+	4500	1	*
16	Sumburgh ...	1022·5	−12	SSE	2	c	46	85	8	5	7	7	1	9+	3500	0	3
17	Blacksod Point	1019·9	0	S'W	4	ir	55	92	7	6	–	–	10	10	800	1	3
18	Malin Head ...	1019·6	−12	S	3	sp	52	92	7	8	–	–	9	9	1500	1	2
	Aldergrove ...	1023·3	−10	S	3	ro ro	51	97	6	5	2	–	4-6	10	800	1	*
19	Birr Castle ...	1022·7	−8	S	1	c	54	92	8	5	1	–	7-8	10	2500	1	*
20	Valentia Obsy.	1021·6	+2	S'E	4	do do	57	97	6	5	–	–	10	10	800	1	3
	Roches Point	1023·5	0	S'E	5	ir	58	92	7	6	2	–	7-8	9+	1500	1	5

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 12th Hrs. (36)
1	London (Kew)	58	37	26	–	Tr	7·1
	Croydon ...	61	34	31	–	–	8·2
	S. Farnborough	58	31	23	–	–	7·1
	Boscombe Down	58	36	32	–	–	4·9
	Thorney Island	58	40	31	Tr	–	*
	Lympne ...	56	37	27	–	–	8·2
	Manston ...	55	39	26	Tr	0·1	5·9
2	Shoeburyness ...	58	35	30	–	–	6·1
	Felixstowe ...	57	41	35	Tr	–	4·8
	Gorleston ...	56	40	36	–	–	*
	Mildenhall ...	61	33	26	–	Tr	8·3
	Cranwell ...	57	37	30	–	–	8·8
3	Birmingham ...	56	39	30	–	–	8·8
	Upper Heyford	58	36	30	–	–	*
4	Ross-on-Wye	58	39	33	–	–	6·3
5	Hartland Point	59	46	39	–		2·1
	Bristol ...	58	38	29	–	–	6·3
	Portland Bill ...	60	49	*	–	–	*
	Plymouth ...	60	49	45	–	–	4·6
	The Lizard ...	60	50	*	–	–	5·9
	Scilly (St.Mary's)	59	53		–	–	4·2
	Guernsey ...						
6	Pembroke ...	57	55	*	–	–	6·4
7	Holyhead(Valley)	56	49	47	–	–	*
	Chester(Sealand)	56	40	33	–	–	8·2
8	Manchester ...	55	43	38	–	–	*
10	Spurn Head ...	59	*	*	–	–	9·5
	Catterick ...	54	32	25	–	–	7·7
	Tynemouth ...	55	38	32	–	–	*
11	St. Abbs Head	53	41	*	–	–	*
	Leuchars ...	54	40	33	–	–	6·7
12	Renfrew (Abbotsl.)	54	40	25	0·1	Tr	3·0
	Eskdalemuir ...	52	32	23	–	–	7·3
	Point of Ayre...	57	44	*	–	–	7·6
13A	Tiree	55	51	*	–	2	1·3
13B	Stornoway ...	53	51	*	–	–	4·0
15	Dalwhinnie ...	49	25	25	Tr	–	7·5
	Aberdeen ...	52	34	26	–	–	8·6
	Wick ...	55	35	30	–	–	*
16	Sumburgh ...	51	45	41	–	–	0·1
17	Blacksod Point	59	53	*	0·1	0·5	*
18	Malin Head ...	55	50	*	–	5	2·1
	Aldergrove ...	56	45	47	–	1	3·4
19	Birr Castle ...	57	52	50	0·1	1	0·7
20	Valentia Obsy.	59	57	*	6	13	0·0
	Roches Point	60	56	*	0·2	6	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	bmbczy	bcymow	bbcfmx	58	37	26	–	Tr	7·1	*	*	6
Croydon	217	bzobcy	bcybczo	bmowbc	61	34	31	–	–	8·2	*	*	6
Greenwich (Royal Observatory)...	149	by	bcb	bmx	59	34	21	–	Tr	6·1	62	74	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James'-Park) ...	27	*	*	*	60	41	37	–	–		68	77	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*									*
Camden Square	110	o	bc	*	59	36	33	–	–	*	*	97	*
Kensington	80	bc	bcc	*	60	38	31	–	–		68	73	*
Hampstead Observatory	450	bc	bc	bcm	56	39	31	–	–		*	74	*

FOREIGN OBSERVATIONS.

Stations	Evening of 12th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 13th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	1009·3	3E	2	c	54	1007·4	SE	2	id.	46
Lisbon (18h and 07h)	1018·2	N	2	bc	70	1017·1	NNE	1	zo	63
¶Madrid (18h and 07h)	903·1	W'N	3	bc	70					
Cairo (Heliopolis) (18h and 06h)	1017·7	NNE	2	b	74	1017·2	NW	1	bc	67
Toronto (13h and 01h)	1022·7	NNE	5	bc	38					
Washington (13h and 01h)	1027·0	E	1	ro ro	44	1021·0	SW	3	c	65

Past 24 Hours.	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Reykjavik (18h and 07h)	*	*	*	*
Lisbon (18h and 07h)	75	59	–	–
¶Madrid (18h and 07h)	*		–	
Cairo (Heliopolis) (18h and 06h)	82	61	–	–
Toronto (13h and 01h)				
Washington (13h and 01h)	76	43	*	*

¶Pressure at 1,000 dynamic metres level.

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

§ Sea disturbance reported from Dungeness.

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 13th...

South Kensington. Max.	Time.	Min.	Time.
0·6	9h 12h	0·1	11–14h 12h

Kew Observatory. Max.	Time.	Min.	Time.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Tuesday 14th October, 1941.

No. 29,181.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1028·0	-14	S	3	c	54	65	8	5	1	8	Tr	9+	2500
	Croydon ...	1028·1	-12	S	2	c	56	55	8	-	-	6	0	9+	-
	S. Farnborough	1028·0	-14	SSW	3	c	54	65	8	-	4	7	0	9+	-
	Boscombe Down	1027·7	-14	SSW	4	c	54	65	8	1	7	8	Tr	9+	1500
	Thorney Island	1028·3	-14	SSE	2	c	54	65	8	-	4	8	0	9+	-
	Lympne ...	1029·1	-12	SSE	3	c	53	55	8	-	-	8	0	9	-
	Manston ...	1029·0	-14	SSW	4	c	55	55	8	-	-	7	0	10	-
2	Shoeburyness ...	1028·7	-14	S'W	3	c	56	55	8	-	-	7	0	10	-
	Felixstowe ...	1028·0	-14	SSW	4	c	55	55	8	1	-	6	Tr	9	2000
	Gorleston ...	1028·3	-12	SW'S	4	bc	54	65	7	-	-	-	0	0	-
	Mildenhall ...	1028·0	-16	S'W	2	c	55	65	8	-	-	6	0	9+	-
	Cranwell ...	1027·0	-14	SW'S	4	c	53	65	7	1	-	8	2-3	9	2500
3	Birmingham	1026·7	-12	SW	2	zo	50	75	6	5	2	-	4-6	10	2500
	Upper Heyford	1028·1	-10	S'W	3	c	52	65	7	1	1	6	2-3	10	2500
4	Ross-on-Wye ...	1026·3	-16	S	3	c	52	75	7	6	2	-	Tr	10	2500
5	Hartland Point	1025·6	-12	SSE	2	c	54	75	8	1	7	-	2-3	9+	2000
	Bristol ...	1027·1	-14	S	2	c	54	65	8	1	7	7	Tr	10	3500
	Portland Bill ...	1027·3	-10	SSE	4	c	54	92	8	5	4	-	4-6	10	4000
	Plymouth ...	1026·0	-10	SSE	3	c	55	65	8	5	7	-	7-8	10	3500
	The Lizard ...	1025·3	-18	SE	4	c	53	75	8	8	2	-	7-8	10	2000
	Scilly (St. Mary's)	1025·0	-6	SSE	4	c	56	75	8	5	7	-	4-6	10	1800
	Guernsey ...														
6	Pembroke ...	1025·1	-10	S	6	c	55	75	8	8	-	-	9+	9+	2500
7	Holyhead (Valley)	1023·7	-8	S'W	6	c	55	75	8	5	2	-	7-8	10	800
	Chester (Sealand)	1025·0	-16	S'E	3	zo	52	75	6	5	2	-	4-6	10	4000
8	Manchester ...	1025·9	-14	S	3	c	51	75	7	-	7	5	0	9	-
10	Spurn Head ...	1026·3	-10	SW	3	c	54	65	7	5	-	-	9+	9+	4000
	Catterick ...	1024·5	-20	SSW	3	zo	53	75	5	5	7	-	2-3	9+	2100
	Tynemouth ...	1024·0	-12	SW	3	zo	56	65	5	5	-	-	9	9	3400
11	St. Abbs Head	1020·9	-26	SW	5	c/r	55	92	7	5	2	-	4-6	10	2500
	Leuchars ...	1020·2	-24	WSW	2	roro	52	92	6	5	2	-	7-8	10	2500
12	Renfrew (Abbots I.)	1020·3	-24	SSW	3	roro	55	85	5	5	2	-	4-6	10	800
	Eskdalemuir ...	1022·3	-12	SW'S	3	roro	50	92	6	6	2	-	7-8	10	220
	Point of Ayre ...	1022·8	-12	SW'S	3	rr	54	92	7	6	2	-	9	10	1000
13A	Tiree ...	1017·5	-20	S	4	rr	56	97	6	-	2	-	10	10	700
13B	Stornoway ...	1017·0	-24	S	4	c	54	92	7	8	7	-	7-8	10	1500
15	Dalwhinnie ...	1019·2	-12	S	2	o	48	92	7	5	-	-	10	10	1500
	Aberdeen ...	1018·8	-28	S	1	iro	53	85	5	-	7	-	0	7-8	-
	Wick ...	1017·9	-22	S	3	iro	53	85	7	5	2	-	4-6	10	4000
16	Sumburgh ...	1018·7	-26	SSE	2	c	52	75	8	5	7	2	1	7-8	5000
17	Blacksod Point...	1020·4	-4	W'S	3	c/pr	57	92	8	9	-	-	9	9	800
18	Malin Head ...	1017·8	-10	SSW	5	c	57	85	8	9	-	-	9	9	4000
	Aldergrove ...	1020·5	-20	S	3	ido	53	85	7	6	2	-	9	10	500
19	Birr Castle ...	1021·3	-14	SSW	1	c/r	57	92	7	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1021·1	-10	NW'N	4	ido	56	97	6	5	-	-	10	10	800
	Roches Point ...	1022·0	-10	S	4	dr	57	97	6	5	-	-	10	10	800

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1025·6	-14	S	2	zo	49	75	6	5	2	-	7-8	10	4000	1	*
Croydon	1025·8	-12	SSE	1	zo	48	75	6	-	7	-	0	10	-	1	*
S. Farnborough	1025·1	-20	SSE	2	zo	49	75	6	-	7	-	0	10	-	1	*
Boscombe Down	1024·8	-22	SE	3	zo	48	75	7	5	7	-	9	9+	4000	0	*
Thorney Island	1025·5	-16	SE	2	zo	52	65	6	5	7	-	4-6	10	4000	0	*
Lympne	1026·1	-22	SSE	1	c	48	75	8	-	3	8	0	9+	-	0	§5
Manston	1026·1	-12	S'W	2	c	48	75	8	-	-	7	0	9+	-	0	*
Shoeburyness	1026·0	-10	S'W	3	c	50	65	8	-	1	-	0	10	-	1	*
Felixstowe	1025·2	-18	SSW	3	c	52	65	8	-	7	-	0	10	-	1	3
Gorleston	1025·3	-10	S'W	3	zo	49	65	6	-	7	-	0	7-8	-	1	3
Mildenhall	1025·1	-14	S'W	2	zo	51	75	6	5	2	-	2-3	10	2500	0	*
Cranwell	1024·1	-14	SW	2	k	48	85	6	-	7	-	0	10	-	0	*
Birmingham	1023·8	-18	SSW	2	zo	49	85	6	5	2	-	9	10	2500	1	*
Upper Heyford	1025·0	-24	S'W	2	zo	50	75	6	5	7	-	4-6	9+	4000	1	*
Ross-on-Wye	1023·9	-12	SSW	2	c	50	75	6	5	-	-	10	10	2500	1	*
Hartland Point	1023·0	-12	S	2	c	52	75	8	5	-	-	9+	9+	4600	0	3
Bristol	1025·1	-8	-	0	c	50	75	7	-	7	-	0	10	-	0	*
Portland Bill	1023·8	-18	S	4	c	54	75	8	3	-	-	10	10	2500	1	4
Plymouth	1023·0	-14	S'E	1	c	53	75	8	-	7	-	0	10	-	0	3
The Lizard	1022·9	-16	SE	4	c	52	75	8	8	2	-	7-8	9+	1500	0	4
Scilly (St. Mary's)	1023·1	-8	S	2	c	54	85	8	5	7	-	4-6	9+	1500	1	3
Guernsey																
Pembroke	1022·2	-14	S	5	c	54	75	8	8	-	-	9+	9+	2500	1	4
Holyhead (Valley)	1020·2	-10	SW	5	c	55	75	8	5	7	-	4-6	10	1000	1	5
Chester (Sealand)	1022·6	-12	S'E	3	c/r	51	85	6	5	2	-	4-6	10	3000	1	•
Manchester	1022·6	-10	SSE	3	zo	49	85	5	5	2	-	2-3	10	4000	1	•
Spurn Head	1023·3	-8	SW'S	4	o	51	75	7	5	-	-	10	10	4000	0	2
Catterick	1021·3	-22	S'W	3	rr	49	92	4	6	2	-	4-6	10	800	1	*
Tynemouth	1021·0	-20	SW	2	o/r	51	85	5	-	2	-	10	10	2200	1	3
St. Abbs Head	1016·8	-12	SW	5	roro	50	92	7	5	7	-	7-8	9+	2500	1	2
Leuchars	1016·1	-14	SW	3	c	53	97	7	5	7	-	7-8	7-8	1200	2	*
Renfrew (Abbots I.)	1017·0	-26	SW	4	iro	55	92	5	6	-	-	7-8	10	800	1	*
Eskdalemuir	1018·1	-22	SSW	5	roro	57	97	6	-	2	-	10	10	450	1	*
Point of Ayre	1019·2	-18	SW'W	4	roro	54	92	7	6	2	-	4-6	10	1000	1	4
Tiree	1016·1	+6	S	4	dd	54	92	7	5	-	-	9+	9+	1500	1	5
Stornoway	1012·4	-14	S	4	pr	54	97	7	5	7	-	7-8	10	1500	1	3
Dalwhinnie	1015·7	-12	SSW	4	ido	51	97	6	5	-	1	9+	9+	1500	1	*
Aberdeen	1015·2	-20	S'W	2	c/r	51	92	6	5	7	-	2-3	9	2500	1	2
Wick	1013·6	-26	S'W	2	c/r	51	92	6	5	2	-	7-8	10	2500	1	*
Sumburgh	1014·2	-28	SSE	3	c	50	92	7	5	-	-	10	10	2200	0	6
Blacksod Point	1019·6	-4	W'N	3	c	54	85	8	5	-	-	10	10	1500	0	3
Malin Head	1017·2	-2	W	4	id	53	92	6	6	-	-	9+	9+	800	0	2
Aldergrove	1018·7	-10	SW'S	1	ido	54	97	7	5	2	-	9+	10	1800	1	•
Birr Castle	1019·5	-2	WSW	1	c/r	54	97	7	5	-	-	10	10	2500	1	•
Valentia Obsy. †	1021·5	+8	N'W	3	c	54	85	9	5	-	-	10	10	2500	1	3
Roches Point	1019·1	-14	S	4	dr	58	97	5	5	-	-	10	10	450	1	5

PAST 24 HOURS.

Stations	Weather 7h.—13h. 13th (37)	Weather 13h.—18h. 13th (38)	Weather 18h 13th to 1h 14th (39)	Weather 1h.—7h. 14th (40)
London (Kew)	bcmocmc	c⊕czo	cmzcm	cmrcir,m
Croydon	c	cy⊕cczo	czobczo	bccro
S. Farnborough	bcmo⊕c	czo	cmo	cmodoroc
Boscombe Down	bcc	c	c	bciro
Thorney Island	clovc⊕	ccmo	cmo	cmoiroc
Lympne	bccy	cyc⊕c	cbcc	cbcc
Manston	bcmocy	cyc	c	c
Shoeburyness	bcmoyc⊕	cyc	c	iroc
Felixstowe	bcmocy⊕	cyc	cbcc	c
Gorleston	bc	bccy	czozo	cpro
Mildenhall	bcmoxc⊕	ccmo	czocmo	cmocirocmo
Cranwell	c⊕c	cicmo	cmo	cmororomo
Birmingham	cz	cz	c	corc
Upper Heyford	cmoc	cczo	cmobcmo	bcmoc,v
Ross-on-Wye	bcc	c	cdoc	c
Hartland Point	c	c	c	idorc
Bristol	bccmoc	c	cmo,cmo	cmororodo
Portland Bill	c	c	c	c
Plymouth	c	c	cbc	cirororomo
The Lizard	c	c	c	croro
Scilly (St. Mary's)	c	c	cpo	cidoir
Guernsey				
Pembroke	iroc	irocq	cido	c
Holyhead (Valley)	cv	croroc	ciDdmmo	cdDdoc
Chester (Sealand)	cmwmoc	zirocmo	cmorododo	cmododo
Manchester	czoc	cirmoc	cmoddmo	rrdadido
Spurn Head	bcc	co	o	coromo
Catterick	bfczo	czobbm	rrmromo	prrorom
Tynemouth	cmmo	comorr	oirobcmo	dcoiro
St. Abbs Head	iroc	cror	bcc	c
Leuchars	cmoromrro	cmororoc	idocmociro	ciroc
Renfrew (Abbots I.)	cfirororo	rorododoir	rorocmo	mocmo
Eskdalemuir	ododo	orrro	ororo	coroc
Point of Ayre	roroc	rrroroc	ro ddc	dodoc
Tiree	odrr	odrc	cid	cidr
Stornoway	crrc	crrpro	cpro rr	cir
Dalwhinnie	oir	oido		oid
Aberdeen	czoic	crorrmo	bcmo	croromo
Wick	cic	croromcm	cirobccroro	cirocroro
Sumburgh	c	c	cirorom o	crdobfroro
Blacksod Point	proc	c	Rc	cq
Malin Head	c	cidoc	cprocprc	cproc
Aldergrove	ododorrcido	dodorrm	cdido cido	cidoir
Birr Castle	cir	cir		cir
Valentia Obsy. †	circido	cidoc	c	cqprc
Roches Point	dddr	drdr	c	bc

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/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/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.

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,-Ci: Cirrocumulus,-Cc: Cirrostratus,-Cs: Altocumulus,-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.

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.

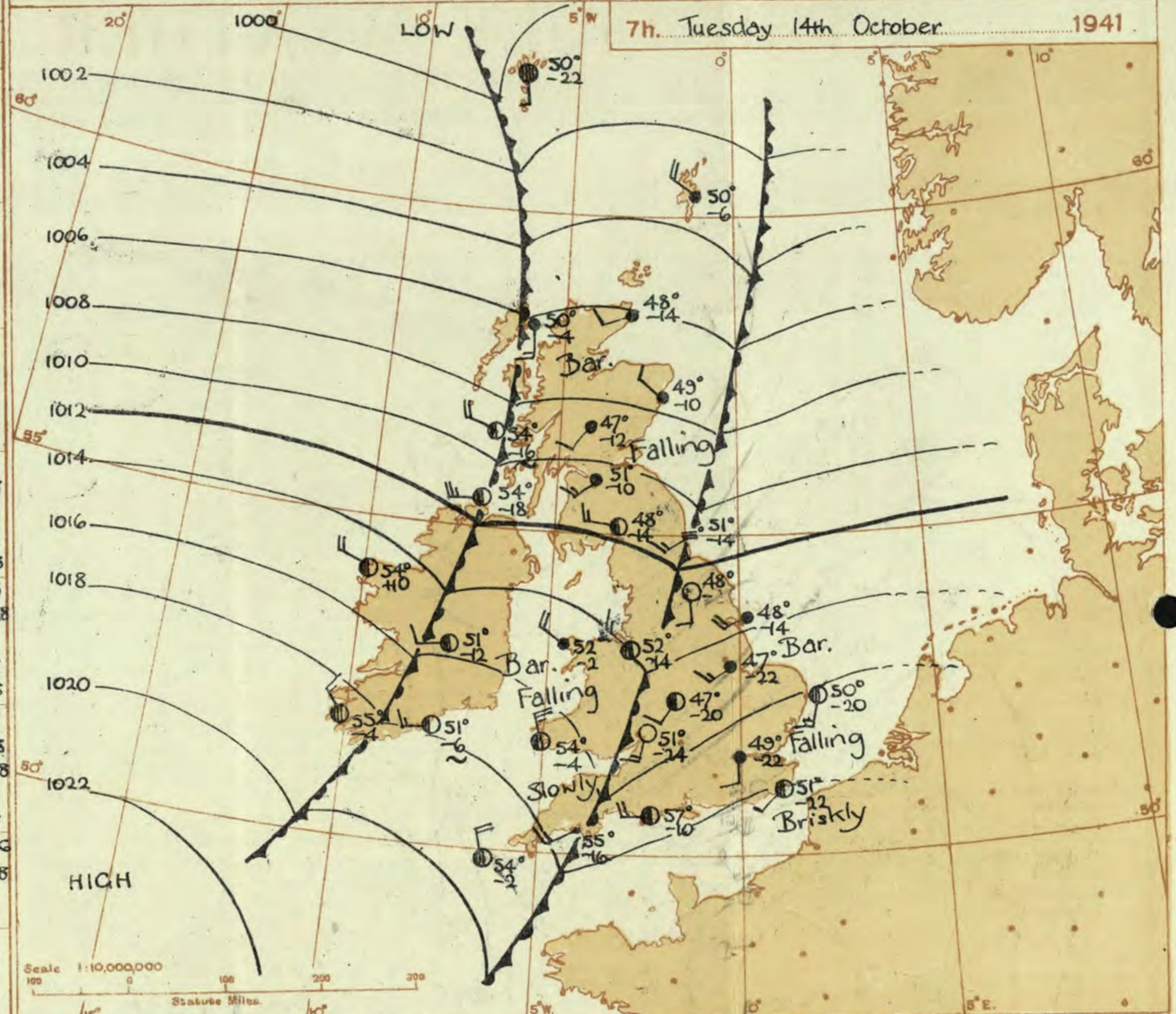
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 13th October,		18h. G.M.T.			01h. G.M.T. 14th October			07h. G.M.T.		
III $C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109 52	02764	14427	62	62554	15368	5-	61648	20468			
115 02	62738	12188	52	02844	18167	52	81834	24487	52	62834	24487
203 5-	02838	16568									
206 57	62764	22268	4-	02867	00067	52	22854	24368	52	22956	20368
210 57	02874	17328	57	02864	17265	5-	61857	20468	52	61964	20268
220 63	52526	16458	52	03745	26428	12			12	01745	27415
230 52	62537	16268	5-	52638	20358	5-	61748	20368	62	53627	20468
245 57	61663	18467	57	05644	20368	5-	05667	23327	47	01882	22268
260 57	61863	20368	52	51755	20457	52	61745	22368	57	02765	20268
278 5-	64528	18368	5-	53628	21468	5-	02848	24258	52	61844	22327
279 52	02655	18368				52	61655	18468	53	02854	23367
285 27	02745	22327							6-	58638	28468
288 53	05663	17247	5-	64448	17268	5-	64548	16368	52	61745	20268
575 8-	21847	20257				5-	02757	22457			
301 07	08486	16328	52	62455	16468	52	62545	17368	5-	22744	28358
321 02	05690	20428	51	05674	20328	52	05564	23328	57	58554	21368
299 5-	05546	20416	5-	05648	20328	5-	22648	20328	5-	64448	20468
292 57	05663	20247	52	61466	19128	02	62468	16168	02	22448	14168
310			--	01545	26415				--	57209	26409
614 11	05652	53428	07	08490	20328	52	05674	20348	02	64448	24268
333 52	62746	16568	52	02854	18568	5-	52648	18558	87	01854	26355
334 --	03647	20228	--	02655	24216				--	03647	24228
340 07	05673	15327	07	05690	15328	5-	61668	16368			
136 10	01741	19317	52	05583	20218	07	05590	19325	57	22665	18368
336 51	0652	12427	51	02762	16328				62	62763	28468
350			07	05690	16328	07	05690	20325	59	05643	18267
368 57	02853	13228	07	02868	12228	5-	02666	00068	62	61646	20168
379			07	02790	18328	5-	05663	20467	07	61690	20328
390 00	05690	17316	07	05690	17227	07	05590	16126	57	05574	18227
382			07	02790	15828	07	05690	00025	57	02773	18227
438 51	01874	16415							57	02854	23416
430 00	02890	16417				07	05690	20328	52	02767	18228
409 57	02864	15428	57	02765	16468	5-	61648	16368			

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 14th October 1941



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

FRONTS or boundaries between masses of air of different 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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday Oct. 14th 1941
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light or moderate S. to S.W. wind veering to W.N.W. later; cloudy; some rain at first; fair periods later; average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Moderate W. to N.W. wind; variable cloud; occasional light showers but bright intervals; average temperature.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate W. or W.N.W. wind; cloudy; occasional rain at first; bright intervals and occasional showers later; average temperature.
13A. W. Scotland 13B. N.W Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate W. or W.N.W. wind; cloudy with rain at first; bright intervals and showers later; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 8-12
19 S. E. Ireland 20 S. W. Ireland	As 4-7

GENERAL INFERENCE.

A depression over Iceland is moving East and troughs of low pressure over England and Ireland are moving E.S.E. There will be some rain at first in the Southeast and in Scotland, but bright intervals and occasional showers will spread from west later, the showers occurring chiefly in the North.

FURTHER OUTLOOK.

Westerly winds and rather unsettled weather with some showers in most areas but chiefly in the North.

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.
0265/4120. Wt. 8/76. O. 6034. Gp. 948 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.)

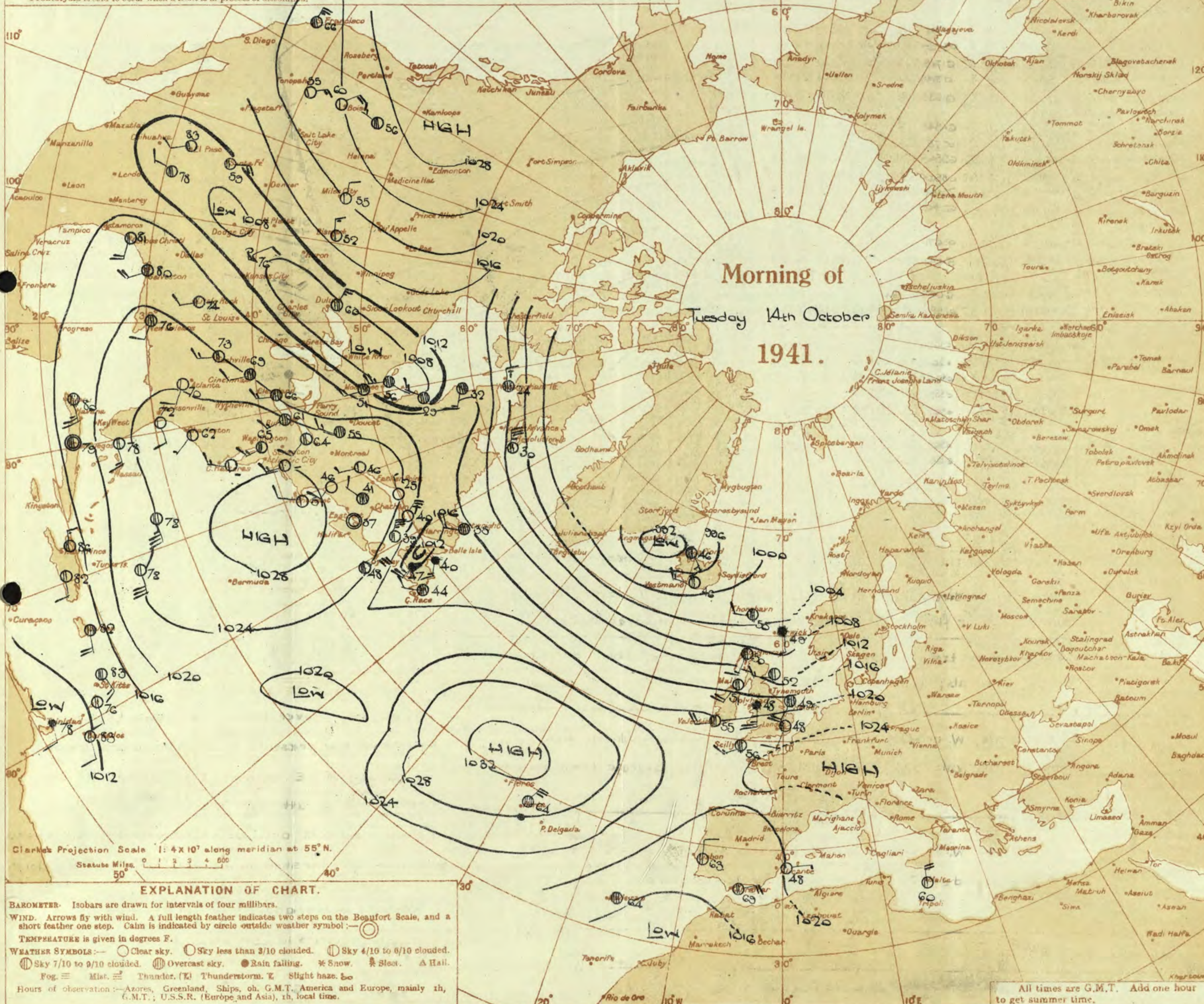
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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. T Slight haze. ∞

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h, G.M.T. ; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 14th October 1941.

No. 29,181

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

District.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low. (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1021·7	−16	SSW	2	c	48	85	7	−	3	−	0	7-8	−
	S. Farnborough	226	1021·6	−14	SSE	2	zo	48	85	5	5	7	−	1	9	−
	Boscombe Down	417	1021·7	−16	S'E	2	bc	46	85	7	5	7	−	2-3	4-6	5700
	Thorney Island	10	1021·7	−38	SW	2	zo	55	75	6	−	3	1	0	10	−
	Lympne ...	346	1022·7	−18	SSW	2	c	51	75	8	−	7	−	0	9	−
	Manston ...	154	1023·2	−20	S	3	c	49	75	7	−	7	−	0	9+	−
2	Shoeburyness ...	11	1022·1	−16	S'E	3	c	51	75	7	5	7	−	7-8	7-8	7000
	Felixstowe ...	15	1022·2	−22	S	3	c	53	75	7	−	7	−	0	10	−
	Gorleston ...	5	1021·6	−28	SSW	3	zo	48	85	5	5	−	−	9+	9+	1500
	Mildenhall ...	19	1021·3	−18	SSW	2	zo	47	85	6	−	7	−	0	9+	−
	Cranwell ...	240	1019·2	−22	SW	4	zo	48	85	6	5	7	−	9	10	4500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1021·0	−18	S	2	zo	46	85	6	−	7	−	0	7-8	−
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1019·4	−22	S	3	c	52	85	7	5	2	−	7-8	10	1500
	Bristol ...	209	1021·1	−18	SW	1	zo	51	75	6	5	2	−	4-6	10	2500
	Portland Bill ...	32	1021·0	−16	S	4	c	54	75	7	5	−	−	7-8	7-8	2500
	Plymouth ...	82	1020·1	−18	S	2	bc	54	75	7	5	7	−	4-6	4-6	5000
	The Lizard ...	240	1021·0	−14	SSW	3	c	53	85	8	8	2	−	7-8	9+	1500
	Scilly (St. Mary's)	163	1020·6	−12	SW	3	c/pr	56	85	7	5	1	−	4-6	10	1500
	Guernsey ...	175														
6	Pembroke ...	142	1019·6	−14	SSW	6	d.d.	55	97	7	8	−	−	10	10	2000
7	Holyhead (Valley)	26	1016·5	−24	S	5	dd	53	97	5	6	2	−	7-8	10	1000
	Chester (Sealand)	16	1017·9	−22	SSW	3	d.d.	49	92	5	5	2	−	7-8	10	3300
8	Manchester ...	235	1018·6	−22	S'E	3	dd	48	85	5	5	−	−	10	10	1500
10	Spurn Head ...	29	1018·4	−24	SSW	4	c	49	85	6	8	−	−	10	10	2500
	Catterick ...	175	1017·6	−10	S'E	2	ir.	50	85	5	5	2	−	7-8	10	1500
	Tynemouth ...	108	1015·4	−20	SW	3	zo	52	85	5	5	−	−	4-6	4-6	2500
11	St. Abbs Head	280	1012·2	−26	W	5	c	54	85	7	5	7	−	4-6	9+	1500
	Leuchars ...	36	1012·0	−10	WSW	3	ir.	52	97	7	5	2	−	4-6	10	1500
12	Renfrew (Abbots I.)	19	1013·9	−14	WSW	3	c/r	52	92	6	5	2	−	9+	10	3100
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1015·4	−12	W	2	c	53	97	8	5	7	−	4-6	10	2500
13A	Tiree ...	22	1013·7	−10	WSW	3	id.	52	92	7	5	−	−	9+	9+	1800
13B	Stornoway ...	80	1010·8	−10	SSW	3	c	50	92	7	5	7	−	9	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1008·6	−10	W'N	4	ro ro	51	92	8	5	1	−	7-8	9	2000
16	Sumburgh ...	30	1007·3	−30	S	3	ro ro	51	97	6	5	−	−	10	10	800
17	Blacksod Point	18	1016·2	−14	W	4	c/r	53	85	7	5	−	−	9+	9+	1500
18	Malin Head ...	84	1014·2	−14	SW	4	c/pr	51	92	7	8	−	−	9	9	2500
	Aldergrove ...	268	1016·0	−10	SW	3	id.	51	92	7	5	−	−	10	10	2200
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1020·3	−2	W	4	o	55	75	9	5	−	−	10	10	4000
	Roches Point	22	1018·5	−4	WNW	4	c	54	85	8	5	−	−	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 14th October — PAST 24 HOURS.

District.	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 13th Hrs. (36)
1	London (Kew)	1016·5	−20	SW	2	zo	49	92	6	5	7	−	7-8	10	2500	1	*	55	44	37	−	0·3	5·0
	Croydon	1017·1	−22	S	2	ir.	49	85	7	5	2	−	4-6	9+	4000	1	*	58	46	41	−	0·1	5·8
	S. Farnborough	1016·9	−22	SW'S	2	c/r	49	85	7	5	7	−	2-3	10	5700	1	*	55	45	39	−	0·2	3·6
	Boscombe Down	1017·7	−20	SW'S	3	ro ro	49	85	7	−	7	−	0	9+	−	0	*	54	49	38	−	0·2	1·5
	Thorney Island	1017·3	−18	SSW	2	c/r	54	85	7	5	7	−	9	10	5700	0	*	56	50	45	−	Tr	*
	Lympne	1018·4	−22	SW'S	1	c	51	85	8	−	7	−	0	9	−	0	§	54	49	37	−	−	7·0
	Manston	1017·9	−26	SSW	2	c	50	85	7	5	7	−	7-8	10	2000	0	*	56	46	41	−	−	7·4
2	Shoeburyness	1027·4	−22	SW	3	ir.	53	85	6	−	7	−	0	10	−	1	*	57	49	37	−	Tr	6·1
	Felixstowe	1017·2	−28	SW	3	c	53	85	8	−	7	−	0	10	−	1		57	49	44	−	−	6·6
	Gorleston	1017·0	−20	S'W	3	c/pr	50	85	7	8	−	−	10	10	1500	1	3	56	47	44	−	Tr	*
	Mildenhall	1016·0	−26	SSW	2	zo	49	85	6	−	7	−	0	9+	−	1	*	55	46	41	−	0·1	3·8
	Cranwell	1014·6	−22	SW	3	ro ro	47	92	6	5	2	−	4-6	10	1200	1	*	55	46	45	−	2	3·5
3	Birmingham	1014·7	−20	SSW	2	c	47	92	7	−	2	−	9+	9+	2500	1	*	50	45	45	−	1	0·1
	Upper Heyford	1016·4	−26	S	3	zo	48	85	6	5	−	−	9+	9+	4500	1	*	53	46	45	−	Tr	*
4	Ross-on-Wye	1015·4	−24	SW'S	3	c	51	85	7	5	7	−	7-8	10	2500	1	*	53	48	46	−	Tr	0·0
5	Hartland Point	1016·6	−4	N	4	id	54	92	8	5	2	−	7-8	10	700	1	4	54		49	−	4	0·0
	Bristol	1016·9	−20	S	2	d.d.	49	92	6	5	2	−	7-8	10	1000	0	*	54	48	45	−	0·4	0·0
	Portland Bill	1017·6	−10	W	4	c	57	85	8	5	7	−	7-8	9	4000	1	4	57	52	*	−	−	*
	Plymouth	1017·1	−16	SW'W	3	ro ro	55	97	5	6	−	−	10	10	400	1	3	56	51	49	−	4	Tr
	The Lizard	1018·6	−8	WNW	5	c	54	97	8	5	−	−	10	10	1000	1	4	54	52	*	−	1	0·0
	Scilly (St. Mary's)	1018·9	−2	N'W	4	c	54	85	8	5	2	−	4-6	7-8	1200	1	3	56	53	*	−	2	0·2
	Guernsey																						
6	Pembroke	1016·5	−4	NW'N	5	c	54	97	8	8	7	−	4-6	7-8	2500	1	4	55	51	*	Tr	1	*
7	Holyhead (Valley)	1014·1	−2	WNW	4	pr	52	85	8	8	7	−	4-6	9	3000	1	3	56	51	48	0·2	7	*
	Chester (Sealand)	1013·7	−14	WNW	3	zo	52	92	6	5	2	−	9	9+	1500	1	*	54	49	44	Tr	1	0·2
8	Manchester	1013·7	−20	S	2	id	48	97	5	3	7	−	4-6	10	2000	1		51	47	46	Tr	2	*
10	Spurn Head	1014·0	−14	SW'W	4	ro ro	48	92	5	−	2	−	10	10	1500	1	3	55	47	*	−	3	4·4
	Catterick	1012·3	−18	S	2	m/r	48	97	4	5	2	−	9	10	2500	1	*	54	47	41	1	3	0·7
	Tynemouth	1011·9	−14	SW	3	m	51	92	4	8	−	−	9	9	2400	1	2	56	50	46	0·5	4	*
11	St. Abbs Head	1009·5	−16	W	4	c	51	85	9	8	7	−	7-8	10	2500	1	3	56	49	*	4	4	*
	Leuchars	1008·3	−18	WSW	2	c	50	92	8	5	2	−	9	9+	4500	1	*	53	49	47	3	·1	0·0
12	Renfrew (Abbots I.)	1010·5	−10	SW'W	3	ir.	51	85	6	6	−	−	4-6	9+	1000	1	*	55	50	48	3	1	0·0
	Eskdalemuir	1010·5	−14	W'N	3	c	48	85	8	5	−	−	9	9	2500	1			48	46	7	5	0·0
	Point of Ayre	1012·3	−14	NW'W	4	c	53	85	8	5	4	−	4-6	7-8	5000	1	3	55	51	*	4	3	0·0
13A	Tiree	1008·4	−16	WNW	4	c/d	54	85	7	8	−	−	9	9	1500	1	5	57	51	*	6	1	0·0
13B	Stornoway	1006·7	−4	S	3	ir.	50	97	7	5	2	−	7-8	9+	2000	1	2	54	49	*	5	3	
15	Dalwhinnie	1009·1	−12	SSW	2	id.	47	92	7	5	−	−	10	10	1500	1	*	51	45	43	1	1	0·1
	Aberdeen	1007·8	−10	NW'W	1	ro ro	49	92	6	5	2	−	2-3	10	3500	1	1	53	48	45	2	0·5	*
	Wick	1006·3	−14	WSW	2	ro ro	48	92	8	5	2	−	10	10	5700	1	*	53	47	45	3	1	*
16	Sumburgh	1003·8	−6	NW	4	ro ro	50	97	7	5	7	−	9+	10	500	1	*	52	50	48	−	4	0·7
17	Blacksod Point	1015·3	+10	WNW	4	cq	54	85	8	5	−	−	9+	9+	1500	0	3	59	51	*	1	1	*
18	Malin Head	1010·4	−18	W	5	c/pr	54	85	7	8	−	−	9	9	1500	0	3	58	50	*	1	2	0·4
	Aldergrove	1013·0	−10	SW	3	id.	50	92	7	5	−	−	10	10	1200	1	*	54	48	47	7	0·4	0·0
19	Birr Castle	1015·2	−12	W	2	c/r	51	97	8	6	2	−	4-6	10	1500	1	*		48	46	3	1	0·0
20	Valentia Obsy.	1018·7	−4	NW'W	3	c	55	92	8	7	−	−	10	10	2500	1	4	58	52	47	5	1	0·0
	Roches Point	1017·8	−6	W	3	bc	51	85	8	5	−	−	4-6	4-6	2500	1	5	59	51	*	12	0·6	*

LONDON OBSERVATIONS

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

Stations	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew ...	18	bcm.bc	c⊕cz.	cm,cir,m	55	44	37	−	0·3	5·0	*	*	5
Croydon ...	217	c	c⊕cz.	cz,bccr.	58	46	41	−	0·1	5·8	*	*	6
Greenwich (Royal Observatory) ...	149	bc⊕y	c⊕y	crcr	57	43	34	−	1	5·6	55	87	5
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	56	45	43	2			57	91	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	57	44	40	−	1		52	89	*
Camden Square ...	110	o	c	*	57	42	41	−	0·5	*	*	90	*
Kensington ...	80	bc	bc	*	57	44	40	−	2		63	94	*
Hampstead Observatory ...	450	bc	bc	or	55	45	39	−	0·2		*	93	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 14th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·4	8h 13th	<0·1	10-14h 13th

FOREIGN OBSERVATIONS.

Stations.	Evening of 13th October: Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Morning of 14th October: Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h) ...	997·0	ESE	3	ro ro	48	995·8	S	2	pr	43	*	*	*	*
Lisbon (18h and 07h) ...	1015·9	W	1	bc	66	1018·2	N	1	b	61	73	59	−	−
¶Madrid (18h and 07h) ...	903·3	SW	2	zo	68						75		−	
Cairo (Heliopolis) (18h and 06h) ...	1013·1	NE	3	b	77						88		−	
Toronto (13h and 01h) ...	1026·0	−	0	bc	36									
Washington (13h and 01h) ...	1027·4	*	*	*	52	1026·4	SSE	3	bc	65	67	50	−	−

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 ,,
2 Fog 550 ,,
3 Moderate fog 1,100 ,,
4 Mist or haze $1\frac{1}{4}$ miles.
5 Poor visibility $2\frac{1}{2}$,,
6 Moderate ,, $6\frac{1}{4}$,,
7 Good ,, $12\frac{1}{2}$,,
8 Very good ,, 31 ,,
9 Excellent ,, beyond 31m.

COLUMN 30—Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

~~BRITISH SECTION~~

Wednesday 15th October 1941.

No. 29,182

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1017·5	-14	SW'W	2	m/r	52	97	4	5	–	-	9+	9+	1500
	Croydon	1014·2	-14	SW'S	3	ido	51	97	6	6	2	-	9	10	600
	S. Farnborough	1014·0	-16	W'N	3	c/d	52	97	6	5	2	-	9+	10	1400
	Boscombe Down	1015·2	-10	NW	3	c	55	85	8	5	-	-	9+	9+	2000
	Thorney Island	1014·6	-16	WSW	1	c	56	92	6	8	1	-	7-8	9+	4000
	Lympne	1015·6	-18	WSW	2	ic	50	85	8	5	2	-	tr	10	2500
	Manston	1014·0	-22	SW'W	3	c/r	50	85	9	5	7	-	7-8	10	6000
2	Shoeburyness	1014·2	-22	WSW	2	iro	51	92	6	6	2	-	10	10	1500
	Felixstowe	1013·1	-22	SW	4	dd	50	97	5	6	-	-	10	10	800
	Gorleston	1012·8	-22	SW'W	3	zo	52	75	6	5	-	-	10	10	1500
	Mildenhall	1012·8	-18	SW'W	3	zo	51	97	6	5	-	-	10	10	1000
	Cranwell	1011·3	-16	W'N	4	bc	57	75	6	-	4	-	0	4-6	-
3	Birmingham	1012·8	-2	W	3	c	57	65	7	8	7	-	7-8	9	2500
	Upper Heyford	1013·8	-10	W	3	zo	55	75	6	8	4	-	4-6	7-8	2000
4	Ross-on-Wye	1014·4	-6	W'N	3	c	57	65	9	4	-	-	7-8	7-8	4000
5	Hartland Point	1017·0	-2	WNW	4	cjp	56	85	8	5	-	-	9+	9+	2000
	Bristol	1015·3	-4	WNW	4	c	59	65	8	8	-	-	7-8	7-8	1500
	Portland Bill	1015·5	-2	WNW	4	c	58	75	8	2	4	-	4-6	7-8	4000
	Plymouth	1016·6	-6	NW	4	c	58	75	8	5	3	-	7-8	7-8	3500
	The Lizard	1018·2	-4	NW	5	bc	59	75	8	8	6	-	4-6	4-6	1500
	Scilly (St. Mary's)	1019·3	-2	NW'N	4	bc	59	75	8	8	4	3	4-6	4-6	1200
	Guernsey														
6	Pembroke	1016·9	0	NW	5	cq	56	85	8	8	-	-	9	9	2500
7	Holyhead (Valley)	1014·1	0	W	6	c	57	75	8	5	-	-	4-6	7-8	2000
	Chester (Sealand)	1013·5	-2	W	4	c/r	56	85	7	8	-	-	4-6	9+	1000
8	Manchester	1012·7	-4	WSW	3	iro	52	97	4	6	2	-	9	10	400
10	Spurn Head	1010·3	-14	W'N	4	c/r	55	85	6	3	-	-	9+	9+	1500
	Catterick	1010·1	-10	WNW	3	c	59	92	8	5	-	-	9	9	2500
	Tynemouth	1009·7	-14	W	4	c	55	75	7	8	-	-	9+	9+	2400
11	St. Abbs Head	1006·9	-16	W	4	c/r	55	65	9	5	7	-	4-6	7-8	2400
	Leuchars	1005·8	-14	W	4	bc	57	75	9	8	-	-	4-6	4-6	2500
12	Renfrew (Abbots I.)	1009·4	+2	WNW	4	pr	55	75	8	9	4	-	4-6	4-6	1000
	Eskdalemuir	1008·5	-2	W'N	4	pr	53	75	7	7	-	-	7-8	7-8	2500
	Point of Ayre	1012·1	0	NW	6	bc	57	75	8	2	4	-	2-3	4-6	2000
13A	Tiree	1010·2	+8	NW'W	5	bc	55	85	8	8	-	-	4-6	4-6	2500
13B	Stornoway	1007·5	+6	WNW	5	pr	51	85	7	5	7	-	7-8	9+	2500
15	Dalwhinnie	1007·5	+2	SSW	3	c	52	85	7	8	-	-	7-8	7-8	1500
	Aberdeen	1004·9	-14	SW	1	c	53	85	7	7	7	-	7-8	9	3300
	Wick	1004·4	-6	WNW	2	rr	50	92	7	5	2	-	4-6	10	3000
16	Sumburgh	1002·5	-6	W	2	rr	51	97	8	5	1	-	7-8	10	1500
17	Blacksod Point	1017·9	+12	WNW	5	bc/pr	56	75	8	2	5	-	2-3	4-6	2500
18	Malin Head	1013·0	+12	NW'N	6	c	55	65	8	2	-	5	4-6	7-8	2500
	Aldergrove	1013·9	+10	W'N	2	c	56	75	9	8	6	-	7-8	7-8	2500
19	Birr Castle	1017·4	+6	WNW	2	c	57	65	8	4	-	-	7-8	7-8	2500
20	Valentia Obey. †	1021·0	+8	NW'N	5	c	58	65	8	8	-	4	4-6	9	4000
	Roches Point	1018·8	+10	NW'W	4	c	60	75	8	8	3	-	2-3	7-8	2500

OBSERVATIONS at 18h. G.M.T. 14th October — PAST 24 HOURS

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 14th (37)	Weather 13h.–18h. 14th (38)	Weather 18h. 14th to 1h. 15th (39)	Weather 1h.–7h. 15th (40)
1	London (Kew)	1013·7	+6	SW'W	2	zo	53	85	5	5	-	-	2-3	2-3	2500	1	*	crormocm	cmcbcmo	bcpro,cmow	cmow
	Croydon	1013·7	0	WSW	2	zo	52	85	5	4	4	-	2-3	4-6	4000	1·	*	r	cdidoc	bmowbcmo	cmobcmo
	S. Farnborough	1014·3	+4	W	3	c	52	85	7	5	-	-	7-8	7-8	2500	1	*	cromodoc	moc, dic	cmob	bmobc⊕
	Boscombe Down	1015·7	+8	WNW	3	bc	53	85	7	4	6	-	4-6	4-6	4000	1	*	crorododo	bcc	c	bmowcmobc
	Thorney Island	1015·7	+6	W'N	3	zo	54	85	6	4	-	-	4-6	4-6	4000	0	*	crorododoc	cmobmo	bmocbmow	bmowc,w
	Lympne	1014·4	0	WNW	1	m	49	97	4	-	3	-	0	4-6	-	1	§	ciroir iro	ciroirbc	bcmcbmo	bbcmow
	Manston	1012·9	+2	W'S	2	zo	49	97	5	-	3	-	0	2-3	-	1	*	cirorrmoc	ciridobbc	bcmopro	bwbcmo
2	Shoeburyness	1013·3	-2	WSW	2	cf+	53	92	3	5	-	-	9+	9+	1500	1	*	cruoifo	ciromof	firbmo	bmowcmo
	Felixstowe	1011·7	+2	W	3	m	53	92	4	5	-	-	9+	9+	5500	1	3	ciroddmo	ddmocmobcm	cmbmo	bcmobc
	Gorleston	1011·0	-2	W'S	3	zo	53	85	6	8	-	-	10	10	1500	1	3	bc	cbcczo	cbczoblc	bc
	Mildenhall	1011·9	+2	W	3	c	53	92	7	5	7	-	4-6	7-8	4000	1	*	cirododmo	cmocbc	bcbmo	bmobcmow
	Cranwell	1011·8	+4	W'N	3	zo	53	85	6	5	-	-	4-6	4-6	4000	1	*	r	czobc	bzobmo	bcmocmo
3	Birmingham	1013·8	+6	WNW	3	zo	53	85	6	8	-	-	2-3	2-3	2500	1	*	robcc	cprbc	b	bbc
	Upper Heyford	1013·9	+10	W'N	3	c/pr	53	85	8	8	4	-	9+	9+	2000	1	*	cmocidobc	mopr	bc	bcbcc
4	Ross-on-Wye	1015·2	+8	W'N	4	c	54	75	8	4	-	-	7-8	7-8	2500	1	*	cocpobcc	bccbc	bc	bc
5	Hartland Point	1017·5	+6	NW	3	c/pr	57	75	8	8	4	-	4-6	7-8	1500	1	4	idc	cbcp	bc	bcc
	Bristol	1016·0	+10	NW	4	bc	52	75	7	5	4	-	2-3	2-3	3000	1	*	cdodocbc	bc	bcb, bc	bcc, wc
	Portland Bill	1016·6	-6	W	4	c	57	85	8	5	4	-	4-6	9	4000	1	4	c	c	bcc	bc
	Plymouth	1017·5	+2	NW	4	bc	55	85	8	2	-	1	1	2-3	2000	1	3	c	cbccprb	bmo	bmocmoc
	The Lizard	1019·6	+14	NW'N	4	bc	54	85	8	8	4	-	4-6	4-6	2500	0	4	bc	cbc	bc	bcc
	Scilly (St. Mary's)	1020·6	+14	NNW	4	bc	55	85	8	8	4	3	2-3	4-6	1500	1	4	cbc	cpobc	bcc	c
	Guernsey																				
6	Pembroke	1017·7	+8	WNW	5	bc	57	75	8	7	4	-	4-6	4-6	3000	0	3	cproq	bc	bc	bcc
7	Holyhead (Valley)	1015·7	+16	WNW	5	c	54	75	8	8	-	-	7-8	7-8	2000	1	4	cprodoror	cbc	bbcc	c
	Chester (Sealand)	1014·4	+12	NW'W	5	pr	52	75	7	9	-	-	9	9	1200	1	*	croc	cbccpro	cprbcbzo	bcczow
8	Manchester	1013·6	+12	WNW	3	bc/pr	52	85	6	8	3	-	4-6	4-6	2000	1	*	proirom	bcpromo	bmobcmo	cprmoc
10	Spurn Head	1009·4	0	W'N	4	c	55	85	6	1	6	-	2-3	7-8	2500	1	3	cmo	cb	b	b
	Catterick	1010·6	+6	WNW	4	bc	52	75	7	5	4	-	1	2-3	2500	0	*	cidoc	cbcb	bzo	bmowbc
	Tynemouth	1009·9	+6	NW	3	bc	53	97	7	2	4	-	4-6	4-6	2200	1	2	cmmoc	cbc	cbcb	bbc
11	St. Abbs Head	1007·6	+14	WNW	6	c	52	75	8	5	4	-	4-6	7-8	2500	0	4	croc	cbcc	bcb	b
	Leuchars	1008·4	+26	WNW	4	c	51	75	9	8	7	-	4-6	7-8	3500	1	*	ccmobc	bc	bcb	bbcbbc
12	Renfrew (Abbots I.)	1011·9	+20	WNW	4	bc/pr	49	75	8	8	-	-	2-3	2-3	2000	1	*	cirobcpro	bcprb	b	bbcprc
	Eskdalemuir	1010·9	+12	WNW	4	bc	46	75	8	5	-	-	4-6	4-6	2500	1	*	cbcpr	bcpr	bbc	bccw
	Point of Ayre	1013·8	+16	NNW	6	c	54	75	8	9	3	-	7-8	7-8	1500	1	5	rorocbc	bcprc	bPrbcb	bbcc
13A	Tiree	1013·3	+14	NW'N	5	bc	53	85	8	8	-	-	2-3	2-3	2500	0	5	prbc	bc	bc	bcc
13B	Stornoway	1009·7	+14	W	5	c/pr	50	85	8	5	7	-	4-6	9+	2500	1	2	cirpr	cpr	cpr	c
15	Dalwhinnie	1010·0	+12	SSW	1	c	44	85	7	8	-	-	7-8	7-8	1500	1	*	r	prc		oid
	Aberdeen	1006·9	+16	NW	4	bc	50	75	7	5	7	-	tr	4-6	3500	1	2	crorOiroc	cirocbc	b	b
	Wick	1006·2	+14	NW	4	pr	49	85	8	8	6	-	7-8	9	1800	1	*	iororrr	rrrocbccpro	pr	bcpro, bc
16	Sumburgh	1002·0	+4	NW	4	c	51	75	7	8	7	-	4-6	9+	1200	1	*	croro	croroc	bcprb	bprbcb
17	Blacksod Point	1018·9	+4	WNW	4	c/pr	52	75	8	2	6	4	2-3	7-8	1500	1	4	probc	probc	bcc	iroc
18	Malin Head	1015·4	+14	WNW	5	bc	53	75	8	2	-	-	4-6	4-6	2500	1	5	c	bc	bccprc	c
	Aldergrove	1016·0	+10	NW	3	c	51	75	8	8	3	5	4-6	7-8	1500	1	3	cprocPRc	cprobc	bcbwbc	bcc
19	Birr Castle	1018·9	+6	WNW	2	c	51	85	8	5	-	-	7-8	7-8	4000	1	*	c	cprc		ciro
20	Valentia Obey. †	1022·2	+10	NW'N	4	bc/pr	55	65	8	8	3	4	1	2-3	2500	1	4	cprobcc	cqprob	bbcc	cprcroro
	Roches Point	1020·4	+16	NW'W	5	c/pr	55	75	8	3	7	5	4-6	7-8	1500	1	4	bcc	cproc	bcc	c

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/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⚑ gale.
⊕ Solar halo. Ⓤ lunar halo. ⌓ Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

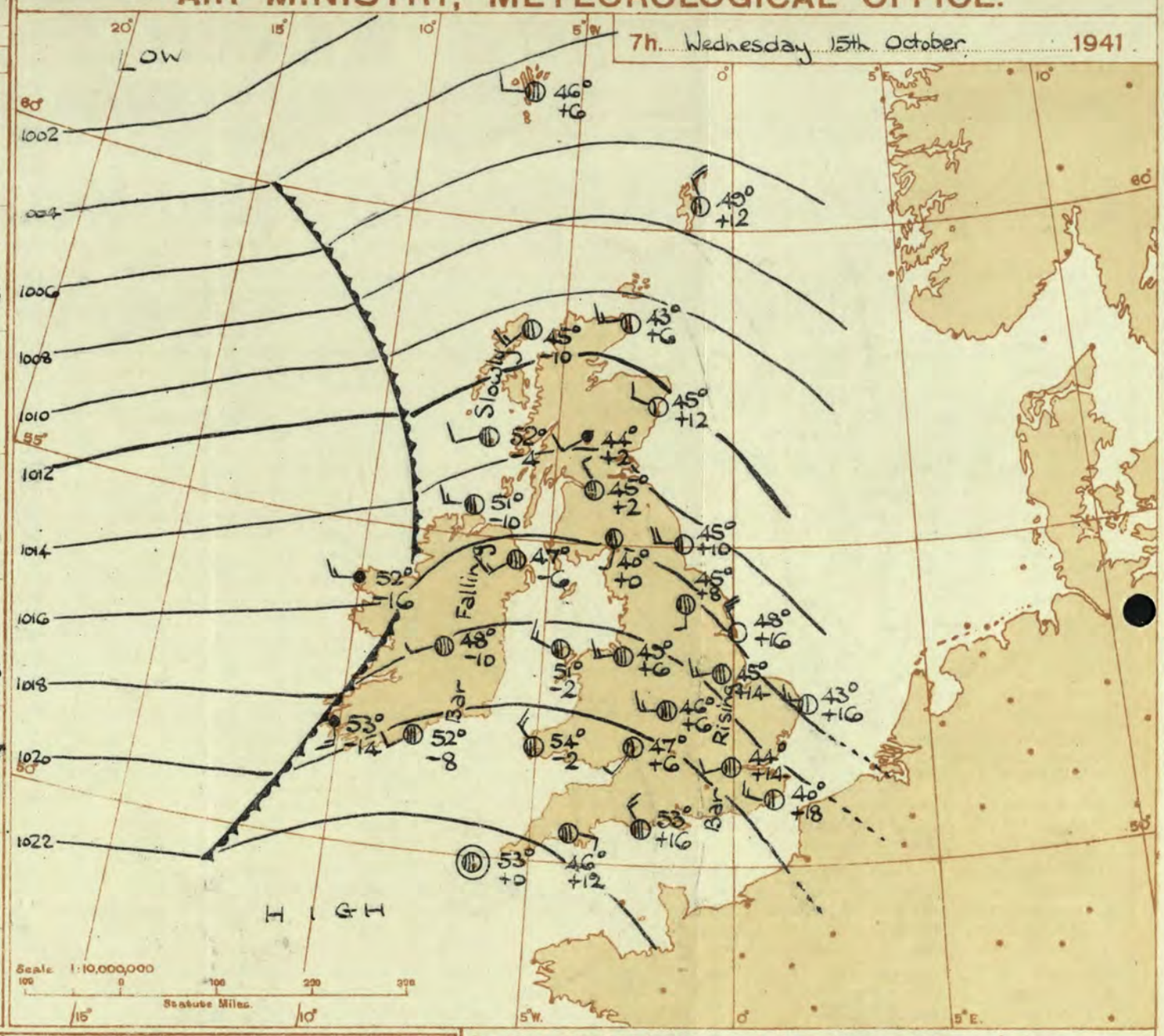
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 14th October. 18h. G.M.T.				01h. G.M.T. 15th October. 07h. G.M.T.							
III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
109	02	62768	25368	87	01843	26524	80	00843	25583	30	25743	23483
115	87	81784	28487	87	81834	28486	52	81834	28486	52	81834	26486
203	83	02835	24568	80	01834	24584	50	01943	29413			
206	82	02955	26385	83	01854	26284	5-	00853	26223	53	02965	20325
210	67	62635	91468	86	01864	24485	50	00862	22312	50	00963	19283
220				83	02754	28585						
230	3-	81847	27487	2-	25855	27385	80	25853	26383	53	02855	00087
245	86	02854	24465	46	01964	28484	00	00990	22310	84	00951	24401
260	84	01853	20424	50	01864	24414	00	00790	20200	50	01863	20204
2788	-	01854	26584	86	00852	61583	20	00853	24483	57	02861	22418
279	53	25844	55486	50	01843	26483	00	00790	24200	17	02862	22317
285	23	25744	26684	20	01744	28514				23	02744	28416
288	57	22855	23267	50	00852	24312	00	00890	21200	03	01890	20114
575	87	25854	26485				5-	02857	26387	5-	21848	20258
301	23	02745	27486	2-	05644	61584	20	01753	63483	20	01843	59414
321	20	02754	59465	86	02655	26425				57	05661	26315
299	50	05544	20214	5-	02746	24316	00	00790	24310	70	01763	26313
292	87	02965	24426	40	00862	24312	00	00890	26310	04	02890	21115
310	--	28109	24429	--	01645	24415				--	46109	20249
614	36	13644	26425	50	05644	26384	00	05690	26203	04	08490	26228
333	26	02845	26485	23	26845	26485	43	01853	28314	21	01853	20215
334	--	52547	28258	--	03646	30317						
340	5-	51947	24327	20	01853	26263	53	01752	30214			
136	62	21513	20368	56	05655	25466	00	00790	28500	00	05690	26415
336	51	51653	28317	24	01763	28515				51	02762	24328
350	5-	05657	22327	46	25654	24284	00	05690	24302	57	02771	23317
368	8-	02944	28366	44	00853	28313	54	05653	28214	57	05653	26227
379	20	01854	28364	80	01853	24313	08	01890	28302	07	02890	24316
390	5-	43328	23358	8-	05648	22116	00	00790	26400	00	05690	26316
382	57	02755	24326	56	01764	28414	53	01763	24314	03	01890	24215
436	02	10758	28468									
430	57	22524	28167	50	17462	23212	50	05662	26202			
409	57	32066	28457	53	01853	28314	50	01854	30314	57	02852	28227

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



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th October, 1941.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light W.N.W. wind backing S.W. temporarily tonight; fine today. cloudy tonight with a short period of slight rain, fair tomorrow; temperature slightly below average.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light or moderate W. wind backing S.W. temporarily; fair apart from a short period of rain later today; temperature slightly below average.
13A. W. Scotland 13B. N.W Scotland 14 Mid Scotland	Moderate S.W. wind veering W. later; cloudy with some rain at first, occasional showers later; temperature slightly below average.
15 N. E. Scotland 16 Orkneys and Shetlands	Moderate S.W. wind veering W. later; occasional showers at first; cloud increasing with rain later today, bright intervals and showers tomorrow; temperature slightly below average.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate S.W - W. wind; cloudy, some rain at first, fair later. 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 S.W. of the British Isles and low near Iceland. A ridge of high pressure is crossing England and is being followed by a shallow trough of low pressure over West Ireland. There will be a short period of cloudy weather with rain near the trough but otherwise weather will be fair in the south and rather showery in the extreme North. Temperature will be slightly below the seasonal average.

FURTHER OUTLOOK.

Fair in the South; some rain in the North; milder than of late.

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. 6269/4120. Wt.8176. D.8034. Gp.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 Wednesday 15th October 1941.

Clarke Projection Scale 1: 4X10⁷ along meridian at 55°N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— ○ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ● Rain falling. ✱ Snow. ✱ Sleet. △ Hail. Fog. ≡ Mist. ≡ Thunder. (Σ) Thunderstorm. Σ Slight haze. ∞

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 15th October 1941.

No. 29,182

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force. 0–12	Weather.	Temp. °F.	Humid. %	Visibility. 0–9	Cloud. Form. Low.	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base. (feet)
		(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1016·9	+14	NNW	3	c	47	92	6	–	–	6	0	7-8	–
	S. Farnborough	226	1017·7	+10	WNW	3	zo	46	85	6	5	–	–	Tr	Tr	3000
	Boscombe Down	417	1019·0	+14	W'N	3	zo	54	85	6	–	–	1	0	2-3	–
	Thorney Island	10	1017·9	+10	NW	2	zo	46	92	5	5	3	–	Tr	1	4000
	Lympne ...	346	1016·1	+6	S	3	zo	45	97	6	–	–	–	0	0	–
	Manston ...	154	1014·3	+10	S	4	b	50	85	7	–	–	–	0	0	–
2	Shoeburyness ...	11	1015·3	+14	W'N	2	zo	47	88	6	–	–	–	0	0	–
	Felixstowe ...	15	1013·4	+10	W	4	zo	48	85	6	–	–	–	0	0	–
	Gorleston ...	5	1012·6	+12	W	3	zo	48	85	5	8	–	–	10	10	800
	Mildenhall ...	19	1014·6	+12	W	4	zo	46	92	6	–	–	–	0	0	–
	Cranwell ...	240	1014·3	+18	W'N	4	zo	46	85	6	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1016·8	+8	W	2	bc	47	85	7	–	4	–	0	2-3	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1020·4	+16	NNW	4	bc	55	65	8	1	4	–	1	2-3	1500
	Bristol ...	209	1019·7	+14	W'S	2	bc	46	85	7	5	–	5	2-3	2-3	3000
	Portland Bill ...	32	1019·1	+16	W	3	bc	56	75	8	4	–	–	4-6	4-6	4000
	Plymouth ...	82	1020·5	+32	NW	1	zo	51	85	6	–	–	1	0	1	–
	The Lizard ...	240	1021·8	+4	NNW	3	bc	49	92	8	8	–	–	4-6	4-6	1500
	Scilly (St. Mary's)	163	1022·4	+6	N'W	3	c	55	75	8	8	4	–	4-6	7-8	1500
	Guernsey ...	175														
6	Pembroke ...	142	1020·1	+8	NW	4	bc	54	75	8	4	–	–	2-3	2-3	3000
7	Holyhead (Valley)	26	1018·4	+10	NW	4	c	50	85	7	5	7	–	1	7-8	2500
	Chester (Sealand)	16	1016·6	+10	NW	4	zo	51	75	6	–	–	5	0	2-3	–
8	Manchester ...	235	1017·1	+14	W'S	2	bc	46	85	6	2	6	2	4-6	4-6	1500
10	Spurn Head ...	29	1012·7	+16	NW	5	b	49	75	7	–	–	–	0	0	–
	Catterick ...	175	1014·9	+22	WNW	3	zo	47	75	6	–	–	–	0	0	–
	Tynemouth ...	108	1013·1	+14	WNW	4	b	46	85	7	–	–	–	0	0	–
11	St. Abbs Head	280	1012·1	+10	WNW	6	b	49	75	7	4	–	–	Tr	Tr	2500
	Leuchars ...	36	1012·7	+18	W	2	b	43	85	9	–	–	–	0	0	–
12	Renfrew (Abbotsl.)	19	1014·8	+14	SSW	2	b	45	85	7	5	–	–	Tr	Tr	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1016·5	+14	NW	5	b	52	85	8	2	–	–	Tr	1	2000
13A	Tiree	22	1013·9	+14	WNW	3	bc	53	85	8	8	–	–	2-3	2-3	2500
13B	Stornoway ...	80	1012·5	+10	WSW	4	c/pr	47	85	7	5	7	–	7-8	9+	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	112	1009·7	+18	WSW	3	pr	45	85	7	3	–	3	4-6	4-6	1400
16	Sumburgh ...	30	1005·3	+18	NW	5	bc	50	85	8	8	–	–	2-3	2-3	1500
17	Blacksod Point	18	1018·6	–4	W'N	4	c	53	75	7	4	–	–	9	9	1500
18	Malin Head ...	84	1015·5	–6	W	3	bc	51	75	7	4	6	–	4-6	4-6	2500
	Aldergrove ...	268	1018·1	+8	WSW	2	bc	47	92	8	5	–	8	Tr	4-6	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1021·8	–2	SSW	2	c	53	75	9	5	–	–	10	10	4000
	Roches Point	22	1022·2	+2	WNW	3	c	52	85	8	5	–	–	7-8	7-8	2500

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

Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Temp. °F.	Humid. %	Visibility 0–9	Cloud. Form. Low.	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base (feet)	State of Ground. 0–9	Sea. 0–9
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1019·7	+18	W	2	zo	46	85	6	5	4	8	Tr	9+	4000	1	*
1019·4	+14	WSW	2	c	44	92	6	–	4	6	0	7-8	–	1	*
1020·2	+14	W'N	2	bc	44	92	8	–	3	8	0	4-6	–	1	*
1020·5	+10	NW	2	c	45	92	7	5	7	–	1	9	1000	0	*
1020·5	+14	NW	2	c	46	85	7	5	6	6	4-6	7-8	4000	0	*
1019·3	+8	W'N	3	zo	40	97	6	–	–	8	0	4-6	–	1	§
1018·0	+14	WNW	4	bc	48	85	6	5	–	6	Tr	4-6	800		*
1018·6	+20	W'N	3	c	44	92	6	–	8	0	9	–	–	1	*
1016·6	+18	W'N	4	bc	46	85	7	–	–	6	0	4-6	–	1	
1015·8	+16	W	3	bc	43	85	6	1	–	–	2-3	4-6	1500	0	
1017·4	+14	W	3	zo	44	97	6	–	7	2	0	2-3	–	0	*
1017·3	+14	W'S	3	zo	45	92	6	–	1	6	0	9	–	0	*
1019·3	+6	W	3	c	46	85	6	–	7	6	0	9	–	1	*
1019·1	+10	W	2	c	44	85	7	–	4	9	0	7-8	–	0	*
1019·5	+6	SW	1	bc	47	85	8	–	1	1	0	4-6	–	1	*
1020·9	–4	WNW	3	c	54	75	8	2	6	–	2-3	9+	2700	0	3
1020·7	+6	W	1	c	46	92	7	–	7	–	0	9	–	0	*
1021·1	+16	NW	3	c	53	85	8	1	4	–	4-6	10	4000	0	
1021·9	+12	ESE	1	c	46	97	8	5	3	7	7-8	10	7200	0	2
1022·4	+6	NW	2	c	53	85	8	5	–	–	10	10	2400	0	3
1022·4	0	–	0	c	53	85	8	5	7	–	4-6	9+	1500	0	3
1020·8	–2	NW	3	c	54	75	8	8	9	–	7-8	10	3000	0	3
1018·1	–2	WNW	3	c	51	85	8	1	1	–	1	9+	2000	0	
1018·3	+6	WSW	3	zo	49	85	6	5	4	7	4-6	9	2000	1	*
1018·4	+2	SW'S	2	zo	45	97	6	2	–	7	7-8	10	2100	1	*
1015·4	+16	NW'N	5	b	48	85	7	–	–	2	0	0	–	0	3
1016·1	+8	W	4	bc	45	85	8	5	3	1	Tr	7-8	3000	0	*
1015·4	+10	W	4	bc	45	92	6	–	4	–	0	4-6	–	1	2
1013·2	+2	WNW	5	b	50	65	9	4	–	–	Tr	Tr	2500	1	2
1013·3	+6	SSW	2	bc	41	92	9	5	3	5	Tr	2-3	3100	1	*
1015·1	+2	NNW	1	c	45	97	7	5	7	–	4-6	7-8	4000	1	*
1015·5	0	S'W	1	c	40	92	8	7	4	–	2-3	9	2500	1	*
1016·8	0	WNW	4	c	52	85	8	2	7	8	1	9+	3000	1	2
1013·5	–4	NSW	2	c	52	85	8	8	–	–	7-8	7-8	2500	0	
1012·0	+10	SW	3	c	45	92	8	5	7	–	4-6	9+	2500	1	
1014·3	+2	SW	2	cD	44	85	7	5	–	–	9+	9+	1500	1	*
1012·5	+12	WNW	2	b	45	75	8	7	3	–	Tr	1	3500	1	1
1010·4	+6	W'S	3	bc/pr	43	92	8	3	6	–	2-3	2-3	1400	1	
1007·3	+12	NW	4	bc	43	92	8	8	–	–	2-3	2-3	2500	1	4
1015·4	–16	W	3	ir.	52	92	7	6	–	–	10	10	1500	1	3
1014·4	–10	W	3	c	51	85	7	6	–	–	9	9	1500	0	4
1016·9	–6	SW	3	c	47	92	8	5	7	7	2-3	10	2500	1	*
1018·6	–10	WSW	1	c/r	48	85	7	5	–	–	10	10	2500	1	*
1018·3	–14	S	3	rain	53	85	7	6	2	–	9	10	2500	1	3
1020·1	–8	SW	2	c	52	85	8	5	7	–	7-8	9+	1500	1	4

PAST 24 HOURS.

Temperatures. Max. Day 7h–18h °F.	Min. Night 18h–7h °F	Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine 14th. Hrs.
(31)	(32)	(33)	(34)	(35)	(36)
57	44	38	3	Tr	0·6
56	43	39	3	–	0·8
	43	38	1	–	1·4
58	42	38	1		2·6
60	43	33	3	Tr	*
55	39	35	1	0·1	0·2
54			1		
54	44	38	1	0·6	0·2
55	46	42	0·3	–	0·6
54	43	39	Tr	–	*
57	42	35	0·6	Tr	0·8
	43	40	2	–	1·8
58	45	39	1	–	2·4
59	44	38	0·3		*
60	46	37	Tr	–	3·2
57	53	51	Tr	–	1·8
59	44	32	Tr	–	2·7
	50	*	3	..	*
59	46	40	2	Tr	2·4
60	49	*	Tr	–	5·0
62	50	*	Tr	–	5·6
58	52	*	–	–	4·0
59	48	44	1	–	*
57	49	43	Tr	0·3	2·1
55	44	37	2	0·1	0·1
57	47	*	5	–	2·1
59	45	35	Tr	–	3·1
56	44	42	–	–	*
56	44	*	0·2	–	*
	41	33	–	–	3·6
56	43	33	1	0·1	3·6
55	39	33	1	0·1	3·1
57	51	*	1	1	3·2
56	50	*	0·3	–	5·3
54	45	*	2	1	4·7
53	41	33	3	0·2	0·0
58	43	32	0·3	–	0·7
53	43	*	7	1	4·0
53	48	*	3	0·2	0·0
58	48	*	0·1	2	*
55	47	*	1	Tr	4·0
56	43	33	11		4·8
58	41	37	0·2	0·3	2·9
58	52	43	Tr	1	2·5
60	50	*	0·3	–	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	c r or m. c	c mc bc m	bc pr, c m W	57	44	38	3	Tr	0·6	*	*	6
Croydon	217	r	c d id. c	bm. W bc	56	43	39	3	–	0·8	*	*	6
Greenwich (Royal Observatory) ...	149	cir r.	d. c bc	dbc W 8 m	55	44	35	2	–	0·4	85	74	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	58	47	42	1			95	81	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	56	45	41	1	Tr		77	75	*
Camden Square	110	0	bc	*	55	44	40	2	–	*	*	77	*
Kensington	80	or bc	c p bc	*	56	44	38	2	Tr		87	82	*
Hampstead Observatory	450	or bc	c .	bc	54	42	38	2	–		*	78	*

FOREIGN OBSERVATIONS.

Evening of 14th October

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	997·5	SSW	3	pr	45
Lisbon (18h and 07h)	1017·0	N	3	b	72
¶Madrid (18h and 07h)	904·5	WSW	2	c	68
Cairo (Heliopolis) (18h and 06h)	1013·7	NNW	2	b	77
Toronto (13h and 01h)					
Washington (13h and 01h)					

Morning of 15th October

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
996·3	SE	3	c	41
1018·5	*	*	b	64
904·7	SW	1	bc	55
1018·2	NW	3	pr	68

¶Pressure at 1,000 dynamic metres level.

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 15th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·2	16-20h 14th	<0·1	0-5h 15th

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
82	63	–	–
75	55	–	–
90	65	–	Tr

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ „
6 Moderate „	6½ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

Page 1.

SECRET

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 16th October, 1941.

No 29,183

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1020·4	+2	N	2	c	55	65	7	8	5	1	4-6	7-8	2500
	Croydon ...	1020·1	-2	W	3	c	59	55	7	2	3	4	4-6	7-8	2800
	S. Farnborough	1020·6	-4	WSW	3	c	58	55	8	2	5	9	2-3	9	3500
	Boscombe Down	1021·2	+2	W	3	bc	56	65	8	1	6	-	2-3	4-6	3000
	Thorney Island	1021·0	-2	W	3	c	60	65	8	2	5	1	2-3	7-8	4000
	Lympne ...	1020·7	+2	W'N	3	zo	55	75	6	3	3	3	2-3	4-6	3500
	Manston ...	1020·0	+4	WNW	3	c	55	65	7	2	3	9	Tr	9	2000
2	Shoeburyness ...	1019·6	+2	W'N	2	c	58	65	8	2	7	8	2-3	9	3100
	Felixstowe ...	1018·5	+6	W'N	4	bc	57	65	7	2	-	5	1	4-6	2500
	Gorleston ...	1018·6	+8	NW'W	3	c	56	65	7	-	7	-	0	7-8	-
	Mildenhall ...	1019·0	+2	W'N	3	c	57	75	7	2	7	8	4-6	7-8	2500
	Cranwell ...	1018·2	+2	W'N	3	c	55	65	6	1	-	6	2-3	9	2500
3	Birmingham	1019·0	-2	WSW	2	pr	54	75	8	8	7	-	9	9+	1500
	Upper Heyford	1019·4	-2	W	3	c	55	65	8	1	7	-	2-3	9	2500
4	Ross-on-Wye ...	1019·4	-6	W'S	3	bc	57	55	8	7	4	-	2-3	4-6	3500
5	Hartland Point	1020·4	-10	WNW	4	c	56	75	8	5	6	-	4-6	9+	2000
	Bristol	1021·1	0	WNW	3	c	57	65	8	7	7	-	4-6	9+	2000
	Portland Bill ...	1021·5	0	WNW	3	c	57	85	8	4	4	-	7-8	10	4000
	Plymouth ...	1021·2	0	W	3	c	57	75	7	7	7	-	4-6	9+	5000
	The Lizard ...	1022·0	-6	WSW	3	c	59	75	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1021·5	-10	WSW	3	c	59	75	8	8	3	-	4-6	9+	1200
	Guernsey ...														
6	Pembroke ...	1019·9	-10	SSW	6	c	57	75	8	8	-	-	9+	9+	2500
7	Holyhead (Valley)	1017·1	-14	SW	5	c	56	75	8	2	7	-	2-3	10	2500
	Chester (Sealand)	1017·9	-8	W'S	3	c	57	55	8	1	7	-	2-3	10	3000
8	Manchester ...	1018·0	-6	SW	3	c	55	65	7	2	3	5	4-6	9+	2500
10	Spurn Head ...	1017·2	-4	WNW	3	zo	55	75	6	7	1	-	7-8	9+	4000
	Catterick ...	1016·5	+2	W	3	c	57	65	8	5	-	8	7-8	9+	2500
	Tynemouth ...	1016·4	+2	W	3	c	55	65	6	8	4	1	4-6	7-8	2300
11	St. Abbs Head	1013·6	+2	W	3	c	50	85	8	5	4	5	4-6	7-8	2500
	Leuchars ...	1012·4	-10	WSW	5	c	55	65	8	8	-	1	4-6	7-8	3200
12	Renfrew (Abbots I.)	1013·3	-18	SW	3	c	54	75	8	8	7	-	7-8	10	3500
	Eskdalemuir ...	1014·4	-2	S'W	3	c	50	85	8	5	-	-	9+	9+	2500
	Point of Ayre ...	1015·8	-10	W'S	4	c	57	75	8	2	7	7	2-3	10	2500
13A	Tiree	1010·2	-20	SW'S	4	c/r	52	92	8	5	-	-	9+	9+	1800
13B	Stornoway ...	1008·8	-24	S	5	c	53	85	8	8	7	-	7-8	10	2500
15	Dalwhinnie ...	1012·2	-6	SSW	2	c	51	65	7	5	3	1	4-6	9	2500
	Aberdeen ...	1011·6	-8	SW'W	2	bc	58	55	8	1	3	-	1	2-3	2000
	Wick	1010·3	-6	WSW	3	c	54	65	9	2	4	6	4-6	9+	2000
16	Sumburgh ...	1008·4	+2	WNW	4	bc	52	75	8	8	-	-	2-3	2-3	2500
17	Blacksod Point...	1008·3	-36	S	6	rr	56	97	7	6	-	-	10	10	1500
18	Malin Head ...	1009·9	-34	SSW	5	c	53	85	7	6	2	-	4-6	9	1500
	Aldergrove ...	1013·9	-24	S'W	2	iro	52	85	8	5	-	-	10	10	1200
19	Birr Castle ...	1014·8	-26	WSW	1	iro	54	92	7	5	-	-	10	10	2500
20	Valentia Obsy. †	1014·9	-26	S'W	5	ido	57	97	6	5	-	-	10	10	1500
	Roches Point ...	1017·4	-14	W'S	3	c/r	57	85	8	6	2	-	7-8	9	800

OBSERVATIONS at 18h. G.M.T. 15th October. — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.—13h. 15th (37)	Weather 13h.—18h. 15th (38)	Weather 18h. 15th – 1h. 16th (39)	Weather 1h.—7h. 16th (40)
London (Kew)	1019·5	-4	SSW	2	zo	52	75	5	5	-	-	9	9	2500	1	*	cmowbcc	bcczo	cbcddo	cmo
Croydon	1019·7	-2	S	1	zo	52	55	6	-	4	-	0	9	-	1	*	cmo	cyczo	cmorocmo	r
S. Farnborough	1019·7	-2	SW'W	3	c	53	75	8	5	7	-	4-6	9+	5000	1	*	bccy	cbcyc	cddmobc	c
Boscombe Down	1020·2	-2	SSW	2	c	52	85	7	5	7	-	2-3	9	3000	0	*	cbc	c	cmociroc	cdd
Thorney Island	1020·3	-4	SW	2	c	55	75	7	2	7	8	Tr	9+	4000		*	bcwbcc	bcwbcc	cmoomo	omoiro
Lympne	1020·7	0	W'S	1	zo	50	85	6	-	3	-	0	9	-	1	§	cbcmo	bcbbcmo	cmo	cmoroc
Manston	1020·1	+2	WSW	2	zo	48	85	6	-	9	-	0	9	-	0	*	cbcc	cbcczomo	c,b,cmo	cmoc
Shoeburyness	1019·7	0	SW'W	2	c	53	75	6	5	7	-	Tr	9	3500	1	*	cmo	cycmo	cmo	cmoc
Felixstowe	1018·7	+2	WSW	2	zo	54	75	6	-	5	-	0	9+	-	1	2	cmobc	bccmo	bcmo	r
Gorleston	1018·5	-2	SW'S	2	zo	53	75	6	5	3	-	2-3	4-6	2400	0	2	bcc	cbc	czo	cpro
Mildenhall	1018·4	0	WSW	2	bc	52	85	7	-	7	-	0	4-6	-	0	*	bcmowbc	bcbczobc	bccmo	c
Cranwell	1017·4	-2	WSW	2	zo	50	85	6	-	7	-	0	9+	-	0	*	cmocz	czomo	cmo	cmobcmo
Birmingham	1017·4	-8	S	2	iro	53	85	6	5	-	-	10	10	1500	1	*	cbc		oiro	obiro
Upper Heyford	1018·7	-2	SW	2	c/r	52	85	7	-	7	-	0	10	-	1	*	cbcc	cbcc	cidomocbc	cmociroc
Ross-on-Wye	1017·9	-12	SW'S	4	c	53	85	8	5	-	-	10	10	2500	1	*	bccbc	c	c	c
Hartland Point	1016·9	-18	WSW	5	c/r	57	85	8	5	2	-	7-8	9+	2600	0	4	c	cimr	cdcc	circir
Bristol	1019·2	-10	S	3	c	54	75	7	5	7	-	2-3	10	2500	0	*	c	c	c,cido	cidoc
Portland Bill	1019·0	-6	SW	4	c	57	92	8	5	-	-	9	9	2500	0	4	c	c	co	c
Plymouth	1019·3	-10	WSW	4	c	57	85	8	8	-	-	9+	9+	2000	0	3	c,mmoc	cproc	c	c,irdrmo
The Lizard	1019·6	-14	WSW	4	c	56	75	8	8	6	-	7-8	7-8	1500	0	3	bcc	c	oc	ciroc
Scilly (St. Mary's)	1019·2	-12	SW'W	4	ojp	57	85	8	5	-	-	10	10	1200	1	3	cbcc	c	cido	cidoc
Guernsey																				
Pembroke	1016·0	-12	SW	6	iro	56	92	8	8	-	-	9+	9+	2000	0	4	cpr	irc	c	cpr
Holyhead (Valley)	1012·9	-28	S'W	6	ido	55	92	7	5	2	-	7-8	10	500	1	4	cproc	ciro	oiromocmo	crmocbc
Chester (Sealand)	1015·2	-18	S	3	zo	53	85	6	5	7	-	4-6	10	2000	0	*	czocy	cycmo	croromo	cmorrc
Manchester	1015·8	-8	S	4	c	52	85	7	5	-	-	9+	9+	2000	1	*	cmoc	c	cmoiro	czomirrr
Spurn Head	1016·5	-8	SW	2	zo	53	75	6	4	-	-	2-3	2-3	4000	0	2	cmo	cbc	ocmo	c
Catterick	1014·4	-6	SW'S	3	c	53	75	7	5	2	-	7-8	10	1800	0	*	bcc	c	cmocidomo	crrmobc
Tynemouth	1014·1	-10	SW	3	zo	53	85	6	2	3	-	4-6	7-8	2500	1	2	bcc	bccmoz	cmoc	cqir
St. Abbs Head	1009·9	-22	SW	4	c	51	85	8	4	7	-	4-6	9+	2800	0	3	bcc	bcc	c	cdqrcq
Leuchars	1008·7	-26	SSW	3	c/pr	52	75	8	8	2	-	7-8	10	3200	1	*	bc	bccPRc	idoiro	roiRqbcv
Renfrew (Abbots I.)	1008·7	-30	S'W	3	roro	52	85	5	5	-	-	10	10	2000	1	*	cmoproc	iroomo	irroromo	rrroropro
Eskdalemuir	1010·7	-22	SSW	4	c	49	85	6	5	-	-	10	10	1500	1	*	c	cmo	orrm	RRrr
Point of Ayre	1011·2	-14	ESE	4	iro	55	85	7	8	7	-	9+	10	800	1	3	c	c	roroc	rorrc
Tiree	1001·7	-32	SSW	6	c/r	54	97	7	5	-	-	9+	9+	1500	1	6	cir	orrc	oir	oRR
Stornoway	999·7	-40	SSE	7	rr	51	97	6	8	7	-	7-8	10	1500	1	4	c	crr	crr	cpr
Dalwhinnie	1007·1	-24	S	4	id	47	85	7	5	-	-	10	10	1500	1	*	c	coid		oir
Aberdeen	1008·6	-20	SSW	3	m	52	75	4	4	2	-	4-6	10	3100	0	2	bbcy	bcyc	crorocrr	cidocrr
Wick	1005·8	-18	S'E	3	roro	51	85	8	5	2	1	4-6	10	4000	1	*	bcc	ccroro	r	iroorrcroro
Sumburgh	1006·3	-14	SSW	2	c	49	85	8	5	7	-	1	10	2500	1	3	bbcbbc	bcc	crororrmo	rr RRmo
Blacksod Point	1004·0	-24	SW	6	c/r	59	97	7	6	-	-	10	10	800	2	4	r	rrq	rrq	bcq
Malin Head	1003·3	-34	S	5	pr	55	92	8	8	-	-	9+	9+	1500	0	4	c	cproc	cprocidoc	c
Aldergrove	1008·0	-30	S	3	iro	53	97	8	6	2	-	9	10	800	1	*	c	irororoiro	oroodojf	rrrrbcirbc
Birr Castle	1009·9	-10	SW	2	c/r	56	97	7	6	2	-	4-6	10	1500	1	*	ciro	ciro		bccpr
Valentia Obsy. †	1011·5	-14	SW'S	4	dr	59	92	7	5	-	-	10	10	1500	1	4	crorocido	cidoccdr	ciR irc	irobcPRbc
Roches Point	1013·3	-26	SW	4	c	58	92	8	5	-	-	9+	9+	800	1	5	irc	idc	ddrr	bc

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

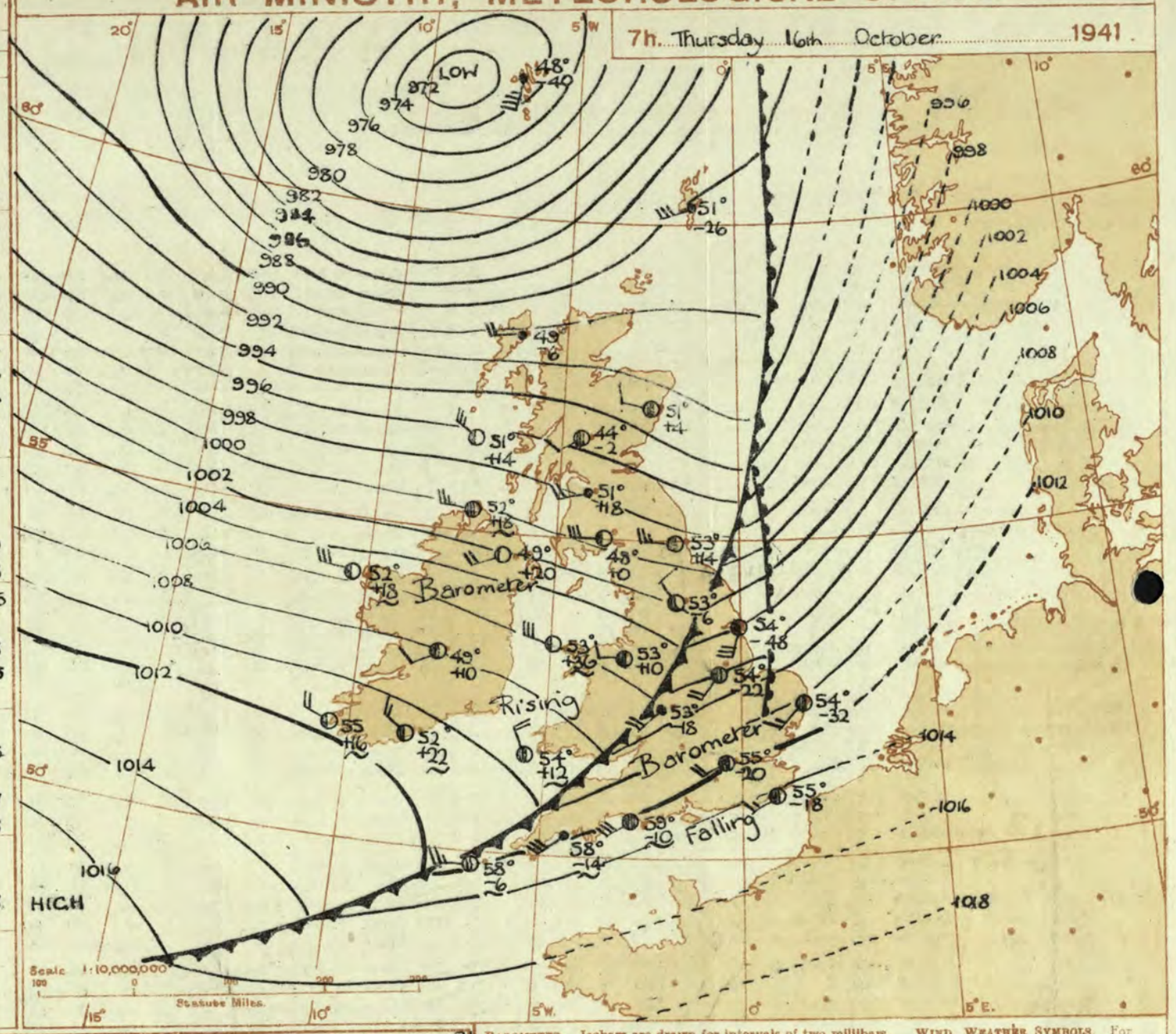
Note.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary on application to the Meteorological Office, London, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 15th. October				18h. G.M.T.				01h. G.M.T. 16th. October				07h. G.M.T.			
III	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN		$C_L C_M$	wwVhN_h	DDFWN		$C_L C_M$	wwVhN_h	DDFWN	
109	80	02854	20315	62	02890	13428		62	22744	43668		62	03745	21468	
115	51	81842	20487					52	81834	20568		52	81834	20587	
203	8-	81847	16527	6-	02835	16628		6-	05828	40768					
206	83	02863	20324	57	02864	12868		5-	02857	20367		52	02855	20368	
210	13	02863	20227	07	22868	12368		51	02864	16367		52	02847	20568	
220	52	03845	15428												
230	87	02854	19188	62	62635	17368		62	64635	18468		8-	10857	20587	
245	24	01863	20314	57	61667	18328		6-	52638	16568		57	02843	55465	
260	70	01854	21315	52	02864	18418		52	61646	53468		50	01853	20563	
278	57	02865	18368	5-	64748	14368		5-	52638	51458		50	00841	24561	
279	67	21885	21285	52	02845	51488		62	54428	52758		53	01853	24364	
285	27	02854	24527	22	81646	24488						23	01634	24664	
288	--	02864	22327	54	02746	18328		5-	05645	48627		5-	63766	19366	
575				62	52646	49368		62	64537	57568		5-	01744	57514	
301	27	25753	25488	57	05654	21567						7-	22655	57665	
321	87	05664	22426	57	05664	18315		5-	05648	20468		59	05654	18428	
299	57	01755	26315	57	05544	20318		5-	05548	20328					
292	84	02855	23228	57	05655	16288		5-	05648	15328					
310	--	01636	24416	--	02688	34328						--	67200	24140	
614	27	05665	22327	57	05475	18227		62	22535	50768		57	61665	55628	
333	52	61855	20466	52	22746	15468		52	05645	18668		27	01952	26365	
334	--	02645	20316	--	03646	20328						--	02646	20327	
340	77	02954	22328	5-	02958	16328		5-	05648	53458		62	63645	28368	
136	23	05665	22338	07	05620	18214		02	05668	20328		57	02764	19428	
336	18	02762	24416	52	05653	20328									
350															
368	83	02744	24387	7-	02778	20428		5-	51638	20628		5-	51744	63628	
379	13	01853	24326	57	02763	18328		5-	02756	57556		6-	02845	18658	
3901	A	01754	26314	05	05520	18126		57	05463	20315		57	05636	20567	
382	13	05854	23416	57	02773	20127		61	05664	17428		52	51627	53568	
438	53	01763	12413												
430	15	02763	22326	07	05620	18226		57	01653	22414					
409	57	25853	22387	57	02763	20367		5-	05658	50458		52	51627	53568	

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



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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday Sept: 16th 1941
1 S.E. England 2 E. England ...	Wind veering W., fresh locally, falling moderate or light; rain at beginning of period, then fair; average temperature.
3 E. Midlands ...	Moderate to light W. wind; fair; average temperature.
4 W. Midlands ...	
5 S.W. England 6 South Wales ...	Moderate or fresh W. wind; fair, apart from local showers; average temperature.
7 North Wales ...	Fresh or strong W. squally wind, moderating slowly; bright intervals, some showers; average temperature.
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	Strong, squally W. wind; a gale locally at first; occasional rain or showers; brighter intervals; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 7-12
19 S. E. Ireland 20 S. W. Ireland	As 5-6

GENERAL INFERENCE.

An intense depression near the Faeroes will move slowly N.E. Wind will be westerly, a gale locally in the North at first, and weather will be showery in the North but mainly fair in the South

FURTHER OUTLOOK.

Unsettled.

Gale warning in operation districts 2, 7, 8, 10, 11, 12, 13, (A & B) 15, 16, 17, and 18. Times of issue 1120h; 1850h, and 2250h on 15/10/41 and 0500 on 16/10/41.

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

Forecasts issued at 1030 G.M.T.

H.M.S.O. Press, Meteorological Office Dunstable. 9.263/4120.Wt.8/76.0.8034.6p.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.)

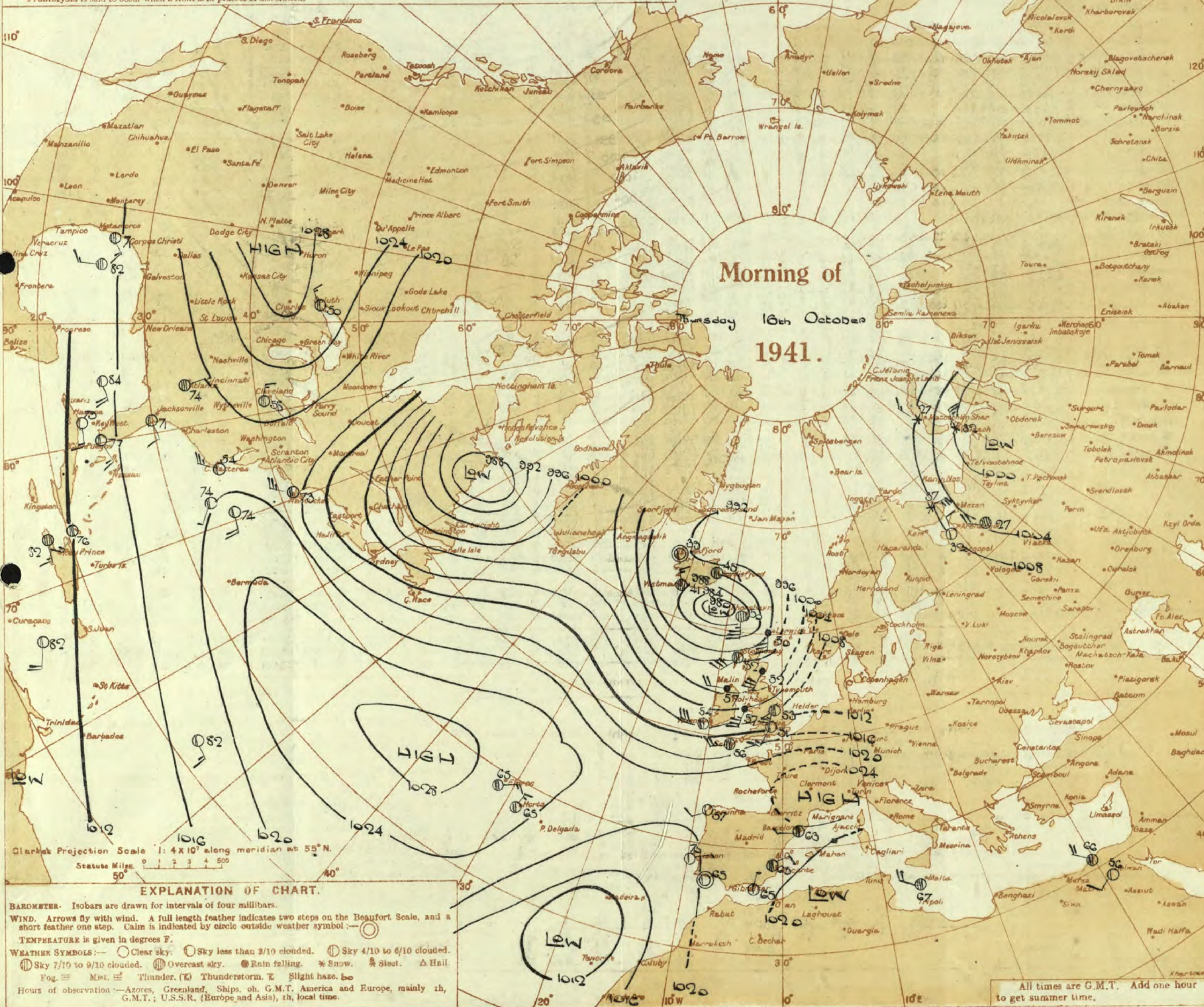
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 16th October 1941.

No. 29183

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1016·2	-24	SSW	3	bc	51	92	6	5	-	-	4-6	4-6	7000
	S. Farnborough	226	1015·7	-30	S'W	3	bc	52	92	6	5	2	-	4-6	4-6	2500
	Boscombe Down	417	1016·1	-30	S'W	3	c	52	92	7	5	7	-	7-8	9+	3300
	Thorney Island	10	1018·0	-12	WSW	3	zo	57	85	6	5	3	7	2-3	10	1500
	Lympne ...	346	1018·6	-18	SW	2	zo	52	85	6	5	-	-	10	10	3500
	Manston ...	154	1017·9	-18	SSW	1	zo	50	85	6	5	-	-	10	10	6500
2	Shoeburyness ...	11	1017·1	-18	SW	3	c	53	85	6	5	7	-	4-6	10	3200
	Felixstowe ...	15	1017·2	-10	SW	3	zo	53	85	6	5	1	-	1	10	7200
	Gorleston ...	5	1016·2	-18	S'W	3	zo	52	75	5	5	-	-	10	10	1000
	Mildenhall ...	19	1014·8	-26	S'W	3	zo	52	85	6	5	-	-	10	10	4000
	Cranwell ...	240	1011·6	-38	WSW	3	zo	52	85	6	5	-	-	10	10	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013·8	-32	SSW	4	zo	53	85	6	5	7	-	4-6	7-8	6000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012·7	-30	WSW	5	c	57	75	7	5	2	-	7-8	9+	1500
	Bristol ...	209	1015·6	-22	SSW	4	id.	55	75	7	5	7	-	7-8	10	1800
	Portland Bill ...	32	1016·5	-22	SW	5	0	59	85	7	5	-	-	10	10	2500
	Plymouth ...	82	1015·9	-22	SW	5	c	58	85	7	8	-	-	10	10	1500
	The Lizard ...	240	1016·3	-16	SW	5	c	57	85	7	5	2	-	1	10	1500
	Scilly (St. Mary's)	163	1015·0	-24	WSW	5	c/d	56	97	6	6	2	-	7-8	7-8	800
	Guernsey ...	175														
6	Pembroke ...	142	1011·5	-24	SW	7	c	58	85	7	8	-	-	9	9	1500
7	Holyhead (Valley)	26	1006·9	-26	S'W	7	ir.	57	97	6	6	2	-	9	10	600
	Chester (Sealand)	16	1009·0	-34	SW	4	id.	58	75	5	5	2	-	7-8	10	2700
8	Manchester ...	235	1005·5	-34	S'E	5	zo	53	92	6	5	-	-	10	10	1200
10	Spurn Head ...	29	1011·0	-20	SW'S	5	cq	53	85	6	8	-	-	9+	9+	2500
	Catterick ...	175	1006·5	-44	SSW	4	id.	53	92	6	5	-	-	10	10	2000
	Tynemouth ...	108	1004·7	-48	S'E	6	c	53	85	7	8	-	-	9+	9+	2500
11	St. Abbs Head	280	1000·6	-44	S	5	c	53	92	7	5	7	-	4-6	9+	2500
	Leuchars ...	36	998·1	-56	SW	4	o/r	55	92	6	5	-	-	10	10	1400
12	Renfrew (Abbotsl.)	19	998·5	-48	SW	5	ro.	56	92	6	5	-	-	10	10	1300
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1002·3	-40	WSW	6	ro.	57	92	7	6	2	-	7-8	10	1000
13A	Tiree	22	996·2	-20	SW'W	3	r	50	97	7	*	2	*	10	10	1300
13B	Stornoway ...	80	992·5	-10	SW	6	c/r	52	92	7	8	7	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	994·1	-40	S	6	ir.	54	85	7	5	2	-	9+	10	1600
16	Sumburgh ...	30	995·3	-62	SSE	6	c/r	51	92	7	6	-	-	10	10	1200
17	Blacksod Point	18	1003·1	+4	W	6	rr	53	85	7	6	-	-	10	10	800
18	Malin Head ...	84	998·4	-18	W	4	RR	53	97	5	6	-	-	9+	9+	450
	Aldergrove ...	268	998·8	-50	S'W	5	rr	56	97	6	9	-	-	10	10	1400
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1008·4	+12	NW'W	5	o/r	54	85	7	5	-	-	10	10	1500
	Roches Point	22	1007·5	-30	SW	6	rr	59	97	6	6	2	-	7-8	10	800

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1011·4	-16	SW	4	zo	55	85	6	5	-	-	9+	9+	2500	1	*
Croydon ...	1012·2	-20	SW	4	c	55	85	8	5	4	-	7-8	10	800	1	*
S. Farnborough	1013·5	-8	SW	5	id.	58	85	6	5	3	-	9+	10	3500	1	*
Boscombe Down	1012·3	-14	SW'S	4	d.d.	54	97	6	6	-	-	10	10	450	1	*
Thorney Island	1013·6	-14	SW	5	ir.	59	75	6	5	2	-	7-8	10	1500	0	*
Lympne ...	1014·8	-18	SW	3	c	55	85	8	5	2	-	2-3	9+	1000	1	§
Manston ...	1013·6	-22	SW	4	c	55	85	8	5	3	-	2-3	3	1500	0	*
Shoeburyness ...	1012·4	-32	SSW	4	c	56	75	7	5	-	-	9+	9+	4000	0	*
Felixstowe ...	1011·2	-40	SSW	5	c/r	55	85	8	5	-	-	7-8	9+	4000	1	
Gorleston ...	1010·9	-32	SSW	3	c/pr	54	75	7	8	-	-	7-8	7-8	2000	0	
Mildenhall ...	1009·4	-26	SSW	4	c	55	85	8	5	3	-	4-6	7-8	2500	0	*
Cranwell ...	1006·3	-22	SSW	4	c	54	85	8	5	2	-	4-6	7-8	1000	0	*
Birmingham ...	1006·3	-18	SSW	4	ir.	53	92	7	6	-	-	9+	9+	800	1	*
Upper Heyford	1010·2	-6	SSW	4	c	55	85	7	5	3	-	9	9+	5000	1	*
Ross-on-Wye	1007·6	-14	SW'S	5	cq	56	85	7	6	1	3	3	9+	1300	1	*
Hartland Point	1009·9	0	NSW	6	ir	57	97	6	5	2	-	7-8	10	1500	1	5
Bristol ...	1010·4	-16	SSW	5	c	56	85	8	5	7	-	9+	10	1000	0	*
Portland Bill ...	1010·4	-10	SSW	5	c	56	85	8	5	7	-	9+	10	1000	0	5
Plymouth ...	1011·9	-14	SW	6	ir	58	92	6	5	-	-	10	10	800	3	5
The Lizard ...	1013·7	+4	SW	5	c	57	97	7	5	2	-	7-8	9+	1500	1	3
Scilly (St. Mary's)	1011·8	-6	N'S	5	c/d	58	85	7	5	-	-	9+	9+	800	1	5
Pembroke ...	1009·0	+12	NW	4	c/r	54	92	7	8	4	-	7-8	7-8	2500	1	4
Holyhead (Valley)	1006·2	+36	W'N	6	bc/r	53	75	8	2	6	4	2-3	4-6	2500	1	5
Chester (Sealand)	1006·0	+10	N	2	c/r	53	85	7	5	4	-	7-8	9	1500	1	*
Manchester ...	1005·9	+2	SW'W	3	rr	51	97	6	5	2	-	4-6	10	800	1	
Spurn Head ...	1004·4	-48	SSW	6	bc/r	54	85	7	7	7	-	4-6	9	4000	1	
Catterick ...	1001·4	-6	NW	2	bc/r	53	85	8	5	7	-	4-6	4-6	2200	1	*
Tynemouth ...	1000·2	+14	W	5	c/r	53	85	7	8	-	-	9+	9+	1400	1	3
St. Abbs Head	995·6	+10	W	6	bcq	51	75	9	5	4	9	4-6	4-6	2500	0	4
Leuchars ...	994·5	+18	W	4	bc	50	85	9	5	-	-	2-3	2-3	4500	1	*
Renfrew (Abbotsl.)	998·4	+18	W'S	4	pr	51	85	7	8	6	-	7-8	7-8	1700	1	*
Eskdalemuir ...	998·4	0	W	6	bc	48	75	8	5	-	-	2-3	2-3	2500	1	*
Point of Ayre ...	1002·3	+18	WNW	6	bc	52	85	8	8	4	5	1	2-3	2000	1	5
Tiree	997·4	+14	WNW	5	bc	51	85	8	8	-	-	4-6	4-6	1500	1	
Stornoway ...	990·8	-6	WSW	4	pr	49	85	8	8	7	-	7-8	10	1800	1	
Dalwhinnie ...	995·1	-2	SW	2	c	44	85	7	5	-	-	7-8	7-8	2500	1	*
Aberdeen ...	992·7	+4	W'N	2	c/r	51	92	7	6	2	-	4-6	10	1100	1	
Wick ...	990·4	-12	WSW	3	ro.	49	85	8	5	2	-	4-6	10	1800	1	
Sumburgh ...	988·8	-26	NSW	6	RR	51	92	6	6	-	-	10	10	1000	1	*
Blacksod Point	1006·0	+18	W	6	bc	52	75	8	9	-	-	4-6	4-6	1500	1	4
Malin Head ...	1000·4	+18	W	5	c	52	75	8	2	7	-	4-6	7-8	2500	1	5
Aldergrove ...	1003·2	+20	SW'W	4	b	49	92	7	8	4	3	1	1	2500	1	*
Birr Castle ...	1008·0	+10	SW	2	c/pr	49	92	8	5	7	-	2-3	7-8	1500	1	*
Valentia Obsy.	1011·3	+16	N'N	4	bc	55	75	8	8	-	1	4-6	4-6	2500	1	4
Roches Point	1010·7	+22	WNW	3	bc	52	85	8	5	-	5	2-3	4-6	2500	1	4

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 15th Hrs. (36)
London (Kew)	58	51	46	-	Tr	5·1
Croydon ...	59	49	47	-	Tr	5·2
S. Farnborough	59	51	45	-	Tr	1·5
Boscombe Down	57	50	47	-	0·3	2·7
Thorney Island		53	48			*
Lympne ...	50	40		-	0·1	
Manston ...	59	45	42	-	-	4·3
Shoeburyness ...	61	51	42	-	-	5·6
Felixstowe ...	60	51	45	-	Tr	5·6
Gorleston ...	57	45	*	-	Tr	*
Mildenhall ...	59	49	40	-	-	2·9
Cranwell ...	57	48	46	-	-	2·2
Birmingham ...	55	51	49	0·1	Tr	3·0
Upper Heyford	57	51	49	-	Tr	*
Ross-on-Wye	58	53	51	-	-	2·0
Hartland Point	57	55	54	Tr	0·3	0·0
Bristol ...	59	53	51	-	Tr	2·4
Portland Bill ...	58	56	*	-	-	*
Plymouth ...	58	56	53	Tr	0·2	0·1
The Lizard ...	60	55	*	-	0·5	1·7
Scilly (St. Mary's)	61	56	*	-	0·2	2·1
Pembroke ...	58	53	*	1	2	0·0
Holyhead (Valley)	57	51	48	0·2	18	*
Chester (Sealand)	59	52	50	-	5	1·3
Manchester ...	55	50	49	-	4	*
Spurn Head ...		47	*	-	Tr	1·3
Catterick ...	57	51	48	-	0·6	0·4
Tynemouth ...	55	52	47	-	1	*
St. Abbs Head	56	49	*	-	2	*
Leuchars ...	58	50	45	0·1	3	5·3
Renfrew (Abbotsl.)	55	49	47	0·3	12	0·0
Eskdalemuir ...	54	45		-	33	
Point of Ayre ...	56	51	*	-	5	0·0
Tiree	54	50	*	2	17	0·0
Stornoway ...	54	48	*	2	4	1·6
Dalwhinnie ...	52	43	41	0·1	13	2·0
Aberdeen ...	58	51	48	-	8	6·7
Wick ...	56	48	46	0·1	4	*
Sumburgh ...	53	49	*	-	7	
Blacksod Point	60	49	*	12	12	*
Malin Head ...	55	47	*	0·5	3	0·0
Aldergrove ...	53	48	45	1	9	0·0
Birr Castle ...	56	48	45	2	4	0·0
Valentia Obsy.	60	52	48	1	4	0·0
Roches Point	59	52	*	2	4	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cm.wbc,	bcc zo	cbccd.d.	58	51	46	-	Tr	5·1	•	•	7
Croydon	217	cm.	cycz.	cm.rm.r	59	59	47	-	Tr	5·2	•	•	7
Greenwich (Royal Observatory)...	149	bcb	bccyc	cid.	58	51	41	-	Tr	4·8	51	82	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	59	56	47	—			89	84	*
Regents Pk. (Botanic Gardens)†...	168	*	*	*	59	50	41	-	-		67	82	*
Camden Square	110	bc	bc	*	60	51	46	-	-	*	*	83	*
Kensington	80	bc	bc	*	60	51	46	-	-		70	85	*
Hampstead Observatory	450	bc	bc	0	59	50	45	-	-		*	88	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 16th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0.2	18h 15th	<0.1	1–7h 16th

FOREIGN OBSERVATIONS.

Evening of 15th October

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	993·0	ESE	2	c/r	41
Lisbon (18h and 07h)	1018·0	WNW	2	zo	73
¶Madrid (18h and 07h)					
Cairo (Heliopolis) (18h and 06h)					
Toronto (13h and 01h)					
Washington (13h and 01h)					

Morning of 16th October

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
990·4	-	0	b	36
1021·1	W	2	F	63
994·7	N	1	bc	55
1021·2	-	0	bc	63

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
86	61	-	-
	*		-
86	55		-

¶Pressure at 1,000 dynamic metres level.

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Friday 17th October, 1941.

No. 23,184.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1011·4	-4	W'N	2	c/r	58	75	7	8	7	–	4-6	9	1500
	Croydon	1011·6	+2	WSW	3	pr	57	92	7	9	4	–	9	9+	800
	S. Farnborough	1011·7	+2	W'S	4	c/pr	57	85	8	7	7	–	4-6	9+	2000
	Boscombe Down	1012·4	+6	WNW	4	c	59	75	7	1	–	8	2-3	7-8	2500
	Thorney Island	1012·7	0	W	4	ir	57	92	7	6	2	–	7-8	10	800
	Lympne	1013·0	-10	SW	4	dodo	58	92	6	5	–	–	10	10	500
	Manston	1011·1	-12	SW	5	ido	59	85	7	5	4	–	9	9+	800
2	Shoeburyness	1011·0	-2	SW	3	iro	59	92	7	5	–	–	10	10	1200
	Felixstowe	1009·3	-10	SW'S	4	ido	59	92	6	5	7	–	9+	10	800
	Gorleston	1008·9	-6	SW'W	3	c	59	85	7	8	–	–	10	10	1500
	Mildenhall	1009·8	+14	W'N	3	bc	57	85	8	8	7	2	4-6	4-6	4000
	Cranwell	1008·8	+14	W	4	bc	59	55	8	1	4	1	2-3	4-6	2500
3	Birmingham	1010·2	+12	WNW	3	bc	59	55	8	8	–	6	4-6	4-6	2500
	Upper Heyford	1010·7	+6	WNW	4	bc	60	63	9	2	–	9	4-6	4-6	2000
4	Ross-on-Wye	1011·6	+10	NW'W	4	bc	57	55	9	1	–	9	2-3	2-3	3500
5	Hartland Point	1013·7	+12	WNW	3	bc	58	75	8	1	4	1	2-3	4-6	1500
	Bristol	1013·0	+12	W	5	bc	60	63	8	1	–	9	2-3	2-3	2500
	Portland Bill	1013·3	+18	W	4	c	58	85	8	2	4	–	4-6	7-8	4000
	Plymouth	1013·6	+10	WNW	3	bc	61	65	8	1	4	6	2-3	4-6	2500
	The Lizard	1015·3	+10	W	3	bc	59	85	8	8	6	–	4-6	4-6	2500
	Scilly (St. Mary's)	1015·9	+12	NW'W	3	c	60	75	8	8	5	5	1	9	1500
	Guernsey														
6	Pembroke	1012·6	0	W	6	bc	58	75	8	1	4	–	2-3	4-6	3000
7	Holyhead (Valley)	1009·9	+14	WNW	6	c	58	65	8	2	–	6	2-3	9	2000
	Chester (Sealand)	1009·4	+10	W'N	8	c	58	65	8	2	6	8	2-3	7-8	2500
8	Manchester	1009·5	+22	WSW	5	c	56	65	8	2	6	6	7-8	7-8	2500
10	Spurn Head	1007·3	+2	WSW	5	bcq	58	65	7	8	4	–	2-3	4-6	2500
	Catterick	1006·6	+18	W	4	c	59	55	8	2	6	–	4-6	7-8	2800
	Tynemouth	1004·3	+12	W	6	bc/pr	55	65	8	2	–	–	4-6	4-6	2500
11	St. Abbs Head	1000·6	+22	W	6	bcq	53	65	9	4	4	–	2-3	2-3	2500
	Leuchars	999·6	+20	WSW	6	bc	55	65	9	2	–	–	2-3	2-3	4000
12	Renfrew (Abbots L.)	1002·9	+18	W	4	bc/pr	53	75	9	3	–	–	4-6	4-6	2000
	Eskdalemuir	1003·7	+10	W'N	7	c/phr	46	75	8	5	–	–	7-8	7-8	1500
	Point of Ayre	1006·9	+12	WNW	6	bc	57	65	8	2	–	6	1	2-3	2000
13A	Tiree	1002·2	+20	NW'W	4	bc/pr	50	85	8	8	–	–	4-6	4-6	1500
13B	Stornoway	998·8	+36	WSW	6	pr	50	75	8	2	7	2	4-6	7-8	2000
15	Dalwhinnie	1000·3	+16	W	3	ir	44	85	7	5	–	–	10	10	2500
	Aberdeen	997·6	+16	WNW	3	bc	56	55	9	7	4	3		2-3	2400
	Wick	994·6	+22	W'S	5	pr	50	85	8	9	6	–	4-6	7-8	2500
16	Sumburgh	988·8	+12	W	7	c/+lro	51	85	5	8	–	1	7-8	7-8	1800
17	Blacksod Point	1009·3	+14	W'S	5	bc/pr	54	75	8	2	–	3	2-3	4-6	2500
18	Malin Head	1004·8	+22	NW	8	cjp	54	65	8	3	–	–	7-8	7-8	2500
	Aldergrove	1008·5	+30	WNW	4	cjp	51	75	8	3	6	3	4-6	7-8	2500
19	Birr Castle	1011·1	+14	W	2	bc	55	75	8	5	–	–	2-3	2-3	2500
20	Valentia Obsy. †	1014·6	+10	NW'W	4	pr	54	65	9	8	–	–	4-6	4-6	2500
	Roches Point	1013·5	+8	W'N	4	bc	59	65	8	3	–	–	4-6	4-6	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1014·4	+20	WSW	2	zo	54	75	5	7	–	–	2-3	2-3	2500	1	•
Croydon	1014·5	+18	NW	1	zo	51	85	5	1	4	–	Tr	Tr	2000	1	•
S. Farnborough	1014·8	+22	W	2	b	53	85	8	4	4	1	Tr	1	3000	1	•
Boscombe Down	1015·5	+26	W'N	3	b	51	85	7	–	–	1	0	1	–	1	•
Thorney Island	1015·0	+18	W	2	b	54	75	6	–	–	9	0	Tr	–	1	•
Lympne	1015·3	+20	SW	1	zo	53	97	5	5	7	2	Tr	4-6	100	1	§
Manston	1013·8	+10	SW'W	2	zo	51	92	5	–	3	2	0	4-6	–	1	•
Shoeburyness	1013·8	+18	W	2	b	54	85	5	5	–	–	Tr	Tr	1500	1	•
Felixstowe	1012·4	+12	W'S	2	zo	56	85	6	7	–	5	1	2-3	4000	1	2
Gorleston	1012·1	+22	W	2	bc	53	65	7	6	3	–	2-3	4-6	2500	0	3
Mildenhall	1012·6	+22	SW'W	2	bc	52	85	7	–	3	1	0	4-6	–	0	•
Cranwell	1011·9	+22	W	3	bc	49	85	7	5	–	–	2-3	2-3	2000	0	•
Birmingham	1013·3	+20	SW	2	c	52	65	6	5	–	–	7-8	7-8	2500	1	•
Upper Heyford	1013·8	+18	W'S	3	b	50	85	8	–	3	–	0	Tr	–	1	•
Ross-on-Wye	1014·3	+20	SW'W	3	bc	53	75	8	8	–	1	2-3	2-3	3000	1	•
Hartland Point	1015·4	+18	WNW	3	bc	56	75	8	2	–	3	4-6	4-6	1500	0	4
Bristol	1015·2	+10	W	3	b	52	85	8	2	–	1	1	1	2500	0	•
Portland Bill	1016·0	+12	W	4	c	58	92	8	5	4	–	4-6	7-8	4000	0	4
Plymouth	1016·8	+14	WNW	3	c	56	85	7	2	–	4	2-3	7-8	2000	0	3
The Lizard	1017·4	+16	W'S	4	bc	56	92	8	8	6	5	4-6	4-6	2500	0	3
Scilly (St. Mary's)	1017·6	+14	NW'W	3	c	56	85	8	8	4	5	2-3	7-8	1500	1	4
Guernsey																
Pembroke	1014·8	+6	W	4	bcjp	57	75	8	2	6	8	2-3	4-6	3000	0	4
Holyhead (Valley)	1011·9	+16	W	5	bc/pr	51	75	8	2	6	–	1	2-3	2500	1	4
Chester (Sealand)	1011·7	+18	W'S	4	bc	54	65	8	3	–	–	4-6	4-6	2500	0	•
Manchester	1011·8	+16	SW	2	c/pr	51	85	7	3	–	3	7-8	7-8	2000	1	•
Spurn Head	1010·9	+6	W	4	bc	55	65	7	2	6	–	2-3	4-6	2500	0	4
Catterick	1009·4	+14	W'S	3	bc	50	75	8	5	6	–	2-3	4-6	2400	1	•
Tynemouth	1008·1	+28	W	4	zo	50	75	6	2	4	–	2-3	4-6	2600	1	2
St. Abbs Head	1004·3	+14	W	6	bcq	49	92	8	4	4	–	2-3	2-3	2500	0	4
Leuchars	1003·8	+22	WSW	4	b	46	85	8	2	4	–	Tr	1	3500	1	•
Renfrew (Abbots L.)	1007·4	+26	W	3	bc/pr	46	85	8	3	–	1	4-6	4-6	2000	1	•
Eskdalemuir	1007·1	+20	W'S	4	bc	46	75	8	5	–	–	4-6	4-6	1500	1	•
Point of Ayre	1009·9	+2	WNW	5	pr	52	75	8	8	–	–			3000	1	5
Tiree	1004·3	+12	W'N	5	bc/pr	52	75	8	8	–	–	4-6	4-6	2500	0	6
Stornoway	999·2	+2	SW	5	pr	47	85	7	8	7	–	4-6	7-8	2000	1	2
Dalwhinnie	1004·2	+20	W	4	c	43	75	7	5	–	–	7-8	7-8	2500	1	•
Aberdeen	1002·9	+32	SW'W	2	b	48	75	6	5	4	3	1	1	4900	1	2
Wick	998·7	+18	WSW	4	bc/pr	45	85	9	3	–	3	2-3	2-3	3000	1	*
Sumburgh	993·2	+30	W	7	bc	51	85	8	8	–	–	4-6	4-6	1500	1	7
Blacksod Point	1011·4	+16	W'N	6	c/pr	51	75	8	9	–	–	7-8	7-8	2500	1	4
Malin Head	1007·3	+16	W	4	c	52	65	8	9	–	–	7-8	7-8	4000	0	4
Aldergrove	1010·3	+26	WSW	3	b	49	85	8	8	–	3	1	1	2500	1	•
Birr Castle	1013·3	+10	W	1	c	49	75	8	8	–	–	7-8	7-8	1500	1	•
Valentia Obsy. †	1015·9	+12	WNW	4	pr	54	65	9	3	–	3	9	9	2500	1	4
Roches Point	1015·5	+14	W'N	3	c	54	85	8	3	3	–	4-6	7-8	1500	1	4

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 16th (37)	13h.—18h. 16th (38)	18h. 16th to 1h. 17th (39)	1h.—7h. 17th (40)
London (Kew)	irododirc	cbcbmo	bmowo	bbccrocmo
Croydon	oddoDpro	prococzo	bmow	c
S. Farnborough	pr	cbcb	bwobcmo	bcmociro
Boscombe Down	cddodirbc	b	bc, b	bmocmo
Thorney Island	omoiro	oirocbcbmo	bmobcmow	cmocfgw
Lympne	cmododo	mopcdr	bcbmoff	offgcmo
Manston	cido	cidorrbcmo	bmowb	bccmoc
Shoeburyness	idoiroc	iroprobmo	bmow	bmowmoc
Felixstowe	qidomo	cidombcm	bmom bmo	bcmocmow
Gorleston	cproc	bc	bcbzow	bbcczo
Mildenhall	ciromockq	bc	bcbbmo	bmocmow
Cranwell	bccprrocbc	cbc	bmo	bcmocmo
Birmingham	cKrobc	bc	prob	b, c
Upper Heyford	cirbc	byb	bcmob	bbcc
Ross-on-Wye	cdqPRbc	bcvybv	b	bcc
Hartland Point	cbc	bccbc	cpro	cbcpr
Bristol	cirocbc	bc	bcpro, b	bcpr, c
Portland Bill	orrc	bcc	bc	cpr
Plymouth	cRrrmoc	c	bc, bcm	cmo bccb
The Lizard	cbc	bc	bcc	cprcbc
Scilly (St. Mary's)	cdrc	c	c	cbc
Guernsey				
Pembroke	bc	bc •	bc	bcc
Holyhead (Valley)	bcc	bccpR	bcbbc	c
Chester (Sealand)	bcc	cbc	bcprbw, bw	bccmow
Manchester	c	bccphrPR	bmo	bcmoc
Spurn Head	cqbcq	bc	b	c
Catterick	bcbcy	bccybc	bcbmow	bmowbcpris
Tynemouth	bcqirbcpB	bcp	bbcmo	bcmo
St. Abbs Head	bcq	bcq	bcq, bq	bc
Leuchars	ccv	prq, probcb	b	probcproc
Renfrew (Abbots L.)	cpro bc	bcPR	pro PRb	cprbc
Eskdalemuir	bcprhbc	bcpr	bccpr	c
Point of Ayre	bbc	bccpro	cbcb	bccbc
Tiree	cPHR	bcpr	pr	bccpr
Stornoway	cpr	cpr	cprlbcl	bcprlbcc
Dalwhinnie	oir	cpr		cir
Aberdeen	bcybyb	bybccbczo	czo	bczq
Wick	cprobcpro	cproc	cprobclcpro	bcblbc
Sumburgh	tlr	cprcbc	pr	bccpr
Blacksod Point	prbc	prcq	prcbc	rrqt
Malin Head	cjpc	c	bcprbc	c
Aldergrove	bcjp	jpPRcb	bbc	bcc
Birr Castle	cprbc	bcc	*	bcc
Valentia Obsy. †	bcpro	bccpro	cproc	cprbcq
Roches Point	bc	bcc	bcc	bcc

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/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/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.

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,-Ci: Cirrocumulus,-Cc: Cirrostratus,-Cs: Altocumulus,-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.

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.

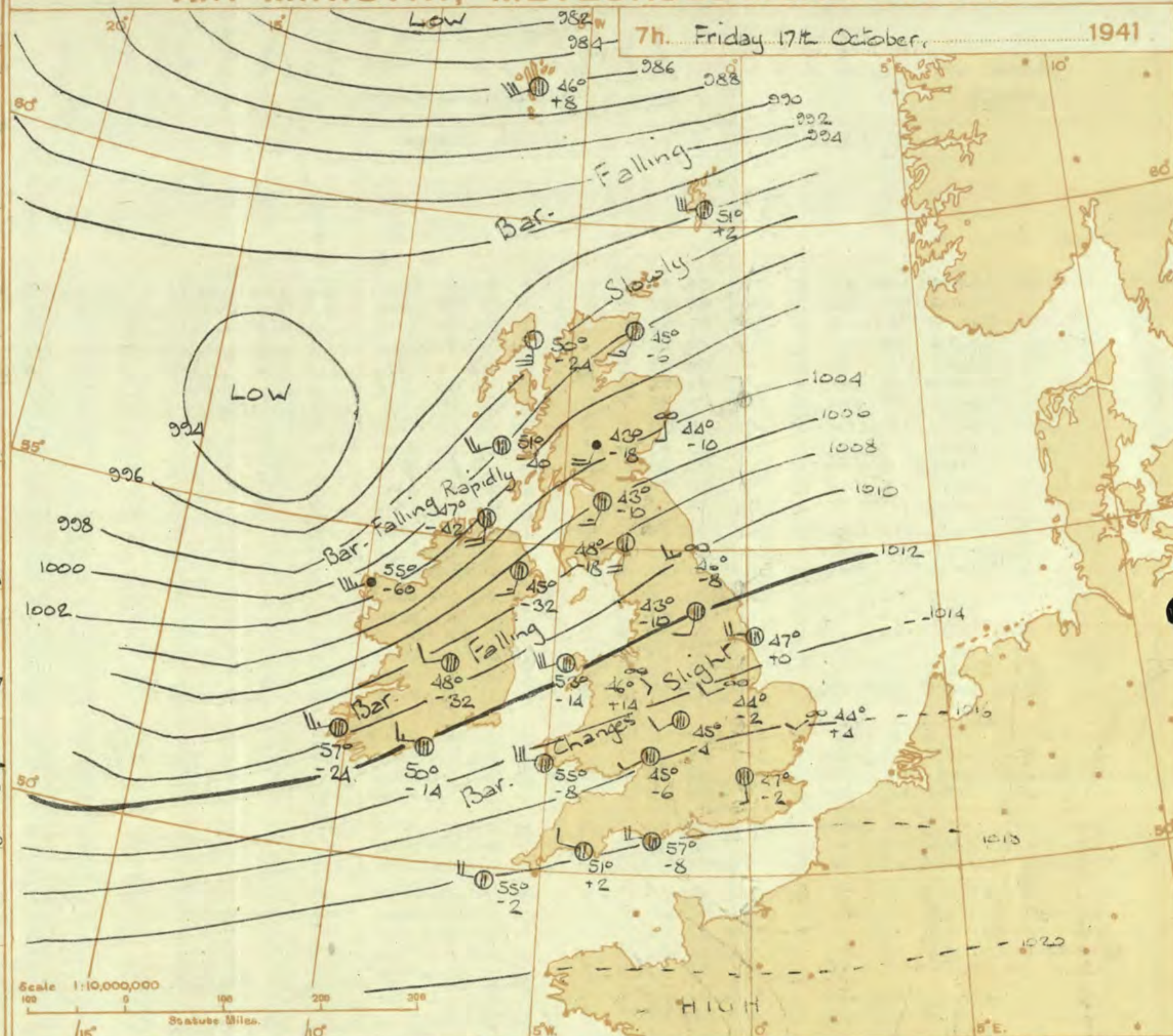
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 17th October, 1941

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 16th October			18h. G.M.T.			01h. G.M.T. 17th October			07h. G.M.T.		
III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	87	02855	55785	97	25845	20685	9-	01854	54684	9-	10854	51515
115	87	81844	57686							87	81844	53586
203							9-	02838	24788	9-	02838	20718
206	96	02955	55485	86	82854	22485	30	00852	55482	5-	02966	22326
210	86	81944	55684	96	01954	20484	50	00962	19212	07	02990	19207
220	80	01854	26584	80	02856	27686				82	03755	22528
230	86	10756	57587	26	01854	22385	30	81754	53584	87	02746	22488
245	36	10963	56414	46	00961	23411	50	00863	02213	20	02841	22317
260	30	93854	55584	80	00752	22483	50	00761	24301	04	01990	20415
278	34	00853	24603	86	01853	24484	54	00862	21402	57	01862	20315
279	20	01855	22515	80	01853	55484	50	01853	22313	87	02844	20516
285	26	01854	24615	23	81744	26584				23	25635	26487
288	8-	25854	55484				50	05662	18202	5-	02854	17316
575	53-	25854	25484	20	01853	22383	20	02854	20285	52	61653	18368
301	2-	01854	56514	80	01863	59513	2-	01854	57504	23	01854	56514
321	80	05654	25314	80	25652	24282	50	81654	21304	07	05590	19287
299	87	01853	22425	50	00752	24302	50	00752	24302	50	01754	20214
292	20	01954	55414	40	00852	23312	50	01654	17214	57	05655	18217
310	--	01644	24414	--	01643	24413				--	05635	24415
614	20	01764	26464	80	08454	25184	50	08453	24203	11	46381	20148
333	20	01953	24515	8-	01953	24413	10	01851	22203	14	01953	20313
334	--	02646	28317	--	01752	22303				--	02644	24315
340	10	01954	24314	80	25965	22385	03	01790	17213	57	02952	18327
136				19	01744	22314	00	05690	20214	07	05690	20227
336	14	02763	24416	24	02762	28415				54	02762	20316
350												
368							5-	25646	24186	80	25644	24384
379	20	01844	26564	40	00862	24412	00	05690	22200	—	46109	20289
390	87	61535	24357	40	05661	26111	00	05590	22103	57	22456	18217
382	26	02854	26425	44	00861	24102	00	05690	21214	53	02764	20125
438	62	51735	22628									
430	63	81755	89387				00	05490	26115	62	02744	24216
409	50	01853	26465	80	01753	26284	5-	01764	26115	33	02853	22385

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



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.

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

DISTRICTS.	
1 S.E. England 2 E. England ... ✝ 3 E. Midlands ...	Southwest winds becoming fresh, veering west; a period of rain this evening and tonight, otherwise considerable fair periods; average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ... ✝	Fresh S.W. winds, strong locally on coast, veering west; cloudy with some rain at first, then bright periods with a few showers; average temperature.
7 North Wales ... ✝ 8 N.W. England ✝ 9 N. Midlands ... 10 N.E. England ✝ 11 S.E. Scotland ✝	Winds S.W. increasing fresh to strong with gale locally on coasts, veering west; cloudy; rain spreading from west, followed by bright periods and showers; average temperature.
12 S.W. Scotland & Isle of Man. ✝ 13A. W. Scotland ✝ 13B. N.W Scotland ✝ 14 Mid Scotland 15 N. E. Scotland ✝ 16 Orkneys and Shetlands ✝	S. to S.W. gale at times on the coast; dull and rainy at first; then brighter intervals, but further occasional rain or showers; average temperature.
17 N. W. Ireland ✝ 18 N. E. Ireland ✝ 19 S. E. Ireland ✝ 20 S. W. Ireland ✝	Rather squally fresh to strong W. to N.W. winds, gale locally on North coast at first, moderating, showers and bright intervals; average temperature

GENERAL INFERENCE.

A deep depression north of Faeroes is moving north and becoming less deep, whilst an active secondary off N.W. Ireland will move quickly ENE and later turn more north. Strong winds with a gale in places will develop in the west and north and a period of rain will spread across most districts, but falls are expected to be small in the southeast.

FURTHER OUTLOOK.

Generally unsettled westerly type continuing.

✝ Gale warning in operation districts 2, 6, 7, 8, 10, 11, 12, 13 (A and B) 15, 16, 17, 18, 19 and 20. Times of issue 1120h, 1850h and 2250h on 15/10/41 0500h 16/10/41 and 0645h on 17/10/41

Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Meteorological Office Dunstable. 0269/4120 Wt. 8/76 D 6034 Gp 346 3300 10/41

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 dissipation.

Morning of Friday 17th October 1941.

Clarke Projection Scale 1: 4 X 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 17th October 1941.

No. 29,184.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1017·0	+4	SW	2	Zo	49	85	6	–	4	6	0	4-6	–
	S. Farnborough	226	1017·6	+4	W'S	2	Zo	46	92	6	5	–	1	2-3	4-6	3000
	Boscombe Down	417	1017·8	+2	SW'W	2	Zo	46	97	6	5	–	–	Tr	Tr	5000
	Thorney Island	10	1017·9	+6	–	0	Zo	44	97	5	–	–	7	0	4-6	5000
	Lympne	346	1018·2	+6	–	0	bf	40	97	2	–	–	–	0	0	–
	Manston	154	1017·6	+14	W'S	2	b	44	92	7	–	–	–	0	0	–
2	Shoeburyness	11	1017·0	+12	W'S	2	b	49	92	5	–	–	–	0	0	–
	Felixstowe	15	1015·7	+10	SW'W	3	Zo	49	85	6	–	–	–	0	0	–
	Gorleston	5	1015·2	+4	WSW	2	Zo	47	85	6	–	–	–	0	0	–
	Mildenhall	19	1016·0	+10	SW'S	2	b	44	97	6	–	–	–	0	0	–
	Cranwell	240	1014·9	+4	SW	2	Zo	44	92	6	–	3	–	0	1	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1016·4	+6	SW	2	b	44	92	7	–	4	–	0	1	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1016·8	–2	W	4	c/r	56	75	8	2	2	–	4-6	10	1500
	Bristol	209	1017·0	+2	SW	3	b/pr	50	92	7	4	–	–	1	1	2600
	Portland Bill	32	1017·5	+2	W	4	bc	57	85	7	2	–	–	4-6	4-6	4000
	Plymouth	82	1017·8	+2	–	0	c	47	97	5	1	–	7	1	7-8	2000
	The Lizard	240	1018·9	–2	W'S	3	c	55	92	8	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	163	1018·8	0	NW'W	3	c/pr	55	92	8	8	–	–	9	9	200
	Guernsey	175														
6	Pembroke	142	1016·6	0	WNW	4	bc	55	75	8	2	–	–	2-3	2-3	4000
7	Holyhead (Valley)	26	1013·8	+4	SW'W	6	bc	50	75	8	5	4	–	1	4-6	2500
	Chester (Sealand)	16	1014·4	+6	SW	1	bc	46	85	7	–	4	1	0	4-6	–
8	Manchester	235	1014·3	+8	S	3	Zo	43	92	6	–	–	–	0	0	–
10	Spurn Head	29	1013·4	+2	WSW	4	b	49	85	6	–	–	–	0	0	–
	Catterick	175	1012·5	+6	SW	2	Zo	45	85	6	5	–	–	Tr	Tr	2500
	Tynemouth	108	1011·0	+8	SW	3	Zo	46	85	6	–	4	–	0	1	–
11	St. Abbs Head	280	1007·6	+2	W	6	b	45	75	8	4	4	–	Tr	1	2500
	Leuchars	36	1006·0	–2	WSW	4	b	44	92	8	4	–	–	Tr	Tr	4000
12	Renfrew (Abbots I.)	19	1007·9	–2	WSW	5	b/pr	49	75	7	1	–	–	1	1	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1011·6	+2	W	4	bc	50	85	8	2	–	5	Tr	Tr	4500
13A	Tiree	22	1005·0	0	W	4	pr	50	85	7	8	–	–	7-8	7-8	1500
13B	Stornoway	80	1000·3	+2	SW	5	bc	47	92	8	8	–	–	4-6	4-6	2300
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	1000·5	+2	SW'W	5	bc	45	85	8	3	–	–	2-3	2-3	1500
16	Sumburgh	30	995·9	+6	WSW	8	bc	50	85	7	8	–	–	4-6	4-6	1500
17	Blacksod Point	18	1010·2	–12	W	4	bc/pr	52	75	8	9	–	–	4-6	4-6	1500
18	Malin Head	84	1007·8	–2	S'W	4	c/phr	48	85	5	4	6	–	4-6	7-8	5700
	Aldergrove	268	1011·6	–2	SW'S	3	bc	46	92	7	4	6	6	1	4-6	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1015·8	–6	SW'W	4	c	53	75	8	8	–	–	7-8	7-8	2500
	Roches Point	22	1016·3	–6	W	3	c	51	85	8	5	–	–	7-8	7-8	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Med. (24)	High (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 16th Hrs. (36)
1	London (Kew)	1016·5	–6	WSW	2	Zo	48	92	5	5	7	–	7-8	9+	2500	1	*	60	45	36	0·2	Tr	1·3
	Croydon	1016·9	–2	SSE	1	c	47	92	6	5	–	6	7-8	9+	5000	1	*	61	46	43	1	–	0·9
	S. Farnborough	1016·9	–2	WSW	3	iro	48	97	7	5	7	–	4-6	9+	5000	1	*	60	45	33	1	Tr	1·0
	Boscombe Down	1017·4	–2	SSW	2	fg	44	97	6	2	6	8	1	4-6	2000	1	*	60	43	35	1	Tr	3·4
	Thorney Island	1017·4	–2	N	1	fg	44	97	7	7	7	–	9	9+	4000	1	*	61	42	30	4	Tr	*
	Lympne	1018·0	–2	SW	1	c	44	97	8	5	7	–	7-8	9+	6000	1	§	59	40	35	1	–	0·2
	Manston	1016·9	0	SW	2	c	47	92	7	–	7	–	0	10	–	1	*	61	43	40	1	0·1	0·8
2	Shoeburyness	1016·7	–2	SW'W	2	c	50	85	6	5	7	6	2-3	10	4000	1	*	62	47	37	0·4	–	1·3
	Felixstowe	1015·7	0	WSW	3	Zo	46	97	5	–	7	7	0	10	–	1	2	61	45	41	0·4	–	0·6
	Gorleston	1015·8	+4	SW	2	Zo	44	85	6	5	–	–	10	10	1500	0	2	60	43	36	Tr	–	*
	Mildenhall	1015·6	–2	SW'S	3	Zo	46	97	6	–	7	1	0	9	–	0	*	63	41	32	0·3	Tr	3·7
	Cranwell	1014·4	–2	SW	2	Zo	44	92	6	5	7	2	Tr	7-8	3000	0	*	60	40	36	Tr	–	4·2
3	Birmingham	1015·1	–4	SW	2	c	45	85	8	5	7	–	2-3	9+	4000	1	*	60	44	40	5	Tr	5·3
	Upper Heyford	1013·8	–6	SW	3	Zo	45	97	6	5	7	6	1	9	4000	1	*	60	43	36	2	–	*
4	Ross-on-Wye	1015·4	–6	SW	1	c	45	92	8	2	2	–	Tr	9+	3000	1	*	61	44	37	4	–	6·2
5	Hartland Point	1016·1	0	SW	3	c/pr	54	85	8	2	4	5	4-6	7-8	1500	1		59	51	50	2	1	7·1
	Bristol	1016·5	–6	SW'S	3	c	49	92	7	8	3	–	9	9+	2000	1	*	61	49	41	1	2	5·6
	Portland Bill	1016·6	–8	WSW	4	c	57	92	8	2	4	–	4-6	10	2500	0	4	59	54	*	1	0·2	*
	Plymouth	1017·2	+2	W'N	2	bc	51	97	8	5	4	–	2-3	2-3	2000	0	2	63	46	41	1	Tr	5·1
	The Lizard	1017·9	–2	W	4	bc	54	92	8	8	6	–	4-6	4-6	1500	1	3	60	52	*	3	1	5·5
	Scilly (St. Mary's)	1018·1	–2	WNW	4	bc	55	85	8	8	4	–	4-6	4-6	1200	1	4	63	53	*	3	0·2	4·4
	Guernsey																						
6	Pembroke	1014·8	–8	W'S	6	c	55	75	8	8	4	–	4-6	7-8	2500	1	4	59	52	*	Tr	0·3	7·8
7	Holyhead (Valley)	1011·0	–14	SW'W	6	c	53	65	8	2	6	–	2-3	9	2500	0	5	60	50	46	3	–	*
	Chester (Sealand)	1013·0	–14	SE	1	Zo	46	85	6	5	4	2	2-3	7-8	4000	1	*	60	46	(42)	–	Tr	7·3
8	Manchester	1013·7	–2	SSE	3	c	44	92	7	–	7	5	0	9+	–	1	*	58	42	38	1	1	*
10	Spurn Head	1013·2	0	WSW	4	c	47	85	6	5	3	–	4-6	7-8	4000	0	5	58	30	*	–	–	
	Catterick	1011·4	–10	SSW	2	c/r	43	92	7	5	7	–	7-8	9+	2500	2	*	59	42	32	Tr	Tr	0·7
	Tynemouth	1010·1	–8	SW	3	Zo	46	85	6	–	4	–	0	4-6	–	1	2	56	41	39	0·2	–	*
11	St. Abbs Head	1006·6	–12	SW	5	bc	43	85	8	4	4	9	2-3	4-6	2500	1	3	54	41	*	Tr	–	*
	Leuchars	1004·6	–14	WSW	6	c	46	92	7	4	–	7	1	9+	3100	1	*	56	44	39	0·5	Tr	8·1
12	Renfrew (Abbots I.)	1005·5	–18	S'W	4	c	48	85	7	8	3	3	2-3	4-6	2000	1	*	55	45	37	4	1	5·4
	Eskdalemuir	1008·3	–10	SSW	3	c	43	92	8	5	–	–	7-8	7-8	1500	1		54	40	36	0·5	0·4	6·2
	Point of Ayre	1008·8	–12	W'S	4	bc	49	85	8	5	4	5	2-3	4-6	5000	0	4	57	48	*	0·1	–	7·2
13A	Tiree	999·7	–40	SW	5	c	51	85	7	5	–	–	9	9	1800	0	6	47	45	*	3	2	3·8
13B	Stornoway	997·2	–24	S	5	bc	50	85	8	8	7	–	4-6	4-6	2000	1	3	52	46	*	0·2	1	3·0
15	Dalwhinnie	1003·4	–18	SSW	4	iro	43	92	6	5	3	–	7-8	7-8	1500	1	*	53	39	35	8	3	1·7
	Aberdeen	1003·6	–10	S'E	1	Zo	44	85	6	5	–	3	Tr	4-6	2900	1	2	57	42	36	–	–	5·6
	Wick	999·8	–6	SW'S	3	c	45	85	9	1	7	–	Tr	9+	2500	1	*	54	46	[illegible]	0·5	0·1	*
16	Sumburgh	996·6	+2	WSW	6	c/pr	51	85	8	8	–	6	7-8	7-8	2000	1	7	52	46	42	3	6	1·2
17	Blacksod Point	1000·7	–60	SW	7	rr	55	97	7	6	–	–	10	10	1500	2	5	56	49	*	1	9	15·0
18	Malin Head	1001·4	–42	S	4	c	47	85	8	6	–	–	7-8	7-8	2500	0	4	55	45	*	1	0·3	5·6
	Aldergrove	1006·6	–32	S'W	3	c	45	85	7	1	7	6	Tr	9	2500	1	*	56	42	37	3	–	6·5
19	Birr Castle	1009·2	–32	WSW	2	c	48	85	8	5	1	–	7-8	10	2500	1	*	58	44	39	1	–	5·4
20	Valentia Obsy.	1011·7	–24	SW'W	5	c	57	75	8	5	–	–	10	10	2500	1	4	58	50	46	0·1	0·1	7·1
	Roches Point	1013·4	–14	W	3	c	50	92	8	5	–	–	9+	9+	1500	1	4	60	49	*	0·2	–	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	ir₀d₀d	ir₀c c b c b m₀	b m₀ w b c c r₀	60	45	36	0·2	Tr	1·0	*	*	6
Croydon	217	d d₀ D pr₀	pr₀ c o c z₀	b m₀ w o c	61	46	43	1	–	0·9	*	*	6
Greenwich (Royal Observatory)	149	c ir₀ d₀	i d₀ c b	b w b c c p₀ c	59	45	35	0·5	Tr	0·7	65	81	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	61	46	42	1			73	92	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	60	46	40	1	Tr		77	86	*
Camden Square	110	c	bc	*	62	46	41	3	Tr	*	*	90	*
Kensington	80	o b c p	b c p b z	*	61	45	38	2	0·1		77	91	*
Hampstead Observatory	450	o r	b c p	b c	60	44	38	1	0·1		*	95	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·2	18h 16th	<0·1	0–7h 17th

FOREIGN OBSERVATIONS.

Stations	Evening of 16th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 17th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	990·3	NNW	2	id₀	43	995·4	NNE	1	b	41	*	*	*	*
Lisbon (18h and 07h)	1020·6	W	1	bc	73	1022·7	NE	5	c	64	81	63	–	–
¶Madrid (18h and 07h)						907·5	—	0	Zo	56		55		–
Cairo (Heliopolis) (18h and 06h)						1018·1	—	0	Zo	61		55		–
Toronto (13h and 01h)														
Washington (13h and 01h)														

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 ,,
2 Fog 550 ,,
3 Moderate fog 1,100 ,,
4 Mist or haze 1½ miles.
5 Poor visibility 2½ ,,
6 Moderate ,, 6¼ ,,
7 Good ,, 12½ ,,
8 Very good ,, 31 ,,
9 Excellent ,, beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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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
Saturday 18th October, 1941.
No. 29,185.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1013·6	-26	WSW	3	c	58	55	8	8	3	3	4-6	7-8	2500
	Croydon	1014·3	-18	SW	3	c	61	55	8	3	4	3	4-6	7-8	2800
	S. Farnborough	1014·1	-20	WSW	5	c	60	55	8	2	3	6	2-3	7-8	3000
	Boscombe Down	1015·2	-14	SW	5	c	56	75	8	8	6	-	7-8	9	3000
	Thorney Island	1013·3	-14	WSW	4	c	59	75	8	2	3	2	4-6	9	2500
	Lympne	1015·8	-14	SW	1	bc	60	75	8	2	7	3	2-3	4-6	2500
	Manston	1014·9	-16	SW	4	bc	57	75	8	2	6	3	2-3	4-6	2900
2	Shoeburyness	1014·5	-20	SW'W	3	c	59	65	7	2	4	6	4-6	9	3000
	Felixstowe	1013·7	-18	WSW	3	zo	59	75	6	2	3	-	7-8	9	4000
	Gorleston	1013·7	-20	SW	5	bc	58	65	7	1	-	-	2-3	4-6	2500
	Mildenhall	1012·5	-30	SW'W	5	bc	59	65	8	2	7	2	4-6	4-6	3000
	Cranwell	1009·6	-34	SW	4	bc	57	65	8	1	6	-	4-6	4-6	2000
3	Birmingham	1010·5	-14	SW	3	c	55	75	7	5	2	-	7-8	10	1500
	Upper Heyford	1012·6	-26	SW'S	4	c	56	75	8	8	7	6	2-3	7-8	2000
4	Ross-on-Wye	1011·8	-26	SW	4	cq	56	75	8	5	1	-	9+	10	2500
5	Hartland Point	1013·0	-20	WSW	6	c/pr	56	85	8	2	7	-	2-3	10	1200
	Bristol	1014·4	-26	WSW	5	c	57	65	8	8	2	-	4-6	10	2000
	Portland Bill	1015·4	-14	W	5	c	58	85	8	5	2	-	4-6	10	4000
	Plymouth	1015·3	-18	W	5	c	58	75	8	1	7	-	2-3	9+	2000
	The Lizard	1017·3	-12	WSW	6	c	57	85	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	1016·9	-16	W'S	6	c	57	85	8	8	2	-	4-6	10	1200
	Guernsey														
6	Pembroke	1011·1	-30	SW	9	c	57	55	8	8	4	-	7-8	9	2500
7	Holyhead (Valley)	1003·9	-48	SSW	8	roro	55	92	6	5	-	-	10	10	800
	Chester (Sealand)	1007·1	-36	SW	5	pr	56	75	7	9	-	3	9	10	2000
8	Manchester	1007·2	-42	S'W	5	rr	53	75	6	5	2	-	4-6	10	3000
10	Spurn Head	1008·5	-32	SW'W	5	cq	56	65	7	3	4	-	2-3	9	4000
	Catterick	1005·1	-44	SW	4	iro	53	75	6	5	2	-	4-6	10	1800
	Tynemouth	1003·6	-44	SSW	5	zo	53	75	6	9	-	-	9+	9+	1000
11	St. Abbs Head	997·8	-56	SW	6	roro	49	85	8	5	2	-	7-8	10	2000
	Leuchars	996·1	-60	SW	4	roro	50	85	7	5	2	-	9+	10	1500
12	Renfrew (Abbots I.)	995·9	-58	SW'S	5	pr	53	85	7	5	-	-	10	10	1400
	Eskdalemuir	992·1	-54	S'W	5	RR	46	97	6	-	2	-	10	10	220
	Point of Ayre	1000·5	-54	WSW	6	rr	53	92	7	6	2	-	7-8	10	800
13A	Tiree	992·2	-30	W'S	5	c/pr	52	85	7	8	-	-	9	9	1500
13B	Stornoway	988·7	-42	S	8	rr	51	92	6	5	2	-	9	10	1000
15	Dalwhinnie	993·2	-40	S	4	rr	44	85	6	5	-	-	9+	9+	1500
	Aberdeen	996·2	-52	SSW	3	roro	50	75	6	6	2	-	4-6	10	1900
	Wick	993·3	-44	S'W	5	c	51	75	8	1	7	-	Tr	10	1200
16	Sumburgh	994·9	-12	SW	5	c	53	85	8	8	7	-	4-6	9	2000
17	Blacksod Point	1000·7	0	WSW	6	cq	55	75	7	9	-	-	10	10	2500
18	Malin Head	995·1	-6	W	6	c	54	75	7	9	-	4	4-6	7-8	1500
	Aldergrove	998·5	-30	SW	5	PR	53	85	7	9	6	-	9	9+	1600
19	Birr Castle	1004·4	-10	WSW	2	rr	53	92	7	5	-	-	10	10	2500
20	Valentia Obsy. †	1007·9	-24	SW'W	7	rr	57	92	6	6	2	-	9	10	1500
	Roches Point	1009·0	-22	W'S	6	ir	58	85	8	6	2	-	7-8	9+	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 17th (37)	Weather 13h.–18h. 17th (38)	Weather 18h. 17th to 1h. 18th (39)	Weather 1h.–7h. 18th (40)
London (Kew)	1010·3	-22	SW	5	zo	55	75	6	5	-	-	10	10	1500	1	*	prmobcy	bcycrocmo	ciroc	ccroc
Croydon	1011·3	-22	WSW	5	c	55	75	7	6	2	-	2-3	10	2000	1	*	cmocbc	bcyc	roroiro	idocmo
S. Farnborough	1011·0	-22	SW'W	5	c	55	75	7	5	7	-	2-3	10	2000	1	*	ccromcc	c	cmrmmdc	cmododo
Boscombe Down	1011·4	-26	SW'S	6	iro	55	85	7	6	2	-	7-8	10	1200	0	*	bcmobcc	c	crorodoc	cdodororomo
Thorney Island	1012·9	-10	WSW	5	iro	58	75	7	6	2	-	7-8	10	1500	0	*	cfgwcmoc	ciro	oiroororo	rorooiro
Lympne	1013·7	-16	SW'W	4	co	54	85	7	5	2	-	4-6	10	3500	1	§5	cbcc	bcc	cmorro	cmododo
Manston	1011·7	-10	SW	5	c	54	85	8	5	2	-	1	10	6000	0	*	cbc	bcc	crorooiro	ccmoc
Shoeburyness	1011·7	-16	SW'S	4	c	56	75	7	5	2	-	Tr	10	2500	1	*	irobcc	c	iroc	ciroc
Felixstowe	1009·1	-24	SSW	6	iro	55	75	8	5	2	-	2-3	10	6500	1	3	cmoiro, mo	bcc,iro	ororoird	dododomoo
Gorleston	1008·9	-28	S	4	co	55	65	7	5	-	-	10	10	2500	0	3	czobc	c	oirorr	ororo
Mildenhall	1007·6	-30	WSW	5	roro	55	85	7	5	-	-	10	10	2500	1	*	cmoairobc	bcccororo	ororocirom	cirocqmo
Cranwell	1003·5	-38	SW'S	7	rr	53	92	6	6	2	-	7-8	10	1200	1	*	cmobcmo	bccrorrm	ciromo,	cmooido,cdodo
Birmingham	1005·1	-24	WSW	3	RR	52	97	6	6	-	-	10	10	450	1	*	cbcc	coroR	oRr	o
Upper Heyford	1007·6	-30	SW	5	ir	53	85	7	5	2	-	7-8	10	700	1	*	cmobcc	ccirocir	ciroc	cidomoc
Ross-on-Wye	1006·8	-26	SW	5	rr	55	92	6	6	2	-	9+	10	1400	1	*	cbcc	cqirodqr	rqcq	cq
Hartland Point	1008·3	-24	W'S	7	rr	55	97	6	6	2	-	9+	10	1200	1	5	cproc	irrrc	cdd	cddoid
Bristol	1009·6	-22	WSW	5	rr	55	85	6	-	2	-	10	10	400	1	*	cprc	crocrmo	crrrorogmo	croiromoq
Portland Bill	1012·3	-18	WSW	6	o	59	92	7	5	-	-	10	10	2500	0	6	c	co	o	oc
Plymouth	1013·2	-16	WSW	7	rr	57	92	6	6	2	-	9+	10	900	1	6	bbcc	ciroc,iro	croromo	ciromo
The Lizard	1014·8	-12	WSW	6	c	57	85	7	5	-	-	10	10	1100	0	5	c	c	cprororo	ororoc
Scilly (St. Mary's)	1013·8	-14	W	6	c	58	85	7	5	2	-	7-8	10	1200	1	5	bcc	c	ciro	cproc
Guernsey																				
Pembroke	1006·0	-12	WSW	9	roro	58	92	6	8	2	-	7-8	10	1500	1	5	c (gale)	crqmo (gale)	crqmo (gale)	crrqmo (gale)
Holyhead (Valley)	1002·3	-6	WSW	7	co	54	85	8	5	7	-	2-3	10	1500	1	5	cro (gale)	croIrc	cirororomo	cmo (gale)
Chester (Sealand)	1002·7	-12	WSW	4	iro	53	85	7	6	2	-	7-8	10	600	1	*	bmocmoprg	cRRmcr	ccmo,croro	croirorom
Manchester	1002·7	-22	SW'S	4	c/r	52	97	7	5	7	-	9	9+	2500	2	*	cirrrmo	irorRRr	bccr	rrrom
Spurn Head	1003·1	-20	WSW	7	rr	53	85	6	-	2	-	10	10	2500	1	4	bcbc	copr (gale)	bcdc	oro
Catterick	998·9	-18	W'S	4	bc/r	53	85	7	5	6	-	4-6	4-6	1500	1	*	bcirocz oro	rorobciro	bc bciro prbmo	cmoirororr
Tynemouth	998·0	-12	W	4	bc	53	75	6	2	4	-	2-3	2-3	1000	1	3	bccmo	cmobc	bcqc	corr
St. Abbs Head	993·5	-4	W	4	bc	50	75	8	2	4	-	2-3	4-6	2500	0	3	cror	cbc	bcq	crr
Leuchars	991·9	-10	WSW	6	bc	48	85	8	8	-	-	2-3	2-3	2500	1	*	croro	roroprocbc	bbmo	
Renfrew (Abbots I.)	994·2	-8	W'S	5	c/pr	52	75	6	3	-	-	7-8	7-8	2000	1	*	c,moroc	iropro	cbccprobcmo	cmrrroro
Eskdalemuir	995·9	+6	SW'W	3	pr	48	85	8	5	-	-	9+	9+	1500	1	*	coRR	cpR pr	rrcprc	crriro
Point of Ayre	998·8	+4	W'N	6	c	53	75	8	4	3	-	1	10	2500	-1	5	bccrr	probc	bccprr	rrc
Tiree	991·6	+6	WNW	5	bc	53	85	7	8	-	-	4-6	4-6	1800	0	6	cpr	bcpr	bc	corr
Stornoway	989·3	+12	W	3	c/pr	49	92	7	5	7	-	7-8	9+	2000	1	2	cprrr (gale)	crrpr	cpr	cprrr
Dalwhinnie	990·7	-10	SW	3	c	45	85	7	5	4	-	4-6	7-8	2500	1	*	crr	copr		ciro
Aberdeen	990·5	-20	SW	3	bc	48	75	7	5	4	-	4-6	4-6	3500	1	2	bccroro	croroc		
Wick	988·2	-14	SSW	3	bc	48	92	9	5	7	3	2-3	4-6	3500	1	*	c	crorocbc	probccprobc	beprobcc
Sumburgh	989·3	-26	SSW	4	iro	50	85	8	5	7	-	9	9+	1500	1	5	PRcprc	cciro	rocbcc	cprbbc
Blacksod Point	1000·7	0	W	5	pr	55	75	7	9	-	-	10	10	1500	1	4	cq	procq	rrq	cq (gale)
Malin Head	996·0	+10	W'N	7	pr	53	85	7	8	-	2	7-8	9	1500	1	5	c	cprprc	cprcproc	c (gale)
Aldergrove	998·8	+2	WSW	4	pr	51	85	7	9	6	-	7-8	9+	1200	1	*	rrmoPR	cbccpro	procroro	
Birr Castle	1003·2	-2	WSW	2	c/r	52	92	7	6	2	-	4-6	10	1500	1	*	orr	cir	*	ciro
Valentia Obsy. †	1007·0	+2	SW'W	6	iro	57	92	6	6	2	-	9+	10	800	1	6	ciRrr	crrciro	crororoiroc	ciroc
Roches Point	1006·4	-14	W'S	6	rro	57	97	6	6	2	-	7-8	10	800	1	5	iroir	rr	ciro	iroc

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/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters „ indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄ gale.
⊕ Solar halo. ⦶ lunar halo. ⌂ Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

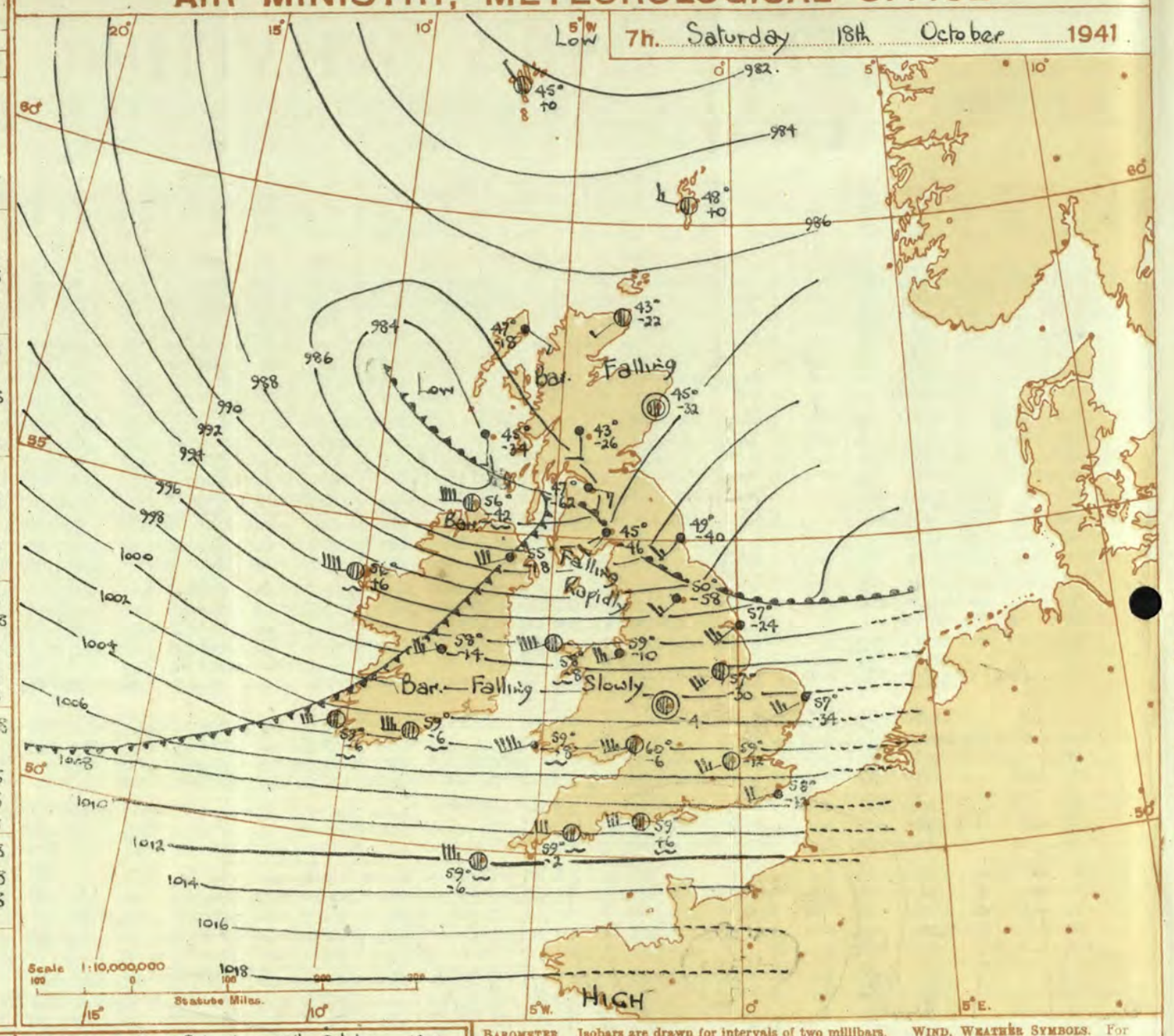
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 17th October.				18h. G.M.T.			01h. G.M.T. 18th October.				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
109	57	02841	47625	5-	02756	19466	50	02755	25425		57	02854	20215	
115	52	81944	18487	52	81844	18487	57	02844	28487		52	81844	20287	
203							50	01944	24484		8-	64848	12488	
206	57	02865	20526	86	81964	18284	8-	02855	25285		55	12125	86344	
210	57	02965	14328	46	01963	18214	4-	02966	21886		57	02963	14128	
220	80	27855	23485	80	25744	27483								
230	57	61747	52468	8-	81747	19687	8-	25748	25488		57	62748	00068	
245	52	64644	18568	54	00751	20363	51	02861	56417		62	62646	00068	
260	57	22854	31567	53	25753	53583	00	05690	20416		5-	64755	00068	
278	57	02865	20366	50	00863	23583	5-	63658	20368		57	02842	57668	
279	62	62636	51768	80	01754	56584	57	04755	22525		62	62626	55668	
285	6-	64638	18568	6-	63636	24666					6-	64638	24668	
288	62	61644	18528	53	05644	22665	5-	05668	18828		62	64645	00068	
575	9-	82647	22587	87	10745	55487	62	64647	24268		57	22745	57666	
301	52	62646	53768	62	62635	57728	02	62648	56688		62	64727	55868	
321	87	02755	17426	5-	22664	55567	44	05664	22315		52	63734	21528	
299	5-	05687	20417	5-	22648	20668	6-	01752	20412		5-	64548	20368	
292	52	05647	18418	33	01743	54464	51	02644	20285		62	64534	01357	
310	2-	02638	24528	--	64628	20548					--	67109	24540	
614	80	02765	33417	02	65538	53568	5-	61545	55368		61	22787	53568	
333	52	62746	20668	62	64658	21668	52	22745	56568		52	61747	53668	
334	--	66437	26368								--	66537	24568	
340	5-	51858	22558	02	62748	22368	6-	62744	20368		57	22843	55668	
136				52	62665	19668	07	05690	20467		62	62727	20668	
336											62	66654	24668	
350											53	22738	53568	
368	62	62743	55588	62	64636	55668								
379				6-	05638	24568					6-	02738	57665	
390	14	01753	22424	62	05644	22663	62	61646	55668		62	62627	57668	
382	87	02854	20516	5-	62855	19568	5-	02748	20528		5-	22748	21563	
438											62	14785	55788	
430	23	02852	54416	87	02745	22628	5-	52648	55668		52	21636	55658	
409	57	02854	20888	62	64637	21668	62	61516	53668		62	61627	55668	

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



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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 18th October 1941
1 S.E. England 2 E. England ... 3 E. Midlands ...	Fresh to strong southwest to west wind, approaching gale at times on coast; mainly dull; occasional rain or drizzle, mostly slight; very mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Westerly winds, strong to gale at times especially on the coast; overcast; occasional rain; mild.
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	Strong to gale westerly wind, veering and easing temporarily; rain at first then showers with bright periods; further rain tomorrow; mainly mild.
13B. N.W Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Winds mainly between south and west, becoming northwest, light to fresh; overcast, rainy; brighter intervals and showers later; rather cold.
17 N. W. Ireland 18 N. E. Ireland	Squally west to northwest winds, strong to gale, easing temporarily then backing and increasing; showers and bright periods today; further general rain later; changeable temperature.
19 S. E. Ireland 20 S. W. Ireland	Winds westerly, strong to gale at times locally; mainly cloudy; occasional rain; mainly very mild becoming colder.

GENERAL INFERENCE.

An active secondary depression just west of Scotland is moving quickly east and will be followed by a further disturbance from the Atlantic. Weather will be rather stormy over most of the country with strong winds and gales and occasional rain. Brighter periods will be experienced in the northern half of the British Isles.

FURTHER OUTLOOK.

Rather squally showery conditions with a fall in temperature, but bright periods.
Gale warning in operation in districts 1, 2, 5, 6, 7, 8, 10, 11, 12, 13(A&B) 15, 17, 18, 19, 20
Times of issue 11·20, 18·50 and 22·50 on 15/10/41; 0500 on 16/10/41. and 0645 and 1930 on 17/10/41

Forecasts issued at 10·30 L.

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

H.M.S.O. Press, Meteorological Office Dunstable. 6.269/4120. Wt. 8176. D. 6034. 6p. 3/42. 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
Saturday 18th October
1941.

Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 18th October 1941.

No. 29,185.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1007·1	-10	SW	6	id$_o$	57	85	6	6	2	-	7-8	9+	1500
	S. Farnborough	226	1007·3	-6	WSW	5	id$_o$	57	85	6	5	-	-	10	10	1300
	Boscombe Down	417	1008·4	-6	SW'W	6	c	56	92	7	6	-	-	10	10	1000
	Thorney Island	10	1009·1	-6	W'S	5	r$_r$r$_o$	59	92	6	5	-	-	10	10	1700
	Lympne ...	346	1010·0	-10	WSW	4	c/r$_o$	56	97	6	5	-	-	10	10	1500
	Manston ...	154	1006·6	-18	SW'W	6	c/r	57	85	6	6	1	-	7-8	10	1600
2	Shoeburyness ...	11	1007·0	-12	WSW	5	ir$_o$	58	86	7	6	7	-	7-8	10	2500
	Felixstowe ...	15	1004·9	-6	W	4	dd$_o$	53	97	5	5	2	-	9+	10	1200
	Gorleston ...	5	1004·3	-8	SW	4	c/r	52	92	5	6	-	-	10	10	1500
	Mildenhall ...	19	1004·4	-4	SW	3	c/r	52	97	6	5	-	-	9	9	3100
	Cranwell ...	240	1002·7	-2	S	5	z$_o$	52	92	6	5	-	-	9+	9+	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1004·5	-8	SW'W	4	c	57	92	7	5	2	-	4-6	10	1600
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1006·9	-12	W	7	dd	57	97	6	6	2	-	9	10	800
	Bristol ...	209	1007·5	-6	WSW	5	r$_r$r$_o$	57	92	5	-	2	-	10	10	400
	Portland Bill ...	32	1009·7	-12	WSW	6	r$_r$r$_o$	59	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1010·6	-12	WSW	6	r$_r$r$_o$	57	97	6	6	2	-	9	10	500
	The Lizard ...	240	1011·9	-12	WSW	6	r$_r$r$_o$	57	97	6	5	-	-	10	10	1000
	Scilly (St.Mary's)	163	1011·5	-12	W	6	c/r	57	92	6	5	2	-	7-8	10	1200
	Guernsey ...	175														
6	Pembroke ...	142	1005·0	-10	W'S	8	RR	58	92	5	8	-	-	10	10	1500
7	Holyhead(Valley	26	999·3	-30	SW	5	r$_r$r$_o$	55	97	6	5	2	-	7-8	10	1000
	Chester(Sealand)	16	1001·7	-10	SSE	1	r$_r$r$_o$	53	97	5	5	2	-	7-8	10	4600
8	Manchester ...	235	1001·6	-10	SSW	3	rr$_o$	51	92	7	6	2	-	7-8	10	1200
10	Spurn Head ...	29	1001·7	+4	WSW	5	bcq	51	92	7	8	-	-	4-6	4-6	2500
	Catterick ...	175	998·8	+2	W'S	1	z$_o$	52	75	6	5	1	-	2-3	10	4000
	Tynemouth ...	108	997·2	+2	W	6	c$_o$	52	85	6	2	-	-	9	9	1500
11	St. Abbs Head	280	993·4	+8	W	6	bcq	51	75	8	4	4	-	2-3	2-3	2500
	Leuchars ...	36	992·9	+14	WSW	3	z$_o$	49	85	6	-	-	-	0	0	-
12	Renfrew (Abbots L.)	19	999·5	-4	W'S	4	z$_o$	52	75	5	5	2	-	7-8	10	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	998·2	-6	W'S	4	rr	52	92	7	-	2	-	10	10	1000
13A	Tiree	22	993·0	-14	WSW	3	r$_o$r$_o$	50	97	7	-	2	-	10	10	1500
13B	Stornoway ...	80	992·2	0	SSW	3	c/pr	46	85	7	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	989·8	+18	WNW	4	bc/pr	47	85	7	2	4	-	2-3	4-6	1800
16	Sumburgh ...	30	985·9	-6	W	4	c	50	85	8	5	-	-	9	9	1500
17	Blacksod Point	18	996·6	-28	SSW	7	rr	57	97	7	6	-	-	10	10	800
18	Malin Head ...	84	994·5	-22	SSW	4	ir$_o$	50	92	6	3	-	-	9+	9+	800
	Aldergrove ...	268	997·0	-22	SSW	2	rr	49	97	6	-	2	-	10	10	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1006·1	0	WSW	6	c/r	59	85	6	6	2	-	9+	10	1500
	Roches Point	22	1005·0	-6	W	6	ir$_o$	59	92	8	6	2	-	7-8	9+	1500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1003·7	-14	SW'W	4	c/r	58	92	7	5	-	-	10	10	800	1	*
1004·4	-12	SW	5	c	59	85	7	5	-	-	10	10	1000	1	*
1004·9	-4	WSW	6	dd$_o$	58	87	6	5	2	-	9+	10	1000	1	*
1006·5	-2	SW'W	6	c/r	58	85	7	6	-	-	10	10	800	1	*
1007·1	-6	W'S	6	ir$_o$	60	85	7	6	2	-	10	10	1500	1	*
1006·8	-12	WSW	4	dd$_o$	58	97	8	5	-	-	10	10	200	1	§
1004·4	-14	SW'W	5	c	59	85	8	6	7	-	9	10	1500	1	*
1004·3	-20	SW	4	c	60	85	8	5	7	-	9	10	1800	1	*
1001·7	-18	WSW	6	o	58	85	8	5	2	-	9+	10	600	1	4
999·8	-34	SW'S	5	r$_r$r$_o$	57	92	7	6	-	-	10	10	1000	1	4
999·7	-18	SW	7	eq	59	92	8	6	2	1	2-3	10	1000	1	*
996·4	-30	SW	5	c	57	92	8	6	-	-	10	10	800	1	*
	-4	-	0	c/r		85	5	6	-	-	10	10	450	1	*
1001·3	-10	SW'W	5·	c	59	85	7	5	-	-	10	10	800	1	*
1002·2	-6	SW'W	7	eq	60	75	8	6	-	-	10	10	2000	1	*
1005·9	-4	W	7	id	58	92	6	5	2	-	7-8	10	800	1	5
1005·1	0	W	6	eq	59	85	7	6	-	-	9+	9+	900	1	*
1007·9	+6	WSW	6	c	59	85	7	5	2	-	4-6	10	2500	0	6
1009·6	-2	W	6	c/r	59	85	7	6	3	-	9	9	1800	1	5
1012·3	+8	WSW	7	c	58	92	7	8	2	-	9	10	1500	1	6
1011·4	-6	W	7	c	59	92	7	5	2	-	7-8	10	1200	1	5
1003·4	-8	W'S	9	rr	59	85	5	8	-	-	10	10	1500	1	5
1006·1	-8	WSW	8	c	58	92	7	5	2	-	7-8	10	1000	3	6
1006·3	-10	WSW	5	r$_r$r$_o$	59	85	6	6	2	-	7-8	10	800	1	*
1005·6	-18	SW	5	r$_r$r$_o$	57	92	6	6	2	-	7-8	10	400	2	*
994·4	-24	SW	5	r$_r$r$_o$	57	92	7	8	-	-	10	10	2500	1	4
990·4	-58	SW'S	3	rr$_o$	50	97	6	6	2	-	9+	10	800	1	*
990·8	-40	SW	3	rr	49	92	6	-	2	8	10	10	1500	1	3
988·7	-48	SSW	3	rr	46	97	7	5	2	-	7-8	10	2000	1	3
987·1	-20	SW	2	rr	48	97	6	5	-	-	10	10	1500	2	*
985·3	-62	E'S	3	r$_r$r$_o$	47	92	5	5	-	-	10	10	2500	1	*
988·0	-46	SW'S	2	r$_r$r$_o$	45	97	6	-	2	-	10	10	220	1	*
989·8	-34	W	6	r$_r$r$_o$	57	97	7	9	7	-	7-8	10	1500	1	5
984·2	-34	S	1	r$_r$r$_o$	49	97	7	-	2	-	10	10	1500	1	3
986·2	-18	SE	1	rr	47	85	7	5	2	-	9	10	1500	1	2
986·8	-26	S	2	rr	43	92	6	5	-	-	10	10	1500	1	*
986·7	-32	-	0	c	45	85	6	5	7	-	7-8	10	3200	1	
986·4	-22	SW	1	c	43	85	9	2	7	6	2-3	9+	2500	1	*
986·5	0	NW'W	3	bc	48	75	8	8	4	2	1	4-6	2500	1	4
994·0	+6	W	8	cq	56	75	7	5	-	9	4-6	7-8	1500	1	5
993·9	-42	W	8	c	56	85	7	3	-	-	9	9	1500	1	5
988·9	-18	WSW	6	RR	55	92	6	5	2	-	4-6	10	1400	2	*
997·7	-14	WSW	5	ir$_o$	58	92	7	6	2	-	7-8	10	1500	1	*
1005·2	-6	WSW	6	c$_o$	59	85	7	5	2	-	9+	10	1500	1	6
1004·1	-6	W	7	c	59	85	8	6	2	-	7-8	9+	1500	1	5

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 17th Hrs. (36)
59	55	53	0·2	0·1	3·7
62	54	52	-	1	4·5
62	54	52	-	0·5	3·5
58	54	51	-	1	2·8
61	56	*	-	1	*
61	54	51	-	2	3·9
60	55	52	-	0·1	3·9
61	55	51	Tr	0·1	3·1
60	52	51	0·2	7	3·7
60	50	47	-	8	0·0
60	51	50	Tr	8	2·7
58	50	48	3	5	4·2
58	50	48	7	14	2·8
57	53	51	0·1	3	*
57	54	53	3	3	2·0
57	58	50	0·4	5	1·6
59	54	52	3	5	2·
60	57	52	-	-	*
58	57	55	Tr	5	*
58	55	*	-	2	2·0
58	56	*	-	1	0·7
58	59	*	3	1	0·0
56	53	52	13	3	*
59	53	49	11	3	2·4
54	50	48	13	7	*
57	50	*	2	6	3·0
54	48	44	8	5	1·4
54	48	44	1	6	*
51	46	*	0·3	2	*
53	47	43	0·5	1	0·9
54	47	44	3	6	1·0
51	43	43	17	10	0·5
56	49	*	8	16	
55	48	*	3	7	2·0
53	45	*	4	2	0·4
46	41		4	3	
50	44	40	0·6	-	0·1
52	41	36	0·6	0·4	*
53	46	40	3	2	3·9
54	51	50	22	4	0·0
58	57	56	6	1	0·0
59	57	*	6	1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW	18	prcmbcy	beyer$_o$cm$_o$	cir$_o$crc$_o$	59	55	53	0·2	0·1	3·7	*	*	8
CROYDON	217	cm$_o$cbc	beyc	r$_r$o ir$_o$cm$_o$	62	54	52	-	1	4·5	*	*	7
GREENWICH (Royal Observatory)...	149	cbc	bcc	cir$_o$c	61	56	49	-	0·5	2·3	64	70	8
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	62	52	51	Tr			70	75	*
REGENTS PK. (Botanic Gardens)†...	168	*	*	*	61	51	51	Tr	Tr		77	74	*
CAMDEN SQUARE	110	bc	c	*	61	56	50	-	0·3	*	*	72	*
KENSINGTON	80	bc	c	*	61	56	52	-	0·1		75	75	*
HAMPSTEAD OBSERVATORY	450	bcb	bcor*	0	59	53	50	Tr	0·3		*	79	*

FOREIGN OBSERVATIONS.

Stations.	Evening of 17th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 18th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	989·3	NNE	4	c	42	994·0	N	5	bc	37
Lisbon (18h and 07h)	1022·4	NNE	2	z$_o$	70	1023·6	·!	3	z$_o$	59
¶Madrid (18h and 07h)	902·5	-	0	c	75					
Cairo (Heliopolis) (18h and 06h)										
Toronto (13h and 01h)										
Washington (13h and 01h)										

Past 24 Hours: Max. Day °F. * 81 79; Min. Night °F. * 57; Rainfall. Day mm. * - -; Rainfall. Night mm. * -

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 18th.

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	13-18h 17th	0·1	Rest of Period

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30—Code for State of Sea.

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

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

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

Page 1.

AIR MINISTRY.

SECRET

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 19th October, 1941.

No 29186.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1002.2	-6	WSW	5	c/pr	62	75	7	5	-	-	9+	9+	1500
	Croydon	1002.9	-6	SW	6	c/r	62	75	8	9	3	3	4-6	9+	1600
	S. Farnborough	1004.1	-2	WSW	7	c/r	63	75	7	5	-	6	4-6	9+	2000
	Boscombe Down	1005.3	-2	W'S	7	c/r	60	75	8	5	-	-	9+	9+	1200
	Thorney Island	1006.0	-6	W'S	6	zo	62	75	6	7	7	-	4-6	9	1500
	Lympne	1005.0	-8	WSW	6	ido	60	85	7	5	-	-	10	10	800
	Manston	1001.9	-14	WSW	7	c	62	75	7	5	7	-	7-8	9+	800
2	Shoeburyness	1002.5	-18	SW	5	iro	62	75	8	5	-	-	10	10	2500
	Felixstowe	998.6	-18	WSW	7	zo	61	75	6	5	2	-	9+	10	1500
	Gorleston	995.2	-26	SW'W	7	c	62	65	7	6	-	-	10	10	600
	Mildenhall	996.7	-20	WSW	8	c	63	85	7	5	2	-	7-8	9+	1500
	Cranwell	994.5	0	W'N	6	c/r	60	65	8	8	6	2	2-3	9	2000
3	Birmingham	999.3	+10	W	6	c/pr	57	75	8	8	7	-	7-8	9	2500
	Upper Heyford	1000.3	0	SW'W	6	c	60	75	7	5	-	-	10	10	1500
4	Ross-on-Wye	1001.1	0	WSW	8	cq	61	75	8	8	-	2	7-8	9+	3000
5	Hartland Point	1007.8	+14	W	7	c/r	58	92	6	6	2	-	9	10	1000
	Bristol	1004.5	-6	WSW	7	cq	60	75	7	5	2	-	9+	10	1000
	Portland Bill	1007.5	-2	SW	6	c	60	92	7	5	-	-	10	10	2500
	Plymouth	1010.0	+2	W	7	roro	60	85	6	6	-	-	10	10	700
	The Lizard	1012.6	+2	WSW	7	c	59	92	6	8	2	-	9	10	1500
	Scilly (St. Mary's)	1012.1	+6	W'N	7	c	60	85	7	8	5	-	4-6	9+	1200
	Guernsey														
6	Pembroke	1004.4	+6	W'S	9	cq	59	97	7	8	2	-	7-8	9+	1500
7	Holyhead (Valley)	999.2	+34	WNW	7	cjp	58	85	7	2	6	8	9	9+	1500
	Chester (Sealand)	997.1	+30	W	6	c/pr	60	65	7	9	-	6	4-6	9+	1200
8	Manchester	997.4	+40	W'S	6	pr	57	75	6	9	-	-	10	10	1100
10	Spurn Head	990.9	-2	W	9	bcq	59	65	7	8	6	2	4-6	4-6	4000
	Catterick	990.9	+24	NNW	6	bc/r	55	75	8	8	7	-	4-6	4-6	1800
	Tynemouth	991.2	+28	W	8	c	55	65	7	2	-	-	7-8	7-8	1500
11	St. Abbs Head	984.6	+18	NW	6	c/pr	50	85	8	8	5	-	4-6	7-8	2500
	Leuchars	987.2	+50	WNW	4	bc	49	92	8	5	3	-	2-3	4-6	2800
12	Renfrew (Abbots I.)	991.2	+58	NW'N	6	bc/pr	53	75	9	9	-	-	4-6	4-6	2500
	Eskdalemuir	989.4	+54	W'N	7	bc	51	65	8	5	-	-	4-6	4-6	1500
	Point of Ayre	995.1	+58	NW	8	c	56	75	8	8	-	6	4-6	9	2500
13A	Tiree	994.0	+60	NW	5	bc	54	65	8	8	-	-	4-6	4-6	2500
13B	Stornoway	986.7	+2	WNW	2	rr	47	85	7	5	7	-	7-8	9+	2000
15	Dalwhinnie	989.4	+24	W	3	c	46	85	7	5	4	-	7-8	9+	2500
	Aberdeen	985.7	-20	NW	3	c/r	47	92	7	6	2	-	2-3	10	1200
	Wick	987.1	+18	WNW	3	roro	45	92	7	5	2	-	10	10	2200
16	Sumburgh	985.1	+2	NW	2	c/pr	51	75	8	8	-	-	4-6	9+	2500
17	Blacksod Point	1003.0	+40	W	4	c	55	75	8	2	5	-	4-6	9	2500
18	Malin Head	997.0	+56	NW'N	6	c	53	65	8	2	-	4	4-6	7-8	2500
	Aldergrove	999.8	+70	WNW	5	c	54	75	8	8	-	8	7-8	9	2000
19	Birr Castle	1004.0	+38	W	4	c	57	75	8	8	7	-	7-8	9	1500
20	Valentia Obsy. †	1009.0	+14	W'S	5	iro	58	85	7	1	2	-	Tr	10	2500
	Roches Point	1007.1	+22	W'N	5	c	61	65	8	3	3	5	2-3	7-8	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1007.4	+50	SW'W	4	zo	59	75	6	5	-	-	9	9	1500	1	*
	Croydon	1007.2	+42	W	5	c	59	65	7	5	3	6	4-6	9	2500	1	*
	S. Farnborough	1007.8	+32	W	5	c	58	75	7	1	3	1	4-6	7-8	2000	1	*
	Boscombe Down	1008.8	+26	W	6	zo	57	75	7	6	7	9	2-3	9	1400	1	*
	Thorney Island	1009.2	+28	W	4	bc	60	75	7	6	7	2	4-6	4-6	1500	0	*
	Lympne	1007.7	+30	W	5	c	58	75	7	2	7	2	2-3	9	1800	1	§
	Manston	1005.7	+36	W	5	c	60	75	7	8	7	-	9	10	800	0	*
2	Shoeburyness	1006.1	+42	W	6	c	61	55	7	8	-	2	4-6	7-8	3100	0	*
	Felixstowe	1003.3	+50	W'N	6	c/pr	59	75	8	2	4	8	Tr	7-8	1800	1	4
	Gorleston	1001.8	+58	W	5	c	57	65	7	8	3	-	2-3	7-8	1500	1	4
	Mildenhall	1004.0	+58	W	5	c	55	85	7	8	7	1	4-6	7-8	2500	1	*
	Cranwell	1003.3	+58	W'N	4	bc	52	75	7	8	-	4	4-6	4-6	1800	1	*
3	Birmingham	1005.6	+24	W	4	c	55	65	8	5	3	-	4-6	9	1500	1	*
	Upper Heyford	1006.3	+60	W	5	c	57	75	7	5	7	8	4-6	9	1800	1	*
4	Ross-on-Wye	1007.7	+34	W	5	cq	58	65	8	2	2	-	2-3	9+	2500	1	*
5	Hartland Point	1010.9	+16	WNW	4	roro	57	85	7	6	2	-	7-8	10	1000	1	5
	Bristol	1009.1	+24	WNW	5	c	58	75	7	4	7	-	2-3	9+	1400	1	*
	Portland Bill	1011.3	+30	W	6	c	59	92	7	5	-	-	10	10	2500	0	6
	Plymouth	1011.6	+10	W'S	6	dr	59	97	5	6	2	-	9	10	1400	1	5
	The Lizard	1014.2	+8	WSW	7	o/r	58	97	6	5	-	-	10	10	600	1	6
	Scilly (St. Mary's)	1013.8	+10	W'N	6	ido	59	92	6	5	2	-	7-8	10	500	1	5
	Guernsey																
6	Pembroke	1009.7	+20	W'S	6	iro	58	92	6	8	2	-	7-8	9+	1500	1	5
7	Holyhead (Valley)	1006.4	+42	W'N	7	c	55	75	8	5	7	-	2-3	10	2000	1	6
	Chester (Sealand)	1005.1	+42	W	4	c	55	75	8	8	7	-	7-8	10	2000	1	*
8	Manchester	1005.0	+50	W	6	pr	53	85	6	9	-	6	7-8	9+	1500	2	*
10	Spurn Head	999.2	+40	W'N	7	cq	55	75	7	2	4	2	2-3	7-8	4000	1	5
	Catterick	1000.8	+58	NW	6	c	50	97	8	5	7	-	2-3	9	2500	1	*
	Tynemouth	1000.2	+32	NW	5	bc	51	75	7	2	-	-	4-6	4-6	1500	1	4
11	St. Abbs Head	996.0	+48	WNW	6	b	49	65	9	4	-	-	1	1	2500	0	4
	Leuchars	996.9	+62	W	5	bc	47	75	8	5	-	-	2-3	2-3	2500	1	*
12	Renfrew (Abbots I.)	1000.3	+50	WNW	5	pr	47	85	7	9	-	-	9	9	1800	1	*
	Eskdalemuir	999.8	+46	W'N	4	c	46	65	8	5	7	-	2-3	7-8	1500	1	*
	Point of Ayre	1003.1	+30	NW'W	6	c	53	65	8	8	5	7	1	10	4000	1	5
13A	Tiree	999.6	+16	WNW	6	c	52	75	8	8	1	-	4-6	9	1800	0	6
13B	Stornoway	993.7	+10	W	3	iR	45	85	8	9	8	-	7-8	10	2000	1	3
15	Dalwhinnie	996.4	+36	W	3	c	41	85	7	5	-	-	7-8	7-8	2500	1	*
	Aberdeen	994.6	+22	NW	4	b	46	75	8	8	4	-	Tr	1	2700	1	2
	Wick	993.1	+22	W	3	bc	43	85	9	3	7	3	4-6	4-6	2500	1	*
16	Sumburgh	989.9	+30	NW	3	bc	47	75	8	8	4	-	4-6	4-6	2500	1	4
17	Blacksod Point	1005.8	+12	W	4	iro	53	85	7	6	-	-	10	10	1500	1	4
18	Malin Head	1002.1	+26	W	3	c	52	55	8	2	7	-	4-6	7-8	4000	1	5
	Aldergrove	1003.5	+26	W'S	3	c	49	85	8	8	5	2	1	9	2500	1	*
19	Birr Castle	1007.0	+24	W'N	2	c/pr	53	85	8	8	2	-	7-8	10	1500	1	*
20	Valentia Obsy. †	1010.1	+8	SW	2	ido	53	97	5	5	2	-	9+	10	800	1	3
	Roches Point	1009.9	+18	W'N	4	c	56	85	8	5	7	-	4-6	9	1500	1	4

PAST 24 HOURS. — WEATHER.

District	Stations	7h.–13h. 18th (37)	13h.–18h. 18th (38)	18h. 18th to 1h. 19th (39)	1h.–7h. 19th (40)
1	London (Kew)	cproc	cczo	cro	crododcmo
	Croydon	cmocir	ciroproc	cidoc	ccido
	S. Farnborough	cidoiroc	crodo	cmodoc	cdodomoc
	Boscombe Down	cdodoido	ciroqcmo	c	oidomo, c
	Thorney Island	oirocmo	cmoiroc	como	ororombc
	Lympne	ccdo	cdoc	c	ccmodf
	Manston	doc	cproc	ccmo	cmooidodo
2	Shoeburyness	ciro	c	cbcmo	bccdof
	Felixstowe	cmo	PRKQpro	bccb	bccbcc, mo
	Gorleston	cq	oircq	cbc	bcc
	Mildenhall	cqc	ccprrcbcc	bccbc	bccoidomo
	Cranwell	crorqmoc	cbc	cbcczo bcmo	cmo, c
3	Birmingham	ocpro	cbcc	cbcc	codo
	Upper Heyford	ciroc	ccirobcc	ciroc	cmododomo
4	Ross-on-Wye	cq	cq	cqc	c
5	Hartland Point	idcirc	ciddro	croiroc	c
	Bristol	cqmo	cqc	cmododo	cmorododo
	Portland Bill	c	c	orr	c
	Plymouth	crorocro	cirromodoromo	cdodomo	cidododocmo
	The Lizard	c	croroqp	co	co
	Scilly (St. Mary's)	c	cido	cidoc	c
	Guernsey				
6	Pembroke	cq	cqmor	cirmo	cq
7	Holyhead (Valley)	cproc	c	cirocmo	cdodomo
	Chester (Sealand)	crrmoproq	cproqc	cprobcqmo	cmorororodod
8	Manchester	crrmoq	prprocmo	cprobccmo	irododomo
10	Spurn Head	jrq	bccq	bc	bcc
	Catterick	bccirmobc	bcc	bcbcmo	cmororo
	Tynemouth	orrmc	cbc	bc	bccm
11	St. Abbs Head	cropro	cprb	cbc	bcc
	Leuchars	rrromoc	bcb	bcmo	bcmoc
12	Renfrew (Abbots I.)	cmorrpo	cprpro	cprbczo	bcmocir
	Eskdalemuir	ciro bc	bcc	bcpro	bccoido
	Point of Ayre	lorro⊕	c	bcbbc	rrroe
13A	Tiree	bc	prcbc	bcc	bccorbcc
13B	Stornoway	crrroro	crrpr	c	o
15	Dalwhinnie	oirc	oprc		oc
	Aberdeen	crrfc	crorobcb	b	bc
	Wick	cororo	cbiroprbc	probbccpro	probbcc
16	Sumburgh	bccpro	proiroc	bcprob	bcprob, c
17	Blacksod Point	cq	iro	rr	iroq
18	Malin Head	c	cyc	cbcbc	circ
	Aldergrove	cprocq	c	cbcco	rororoddmo
19	Birr Castle	c	cpro	*	ciro
20	Valentia Obsy. †	cPRcciro	cirido	ciroc	ciro
	Roches Point	prc	proc	dc	bcc

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_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⚑ gale.
⊕ Solar halo. ⓘ lunar halo. ⌂ Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

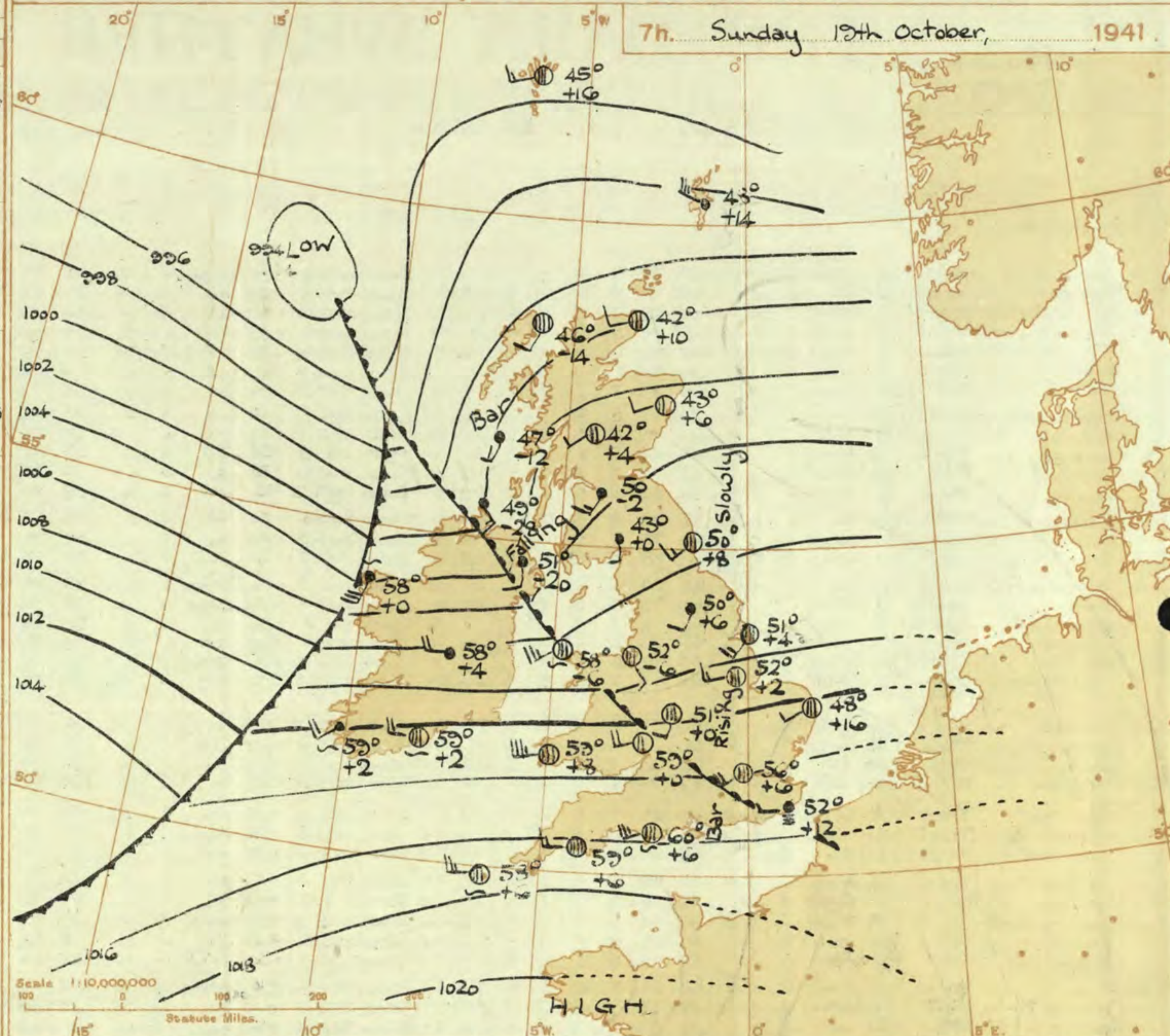
COLUMN 29.—STATE OF GROUND.

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.

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.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 19th October, 1941.



Abridged observations of additional stations in the AVIATION · WEATHER CODE

	13h. G.M.T. 18th October			18h. G.M.T.			01h. G.M.T. 19th October			07h. G.M.T.		
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	52	62642	24468	90	25753	23383	50	00843	22483	57	02844	22485
115	52	62844	28387	87	81944	28487	54	81844	28485	87	81844	22487
203	8-	81837	26467	8-	81936	24586				8-	02838	20488
206	82	22845	26367	84	25955	24386	5-	00853	24383	57	02962	24227
210	51	62634	25568	87	02954	20325	50	00953	21483	05	02990	17317
220	80	25855	27585	80	25846	28586				02	62754	15228
230	86	10854	59585	87	25844	55865	8-	02755	22485	52	64754	12168
245	87	02963	28366	44	00961	24481	51	00961	22213	17	02961	22217
260	8-	02856	24466				50	02763	20413	02	61978	20428
278	83	01854	59685	87	02842	26488	5-	01854	57424	02	62628	12260
279	2-	01854	58685	20	02852	57416	40	00852	57402	52	62754	16368
285	9-	81747	24787	23	01744	20614						
288				57	01852	59514	5-	02755	20225	02	61877	20227
575	87	01854	57586	37	02854	27486	6-	62748	24268	6-	51638	22358
301				53	02754	61626	5-	02757	24517	02	62428	16368
321	87	81753	58826	46	00761	58412	07	05690	23323	57	05685	19227
299	8-	81646	24786	5-	01744	24614	50	00751	24311	5-	02757	20217
292	86	01851	56764	40	01941	25514	50	01853	23413	57	51853	19258
310												
614	53	02744	57627	96	10746	59586	40	05664	24284	62	51426	18368
333	24	02755	59687	87	02853	25528	52	61743	22368	52	61746	53468
334	--	64537	26568	--	92646	28646						
340	5-	02948	24588	27	02953	26287	5-	02766	00016	5-	51648	16358
136	9-	82418	91888	17	01752	25614	57	01763	22314	07	02790	21217
336	14	22763	28335	51	22653	28665						
350				86	01744	59584	57	05654	22426	6-	52638	20358
368	57	62635	55768	57	61651	57665	5-	52548	24358	62	22535	23568
379	62	02737	53669	57	02744	58685	5-	02768	22328	6-	22728	24368
390	62	61636	57767	5-	05637	58627	07	05690	22314	5-	57318	00058
382	5-	22747	55767	43	02741	24427	5-	05668	21328	5-	21748	22358
438	6-	03638	24928									
430	5-	02746	55757	86	02744	24565	57	02668	24428	53	12764	22355
409	51	21635	21668	5-	57308	55558	5-	02648	55228	5-	02518	55428

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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 19th October 1941.
1 S.E. England, 2 E. England, 3 E. Midlands	Fresh westerly winds backing southwest, probably strong locally on the coast; mainly cloudy; some local drizzle; mild and close.
4 W. Midlands, 5 S.W. England, 6 South Wales	Winds backing southwest, fresh to strong at times on the coast, probably veering later in period; dull with occasional light rain or drizzle with hill fog and perhaps local coast fog; brighter periods late in period; mainly very mild and close.
7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England	Winds mainly southwest fresh to strong at times; cloudy to dull with occasional rain or drizzle; brighter intervals temporarily later today; mild.
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	Winds south to southwest becoming fresh to strong, veering temporarily; dull, some rain; then brighter periods; further rain tomorrow; changeable temperature.
17 N. W. Ireland, 18 N. E. Ireland	Winds veering westerly fresh to strong, backing southwest; bright intervals with some showers at first; dull and rainy later; changeable temperature.
19 S. E. Ireland, 20 S. W. Ireland	As 4-6.

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

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

GENERAL INFERENCE.

A depression off northwest Ireland is moving northeast and will probably be followed by another development now indicated to northeast of the Azores. Weather will continue mild and cloudy in the southeastern half of England but elsewhere conditions will be rather changeable with further occasional rain.

FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 10.30h.

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

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of
Sunday 19th October.
1941.

Clarke's Projection Scale 1: 4X10⁷ along meridian at 55°N.
Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— ○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ● Rain falling. ✱ Snow. ✱ Sleet. △ Hail. Fog. ≡ Mist. ≡ Thunder. (Σ) 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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 19th October, 1941.

No. 29,186.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High. (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1012·2	+18	WSW	4	c	55	85	7	–	2	–	0	9+	–
	S. Farnborough	226	1013·1	+22	SW	3	Z_0	55	85	6	5	–	–	10	10	4500
	Boscombe Down	417	1013·5	+18	W'S	3	c	52	87	7	5	–	–	10	10	600
	Thorney Island	10	1013·6	+18	W	3	Z_0	53	85	6	5	–	–	10	10	3200
	Lympne ...	346	1012·8	+18	WSW	3	c	55	75	8	5	–	–	9+	9+	3500
	Manston ...	154	1011·1	+18	W'S	4	Z_0	55	85	6	5	7	–	1	10	3000
2	Shoeburyness ...	11	1011·4	+16	W'N	4	c	56	75	6	2	4	2	0	7-8	–
	Felixstowe ...	15	1009·5	+14	W	3	bc	55	85	7	–	7	–	0	4-6	–
	Gorleston ...	5	1009·5	+30	W	3	Z_0	50	85	6	5	–	–	4-6	4-6	1500
	Mildenhall ...	19	1010·3	+22	W	4	bc	52	92	7	–	7	–	0	2-3	–
	Cranwell ...	240	1009·0	+20	W'N	3	Z_0	49	85	6	5	–	–	2-3	7-8	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1011·2	+22	WSW	3	c	53	75	6	5	–	–	10	10	5000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012·7	+4	NW	5	c	58	97	6	5	2	–	7-8	10	1500
	Bristol ...	209	1013·2	+18	W	3	d_0d_0	53	92	6	5	–	–	10	10	1000
	Portland Bill ...	32	1014·4	+20	W	4	ir	57	85	7	5	–	–	10	10	2500
	Plymouth ...	82	1015·6	+26	W	6	id_0	60	85	5	5	2	–	7-8	10	1000
	The Lizard ...	240	1017·0	+16	W'S	6	0	55	97	6	5	–	–	10	10	1500
	Scilly (St. Mary's)	163	1016·6	+6	W'N	5	c	58	92	6	5	2	–	4-6	7-8	1200
	Guernsey ...	175														
6	Pembroke ...	142	1011·7	+2	SW'W	4	d_0d_0	56	97	6	5	2	–	7-8	10	1500
7	Holyhead (Valley)	26	1009·2	+8	W	5	Z_0	55	85	6	5	2	–	1	10	2000
	Chester (Sealand)	16	1009·7	+20	WSW	2	c	53	85	6	4	7	6	2-3	9+	6800
8	Manchester ...	235	1009·7	+22	SW'W	2	c	50	85	6	5	7	–	7-8	9	2000
10	Spurn Head ...	29	1008·1	+6	W	4	bc	50	75	6	2	–	–	2-3	2-3	4000
	Catterick ...	175	1007·8	+26	WSW	2	Z_0	49	75	6	5	–	6	1	7-8	4500
	Tynemouth ...	108	1005·4	+16	WNW	4	bc	48	85	7	2	–	–	2-3	2-3	1500
11	St. Abbs Head	280	1003·2	+30	WNW	6	bc	49	65	8	4	4	–	2-3	4-6	2500
	Leuchars ...	36	1002·4	+26	WSW	3	Z_0	45	85	6	5	–	–	4-6	4-6	3200
12	Renfrew (Abbotsl.)	19	1005·0	+12	WNW	5	Z_0	50	75	6	5	–	–	2-3	2-3	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1007·3	+14	WNW	5	bc	53	75	8	8	4	–	1	4-6	3000
13A	Tiree	22	1004·1	+14	NW'W	4	bc	51	85	8	–	–	4-6	4-6	2500	
13B	Stornoway ...	80	1002·4	+22	SW	2	c	44	85	8	5	7	–	9	10	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1000·0	+26	W	3	pr	40	92	8	2	–	–	9	9	1600
16	Sumburgh ...	30	999·1	+30	WNW	4	b	48	75	8	8	–	–	1	1	2500
17	Blacksod Point	18	1005·4	-14	S'W	3	rr	53	97	7	6	–	–	10	10	800
18	Malin Head ...	84	1005·2	+8	W	3	c	51	75	8	5	7	–	4-6	7-8	2500
	Aldergrove ...	268	1007·6	+8	SW	3	ir_0	50	92	7	–	2	–	10	10	4800
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1012·0	+10	SW'W	5	c	50	85	7	6	–	–	10	10	1500
	Roches Point	22	1011·7	+6	W	4	c	57	92	7	5	–	–	9+	9+	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1013·7	+8	SW	2	c/d	55	92	6	5	–	–	10	10	2500	1	*
	Croydon ...	1014·1	+6	SW	4	c/d	56	97	7	5	2	–	9+	10	1000	1	*
	S. Farnborough	1014·3	+6	WSW	4	c/d	57	92	8	5	–	–	10	10	800	1	*
	Boscombe Down	1015·5	+14	W	5	c	57	85	8	5	–	–	10	10	1000	0	*
	Thorney Island	1015·7	+12	W	3	bc	59	85	8	5	4	–	4-6	4-6	2500	1	*
	Lympne ...	1015·4	+12	W	1	dc	52	97	2	–	–	–	10	10	1150	1	§
	Manston ...	1014·6	+18	SW'W	3	d_0d_0	53	92	6	5	–	–	10	10	1200	1	*
2	Shoeburyness ...	1014·7	+16	SW'W	3	dc	55	92	3	5	2	–	9+	10	1500	1	*
	Felixstowe ...	1012·8	+14	SW	3	id_0	54	92	6	–	2	–	10	10	3000	1	3
	Gorleston ...	1012·7	+16	SW	1	c	48	85	7	–	4	–	0	7-8	–	0	2
	Mildenhall ...	1012·7	+10	SW	3	id_0	52	97	6	7	–	–	10	10	4000	1	*
	Cranwell ...	1011·1	+2	WSW	3	c	52	85	7	–	7	–	0	10	–	0	*
3	Birmingham ...	1011·5	0	SSW	2	c/d	51	97	5	5	–	–	10	10	800	1	*
	Upper Heyford	1012·8	+6	SSW	2	c/d	53	97	6	5	–	–	10	10	300	1	*
4	Ross-on-Wye	1012·1	0	W'S	4	bcq	59	85	7	5	–	–	4-6	4-6	3000	1	*
5	Hartland Point	1014·9	+12	W	5	c	58	92	7	8	2	–	4-6	9+	1500	1	4
	Bristol ...	1014·7	+14	W	5	d_0d_0	58	92	6	5	–	–	9+	9+	700	1	*
	Portland Bill ...	1015·5	+6	WSW	5	c	60	85	7	5	–	–	10	10	2500	0	5
	Plymouth ...	1016·7	+6	W	3	Z_0	59	85	6	6	–	–	10	10	800	1	3
	The Lizard ...	1018·3	+10	WSW	5	0	58	97	7	5	–	–	10	10	1100	0	5
	Scilly (St. Mary's)	1017·9	+6	W	5	c	58	92	7	5	–	–	10	10	1200	1	5
	Guernsey ...																
6	Pembroke ...	1013·7	+8	W'S	7	cq	59	92	7	8	–	–	9	9	1500	1	4
7	Holyhead (Valley)	1008·6	-6	SW	5	Z_0	58	92	6	5	2	–	9	10	1500	1	5
	Chester (Sealand)	1009·6	-6	SE'S	1	c	52	92	6	5	7	–	9	10	800	1	*
8	Manchester ...	1010·0	-2	SSW	2	d_0d_0	50	97	5	6	2	–	7-8	10	800	1	*
10	Spurn Head ...	1009·9	+4	SW'S	3	c	51	85	6	1	2	–	2-3	7-8	4000	0	4
	Catterick ...	1009·1	+6	S'W	2	r/r	50	85	8	5	7	–	4-6	9+	3500	1	*
	Tynemouth ...	1007·9	+8	SW	3	Z_0	50	85	6	8	–	–	7-8	7-8	1600	1	3
11	St. Abbs Head	1006·2	+8	W	3	c	47	85	9	5	2	–	1	10	2400	0	3
	Leuchars ...	1005·0	+8	W	2	c	46	92	7	5	–	–	9+	9+	3500	1	*
12	Renfrew (Abbotsl.)	1006·8	-2	SSW	3	ir	50	85	7	5	2	–	7-8	10	1200	1	*
	Eskdalemuir ...	1007·0	0	S	1	id	43	92	6	–	2	–	10	10	800	1	*
	Point of Ayre ...	1006·9	-10	SSW	2	r/r	51	97	6	6	2	–	2-3	10	800	1	2
13A	Tiree	1002·6	-12	S'W	1	r/r	47	97	7	–	2	–	10	10	1800	1	3
13B	Stornoway ...	1001·2	-14	SSW	2	r/r	46	85	8	8	7	–	9+	10	1500	1	1
15	Dalwhinnie ...	1004·4	+4	SW	1	bc	42	85	7	5	4	–	4-6	4-6	2500	1	*
	Aberdeen ...	1004·9	+6	WSW	2	bc	43	75	8	–	5	5	0	4-6	–	1	1
	Wick ...	1002·3	+10	WSW	2	c	42	85	9	2	5	–	1	9	2500	1	*
16	Sumburgh ...	999·3	+14	W'N	5	pr	48	85	8	8	–	–	9	9	2500	1	*
17	Blacksod Point	1004·1	0	SSW	6	r/r	58	92	7	6	–	–	10	10	800	1	5
18	Malin Head ...	1001·2	-28	SE	3	ir	49	97	6	5	–	–	9+	9+	800	1	4
	Aldergrove ...	1004·5	-20	S	2	id_0	51	97	6	6	–	–	7-8	10	400	1	*
19	Birr Castle ...	1008·7	+4	W	4	ir	58	85	7	6	2	–	7-8	10	1500	1	*
20	Valentia Obsy.	1012·1	+2	SW	4	ir	59	85	8	5	1	–	9	10	2500	1	5
	Roches Point	1012·5	+2	W	4	c	59	85	8	5	–	–	7-8	7-8	1500	1	5

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F.	Temperature. Min. Night 18h–7h °F	Temperature. Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine 18th Hrs. (36)
1	London (Kew)	62	54	52	0·1	1	0·2
	Croydon ...	62	58	50	0·2	0·3	0·5
	S. Farnborough	63	53	52	0·1	Tr	0·1
	Boscombe Down	60	52	51	0·1	Tr	0·0
	Thorney Island	63	54	54	Tr	0·1	*
	Lympne ...	62	52	51	Tr	0·3	0·0
	Manston ...	64	53	51	Tr	Tr	0·0
2	Shoeburyness ...	64	53	50	Tr	0·1	0·2
	Felixstowe ...	64	53	49	5	Tr	0·4
	Gorleston ...	62	48	43	7	–	*
	Mildenhall ...	63	49	43	0·3	Tr	0·9
	Cranwell ...	61	47	46	2	–	1·5
3	Birmingham ...	62	51	48	0·3	0·2	1·1
	Upper Heyford	62	52	51	2	1	*
4	Ross-on-Wye	63	53	52	–	–	1·1
5	Hartland Point	59	54	52	0·6	3	0·0
	Bristol ...	61	53	52	0·1	1	0·0
	Portland Bill ...	61	54	*	–	3	*
	Plymouth ...	62	59	57	Tr	4	0·3
	The Lizard ...	59	55	*	1	–	0·3
	Scilly (St. Mary's)	61	58	*	0·1	–	
	Guernsey ...						
6	Pembroke ...	66	53	*	Tr	1	0·6
7	Holyhead (Valley)	60	51	51	0·5	2	*
	Chester (Sealand)	61	51	45	4	0·5	1·6
8	Manchester ...	58	50	45	7	2	*
10	Spurn Head ...	60	49	*	4	Tr	
	Catterick ...	59	46	38	3	Tr	5·1
	Tynemouth ...	58	48	43	5	–	*
11	St. Abbs Head	53	50	*	10	–	*
	Leuchars ...	54	43	39	11	–	2·8
12	Renfrew (Abbotsl.)	54	45	39	6	0·4	4·5
	Eskdalemuir ...	54	40	36	2	0·2	3·5
	Point of Ayre ...	58	49	*	0·1	3	2·9
13A	Tiree	54	47	*	6	1	4·8
13B	Stornoway ...	50	44	*	8	–	5·0
15	Dalwhinnie ...	46	39	32	5	0·1	0·5
	Aberdeen ...	48	39	29	6	–	1·1
	Wick ...	47	39	36	4	0·5	*
16	Sumburgh ...	53	45	40	0·2	0·6	*
17	Blacksod Point	58	51	*	1	4	*
18	Malin Head ...	(53)	45	*	3	3	7·3
	Aldergrove ...	55	47	43	0·5	4	0·6
19	Birr Castle ...	59	50	50	2	2	1·7
20	Valentia Obsy.	60	53	53	4	1	0·1
	Roches Point	62	52	*	0·3	0·6	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cprc	ccz$_0$	end$_0$dcm$_0$	65	54	52	0·1	1	0·2	*	*	8
Croydon	217	cm$_0$cir$_0$	cir$_0$prc	cid$_0$cid$_0$	62	58	50	0·2	0·3	0·5	*	*	7
Greenwich (Royal Observatory)...	149	cm r$_0$q$_0$	r$_0$ cqc	c	63	53	50	–	0·0	0·3	69	88	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	64	54	52	0·2			55	92	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*									*
Camden Square	110	c	bc	*	63	53	51	–	0·5	*	*	89	*
Kensington	80	r$_0$cbc	bc	*	63	54	52	Tr	0·3		71	91	*
Hampstead Observatory	450	dcp	or	0	61	52	47	Tr	0·4		*	95	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 19th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	17h.	-0·1	near end of period

FOREIGN OBSERVATIONS.

Evening of 18th October

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	997·6	N	7	c	37
Lisbon (18h and 07h)	1022·3	NNW	1	Z_0	70
¶Madrid (18h and 07h)					
Cairo (Heliopolis) (18h and 06h)	1018·5	N'E	1	b	71
Toronto (13h and 01h)	1022·0	NNW	2	d_0d_0	46
Washington (13h and 01h)					

Morning of 19th October

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
997·5	NNE	3	c	39
1021·8	NNE	2	b	63
999·7	N	1	b	55
1019·5	–	0	bz$_0$	64
1016·6	–	0	dr	56
1022·4	S	1	c	66

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
64	61	–	–
	55		–
83	58	–	–
70	53	–	–

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

Objects not visible at

0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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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 20th October 1941.

No. 29,187.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1015.8	+8	SW'W	3	c	61	75	8	8	2	-	7-8	9+	1500
	Croydon	1016.0	+6	WSW	4	c	62	75	7	5	-	-	10	10	2000
	S. Farnborough	1016.1	+2	WSW	4	c	68	75	8	1	3	-	9	9+	2200
	Boscombe Down	1016.8	0	W'S	4	c	61	75	8	5	-	-	10	10	2000
	Thorney Island	1017.1	+2	WSW	4	c	62	85	7	7	-	-	7-8	10	1500
	Lympne	1016.9	+6	W	4	bc	64	65	8	1	-	-	4-6	4-6	2500
	Manston	1015.1	+2	W'S	5	bc	65	65	7	5	3	-	4-6	4-6	2000
2	Shoeburyness	1015.2	+4	W	4	c	64	75	8	2	-	-	7-8	7-8	2300
	Felixstowe	1013.4	0	WSW	4	c	64	75	7	7	-	-	9	9	2000
	Gorleston	1012.6	-10	SW'S	3	bc/p	60	85	7	6	-	-	4-6	4-6	2000
	Mildenhall	1013.1	+2	SW'W	4	c	64	85	8	8	7	-	7-8	9+	2000
	Cranwell	1010.9	0	W'S	5	bc	63	75	7	7	-	-	4-6	4-6	1800
3	Birmingham	1013.3	+12	WSW	4	c	61	75	8	5	-	-	9+	9+	1500
	Upper Heyford	1014.2	+8	SW'W	4	c	60	85	8	5	-	-	10	10	2000
4	Ross-on-Wye	1014.4	+4	W'S	5	cq	61	75	8	8	-	-	9+	9+	3000
5	Hartland Point	1015.5	+2	WSW	5	c/p	60	85	7	5	6	-	4-6	7-8	1000
	Bristol	1016.6	+6	W	5	c	62	75	8	5	-	-	9	9	4000
	Portland Bill	1018.1	+8	WSW	5	o	59	92	7	5	-	-	10	10	2500
	Plymouth	1018.7	+8	W'S	5	dod	59	85	6	5	-	-	10	10	1800
	The Lizard	1020.2	+4	WSW	4	c	59	85	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	1019.5	+6	W'S	5	c	60	85	7	5	2	-	7-8	9+	1000
	Guernsey														
6	Pembroke	1015.6	+8	SW'S	6	c	59	92	6	5	-	-	9	9	1500
7	Holyhead (Valley)	1009.9	+4	SW	5	cjp	59	92	7	5	3	-	7-8	7-8	2000
	Chester (Sealand)	1010.9	+10	WSW	4	c/d	61	75	8	5	-	-	9+	9+	900
8	Manchester	1011.3	+14	SW'S	6	c	60	75	8	5	-	-	4-6	9+	2000
10	Spurn Head	1009.7	-12	SW	2	c/r	59	92	6	5	-	-	9+	9+	2500
	Catterick	1007.2	+10	W	3	c	61	75	8	5	7	-	4-6	7-8	1500
	Tynemouth	1006.3	-12	SW	3	ir	51	97	6	-	2	-	10	10	1600
11	St. Abbs Head	1002.3	-40	S	4	roro	48	97	7	5	2	-	7-8	10	2000
	Leuchars	1001.9	-30	SE	2	roro	47	97	6	5	2	-	9+	10	500
12	Renfrew (Abbots I.)	1002.4	-14	WSW	4	dodo	57	92	5	5	2	-	7-8	10	700
	Eskdalemuir	1003.6	-16	SW	6	roro	54	97	6	-	2	-	10	10	450
	Point of Ayre	1005.7	+4	W	6	b	61	75	8	8	4	9	Tr	1	2000
13A	Tiree	997.9	-6	WSW	6	dd	52	97	6	-	2	-	10	10	700
13B	Stornoway	996.6	-32	E	5	rr	47	87	7	5	7	-	7-8	9+	2000
15	Dalwhinnie	1000.1	-24	S	3	ir	47	85	6	5	-	-	10	10	1500
	Aberdeen	1002.4	-20	SSW	2	roro	48	75	5	5	-	-	10	10	900
	Wick	999.8	-22	SSW	3	iro	49	85	8	5	2	-	4-6	10	1800
16	Sumburgh	1000.3	+2	WSW	3	c	51	75	8	4	7	-	1	10	3000
17	Blacksod Point	1002.9	-4	WSW	8	roro	59	92	7	6	-	-	10	10	800
18	Malin Head	999.9	-2	SSW	5	c/pr	59	92	8	9	-	-	9+	9+	1500
	Aldergrove	1004.2	-6	SW'W	5	c	58	85	7	5	-	-	10	10	1500
19	Birr Castle	1008.8	-2	W	4	c	62	75	8	8	-	-	9	9	1500
20	Valentia Obsy. †	1011.4	-8	SSW	6	c	61	85	8	5	7	-	7-8	10	1500
	Roches Point	1013.5	0	W'S	5	c	60	85	8	5	-	-	9	9	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 19th (37)	Weather 13h.–18h. 19th (38)	Weather 18h. 19th to 1h. 20th (39)	Weather 1h.–7h. 20th (40)
London (Kew)	1016.3	+8	SW	3	c	59	75	7	5	-	-	9+	9+	1500	1	*	cmocirc	c	cmobc	bcrmrbc
Croydon	1016.5	+6	SW	3	c/d	59	85	7	5	-	-	4-6	10	1300	1	*	c	ccdo	cbcb	idroro
S. Farnborough	1016.9	+12	SW'W	4	c	59	85	8	5	-	-	10	10	3200	1	*	cb,c	iroc	cbbc	bccrodoc
Boscombe Down	1017.6	+8	SW	4	c	58	75	8	5	-	-	9+	9+	2000	0	*	cmodocid	cjp	c	cidoro
Thorney Island	1017.9	+6	W	4	c	60	85	7	5	-	-	9+	9+	2500	0	*	bcc	c	cobo	obciro o
Lympne	1018.0	+8	WSW	3	c	58	85	7	5	-	-	10	10	3000	1	§*	ofgcfcbc	bcc	cbcmo	cmodobcc
Manston	1016.4	+6	SW'W	3	c	60	85	6	5	-	-	10	10	5000	0	*	ocdodomo	bccmo	cbcbmo	bbcciro
Shoeburyness	1016.3	+2	SW'W	4	c	61	75	7	8	-	-	9+	9+	2500	0	*	dofobc	cpoc	cbbc	bciroc
Felixstowe	1014.2	+6	SW'W	4	z	60	75	6	5	-	-	9+	9+	4000	1	3	dodomo	bcc	c,b	b,cb
Gorleston	1014.2	+8	SW	3	c	61	75	7	5	-	-	9+	9+	1800	1	2	cdoicbc	bcciroc	b	bccbc
Mildenhall	1013.4	+4	SW	4	c	60	85	7	5	-	-	9+	9+	2800	0	*	bidoddomoc	c	cb,c	cprobcb
Cranwell	1011.9	+2	W'S	4	c	58	75	7	5	-	-	7-8	7-8	3000	0	*	cormobcc	c	bczocmo	cmobcb
Birmingham	1013.0	0	SW	3	c	58	85	8	6	-	-	9+	9+	800	1	*	roroc	c		rocb
Upper Heyford	1014.5	-2	WSW	4	c	58	85	8	5	3	-	7-8	9+	1200	1	*	cmocbcc	c	ccmo	cmobcbmo
Ross-on-Wye	1014.6	0	WSW	4	c	60	75	8	5	-	-	9	9+	3000	1	*	cbcc	cqc	ccq	ccb
Hartland Point	1015.9	-2	W	5	c	59	85	7	5	2	-	4-6	9+	2000	1	5	irocro	c	ciroc	ciro
Bristol	1016.8	+2	WSW	4	c	59	75	7	4	-	-	10	10	2000	1	*	c	cdoc	cmorododo	cmoidopr
Portland Bill	1018.0	+4	WSW	5	o	60	85	8	5	-	-	10	10	2500	1	5	co	oc	c	cPR
Plymouth	1019.1	+4	W'S	5	c	59	75	7	5	-	-	10	10	3000	1	4	cmoromoid	ciromoc	ccroromo	croromoid
The Lizard	1020.2	+2	SWW	5	o	57	92	7	5	-	-	10	10	1500	0	5	c	o	cproo	oid
Scilly (St. Mary's)	1018.7	-6	WSW	5	c	59	85	7	5	1	-	10	10	1200	1	5	c	c	c	cidorf
Guernsey																				
Pembroke	1014.0	-6	SW	6	cq	59	92	6	5	-	-	10	10	1500	4	1	cqmo	cq	cbcq	qbc
Holyhead (Valley)	1009.6	0	SW'S	6	z	59	85	6	5	3	-	7-8	9	1500	0	5	cidocmo	cmjpcbc	cbcbmo	bcbbczo
Chester (Sealand)	1010.6	+2	SW'W	4	bc	60	75	7	5	-	-	4-6	4-6	1200	1	*	irodoc	cbqo	bcprobo	bbcb
Manchester	1010.2	-6	SWS	6	b	58	75	7	5	-	-	1	1	4000	1	*	cmoiroc	cirobc	bccbc	bbc
Spurn Head	1009.4	-4	SW	5	c	58	85	6	8	2	-	7-8	9	2500	1	4	brc	cq	cq	cq
Catterick	1007.0	-12	W'S	4	c	59	75	7	8	-	-	7-8	7-8	1100	1	*	cddfmoc	cbcc	cirob	biro
Tynemouth	1004.9	-4	WSW	3	c	59	85	6	8	-	-	9	9	2000	1	3	bmoir	biroc	cbcbq	bcq
St. Abbs Head	997.5	-20	SW	6	bcq	59	85	8	4	4	-	2-3	4-6	2500	1	4	crr	crbcq	bcq	bcq bq
Leuchars	997.5	-36	WSW	7	id	58	92	7	5	-	-	9+	9+	700	1	*	crroromo	roromodo	bcmoiRroro	bcmoroRo
Renfrew (Abbots I.)	1000.7	-6	SW	5	DD	57	92	5	5	-	-	10	10	700	1	*	rorfrdo	mododoDD	bcirobidozo	bzoido
Eskdalemuir	1003.3	-6	SW'S	6	roro	54	92	4	-	2	-	10	10	450	1	*	cddrr	orrro	orrcbc	bcprc
Point of Ayre	1005.6	-2	WSW	6	c	60	75	7	6	2	-	7-8	10	1500	1	5	domcbq	bbcq	cbcb	b
Tiree	996.1	0	WSW	7	bc	56	85	7	8	-	-	4-6	4-6	1800	0		brrd	bc	cpr	cbc
Stornoway	989.2	-8	SSW	6	c	55	75	7	5	7	-	4-6	7-8	1200	1	3	cprorr	crrc	crrcphr	cpr
Dalwhinnie	996.0	-26	SW	4	ir	54	92	6	5	-	2	7-8	9	2500	1	*	ciro	oirbc		cpso
Aberdeen	995.7	-38	SSW	5	zo	52	85	6	6	5	1	2-3	4-6	1100	1	3	bcdororrro	zororocz	bczobzo	b
Wick	991.4	-50	SSW	3	c/pr	50	97	7	8	-	-	7-8	9+	600	1	^	cciro	rrorocpro	cbcprob,c	proiRp
Sumburgh	993.5	-50	S	4	roro	47	92	7	5	7	-	9+	10	1500	1	4	probcc	irocir	r	crorocbcc
Blacksod Point	1004.4	+12	WSW	7	bcq	57	75	7	2	6	-	2-3	4-6	1500	0	5	roq	bcq	bcq	bc
Malin Head	999.1	+2	SW	6	c/pr	57	85	7	3	-	-	9	9	1500	1	5	cproc	cprc	cprcc	bc
Aldergrove	1003.3	-6	SW	5	rr	58	97	5	6	2	-	10	10	200	1	*	cmodoc	cidocb	brdcctro	cprc
Birr Castle	1007.9	-2	W	4	iro	59	92	8	8	-	-	10	10	1500	1	*	c	ciro	*	bbcc
Valentia Obsy. †	1012.3	+14	SW'W	5	o/d	60	92	7	5	-	-	10	10	1500	1	5	ciroc	irododoc	cbcPRb	bbcc
Roches Point	1012.4	-2	WSW	5	dd	59	97	6	5	-	-	9+	9+	800	1	5	c	dd	b	bc

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/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/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.

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

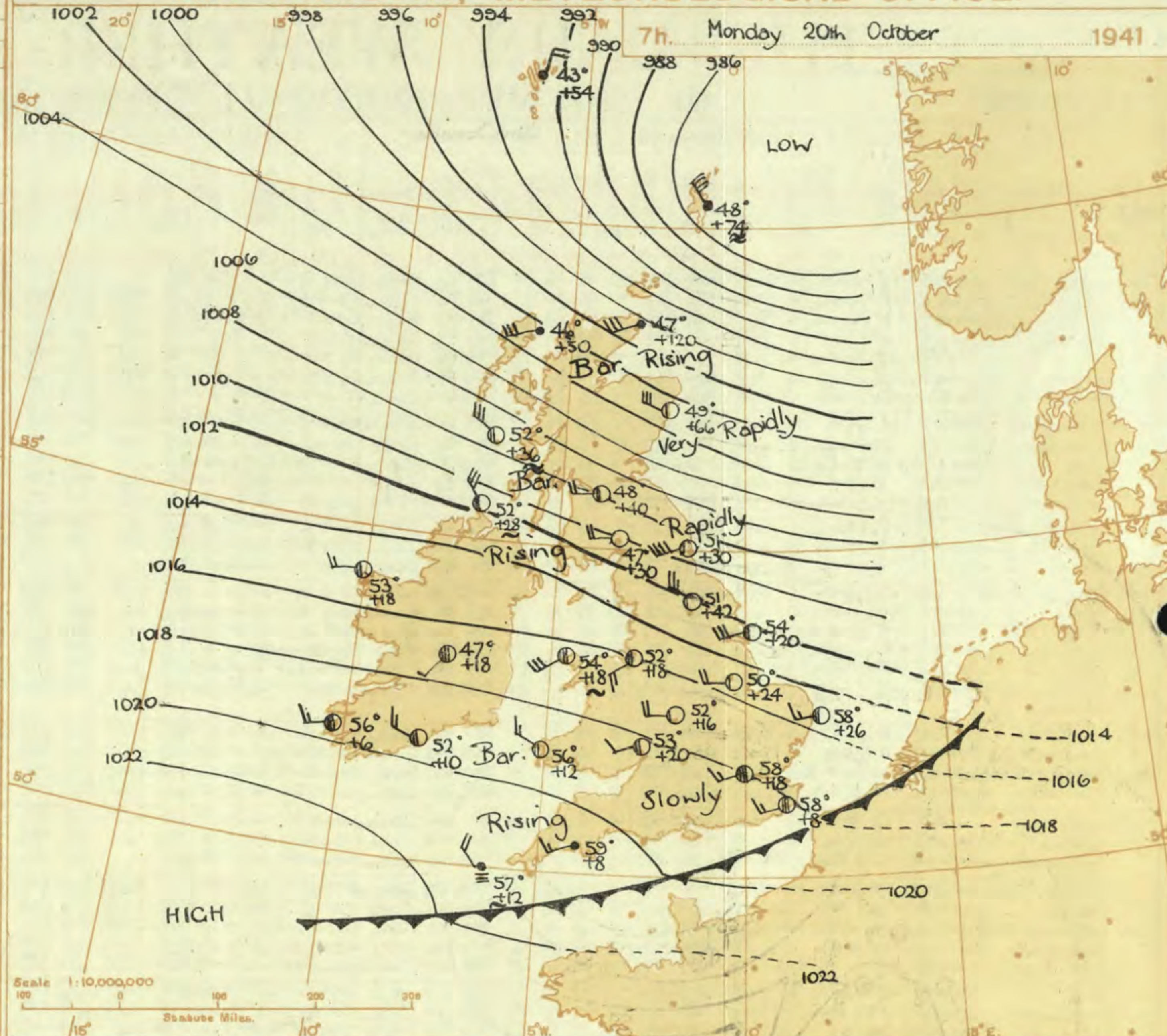
Abridged observations of additional stations in the AVIATION WEATHER CODE.

	13h. G.M.T. 19th October			18h. G.M.T.		01h. G.M.T. 20th October			07h. G.M.T.		
III	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN
109	82	61853	14888	52	62635	48568				87	14754	59826
115	52	62835	16388	52	81834	20487	02	62738	53788			
203	--	56700	08289	3-	82728	49768						
206	52	64743	10468	53	02845	20267	8-	82858	55888	8-	82857	55687
210	02	62768	10368	52	54656	53466	00	00000	53800	87	81955	56587
220	52	59416	22458									
230	52	64545	51468	87	02846	53567	8-	81747	22787	8-	81657	57487
245	6-	58638	16468	5-	22647	22367	50	22742	53762	10	00951	56601
260	52	62735	24168	5-	02736	53628	5-	82758	55988	50	00861	55511
278	5-	02847	20367	57	02837	17358	8-	02857	55617	86	01852	23424
279	5-	05657	05357	62	51645	52758	50	01854	57714	80	00858	55413
285										20	01743	28613
288	8-	21947	21457	57	02857	51587	50	00751	53711	50	00851	54501
575	6-	51747	22557	8-	02745	57565	5-	81647	57717			
301	5-	02758	57528	57	02763	55616	10	00753	57763	20	01754	58714
321	63	05645	16327				50	00763	56613	14	05653	23314
299				50	01753	20313	5-	05656	22516	00	00790	22400
292	5-	02848	22428	5-	02755	58555	50	00842	56562	50	01854	23414
310										--	01644	24414
614	7-	02767	55557	5-	05647	20327	50	05564	55564	03	05690	55401
333	5-	02734	20627	3-	02748	53628	00	00790	21610			
334										--	02645	20316
340	5-	02947	22427	50	01855	22615	50	25755	53485	03	00890	22302
136	5-	61745	20467	5-	05657	20417	50	01864	53614	20	00861	23612
336										51	01762	28415
350				5-	02757	55427	5-	05638	53528			
368	57	02744	22527	5-	05646	55528	52	22635	23568	54	01743	24414
379	5-	02848	55528	57	02745	53526	6-	52637	22557	5-	00742	24352
390	8-	05944	25426	5-	02758	57528	52	05654	53518	50	05652	24261
382	5-	61847	22627	5-	02756	21426	5-	52648	22458	77	01742	23303
438	56	02755	22515	5-	21658	22558				02	57538	22528
430	8-	02857	55527				5-	02658	23528			
409	5-	21758	20658	52	05757	53528	5-	05528	20768	5-	56518	27368

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 20th October 1941



Barometer. Isobars are drawn for intervals of two millibars. Wind, Weather Symbols. For explanation see opposite page. Sea Disturbance. Rough. High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FRONTS or boundaries between masses of air of different 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.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. Monday 20th October
1 S.E. England 2 E. England 3 E. Midlands 4 W. Midlands 5 S.W. England 6 South Wales	Moderate to light westerly winds. Fair; some local fog around dawn tomorrow. Average temperature.
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	Strong northwest to west winds; gale locally at first, quickly moderating. Occasional squally showers, bright intervals. Average temperature or rather cool.
19 S. E. Ireland 20 S. W. Ireland	Moderate westerly winds. Fair apart from a few scattered showers. Average temperature.

GENERAL INFERENCE.

A very vigorous depression centred off Northeast Scotland is moving away eastwards and a ridge of high pressure is spreading in from the West. It will be fair in the South, but in the North there will be squally showers, with strong winds at first, and gale locally, moderating.

FURTHER OUTLOOK.

Fair in the South, showery in the North.

Gale warnings in operation in districts 11, 15, 16; issued at 1840 G.M.T. 19. 10. 41.

Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Meteorological Office Dunstable. 0.269/4620 Wt.9176.0 6094 Gp.948 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.)

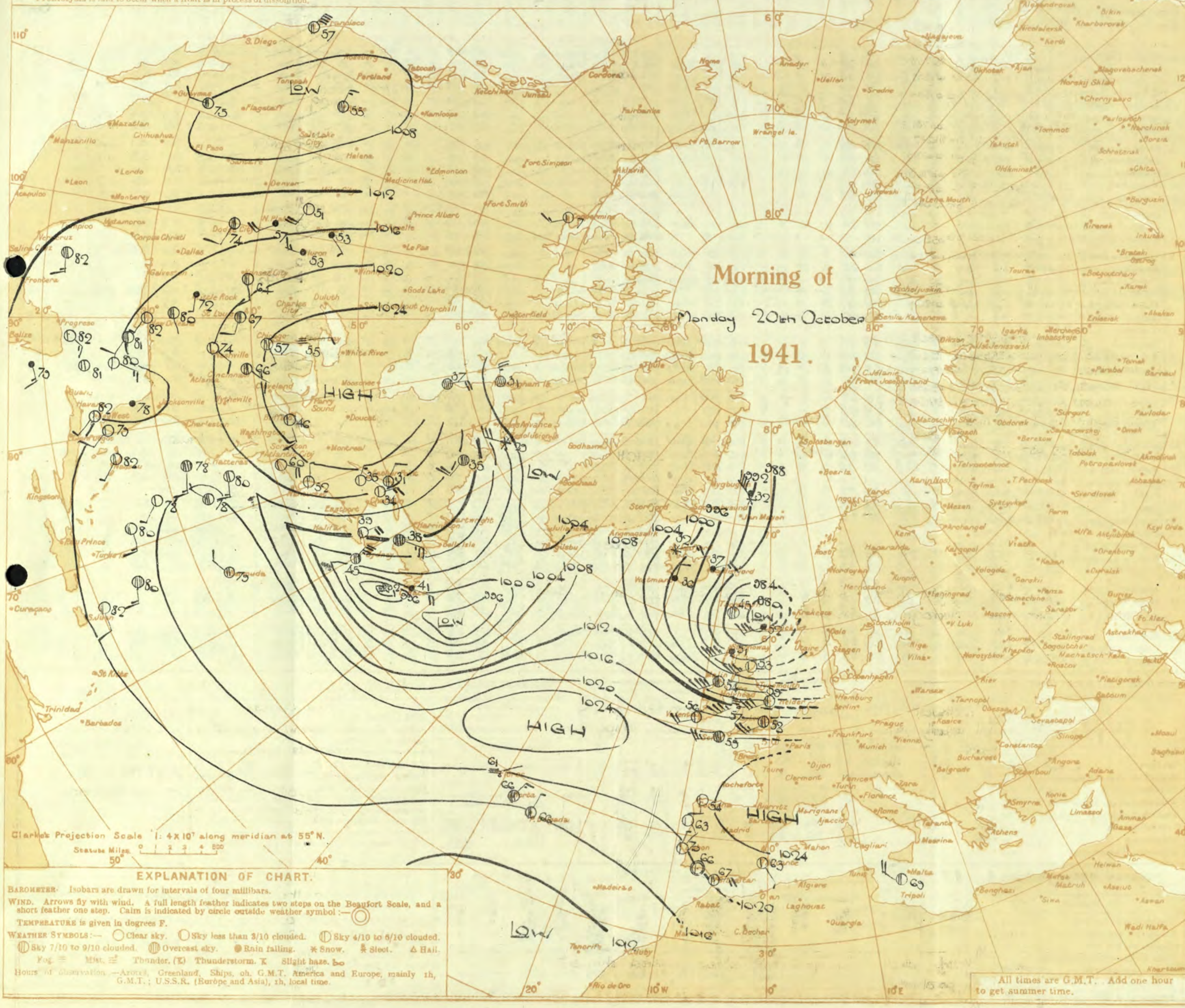
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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. (K) Thunderstorm. K Slight haze.

Hours of observation.—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 20th October 1941.

No. 29,187.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1016·6	-2	SW	5	c	58	85	7	5	–	–	9+	9+	3500
	S. Farnborough	226	1017·0	-2	SW'W	4	bc	58	86	7	5	–	–	2-3	2-3	4000
	Boscombe Down	417	1017·8	-2	SW	5	id$_o$	57	87	8	6	2	–	7-8	10	1200
	Thorney Island	10	1018·7	0	W'S	5	o	60	85	7	5	–	–	10	10	1300
	Lympne ...	346	1018·1	-2	W'S	4	z$_o$	57	85	6	5	–	–	4-6	4-6	3500
	Manston ...	154	1016·9	-2	SW'W	4	z$_o$	56	85	6	5	3	–	Tr	2-3	5000
2	Shoeburyness ...	11	1016·4	0	SW'W	4	bc	58	85	7	5	–	–	4-6	4-6	4000
	Felixstowe ...	15	1014·5	-2	SW	5	b	58	85	7	5	–	–	1	1	4000
	Gorleston ...	5	1013·1	-6	SW'W	3	z$_o$	58	73	6	–	–	–	0	0	–
	Mildenhall ...	19	1012·8	-6	SW	3	c	58	92	7	5	–	–	7-8	7-8	2100
	Cranwell ...	240	1010·5	-4	SW	6	r$_o$	60	85	6	5	–	–	10	10	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1014·8	+4	SW	4	c	57	97	6	5	–	–	10	10	500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1016·8	+10	W	6	c	58	97	6	5	2	–	4-6	9	1500
	Bristol ...	209	1016·9	+2	WSW	5	c/d	60	92	6	5	–	–	10	10	1400
	Portland Bill ...	32	1018·1	+2	SW	5	c	58	85	7	5	–	–	10	10	2500
	Plymouth ...	82	1018·1	+2	W	6	r$_o$r$_o$	59	97	6	5	–	–	10	10	700
	The Lizard ...	240	1020·4	+2	WSW	6	o	58	97	6	5	–	–	10	10	1000
	Scilly (St. Mary's)	163	1019·9	+4	W'S	5	c	59	97	6	5	1	–	7-8	9+	1100
	Guernsey ...	175														
6	Pembroke ...	142	1016·0	+14	W'S	7	bcq	59	85	7	8	6	–	2-3	4-6	1500
7	Holyhead (Valley	26	1012·6	+22	SW'S	7	z$_o$	57	75	6	5	–	–	4-6	4-6	3000
	Chester (Sealand)	16	1012·6	+28	NW'W	3	b	57	75	8	5	–	–	Tr	Tr	3000
8	Manchester ...	235	1011·6	+14	WSW	6	bc	58	75	7	5	–	–	2-3	2-3	3000
10	Spurn Head ...	29	1007·8	+14	SW'W	6	cq	59	85	6	8	–	–	7-8	7-8	2500
	Catterick ...	175	1004·9	+6	W	6	b	55	75	7	–	–	–	0	0	–
	Tynemouth ...	108	1002·7	+4	WSW	8	bq	56	65	7	–	–	–	0	0	–
11	St. Abbs Head	280	996·8	+8	SW	9	bcq	55	92	8	2	4	–	2-3	4-6	2500
	Leuchars ...	36	995·7	+12	W	8	r$_o$r	52	85	6	5	–	–	4-6	4-6	2200
12	Renfrew (Abbotsl.)	19	1001·0	+12	W'N	7	bc/d	52	75	5	5	–	–	2-3	2-3	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1007·4	+14	W'N	7	b	54	75	8	5	–	–	Tr	Tr	1500
13A	Tiree	22	1000·9	+60	W'S	8	c	52	85	7	8	–	–	7-8	7-8	1500
13B	Stornoway ...	80	983·8	+26	WSW	9	PR	51	92	7	6	7	–	9	9+	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	988·2	+64	WSW	7	PR	50	92	7	2	–	–	9	9	1400
16	Sumburgh ...	35	980·2	+50	SW	7	r$_o$	52	85	6	5	–	–	10	10	1000
17	Blacksod Point	18	1010·6	+24	W	8	bc/Q	55	75	7	2	–	–	4-6	4-6	2500
18	Malin Head ...	84	1004·4	+46	SW	8	c	54	65	6	9	–	–	7-8	7-8	1500
	Aldergrove ...	268	1008·0	+22	W'S	5	pr	51	85	7	8	3	–	9	9+	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1017·2	+20	WSW	4	bc	56	83	8	1	–	1	1	2-3	2500
	Roches Point	22	1016·4	+18	W	3	b	54	92	8	5	–	–	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 20th October

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1018·7	+20	WSW	3	bc	59	85	7	5	9	–	4-6	4-6	2500	1	*
	Croydon ...	1018·5	+18	WSW	3	c/r	58	97	7	5	–	–	9	9	5000	1	*
	S. Farnborough	1019·0	+16	WSW	3	c	59	85	8	5	2	–	7-8	9	1500	1	*
	Boscombe Down	1019·4	+16	W	4	z$_o$	56	92	7	5	3	–	4-6	9	2500	1	*
	Thorney Island	1018·8	+10	W	5	o/r	60	92	7	5	–	–	10	10	800	0	*
	Lympne ...	1019·4	+8	WSW	3	c	58	92	7	5	–	2	9+	9+	1500	1	4
	Manston ...	1018·3	+14	WNW	3	i$_o$	59	87	6	5	–	–	9+	9+	1500	1	*
2	Shoeburyness ...	1017·9	+16	WSW	3	c	60	85	7	5	4	–	7-8	7-8	3400	0	*
	Felixstowe ...	1016·2	+18	SW'W	4	b	57	92	7	5	–	9	Tr	1	2500	1	3
	Gorleston ...	1015·8	+26	W'S	3	bc	58	85	7	8	4	–	4-6	4-6	2000	0	3
	Mildenhall ...	1016·4	+22	W'S	4	b	55	85	8	7	–	9	1	1	2500	0	*
	Cranwell ...	1014·9	+24	W	4	b	56	85	8	–	4	–	0	Tr	–	0	*
3	Birmingham ...	1016·8	+16	W	4	b	52	75	6	5	–	–	Tr	Tr	2500	1	*
	Upper Heyford	1018·0	+26	W'S	3	b	53	85	8	5	4	–	Tr	1	2000	1	*
4	Ross-on-Wye	1018·3	+20	W'S	2	bc	53	75	8	2	–	–	2-3	2-3	2500	1	*
5	Hartland Point	1020·0	+18	W	3	i$_o$	56	97	6	5	2	–	7-8	9+	1200	1	4
	Bristol ...	1019·6	+18	W	3	c	55	97	7	8	3	–	7-8	9	1000	1	*
	Portland Bill ...	1020·0	+8	W	5	gr	60	85	7	5	–	–	10	10	2500	1	5
	Plymouth ...	1020·1	+8	W'S	3	d$_o$d$_o$	59	97	5	5	2	–	9	10	600	1	4
	The Lizard ...	1021·5	+10	WSW	5	i$_o$d$_o$	58	97	7	5	–	–	10	10	1000	1	5
	Scilly (St. Mary's)	1021·3	+12	NW	4	r$_o$	57	97	3	5	–	–	10	10	800	1	5
	Guernsey ...																
6	Pembroke ...	1019·3	+12	WNW	3	bc	56	85	7	8	4	–	4-6	4-6	2500	1	4
7	Holyhead (Valley	1016·4	+18	SW	6	c	54	75	7	5	7	–	2-3	7-8	2500	0	5
	Chester (Sealand)	1016·3	+18	SW'W	3	bc	52	75	7	5	4	1	2-3	2-3	3000	0	*
8	Manchester ...	1015·6	+18	SW'W	4	bc	52	75	8	5	–	–	4-6	4-6	2500	1	*
10	Spurn Head ...	1012·7	+20	W'S	6	bcq	54	78	6	5	–	–	4-6	4-6	4000	0	4
	Catterick ...	1011·1	+42	WNW	5	b	51	75	8	5	–	–	1	1	2500	1	*
	Tynemouth ...	1008·2	+30	WSW	8	bq	51	75	7	2	–	–	1	1	2400	1	4
11	St. Abbs Head	1004·5	+40	WNW	8	bq	49	65	8	4	–	–	Tr	Tr	2500	0	4
	Leuchars ...	1003·9	+42	W	7	b	48	75	8	–	–	–	0	0	–	1	*
12	Renfrew (Abbotsl.)	1009·0	+40	W	4	bc	48	75	8	5	–	–	2-3	2-3	1600	1	*
	Eskdalemuir ...	1009·8	+30	W	4	c	47	75	8	5	2	–	2-3	7-8	1500	1	*
	Point of Ayre...	1013·0	+20	WNW	6	b	52	85	8	2	4	–	Tr	1	1500	0	5
13A	Tiree	1008·0	+36	NW'W	6	bc	52	75	8	8	–	–	4-6	4-6	2500	0	7
13B	Stornoway ...	1002·4	+50	WSW	6	PR	46	92	7	5	7	–	9	9	2000	1	4
15	Dalwhinnie ...	1004·0	+40	W	4	PR	43	75	7	5	–	–	10	10	2500	1	*
	Aberdeen ...	1000·2	+66	W'N	6	b	49	65	8	5	–	–	1	1	2800	1	3
	Wick ...	997·4	+120	WNW	7	pr	47	85	7	2	6	–	9	9+	900	1	*
16	Sumburgh ...	984·7	+74	NW	8	pr	48	92	7	8	–	–	9+	9+	1000	1	7
17	Blacksod Point	1014·7	+18	W	3	bc	53	75	8	2	6	–	2-3	4-6	2500	0	3
18	Malin Head ...	1011·2	+28	NW	6	bc	52	65	8	9	–	2	2-3	4-6	4000	0	5
	Aldergrove ...	1014·1	+30	SW'W	3	c	49	92	8	5	7	–	7-8	9	2000	1	*
19	Birr Castle ...	1016·8	+18	SSW	1	c	47	85	8	5	–	–	7-8	7-8	2500	1	*
20	Valentia Obsy.	1019·1	+6	W'S	3	c	56	75	9	5	5	2	2-3	10	2500	1	4
	Roches Point	1019·1	+10	W'N	3	bc	52	85	8	5	–	5	2-3	4-6	2500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine Hrs. (36)
1	London (Kew)	63	57	54	Tr	2	1·2
	Croydon ...	63	57	50	Tr	0·5	1·6
	S. Farnborough	64	56	53	Tr	Tr	1·3
	Boscombe Down	61	56	52	Tr	0·2	8·2
	Thorney Island	65	59	57	–	Tr	*
	Lympne ...	66	55	48	0·2	Tr	2·5
	Manston ...	66	55	52	0·4	0·2	3·5
2	Shoeburyness ...	66	57	51	0·4	Tr	2·9
	Felixstowe ...	66	57	53	0·3	–	1·9
	Gorleston ...	63	57	54	0·2	–	*
	Mildenhall ...	66	55	48	0·2	Tr	0·7
	Cranwell ...	64	50	47	Tr	–	2·1
3	Birmingham ...	62	52	46	0·1	1	0·3
	Upper Heyford	63	53	50	–	–	*
4	Ross-on-Wye	62	53	47	–	–	0·6
5	Hartland Point	59	56	55	0·3	1	0·0
	Bristol ...	62	55	51	0·2	3	0·3
	Portland Bill ...	60	57	*	–	0·1	*
	Plymouth ...	62	58	56	0·2	2	0·0
	The Lizard ...	62	57	*	–	0·3	0·1
	Scilly (St. Mary's)	61	57	*	–	1	0·5
	Guernsey ...						
6	Pembroke ...	64	56	*	Tr	Tr	0·0
7	Holyhead (Valley	61	53	50	Tr	–	*
	Chester (Sealand)	65	52	43	Tr	Tr	1·8
8	Manchester ...	61	52	49	0·2	–	*
10	Spurn Head ...	61	53	*	2	–	0·3
	Catterick ...	62	51	44	1	Tr	3·0
	Tynemouth ...	60	54	46	5	–	*
11	St. Abbs Head	62	49	*	†	–	*
	Leuchars ...	58	48	44	4	0·5	0·0
12	Renfrew (Abbotsl.)	57	48	42	12	7	0·0
	Eskdalemuir ...	55	46	43	10	7	0·0
	Point of Ayre...	62	51	*	2·2	–	3·1
13A	Tiree	58	51	*	6	0·5	0·0
13B	Stornoway ...	57	45	*	16	8	0·0
15	Dalwhinnie ...	59	42	38	9	4	0·0
	Aberdeen ...	52	49	44	1	–	0·0
	Wick ...	50	46	43	4	5	*
16	Sumburgh ...	52	47	45	2	5	2·2
17	Blacksod Point	60	50	*	0·1	0·6	*
18	Malin Head ...	59	43	*	3	0·2	0·0
	Aldergrove ...	59	48	44	2	2	0·0
19	Birr Castle ...	63	46	34	0·5	1	0·0
20	Valentia Obsy.	62	55	49	0·3	0·4	0·1
	Roches Point	61	51	*	0·5	0·2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h.
Kew...	18	cmc	c	cmbcmr	63	57	54	Tr	2	1·2	*	*	7
Croydon	217	c	ccd$_o$	cbcbr$_o$	63	57	50	Tr	0·5	1·6	*	*	7
Greenwich (Royal Observatory)...	149	c	c	cbcpb	64	57	51	–	0·3	1·1	65	72	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	64	67	53	–	*	*	71	75	*
Regents Pk. (Botanic Gardens)†...	168	*	*	*	*	*	*	*	*	*	*	*	*
Camden Square	110	c	bc	*	63	58	54	–	–	*	*	74	*
Kensington	80	cbc	bcc	*	65	58	54	–	Tr	*	79	81	*
Hampstead Observatory	450										*		*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 20th.

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	13-19h 19th	<0·1	0-5h 20th

FOREIGN OBSERVATIONS.

Stations.	Evening of 19th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 20th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	995·9	WNW	1	rr	35	1002·6	NNE	3	b	36
Lisbon (18h and 07h)	1018·1	ENE	1	z$_o$	82	1019·7	NE	2	z$_o$	63
¶Madrid (18h and 07h)						1008·2	N	1	bc	55
Cairo (Heliopolis) (18h and 06h)						1019·8	E	1	b	59
Toronto (13h and 01h)										
Washington (13h and 01h)						1023·0	NNW	3	bc	69

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
86	61	–	–
	54		–
–	–	–	–
–	–	–	–

¶Pressure at 1,000 dynamic metres level.

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

‡ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

[BRITISH] SECTION Tuesday 21st October 1941.

No. 29188

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1021.2	+6	W	3	c	61	65	8	5	3	-	7-8	9	2500
	Croydon ...	1021.1	+6	WSW	3	c	64	65	7	5	-	-	9+	9+	7000
	S. Farnborough	1021.5	+6	W'N	4	c	61	65	8	5	7	-	Tr	9+	2500
	Boscombe Down	1022.3	+10	W'N	3	d.d.	57	85	7	5	-	-	10	10	1500
	Thorney Island	1022.1	+6	W'S	3	ido	62	85	6	7	-	-	4-6	9+	800
	Lympne ...	1021.7	+6	WSW	2	c	61	85	8	7	-	-	10	10	2000
	Manston ...	1020.8	+8	W'S	3	c	62	65	7	5	-	-	7-8	9+	3000
2	Shoeburyness ...	1020.5	+4	W	3	c	63	65	7	7	-	-	9+	9+	2500
	Felixstowe ...	1019.8	+10	W'N	4	bc	63	65	8	1	6	2	Tr	2-3	2000
	Gorleston ...	1019.7	+10	W	4	bc	61	55	7	1	-	-	4-6	4-6	3000
	Mildenhall ...	1019.9	+10	W	4	c	62	75	8	1	4	5	4-6	7-8	3000
	Cranwell ...	1018.8	+14	W	4	c	59	55	7	2	4	6	2-3	9+	3000
3	Birmingham	1020.5	+10	WSW	3	c	56	55	8	7	1	6	2-3	9+	2500
	Upper Heyford	1020.5	+10	W'S	3	c	58	55	8	1	5	6	2-3	7-8	2500
4	Ross-on-Wye ...	1021.0	+6	W	3	c	57	55	8	1	1	3	1	10	3000
5	Hartland Point	1022.5	+12	WNW	3	c/r	55	85	8	8	4	-	4-6	9	2000
	Bristol	1022.4	+10	WSW	3	c	58	75	7	5	3	-	4-6	9+	5000
	Portland Bill ...	1022.5	+12	W	3	pr	58	85	7	5	-	-	10	10	2500
	Plymouth ...	1022.5	+10	WNW	2	dd	58	97	6	5	2	-	9+	10	400
	The Lizard ...	1023.4	+10	WSW	2	rf	58	97	3	5	-	-	10	10	400
	Scilly (St. Mary's)	1023.2	+12	W	4	c/r	59	97	5	5	-	-	10	10	800
	Guernsey ...														
6	Pembroke ...	1021.6	+10	W	4	c	57	85	8	8	7	-	7-8	9	2500
7	Holyhead (Valley)	1019.4	+14	W	4	c	58	65	8	2	-	8	1	7-8	2000
	Chester (Sealand)	1019.1	+10	WNW	4	c	59	65	8	2	4	6	4-6	7-8	3000
8	Manchester ...	1019.1	+14	W'S	5	c/pr	57	75	8	2	6	6	4-6	7-8	3500
10	Spurn Head ...	1017.8	+4	WSW	5	zo	57	65	6	2	-	-	7-8	7-8	4000
	Catterick ...	1016.2	+24	NW	5	c	57	55	8	2	-	6	2-3	7-8	2000
	Tynemouth ...	1014.0	+24	W	6	bcq	56	65	7	2	-	-	4-6	4-6	3400
11	St. Abbs Head	1011.7	+28	W	7	bcq	53	55	8	4	4	-	2-3	2-3	2500
	Leuchars ...	1010.9	+30	W	7	b	55	55	9	7	-	-	1	1	3500
12	Renfrew (Abbots I.)	1014.5	+22	W	5	bc	56	55	9	8	4	5	4-6	4-6	3500
	Eskdalemuir ...	1014.1	+18	W	5	c	50	75	8	7	-	-	7-8	7-8	2500
	Point of Ayre ...	1017.6	+10	W'N	5	c	57	75	8	2	4	-	4-6	7-8	2000
13A	Tiree	1014.0	+22	NW'W	5	bc	55	65	8	8	3	-	4-6	4-6	2800
13B	Stornoway ...	1009.9	+30	W	5	c/pr	50	86	8	8	7	-	7-8	9+	2000
15	Dalwhinnie ...	1004.8	+40	W	4	PR	43	75	7	5	-	-	10	10	2500
	Aberdeen ...	1001.3	+32	WNW	5	bc	53	55	7	7	-	-	2-3	2-3	2500
	Wick	1006.4	+54	W'S	5	bc/pr	50	75	9	3	6	3	4-6	4-6	2000
16	Sumburgh ...	1000.3	+50	NW'W	7	c	50	75	7	8	-	-	7-8	7-8	2000
17	Blacksod Point...	1018.0	+16	W	3	bc/pr	56	85	8	2	-	-	4-6	4-6	2500
18	Malin Head ...	1015.8	+22	NW	3	c	55	65	8	4	-	4	2-3	7-8	5700
	Aldergrove ...	1017.5	+14	SW'W	3	pr	53	85	8	8	6	8	4-6	9	2800
19	Birr Castle ...	1019.7	+10	SSW	2	c	57	75	8	8	7	-	4-6	9	1500
20	Valentia Obsy. †	1021.7	+8	WSW	3	bc	58	65	9	2	-	3	2-3	4-6	4000
	Roches Point ...	1021.7	+6	W	3	bc	58	75	8	2	4	5	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 20th October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 20th (37)	Weather 13h.–18h. 20th (38)	Weather 18h. 20th to 1h. 21st (39)	Weather 1h.–7h. 21st (40)
London (Kew)	1022.8	+12	NNW	2	zo	57	75	6	5	-	-	9	9	2500	1	•	bcc	ccz	cprocmo	cbccbmw
Croydon	1022.6	+10	SW'W	1	zo	56	85	5	5	-	-	9	9	4000	1	•	ebcc	cczomo	crorome	ccmo
S. Farnborough	1022.9	+14	WSW	2	c	56	85	7	-	7	-	0	9	-	0	•	cbcc	iroc	cdmo	cdomoc
Boscombe Down	1023.3	+8	WSW	2	iro	55	92	7	5	7	-	7-8	10	5700	1	•	c	cdodoc	cirocido	cmo
Thorney Island	1023.3	+8	WNW	1	c	57	92	6	5	7	-	7-8	10	3000	1	*	pirocidmo	coido	coidomo	idirobc
Lympne	1022.9	+12	W	2	iro	57	85	6	5	-	-	10	10	3000	1	§	modiRe	edocmo	irocmo	cmo
Manston	1022.5	+14	W'N	2	zo	58	75	6	5	7	-	9+	10	6000	1	•	ciromoc	ciromo	cirobccmo	cmo
Shoeburyness	1022.1	+12	-	0	c	57	75	7	5	-	-	10	10	5700	0	•	cbc	bcc	cbcmo	cbcmo
Felixstowe	1021.4	+12	WNW	1	c	55	75	7	-	3	-	0	7-8	-	1	2	bbc	bc	bmo,wbcmo	bcmo,wcmo
Gorleston	1020.4	+2	SW	2	b	53	75	6	-	7	-	0	1	-	0	3	bcy	bccybczo	bcbbcmo	bcczo
Mildenhall	1021.6	+10	SW'W	2	zo	52	92	6	-	4	1	0	2-3	-	0	•	bbc	bcbmo	bmobcbw	bccmow
Cranwell	1020.9	+14	WSW	3	bc	50	85	7	8	-	1	2-3	4-6	2800	0	•	b,c	cybc	bcmoc	cmobcw
Birmingham	1021.9	+6	W	2	zo	52	65	6	5	-	1	Tr	1	4000	1	•	bbc	cb	bz	bbcz
Upper Heyford	1022.0	+10	WSW	2	bc	49	75	8	-	4	1	0	4-6	-	1	•	bcbcy	bcycbcb	bbcmo	bcmobc
Ross-on-Wye	1022.0	+8	SW'W	2	bc	53	75	7	5	-	-	4-6	4-6	4000	1	•	bcbbc	ccbc	cbcc	bc
Hartland Point	1023.1	+6	W	2	c	54	92	8	2	2	-	2-3	10	2000	1	4	circ	ciroc	cirocbc	bccbc
Bristol	1023.1	+8	W	3	c/r	56	92	7	5	7	-	1	10	1000	1	•	cproc	ciro	crorobcbbc	cbcmo
Portland Bill	1023.3	+8	W	2	o	58	85	7	5	-	-	10	10	2500	1	4	opr	o	c	c
Plymouth	1022.8	+4	-	0	iro	56	97	5	6	2	-	9	10	600	1	2	cidrddmo	ciromoidm	idroromo	cmobc
The Lizard	1023.9	+8	SW'W	4	c	57	97	6	8	2	-	9	10	1500	1	5	rfifrf	rfomc	rorocpo	cbc
Scilly (St. Mary's)	1023.4	+2	W	4	c	59	97	6	5	7	-	4-6	9+	1000	1	4	crfr	c	odfdfdo	cbc
Guernsey																				
Pembroke	1022.8	+2	W'S	4	pr	56	92	8	8	6	-	4-6	9+	1800	1	3	obcc	cpro	bc	bc
Holyhead (Valley)	1020.2	+6	WSW	4	c	56	75	8	2	6	6	1	9+	2500	0		bcc	bbcc	c bbc	cbc
Chester (Sealand)	1020.4	+10	SW	3	zo	52	75	5	2	-	6	1	4-6	3000	0	•	bcc	cbc	bbmobcw	cprobcmc
Manchester	1019.6	+2	SW'W	2	bc	50	85	8	2	3	1	2-3	4-6	3000	1	•	czobcpro	bc	prbccpro	cprobcmw
Spurn Head	1019.9	+4	WSW	3	zo	55	75	6	2	-	-	2-3	2-3	4000	0	3	cmo	bcmo	mo	bccmo
Catterick	1019.1	+14	W	2	c	52	75	8	5	-	-	9+	9+	2000	1	*	bbccy	bcyc	bcmobmw	bcmoc
Tynemouth	1017.6	+14	W	3	zo	53	75	6	2	3	-	2-3	4-6	3200	1	2	bbcq	bcq	bcmo	bcmo
St. Abbs Head	1014.9	+12	WNW	6	bcq	50	55	8	4	4	-	2-3	2-3	2500	0	3	bcqy	bcqy	bcq	qbc
Leuchars	1015.4	+32	W	3	b	46	85	8	4	-	1	Tr	1	3500	1	•	bby	by	b	b
Renfrew (Abbots I.)	1016.5	+10	W'S	4	b	47	75	8	2	-	1	Tr	1	3500	1	•	bprbc	bcyb	bcprobmb	prombc
Eskdalemuir	1017.0	+20	W	3	bc	47	75	8	5	-	-	4-6	4-6	2500	1	•	bcprobc	bc	bc	bccpro
Point of Ayre	1018.4	+6	WNW	4	c	52	85	8	4	7	-	4-6	9+	2500	1	4	bbcc	PRc	cbcb	bbcc
Tiree	1016.2	+12	W'N	4	bc	49	85	8	8	-	-	4-6	4-6	2500	1	5	bc	bcpr	bcpR	prbc
Stornoway	1013.0	+10	SW	4	c	46	85	7	8	7	-	4-6	9+	2500	1	2	cpr	cph	cPR	cPR
Dalwhinnie	1015.1	+10	W	3	c	43	75	7	5	-	-	9	9	2500	1	•	cpro	cpro		cpr
Aberdeen	1013.6	+24	W	2	b	47	75	7	-	4	-	0	Tr	-	0	2	b	bcb	b	bbc
Wick	1010.2	+18	W	4	bc/pr	43	85	8	3	-	-	2-3	2-3	1400	1	*	cprobcprobc	bcprbcpro	bcprbc	cprobco
Sumburgh	1006.1	+30	WNW	6	c	48	85	8	8	-	-	9	9	2000	1	•	procpro cpr	bccproc	probc	prcprobc
Blacksod Point	1020.3	+12	W'N	2	bc	51	85	8	2	6	-	2-3	4-6	2500	0	2	proc	bc	probc	bc
Malin Head	1017.6	+10	WNW	2	bc	52	75	8	2	3	-	2-3	4-6	5700	0	4	c	bc	bcprobc	c
Aldergrove	1019.5	+12	WSW	1	c	49	92	9	5	3	3	4-6	9	3000	1	•	bc	cpropr	cbfcbw	bwbmoc
Birr Castle	1021.1	+6	SW	1	c	52	75	8	5	-	-	7-8	7-8	4000	1	•	c	c	* .	bbc
Valentia Obsy. †	1023.1	+8	W'N	2	c	55	75	9	2	-	7	1	10	2500	1	2	cbc	bcc	cbcwbc	bcbwcw
Roches Point	1022.7	+10	W	3	c	55	75	8	5	7	5	2-3	7-8	2500	1	4	cbc	c	bc	bwbc

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6: similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

§ 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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

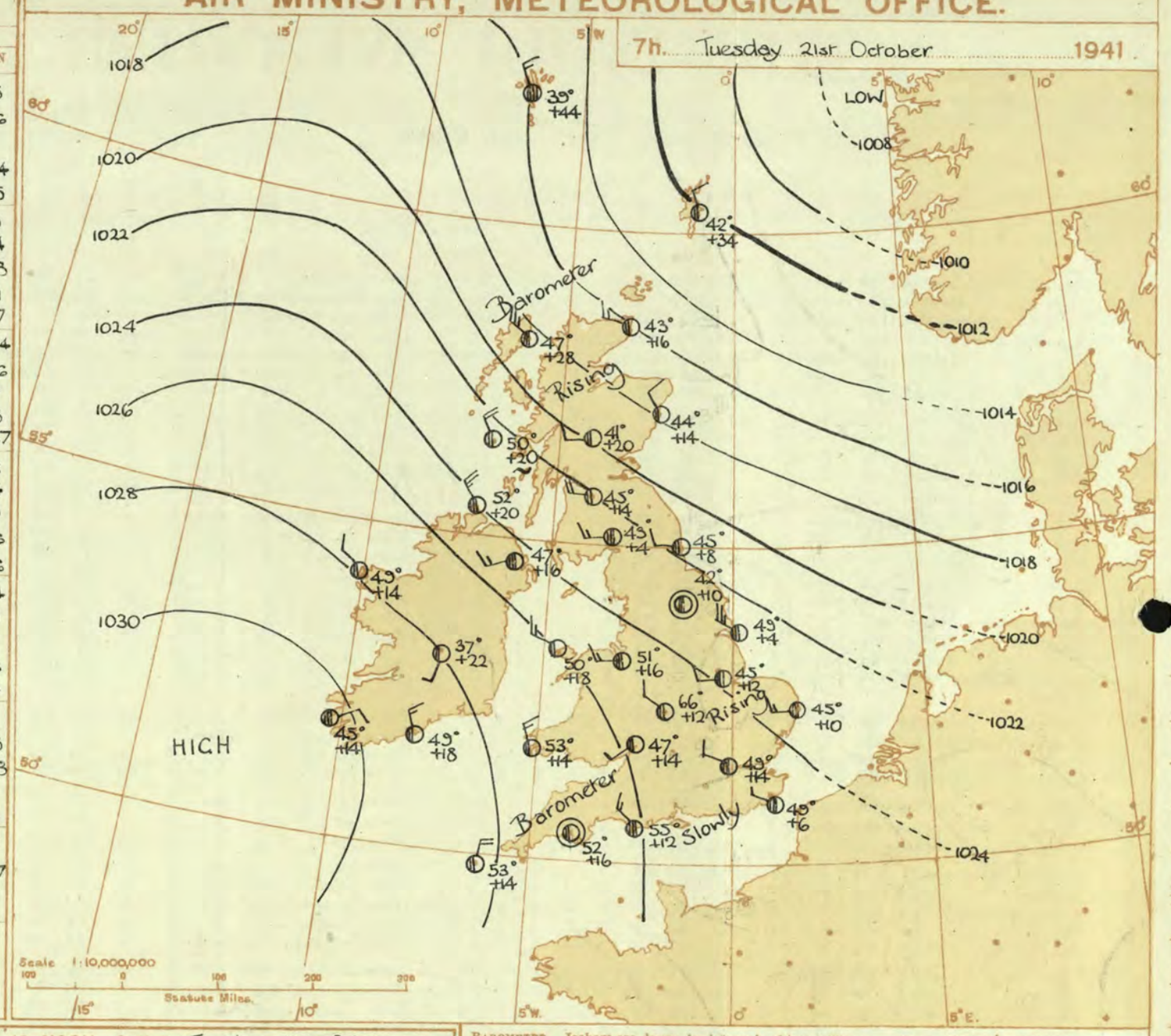
Note.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 20th October $C_L C_M$	$ww V h N_h$	DDFWN	18h. G.M.T. $C_L C_M$	$ww V h N_h$	DDFWN	01h. G.M.T. 21st October $C_L C_M$	$ww V h N_h$	DDFWN	07h. G.M.T. $C_L C_M$	$ww V h N_h$	DDFWN
109	33	10784	25684	30	10845	23385	50	01744	24224	30	10845	25485
115				87	88844	78787	87	02844	28485	57	88444	28486
203							6-	64838	22588			
206	83	81955	57485	8-	01854	26284	8-	81854	55684	86	25854	22884
210	86	02583	54483	80	01853	21483	5-	01864	20414	87	25564	22485
220	80	27854	27684							80	81855	28315
230	80	25954	59485	57	25864	21385	8-	25756	10386	20	25854	24384
245	20	00952	55502	44	00971	23381	50	00863	24213	54	01963	22213
260	80	01763	57403	50	01864	22314	50	00781	20401	50	00781	22301
278	84	01864	21314	87	25751	23286	5-	00851	22361	86	10855	24487
279	26	02854	55515	46	02853	22385	50	00862	22382	80	25854	22384
285	23	01833	24014							21	61744	24666
288	10	00841	58604	46	01854	22214	50	05653	10113	07	01800	18214
575	9-	81747	57486				03	00830	24303	57	02753	26885
301	26	02754	23526	84	02763	23415	40	00741	24281	20	02852	26427
321	83	05655	26426	54	05651	23213	5-	81656	22216	57	08464	21116
299	80	01753	22414	50	01753	22313	50	05353	22203	5-	01744	24204
292	8-	02955	22416	40	01854	22314	40	00762	21182	07	02890	21215
310	--	01645	24515	--	01643	24413				--	08436	24416
614	23	02754	26328	24	08454	22114	50	08468	22323	57	05563	24226
333	2-	02852	24417	8-	01854	20314	5-	01754	25214	2-	01844	26414
334	--	02645	24316	--	02745	28316				--	02544	28215
340	10	02954	26316	06	01890	24213	04	01890	20213	70	01851	26115
136	10	01753	23515	10	01664	20224	04	05690	25311	03	05650	27416
330	51	01762	24415							54	01752	28314
350	17	01853	24413	24	00780	00012	07	05690	22214			
368				57	62646	24268	50	02653	26118	54	05641	26213
379	17	02852	24416	53	01763	22213	00	05590	26300	50	01753	26103
390	73	01753	26415	5-	05666	26120	5-	05578	24118	03	05690	26114
382	17	02752	25416	07	01690	24124	50	01664	23124	04	01780	00014
438										5-	02757	29317
430	73	02754	22425	57	05667	24168	5-	51645	24228	53	05661	26227
409	52	62756	00068	5-	51418	20348	5-	51547	22157	54	01852	30315

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



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 21st October
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light or moderate northwest or west wind. Fair with considerable bright periods; much fog around dawn: mild.
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	Moderate northwest to west wind. Local showers at first, mostly on our northwest seaboard. Bright intervals; rather mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate west wind, backing southwest or south. Fair; mild.

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

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

GENERAL INFERENCE.

An anticyclone centred to the southwest of Ireland is spreading east. There will be be local showers at first, mostly on our northwest seaboard, and considerable fog around dawn in southern districts. Weather will otherwise be fair with temperatures generally above the seasonal average.

FURTHER OUTLOOK.

Continuing fair over most of the British Isles, but some rain probable in Western Ireland.

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. 6.269/4120. No.8176. D. 6934. 6p. 946. 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.)

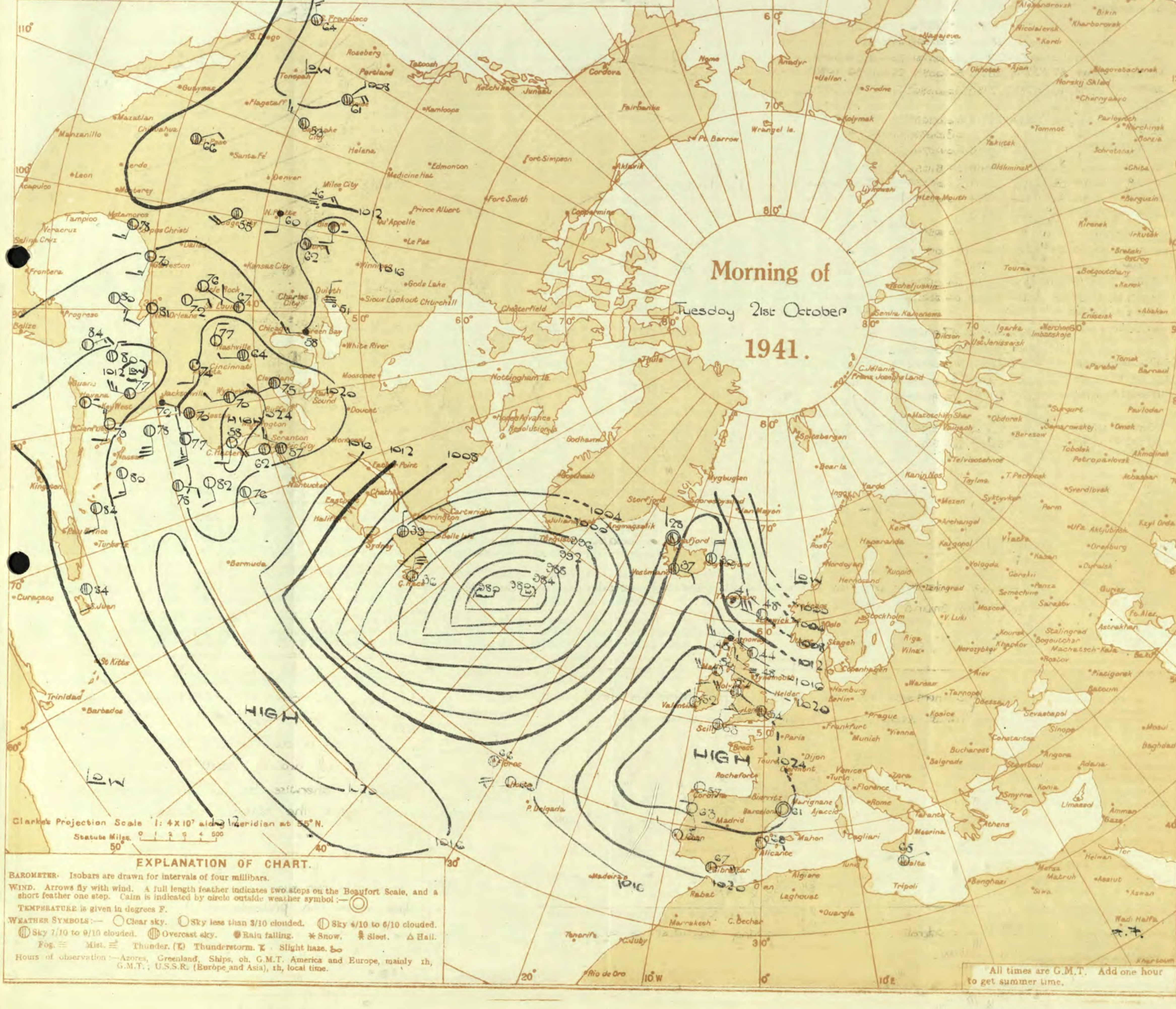
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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. T Slight haze. ∞

Hours of observation :—Azores, Greenland, Ships, 0h, G.M.T. America and Europe, mainly 1h, G.M.T. ; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 21st October 1941.

No 29,188.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1023·4	0	WSW	2	c	54	92	7	5	7	-	7-8	10	5000
	S. Farnborough	226	1023·8	+2	N	2	c/d	54	92	6	5	-	-	10	10	2800
	Boscombe Down	417	1024·1	+6	NW'W	2	c/r	52	97	6	5	-	-	7-8	7-8	2600
	Thorney Island	10	1023·9	-2	N'W	2	id.	56	92	4	5	2	-	9+	10	2300
	Lympne ...	346	1023·7	0	-	0	c	51	97	6	5	-	-	7-8	7-8	5000
	Manston ...	154	1023·6	+2	W	2	Zo	52	92	6	5	-	-	9	9	5500
2	Shoeburyness ...	11	1023·2	+2	WSW	2	c	54	92	6	5	-	-	9	9	4000
	Felixstowe ...	15	1022·1	0	WSW	3	Zo	51	85	6	-	3	-	0	2-3	-
	Gorleston ...	5	1021·7	+4	WSW	2	No	48	85	6	-	7	-	0	4-6	-
	Mildenhall ...	19	1022·4	+2	SW'W	2	No	46	97	6	-	7	-	0	4-6	-
	Cranwell ...	240	1021·9	+2	W'S	2	Zo	47	85	6	5	-	-	4-6	4-6	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1023·9	+12	WSW	1	Zo	47	97	6	5	4	2	2-3	2-3	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024·7	+12	WNW	3	bc	55	92	8	2	-	-	4-6	4-6	1500
	Bristol ...	209	1024·4	+2	SW	1	c	53	97	5	5	-	-	9+	9+	1200
	Portland Bill ...	32	1023·1	-2	W	3	c	57	85	7	5	-	-	10	10	2500
	Plymouth ...	82	1024·3	+10	W	1	c/r	55	97	6	5	-	-	9	9	1000
	The Lizard ...	240	1025·0	+8	N	2	c	55	97	7	8	2	-	7-8	9+	1500
	Scilly (St.Mary's)	163	1025·6	+10	N'E	2	c/d	55	97	7	5	2	-	4-6	9+	1000
	Guernsey ...	175														
6	Pembroke ...	142	1024·8	+12	NW'N	4	bc	56	75	8	7	-	-	4-6	4-6	2500
7	Holyhead(Valley)	26	1022·8	+12	W'N	4	c	52	85	7	-	4	7	0	9	-
	Chester(Sealand)	16	1022·4	+10	W'S	2	bc	52	85	7	5	-	-	4-6	4-6	3000
8	Manchester ...	235	1022·2	+6	SW	2	pr	49	92	7	8	-	-	7-8	7-8	2000
10	Spurn Head ...	29	1020·5	0	W	1	c	51	85	6	2	4	-	4-6	7-8	4000
	Catterick ...	175	1021·0	+6	WNW	1	Zo	42	92	6	-	-	-	0	0	-
	Tynemouth ...	108	1019·3	+6	NW	3	Zo	48	85	6	2	4	-	2-3	4-6	2500
11	St. Abbs Head	280	1017·6	+10	WNW	6	bc/c	47	65	8	4	4	-	1	2-3	2500
	Leuchars ...	36	1017·4	+10	W	3	b	41	92	7	5	-	-	Tr	Tr	3500
12	Renfrew (Abbotsl.)	19	1019·8	+18	SW'S	3	b	46	85	7	5	-	-	Tr	Tr	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1021·4	+10	NW'W	4	b	51	85	8	4	-	-	Tr	Tr	2500
13A	Tiree	22	1019·0	+12	W'N	4	bc/pr	49	85	8	8	-	-	4-6	4-6	1800
13B	Stornoway ...	80	1015·8	+6	W	5	PR	45	97	6	5	7	-	7-8	9+	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1013·0	+10	WNW	4	bc	44	85	8	3	-	-	2-3	2-3	1600
16	Sumburgh ...	30	1008·4	+10	WNW	6	bc	48	75	8	8	-	-	2-3	2-3	2500
17	Blacksod Point	18	1024·5	+18	W'N	4	bc/pr	50	85	8	2	-	-	4-6	4-6	2500
18	Malin Head ...	84	1020·9	+14	W	4	bc/pr	50	75	8	9	-	-	4-6	4-6	2500
	Aldergrove ...	268	1022·7	+14	SW'W	2	b	45	97	7	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1027·1	+16	NNW	1	bc	52	85	9	1	-	3	2-3	4-6	2500
	Roches Point	22	1025·9	+10	NW'W	4	bc	49	85	8	5	-	-	4-6	4-6	2500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Cloud. Height of Base (feet). (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1025·4	+10	WNW	2	Zo	50	85	6	5	-	6	4-6	7-8	2500	1	*
	Croydon ...	1025·3	+14	WNW	2	Nc	49	97	6	5	7	2	Tr	7-8	1200	1	*
	S. Farnborough	1025·7	+14	WNW	1	c	49	97	7	-	3	4	0	9	-	1	*
	Boscombe Down	1026·6	+16	WNW	2	c/r	47	97	6	-	4	2	0	9	-	1	*
	Thorney Island	1025·7	+14	WNW	2	c/r	51	97	7	-	6	2	0	7-8	-	0	*
	Lympne ...	1024·4	+6	WNW	1	Nc	49	97	5	5	-	-	9	9	5000	1	3
	Manston ...	1024·3	+8	NW	3	Nc	53	85	6	5	3	1	7-8	9+	6500	0	*
2	Shoeburyness ...	1024·4	+8	NW'W	3	c	50	85	6	-	9	-	0	7-8	-	0	*
	Felixstowe ...	1023·1	+6	W'N	4	Zo	48	92	6	-	7	-	0	7-8	-	1	2
	Gorleston ...	1022·9	+10	W	3	Nc	45	85	6	5	4	-	4-6	9+	1500	0	2
	Mildenhall ...	1024·0	+12	W'S	3	Nc	44	97	6	-	7	-	0	7-8	-	0	*
	Cranwell ...	1023·6	+12	W	2	Zo	45	92	5	5	-	-	7-8	7-8	3500	1	*
3	Birmingham ...	1025·4	+12	WNW	2	Zo	46	92	5	5	7	-	1	4-6	4000	1	*
	Upper Heyford	1025·3	+14	WNW	2	bc	46	92	8	-	7	2	0	4-6	-	1	*
4	Ross-on-Wye	1026·0	+14	SW	1	bc	47	85	8	5	-	2	Tr	4-6	3000	1	*
5	Hartland Point	1027·5	+16	NW	3	bc	54	75	8	2	-	5	4-6	4-6	2000	1	3
	Bristol ...	1027·0	+18	W	1	Zo	46	97	6	1	7	1	Tr	4-6	2500	1	*
	Portland Bill ...	1025·6	+12	NW	3	c	55	92	7	2	4	-	4-6	7-8	4000	0	4
	Plymouth ...	1027·1	+16	-	0	bc	52	97	7	5	-	-	1	4-6	2500	1	1
	The Lizard ...	1027·8	+12	NNW	2	bc	50	92	8	7	4	-	4-6	4-6	2500	1	3
	Scilly (St.Mary's)	1028·3	+14	N'E	4	bc	53	85	8	9	4	4	1	4-6	1500	1	4
	Guernsey ...																
6	Pembroke ...	1027·3	+14	NNW	3	bc	53	92	8	8	4	-	4-6	4-6	2500	1	3
7	Holyhead(Valley)	1026·3	+18	WNW	3	bc	50	85	8	2	-	2	Tr	4-6	2000	0	2
	Chester(Sealand)	1025·2	+16	W	3	c	51	85	7	2	7	1	4-6	7-8	2000	1	*
8	Manchester ...	1024·8	+12	W'N	2	Zo	45	97	6	2	4	-	2-3	9	2500	1	*
10	Spurn Head ...	1022·7	+4	WNW	5	Zo	49	92	5	5	-	-	7-8	7-8	4000	1	4
	Catterick ...	1022·8	+10	-	0	c	42	92	7	-	7	-	0	7-8	-	0	*
	Tynemouth ...	1021·7	+8	W	2	Zo	45	92	5	2	4	1	2-3	4-6	2500	1	2
11	St. Abbs Head	1018·6	+4	WNW	6	bc	45	85	8	4	4	-	2-3	4-6	2500	0	3
	Leuchars ...	1019·9	+20	W	2	b	40	97	8	5	-	-	1	1	3500	0	*
12	Renfrew (Abbotsl.)	1021·7	+14	W	4	bc	45	85	8	8	-	-	2-3	2-3	2000	1	*
	Eskdalemuir ...	1021·6	+4	W	3	c/pr	43	85	8	5	2	-	4-6	9+	1500	1	*
	Point of Ayre...	1024·0	+14	NW'W	6	c	51	85	8	2	7	-	1	9+	2500	1	4
13A	Tiree	1022·2	+20	NNW	4	bc	50	75	8	8	-	-	2-3	2-3	2500	0	5
13B	Stornoway ...	1019·4	+28	WNW	5	c/pr	47	92	8	5	7	-	7-8	9+	2000	1	3
15	Dalwhinnie ...	1019·8	+20	W	2	bc	41	85	7	8	4	-	4-6	4-6	2500	1	*
	Aberdeen ...	1017·7	+14	NW	2	bc	44	85	8	5	4	-	4-6	4-6	2400	0	2
	Wick ...	1015·7	+16	W'N	3	bc	43	85	9	3	6	-	4-6	4-6	1800	1	*
16	Sumburgh ...	1012·5	+34	NNW	2	bc/pr	42	97	8	8	-	-	4-6	4-6	1500	1	4
17	Blacksod Point	1028·0	+14	NW'W	2	bc	49	85	8	2	-	-	2-3	2-3	4000	0	2
18	Malin Head ...	1024·3	+20	NW	5	c	52	75	8	2	-	1	4-6	7-8	4000	0	4
	Aldergrove ...	1025·9	+16	W'S	3	c	47	85	8	1	7	6	Tr	9+	3000	1	*
19	Birr Castle ...	1028·7	+22	SSW	1	bc	37	97	8	-	4	-	0	2-3	-	1	*
20	Valentia Obsy.	1030·0	+14	NE'E	2	c	46	92	9	1	-	2	2-3	7-8	2500	1	2
	Roches Point	1029·3	+18	NNW	3	bc	49	92	8	-	-	5	0	2-3	-	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 20th Hrs. (36)
1	London (Kew)	61	48	43	-	Tr	1·9
	Croydon ...	64	49	43	-	0·1	2·2
	S. Farnborough	62	49	43	Tr	Tr	1·1
	Boscombe Down	60	47	42	0·5	1	0·2
	Thorney Island	62	50	44	Tr	Tr	*
	Lympne ...	63	49	43	2	0·1	0·0
	Manston ...	63	49	45	1	Tr	1·0
2	Shoeburyness ...	65	49	38	-	-	2·7
	Felixstowe ...	63	47	41	-	-	6·5
	Gorleston ...	61	44	*	-	-	*
	Mildenhall ...	63	43	35	-	Tr	6·8
	Cranwell ...	59	44	42	-	-	6·3
3	Birmingham ...	58	45	39	-	-	5·8
	Upper Heyford	60	45	40	-	-	*
4	Ross-on-Wye	61	47	38	-	-	4·5
5	Hartland Point	57	52	51	2	0·2	0·1
	Bristol ...	61	46	39	Tr	1	1·0
	Portland Bill ...	60	53	*	1	-	*
	Plymouth ...	60	51	45	4	2	0·0
	The Lizard ...	59	50	*	2	1	0·1
	Scilly (St.Mary's)	61	52	*	4	0·3	0·4
	Guernsey ...						
6	Pembroke ...	58	52	*	1	Tr	1·4
7	Holyhead(Valley)	59	48	43	-	-	*
	Chester(Sealand)	59	50	41	-	0·3	7·6
8	Manchester ...	58	43	39	Tr	0·3	*
10	Spurn Head ...	58	33	*	-	Tr	5·0
	Catterick ...	61	40	29	-	Tr	8·0
	Tynemouth ...	57	44	39	-	-	*
11	St. Abbs Head	53	45	*	-	-	*
	Leuchars ...	55	36	*	-	-	9·2
12	Renfrew (Abbotsl.)	56	44	33	0·6	1	8·4
	Eskdalemuir ...	53	36	30	0·2	0·3	6·2
	Point of Ayre...	58	50	*	3	-	4·3
13A	Tiree	56	47	*	3	4	3·6
13B	Stornoway ...	53	44	*	2	4	4·3
15	Dalwhinnie ...	43	39	35	6	2	3·3
	Aberdeen ...	59	40	33	-	-	8·0
	Wick ...	51	41	38	2	5	*
16	Sumburgh ...	51	41	37	0·3	2	4·6
17	Blacksod Point	57	48	*	1	0·2	*
18	Malin Head ...	56	45	*	-	0·4	8·0
	Aldergrove ...	55	43	31	1	Tr	1·6
19	Birr Castle ...	58	36	33	-	-	2·8
20	Valentia Obsy.	59	45	41	-	-	4·5
	Roches Point	60	46	*	-	7	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW	18	bcc	ccZo	drzcmW	61	48	43	-	Tr	1·9	*	*	6
CROYDON	217	cbcc	ccZmo	drrmoc	64	49	43	-	0·1	2·2	*	*	6
GREENWICH (Royal Observatory)...	149	bcy	cy	drrcwc	63	50	41	-	Tr	3·0	57	77	6
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	63	50	48	—			64	79	*
REGENTS PK. (Botanic Gardens)‡...	168	*	*	*	62	49	45	-	Tr		72	74	*
CAMDEN SQUARE	110	bc	c	*	62	49	44	-	Tr		*	78	*
KENSINGTON	80	bc	bc	*	63	49	43	-	0·2		67	81	*
HAMPSTEAD OBSERVATORY	450	bc	bc	bc	62	46	40	-	-		*	85	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 21st

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·2	17-20h 20th	<0·1	9-2h 21st

FOREIGN OBSERVATIONS.

Stations.	Evening of 20th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 21st October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	1010·0	NE	2	bc	33	1013·2	ESE	1	c	35
Lisbon (18h and 07h)	1019·8	NNW	4	Zo	52	1021·6	NE	3	bc	59
¶Madrid (18h and 07h)						1009·0	-	0	b	55
Cairo (Heliopolis) (18h and 06h)	1016·6	N'W	1	b	72	1017·9	W'S	2	pr	65
Toronto (13h and 01h)	1028·5	ESE	2	o	43					
Washington (13h and 01h)										

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
*	*	*	*
84	59	-	-
	54		-
79	62	-	Tr
-		-	

¶Pressure at 1,000 dynamic metres level.

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Wednesday 22nd October 1941.

No. 29189

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1027·9	+8	NW'N	3	bc	57	55	8	8	-	-	4-6	4-6	2500
	Croydon	1027·4	+6	WNW	3	bc	59	55	8	2	-	-	4-6	4-6	2600
	S. Farnborough	1028·1	+2	NW'N	3	c	59	55	9	1	-	2	4-6	7-8	3000
	Boscombe Down	1028·7	+6	NNW	4	bc	56	55	8	1	-	1	2-3	4-6	3000
	Thorney Island	1028·1	+6	NNW	3	bc	59	65	8	1	-	1	2-3	4-6	2500
	Lympne	1026·8	+4	NNW	4	bc	56	65	8	1	-	-	4-6	4-6	2500
	Manston	1026·5	+6	NW'N	4	b	57	65	7	1	-	1	Tr	Tr	2500
2	Shoeburyness	1026·6	+6	NW	4	bc	59	55	8	1	-	1	2-3	2-3	3500
	Felixstowe	1025·1	+2	WNW	4	b	58	65	8	1	4	-	1	1	4000
	Gorleston	1025·1	+2	NW'W	4	bc	58	55	7	1	-	8	2-3	2-3	1200
	Mildenhall	1026·4	+4	WNW	4	bc	57	75	7	1	-	2	4-6	4-6	4000
	Cranwell	1025·9	+6	NW'W	4	z_o	56	65	6	2	-	-	4-6	4-6	2500
3	Birmingham	1028·6	+10	NW'W	4	bc	54	65	8	7	-	-	4-6	4-6	2500
	Upper Heyford	1027·9	+8	WNW	4	bc	56	65	8	1	-	5	4-6	4-6	2500
4	Ross-on-Wye	1028·6	+10	NW	3	bc	57	55	9	1	-	1	2-3	2-3	4000
5	Hartland Point	1030·7	+14	N	2	c	54	75	9	1	-	6	2-3	7-8	2000
	Bristol	1029·9	+6	NNW	3	bc	57	65	9	1	-	2	4-6	4-6	3500
	Portland Bill	1028·7	+8	NW	3	c	59	75	8	1	4	-	4-6	7-8	4000
	Plymouth	1030·5	+18	N	2	bc	60	65	8	1	-	1	2-3	4-6	2500
	The Lizard	1030·3	+6	N	3	bc	59	75	8	7	6	-	4-6	4-6	3500
	Scilly (St. Mary's)	1031·1	+6	NE	3	c	59	75	8	1	4	1	2-3	7-8	2500
	Guernsey														
6	Pembroke	1031·2	+8	N'W	4	bc	56	75	8	2	4	2	2-3	4-6	3000
7	Holyhead (Valley)	1029·5	+12	WNW	4	bc	56	65	8	2	-	1	1	2-3	2500
	Chester (Sealand)	1028·5	+16	WNW	5	bc	55	75	8	8	-	-	4-6	4-6	2500
8	Manchester	1027·7	+10	WNW	5	bc	54	65	8	2	-	-	4-6	4-6	3000
10	Spurn Head	1024·6	+10	WNW	6	cq	55	65	7	1	-	-	7-8	7-8	4000
	Catterick	1026·6	+14	NNW	4	bc	55	55	8	2	-	1	2-3	4-6	2500
	Tynemouth	1024·7	+28	WNW	4	bc	54	55	8	2	-	-	4-6	4-6	3400
11	St. Abbs Head	1023·8	+28	WNW	5	c	51	65	9	8	4	-	4-6	7-8	3000
	Leuchars	1024·4	+24	NW	4	b	54	55	9	1	-	-	1	1	4000
12	Renfrew (Abbotsl.)	1026·5	+18	WNW	4	b	52	65	9	3	-	-	1	1	2500
	Eskdalemuir	1025·6	+10	NW'W	4	bc	51	65	8	7	-	-	4-6	4-6	4000
	Point of Ayre	1028·1	+18	NW'N	5	c	54	75	8	8	-	-	7-8	7-8	3500
13A	Tiree	1027·3	+18	NNW	3	bc	53	75	8	2	-	-	4-6	4-6	3500
13B	Stornoway	1025·4	+4	WNW	4	c	51	75	8	5	4	-	4-6	9+	2500
15	Dalwhinnie	1025·5	+34	NW	2	bc	47	55	8	1	-	-	2-3	2-3	2500
	Aberdeen	1023·2	+40	NW	5	bc/pr	51	65	8	3	-	-	4-6	4-6	1800
	Wick	1023·3	+40	NW	4	c	48	75	9	2	6	-	7-8	7-8	2500
16	Sumburgh	1020·1	+38	NNW	4	c	45	65	8	8	-	-	9+	9+	2000
17	Blacksod Point	1031·2	+10	W'N	2	c	57	65	8	-	-	7	0	7-8	-
18	Malin Head	1028·3	+16	NW	4	pr	53	75	8	9	-	-	7-8	7-8	4000
	Aldergrove	1029·7	+18	WNW	3	bejp	53	85	8	8	6	3	2-3	4-6	2500
19	Birr Castle	1031·6	+10	WNW	2	c	57	65	8	2	-	6	2-3	9	2500
20	Valentia Obsy. †	1032·7	+14	SE'E	1	c	58	65	9	1	-	2	4-6	9+	2500
	Roches Point	1032·0	+8	N	2	bc	57	75	8	1	-	5	1	4-6	4000

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

District	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	1030·3	+16	WNW	2	m	52	75	4	-	-	1	0	2-3	-	1	*
	1029·4	+10	WNW	2	m	51	75	4	-	2	4	0	2-3	-	1	*
	1030·9	+24	WNW	1	be	49	75	8	-	-	5	0	2-3	-	1	*
	1031·1	+18	NNW	3	be	51	75	8	-	-	2	0	9-6	-	0	*
	1030·7	+10	NNW	1	c	51	75	7	5	-	2	Tr	9	4000	0	*
	1029·4	+18	-	0	be	46	85	6	-	-	2	0	2-3	-	1	§2
	1029·0	+14	NW	2	z_o	53	75	6	-	-	5	0	1	.	0	*
2	1029·4	+18	NW	2	b	50	75	7	-	-	-	0	0	-	0	*
	1027·6	+18	WNW	3	bc	53	75	7	1	-	1	2-3	2-3	4000	1	3
	1027·1	+12	NW'W	2	be	50	65	6	8	-	-	4-6	4-6	1500	0	2
	1029·0	+18	W'N	2	z_o	48	97	6	1	-	-	1	1	4000	0	*
	1028·9	+20	NW	4	z_o	50	65	6	5	4	-	1	2-3	2000	0	*
3	1031·0	+14	WNW	3	z_o	50	75	5	5	-	1	Tr	4-6	4000	1	*
	1030·6	+20	NW'W	2	bc	48	75	7	-	-	5	0	2-3	-	1	*
4	1030·9	+16	NW	1	bc	50	75	9	4	-	2	Tr	2-3	3000	1	*
5	1032·0	+12	N	3	be	54	75	9	1	-	5	4-6	4-6	2500	0	3
	1031·2	+14	NW	2	c	49	75	5	4	-	2	Tr	7-8	3500	1	*
	1030·5	+10	NNW	3	c	56	85	8	5	7	-	4-6	7-8	4000	0	3
	1031·3	+14	N'W	3	be	52	85	8	1	-	6	Tr	2-3	3000	0	2
	1032·0	+12	N	3	be	53	85	8	8	4	-	4-6	4-6	2500	0	2
	1032·3	+10	NE	3	be	53	75	8	1	4	5	2-3	4-6	1800	1	3
6	1033·0	+14	N	3	bc	50	85	8	7	4	-	2-3	4-6	3500	1	1
7	1031·4	+12	WNW	2	c	51	85	8	8	6	6	4-6	9	3000	0	2
	1031·2	+16	W	3	c	52	85	8	8	-	5	4-6	7-8	3000	1	*
8	1030·3	+18	W'N	2	bc	48	85	6	5	-	9	4-6	4-6	3000	1	*
10	1027·4	+10	NW'W	4	be	52	75	7	2	-	-	2-3	2-3	4000	0	4
	1029·0	+24	NW'W	2	b	49	65	8	5	-	1	Tr	Tr	2500	1	*
	1028·1	+20	NW	3	be	50	65	6	2	-	-	2-3	2-3	4000	1	3
11	1026·8	+4	NW	4	bc	50	65	9	4	4	-	2-3	4-6	3000	0	3
	1027·6	+20	SSE	1	b	47	65	9	4	-	8	Tr	1	4000	0	*
12	1029·6	+16	W'S	2	b	46	75	8	4	-	9	Tr	1	2000	1	*
	1029·4	+16	NNW	1	be	41	85	8	5	-	-	2-3	2-3	4000	1	*
	1030·1	+10	N'W	3	c/pr	51	75	8	9	4	-	2-3	9	3500	1	3
13A	1029·1	+14	NW'N	2	be	51	75	8	2	-	-	4-6	4-6	3500	0	3
13B	1027·4	+6	SW	3	c	48	92	8	2	4	5	2-3	7-8	3000	1	2
15	1028·8	+12	-	0	be	42	65	8	1	8	-	2-3	2-3	2500	1	*
	1027·5	+24	S'W	2	b	45	85	6	8	-	-	1	1	2900	1	2
	1026·6	+18	W	2	pr	43	85	9	2	-	1	9	9	1000	1	*
16	1023·6	+18	NW	4	c	44	65	8	5	-	-	7-8	7-8	2500	1	4
17	1031·3	+10	W'N	2	c	54	75	8	2	6	-	2-3	7-8	2500	0	2
18	1030·4	+14	NW	1	c	50	92	7	4	6	-	4-6	7-8	2500	0	4
	1031·1	+10	WSW	2	c	50	92	8	5	3	2	7-8	9+	3000	1	*
19	1032·5	+2	WNW	1	be	47	92	8	-	4	-	0	2-3	-	1	*
20	1033·6	+10	S'W	1	bc	49	85	9	5	3	2	1	4-6	4000	1	3
	1033·1	+10	ENE	1	be	50	75	8	5	-	5	1	4-6	2500	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 21st (37)	Weather. 13h.–18h. 21st. (38)	Weather. 18h. 21st to 1h. 22nd (39)	Weather. 1h.–7h. 22nd (40)
cm·wbcy	bcz·ybmw	$bm_o w$	bbccpr$_o$
cm·bc	bcybcm$_o$	bmw	bwfgc
cbcc	cb	$bm_o w$	$bm_o wc$
cmofgbc	bc	bcb$m_o w$	bm_o·f
bcwbc	bcbew	cwb	bm_obcp
cm·bc	bcbm·	bcm_o	$bcmc_i j$
bbcmob	bbcbz·	$bz_o m_o$	$bm_o m_o$
bcmobc	bcybcy$_q$	$bm_o w$	$bm_o m_o$
cmoz·b	bc	$bm_o w$	$bm_o wcm_o$
bcmobc	bcbmo	bm_obmw	ombcm$_o$w
bbcz$_o$	b·bz·	$bm_o w$	$cm_o pr_o$bf
bc	bc		bcb
bc	bbcybc	bcbm_o	$cbm_o c$
bc	bcv	bbw	bwbcc
bcc	cbc	bcb	bbc
cbc	bcz$_o$	$bm_o bm_o$	bbcb$m_o w$
c	c	bc	bcc
bcc	bc	bcb$m_o w$	$bm_o w$
bc	bc	bcbw	bbcw
bcc	cbc	bcb	b
bc	bcy	bc	bcw
beb	bbcc	c	bcb$m_o$bc
cprbc	bcc	cPRm_oc	bcm_o
bcz$_o$	bcm·	cp	bFcF
bccq	bc	b	bm_o
bbcy	bcyb	bm_o	bm_owbcp
bcm·	bc	b	bbc
bcc	bc	cbcb	bc
bby	bbcyb	bbx	bxbbc
bcprb	b	bbcm_ob	b,c,bcw
cbc	bcv	bcb	bbc
bcc	bccpr	pr$_o$c	bbxbcc
bc	bc	bc	bcc
c	c	cpr	c
cbc	bc		cbc
bbcprc	bcph·bc		cbctmrbc
bcprc	cbccpr	cprbccprm	cprbc
pr·	c	b,cpr$_o$	PRm_oPR
bc	bc	bc	bbc
cpr·c	c	bcbccbc	bc
bcpr·	pr·jpc	bwb$m_o w$	fgwfbm
bcc	cbbc	*	bbcx
cwc	cbcvbc	bcbw	bwbcw
bc	bc	bw	bwbcw

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

† See disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually 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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

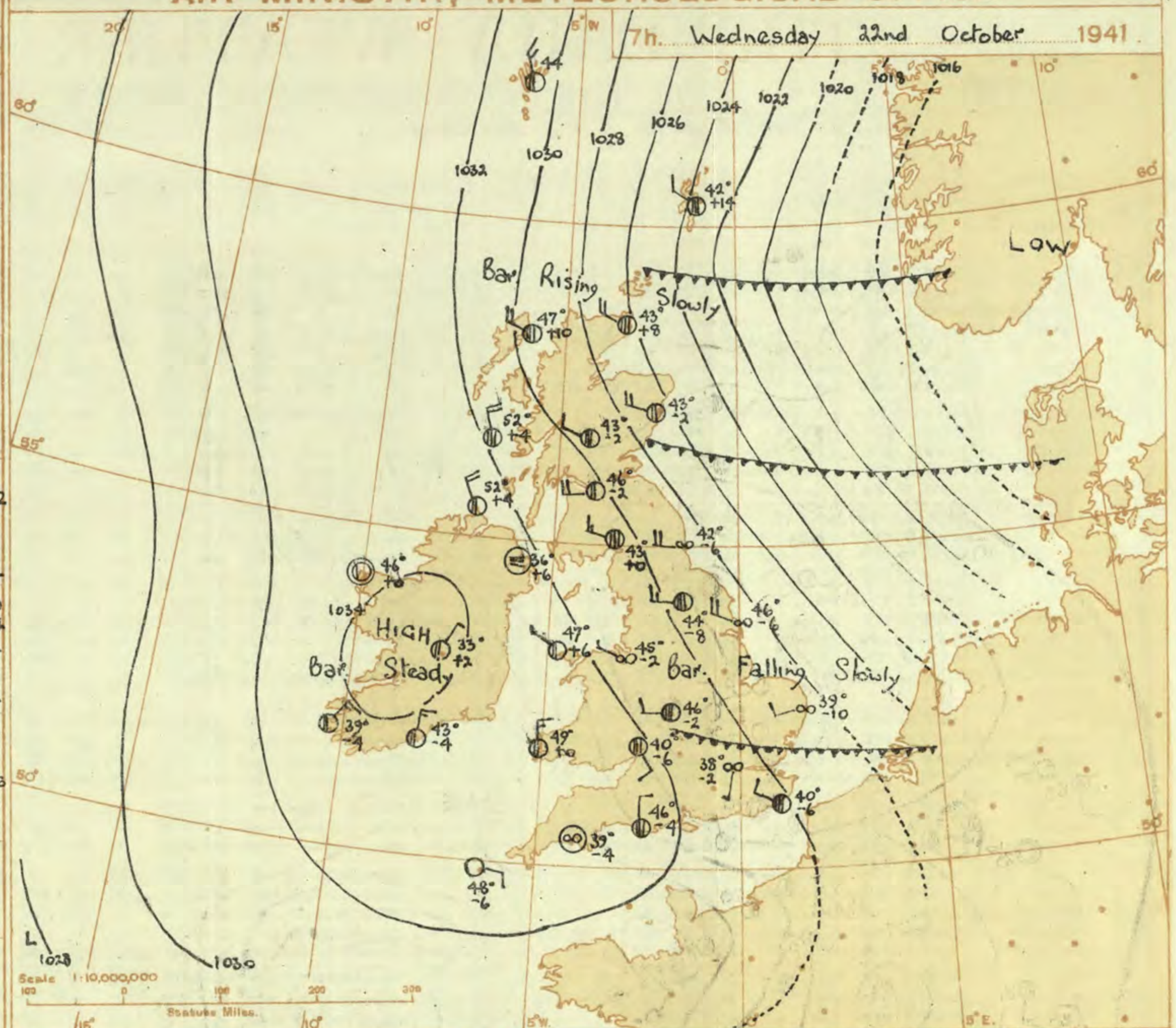
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 21st October			18h. G.M.T.			01h. G.M.T. 22nd October			07h. G.M.T.		
III	C_L C_M	wwVhN_h	DDFWN	C_L C_M	wwVhN_h	DDFWN	C_L C_M	wwVhN_h	DDFWN	C_L C_M	wwVhN_h	DDFWN
109	20	01854	28584	50	00853	26313	8-	25786	27486	90	25744	28684
115	57	10944	28385				54	81844	28486	57	88844	61687
203							50	00943	24403	37	02935	28528
206	86	01954	26214	80	00862	31222	80	01963	26413	96	81844	26386
210	2-	28954	51484	20	00953	24113	40	25053	22383	8-	01954	59585
220				80	01853	27104						
230	84	01953	24383	24	01853	24213	8-	81747	26187	83	02853	28287
245	26	01964	28514	40	00961	24101	50	00961	26201	54	25865	30286
260	70	01954	27314	40	17961	22101	50	08461	23101	55	05662	22215
278	26	01953	28514	9-	10847	30487	84	25842	26382	83	01843	26386
279	86	02965	28415	03	02890	26215	00	00890	00000	53	02852	25107
285	20	02853	26613	14	01853	32414				23	01634	28315
288	10	01954	26514	10	05623	24213	00	05690	18100	54	02875	22215
575				44	25743	31651	00	05690	00010			
301	80	01854	26214	24	01853	29414	2-	25754	24384	26	05553	28185
321	20	00753	58513	20	05553	26313	50	05563	24203			
299	20	01744	26314	5-	01744	24414	00	00790	20200	5-	01752	24202
292	20	01964	27514	44	01963	27213	40	00861	00001	07	01890	21103
310	--	01644	24414	--	01643	24413				--	01634	26315
614	8-	01954	28324	00	05690	28103	5-	05567	24127	04	08490	24104
333	1-	01953	26413	2-	01852	24115	88	02755	26223	8-	01843	26213
334	--	02744	28215	--	01863	28314				--	08572	00004
340	20	01964	26414	06	02890	27315	04	00890	08113	20	01944	25284
136	10	05653	26415	20	01852	28313	00	05690	24100	5-	43257	21147
336	14	01762	28414	14	01761	28813				54	01763	20314
350	20	05654	26414	00	02690	26303	00	05590	24100	5-	22665	18265
368	10	01954	28214	50	01851	26124	00	00790	26100			
379	10	01854	28314	00	01890	28214	00	05690	28100	5-	02766	24226
390	20	01764	26414	00	05690	26312	00	05590	26100	5-	63448	24228
382	10	01863	29413	04	01890	28214	00	05690	00002	50	02765	26125
438	80	01764	28314							57	05653	32414
430				00	01790	28203	00	05690	27101			
409	10	01854	32314	10	01953	01113	00	00790	04210	00	00890	05590

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



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 22nd October 1941
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate northwest wind, veering north to northeast; short periods of rain and local showers but considerable bright periods; rather cold with local frost and fog inland at night.
5 S.W. England 6 South Wales ... 7 North Wales ...	Light variable wind, becoming light northerly; mainly fair but local fog towards dawn. Cool with slight frost inland at night.
8 N.W. England	As 12-13A.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1-4.
12 S.W. Scotland & Isle of Man. 13A. W. Scotland	Moderate northwest wind, veering north to northeast and freshening temporarily; mainly fair; rather cold.
13B. N.W Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate to fresh northeast wind, strong locally on coasts; local showers but considerable bright periods; rather cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light and variable wind; fair; warm during the day, cold at night with local frost and fog.

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 over Ireland with a ridge extending northwards to Iceland and another southeastwards to the Alps. Troughs of low pressure are moving southwards down the North Sea. There will be short periods of rain in the Northeast and East but on the whole it will be fair. Except in the Southwest it will be rather cold with local frost inland. Fog will form locally inland tonight in the Midlands, East and Southeast England.

FURTHER OUTLOOK.

Northeast wind, fair to cloudy, rather cold.

Forecasts issued at 10.30h.

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

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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of

Wednesday 22nd October

1941.

Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 22nd October 1941.

No. 29183.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1032·4	+2	W	1	zo	43	92	5	–	4	–	0	1	–
	S. Farnborough	226	1033·4	+2	NW'W	2	zo	41	92	6	–	–	–	0	0	–
	Boscombe Down	417	1034·0	+6	NW	2	zo	41	92	6	–	–	–	0	0	–
	Thorney Island	10	1033·2	+2	NW	2	b	43	92	8	–	–	1	0	Tr	–
	Lympne	346	1031·9	+2	NW	3	zo	41	97	6	–	–	8	0	4-6	–
	Manston	154	1031·8	+6	N'W	3	zo	48	92	6	–	–	–	0	0	–
2	Shoeburyness	11	1032·1	+8	NW	2	b	43	92	6	–	–	–	0	0	–
	Felixstowe	15	1031·2	+6	WNW	3	zo	45	92	5	–	–	–	0	0	–
	Gorleston	5	1030·4	+8	WNW	2	zo	43	85	6	1	–	–	Tr	Tr	2500
	Mildenhall	19	1031·9	+6	WSW	2	m	39	97	4	–	–	–	0	0	–
	Cranwell	240	1031·7	+2	W	2	zo	41	92	5	–	3	–	0	Tr	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1032·9	+4	NW	2	zo	39	97	6	–	3	5	0	1	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1033·6	0	N	2	b	52	85	8	–	–	–	0	0	–
	Bristol	209	1034·0	+6	—	0	zo	41	85	5	–	–	–	0	0	–
	Portland Bill	32	1032·7	+6	NNE	2	bc	49	85	8	5	–	–	4-6	4-6	4000
	Plymouth	82	1033·2	+2	E	2	b	43	85	6	–	–	–	0	0	–
	The Lizard	240	1033·7	+4	NE'N	3	b	48	85	8	–	–	–	0	0	–
	Scilly (St. Mary's)	163	1033·6	+2	E'N	3	b	51	85	8	–	–	–	0	0	–
	Guernsey	175														
6	Pembroke	142	1035·2	+10	NW	3	bc	49	85	8	7	–	–	2-3	2-3	3000
7	Holyhead (Valley)	26	1032·8	+2	WNW	2	bc	52	85	7	–	3	–	0	4-6	–
	Chester (Sealand)	16	1032·2	-2	W	1	PR	50	92	6	9	–	–	9+	9+	2000
8	Manchester	235	1032·3	+2	SSW	2	bc/pr	45	97	5	2	6	–	2-3	4-6	2500
10	Spurn Head	29	1030·6	+4	W'N	3	b	46	85	7	–	–	–	0	0	–
	Catterick	175	1031·4	+6	W	2	zo	40	92	6	–	–	–	0	0	–
	Tynemouth	108	1029·5	0	NW	3	zo	42	85	6	–	–	–	0	0	–
11	St. Abbs Head	280	1028·7	-4	WNW	4	b	47	65	8	4	–	–	1	1	2500
	Leuchars	36	1029·0	-2	WNW	2	b	41	92	8	5	–	–	Tr	Tr	3500
12	Renfrew (Abbots I.)	19	1031·3	+2	WSW	2	b	39	97	7	–	–	–	0	0	–
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1031·9	+4	NNW	3	bc	52	85	8	9	–	–	4-6	4-6	2000
13A	Tiree	22	1030·1	+6	NNW	4	bc	50	75	8	2	–	–	2-3	2-3	3500
13B	Stornoway	80	1028·7	+4	W	4	c/pr	46	92	7	8	4	–	4-6	9	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	1025·9	-6	W	3	pr	40	97	7	9	–	–	10	10	1000
16	Sumburgh	30	1022·9	-10	NW	4	pr	45	85	7	8	–	–	9	9	2000
17	Blacksod Point	18	1033·8	+4	—	0	bc	50	85	8	–	4	–	0	2-3	–
18	Malin Head	84	1032·6	+2	W	2	bc	49	85	8	6	–	–	2-3	2-3	4000
	Aldergrove	268	1033·7	+10	SW	1	zo	43	97	6	–	–	–	0	0	–
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1034·4	-4	ESE	1	b	41	92	9	–	–	–	0	0	–
	Roches Point	22	1034·7	0	NE'E	2	b	46	92	8	5	–	–	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 22nd October — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 21st Hrs. (36)
London (Kew)	1032·0	-8	SW'W	2	pr	46	85	6	5	3	–	9	9+	2500	1	*	58	42	29	–	Tr	7·8
Croydon	1031·8	-2	S'W	1	zo	38	97	6	5	3	–	4-6	7-8	2500	1	*	60	37	33	–	Tr	7·7
S. Farnborough	1032·2	-8	W'N	1	c	36	92	7	–	5	–	0	7-8	–	1	*	60	35	28	–	–	*
Boscombe Down	1033·1	-4	NW'N	2	fg	40	97	8	5	4	1	2-3	4-6	4000	0	*	57	37	30	Tr	Tr	9·5
Thorney Island	1032·6	-4	NW	1	bc	38	97	8	5	4	1	Tr	2-3	4000	0	*	60	38	31	–	–	*
Lympne	1031·3	-6	NW'W	2	cf	40	97	4	5	–	–	7-8	7-8	6000	1	§2	58	36	26	–	–	7·8
Manston	1031·2	-4	W'S	2	zo	42	97	5	6	–	–	9+	9+	5000	0	*	58	40	35	–	Tr	8·1
Shoeburyness	1031·2	-6	WSW	2	cf	43	92	3	5	4	1	4-6	7-8	7200	0	*	60	40	30	–	–	8·0
Felixstowe	1029·8	-6	S	3	zo	44	92	5	–	3	–	0	9+	–	1	2	58	42	38	–	–	7·9
Gorleston	1029·2	-10	W'S	2	zo	39	85	6	2	4	–	2-3	2-3	2500	1	2	(58)	37	33	–	0·2	*
Mildenhall	1030·7	-8	WSW	2	zo	41	97	5	5	7	–	7-8	9	4500	0	*	58	37	30	–	Tr	7·3
Cranwell	1030·5	-6	W'S	3	cf	42	97	3	–	3	8	0	7-8	–	1	*	57	*	35	–	Tr	6·2
Birmingham	1031·1	-2	W	2	c/pr	46	97	5	5	–	6	9	9+	1500	1	*	57	43	42	–	Tr	7·4
Upper Heyford	1031·7	-6	SW	2	c	44	97	7	5	4	–	9	9+	3500	1	*	57	38	35	–	–	*
Ross-on-Wye	1032·4	-6	SSE	2	c	40	92	8	5	–	1	7-8	7-8	3500	1	*	58	37	32	–	–	8·3
Hartland Point	1033·0	-2	E	2	bc	50	85	8	1	–	5	2-3	4-6	2500	0	3	55	43	44	–	–	7·8
Bristol	1032·7	-6	E	1	zo	40	97	6	–	7	1	0	2-3	–	1	*	59	37	28	–	–	8·0
Portland Bill	1032·3	-4	N	2	c	46	92	8	5	7	1	7-8	10	4000	1	3	59	45	*	–	–	*
Plymouth	1031·7	-4	—	0	zo	39	97	5	–	–	1	0	2-3	–	1	5	60	38	32	–	Tr	7·8 2.
The Lizard	1033·2	-2	NE	3	bc	44	92	8	4	–	–	2-3	2-3	2500	1	2	60	44	*	–	–	8·4
Scilly (St. Mary's)	1032·7	-6	E'S	2	b	48	85	8	–	–	–	0	0	–	1	3	59	47	*	–	–	8·1
Guernsey																						
Pembroke	1033·5	0	N	3	bc	49	92	8	7	4	–	2-3	2-3	3000	0	2	63	47	*	–	–	8·3
Holyhead (Valley)	1032·8	+6	NW	1	bc	47	97	8	2	–	2	2-3	4-6	2500	0	1	56	46	36	–	–	*
Chester (Sealand)	1031·5	+2	WNW	1	zo	45	97	6	2	3	–	4-6	4-6	2000	1	*	56	45	36	Tr	5	7·2
Manchester	1031·6	0	—	0	F—	44	97	1	2	–	–	9+	9+	2500	1	*	55	41	36	–	1	*
Spurn Head	1029·1	-6	WNW	4	zo	46	92	6	–	–	–	0	0	–	0	3	56	45	*	–	–	6·8
Catterick	1029·9	-4	W	3	c	44	85	8	5	5	9	Tr	7-8	2500	0	*	55	39	28	–	–	8·3
Tynemouth	1028·6	-6	W	4	zo	42	85	6	5	–	–	4-6	4-6	3000	1	3	54	41	37	–	–	**
St. Abbs Head	1026·8	-10	WNW	5	bc	47	75	9	4	4	8	2-3	4-6	2500	0	3	51	44	*	–	–	*
Leuchars	1027·3	-8	W	3	bc	44	85	8	5	–	–	4-6	4-6	3500	1	*	54	37	28	–	–	9·1
Renfrew (Abbots I.)	1030·3	+2	W'S	4	bc	46	85	7	5	–	–	4-6	4-6	7000	1	*	53	35	28	Tr	Tr	8·4
Eskdalemuir	1029·7	0	WNW	3	c	43	85	8	5	7	–	Tr	7-8	2500	1	*	52	36	27	Tr	–	7·8
Point of Ayre	1031·7	0	NW'N	5	c	52	85	8	9	4	6	7-8	9+	1000	1	3	55	50	*	0·4	0·1	6·3
Tiree	1030·5	+4	NNW	4	c	52	75	8	5	–	–	9	9	2800	0	5	54	49	**	Tr	–	6·4
Stornoway	1029·8	+10	NW	4	c	47	85	8	5	7	–	7-8	9+	2000	1	3	51	42	*	–	1	6·8
Dalwhinnie	1028·8	-2	WNW	2	c	43	75	8	7	–	5	4-6	7-8	2500	1	*	48	36	27	0·1	Tr	7·1
Aberdeen	1026·0	-2	WNW	4	bc	43	85	8	8	4	–	4-6	4-6	2100	1	2	51	38	29	0·1	Tr	8·3
Wick	1025·5	+8	NW'W	4	c/pr	43	85	9	3	–	–	7-8	7-8	1200	1	*	50	37	33	Tr	7	*
Sumburgh	1022·9	+14	NW	2	bc/pr	42	92	8	8	–	–	2-3	2-3	1500	1	3	47	40	35	2	5	*
Blacksod Point	1033·9	0	—	0	b	46	97	8	2	–	–	1	1	4000	0	2	58	42	*	–	–	*
Malin Head	1033·0	+6	NNW	4	bc	52	65	8	9	8	–	2-3	4-6	5700	0	4	55	46	*	1	–	2·9
Aldergrove	1033·8	+6	—	0	fg	36	97	7	5	4	5	1	2-3	3000	1	*	53	35	33	0·1	Tr	4·5
Birr Castle	1034·6	+2	NE	1	bc	33	97	8	–	–	5	0	4-6	–	1	*	58	32	29	–	–	6·8
Valentia Obsy.	1033·4	-4	NE'N	3	bc	39	97	9	–	–	2	0	4-6	–	1	2	58	39	35	–	0·1	6·9
Roches Point	1033·6	-4	N'E	3	bc	43	97	8	–	–	5	0	2-3	–	1	3	59	42	*	–	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temp. Day Max. °F.	Temp. Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cmwbcy	bczybmw	bmwcpr	58	42	29	–	Tr	7·8	*	*	5
Croydon	217	cmbc	bcybcm	bmwfgc	60	37	33	–	Tr	7·7	*	*	6
Greenwich (Royal Observatory)	149	bcy	bcby	bxcrcm	59	40	28	–	0·5	6·4	57	86	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	61	46	40	Tr			61	91	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	bc	bc	*	60	42	37	–	Tr	*	*	85	*
Kensington	80	bc	bcb	*	60	41	32	–	Tr		57	86	*
Hampstead Observatory	450	bc	bcp	bc	59	40	36	–	Tr		*	91	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 22nd

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·6	18h 21st	<0·1	10-11h 21st

FOREIGN OBSERVATIONS.

Stations	Evening of 21st October Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 22nd October Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1011·6	W	3	bc	43	1028·2	E	4	c	41	*	*	*	*
Lisbon (18h and 07h)	1022·1	NW	1	zo	72						82		–	
¶Madrid (18h and 07h)														
Cairo (Heliopolis) (18h and 06h)	1028·6	N'W	2	b	67	1019·5	–	0	bc	64	77	55	Tr	–
Toronto (13h and 01h)														
Washington (13h and 01h)						1012·9	W	1	bc	74	82	57		

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1½ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

SECRET

THE DAILY WEATHER REPORT

AIR MINISTRY. OF THE METEOROLOGICAL OFFICE, LONDON. BRITISH SECTION

Thursday 23rd October 1941. No. 29190

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1029·4	−20	NW'N	3	bc	55	55	7	8	–	–	4-6	4-6	2500
	Croydon	1029·0	−18	W	4	c	54	65	7	9	6	–	9	9	2000
	S. Farnborough	1030·0	−18	NW'N	4	c	56	65	8	8	–	6	7-8	9	3500
	Boscombe Down	1030·7	−18	NNW	4	c	55	65	7	2	–	1	4-6	7-8	3000
	Thorney Island	1030·2	−20	NW	4	bc	58	65	8	2	–	1	4-6	4-6	4000
	Lympne	1028·3	−22	NW	4	z_o	53	75	6	2	–	–	9	9	2500
	Manston	1027·9	−22	WNW	4	z_o	55	65	6	2	4	–	9	9	1700
2	Shoeburyness	1028·2	−14	NNW	3	c	55	65	8	5	–	–	7-8	7-8	2500
	Felixstowe	1027·0	−12	NW'N	5	c	55	55	8	2	7	–	7-8	9	3000
	Gorleston	1026·8	−16	NW	4	c	54	55	7	8	–	–	7-8	7-8	2500
	Mildenhall	1027·8	−18	NW	5	z_o	54	75	6	8	5	–	4-6	7-8	3000
	Cranwell	1027·3	−22	NW'N	4	bc	53	55	6	2	–	–	4-6	4-6	2500
3	Birmingham	1030·1	−10	NW	4	bc	54	65	8	1	–	6	2-3	4-6	2500
	Upper Heyford	1029·8	−12	WNW	4	c	53	75	8	7	6	8	4-6	7-8	2200
4	Ross-on-Wye	1030·8	−10	N'W	3	bc	56	55	9	1	–	1	2-3	4-6	4000
5	Hartland Point	1032·6	−8	N	2	bc	54	75	8	1	–	5	4-6	4-6	2500
	Bristol	1030·9	−14	NNW	3	bc	57	55	8	1	–	1	4-6	4-6	2600
	Portland Bill	1031·6	−12	W	2	bc	58	75	8	2	–	–	4-6	4-6	4000
	Plymouth	1031·5	−18	N	2	bc	58	65	8	1	–	8	2-3	4-6	3000
	The Lizard	1033·1	−12	ENE	2	bc	58	75	8	4	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	1032·2	−8	ENE	2	bc	59	75	8	1	–	2	1	2-3	2000
	Guernsey														
6	Pembroke	1033·3	−8	NW'N	3	bc	56	75	8	2	4	–	4-6	4-6	3000
7	Holyhead (Valley)	1032·3	−6	NNW	3	c	55	65	9	2	–	7	2-3	9+	2500
	Chester (Sealand)	1031·3	−2	NW	4	c	55	75	8	9	–	2	7-8	7-8	3200
8	Manchester	1030·2	−8	NW'W	5	c	53	65	7	2	3	–	7-8	7-8	3000
10	Spurn Head	1026·5	−18	NNW	6	phr	52	75	6	6	8	–	4-6	7-8	4000
	Catterick	1029·1	−2	N'W	3	bc	53	55	8	8	–	5	4-6	4-6	3000
	Tynemouth	1028·3	+2	N	5	bc	51	65	8	2	–	–	4-6	4-6	3000
11	St. Abbs Head	1027·3	−4	NNW	5	bc	49	55	8	2	4	–	4-6	4-6	2500
	Leuchars	1030·0	+12	NW	3	c	52	55	9	8	6	2	4-6	7-8	2800
12	Renfrew (Abbotsl.)	1030·8	+4	WNW	4	bc	54	65	9	2	–	6	2-3	4-6	3000
	Eskdalemuir	1029·4	−2	NW'N	4	c	52	55	8	5	3	–	4-6	7-8	2500
	Point of Ayre	1031·6	0	N'W	5	bc	56	75	8	2	4	2	1	4-6	2500
13A	Tiree	1032·8	+12	N'E	4	bc	53	65	8	5	3	–	2-3	4-6	3500
13B	Stornoway	1033·2	+12	NNW	4	bc	50	65	8	1	4	–	2-3	4-6	3000
15	Dalwhinnie	1034·3	+16	N	3	pr	46	55	8	5	–	–	9	9	2500
	Aberdeen	1028·8	+16	NNW	5	prs	50	65	8	3	–	–	9	9	2100
	Wick	1030·7	+26	N'E	6	bc	47	65	8	3	–	1	2-3	2-3	1800
16	Sumburgh	1029·8	+32	N	5	pr	41	85	8	9	–	–	9	9	1500
17	Blacksod Point	1034·6	+2	SE	1	bc	55	85	8	2	–	–	2-3	2-3	4000
18	Malin Head	1034·2	+6	N	3	bc	54	65	8	7	–	–	4-6	4-6	5700
	Aldergrove	1033·5	−8	NW	4	c	54	75	8	2	–	6	4-6	9	2500
19	Birr Castle	1034·4	−8	NNE	1	bc	57	75	8	2	–	–	4-6	4-6	2500
20	Valentia Obsy. †	1033·1	−8	W'S	2	b	57	65	9	–	–	3	0	1	–
	Roches Point	1034·1	−6	S	2	bc	56	75	9	7	–	1	4-6	4-6	4000

OBSERVATIONS at 18h. G.M.T. 22nd October

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base. (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1027·4	−8	NNW	3	z_o	52	55	6	5	–	–	4-6	4-6	2500	1	*
	Croydon	1027·3	−6	NNW	4	m/pr	49	75	4	4	4	–	4-6	7-8	2500	1	*
	S. Farnborough	1028·0	−6	NNW	3	bc	50	75	8	4	4	8	Tr	2-3	3000	0	*
	Boscombe Down	1028·5	+2	W'S	3	bc	47	75	8	–	–	1	0	4-6	–	0	*
	Thorney Island	1028·3	−6	NW	3	b	50	75	7	–	4	1	0	1	–	0	*
	Lympne	1026·3	−8	NW	3	bc/z_o	44	85	6	2	7	–	2-3	4-6	2200	1	3
	Manston	1026·1	+2	N'W	5	z_o	50	65	6	8	–	–	9+	9+	4000	0	*
2	Shoeburyness	1026·6	−2	NNW	3	bc/pr	47	75	7	8	–	–	4-6	4-6	4000	0	*
	Felixstowe	1025·6	+2	NW	2	bc/pr	46	75	8	8	6	–	2-3	2-3	3500	1	2
	Gorleston	1024·5	−8	NW	4	bc/pr	47	75	7	9	–	–	4-6	4-6	2000	1	3
	Mildenhall	1027·3	+2	NW	3	bc	45	85	7	8	6	–	2-3	2-3	2500	1	*
	Cranwell	1027·8	0	N'W	4	z_o	46	65	6	5	–	–	2-3	2-3	3000	1	*
3	Birmingham	1028·7	−6	NW	3	bc	49	75	6	5	–	–	2-3	2-3	2500	1	*
	Upper Heyford	1028·5	0	NW'N	3	pr	49	75	7	4	–	–	9	9	3000	1	*
4	Ross-on-Wye	1029·5	−6	SW'W	1	b	50	75	9	4	–	1	Tr	1	3500	1	*
5	Hartland Point	1030·2	−8	N	3	bc	54	75	9	7	–	5	4-6	4-6	2500	0	4
	Bristol	1029·8	−4	N	2	bc	48	75	6	4	3	–	Tr	4-6	2500	1	*
	Portland Bill	1028·8	−6	WNW	3	c	55	85	8	2	–	–	7-8	7-8	4000	0	3
	Plymouth	1029·6	−8	NNE	3	b	52	85	8	1	–	–	Tr	Tr	3000	0	3
	The Lizard	1031·0	−2	N	3	bc	51	85	8	7	4	–	4-6	4-6	3500	0	3
	Scilly (St. Mary's)	1031·0	−6	NE'E	3	bc	52	85	8	1	–	2	2-3	4-6	2200		3
	Guernsey																
6	Pembroke	1032·6	+4	N'E	4	bc	49	52	8	2	4	–	2-3	4-6	3000	0	2
7	Holyhead (Valley)	1031·0	−6	N	4	bc	52	75	8	8	4	8	2-3	4-6	2000	0	3
	Chester (Sealand)	1029·6	−6	NNW	4	bc	51	85	7	8	–	2	4-6	4-6	1000	1	*
8	Manchester	1029·4	+4	N'W	3	c/pr	49	65	6	8	–	–	9	9	2000	1	*
10	Spurn Head	1026·0	0	NNW	7	bcq	48	75	7	4	4	–	4-6	4-6	2500	0	5
	Catterick	1029·6	+6	N	4	bc	47	55	7	5	4	–	2-3	2-3	2500	0	*
	Tynemouth	1029·5	+4	NW	6	c	45	85	6	8	–	–	9	9	2200	1	4
11	St. Abbs Head	1030·2	+8	N	6	bcq	47	65	8	2	4	–	2-3	2-3	2500	1	4
	Leuchars	1032·2	+14	NNW	2	b	43	85	9	8	–	1	1	1	3100	1	*
12	Renfrew (Abbotsl.)	1033·2	+18	NNE	2	bc	45	65	9	4	–	2	1	2-3	3000	1	*
	Eskdalemuir	1031·5	+12	N	2	c	41	75	8	7	–	–	7-8	7-8	2500	1	*
	Point of Ayre	1031·0	+2	NNE	5	b	52	65	8	1	4	–	Tr	1	2000	0	5
13A	Tiree	1033·8	+8	N'E	3	bc	50	65	8	1	–	–	2-3	2-3	3500	0	4
13B	Stornoway	1035·2	+10	NNW	3	c	41	85	8	1	7	1	4-6	7-8	2000	1	1
15	Dalwhinnie	1033·8	+6	N	3	bc/ps	38	75	8	7	–	5	4-6	4-6	2500	1	*
	Aberdeen	1031·8	+16	NNW	3	bc/rs	41	85	8	8	–	–	4-6	4-6	2100	1	4
	Wick	1033·8	+20	N	5	cjp	43	55	8	3	–	–	9	9	1800	1	*
16	Sumburgh	1032·1	+16	N	4	c	41	75	8	8	–	–	9+	9+	1500	1	5
17	Blacksod Point	1033·1	−6	ENE	3	bc	53	85	8	2	–	4	2-3	4-6	4000	0	4
18	Malin Head	1034·1	+2	N	3	bc	51	75	8	2	7	–	2-3	4-6	5700	0	3
	Aldergrove	1033·5	0	NNW	2	b	46	92	8	1	–	8	Tr	1	1800	1	*
19	Birr Castle	1033·2	−2	NNE	1	b	47	92	8	–	–	–	0	0	–	1	*
20	Valentia Obsy. †	1031·5	−10	EN	2	b	51	75	9	1	–	1	Tr	Tr	2500	1	2
	Roches Point	1032·2	−10	SE	2	bc	50	85	9	5	–	1	1	2-3	2500	1	3

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—18h. 22nd (37)	Weather. 13h.—18h. 22nd (38)	Weather. 18h. 22nd to 1h. 23rd (39)	Weather. 1h.—7h. 23rd (40)
1	London (Kew)	procmobbc	bcycpro	bcbcbzow	bwbmo
	Croydon	procmo	cmoprmc	bbe	bcwmo
	S. Farnborough	cmobcc	cybc	cidbzo	bzobcb
	Boscombe Down	bc	bc	beprobmo	bbmox
	Thorney Island	bwbc	bccb	b,cmob	bbw
	Lympne	cmo	cmokqpr	bcbmoxx	prhR
	Manston	cmiro	cproczo	czobcc	ccproRpro
2	Shoeburyness	cprobc	bcpr	bcbmo	bmowb
	Felixstowe	cbcmoc	bc	propr	bbcpro
	Gorleston	bcmcy	tlrpro	cprhl	bcq
	Mildenhall	bmocmoczo	cprobc	bcpro	bmocpro
	Cranwell	Fbczo	bczobc	bmow	bmo
3	Birmingham	cbc	bc	bcprb	bprox
	Upper Heyford	c	cpro	prorrrbmo	bmobm
4	Ross-on-Wye	cbbc	bcvyb	bbcvb	b
5	Hartland Point	bc	b	bc	bc
	Bristol	bmobc	bcmo	bcmobmo	bmo
	Portland Bill	bc	c	bebc	bc
	Plymouth	bmobc	bcb	bmow	bmow
	The Lizard	bc	pc	beb	bc
	Scilly (St. Mary's)	bbc	b	bc	bcbbc
	Guernsey				
6	Pembroke	bc	bc	bc	bc
7	Holyhead (Valley)	bc	bccbc	bcbbc	cbcx
	Chester (Sealand)	cmoc	cprbc	beq/bmo	bmobx
8	Manchester	cmmo	bcprczo	czobmow	bmobmox
10	Spurn Head	bcqph	cqpr	cqbc	bcqph
	Catterick	cbc	bybcy	bprcb	civo
	Tynemouth	bcprbc	bcc	bcep	csc
11	St. Abbs Head	bcirbc	bcqpr	cqprir	bcqc
	Leuchars	bc	procb	bcxbc	bcxbc
12	Renfrew (Abbotsl.)	bccbc	bcyb	b	bfgbx
	Eskdalemuir	bcy	bcv	bcb	bx
	Point of Ayre	cbc	cbcb	b	bbc
13A	Tiree	cbc	bc	bc	bcb
13B	Stornoway	c	c	bc	c
15	Dalwhinnie	bcc	cpsbc		cbc
	Aberdeen	bcprcpprs	prsprojp	bcjpcprobc	bcc
	Wick	eprbc	phroc	cproroc	bccproc
16	Sumburgh	b;cpro	procpr	bcpro	bcc
17	Blacksod Point	bc	bc	b	b
18	Malin Head	bc	c	bc	bcvbc
	Aldergrove	bfgcbc	cbcbcw	bbw	bwxb
19	Birr Castle	bc	bcb	*	bx
20	Valentia Obsy. †	cbcbv	bv	bvbw	bwb
	Roches Point	bc	bc	b	bbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄ gale.
⊕ Solar halo. ☽ lunar halo. ⌔ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

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.

† See disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually 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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

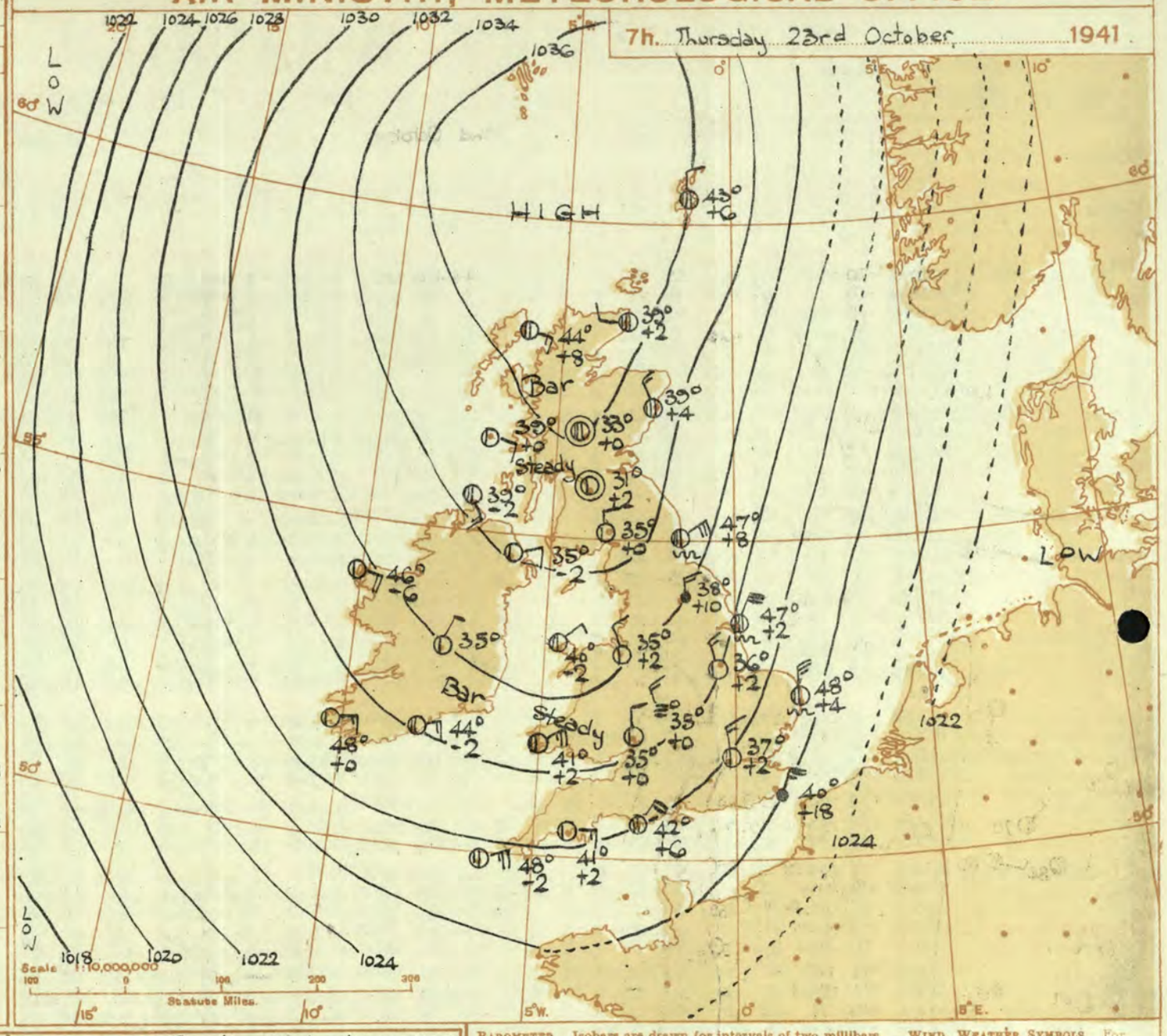
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 22nd October ... 18h. G.M.T.			01h. G.M.T. 23rd October ... 07h. G.M.T.							
	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	80	02854	65684	8-	20756	65686	50	02764	32324	5-	03868	04228
115	87	10944	32525	52	81844	32486				57	02844	08226
203	70	02935	20525	74	10934	32525						
206	86	25955	30385	84	01864	30124	8-	02956	32326	53	02955	16127
210	86	02956	30487	8-	81747	65587	8-	25867	37587	5-	02956	32326
220	52	22755	30268							40	01953	10203
230	10	01953	28584	40	00961	31503	50	00861	00011	14	00861	10203
245	86	02954	63584	86	10962	32483	50	01864	31414	5-	01964	31314
260	80	02954	30415	80	01863	32313	50	01763	02113	5-	02765	00005
278	8-	02857	29517	20	00951	32412	00	00890	02300	50	00861	20102
279	84	02856	28416	40	01864	01214	00	00890	63300	57	00942	32103
285	10	01854	32514	20	01853	30513				20	26743	28483
288	26	27553	30383	86	05654	31314	80	27645	30385	2-	25545	32385
575	40	01854	26144	40	01851	28113				00	00890	08201
301	14	00852	29413	10	05653	03313	00	00790	02300	50	05661	32201
321	26	01854	61644	44	00651	30311	50	05652	30302	50	00753	30403
299				80	25744	30784				80	25844	30784
292	87	01954	61525	40	01953	31313	80	00752	29382	20	25844	29384
310	--	01634	24414	--	01635	24525				--	01643	32 xxx
614	20	01754	61424	40	05554	31224	00	05690	30410	20	05652	01302
333	1-	01954	26415	44	01854	28315	00	00880	01200	5-	01951	02101
334	--	01854	20215	--	02645	04316				--	01543	30214
340	24	01953	28314	26	27753	30284	00	05690	28280	10	05651	28201
136	23	02755	29415	86	25854	63585	40	25843	32483	80	25855	02385
336				14	01761	28413				14	01762	32313
350				4-	05665	29215	50	05552	30302	50	05653	32303
368	10	01854	30314	10	01861	28214	00	05690	00000	50	00761	32201
379	70	01853	28313	40	01852	28314	00	95690	63400	50	05641	32401
390	26	01764	26464	00	05690	26311	8-	81545	30305	80	05651	32301
382	16	01854	28414	44	01864	28314	00	05690	31400	50	05662	32302
438	40	02754	24214							5-	01763	32513
430	20	01854	24xxx	10	00761	28312	00	00780	30400	50	00751	30401
409	10	01852	32213	70	01954	01314	50	01853	05213	50	00751	04111

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



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 Occ
= 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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 23rd October, 1941.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Fresh N.E. rather squally winds, becoming moderate, local thundery showers with risk of hail at first, especially on coasts, becoming generally cloudy later. Cold.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Light E. wind but moderate at first on south coast. Mainly fair. Cold with sharp frost locally inland tonight.
8 N.W. England 9 N. Midlands ...	Light E. to S.E. wind. Mainly fair. Cold with sharp frost inland tonight.
10 N.E. England 11 S.E. Scotland	Moderate N.E. wind, becoming light E. Local showers on coast at first, becoming fair. Cold with local frost inland tonight.
12 S.W. Scotland & Isle of Man. 13A. W. Scotland 13B. N.W Scotland	Light S.E. to S. wind. Mainly fair. Rather cold with frost inland at night.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light N.E. to variable wind. Fair to cloudy; cold with sharp frost inland at night and local fog.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light E. to S.E. wind. Fair. Rather cold with sharp frost inland at night.

GENERAL INFERENCE.

An anticyclone centred to the North of Scotland is moving slowly E.S.E. There will be thundery showers with risk of hail in the eastern coastal districts of England and it will be cloudy in eastern Scotland. Elsewhere it will be mainly fair. It will be cold generally.

FURTHER OUTLOOK.

N.E. winds, cold and cloudy in the S.E.
S.W. winds, fair and warmer in the N.W.

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. 9269/4120. No. 8/76. D. 8034. 6p. 948. 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.)

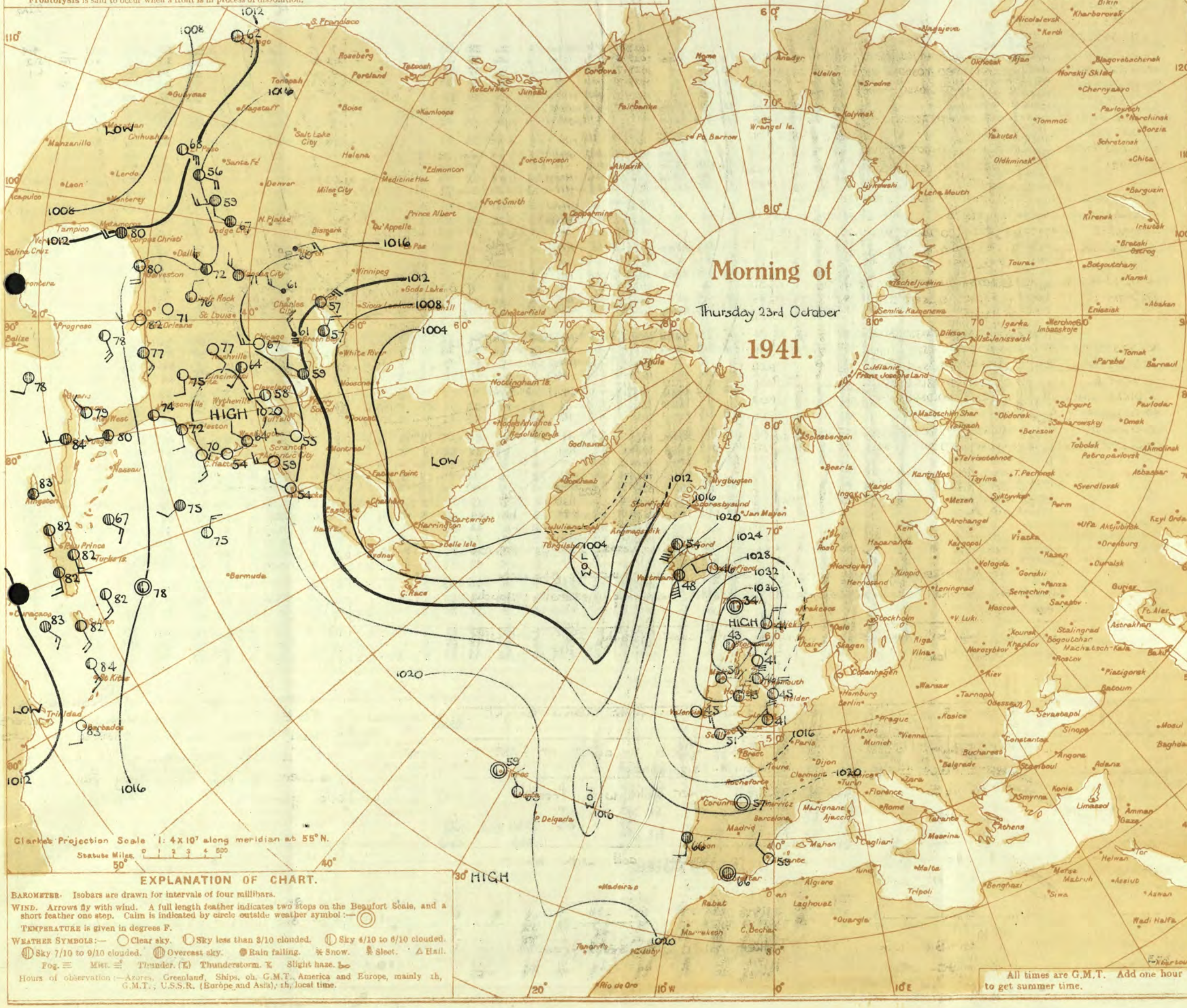
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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, 0h. 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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 23rd October 1941.

No. 29190

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1027.5	+2	N	4	be	41	85	7	5	-	-	4-6	4-6	2500
	S. Farnborough	226	1028.0	-2	NNW	2	z.	41	75	6	-	-	-	0	0	-
	Boscombe Down	417	1029.3	+10	N	2	b	39	85	7	-	-	-	0	0	-
	Thorney Island	10	1027.7	+2	N'W	4	b	43	75	7	-	-	-	0	0	-
	Lympne	346	1024.8	-10	NNW	5	b	41	92	7	5	-	-	Tr	Tr	2000
	Manston	154	1024.8	-18	N'W	5	c	45	85	7	5	-	-	7-8	7-8	2000
2	Shoeburyness	11	1025.9	0	NW'N	5	b	41	85	6	5	-	-	1	1	4000
	Felixstowe	15	1024.9	+6	N	3	b/pr	43	85	8	2	-	-	1	1	2500
	Gorleston	5	1030.5	+10	N	5	bc/phr	46	75	6	8	-	-	4-6	4-6	2600
	Mildenhall	19	1027.3	+4	NNW	3	pr	42	92	6	8	-	-	9+	9+	2300
	Cranwell	240	1029.1	+8	N	5	z.	39	85	6	5	-	-	Tr	Tr	3000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1029.1	+2	NNW	3	z.	37	85	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1028.8	-8	NE	3	bc	51	75	8	1	-	-	2-3	2-3	2500
	Bristol	209	1030.2	+2	NE	3	z.	42	75	5	-	-	-	0	0	-
	Portland Bill	32	1027.3	+4	N	4	bc	51	85	8	5	-	-	4-6	4-6	4000
	Plymouth	82	1028.5	-6	E'N	1	z.	45	85	6	-	-	-	0	0	-
	The Lizard	240	1029.1	-8	NE	4	b	47	85	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1029.5	-6	ENE	4	bc	51	75	8	1	-	-	2-3	2-3	2000
	Guernsey	175														
6	Pembroke	142	1030.3	0	NE	5	b	48	75	8	2	-	-	Tr	Tr	3000
7	Holyhead (Valley)	26	1032.0	+10	NNE	1	c	43	85	7	3	-	-	7-8	7-8	1200
	Chester (Sealand)	16	1032.0	+2	NNE	2	b	39	85	6	-	-	-	0	0	-
8	Manchester	235	1031.7	+6	N	2	z.	38	85	6	-	-	-	0	0	-
10	Spurn Head	29	1028.3	+10	NNE	5	bc/phr	45	75	7	2	-	-	4-6	4-6	2500
	Catterick	175	1032.0	+8	N'W	3	b	40	85	6	5	-	-	1	1	1500
	Tynemouth	108	1030.8	+12	N	6	c/pr	46	85	7	2	-	-	7-8	7-8	2500
11	St. Abbs Head	280	1032.8	+18	N	6	ro.ro.	41	92	8	5	2	-	7-8	10	1500
	Leuchars	36	1034.6	+6	NW	1	bc	40	85	9	5	-	-	2-3	2-3	3500
12	Renfrew (Abbots I.)	19	1035.3	+4	W'N	2	b	39	75	8	5	4	-	Tr	1	3500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1033.4	+2	ENE	6	b	46	65	8	4	-	-	Tr	Tr	3000
13A	Tiree	22	1034.5	+4	NNE	1	b	43	85	8	-	4	-	0	1	-
13B	Stornoway	80	1036.5	+10	ENE	2	c	43	65	7	5	7	4	2-3	4-6	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	1035.9	+10	NNE	4	c/r	43	75	8	5	-	-	10	10	2500
16	Sumburgh	30	1035.4	+10	NNE	3	bc	41	92	8	5	-	-	2-3	2-3	1500
17	Blacksod Point	18	1033.2	+2	ESE	3	b	49	85	8	-	-	-	0	0	-
18	Malin Head	84	1034.7	+6	E	4	be	50	92	8	-	3	-	0	2-3	-
	Aldergrove	268	1035.2	+8	ENE	1	b	39	85	8	-	-	-	0	0	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1030.6	-12	E	3	b	45	85	9	-	-	2	0	1	-
	Roches Point	22	1031.7	-6	NE'E	3	b	45	85	8	-	-	-	0	0	-

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 22nd Hrs. (36)
London (Kew)	1028.1	+6	NNW	3	z.	38	85	6	5	-	-	1	1	2500	1	*	56	38	33	0.2	-	4.4
Croydon	1027.8	+2	N'W	3	z.	37	92	6	5	-	-	2-3	2-3	1200	1	*	56	37	33	1	Tr	5.2
S. Farnborough	1028.7	+4	NNW	1	b	37	92	7	-	-	-	0	0	-	0	*	58	36	32	-	-	6.1
Boscombe Down	1029.8	+6	N	4	z.	35	92	6	-	-	-	0	0	-	0	*	57	34	29	-	Tr	7.6
Thorney Island	1027.8	+4	N'W	4	b	39	85	7	8	6	-	Tr	Tr	*	0	*	59	37	32	-	-	*
Lympne	1026.5	+18	NNE	5	RR	40	92	5	6	-	-	10	10	200	1	§ 4	55	39	35	0.4	8	5.2
Manston	1026.2	+14	NE'N	4	pr	43	85	7	8	-	-	9	9	2500	1	*	55	41	39	Tr	12	3.4
Shoeburyness	1026.7	+14	N	2	be	38	85	7	5	-	-	2-3	2-3	4000	1	*	56	36	31	Tr	-	4.0
Felixstowe	1026.6	+12	NNW	2	be	40	92	8	3	-	-	2-3	2-3	2500	1	2	56	40	34	-	0.2	5.7
Gorleston	1026.2	+4	N	5	bc	48	65	7	8	-	-	4-6	4-6	2500	1	5	54	44	40	2	3	*
Mildenhall	1029.0	+6	NW'N	2	be	39	92	8	8	-	-	2-3	2-3	2500	1	*	55	36	29	0.4	1	4.6
Cranwell	1029.8	+2	NNW	3	z.	36	92	6	3	-	-	1	1	2000	0	*	55	*	*	Tr	-	5.5
Birmingham	1030.9	0	NNW	3	m	35	97	4	-	-	-	0	0	-	1	*	55	35	29	-	0.6	5.0
Upper Heyford	1030.1	+8	NNW	3	z.	34	97	5	-	4	-	0	2-3	-	1	*	55	34	33	Tr	Tr	*
Ross-on-Wye	1030.9	0	N	2	b	35	92	6	-	-	-	0	0	-	1	*	57	34	28	-	-	8.0
Hartland Point	1029.0	-2	ENE	4	bc	45	75	8	2	-	-	2-3	2-3	2500	0	4	56	45	43	-	-	8.4
Bristol	1030.9	+6	N	1	z.	35	92	6	1	-	-	Tr	Tr	3000	1	*	58	35	24	-	-	7.8
Portland Bill	1027.8	+6	NE	4	bc	42	85	8	5	-	-	4-6	4-6	4000	0	3	58	39	*	-	-	*
Plymouth	1028.5	+2	E	3	b	41	75	7	-	-	-	0	0	-	1	3	59	41	33	-	-	9.[illegible]
The Lizard	1028.7	+6	NE	6	bc	46	65	8	8	-	-	4-6	4-6	2500	0	4	59	44	*	-	-	9.4
Scilly (St. Mary's)	1028.0	-2	E'N	5	be	48	75	8	8	-	-	2-3	2-3	2000	1	4	60	47	*	-	-	9.7
Guernsey																						
Pembroke	1031.5	+2	NE'E	5	bc	41	85	8	2	-	-	2-3	2-3	3000	0	3	57	40	*	-	-	8.7
Holyhead (Valley)	1032.8	-2	NE	1	bc	40	85	9	7	-	5	2-3	4-6	2500	0	2	57	40	27	-	Tr	*
Chester (Sealand)	1032.5	+2	NNW	2	b	35	85	7	5	-	-	Tr	Tr	3000	0	*	56	34	26	Tr	-	6.0
Manchester	1032.4	+14	NW	1	z.	36	85	6	5	-	-	1	1	800	1	*	55	34	27	Tr	-	*
Spurn Head	1028.8	+2	NE'N	6	c/phr	47	75	7	8	4	-	4-6	7-8	2500	1	5	53	38	*	Tr	2	
Catterick	1033.4	+10	N	3	rr	38	92	7	5	2	-	9	10	1000	1	*	54	38	31	-	1	6.5
Tynemouth	1032.3	+8	NE	6	c	47	75	7	2	-	-	7-8	7-8	2000	1	5	51	40	35	Tr	2	*
St. Abbs Head	1033.4	+2	N	4	c	46	65	9	5	7	-	4-6	7-8	2400	1	3	50	46	*	0.1	0.1	*
Leuchars	1035.1	+2	NW	1	be	38	85	8	5	-	-	2-3	2-3	3500	1	*	52	38	29	0.5	-	5.8
Renfrew (Abbots I.)	1035.6	+2	-	0	b	31	92	8	-	4	1	0	1	-	0	*	55	31	23	-	-	6.3
Eskdalemuir	1034.3	0	N	2	b	35	85	8	5	7	-	Tr	1	2500	1	*	53	32	22	-	-	7.0
Point of Ayre	1034.2	+4	ENE	3	c	44	75	8	2	-	-	7-8	7-8	2000	0	3	56	43	*	-	-	6.1
Tiree	1035.6	0	ESE	2	b	39	85	9	1	4	5	Tr	Tr	3500	0	2	54	35	*	-	-	4.0
Stornoway	1036.7	+8	ESE	3	bc	44	65	8	5	4	-	2-3	4-6	2000	1	1	52	39	*	-	-	7.9
Dalwhinnie	1036.9	0	-	0	c	33	92	7	5	-	-	7-8	7-8	1500	1	*	46	31	25	0.2	Tr	4.7
Aberdeen	1035.5	+4	NNW	3	e	39	85	7	8	-	-	7-8	7-8	1800	1	3	(50)	36	32	2	0.1	6.0
Wick	1036.5	+2	W	2	c/pr	39	85	9	5	7	-	9	9+	2000	1	*	40	38	34	0.3	Tr	*
Sumburgh	1036.5	+6	N	2	c	43	75	9	5	-	-	9	9	2000	1	3	46	34	33	0.2	0.1	3.5
Blacksod Point	1032.2	-6	ESE	4	b	46	85	8	-	-	-	0	0	-	0	4	59	44	*	-	-	*
Malin Head	1034.8	-2	SSE	3	bc	39	85	8	9	-	-	2-3	2-3	3700	0	3	54	36	*	Tr	-	6.[illegible]
Aldergrove	1035.0	-2	ENE	2	b	35	85	8	-	-	1	0	Tr	-	1	*	55	34	27	-	Tr	6.5
Birr Castle	1032.9	0	NNE	1	b	35	92	8	-	-	-	0	0	-	1	*	58	34	29	-	-	6.0
Valentia Obsy.	1029.6	0	E	3	b	48	65	9	-	-	2	0	1	-	1	3	59	43	36	Tr	0.1	9.0
Roches Point	1030.6	-2	ENE	3	bc	44	85	8	5	-	-	2-3	2-3	2500	1	3	57	42	*	Tr	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 hrs. ended 9h.											
Kew	18	procmobbe	beyepr,be	bcbzowbm.	56	38	33	0.2	-	4.4	*	*	6
Croydon	217	procmo	cmoprm	c,bbewmo	56	37	33	1	Tr	5.2	*	*	4
Greenwich (Royal Observatory)	149	cmo	cbycb	bcbwmo	56	38	31	-	-	3.7	59	74	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	58	43	38	-			67	79	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	56	38	33	Tr	-		69	75	*
Camden Square	110	bc	bc	*	57	38	35	-	-	*	*	77	*
Kensington	80	bc	beep	*	57	39	33	0.1	Tr		61	72	*
Hampstead Observatory	450	bc	bep.	b	59	35	31	Tr	-		*	77	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 23rd

South Kensington: Max.	Time.	Min.	Time.

Kew Observatory: Max.	Time.	Min.	Time.
0.2	18-20h 22nd	<0.1	2-6h 23rd

FOREIGN OBSERVATIONS.

Stations	Evening of 22nd October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 23rd October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1025.5	SE	6	c/d	48	1016.0	SSE	7	ir.	50	*	*	*	*
Lisbon (18h and 07h)	1018.1	WNW	4	o	70	1015.3	WNW	1	o	64	82	63	-	-
¶Madrid (18h and 07h)						901.3	NE	3	z.	52		52		-
Cairo (Heliopolis) (18h and 06h)						1018.4	N	1	bc	64		58		-
Toronto (13h and 01h)														
Washington (13h and 01h)						1019.6	SW	2	bz	64	71	54	Tr	

¶Pressure at 1,000 dynamic metres level.

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

Code		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6¼ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Friday 24th October 1941.

No. 29,191

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1029.1	+2	NE'N	3	bc	51	55	7	2	-	4	4-6	4-6	2500
	Croydon	1028.4	-4	NE'N	4	bc	52	55	7	2	-	-	4-6	4-6	2500
	S. Farnborough	1028.4	-14	NE'N	3	bc	51	55	7	2	-	-	4-6	4-6	3000
	Boscombe Down	1029.9	-6	NE	4	bc	48	65	7	2	-	-	4-6	4-6	2500
	Thorney Island	1028.6	-6	NE'N	4	b	52	65	7	1	-	-	Tr	Tr	4000
	Lympne	1027.1	-2	NNE	4	bc	50	75	8	3	-	-	2-3	2-3	2200
	Manston	1027.7	-2	NNE	4	pr	52	65	7	3	-	3	7-8	9	1500
2	Shoeburyness	1028.3	+2	NNE	3	bc	54	55	8	7	-	-	2-3	2-3	4000
	Felixstowe	1027.5	0	NE	4	c	53	55	9	2	-	-	7-8	7-8	3000
	Gorleston	1028.5	+10	NW	5	c	52	65	7	8	-	-	4-6	4-6	2500
	Mildenhall	1029.7	+2	NE	3	c	52	75	8	8	7	1	4-6	7-8	3000
	Cranwell	1031.4	-2	N	3	c	49	65	8	2	-	-	7-8	7-8	2500
3	Birmingham	1031.7	-2	NE	3	bc	48	65	6	1	-	-	4-6	4-6	2500
	Upper Heyford	1030.6	-4	NNE	4	c	49	65	8	2	6	-	7-8	7-8	1500
4	Ross-on-Wye	1031.3	-4	N'E	3	z	47	65	6	8	-	-	9+	9+	3500
5	Hartland Point	1029.8	-4	ENE.	4	bc	47	75	8	1	-	-	4-6	4-6	2500
	Bristol	1030.8	-6	NE'N	3	z	47	65	6	1	-	-	7-8	7-8	2500
	Portland Bill	1028.4	-8	ENE	4	bc	51	75	8	1	-	-	4-6	4-6	4000
	Plymouth	1028.6	-18	ENE	4	bc	50	55	7	1	-	-	2-3	2-3	2500
	The Lizard	1028.5	-8	ENE	6	bc	50	65	8	2	3	-	4-6	4-6	2500
	Scilly (St. Mary's)	1028.7	-2	E	4	bc	53	65	8	1	-	-	2-3	2-3	2000
	Guernsey														
6	Pembroke	1032.5	+12	E'N	5	bc	49	75	8	2	-	-	2-3	2-3	3500
7	Holyhead (Valley)	1033.5	+2	E	3	bc	50	65	9	7	-	-	4-6	4-6	2500
	Chester (Sealand)	1033.3	-2	N'W	1	z	48	75	5	5	-	-	4-6	4-6	2000
8	Manchester	1032.7	-4	NE'N	3	c	49	65	7	1	-	-	7-8	7-8	3000
10	Spurn Head	1031.3	+6	NNE	5	c	51	75	7	6	4	-	7-8	7-8	2500
	Catterick	1033.6	-4	NE'N	3	bc	50	65	8	1	-	-	4-6	4-6	2800
	Tynemouth	1033.8	-2	NE	4	c	50	75	8	8	-	-	7-8	7-8	2000
11	St. Abbs Head	1034.0	0	N	4	pr	47	92	8	8	2	-	7-8	9	2000
	Leuchars	1035.5	-2	NNE	2	c	50	75	8	5	-	-	7-8	7-8	4500
12	Renfrew (Abbots I.)	1036.2	-2	S	1	z	47	65	5	3	3	-	7-8	9	2500
	Eskdalemuir	1034.7	+6	NE'N	3	c	46	75	8	5	-	-	7-8	7-8	2500
	Point of Ayre	1034.8	0	E	3	b	49	65	8	1	-	-	Tr	Tr	2000
13A	Tiree	1036.0	-4	SES	3	b	49	55	8	7	-	-	1	1	3500
13B	Stornoway	1036.4	-2	SSE	3	b	47	65	9	1	4	-	Tr	1	3500
15	Dalwhinnie	1036.0	+4	E	1	bc	44	65	8	7	-	-	4-6	4-6	2500
	Aberdeen	1036.0	+2	NE	3	c/pr	48	85	8	8	-	-	7-8	7-8	1700
	Wick	1036.9	-6	NNE	2	c	47	85	9	5	-	1	9	9	2500
16	Sumburgh	1037.0	0	N	1	c	44	85	9	5	-	-	10	10	2500
17	Blacksod Point	1031.3	-4	ES	5	b	50	65	8	2	-	-	1	1	4000
18	Malin Head	1035.0	-4	SSE	1	bc	49	65	8	2	-	-	2-3	2-3	5700
	Aldergrove	1035.4	-2	E	1	bc	49	65	8	2	-	-	2-3	2-3	3000
19	Birr Castle	1032.7	-2	SE	2	bc	49	65	8	2	-	-	4-6	4-6	2500
20	Valentia Obsy. †	1028.9	-6	ESE	5	b	52	55	9	4	-	-	1	1	2500
	Roches Point	1031.1	-2	E	5	bc	51	55	9	2	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 23rd October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 23rd (37)	Weather 13h.–18h. 23rd (38)	Weather 18h. 23rd to 1h. 24th (39)	Weather 1h.–7h. 24th (40)
London (Kew)	1029.7	+4	NNE	3	b	48	65	6	5	-	-	1	1	2500	1	*	bzwbc	bczybz	bm.bcw	bcmow
Croydon	1029.1	+6	N'E	3	m	46	75	4	5	3	-	2-3	2-3	2500	1	*	bmbcz	bcybz	bmbm.w	bmowcm.
S. Farnborough	1029.6	+8	NNE	2	b	47	75	6	4	-	-	1	1	3000	0	*	bbc	bcb	bmm.bcwx	bcbwumm
Boscombe Down	1030.1	+2	N'E	2	z	43	75	7	4	-	-	Tr	Tr	4000	0	*	bmzb	bcbz	bw	bm.
Thorney Island	1028.6	+2	NNE	2	z	45	85	6	5	-	-	Tr	Tr	4000	0	*	b	bz	bbmob	bbcbw
Lympne	1027.8	+2	NE	2	pr	45	75	8	3	-	-	9	9	1800	1	§*	cpzbc	cPR	bcprbc	bcePR
Manston	1027.7	+2	N'E	4	c/pr	47	97	8	9	-	-	7-8	7-8	1000	1	*	cpzc	cpnrPR	bcprmbc	bcepr.
Shoeburyness	1029.0	+4	N	2	b	45	85	8	4	-	-	1	1	2500	1	*	bcbbcy	bccprb	bbcpr	bcprcpr
Felixstowe	1028.1	+4	N'W	4	b	45	85	8	8	-	-	1	1	2000	1	3	bcjpb	tlrq	prpr	prtlr.
Gorleston	1029.0	+2	N'W	6	bc/pr	48	75	7	8	-	-	4-6	4-6	2300	1	4	bcpr.	cpc	bcq	bcpr.
Mildenhall	1030.1	+6	N	2	c	44	92	8	8	6	-	7-8	7-8	3000	1	*	bbcjp	cpcbc	cbcbw	cprobc
Cranwell	1031.5	+2	N	3	bc	44	75	6	5	-	-	2-3	2-3	4000	1	*	bbcpr	bcpc	bzomopr	bmow
Birmingham	1032.2	+4	NNE	3	z	45	75	5	5	-	-	2-3	2-3	2500	1	*	bbc	bcb	bz	bm
Upper Heyford	1030.8	+6	N	2	b	43	75	7	4	-	-	Tr	Tr	4000	1	*	bc	bcpc	bbm.	bm.mfF
Ross-on-Wye	1030.9	0	ENE	2	z	44	75	6	-	-	-	0	0	-	1	*	bDcc	bcz	bmocmo	cmobmo
Hartland Point	1029.4	0	NE	4	bc	48	65	8	2	-	8	2-3	4-6	2500	0	4	bc	bc	bcbcb	bbc
Bristol	1030.7	0	NE	1	z	43	55	5	-	-	-	0	0	-	0	*	bbcm	bz	bmfx	bfbcmx
Portland Bill	1028.8	+8	NNE	3	bc	48	75	8	5	-	+	4-6	4-6	2500	0	4	bcbc	bcbc	b	bbc
Plymouth	1029.0	+12	ENE	3	z	46	75	6	1	-	-	Tr	Tr	3000	0	2	b	bcb	bm.	bmobx
The Lizard	1029.0	+2	ENE	5	bc	48	65	8	8	-	-	4-6	4-6	2000	0	4	bc	bc	bc	bc
Scilly (St. Mary's)	1028.4	+2	ENE	4	bc	47	65	8	8	-	-	4-6	4-6	1800	0	4	bcbbc	bc	bcb	bba
Guernsey																				
Pembroke	1031.2	0	NE	4	bc	47	85	8	2	1	-	2-3	2-3	3000	0	2	bc	bc	bc	bbcm.
Holyhead (Valley)	1032.6	-2	N	1	b	45	75	7	4	-	-	1	1	3000	0	2	bbc	bcb	bbcw	bcw/
Chester (Sealand)	1033.0	+2	NE'N	1	m	39	92	4	4	-	-	1	1	3000	0	*	bbcz	bczbmw	bmfwx	bfbcbmx
Manchester	1032.7	+2	N'E	1	m	42	85	4	4	-	-	2-3	2-3	2900	1	*	bmbc	bbcmzm	bmmow	bmowx
Spurn Head	1031.0	-2	N	5	c	49	75	7	4	4	-	4-6	7-8	4000	0	4	c	c	bc.	bcc
Catterick	1033.3	0	N'W	2	m	46	97	4	8	3	-	4-6	4-6	1500	1	*	bzbc	bmzbcm	bcmbmo	cmow
Tynemouth	1033.4	+6	NE	5	c/pr	48	92	7	8	-	-	7-8	7-8	2200	1	5	bcpc	cbccp	cbc	bcmp
St. Abbs Head	1034.5	+8	NNE	3	c	48	75	8	8	4	-	4-6	7-8	2000	1	3	cqcprr	prc	cprc	bcprc
Leuchars	1035.8	-6	NNE	2	c	47	85	8	5	-	-	9+	9+	2500	1	*	cbc	bcc	cbc	bcbx
Renfrew (Abbots I.)	1035.8	+2	-	0	z	42	85	6	5	-	-	9	9	4500	0	*	bxbcz	czccm	cmobm	bmofx
Eskdalemuir	1035.0	+4	-	0	bc	42	85	8	5	-	-	2-3	2-3	1500	1	*	bbc	cid/c	bc	bccpr.
Point of Ayre	1034.0	-6	E'N	3	bc	49	65	8	4	5	-	2-3	2-3	3000	0	3	bcb	bbc	bcb	bbc
Tiree	1035.3	-2	SES	1	b	40	75	9	1	-	-	Tr	Tr	3900	0	1	b	b	b	bbc
Stornoway	1035.5	0	SSW	2	b	43	85	8	1	4	-	Tr	1	3500	1	2	cbc	bc	bc	bcc
Dalwhinnie	1037.4	0	-	0	c	41	85	8	5	-	-	9+	9+	2500	0	*	bc	c		bc
Aberdeen	1036.8	+12	N'W	2	bc	45	85	7	8	3	-	4-6	4-6	1900	1	2	cbcprc	cbc	bcb	bbcx
Wick	1037.0	+4	NW	2	c	44	75	9	5	-	-	9+	9+	3000	1	*	cv	cvc	c,bx	bx
Sumburgh	1036.4	0	NE	1	c	43	75	9	5	-	-	9+	9+	2500	1	7	c	c	bcc	c
Blacksod Point	1031.8	+2	SE'E	4	b	48	75	8	-	-	-	0	0	-	0	4	b	b	b	b
Malin Head	1034.5	0	ESE	2	b	43	75	8	-	-	-	0	0	-	0	3	bc	bc	bc	bc
Aldergrove	1035.2	+4	ESE	1	b	39	85	6	1	-	-	1	1	3500	1	*	bbc	bcb	bzobmox	bmobcx
Birr Castle	1032.4	+4	SE	1	b	41	85	8	-	-	-	0	0	-	1	*	bbc	b	*	b
Valentia Obsy. †	1029.3	+24	ESE	5	b	47	65	9	5	-	1	1	1	4000	1	4	bbvy	bvybv	bvb	bbw
Roches Point	1030.8	+2	NE'N	5	bc	48	65	9	5	-	-	4-6	4-6	2500	1	5	cbcy	bc	bc	bbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 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.

† See disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually 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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

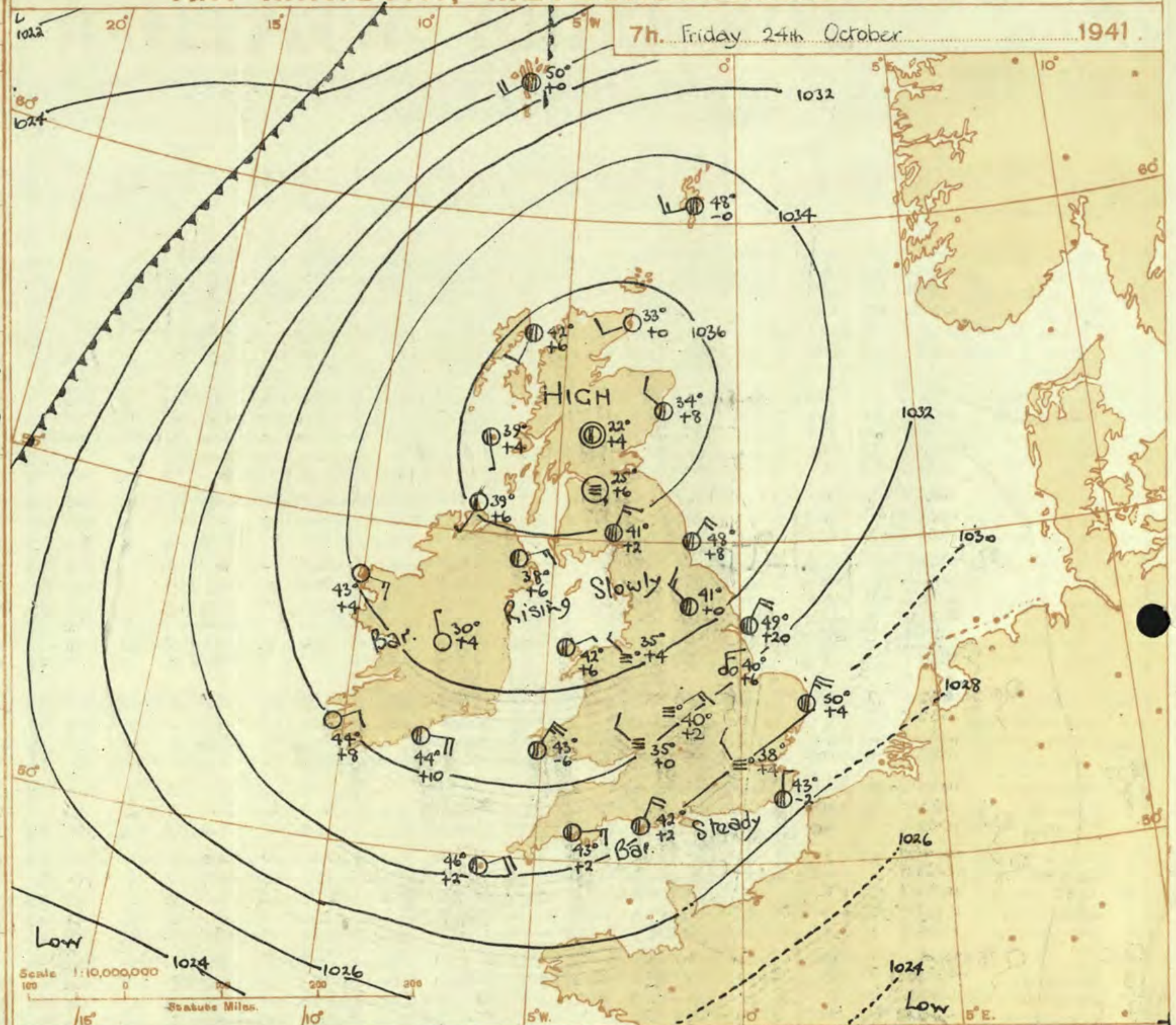
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 24th October 1941.

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 23rd October $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 24th October $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	5-	02968	00028	5-	02857	00027	50	01753	18313	52	02854	19325
115	54	02944	18225	54	01953	16224	54	01953	20314	52	02944	20326
203	50	00841	14301									
206	5-	02967	26127	5-	00963	32123	50	00862	30202	04	00990	20203
210	8-	25958	04288	5-	51858	15258	50	00961	18111	50	00962	19202
220	53	01953	12304	40	00852	15202				50	02856	23316
230				40	00862	00002				54	05621	00004
245	86	10957	32417	8-	10967	01327	50	00961	24111	54	00961	22103
260	70	01964	04384	5-	02767	02217	5-	02766	00026			
278	10	00853	08403	40	00751	23101	00	00890	17100	50	00861	00001
279	20	00853	04313	5-	02856	02316	00	00790	00010	50	04644	08114
285	10	01854	08514							5-	51638	04258
288	10	01854	02414	4-	47345	01244	50	05553	02483	86	47345	30286
575	10	01853	08303	00	00890	08300	00	00790	08100	00	05690	00000
301	20	01754	04214	04	47290	05141	50	05661	04141	50	05661	04303
321	26	01854	03484	50	02765	32215	00	05690	02300	84	10654	02214
299				50	22743	32583	50	01743	04683	8-	81844	04584
292	10	01964	01284	57	01754	00014	40	00762	31302	53	05562	28312
310	--	05644	32514	--	01634	26414				--	01634	32414
314	86	05764	37415	40	05553	02213	50	05662	32402	57	05653	02413
333	1-	01854	08304	00	17690	02210	00	00790	00000	50	00851	00001
334	--	05544	04215	--	05454	10315				--	04464	00015
340	20	17564	32214	03	05690	01111	00	08490	28103	00	47190	31140
136	80	02855	03485	40	01954	03414	40	01863	04383	86	25845	05386
336	14	01763	04414							51	02762	04328
350	80	01753	02414	46	05653	02304	50	05662	32212	80	05653	32243
368	20	01753	06403	00	05690	06300	04	05690	00001	50	05662	04302
379	20	01845	04415	50	00752	02302	50	05652	32302	5-	47318	02418
390	36	01863	02404	00	00790	01210	50	05662	32312	80	05653	01283
382	80	02855	04315	44	05661	01201	50	05663	30403	08	05690	32301
438										80	01754	02414
430	10	05661	02201	00	05690	06300	50	05651	04401	80	05662	01402
400	10	00852	04302	24	05652	06202	00	05690	05400	50	05751	04301

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



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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 24th October, 1941
1 S.E. England 2 E. England 3 E. Midlands	Light or moderate N.E. wind, fresh locally on East Coast; mainly fair, but local showers near East Coast; cold; ground frost at night.
4 W. Midlands	As 6-9.
5 S.W. England 6 South Wales	Light N.E. wind; fine; rather cold; ground frost at night.
7 North Wales 8 N.W. England 9 N. Midlands	Light N.E. wind; fair or fine; frost and fog locally at night
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13A. W. Scotland	Light variable wind; fine during day; frost and local fog at night.
13B. N.W Scotland	As 15-16
14 Mid Scotland	As 10-13A.
15 N.E. Scotland 16 Orkneys and Shetlands	Light S.W. wind; fair, but cloud increasing; becoming rather mild.
17 N.W. Ireland 18 N.E. Ireland	As 10-13A.
19 S.E. Ireland 20 S.W. Ireland	As 6-9.

GENERAL INFERENCE.

An anticyclone centred over Scotland is moving slowly south. Weather will be mainly fair, but there will be local showers in Eastern England. There will be local fog in Northern districts and the West Midlands this morning and again tonight.

FURTHER OUTLOOK.

Cloudy, with occasional rain in the extreme Northwest; fair or fine over most of the country, but with local fog and night frost.

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.

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 24th October

1941.

Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T. ; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 24th October 1941.

No. 29,191

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1029·5	-2	N'W	2	Zo	40	97	6	5	-	-	1	1	2500
	S. Farnborough	226	1030·5	0	WNW	1	Zo	36	92	6	5	-	-	4·6	4·6	5700
	Boscombe Down	417	1030·9	+4	N	4	bc	39	85	8	5	-	-	4·6	4·6	3000
	Thorney Island	10	1029·8	-4	N	2	b	40	85	7	5	-	-	Tr	Tr	4000
	Lympne ...	346	1028·5	+6	NNE	1	bc	38	97	7	3	-	3	2·3	2·3	2000
	Manston ...	154	1027·9	-2	N'W	3	bc/pr	45	92	8	2	-	-	4·6	4·6	2200
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1028·2	+2	N'W	2	pr	43	85	8	3	-	3	4·6	4·6	2000
	Gorleston ...	5	1028·9	+4	NE	6	Zo	47	92	6	8	-	-	4·6	4·6	1500
	Mildenhall ...	19	1030·1	+3	N'W	2	b	37	97	7	-	-	-	0	0	-
	Cranwell ...	240	1032·0	+6	N'W	3	Zo	40	97	5	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1031·0	0	NNW	3	Zo	36	97	5	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1031·0	+10	ENE	4	b	45	85	7	-	-	-	0	0	-
	Bristol ...	209	1032·0	-2	NE	1	bf	35	97	3	-	-	-	0	0	-
	Portland Bill ...	32	1029·7	+4	NE	3	b	44	85	8	-	-	-	0	0	-
	Plymouth ...	82	1030·6	+6	E	2	Zo	43	75	6	5	-	-	Tr	Tr	4000
	The Lizard ...	240	1029·7	+4	ENE	5	bc	48	85	8	8	-	-	2·3	2·3	2500
	Scilly (St. Mary's)	163	1029·5	+6	E	4	b	48	75	7	-	-	-	0	0	-
	Guernsey ...	175														
6	Pembroke ...	142	1033·2	+14	ENE	5	bc	44	85	7	7	-	-	2·3	2·3	4000
7	Holyhead (Valley	26	1033·7	-2	NE'E	1	bc	42	85	6	5	-	-	4·6	4·6	2500
	Chester (Sealand)	16	1034·1	+2	-	0	bf	36	92	3	-	-	-	0	0	-
8	Manchester ...	235	1033·8	+2	N'E	2	Zo	41	97	6	5	-	-	1	1	4000
10	Spurn Head ...	29	1031·7	-6	NE'E	4	bc	49	65	7	1	-	-	2·3	2·3	4000
	Catterick ...	175	1034·8	+8	NNW	2	Zo	43	85	5	5	-	-	9	9	2800
	Tynemouth ...	108	1034·4	+6	N	5	bc	48	85	7	2	-	-	2·3	2·3	1500
11	St. Abbs Head	280	1035·0	+2	NNE	2	bc	46	85	8	5	4	-	4·6	4·6	2500
	Leuchars ...	36	1036·3	+2	W	1	bc	39	92	7	-	4	-	0	2·3	-
12	Renfrew (Abbotsl.)	19	1036·7	+4	W	1	m	33	97	4	-	-	-	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1035·0	+4	E	4	b	48	85	8	4	-	-	1	1	2000
13A	Tiree	22	1035·3	0	SE:S	1	b	39	88	7	-	4	-	9	Tr	*
13B	Stornoway ...	80	1035·3	-4	SW	2	b	38	92	7	1	4	-	Tr	1	3500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1036·7	+2	W	1	b	33	92	7	5	-	-	1	1	3500
16	Sumburgh ...	30	1035·9	+2	W	2	c	45	85	8	5	-	-	9	9	3000
17	Blacksod Point	18	1033·9	+8	SE	5	b	45	75	8	-	-	-	0	0	-
18	Malin Head ...	84	1035·6	+10	S	1	b	40	85	8	-	-	-	0	0	-
	Aldergrove ...	268	1035·8	0	E	1	b	38	97	7	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1031·4	+10	E	4	b	47	65	9	1	-	-	Tr	Tr	4000
	Roches Point	22	1032·3	+8	E	5	bc	49	65	8	5	-	-	2·3	2·3	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1030·4	+4	NNE	2	Zo	41	85	6	5	-	-	2·3	2·3	2500	1	*
Croydon ...	1029·7	+4	NNW	2	m	38	97	4	5	4	-	1	2·3	2000	1	*
S. Farnborough	1030·4	+2	NNE	2	b	34	97	6	5	-	-	Tr	Tr	5000	1	*
Boscombe Down	1030·9	+2	N	3	Zo	38	97	6	-	-	-	0	0	-	0	*
Thorney Island	1029·5	0	N'E	2	b	38	92	7	5	4	-	Tr	Tr	2500	0	*
Lympne ...	1028·0	-2	N	2	c/pr	43	92	8	2	-	-	9	9	2000	1	§ 3
Manston ...	1028·2	+6	NE'N	3	pr	45	85	7	8	6	-	7·8	7·8	1500	1	*
Shoeburyness ...	1029·3	+2	N'E	3	pr	42	92	8	9	-	-	4·6	7·8	1100	1	*
Felixstowe ...	1028·8	+4	N'E	3	c	41	92	7	5	-	-	9	9	2000	1	2
Gorleston ...	1030·5	+4	NE'N	5	c	50	55	7	8	-	-	4·6	4·6	2000	1	4
Mildenhall ...	1031·0	+6	N'E	2	bc	42	92	8	8	-	-	4·6	4·6	2500	1	*
Cranwell ...	1032·8	+6	N	3	Zo	40	85	6	2	-	-	Tr	Tr	2500	1	*
	1032·7	+2	NE	3	m	40	97	4	-	-	-	0	0	-	1	*
Upper Heyford	1031·5	+6	NW'N	3	bF+	34	97	1	-	-	-	0	0	-	1	*
Ross-on-Wye	1032·9	0	NW	2	fg	35	97	5	-	-	1	0	Tr	-	1	*
Hartland Point	1030·8	0	E	4	bc	46	85	7	4	-	-	4·6	4·6	2500	0	3
Bristol ...	1032·2	+2	NNE	2	m	37	97	4	5	-	-	2·3	2·3	200	0	*
Portland Bill ...	1029·4	+2	NNE	4	bc	42	85	8	5	-	-	2·3	2·3	2500	0	4
Plymouth ...	1030·4	+2	E	3	Zo	43	85	6	5	-	-	2·3	2·3	2500	0	3
The Lizard ...	1030·3	+2	NE	4	bc	42	75	8	8	-	-	4·6	4·6	2500	0	2
Scilly (St. Mary's)	1030·4	+2	E'N	4	bc	46	75	8	8	-	-	2·3	2·3	2000	0	4
Pembroke ...	1032·9	-6	NE	5	bc	43	85	7	4	-	-	2·3	2·3	3000	0	3
Holyhead (Valley	1034·1	+6	ENE	1	bc	42	92	8	5	-	9	4·6	4·6	2500	1	1
Chester (Sealand)	1034·4	+4	NW	1	m	35	92	4	-	4	5	0	2·3	-	0	*
Manchester ...	1034·5	+10	NNW	2	Zo	38	92	6	-	4	-	0	2·3	-	1	*
Spurn Head ...	1033·7	+20	NNE	4	c	49	75	7	4	-	-	9+	9+	4000	0	4
Catterick ...	1035·2	0	NW'N	3	c	41	92	7	5	4	-	9	9+	2500	1	*
Tynemouth ...	1034·8	+8	NE	4	c/pr	48	75	8	8	-	-	9	9	1800	1	4
St. Abbs Head	1036·2	+4	N	3	c	46	75	9	5	2	-	7·8	10	2500	0	3
Leuchars ...	1037·0	+2	NW	2	bc	31	85	7	2	-	-	2·3	2·3	3500	0	*
	1037·6	+6	-	0	F-	25	97	1	-	-	-	10	10	4150	0	*
Eskdalemuir ...	1036·4	+2	NNE	3	c	41	92	7	5	-	-	7·8	7·8	1500	1	*
Point of Ayre...	1035·6	+6	E	4	bc	47	85	8	2	-	-	4·6	4·6	3000	0	4
Tiree	1035·6	+4	S'E	1	bc	39	92	8	5	-	-	4·6	4·6	3500	0	2
Stornoway ...	1036·5	+6	SSW	2	c	42	92	8	5	7	-	4·6	9+	2500	1	1
Dalwhinnie ...	1034·8	+4	-	0	bc	22	97	8	-	4	5	0	2·3	-	3	*
Aberdeen ...	1037·5	+8	NW	2	bc	34	97	6	5	3	-	4·6	4·6	3800	1	2
Wick ...	1036·9	0	WSW	2	b	33	85	9	5	4	1	Tr	1	3000	1	0
Sumburgh ...	1035·2	0	W'S	3	c	48	85	8	5	-	5	4·6	7·8	3000	1	2
Blacksod Point	1034·3	+4	E'S	3	b	43	85	8	-	-	-	0	0	-	0	3
Malin Head ...	1036·2	+6	SSW	1	bc	39	92	8	4	-	-	2·3	2·3	5700	0	2
Aldergrove ...	1036·5	+6	ENE	3	be	38	97	7	5	4	-	2·3	4·6	2000	1	*
Birr Castle ...	1034·4	+4	NNW	1	b	30	97	8	-	-	-	0	0	-	1	*
Valentia Obsy.	1032·1	+8	ENE	2	b	44	85	8	5	-	1	1	1	2500	1	2
Roches Point	1033·0	+10	E	4	bc	44	75	8	5	-	-	2·3	2·3	2500	1	4

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine Hrs. (36)
London (Kew)	52	38	29	-	-	8·6
Croydon ...	52	37	33	-	Tr	7·5
S. Farnborough	53	33	25	-	-	8·4
Boscombe Down	59	37	31	-	-	8·7
Thorney Island	52	37	27	-	-	*
Lympne ...	52	38	34	7	7	6·5
Manston ...	53	42	38	7	4	2·3
Shoeburyness ...	55	39	31	0·2	3	5·0
Felixstowe ...	54	40	37	2	5	5·5
Gorleston ...	53	47	40	0·2	2	*
Mildenhall ...	54	36	28	0·1	Tr	7·5
Cranwell ...	51	36	34	0·1	Tr	4·4
Birmingham ...	50	38	30	-	-	6·8
Upper Heyford	51	33	33	Tr	-	*
Ross-on-Wye	49	35	28	-	-	4·0
Hartland Point	49	44	41	-	-	7·6
Bristol ...	50	35	23	-	-	7·0
Portland Bill ...	52	39	*	-	-	*
Plymouth ...	51	39	29	-	-	8
The Lizard ...	51	40	*	-	-	8·8
Scilly (St. Mary's)	53	45	*	-	-	8·8
Pembroke ...	52	41	*	-	-	8·9
Holyhead (Valley	51	39	29	-	-	*
Chester (Sealand)	51	33	26	-	-	5·3
Manchester ...	51	35	27	-	-	*
Spurn Head ...	52	39	*	-	0·4	6·6
Catterick ...	51	41	35	0·6	0·6	6·8
Tynemouth ...	50	46	44	1	0·3	*
St. Abbs Head	48	44	*	5	1	*
Leuchars ...	52	31	26	-	-	3·1
	48	26	22	-	-	3·3
Eskdalemuir ...	43	36	32	-	0·1	6·0
Point of Ayre...	50	46	*	-	-	7·7
Tiree	50	37	*	-	-	9·0
Stornoway ...	48	38	*	-	-	8·5
Dalwhinnie ...	48	19	13	-	-	4·6
Aberdeen ...	49	34	29	0·2	-	3·6
Wick ...	49	31	28	-	-	*
Sumburgh ...	45	41	38	-	-	0·0
Blacksod Point	51	42	*	-	-	*
Malin Head ...	50	37	*	-	-	4
Aldergrove ...	50	32	27	-	Tr	7·6
Birr Castle ...	53	29	25	-	-	7·6
Valentia Obsy.	53	44	38	-	-	8·5
Roches Point	53	44	*	-	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	bzowbc	bczoybzo	bmbcmw	52	38	29	-	-	8·6	*	*	6
Croydon	217	bmbczo	bcybzo	bmwcmo	52	37	33	-	Tr	7·5	*	*	4
Greenwich (Royal Observatory)...	149	by	by	bxmo	53	38	28	-	-	7·9	53	74	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	54	42	40	-	-		61	81	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*									*
Camden Square	110	b	bc	*	55	40	35	-	-	*	*	80	*
Kensington	80	bbc	bc	*	53	40	31	-	-		71	75	*
Hampstead Observatory	450	bc	b	bc	50	38	35	-	-		*	78	*

FOREIGN OBSERVATIONS.

Evening of 23rd October ..... Morning of 24th October .....

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	1007·7	SSW	5	c/r	49	1017·3	SSW	4	c/pr	41
Lisbon (18h and 07h)						1013·4	NW	5	o	59
¶Madrid (18h and 07h)										
Cairo (Heliopolis) (18h and 06h)	1015·9	NE	3	b	72					
Toronto (13h and 01h)										
Washington (13h and 01h)										

Past 24 Hours.	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Reykjavik (18h and 07h)	*	*	*	*
Lisbon (18h and 07h)				
¶Madrid (18h and 07h)				
Cairo (Heliopolis) (18h and 06h)	82		-	
Toronto (13h and 01h)				
Washington (13h and 01h)				

¶Pressure at 1,000 dynamic metres level.

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

§ Sea disturbance reported from Dungeness.

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·2	18-20h 23rd	0·1	0-6h 24th

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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

Page 1.

THE DAILY WEATHER REPORT

AIR MINISTRY. — OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

Saturday 25th October 1941.

No 29,132

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1030·6	0	ESE	4	c	51	55	6	8	3	-	4-6	7-8	2500
	Croydon	1030·0	+2	ESE	4	c	48	55	7	2	3	-	7-8	9	4200
	S. Farnborough	1030·3	-6	ESE	4	c	52	55	7	8	3	-	4-6	7-8	3500
	Boscombe Down	1030·8	-4	ESE	4	bc	51	55	9	2	-	-	4-6	4-6	3000
	Thorney Island	1029·8	0	ESE	3	bc	52	65	7	8	3	-	4-6	4-6	4000
	Lympne	1028·9	-2	ESE	3	c/pc	48	65	8	2	6	-	7-8	9	2500
	Manston	1026·4	+4	ESE	4	c/pc	49	65	8	8	-	-	9+	9+	1500
2	Shoeburyness	1029·9	0	ESE	3	bc	51	75	8	8	4	-	2-3	4-6	2200
	Felixstowe	1029·8	0	ESE	4	pc	48	85	8	-	9	-	9	9	1500
	Gorleston	1031·0	+2	ESE	4	c/pc	45	92	7	8	-	-	7-8	7-8	1500
	Mildenhall	1031·6	+2	ESE	3	c	50	85	8	3	4	-	4-6	7-8	2500
	Cranwell	1033·1	0	ESE	2	c/pc	49	85	7	3	-	-	7-8	7-8	1800
3	Birmingham	1033·2	-2	ESE	3	c	48	75	9	8	-	-	7-8	7-8	2500
	Upper Heyford	1031·7	-6	ESE	3	bc	51	65	7	2	3	-	1	2-3	2200
4	Ross-on-Wye	1032·7	0	ESE	3	c	48	75	5	8	-	-	9+	9+	3000
5	Hartland Point	1031·5	-4	ESE	4	bc	50	65	8	2	-	-	2-3	2-3	2500
	Bristol	1032·3	-6	ESE	4	c	48	75	6	2	6	-	2-3	2-3	3000
	Portland Bill	1029·1	-6	ESE	4	c	53	75	8	2	-	-	7-8	7-8	4000
	Plymouth	1030·0	-6	ESE	3	bc	52	65	7	-	-	-	2-3	2-3	2000
	The Lizard	1030·3	0	ESE	5	bc	52	65	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1031·1	0	ESE	4	bc	54	65	8	-	-	-	2-3	2-3	2200
	Guernsey														
6	Pembroke	1033·2	0	ESE	5	bc	51	85	8	2	-	-	2-3	2-3	3000
7	Holyhead (Valley)	1035·2	+2	ESE	5	c	52	65	8	2	6	-	7-8	7-8	2500
	Chester (Sealand)	1035·2	0	ESE	2	c	50	75	5	5	-	-	7-8	7-8	2500
8	Manchester	1034·8	-2	ESE	2	c	47	85	5	5	-	-	9	9	2000
10	Spurn Head	1033·4	0	ESE	5	bc	51	65	7	2	4	-	4-6	4-6	4000
	Catterick	1036·9	-2	ESE	3	c	48	85	8	8	-	-	7-8	7-8	2800
	Tynemouth	1035·6	-2	ESE	5	c/pc	48	65	8	8	-	-	9	9	2400
11	St. Abbs Head	1036·9	0	SE	5	c	47	65	9	5	4	+	7-8	9	3000
	Leuchars	1037·8	-4	SE	6	bc	48	75	7	5	-	-	7+	1	1500
12	Renfrew (Abbotsl.)	1037·6	-6	-	0	bf+	45	85	2	-	-	-	0	0	-
	Eskdalemuir	1036·9	+2	ESE	6	c	45	75	8	5	-	-	7-8	7-8	2500
	Point of Ayre	1036·7	+2	E'N	4	c	50	65	8	7	-	-	7-8	7-8	3000
13A	Tiree	1036·4	0	SW	1	bc	50	85	8	5	-	-	4-6	4-6	2800
13B	Stornoway	1036·2	-6	WSW	3	c	52	75	8	5	4	5	2-3	9	2500
15	Dalwhinnie	1038·5	+2	-	0	bc	44	65	8	-	-	5	0	4-6	-
	Aberdeen	1037·6	-2	NW	2	bc	49	65	8	7	-	1	1	2-3	3500
	Wick	1037·2	-2	S	2	bc	50	65	9	5	-	2	7+	4-6	3500
16	Sumburgh	1035·2	-2	WSW	4	c	54	65	9	5	-	-	10	10	3000
17	Blacksod Point	1036·3	+2	ESE	2	bc	53	75	7	-	-	2	0	2-3	-
18	Malin Head	1037·3	+2	-	0	c	54	65	8	2	-	1	4-6	7-8	5700
	Aldergrove	1037·7	+2	-	0	c	51	75	8	7	-	1	7-8	7-8	3000
19	Birr Castle	1035·7	+2	ESE	1	bc	51	75	8	2	-	-	2-3	2-3	2500
20	Valentia Obsy. †	1034·0	+6	E'S	3	b	54	55	8	1	-	-	7+	7+	2500
	Roches Point	1034·4	+2	E'N	4	c	52	65	8	7	-	-	7-8	7-8	2500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0–12 (18)	Weather. (19)	°F. Temp. (20)	°F. Humid. (21)	Visibility. 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. (29)	Sea. 0–9 (30)
1	London (Kew)	1031·5	+8	NNE	3	ir.	46	85	4	5	-	+	9+	9+	2500	1	*
	Croydon	1030·5	+4	NNE	2	-	46	75	4	5	-	-	9+	9+	4000	1	*
	S. Farnborough	1031·5	+8	NNE	3	c	45	85	6	-	3	-	0	9	-	1	*
	Boscombe Down	1031·8	+12	NNE	3	bc/pc	43	92	7	4	6	-	2-3	2-3	2500	1	*
	Thorney Island	1030·7	+8	NNE	1	c	45	85	7	5	-	-	7-8	7-8	4000	0	*
	Lympne	1029·7	+6	NNE	1	-	45	85	7	2	-	-	7-8	7-8	3000	1	*
	Manston	1030·4	+10	NNE	4	c	48	65	8	8	-	-	9+	9+	3500	1	*
2	Shoeburyness	1030·8	+6	NNE	3	c/pc	44	85	7	8	-	-	7-8	7-8	2500	1	*
	Felixstowe	1029·8	+2	NNE	3	c/pc	45	85	8	8	-	-	7-8	7-8	1500	1	3
	Gorleston	1031·2	+6	NNE	4	bc/pc	50	65	6	8	-	-	4-6	4-6	2000	1	5
	Mildenhall	1032·2	+6	NNE	2	bc	42	97	8	8	-	-	7-8	7-8	2400	1	*
	Cranwell	1033·2	+2	NNE	2	c	45	85	7	8	6	-	7-8	7-8	1500	1	*
3	Birmingham	1033·9	+2	NNE	3	c	46	75	5	5	-	-	9	9	2500	1	*
	Upper Heyford	1032·7	+12	NNE	3	bc	43	92	7	9	4	-	7-8	7-8	2000	1	*
4	Ross-on-Wye	1032·8	+4	NNE	3	c	47	75	5	5	-	-	9+	9+	3000	0	*
5	Hartland Point	1031·8	+6	NNE	4	c	50	75	7	2	4	-	4-6	7-8	2000	0	3
	Bristol	1032·6	+6	NNE	3	c	46	75	5	5	3	-	4-6	7-8	3000	0	*
	Portland Bill	1030·2	+12	NNE	4	bc	48	85	8	2	-	-	4-6	4-6	4000	0	4
	Plymouth	1031·1	+8	NNE	3	b	48	75	6	4	-	-	1	1	3500	0	3
	The Lizard	1031·6	+16	NNE	4	bc	48	75	8	8	6	-	4-6	4-6	2500	0	3
	Scilly (St. Mary's)	1031·3	+2	NNE	4	bc	50	65	8	1	+	-	9-6	4-6	2200	1	4
	Guernsey																
6	Pembroke	1033·6	+2	NNE	4	bc	47	85	8	8	-	-	4-6	4-6	3000	0	3
7	Holyhead (Valley)	1035·0	+22	NNE	2	bc	47	75	8	8	-	-	4-6	4-6	2500	0	2
	Chester (Sealand)	1035·1	+2	NNE	2	-	45	85	5	5	-	-	7-8	7-8	4500	0	*
8	Manchester	1035·2	+6	NNE	2	-	44	85	4	5	-	-	4-6	9	3500	1	*
10	Spurn Head	1034·1	+2	NNE	4	c/pc	50	75	7	8	-	-	7-8	7-8	4000	0	3
	Catterick	1036·2	-4	NNE	3	-	45	85	5	5	-	-	10	10	2200	1	*
	Tynemouth	1036·0	+4	NNE	4	c	49	75	8	8	-	-	9+	9+	2500	1	4
11	St. Abbs Head	1037·1	+4	NNE	3	c	46	65	5	5	4	-	7-8	9	2500	1	2
	Leuchars	1037·6	0	-	0	b	39	92	6	8	-	1	7+	1	2200	0	*
12	Renfrew (Abbotsl.)	1037·5	+2	-	0	b+	37	92	2	-	-	-	0	0	-	1	*
	Eskdalemuir	1037·5	+6	NNE	2	c	41	85	7	5	-	-	9	9	2500	1	*
	Point of Ayre	1036·7	+6	E	4	c	50	65	8	8	-	-	9+	9+	5000	0	4
13A	Tiree	1036·9	+4	-	0	b	42	85	8	1	-	-	1	1	3500	0	2
13B	Stornoway	1036·6	+2	SW	2	c	48	75	8	5	7	-	7-8	10	2500	0	1
15	Dalwhinnie	1039·3	-4	-	0	b	30	85	8	-	-	4	0	7+	-	8	*
	Aberdeen	1037·8	+2	NNW	1	b+	40	85	2	-	-	1	0	7+	-	1	2
	Wick	1037·0	-2	W	1	c	44	85	9	5	-	-	9+	9+	3500	1	*
16	Sumburgh	1034·8	-2	WNW	3	c	51	85	8	5	-	-	10	10	2500	1	3
17	Blacksod Point	1036·9	+8	E	2	b	49	85	8	-	-	-	0	0	-	0	1
18	Malin Head	1037·6	+6	-	0	bc	49	75	8	4	-	-	4-6	4-6	5700	0	3
	Aldergrove	1038·0	+6	-	0	b	42	85	7	8	4	1	7+	1	4000	1	*
19	Birr Castle	1036·2	+6	ESE	1	bc	45	85	8	+	4	-	0	2-3	-	1	*
20	Valentia Obsy. †	1035·0	+10	E'N	2	b	46	75	8	6	-	-	7+	7+	2500	1	2
	Roches Point	1035·0	+6	E'N	3	bc	48	75	8	5	-	-	2-3	2-3	2500	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 24th (37)	Weather. 13h.—18h. 24th (38)	Weather. 18h. 24th to 1h. 25th (39)	Weather. 1h.—7h. 25th (40)
1	London (Kew)	cbcec	cprir.	cir.rm.	cm.crm.
	Croydon	bbcbc	cycbd	cm.ir.	ir.id.
	S. Farnborough	bmbc	cybbpbc	cm.ir.c	m.id.c
	Boscombe Down	bm	bcjp	b,bm,bcm.	cm.bcm.
	Thorney Island	bbc	bcc	bcm.	ir.cm.
	Lympne	pr	e	cprm.c	cprc
	Manston	cprpr	cpbc	cprbc	cpr.
2	Shoeburyness	prhbc	bccpr	bccphm.	prirc
	Felixstowe	pnqpr	cpr	cprq	cpr.id.
	Gorleston	pr	bcprbc	bccpr	cbccpr
	Mildenhall	pcbc	bcprkqc	bcbbc	bccpr.
	Cranwell	bmcpr	cpr.	b,cmpr	b,cm.ir.
3	Birmingham	bcc	bc	bcc	cbbcpr.
	Upper Heyford	bcm	bcpr	pr.bcm.	bcrm.
4	Ross-on-Wye	bzbcc	cz	czbm.cm.	cm.
5	Hartland Point	bc	bcc	cbcb	bc
	Bristol	bcbmm	bccm	bmfm	bbcmw
	Portland Bill	bcc	cbc	bcc	c
	Plymouth	bbc	bcbcy	bmc	bmcw
	The Lizard	bc	bc	bc	bc
	Scilly (St. Mary's)	bcy	bc	bcbbc	bcbbc
	Guernsey				
6	Pembroke	bc	bc	bmc	bcmc
7	Holyhead (Valley)	nbcc	cbc	cmc	c
	Chester (Sealand)	bmcm	ncc	cm,bfx	bbcmx
8	Manchester	cmm	cmcm	bcmmcw	bcmc.mw
10	Spurn Head	c	c	bc	cp
	Catterick	pncmc	ccm	cmcmc	cmcc
	Tynemouth	cp	c	cc	cc
11	St. Abbs Head	c	c	cbc	cbcc
	Leuchars	cmbmb	bbm	bmcx	bmcbcx
12	Renfrew (Abbotsl.)	bFbcf	bPbbf	bFFFF	bFF.cF
	Eskdalemuir	cbcc	c	bcx	bc
	Point of Ayre	c	c	cbcc	bcb
13A	Tiree	bcbc	bcb	bc	bbcc
13B	Stornoway	c	c	c	c
15	Dalwhinnie	bc	bc		co
	Aberdeen	bcnb	bbzfb	bbz	bzcx
	Wick	bbc	bcc	co	o
16	Sumburgh	c	c	c	c
17	Blacksod Point	bc	b	b	bc
18	Malin Head	c	bc	bc	c
	Aldergrove	bcxab	b	bmcx	bmcx.cm.
19	Birr Castle	cbc	bc	r	bcx
20	Valentia Obsy. †	bmbby	byb	bw	bxbwb
	Roches Point	bcc	bc	b	c

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.

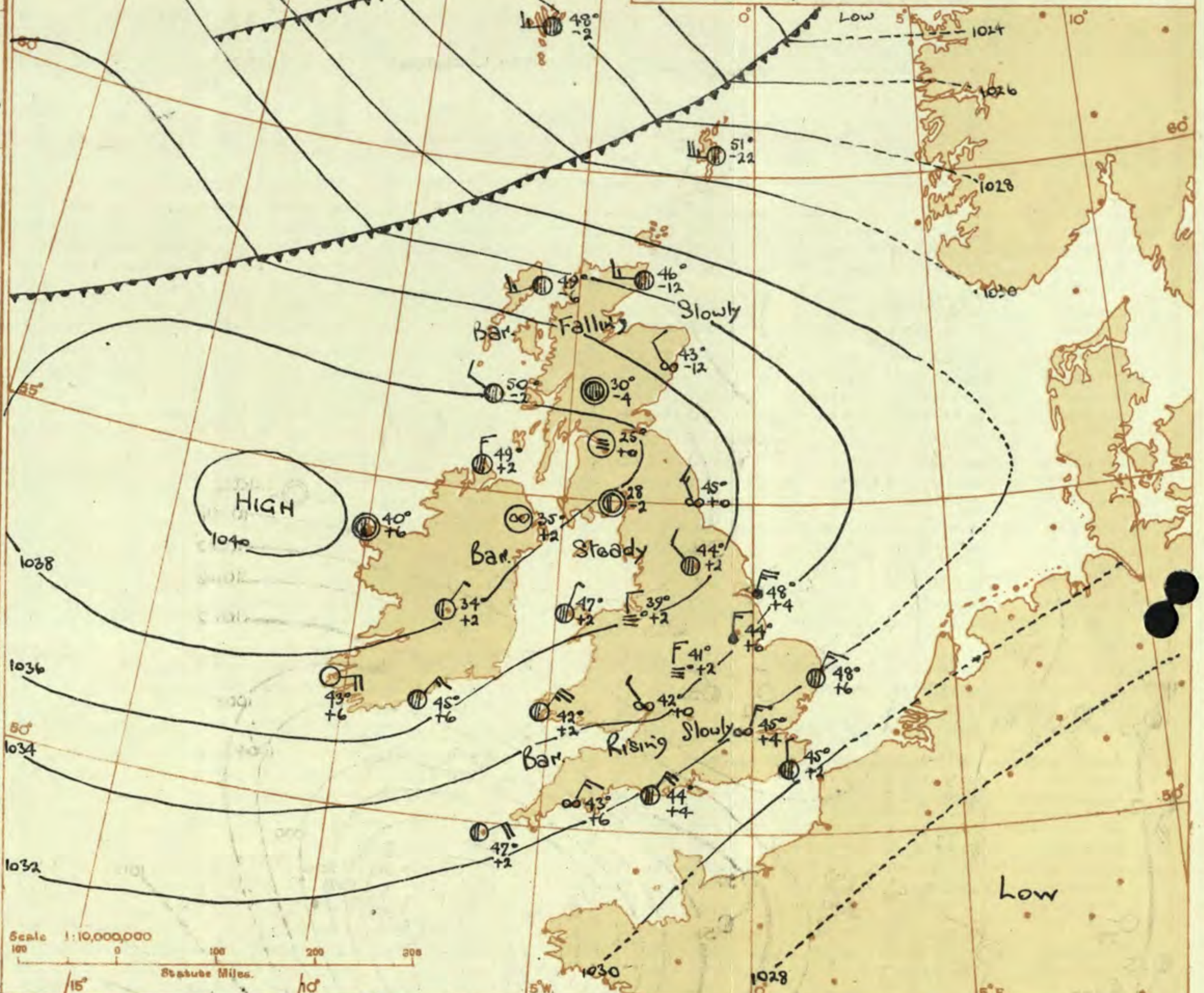
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 25th October 1941.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 24th October			18h. G.M.T.			01h. G.M.T. 25th October			07h. G.M.T.	
III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	5-	02754	21324	5-	02757	22327	5-	03758	22428	5-	02866	24426
115	57	02844	24326				57	02844	24427	57	02844	24427
203				70	02946	24316						
206	07	01990	22113	53	02763	00025	5-	01765	24215	5-	02867	22227
210	00	01990	00014	50	01863	00013	5-	02865	20325	51	02966	21328
220	40	01962	21102	50	01854	00004				52	03854	26228
230	10	01861	00013	07	00890	00012	50	01665	00005	50	01674	00014
245	50	01963	10114	50	04861	28201	50	00752	24302	50	02962	23216
260	10	00862	06102	00	05590	00011	00	08490	00000	00	05590	00002
278	4+	02855	30215	50	00761	06312	00	05690	00000	5-	05565	00015
279	5-	02967	04327	5-	02867	04227	5-	027*5	30225	57	02861	31115
285	5-	02857	32327	5-	03748	32228						
288	5-	21848	02458	5-	05658	03328	5-	05558	32228			
575	20	01743	10314	40	00851	08111	00	00790	00010	57	01762	32114
301	4-	05665	04345	5-	05567	04327	50	05662	04202	5-	05668	04228
321				50	02755	32315	5-	05664	29384	5-	25658	28388
299	8-	25857	04487	8-	82757	04587	8-	02754	04614			
292	5-	02857	02317	57	02854	32326	5-	05668	30328	5-	05658	28328
310	--	01644	05-14	--	21634	04414				--	03628	32328
914	86	02755	04386				50	05664	02484	5-	05668	32428
333	8-	01854	04414	5-	01764	02214	00	00790	00000	5-	02857	00017
334				--	05546	10317				--	04209	00028
340	4-	17675	02215	5-	05555	02325	50	08473	02113	6-	08465	31115
136	86	01853	02483	36	25845	03286	8-	81857	04287	8-	81857	02287
336	54	01762	04315	54	01752	04314				51	02752	02327
350	2-	81646	04316	8-	25755	02385	8-	05666	32286	8-	25638	32388
368	20	01743	04403	50	01663	06313				50	05663	04213
379	87	81846	04447	53	01744	02385	5-	05518	02368	57	05536	02327
390	26	01763	06213	4-	02757	04287	4-	05655	02285	4-	05666	02226
382				54	02666	32326	50	05663	31313	57	05656	31327
438										62	81734	02427
430				4-	00763	30313	53	05664	02417	5-	02767	02327
409	10	05754	02314	20	00762	06312	10	05651	04301	24	00751	02202

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



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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 25th Oct. 1941.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light or moderate N.E. wind; cloudy; occasional slight rain at first; somewhat milder than of late.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light N.E. wind becoming variable; fair today, fog in places tonight; rather cold; ground frost at night.
7 North Wales ...	Light N.E. wind; variable cloud; somewhat milder than of late.
8 N.W. England	As 4.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light or moderate N.W. wind; variable cloud; local fog tonight; becoming somewhat milder
13A. W. Scotland 13B. N.W Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate W.-N.W. wind; cloudy; occasional slight rain at first, bright intervals later; average temperature at first, falling later.
17 N. W. Ireland 18 N. E. Ireland	As 8-12.
19 S. E. Ireland 20 S. W. Ireland	As 4.

GENERAL INFERENCE.

A large anticyclone is centred to westward of Ireland, and a shallow trough of low pressure off N. Scotland is moving slowly south. A ridge of high pressure is building up to southwest of Iceland. Weather will be cloudy except in the extreme West and there will be slight rain at times in eastern districts.

FURTHER OUTLOOK.

Fair in the West and South, occasional showers in the North and East.

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.
C.269/4120. Wt.8/76.0.6034. Gp.346 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

Saturday 25th October

1941.

Clarke's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 25th October 1941.

No. 29,132

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1031·5	+2	NNE	3	ir₀	43	92	6	5	-	-	7-8	10	2200
	S. Farnborough	226	1032·0	-4	N'E	1	c	42	92	7	5	-	·	9+	9+	3100
	Boscombe Down	417	1032·6	0	N	3	z₀	42	92	6	5	-	·	9+	9+	6000
	Thorney Island	10	1031·2	-2	NNE	2	z₀	44	85	6	5	-	-	4-6	4-6	5400
	Lympne ...	346	1030·5	+2	N	1	c/pr	42	85	7	8	-	·	7-8	7-8	2500
	Manston ...	154	1030·8	-2	N	1	bc/pr	41	97	7	2	-	-	4-6	4-6	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1030·7	-2	NNE	3	pr	43	97	8	8	-	-	9+	9+	4500
	Gorleston ...	5	1031·4	0	NNE	5	pr	48	75	6	8	-	-	9	9	1500
	Mildenhall ...	19	1032·8	+4	N'E	2	c	41	97	7	5	-	-	7-8	7-8	4000
	Cranwell ...	240	1034·3	+4	N	3	bc/pr	42	97	5	5	-	-	4-6	4-6	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1033·2	0	N	3	z₀	41	97	6	5	4	-	2-3	2-3	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1033·1	+4	NE	4	bc	48	85	7	2	-	-	4-6	4-6	2500
	Bristol ...	209	1033·7	+2	NNE	4	m	41	92	4	-	-	-	0	0	-
	Portland Bill ...	32	1031·0	+2	NE	4	c	44	85	8	5	-	-	7-8	7-8	4000
	Plymouth ...	82	1031·8	+2	ENE	2	z₀	45	85	6	5	-	-	Tr	Tr	2500
	The Lizard ...	240	1032·4	+4	NNE	4	bc	45	85	8	8	-	·	2-3	2-3	2500
	Scilly (St. Mary's)	163	1032·[illegible]	0	E'N	4	bc	48	75	8	5	-	-	2-3	2-3	2000
	Guernsey ...	175														
6	Pembroke ...	142	1034·4	0	NE	5	b	44	92	7	-	-	-	0	0	-
7	Holyhead (Valley)	26	1036·1	0	NE	1	c	46	75	6	5	-	-	9	9	2500
	Chester (Sealand)	16	1036·1	0	WNW	2	m/f	37	97	4	5	-	·	1	1	3000
8	Manchester ...	235	1036·2	0	NW	2	z₀	42	85	6	5	-	-	2-3	2-3	3000
10	Spurn Head ...	29	1033·7	+2	NE'N	4	bc	49	75	7	8	6	·	4-6	4-6	4000
	Catterick ...	175	1036·7	-2	N'W	2	z₀	45	75	5	5	-	·	10	10	2100
	Tynemouth ...	108	1036·5	-2	NNE	4	o	48	75	7	5	-	-	10	10	2500
11	St. Abbs Head	280	1037·0	-2	NW	3	c	44	92	7	5	4	-	4-6	7-8	2500
	Leuchars ...	36	1037·5	-4	WNW	2	z₀	35	97	5	-	-	-	0	0	-
12	Renfrew (Abbots I.)	19	1038·6	0	-	0	bF+	28	97	1	-	-	·	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1037·7	0	E'S	2	c	48	65	8	5	-	-	7-8	7-8	3000
13A	Tiree ...	22	1037·4	0	NW	1*	bc	50	86	8	5	*	*	4-6	4-6	3500
13B	Stornoway ...	80	1036·1	-6	SSW	3	c	49	75	8	5	7	-	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1035·9	-10	WSW	2	o	45	85	7	5	-	-	10	10	3500
16	Sumburgh ...	30	1032·9	-10	W	4	c	51	75	7	5	·	-	10	10	2000
17	Blacksod Point	18	1038·3	0	-	0	b	41	92	8	-	-	-	0	0	-
18	Malin Head ...	84	1038·7	-2	S	1	bc	42	85	8	4	-	-	2-3	2-3	5700
	Aldergrove ...	268	1039·1	+2	-	0	z₀	33	97	6	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*		*	*	*	*	*
20	Valentia Obsy.	30	1037·2	+10	E'N	2	b	36	92	8	-	-	-	0	0	-
	Roches Point	22	1036·7	+8	NE	3	b	43	85	8	5	-	-	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 25th October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 24th Hrs. (36)
London (Kew)	1032·3	+4	N'E	3	ir₀	45	85	6	5	-	-	9+	9+	2500	1	*	51	44	43	0·6	Tr	4·5
Croydon	1031·3	+4	NNE	3	z₀	45	92	6	5	-	-	9+	9+	4500	1	*	55	42	41	-	0·1	3·2
S. Farnborough	1032·2	+4	N'E	2	id₀	43	92	6	5	-	-	9	9+	4000	1	*	54	42	37	Tr	Tr	5·8
Boscombe Down	1033·3	+8	N	4	z₀	40	92	6	5	-	-	4-6	4-6	5000	0	*	52	39	35	0·1	-	7·9
Thorney Island	1031·4	+2	N	3	z₀	43	92	6	5	7	-	7-8	9	4000	0	*	51	39	31	Tr	-	*
Lympne	1030·4	+2	N	1	c	40	97	8	8	-	·	7-8	7-8	2500	1	§ 2	48	39	31	2	0·6	2·6
Manston	1030·4	+2	ENE	3	pr	45	85	8	8	-	-	9+	9+	1500	1	*	50	39	36	8	4	0·8
Shoeburyness	1031·1	+2	N	3	c/r	43	92	7	6	7	-	4-6	9	2800	1	*	52	42	35	5	3	1·9
Felixstowe	1030·9	+4	NNE	3	id₀	44	92	8	5	-	-	9+	9+	2500	1		52	41	39	3	5	2·3
Gorleston	1031·8	+6	NE'N	3	c/pr	48	85	7	8	-	-	9	9	1800	1	4	52	42	42	4	2	*
Mildenhall	1032·7	+2	NW	2	z₀	43	97	6	8	-	-	9	9	2500	1	*	53	38	28	0·3	0·4	4·8
Cranwell	1034·4	+6	N	3	id₀	44	85	6	5	-	-	10	10	3000	1	*	51	39	38	0·3	1	4·6
Birmingham	1034·8	+2	N	3	m	41	85	4	5	-	-	10	10	1500	1	*	49	40	34	-	Tr	2·1
Upper Heyford	1033·6	+4	N'W	3	m	38	97	4	5	3	-	2-3	2-3	2500	1	*	52	37	37	0·1	0·1	*
Ross-on-Wye	1034·5	0	NW'N	1	z₀	40	92	6	5	-	-	9+	9+	3000	1	*	49	39	33	-	-	3·2
Hartland Point	1033·6	+4	NE	4	bc	47	85	7	2	4	-	4-6	4-6	2500	0	3	51	46	44	-	-	6·6
Bristol	1034·6	+10	ENE	2	m	40	97	4	5	-	-	4-6	4-6	2500	0	*	50	39	32	-	-	3·9
Portland Bill	1031·5	+4	NE	4	c	44	92	7	5	4	-	4-6	10	2500	0	4	53	40	*	-	-	*
Plymouth	1032·6	+6	NE	3	z₀	43	85	6	5	-	-	2-3	2-3	2000	0	2	53	43	36	-	-	7·6
The Lizard	1033·2	+8	N	3	bc	41	85	8	8	-	-	4-6	4-6	2500	0	3	53	40	*	-	-	7·[illegible]
Scilly (St. Mary's)	1032·8	+2	ENE	4	bc	47	85	8	8	4	-	2-3	4-6	1500	0	4	55	46	*	-	-	8·6
Guernsey																						
Pembroke	1035·2	+2	NE	5	bc	42	85	7	4	-	-	2-3	2-3	3000	0	3	52	39	*	-	-	8·9
Holyhead (Valley)	1036·0	+2	NNE	1	c	47	65	8	5	-	-	10	10	2500	0	2	53	45	42	-	-	*
Chester (Sealand)	1036·1	+2	N	2	m	39	92	4	5	-	-	9+	9+	2200	1	*	50	32	27	-	-	1·9
Manchester	1036·4	+6	N	1	m	42	85	4	5	-	-	10	10	3000	1	*	49	39	32	-	-	*
Spurn Head	1033·9	+4	NNE	5	id₀	48	75	7	5	-	-	9+	9+	4000	1	4	53	45	*	0·2	Tr	5·7
Catterick	1036·6	+2	NW'N	2	c	44	85	7	5	-	-	10	10	2500	1	*	48	44	*	1	-	*
Tynemouth	1036·2	0	NNW	3	z₀	45	85	6	5	-	-	9+	9+	2200	1	3	49	44	42	Tr	-	*
St. Abbs Head	1036·3	-4	WNW	3	c	43	75	7	4	4	8	2-3	7-8	2500	0	2	47	41	*	Tr	-	*
Leuchars	1036·7	-6	W	1	bc	34	97	7	-	7	9	0	4-6	-	0	*	51	31	27	-	-	8·5
Renfrew (Abbots I.)	1038·3	0	-	0	F+	25	97	0	-	-	-	10	10	<150	3	*	49	24	22	-	-	2·6
Eskdalemuir	1038·1	-2	-	0	bc	28	97	8	-	7	2	0	4-6	-	3	*	47	28	18	-	-	2·0
Point of Ayre	1037·4	0	NNE	3	b	46	65	9	8	-	2	Tr	1	5000	0	3	51	45	*	-	-	5·1
Tiree	1037·2	-2	NW'W	2	c	50	85	8	5	-	-	9	9	3500	0	3	54	50	*	-	-	3·5
Stornoway	1035·0	-6	WSW	3	c	49	85	8	5	7	-	7-8	10	2500	0	2	52	46	*	-	-	6·2
Dalwhinnie	1038·3	-4	-	0	o	30	92	7	5	-	-	10	10	2500	1	*	49	24	16	-	-	6·5
Aberdeen	1035·2	-12	NW	2	z₀	43	75	6	5	-	-	9	9	2300	1	2	51	33	28	-	-	4·4
Wick	1033·6	-12	W	3	o	46	85	7	5	-	-	10	10	4000	1	*	53	43	40	-	-	*
Sumburgh	1029·4	-22	W	5	c	51	97	7	5	-	·	10	10	1800	1	5	51	50	48	-	-	0·0
Blacksod Point	1039·7	+6	-	0	bc	40	97	8	4	-	-	2-3	2-3	4000	0	1	55	38	*	-	-	*
Malin Head	1038·5	+2	N	3	c	49	75	8	9	-	-	7-8	7-8	5700	0	2	54	39	*	-	-	8·3
Aldergrove	1039·1	+2	-	0	z₀	35	97	6	5	-	-	9+	9+	3500	1	*	53	30	29	-	Tr	5·1
Birr Castle	1038·6	+2	NE	1	bc	34	97	8	-	4	-	0	2-3	-	1	*	55	33	29	-	-	4·1
Valentia Obsy.	1037·5	+6	E'N	4	b	43	75	9	-	-	1	0	Tr	·	1	3	55	36	29	-	0·1	8·3
Roches Point	1037·0	+6	NE	3	c	45	85	8	5	-	-	9+	9+	2500	0	4	54	42	*	-	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine, to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
KEW	18	cbecz₀	cprir₀	clr₀m₀r₀m₀	51	44	43	0·6	Tr	4·5	*	*	6
CROYDON	217	bbez₀c	cyez₀d₀	cm₀ir₀id	50	42	41	-	0·1	3·2	*	*	4
GREENWICH (Royal Observatory)	149	bc	cbecr₀	c	51	43	37	Tr	-	2·7	64	81	6
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park)	27	*	*	*				-			65	85	*
REGENTS PK. (Botanic Gardens)‡	168	*	*	*	55	42	38	Tr	-		81	81	*
CAMDEN SQUARE	110	bc	bc	*	54	43	39	-	-	*	*	86	*
KENSINGTON	80	bcp	bcp	*	54	44	40	2	Tr		84	85	*
HAMPSTEAD OBSERVATORY	450	bcp	c	bcp	50	40	37	0·3	Tr		*	91	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 25th

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0·4	16h 24th	<0·1	2h 25th

FOREIGN OBSERVATIONS.

Stations	Evening of 24th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 25th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1022·1	SW'S	5	c	46	1033·0	WNW	2	bc	45	*	*	*	*
Lisbon (18h and 07h)	1014·7	N	2	bc	63	1025·0	NE	4	bc	52	68	50	-	-
¶Madrid (18h and 07h)						902·5	NW	3	c	39		37		-
Cairo (Heliopolis) (18h and 06h)	1008·4	NNE	3	b	71	1020·6	ENE	1	b	67	81	58	-	-
Toronto (13h and 01h)														
Washington (13h and 01h)						*	SW	3	c	*				

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6¼ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30—Code for State of Sea.

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

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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

Sunday 26th October 1941.
No. 29,193

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1032.2	-10	N'E	3	dod	47	92	5	6	2	-	7-8	10	1500
	Croydon	1030.9	-10	N	4	zo	49	85	5	9	-	-	4-6	7-8	1300
	S. Farnborough	1031.1	-8	N'E	3	zo	46	92	6	5	3	-	7-8	10	1500
	Boscombe Down	1033.2	-2	NNE	3	c	47	75	8	5	-	-	10	10	1600
	Thorney Island	1031.5	-8	N	3	c	50	85	7	8	4	1	4-6	7-8	4000
	Lympne	1030.0	-10	N'E	2	c/pr	49	75	8	2	6	-	7-8	9	4000
	Manston	1030.4	-6	N	3	c/p	51	75	8	8	-	-	9+	9+	2500
2	Shoeburyness	1031.1	-6	N	3	bco	48	92	8	8	7	-	4-6	9	2500
	Felixstowe	1030.3	-12	N	4	ido	47	85	7	5	-	-	10	10	1200
	Gorleston	1030.5	-10	N'W	5	bc/pr	50	75	7	8	4	-	4-6	4-6	2000
	Mildenhall	1032.2	-10	N	4	c	50	85	8	8	-	-	9+	9+	1800
	Cranwell	1033.5	-10	NNW	2	zo	47	85	6	5	-	-	10	10	3000
3	Birmingham	1034.6	-2	NNE	3	c	46	75	6	5	-	-	10	10	1500
	Upper Heyford	1033.1	-10	N'E	3	c	48	75	8	9	6	-	9	9+	1000
4	Ross-on-Wye	1033.9	-4	NNE	1	zo	48	75	6	5	-	-	10	10	3500
5	Hartland Point	1034.3	0	NE	4	bc	51	65	8	1	-	-	4-6	4-6	3500
	Bristol	1034.1	-6	N	4	zo	49	65	5	8	-	-	9+	9+	3000
	Portland Bill	1032.2	-4	NE	4	c	50	85	8	2	-	-	9	9	4000
	Plymouth	1032.9	-8	NE	4	bc	53	65	7	2	-	-	4-6	4-6	2500
	The Lizard	1033.7	-2	NE	3	bc	53	65	8	2	6	-	4-6	4-6	3500
	Scilly (St. Mary's)	1034.6	+2	ENE	3	c	55	65	8	8	-	-	7-8	7-8	1500
	Guernsey														
6	Pembroke	1036.4	-4	NE	4	c	50	75	8	4	-	-	9+	9+	2500
7	Holyhead (Valley)	1035.8	-10	NNE	3	c	51	65	9	5	-	6	2-3	7-8	3500
	Chester (Sealand)	1035.7	-14	NNW	2	c	49	65	7	5	-	6	7-8	9	3200
8	Manchester	1034.9	-16	NW	2	zo	47	65	5	5	-	-	9+	9+	3500
10	Spurn Head	1033.1	-4	NNE	3	o	50	65	7	5	-	-	10	10	4000
	Catterick	1034.1	-22	NW	2	c	49	65	8	5	4	6	4-6	9	2800
	Tynemouth	1033.4	-24	NW	3	c	51	65	7	5	-	2	4-6	7-8	3200
11	St. Abbs Head	1033.1	-16	WNW	3	c	47	75	7	5	4	-	7-8	10	2500
	Leuchars	1033.7	-20	W	4	c	48	75	7	5	-	-	10	10	4000
12	Renfrew (Abbots I.)	1036.0	-22	W'N	1	cf-	41	97	3	5	-	-	9	9+	3000
	Eskdalemuir	1035.0	-10	NW'N	3	c	46	65	7	5	7	7	2-3	9+	2500
	Point of Ayre	1036.2	-8	N'E	4	c	51	65	8	1	-	6	tr	9+	2500
13A	Tiree	1036.2	-4	NW'N	3	c	54	85	7	5	-	-	9+	9+	2800
13B	Stornoway	1033.0	-14	W	4	dod	53	97	7	8	7	-	7-8	10	2000
15	Dalwhinnie	1035.0	-10	NW	2	zo	47	75	7	5	3	-	7-8	9+	2500
	Aberdeen	1031.7	-20	NW'N	3	c	51	65	7	5	7	-	7-8	10	4500
	Wick	1030.2	-20	WNW	4	dr	51	97	6	5	-	-	10	10	400
16	Sumburgh	1027.5	-8	NW	4	c	51	85	8	8	4	-	4-6	9	1200
17	Blacksod Point	1039.7	-4	-	0	bc	53	65	8	-	6	4	0	4-6	-
18	Malin Head	1037.7	-6	N	4	c	53	85	7	5	-	-	9	9	1500
	Aldergrove	1037.9	-12	NW	2	c	49	85	7	7	4	2	1	9	2000
19	Birr Castle	1038.5	-10	N	1	c	52	75	8	4	-	8	7-8	9	2500
20	Valentia Obsy. †	1038.5	0	NNW	2	c	53	65	9	1	-	2	1	7-8	2500
	Roches Point	1037.8	-4	N'E	3	bc	52	65	8	1	-	5	1	2-3	4000

OBSERVATIONS at 18h. G.M.T. 25th October and **PAST 24 HOURS**

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 25th (37)	Weather 13h.–18h. 25th (38)	Weather 18h. 25th – 1h. 26th (39)	Weather 1h.–7h. 26th (40)
London (Kew)	1031.9	+2	N'W	2	zo	47	75	6	5	-	-	10	10	1500	1	*	cdrdom	cdom	cmofofo	cmofoca
Croydon	1031.1	+2	N	4	m	43	85	4	5	-	-	7-8	10	1200	1	*	cmroem	d.	cmcmo	cmoido
S. Farnborough	1032.5	+10	N'W	3	c	47	85	7	5	2	-	9	10	3000	1	*	cidmmr	c	cmmmof	ibmodofor
Boscombe Down	1033.1	+8	NNW	3	zo	45	85	6	5	-	-	10	10	2000	0	*	bemzo	c	bcmo cmo	cmododo
Thorney Island	1031.5	+2	NNW	3	zo	48	85	6	5	3	-	4-6	10	1500	0	*	c	cmo	obcmo	ciroc
Lympne	1029.8	0	NNW	2	c/pr	47	85	8	9	-	-	10	10	4000	1	§	cpro	cpro	ccmo	cmo
Manston	1029.4	0	N	5	zo	48	75	6	5	-	-	10	10	3500	1	*	cproige	cdemo	cmo	mofomo
Shoeburyness	1030.5	+2	NNW	3	c	47	85	7	5	-	-	10	10	2100	1	*	cirofo	fofo)pc	cmo	cmobmocmo
Felixstowe	1029.4	0	NW	3	c	47	85	7	5	-	-	10	10	2000	1	2	cirod	cidc	coirfo, mo	cmobcmo
Gorleston	1029.4	+2	NW	2	c	48	65	6	5	-	-	10	10	1400	1	3	cprid	c	czodo	odocmpr
Mildenhall	1031.2	-2	NW	3	zo	46	92	6	5	-	-	10	10	3300	1	*	cidbcc	ccmz	cmo	cirobc
Cranwell	1031.9	-6	NW	2	zo	45	85	5	5	-	-	9+	9+	1500	1	*	cmzid	cmz	cmoiro	cbcmo
Birmingham	1033.5	-2	NNW	3	c	45	75	5	5	-	-	9	9	2500	1	*	c	c	cbcc	corR
Upper Heyford	1032.8	+6	NNW	1	zo	44	85	5	5	-	-	10	10	3000	1	*	cidmz	ccz	cmocm	cmrofo
Ross-on-Wye	1033.6	0	NW	1	zo	43	75	5	5	-	1	2-3	4-6	3000	1	*	czbzc	czbz	bczc	c
Hartland Point	1034.2	+6	N	3	c	49	75	8	5	-	7	7-8	10	400	0	3	bcebc	bcv	cbcc	cir
Bristol	1033.6	+4	NNE	3	m	46	75	4	5	-	-	10	10	3000	0	*	b,cm	vmz	bc	cbc
Portland Bill	1032.2	+4	NE	4	o	49	85	7	5	-	-	10	10	2500	0	4	c	c	c	c
Plymouth	1033.5	+6	NNE	3	c	49	65	5	5	-	7	4-6	9	3000	0	2	bcmz,bbc	bcc	bmow	crofopcfo
The Lizard	1034.6	+10	N	3	bc	46	75	8	8	-	-	4-6	4-6	2500	0	2	bc,rob	bc	cbc	cproc
Scilly (St. Mary's)	1035.2	+8	NNE	4	bc	49	65	8	5	-	2	4-6	4-6	1500	0	4	bc	cbc	bcc	c
Guernsey																				
Pembroke	1035.2	+2	N'E	4	c	49	85	8	5	-	-	7-8	7-8	2500	0	2	c	c	cmo	opr
Holyhead (Valley)	1034.6	-6	N	3	pr	50	75	7	8	-	-	9+	9+	2500	0	2	cbcc	c	proc	domoc
Chester (Sealand)	1033.8	-10	NNW	2	zo	45	85	6	5	4	8	7-8	9+	3500	0	*	cmc	cm	cmorrm	r
Manchester	1033.5	-6	-	0	cf+	40	92	3	-	3	2	0	9	-	1	*	cmmz	cz	cmmo	iromo
Spurn Head	1030.5	-8	NW'N	4	zo	48	75	5	5	-	-	9+	9+	4000	0	4	c	omz	omirc	oirq
Catterick	1031.8	-14	NW	3	zo	45	85	6	5	3	-	2-3	4-6	4500	0	*	cmzc	cbcmz	ciromo	bcprob
Tynemouth	1030.9	-12	WNW	3	co	48	85	6	5	-	-	9+	9+	4000	1	2	c	c	c	cp
St. Abbs Head	1029.2	-18	NW	2	c	50	75	7	5	7	-	7-8	10	2500	0	2	c	c	cqiro	irocq
Leuchars	1030.5	-8	W	2	zo	45	92	6	5	7	-	2-3	4-6	4000	0	*	ccmzc	cbcmz	bcmo	bcmoirobc
Renfrew (Abbots I.)	1032.9	-14	W'N	3	zo	51	75	6	5	-	-	7-8	7-8	2500	1	*	FFcf	cfmbcz	czmmob	bbcw
Eskdalemuir	1032.0	-12	WNW	4	co	47	85	7	5	-	-	7-8	7-8	2500	1	*	bcc	c	cidoc	cbc
Point of Ayre	1033.9	-10	N'W	5	c	54	75	8	8	2	-	7-8	10	2000	0	4	bcc⊕	cifc	cbcb	b
Tiree	1036.1	-8	NW	4	o/r	53	92	6	5	-	-	10	10	1200	1		c	r	cirobc	bcc
Stornoway	1034.0	0	WNW	3	c	49	85	8	5	7	-	7-8	9	2500	1		cprdo	cddc	cpr	c
Dalwhinnie	1030.8	-14	NW	3	iro	47	85	6	5	-	-	10	10	1500	1	*	oc	co		oprc
Aberdeen	1029.7	0	NNW	3	bc	49	85	8	5	4	-	2-3	4-6	4500	1	2	czc	cidbc	bcbroba	bcproc
Wick	1030.1	-4	NW	3	iro	47	92	8	5	-	-	10	10	2000	1		irodofo	dcero	robcpro	cproc
Sumburgh	1027.7	+8	NNW	4	b	47	85	8	8	-	-	tr	tr	1500	1	5	ddc	cbcb	pro bc	bccpro
Blacksod Point	1039.0	+4	NNW	1	bc	45	97	8	4	-	-	2-3	4-6	4000	0	1	bc	bc	c	bc
Malin Head	1036.5	-6	W	4	c	54	85	7	6	-	-	9	9	2500	0	4	c	c	cidocproc	cb
Aldergrove	1036.8	-6	NNW	2	o/d	50	85	6	5	-	-	10	10	4500	1	*	cbcc	ccidc	cmzdob	bcidob
Birr Castle	1038.5	+2	N	1	c	45	85	8	5	-	5	2-3	9	2500	1	*	bbcc	c	*	c
Valentia Obsy. †	1039.2	+12	NE	2	bc	47	75	8	1	-	1	tr	2-3	2500	1	3	bbcc	cbcb	bcwbw	bwccir
Roches Point	1038.1	+10	N'E	3	bc	48	85	8	5	-	5	2-3	4-6	2500	0	4	bc	bc	bbc	c

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/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ↗gale.
⊕ Solar halo. ⊕ lunar halo. ⌂Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

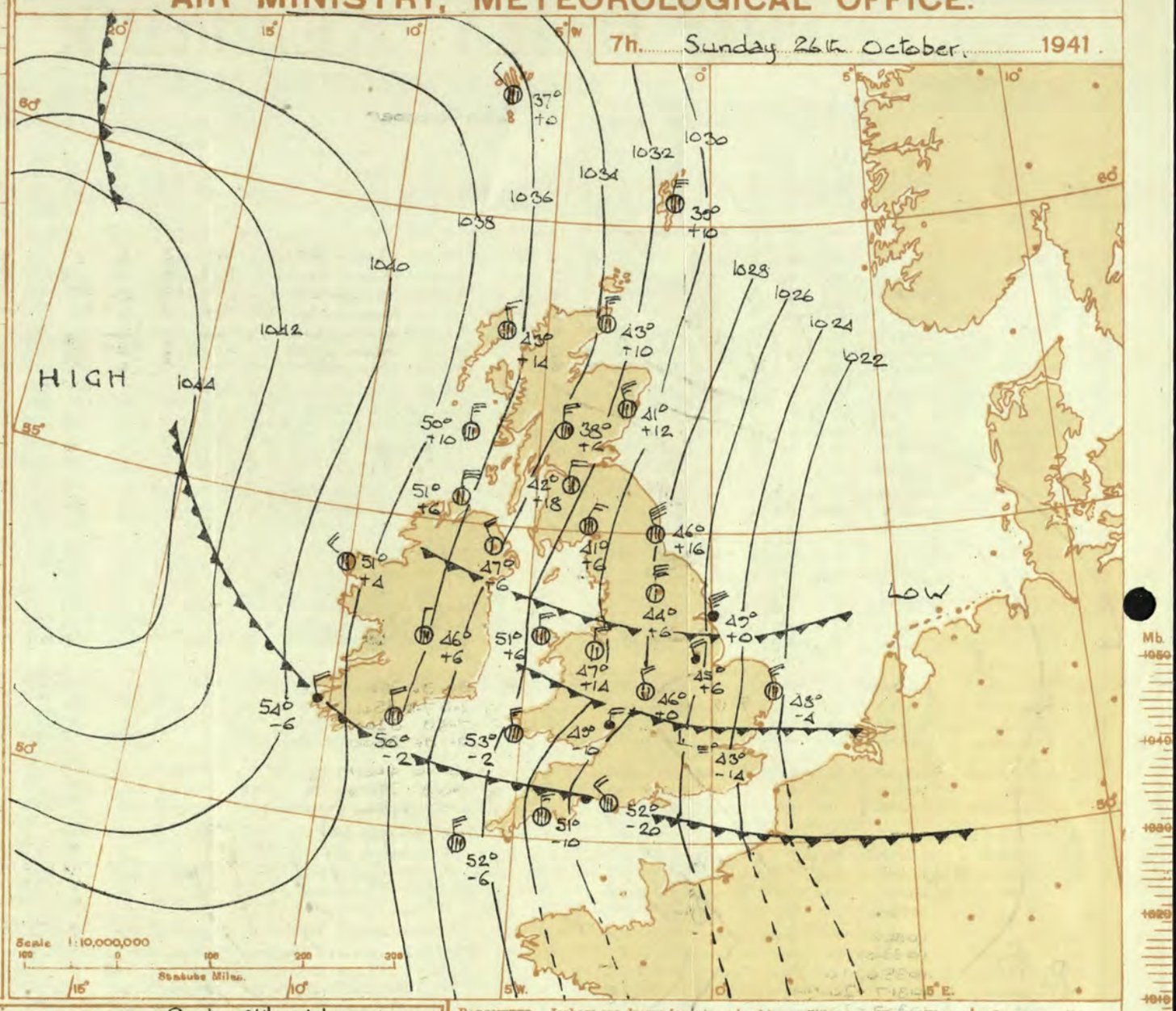
13h. G.M.T. 25th October ... 18h. G.M.T. ... 01h. G.M.T. 26th October ... 07h. G.M.T.

III	C_L C_M	wwVhN_h	DDFWN	C_L C_M	wwVhN_h	DDFWN	C_L C_M	wwVhN_h	DDFWN	C_L C_M	wwVhN_h	DDFWN
109	57	02845	26555	53	25745	29526	5-	01784	62664	5-	02747	63686
115	--	07100	24468	52	01844	30427	54	02844	32485	52	02844	32486
203	5-	02838	24428	75	02856-	32328	8-	02946	32428			
206	51	02868	22327	47	01953	26266	52	01855	00668	53	02865	28227
210	57	02865	20428	53	02884	28465	8-	25854	63588	8-	01758	29488
220	82	03744	27328	82	25746	25388				80	01855	27215
230	5-	05668	00028	57	51647	24258	4-	01764	30414	80	01854	30214
245	57	02767	22327	57	02866	24777	80	00763	28263	80	10844	65684
260	5-	08403	24128	57	45813	22745	50	01763	23344	50	01464	30384
278	3-	02877	30317	53	12775	28014	57	00741	28663			
279	17	02890	22227	58			52		29715	5-	02857	28142
285	13	10285	30227	54	12787	32127						
288	10	05561	29225	53	17685	28117	5-	05354	23374	4-	05645	32265
575	13	02864	28225	53	01866	30227	50	22654	30364	50	01853	30253
301	00	02700	28-226	5-	05666	30226	5-	21655	29355			
321	5-	05668	29328	57	05551	27325	51	05674	25368	86	22644	29465
299	57	02745	28427	57	05655	25136	5-	05646	23326	80	01747	30787
292	70	01763	26325	57	02764	25226	5-	05668	28328	50	00753	29462
310	--	03628	32328									
614	5-	05668	30228	04	05590	26124	62	45355	28348	50	05654	30314
333	5-	01864	01325	5-	01864	32314						
334	--	05545	30216	--	05664	24114						
340	5-	05567	30227	50	02653	30125	5-	21644	30358	--	05664	31384
136	8-	02857	32487	5-	81668	28458	5-	22658	25368	5-	61767	31567
336	51	02763	04328	13	01763	04314						
350	86	02745	32327	5-	05658	30228	5-	05568	26228	53	05664	28325
368				50	05663	29214	5-	05668	26228			
379	8-	02757	62327	6-	05657	32227	5-	05646	28916	68	22648	22367
390	5-	81647	32267	5-	05653	30328	5-	05568	27318	57	05855	26367
382	83	02765	01428	8-	01668	29228	5-	05566	29128	5-	21646	31456
428	3-	02847	32427							5-	03657	28227
430	5-	02757	04427	5-	05654	30328	50	05663	30313	57	51665	28258
400	70	02852	03416	5-	02757	32327	5-	05657	32427	5-	22748	29468

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See M.O. 252.
N = Total amount of cloud—See M.O. 252.
C_L C_M = Form of low and medium cloud—See page 1.
V = Visibility. F = Force of wind—See page 4.
DD = Direction of wind 18 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 26th October, 1941.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 26th October 1941
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh north wind, strong or gale on East Coast: bright periods generally but showers with hail locally especially near East Coast: rather cold.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Moderate or fresh north wind, strong on coast and in exposed places; bright periods a few squally showers; rather cold.
10 N.E. England 11 S.E. Scotland	As 1-3
12 S.W. Scotland & Isle of Man	As 4-9
13A. W. Scotland 13B. N.W Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Fresh or strong north wind backing west, gale on East Coast at first; showery at first; cloud increasing with general rain later; snow on high ground; cold.
17 N. W. Ireland 18 N. E. Ireland	Moderate or fresh north wind, backing northwest; bright periods, local showers; rather cold.
19 S. E. Ireland 20 S. W. Ireland	Moderate north wind; mainly bright; a few scattered showers; rather cold.

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

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

GENERAL INFERENCE.

An anticyclone is situated to West and Northwest of the British Isles, and troughs of low pressure are moving south over the North Sea and Eastern England. A depression to North of Iceland will move southeast. There will be cloudy periods with squally showers or perhaps hail in the North and East but it will be mainly bright in the West.
Rain will spread southwards over Scotland later and there will be snow on the mountains.

FURTHER OUTLOOK.

Rain spreading over Scotland into Northern and Eastern districts of England. Snow on high ground in North. Gale warning in operation in districts 2, 10, 11 and 15. Time of issue 0755h on 26/10/41.

Forecasts issued at 10.30h.

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

H.M.S.O. Press, Meteorological Office Dunstable. 0.269/4120. No.8/76. D.6034. Gp.948.3100.8/41

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

Morning of Sunday 26th October 1941.

Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Page 4. AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 26th October 1941.

No. 29,193

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1028·4	-14	WNW	2	Zo	41	92	6	5	-	-	1	1	8000
	S. Farnborough	226	1029·1	-18	WNW	1	Zo	38	55	6	5	-	-	1	1	4400
	Boscombe Down	417	1030·1	-18	NW'W	3	Zo	41	85	6	5	-	-	10	10	2400
	Thorney Island	10	1029·4	-18	NW	2	Zo	41	85	6	5	-	-	2-3	2-3	4000
	Lympne	346	1027·1	-16	NW	2	Zo	42	92	6	5	-	-	9	9	3500
	Manston	154	1026·5	-20	NNW	4	Zo	46	85	6	5	-	-	10	10	3600
2	Shoeburyness	11	1027·0	-22	WNW	4	c	44	85	6	5	-	-	10	10	4000
	Felixstowe	15	1016·2	-20	NW	4	Zo	46	85	6	5	-	-	10	10	4800
	Gorleston	5	1025·3	-18	WNW	4	dodo	46	85	5	6	-	-	10	10	1500
	Mildenhall	19	1027·2	-18	WNW	3	Zo	44	92	6	5	-	-	10	10	3700
	Cranwell	240	1027·6	-18	WNW	3	d/r	44	85	5	5	-	-	10	10	2000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1029·2	-22	NNW	3	m	41	92	4	5	-	-	10	10	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1032·1	-14	NNE	4	c	52	85	8	5	2	-	7-8	10	1500
	Bristol	209	1030·3	-22	NW	2	Zo	46	85	6	5	7	-	9	10	3000
	Portland Bill	32	1029·9	-26	W	4	c	48	92	7	5	-	-	10	10	2500
	Plymouth	82	1032·6	-6	-	0	Zo	41	92	5	5	-	-	4-6	4-6	2500
	The Lizard	240	1034·1	-10	N	3	bc	44	85	8	7	7	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1034·8	-8	N'E	5	c	51	65	7	8	-	-	9+	9+	1500
	Guernsey	175														
6	Pembroke	142	1033·2	-6	NW	5	c	52	92	6	8	-	-	7-8	9+	2500
7	Holyhead (Valley)	26	1031·3	-14	NNW	5	c	53	85	7	5	7	2	4-6	9+	2500
	Chester (Sealand)	16	1029·3	-20	NW'W	4	rr	52	92	4	5	-	-	7-8	9	1000
8	Manchester	235	1029·6	-20	W	1	Zo	45	97	5	5	7	-	9	10	2500
10	Spurn Head	29	1025·8	-24	NW'W	5	c	48	85	7	8	-	-	9+	9+	2500
	Catterick	175	1028·2	-8	N	3	Zo	50	85	6	5	-	-	10	10	4500
	Tynemouth	108	1028·2	-4	NW	4	Zo	50	75	6	5	-	-	9+	9+	4000
11	St. Abbs Head	280	1027·4	-12	NW	7	ro	47	85	7	5	4	-	4-6	7-8	1500
	Leuchars	36	1029·9	0	WNW	3	Zo	46	75	6	5	-	-	4-6	4-6	2800
12	Renfrew (Abbots I.)	19	1031·0	+2	NW	3	b	45	85	7	5	3	-	Tr	1	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1030·1	-18	N'W	6	b	53	75	8	4	-	8	Tr	1	2000
13A	Tiree	22	1036·1	0	N	5	bc	50	85	8	8	-	-	2-3	2-3	2500
13B	Stornoway	80	1034·5	+6	N	4	c	45	92	7	2	7	-	4-6	7-8	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	119	1031·2	+6	N	6	pr	43	75	8	3	-	-	7-8	7-8	1400
16	Sumburgh	30	1029·2	+8	N	5	c	41	85	8	8	-	-	7-8	7-8	1500
17	Blacksod Point	18	1038·3	-8	NW	5	c	54	85	7	5	-	-	9+	9+	2500
18	Malin Head	84	1038·3	-4	N	5	c	53	85	7	9	-	-	9	9	4000
	Aldergrove	268	1033·8	-10	NNW	4	b	49	85	8	5	-	1	1	1	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1039·8	+2	-	0	b	37	92	8	7	-	-	0	0	-
	Roches Point	22	1037·9	-4	N'E	3	bc	46	85	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 26th October — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 25th Hrs. (36)
London (Kew)	1025·7	-10	NW'N	2	c/r	46	92	6	5	5	-	7-8	9+	2500	1	*	48	42	37	1	0·2	0·0
Croydon	1025·6	-14	WNW	3	m	43	97	4	5	3	-	7-8	10	4500	1	*	50	41	36	0·1	0·1	0·8
S. Farnborough	1026·2	-10	WNW	2	c/r	45	97	6	5	-	-	10	10	1200	1	*	49	38	32	Tr	1	0·1
Boscombe Down	1027·6	-6	NW	3	c/d	46	92	6	8	-	8	7-8	9	3000	1	*	49	38	34	-	1	1·4
Thorney Island	1026·5	-10	NW	2	c/d	45	97	6	5	-	-	9+	9+	2500	1	*	51	39	32	-	Tr	*
Lympne	1023·6	-14	NW	4	Zo	41	97	6	5	-	-	9+	9+	2000	1	§3	51	40	37	0·2	-	0·3
Manston	1022·9	-14	NW'N	5	Zo	45	85	6	5	7	-	2-3	10	2000	1	*	52	45	43	2	Tr	0·5
Shoeburyness	1023·9	-12	NW'N	3	c	45	85	5	5	7	-	9	10	1500	1	*	51	42	37	0·4	-	0·4
Felixstowe	1022·7	-18	NNW	4	Zo	45	92	6	5	7	-	4-6	7-8	4500	1	3	51	44	41	2	Tr	0·8
Gorleston	1022·3	-4	NNW	5	c/pr	48	75	7	8	-	-	7-8	7-8	1500	1	3	51	44	46	0·1	0·1	*
Mildenhall	1024·7	-2	NW	4	bc/pr	45	97	7	5	-	-	4-6	4-6	2500	0	*	52	42	37	0·3	Tr	0·7
Cranwell	1026·5	+6	NNW	4	ro	45	85	7	6	-	-	4-6	9+	1000	1	*	48	41	39	Tr	0·1	0·0
Birmingham	1028·0	0	NNW	4	bc	46	92	5	6	7	-	2-3	4-6	1500	1	*	47	40	34	-	3	0·1
Upper Heyford	1027·5	-2	N'W	3	Zo	46	92	6	5	-	9	7-8	7-8	600	1	*	49	36	36	Tr	0·5	*
Ross-on-Wye	1027·8	-10	N	4	ldo	49	75	8	5	-	1	9	9+	3000	1	*	49	38	33	-	Tr	1·1
Hartland Point	1029·9	-8	N	5	c/p	53	85	8	5	-	5	7-8	9	1200	0	5	52	46	45	-	Tr	1·7
Bristol	1027·9	-10	NNW	3	bc	49	85	7	8	3	1	2-3	2-3	3000	0	*	50	37	30	-	Tr	3·4
Portland Bill	1026·9	-20	NW	4	c	52	92	7	5	-	-	10	10	2500	0	4	51	44	*	-	-	*
Plymouth	1029·5	-10	N	3	c/pr	51	85	6	5	1	-	4-6	10	2000	1		53	39	32	-	Tr	6·4
The Lizard	1031·6	-8	NNW	5	c/pr	51	85	8	8	2	-	9	10	1500	1	4	54	40	*	-	0·5	8·4
Scilly (St. Mary's)	1033·4	-6	N'W	5	c	52	85	7	8	7	-	7-8	9+	1800	4	4	55	49	*	-	-	5·4
Guernsey																						
Pembroke	1031·7	-2	N'W	5	cq	53	85	7	8	-	-	7-8	7-8	2500	0	3	52	42	*	-	Tr	4·2
Holyhead (Valley)	1030·9	+6	N	4	c	51	75	8	8	-	-	7-8	7-8	2500	0			49	46	-	Tr	*
Chester (Sealand)	1029·6	+14	N	4	bc	47	75	7	8	-	-	2-3	2-3	2500	1	*	49	45	39	-	1	0·5
Manchester	1029·0	+10	NNW	4	bc	44	78	6	5	-	-	2-3	2-3	2500	1	*	47	39	33	-	0·2	*
Spurn Head	1024·6	0	N'W	7	rr	49	65	7	8	-	-	10	10	2500	1	4	50	41	*	-	2	0·0
Catterick	1028·7	+6	N	8	bc	44	75	7	8	-	-	2-3	2-3	2500	1	*	52	43	39	-	Tr	2·4
Tynemouth	1028·1	+16	NNW	8	c/pr	46	75	6	2	-	-	7-8	7-8	2800	1	5	51	45	41	-	1	*
St. Abbs Head	1028·8	+12	NW	8	cq	45	65	9	5	4	-	7-8	9+	2000	1	4	50	42	*	-	0·4	*
Leuchars	1032·0	+14	NNW	3	bc	42	85	9	5	-	-	4-6	4-6	3500	0	*	49	42	36	-	0·1	0·8
Renfrew (Abbots I.)	1033·3	+18	N'E	4	bc	42	65	9	5	-	-	2-3	2-3	3500	0	*	50	37	31	-	Tr	0·2
Eskdalemuir	1030·9	+6	NNE	3	c	41	75	8	5	-	-	4-6	7-8	2500	1	*	48	39	28	-	Tr	2·3
Point of Ayre	1031·5	+10	NNE	4	b	51	65	9	2	-	-	Tr	Tr	1800	0	5	54	49	*	Tr	-	4·4
Tiree	1037·0	+10	N	5	c	50	75	8	5	-	-	10	10	2500	0	5	54	48	*	0·1	0·2	0·0
Stornoway	1036·3	+14	NNW	3	c	43	85	8	5	7	-	4-6	7-8	1000	1	1	53	41	*	2	0·1	1·2
Dalwhinnie	1033·6	+6	N	5	c	38	75	7	5	3	-	7-8	7-8	2500	1	*	48	36	32	-	2	0·4
Aberdeen	1030·8	+12	NNW	5	c/pr	41	75	8	8	-	-	7-8	7-8	2100	1	3	52	40	35	Tr	0·4	0·1
Wick	1032·9	+10	N	5	c	43	65	8	8	-	-	4-6	9+	1800	1	*	52	42	40	1	0·1	*
Sumburgh	1030·7	+10	NNE	5	c	39	85	8	8	-	-	10	10	2000		*	52	39	36	0·5	2	*
Blacksod Point	1038·6	+4	NW	4	bc	51	85	8	4	-	-	4-6	4-6	2500	0	3	54	44	*	-	-	*
Malin Head	1036·0	+6	N	6	bc	51	75	7	9	-	2	4-6	4-6	4000	0	5	54	46	*	-	0·2	1·2
Aldergrove	1034·8	+6	NW'N	3	b	47	85	8	2	4	1	Tr	1	2000	1	*	52	46	43	Tr	Tr	2·7
Birr Castle	1036·3	+6	N	1	c	46	92	8	5	1	-	7-8	9+	2500	1	*	53	38	34	-	-	4·4
Valentia Obsy.	1038·6	-6	N'W	4	ro	54	85	8	5	-	-	9+	9+	2500	1	3	53	36	30	-	Tr	8·4
Roches Point	1036·0	-2	NNW	4	c	50	85	8	5	-	-	9	9	2500	0	4	53	45	*	-	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temp. Day Max. °F.	Temp. Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	cdrdomo	cdomo	cmorodc	48	42	37	1	0·2	0·0	*	*	6
Croydon	217	cmrocmo	d	cmcnoido	50	41	36	0·1	0·1	0·8	*	*	*
Greenwich (Royal Observatory)	149	cdoc	cdc	c	50	42	35	Tr	-	0·1	84	74	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	51	43	40	Tr			87	79	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	c	bc	*	49	42	39	0·3	-	*	*	73	*
Kensington	80	cp	c	*	54	42	38	Tr	0·2		77	75	*
Hampstead Observatory	450										*		*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 26th

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·2	20-24h 25th	<0·1	5h 26th

FOREIGN OBSERVATIONS.

Stations	Evening of 25th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 26th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1038·3	S	1	c	46	1035·7	SSW	1	ldo	48	*	*	*	*
Lisbon (18h and 07h)	1020·1	NE	4	b	59	1025·1	NE	5	b	46	64	45	-	-
¶Madrid (18h and 07h)											79		-	
Cairo (Heliopolis) (18h and 06h)	1020·3	N	2	b	69									
Toronto (13h and 01h)														
Washington (13h and 01h)														

¶Pressure at 1,000 dynamic metres level.

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

† Sea disturbance reported from Dungeness.

EXPLANATION of FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22—Code for surface visibility.

Objects not visible at

0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6¼ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30—Code for State of Sea.

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

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

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

SECRET

THE DAILY WEATHER REPORT

AIR MINISTRY.

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 27th October 1941.

No. 29194

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1027·2	+6	NW	4	2o	48	55	6	5	–	–	9+	9+	1500
	Croydon	1026·7	+6	NNW	5	c/pr	48	65	6	8	–	–	9+	9+	2800
	S. Farnborough	1027·8	+6	NNW	4	c	48	55	8	5	8	–	7-8	7-8	2200
	Boscombe Down	1029·1	+10	N	5	c	48	55	7	8	–	–	7-8	7-8	2500
	Thorney Island	1027·5	+8	NNE	4	bc	50	65	8	2	3	–	4-6	4-6	4000
	Lympne	1024·4	+2	NNW	5	c/pr	47	75	8	2	6	–	7-8	9	2500
	Manston	1024·1	+4	NNW	5	c/pr	46	85	8	8	6	3	4-6	7-8	1600
2	Shoeburyness	1025·1	+4	NNW	4	bc/c/pr	50	75	8	2	7	–	2-3	4-6	3500
	Felixstowe	1023·5	+2	NNW	6	c/pr	45	75	8	9	–	–	9+	9+	1000
	Gorleston	1023·7	+8	NW	6	c/pr	47	65	6	8	–	–	7-8	7-8	2000
	Mildenhall	1026·0	+6	N'W	5	c/pr	49	85	8	8	6	–	7-8	7-8	2500
	Cranwell	1028·3	+6	N'W	5	c/pr	47	65	7	5	–	–	9	9	1000
3	Birmingham	1030·3	0	N	4	c	46	55	6	5	–	–	9+	9+	1500
	Upper Heyford	1029·1	+8	NNW	5	2o	46	65	6	8	6	–	4-6	4-6	2500
4	Ross-on-Wye	1030·2	+6	NE'N	4	c	49	55	8	7	–	–	7-8	7-8	4000
5	Hartland Point	1030·8	+4	N	4	bc	53	75	8	2	–	–	4-6	4-6	2000
	Bristol	1030·3	+2	NE	5	c	50	55	8	8	–	–	7-8	7-8	3000
	Portland Bill	1028·8	+6	NNE	4	c	51	75	8	2	4	–	4-6	7-8	4000
	Plymouth	1029·7	+6	NE	4	c	53	65	8	2	–	–	7-8	7-8	2500
	The Lizard	1031·2	–4	N	6	c	55	65	8	8	6	–	7-8	7-8	2500
	Scilly (St. Mary's)	1031·4	+2	N	5	c	54	75	8	8	–	–	7-8	7-8	1200
	Guernsey														
6	Pembroke	1032·4	+2	N'E	5	cq	55	65	8	8	–	–	7-8	7-8	3000
7	Holyhead (Valley)	1033·2	+10	NE	5	c	52	55	9	7	3	–	4-6	7-8	3000
	Chester (Sealand)	1032·2	+10	NE	5	bc	48	65	8	4	–	–	2-3	2-3	2500
8	Manchester	1031·2	+4	NW'N	4	bc	46	55	6	4	6	–	4-6	4-6	3500
10	Spurn Head	1026·1	+6	N	8	iR	48	65	7	9	8	–	4-6	7-8	4000
	Catterick	1030·8	+10	NNE	5	c	47	65	7	8	3	–	7-8	7-8	2200
	Tynemouth	1030·4	+6	NNW	8	c/pr	45	85	7	9	–	–	9	9	2000
11	St. Abbs Head	1030·9	+10	NW	8	cq	45	65	8	5	7	–	7-8	9+	2400
	Leuchars	1033·8	+6	NNW	2	c/p	45	65	9	8	7	–	7-8	7-8	3500
12	Renfrew (Abbotsl.)	1034·8	+6	N'E	3	c	47	55	9	5	3	5	Tr	7-8	3000
	Eskdalemuir	1033·4	+4	N'W	4	c	45	55	8	7	7	–	7-8	7-8	2500
	Point of Ayre	1034·6	+10	NNE	5	bc	50	55	8	1	4	–	2-3	4-6	4000
13A	Tiree	1037·3	0	N	4	bc	50	65	8	2	–	–	4-6	4-6	3500
13B	Stornoway	1036·6	–2	NW	4	c	47	75	8	5	7	–	7-8	9+	2500
15	Dalwhinnie	*	+6	N	4	c	41	55	8	5	3	–	4-6	7-8	2500
	Aberdeen	1032·2	+8	NNW	4	c	43	75	8	8	3	–	7-8	9	1900
	Wick	1033·9	0	N	5	c	42	75	9	8	3	–	7-8	9+	3000
16	Sumburgh	1031·6	+2	N	3	c/pr	41	75	8	8	–	–	10	10	2000
17	Blacksod Point	1039·9	+2	N	4	bc	54	75	8	2	–	–	2-3	2-3	2500
18	Malin Head	1038·0	+4	N	5	c	51	65	8	4	3	2	4-6	7-8	5700
	Aldergrove	1036·4	+2	NNW	4	c	52	65	8	8	4	8	7-8	7-8	3000
19	Birr Castle	1037·5	+6	N	3	bc	55	65	8	2	–	–	2-3	2-3	2500
20	Valentia Obsy. †	1039·2	+2	NNE	5	bc	57	65	9	8	–	1	2-3	2-3	2500
	Roches Point	1036·5	–4	N	5	bc	54	65	8	2	–	–	4-6	4-6	2500

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

District	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. (20)	°Humid. (21)	°Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	1029·3	+18	N	4	iro	45	65	7	5	–	–	9+	9+	1500	1	*
	1028·3	+10	NNW	5	m	44	75	4	5	4	–	7-8	9	3000	1	*
	1029·4	+10	NNW	4	c	45	65	7	4	–	–	9+	9+	2500	0	*
	1030·9	+10	N'W	4	2o	42	75	6	5	–	–	2-3	4-6	2500	0	*
	1029·3	+14	N'W	3	bc	46	65	7	5	–	–	4-6	4-6	2500	0	*
	1025·7	+6	NNW	4	bc	42	75	7	2	–	–	2-3	2-3	2500	1	*
	1025·8	+10	N'W	6	c	44	75	8	8	6	3	4-6	7-8	2000	1	*
2	1026·9	+14	NNW	4	c/pr	42	85	8	8	–	–	7-8	7-8	2500	1	*
	1025·8	+14	N'W	5	c	42	85	7	5	–	–	9	9	2000	1	4
	1025·0	+10	NNW	6	c/pr	46	65	7	8	–	–	7-8	7-8	1500	1	5
	1027·9	+18	NNW	4	c/pr	41	97	8	8	6	–	4-6	7-8	2500	1	*
	1030·0	+14	N'W	6	bc	42	85	7	8	3	–	2-3	4-6	2500	1	*
3	1031·4	+10	NNW	3	2o	42	65	5	5	–	–	1	1	2500	1	*
	1030·3	+8	NW	4	2o	43	75	6	5	6	–	7-8	9	2500	1	*
4	1032·0	+10	N	3	b	42	65	8	5	–	–	1	1	3500	1	*
5	1032·9	+12	NNE	5	bc	50	65	8	1	–	–	4-6	4-6	2100	0	5
	1032·1	+10	NNE	4	2o	43	65	6	–	4	–	0	Tr	–	0	*
	1030·4	+22	NNE	3	bc	47	75	7	2	–	–	4-6	4-6	4000	0	4
	1031·4	+14	NNE	2	bc	50	65	8	5	–	–	2-3	2-3	3500	0	2
	1033·5	+16	NNE	3	bc	48	75	8	8	6	–	4-6	4-6	2500	0	5
	1034·0	+6	NE	6	bc	52	65	8	8	–	–	4-6	4-6	1200	0	5
6	1034·1	+18	NNE	5	c	49	75	8	4	4	–	7-8	7-8	2500	0	5
7	1033·6	+4	N	4	c	48	65	8	7	–	–	7-8	7-8	3000	0	4
	1033·6	+12	N	2	2o	42	75	5	5	3	–	7-8	7-8	3000	0	*
8	1032·9	+14	NNW	3	2o	41	65	5	–	3	–	0	2-3	–	1	*
10	1027·8	+4	N	7	ir	46	65	7	9	4	–	4-6	7-8	4000	1	5
	1032·4	+16	N	3	c	42	65	7	5	4	–	4-6	9	2500	0	*
	1030·7	+2	NNW	6	c/pr	44	75	7	9	–	–	7-8	7-8	1100	1	5
11	1031·6	+14	NNW	7	cq	45	75	8	5	4	–	7-8	9+	1500	0	5
	1033·1	+2	NNW	3	c	44	65	8	5	7	8	4-6	9	4200	1	*
12	1034·3	–2	NNW	3	c	44	75	8	5	4	9	4-6	9	5700	0	*
	1033·4	0	–	0	c	39	65	8	5	1	–	2-3	9	2500	1	*
	1034·0	+2	N'E	4	c	48	65	8	4	3	2	4-6	9+	3000	0	4
13A	1037·2	0	N	3	c	49	75	8	5	–	–	9+	9+	2500	0	4
13B	1034·6	–8	WNW	1	c	46	92	7	5	7	–	7-8	10	2000	1	1
15	*	–4	N	3	c	40	65	8	8	3	–	4-6	9	4000	0	*
	1032·1	0	NNW	3	c	40	85	7	8	3	–	4-6	7-8	1700	1	3
	1032·3	–6	NW	2	c	42	75	8	5	7	–	4-6	9+	3000	1	*
16	1029·6	–14	N	4	c	42	65	8	8	7	–	7-8	9+	2000	1	4
17	1039·5	–2	N	3	bc/c	52	92	7	2	–	–	4-6	4-6	1500	1	3
18	1037·2	–4	N	5	c	51	75	7	9	–	–	7-8	7-8	5700	0	5
	1036·3	0	NW	2	c	47	75	8	5	3	–	7-8	9+	6000	0	*
19	1037·9	+4	NNW	1	bc	47	75	8	5	–	5	2-3	4-6	2500	1	*
20	1039·2	+4	NE	4	b	52	75	8	2	–	1	1	1	2500	1	4
	1037·6	+14	N	4	bc	51	75	8	5	4	–	2-3	2-3	2500	0	4

PAST 24 HOURS.

District	Weather. 7h.–13h. 26th. (37)	13h.–18h. 26th. (38)	18h. 26th. to 1h. 27th. (39)	1h.–7h. 27th. (40)
1	bcczoy	bccro	cbcroc	cbczo
	cmpro	prczo	czopro	ezocmo
	moc	cyc	cirobcmo	bcbbcmo
	cmoidobc	bcc	bcmo	bcmoby
	cirobc	bccbc	bcbmo	cmobc
	cqpr	bcqpro	bccmo	cmo
	bcproc	cproc	bcbbcc	c
2	cprobc	bctproc	cbccprb	bcmo
	bcprl	bcprq	bccmo	cmoc
	cprpq	cro phq	cprhq	cqobc
	cproqc	bccprq	cbcpro	bccmo
	ciro, bc	cprobc	bcbmobcm	b, bc, cmo
3	bc	cb	bbz	bcc
	bc	bcczo	cbczo	b
4	cbbc	bc	b	bwcc
5	cprbc	bc	bcc	cbcc
	cproc	cymobcc, mobmo		bccmocx
	c	bc	bc	cbc
	cprocbc	cbcyb	bcb	bbcc
	bc	bc	bc	cpro3
	cpoc	cbc	bc	bc
6	cqpr	c	bcc	epr
7	cbtcc	bcc	cbcc	cdoiro
	bczo	bcczo	bcmobw	cwmdodo
	probcy	bcbzo	bcmo	cmoiro
10	cqir	qir	oir	oqiro
	bcptoc	cybcc	cbcc	ccm-
	cpro	cp	c	cm
11	procq	cqpro	cq	oqirocv
	prqbcjp	bcjpcyc	c	ciroc
12	bwbbcy	bcyc	ccmo	cmobcc
	bccy	c	bcc	c
	bbc	bcc	prc	rcroc
13A	bc	bcc	cid	c
13B	c	c	cpr	cpr
15	bc	c		oc
	cprsroc	cprobc	bcc	cpro
	cproc	cpro	rodorddo	dordodo
16	cproc	c	r	rrrors
17	bc	idoc	bc	bc
18	c	c	ccidoc	c
	bbcc	cbcc	cddmoc	ccidoc
19	bc	bc	*	c
20	cprobc	bcb	cbcb	cprobc
	bc	bc	bc	c

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

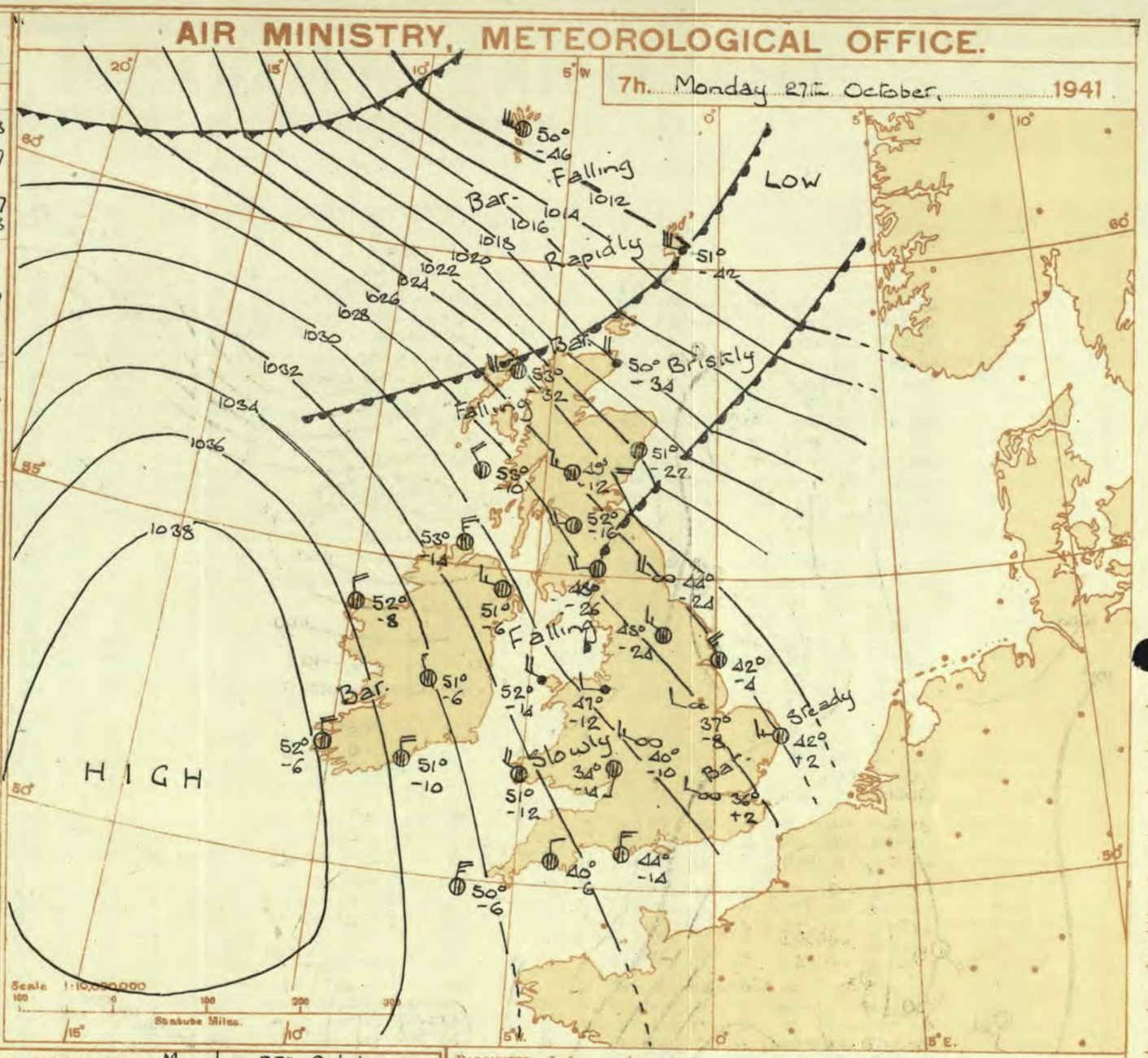
Abridged observations of additional stations in the
AVIATION WEATHER CODE

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
	13h. G.M.T. 26th October			18h. G.M.T.			01h. G.M.T. 27th October			07h. G.M.T.		
109	53	02756	30567	7-	03858	28428	5-	51638	24358	5-	61638	23668
115	53	02844	28427	52	02844	28427	52	81744	28487	52	81744	28487
203	5-	02838	32528									
206	87	02864	32226	07	02990	30127	57	21965	24356	57	02854	26427
210	87	02954	63487	87	02853	61427	5-	52748	22368	5-	02858	26468
220	83	01954	30215	52	03645	28228				52	03635	28428
230	86	01863	32315	53	02876	30427	5-	58638	00068	57	51645	28488
245	86	01864	31385	46	25865	27387	5-	61658	23228	57	02954	24367
260				53	02764	32317	5-	02778	22128	53	05664	22315
278	74	01953	31414	57	02853	30517	52	61854	26268	52	61636	29568
279	53	02965	64515	54	01863	31214	5-	02768	26218	52	0285*	20268
285										5-	03638	28528
288	8-	81647	64487	8-	81557	63487	51	05654	28316	51	028*4	18128
575	44	01584	30314	4-	02864	30415	5-	02855	30325	57	51756	30357
301	40	01864	01414	50	01564	02214	07	05690	32117	02	62438	29368
321	80	25755	65785	86	25755	63486	5-	02778	28318	55	05673	25225
299	80	02745	30715	50	25744	30714	8-	01744	32614	57	01754	24315
292	86	81746	64486	4-	25655	29285	5-	02758	27318	5-	05667	24227
310										--	51428	24428
614	86	02765	65525	44	05662	63324	57	05564	26225	54	05665	26227
333	5-	02956	01416	5-	02866	01326	57	01764	32215	52	62636	26368
334										--	25647	24288
340	26	00762	31413	04	00890	32313	03	05690	30114	5-	21648	26158
136	86	27854	31785	86	25853	64686	8-	25778	28588	46	02753	28487
336										51	02762	28328
350	26	02754	55416	46	02754	62425	5-	05668	28318	5-	05666	26216
368	20	01864	32484	40	01852	32212	50	01763	26103	57	02755	23227
379	8-	02857	32527	50	05661	30421	04	01790	32411	03	02735	26216
390	5-	25657	28587	40	05654	29484	5-	81648	29488	53	05663	26327
382	86	02765	63525	5-	03656	28326	07	05630	30312	57	05661	27203
436	8-	02745	32415							53	03754	02315
430	5-	02855	65455	46	01764	63414	50	05662	30402	05	01790	28325
409	5-	25846	65586	10	01863	01613	5-	02755	00005	52	02851	31308

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

7h. Monday 27th October, 1941



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 27th October, 1941.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Moderate to fresh N.W. wind; cloudy at first and some light rain later; rather cold early, becoming much warmer.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England ↑	Fresh or strong N.W. wind; cloudy, with occasional rain or drizzle; rather warm.
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 ↑	W.N.W. wind strong to gale, veering N.W. later; cloudy, with some rain or drizzle at first, becoming showery later with bright periods; average temperature at first, becoming cold later.
16 Orkneys and Shetlands ↑ 17 N. W. Ireland 18 N. E. Ireland	Fresh or strong N.W. wind; cloudy, with light local rain; average Temperature
19 S. E. Ireland 20 S. W. Ireland	Moderate to fresh N.W. wind; mainly cloudy; 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.

A deepening depression centred between Iceland and Norway is moving S.W., and associated troughs of low pressure are moving southeastwards over the British Isles. There will be occasional rain in most districts with a renewal of showery conditions later. It will be much warmer than of late, but temperatures will fall again later to below average.

FURTHER OUTLOOK.

Continuing very changeable with alternating periods of rain and showers.

↑ Gale Warning in operation in districts 10, 12, 13(a & b), 15 & 16. Times of issue 0430h on 27-10-1941 & 0930h on 27/10/41

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. 9.269/4120. Wt.8176. D.8034. 6p.346.3100.9/41

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

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

Morning of

Monday 27th October

1941.

Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55°N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T. ; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 27th October 1941.
No. 29194

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1029.3	-2	NNW	4	Zo	40	75	6	5	-	-	7-8	7-8	5500
	S. Farnborough	226	1030.8	-2	NW	3	Zo	39	75	6	5	-	-	4-6	4-6	3000
	Boscombe Down	417	1032.6	+2	NW'N	3	b	35	75	7	5	-	-	1	1	4000
	Thorney Island	10	1030.7	+2	NNW	3	Zo	40	75	6	5	-	-	2-3	2-3	4000
	Lympne ...	346	1027.5	+2	NNW	5	Zo	39	92	6	5	-	-	9+	9+	1800
	Manston ...	154	1026.4	-2	NW'N	5	c	42	85	8	8	-	-	9+	9+	2200
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1026.5	0	NNW	4	Zo	42	92	6	5	1	7	2-3	10	6000
	Gorleston ...	5	1026.0	0	NNW	5	c/phr	44	65	6	8	-	-	7-8	7-8	800
	Mildenhall ...	19	1028.5	-2	NW'W	4	c/pr	39	97	7	8	-	-	7-8	7-8	2500
	Cranwell ...	240	1030.0	0	N	3	Zo	40	75	6	5	-	1	4-6	4-6	3500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1031.2	-2	NNW	3	Zo	36	75	6	5	-	-	2-3	2-3	2800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1033.4	-4	N	3	c	49	75	8	5	-	-	7-8	7-8	2500
	Bristol ...	209	1033.2	-6	NNW	1	Zo	36	85	6	-	4	-	0	1	-
	Portland Bill ...	32	1032.3	+4	NNE	3	bc	43	85	7	5	-	-	4-6	4-6	4000
	Plymouth ...	82	1033.5	+2	ENE	2	bc	39	85	6	5	-	-	2-3	2-3	3000
	The Lizard ...	240	1034.8	0	NE	3	bc	43	75	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1035.4	+2	N'E	5	bc	51	65	8	8	-	-	4-6	4-6	1200
	Guernsey ...	175														
6	Pembroke ...	142	1034.5	0	N	5	c	51	85	7	8	7	-	4-6	7-8	2500
7	Holyhead (Valley)	26	1032.9	-12	N	3	c	49	75	8	5	7	-	4-6	9+	2500
	Chester (Sealand)	16	1032.7	-10	WSW	1	c	39	85	7	-	7	7	0	9+	-
8	Manchester ...	235	1032.4	-4	NW	3	Zo	38	75	6	5	7	-	2-3	4-6	4000
10	Spurn Head ...	29	1028.4	-6	NW	6	iR	42	92	7	8	-	-	10	10	2500
	Catterick ...	175	1031.0	-6	NW'N	3	c	42	65	7	5	1	-	2-3	9	5100
	Tynemouth ...	108	1030.0	-8	NNW	5	Zo	41	75	6	2	-	-	7-8	7-8	1500
11	St. Abbs Head	280	1030.3	-6	NW	5	c	44	75	8	5	4	-	4-6	7-8	1500
	Leuchars ...	36	1029.3	-18	W	2	c	42	75	8	5	-	-	10	10	3400
12	Renfrew (Abbots I.)	19	1031.2	-22	W	2	Z	45	85	6	5	-	-	10	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1032.9	-14	N'W	5	cjp	49	75	8	8	2	-	4-6	9+	2000
13A	Tiree ...	22	1032.0	-25	NW	4	c	58	92	7	5	*	*	9	9	1800
13B	Stornoway ...	80	1028.2	-30	WNW	6	pr	51	97	7	5	7	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	119	1025.0	-46	W	2	d.d.	45	97	6	5	-	-	10	10	800
16	Sumburgh ...	30	1022.4	-46	W	3	r.r.	45	97	8	5	2	-	7-8	10	1500
17	Blacksod Point	18	1038.5	-10	NNW	3	c	54	92	7	2	-	-	7-8	7-8	1500
18	Malin Head ...	84	1034.5	-14	N	5	d.d.	54	97	6	6	-	-	9+	9+	800
	Aldergrove ...	268	1034.4	-18	WNW	1	c/d	49	97	7	5	7	-	7-8	9+	2400
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1039.4	-6	N'E	3	b	52	75	8	2	-	-	1	1	2500
	Roches Point	22	1037.7	-6	N	4	bc	50	85	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 27th October — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 26th Hrs. (36)
London (Kew)	1029.6	-2	NW'N	2	Zo	38	75	6	5	7	-	2-3	7-8	4000	1	*	49	38	33	Tr	Tr	2.7
Croydon	1029.3	+2	WNW	2	Zo	36	85	5	5	3	-	4-6	7-8	6000	1	*	49	35	31	Tr	Tr	1.9
S. Farnborough	1030.2	0	W	1	bc	33	85	7	-	3	-	0	2-3	-	0	*	49	33	25	Tr	-	2.8
Boscombe Down	1031.9	-2	N'W	2	c	33	85	7	5	3	-	4-6	7-8	3000	0	*	49	31	24	0.6	-	4.4
Thorney Island	1030.5	0	NW'N	2	bc	37	85	7	5	3	2	2-3	4-6	4000	0	*	51	36	31	Tr	-	*
Lympne	1027.6	+2	NNW	4	Zo	37	85	6	-	3	2	0	9	-	1	§ 3	49	37	34	0.1	-	6.0
Manston	1026.9	-2	NNW	5	Zo	43	85	6	5	7	1	2-3	9+	1000	1	*	50	42	40	1	-	4
Shoeburyness	1027.9	0	NW	3	c	39	85	6	4	7	2	2-3	9	3500	1	*	51	38	34	1	Tr	3.8
Felixstowe	1026.4	-2	NNW	5	c	41	85	8	5	7	-	4-6	9+	4000	1	3	51	40	37	1	-	6.1
Gorleston	1026.1	+2	W	3	c	42	85	6	8	3	-	4-6	7-8	1200	1	3	50	42	38	2	3	*
Mildenhall	1028.0	-4	NW'W	3	Zo	39	85	6	5	7	-	7-8	9	4000	1	*	49	38	34	1	1	4.8
Cranwell	1028.2	-8	W'N	2	Zo	37	85	6	-	7	-	0	9	-	1	*	48	37	34	0.3	Tr	4.7
Birmingham	1029.6	-10	WNW	3	Zo	40	85	5	-	7	-	0	1	-	1	*	48	37	32	-	-	3.7
Upper Heyford	1030.6	-2	NW'W	1	Zo	31	92	6	-	7	-	0	2-3	-	1	*	48	31	32	-	-	*
Ross-on-Wye	1030.3	-14	SSW	1	c	34	92	8	5	7	-	1	9+	3000	1	*	50	33	27	-	-	4.4
Hartland Point	1032.0	-8	N	4	c	51	85	8	5	-	-	10	10	2500	0	4	54	47	43	Tr	-	5.7
Bristol	1031.3	-14	NW	2	c	37	85	7	5	3	1	2-3	9	3500	0	*	51	35	32	-	-	5.4
Portland Bill	1031.0	-14	N	3	bc	44	75	8	5	-	-	4-6	4-6	4000	0	4	52	39	*	-	-	*
Plymouth	1032.3	-6	N	2	c	40	85	6	5	3	-	7-8	9	3000	0	3	57	37	32	Tr	-	5.7
The Lizard	1033.7	-6	NNW	2	c	47	97	8	8	2	-	9	10	1500	1	2	56	43	*	0.5	0.5	5.6
Scilly (St. Mary's)	1034.3	-6	N'E	5	bc	50	75	8	8	3	-	4-6	4-6	1500	0	4	56	49	*	0.1	-	5.5
Guernsey																						
Pembroke	1032.2	-12	NW	4	c	51	85	8	8	-	-	7-8	7-8	2500	0	3	56	45	*	-	-	2.3
Holyhead (Valley)	1030.1	-14	NW	4	ir.	52	92	8	5	2	-	9	10	1000	1		52	46	42	-	1	*
Chester (Sealand)	1029.4	-12	W	2	r.r.	47	97	4	5	-	-	4-6	10	400	1	*	49	36	35	-	0.5	6.5
Manchester	1029.6	-12	S'W	2	ir.	39	85	5	5	2	-	4-6	10	1500	1	*	48	36	32	Tr	Tr	*
Spurn Head	1026.3	-4	NW'N	5	c	42	85	7	8	-	-	9+	9+	4000	1	5	49	41	*	1	2	*
Catterick	1026.6	-24	NW	3	c	45	85	8	5	2	-	7-8	10	4500	0	*	48	44	33	-	-	6.7
Tynemouth	1025.8	-24	WNW	4	Zo	44	85	6	8	-	-	9+	9+	2100	1	4	46	40	38	4	-	*
St. Abbs Head	1023.6	-30	NW	4	c	51	75	8	5	4	-	4-6	7-8	2000	0	3	45	43	*	Tr	Tr	*
Leuchars	1023.6	-18	W	3	c	47	85	8	5	-	5	7-8	9	3200	0	*	47	40	34	Tr	Tr	2.5
Renfrew (Abbots I.)	1026.7	-16	WSW	4	c	52	85	8	5	2	-	9	10	2000	0	*	50	40	39	-	-	5.3
Eskdalemuir	1025.7	-26	W'S	4	c	48	85	8	5	7	-	4-6	9+	2500	1		45	33	26	-	-	4.5
Point of Ayre	1028.5	-16	NNW	5	cjp	54	85	7	6	7	-	7-8	10	800	1	5	50	47	*	-	1	6.9
Tiree	1029.2	-10	NW'N	4	c	53	85	7	5	-	-	9+	9+	1800	0	5	51	49	*	-	0.2	9.8
Stornoway	1024.0	-32	WSW	6	c/pr	53	92	7	5	7	-	7-8	10	1500	1	4	47	46	*	-	2	0.9
Dalwhinnie	1024.0	-12	WNW	3	c	49	75	7	6	-	-	9+	9+	1500	0	*	42	38	34	Tr	-	0.8
Aberdeen	1021.2	-22	SSW	4	c	51	85	8	8	-	-	10	10	1500	1	2	43	39	36	1	0.5	0.8
Wick	1018.8	-34	NW	4	d.d.	50	97	6	5	-	-	10	10	600	1	*	44	40	38	0.1	1	*
Sumburgh	1013.6	-42	WNW	6	r.r.	51	97	5	6	-	-	10	10	300	1	*	43	41	38	Tr	3	0.0
Blacksod Point	1036.0	-8	NNW	4	c	52	85	7	4	-	-	4-6	7-8	2500	0	3	55	49	*	Tr	1	*
Malin Head	1031.5	-14	N'W	5	c	53	85	7	8	-	-	7-8	7-8	1500	0	5	57	52	47	-	0.3	5.4
Aldergrove	1031.4	-6	WNW	3	c	51	92	7	5	7	-	9	9+	900	1	*	52	46	47	-	1	6.6
Birr Castle	1035.1	-6	NNW	1	c	51	85	8	5	1	-	7-8	9+	2500	1	*	55	43	38	-	-	6.1
Valentia Obsy.	1038.0	-6	N'W	4	c	52	85	8	7	-	-	7-8	7-8	2500	1	5	58	52	47	Tr	Tr	6.4
Roches Point	1035.3	-10	N	4	c	51	85	8	5	-	-	9	9	1500	0	4	56	48	*	-	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew ...	18	beczy	beer.	cber.ez.	49	38	33	Tr	Tr	2.7	*	*	6
Croydon ...	217	cmpr.	pr.ez.	cz.pr.cm.	49	35	31	Tr	Tr	1.9	*	*	5
Greenwich (Royal Observatory)...	149	cr.c	cir.y	cr.cbcm.	49	39	33	Tr	Tr	1.9	59	60	5
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	51	39	35		-		77	71	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	49	38	34	-	-		63	63	*
Camden Square ...	110	be	be	*	49	38	35	Tr	-	*	*	63	*
Kensington ...	80	be	bc	*	50	38	34	-	-		69	64	*
Hampstead Observatory ...	450	bc	c	bc	47	35	32	-	-		*	69	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 27th.

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0.2	7h 27th	<0.1	whole period

FOREIGN OBSERVATIONS.

Stations	Evening of 26th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 27th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h) ...	1028.7	SW	4	dd	50	1023.1	W	5	b	46	*	*	*	*
Lisbon (18h and 07h) ...	1023.9	NE	5	b	52	1024.0	ENE	5	b	59	61	48	-	-
¶Madrid (18h and 07h) ...														
Cairo (Heliopolis) (18h and 06h) ...	1017.7	NE	4	b	71	1016.5	N	2	bc	65	81	60	-	-
Toronto (13h and 01h) ...														
Washington (13h and 01h) ...	1031.3	-	0	bc	*									

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 —Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 ,,
2 Fog 550 ,,
3 Moderate fog 1,100 ,,
4 Mist or haze 1½ miles.
5 Poor visibility 2½ ,,
6 Moderate ,, 6¼ ,,
7 Good ,, 12½ ,,
8 Very good ,, 31 ,,
9 Excellent ,, beyond 31m.

COLUMN 30—Code for State of Sea.

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

TERMS OF SUBSCRIPTION. { Single Copies, 1d. each: by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year. METEOROLOGICAL OFFICE, AIR MINISTRY, KINGSWAY, LONDON W.C.2 N. K. JOHNSON, D.Sc., A.R.C.S., Director.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Tuesday 28th October 1941.

No. 29,195

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1026.2	-20	WSW	2	id	45	85	6	5	2	-	7-8	10	1500
	Croydon	1026.5	-26	W	2	z	48	75	6	-	7	-	0	10	-
	S. Farnborough	1028.4	-14	W	3	o/d	45	92	6	-	2	-	10	10	2000
	Boscombe Down	1027.5	-28	W	3	c/p	50	85	7	5	7	-	4-6	9+	3000
	Thorney Island	1027.4	-28	WNW	2	c	49	75	6	5	1	-	2-3	10	4000
	Lympne	1025.8	-14	WNW	2	z	46	65	6	5	-	-	9+	9+	7000
	Manston	1025.4	-14	NWW	3	z	47	65	6	-	7	-	0	9+	-
2	Shoeburyness	1025.7	-20	NW	3	c	48	65	6	5	-	-	10	10	5700
	Felixstowe	1024.1	-22	WNW	4	z	47	65	6	-	7	-	0	9+	-
	Gorleston	1022.4	-34	W'S	3	r	48	65	7	5	4	-	4-6	7-8	1800
	Mildenhall	1024.7	-26	SWW	4	rr	46	92	6	5	-	-	9+	9+	2500
	Cranwell	1022.1	-42	W'S	4	m	51	85	4	-	-	2	0	4-6	-
3	Birmingham	1025.4	-18	NW	3	rr	51	97	4	6	-	-	10	10	800
	Upper Heyford	1026.0	-30	NW'W	3	c	52	85	8	7	7	-	4-6	9+	1500
4	Ross-on-Wye	1026.3	-26	W	3	c	56	75	8	8	3	-	9+	10	3000
5	Hartland Point	1029.8	-18	NNW	3	c	54	85	8	8	6	-	7-8	9+	1600
	Bristol	1027.7	-10	W	3	c	55	86	6	5	3	-	4-6	9+	3000
	Portland Bill	1028.1	-24	WNW	3	c	53	85	8	2	4	8	7-8	10	4000
	Plymouth	1029.6	-20	NNW	3	c	55	85	8	5	-	2	7-8	9+	1800
	The Lizard	1031.7	-16	NW	4	c	55	85	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	1033.0	-14	NW	4	cjp	55	85	8	8	-	-	9+	9+	1500
	Guernsey														
6	Pembroke	1030.2	-12	NW	5	c	54	75	7	8	-	-	9+	9+	2500
7	Holyhead (Valley)	1027.1	-16	NW'W	4	c	55	85	8	5	4	6	7-8	9	2000
	Chester (Sealand)	1025.3	-20	WNW	5	c/r	54	85	6	5	2	-	7-8	10	1200
8	Manchester	1025.0	-26	WNW	4	c	52	92	6	5	7	-	4-6	10	1000
10	Spurn Head	1021.3	-40	W	4	m	52	75	4	5	5	-	4-6	9	1500
	Catterick	1020.8	-32	NW	5	c	55	75	7	6	7	8	tr	10	2500
	Tynemouth	1019.4	-26	W	4	c	55	75	6	8	3	1	4-6	9+	2100
11	St. Abbs Head	1016.2	-48	W	7	c	55	75	7	5	7	8	4-6	10	2500
	Leuchars	1015.8	-46	W	4	c	56	75	9	8	7	-	7-8	10	3500
12	Renfrew (Abbots L.)	1019.4	-58	W'N	4	c	56	65	7	5	1	-	4-6	10	2500
	Eskdalemuir	1019.7	-36	NW'W	4	c	54	75	8	5	7	7	2-3	9+	2500
	Point of Ayre	1025.3	-20	NW'N	5	c	55	85	7	9	3	-	7-8	9+	800
13A	Tiree	1023.6	-26	NW'W	5	rr	54	97	5	-	2	-	10	10	800
13B	Stornoway	1017.2	-36	W	7	c	53	85	8	5	7	-	7-8	10	2000
15	Dalwhinnie	1014.7	-56	WNW	4	id	52	85	7	5	-	-	10	10	1500
	Aberdeen	1012.0	-50	WNW	4	c/r	55	85	7	6	7	-	4-6	10	1200
	Wick	1009.3	-62	WNW	7	c	51	75	8	5	7	-	7-8	9+	1200
16	Sumburgh	1003.1	-42	NW'W	7	pr	48	85	7	8	-	-	9	9	1500
17	Blacksod Point	1032.9	-16	NW	5	c	56	85	8	4	-	9	2-3	7-8	2500
18	Malin Head	1026.2	-30	NW	5	c	55	85	7	5	-	-	9	9	1500
	Aldergrove	1027.0	-34	WNW	4	c/r	55	75	7	5	5	7	2-3	10	1400
19	Birr Castle	1031.8	-22	W	2	r	52	92	7	6	2	-	4-6	10	1500
20	Valentia Obsy. †	1035.4	-16	NW'N	4	c	55	75	8	8	3	3	4-6	9+	4000
	Roches Point	1032.9	-18	N'W	5	c	56	75	8	8	3	-	4-6	7-8	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1020.2	-28	WSW	3	z	51	85	6	5	7	-	7-8	9+	2500	1	*
Croydon	1020.7	-38	WSW	3	z	50	92	5	5	7	-	1	10	2000	1	*
S. Farnborough	1020.9	-30	W	3	z	51	85	6	5	3	-	2-3	9+	2500	1	*
Boscombe Down	1022.8	-16	WNW	3	c/p	49	85	6	5	7	-	2-3	7-8	2500	0	*
Thorney Island	1022.1	-24	WNW	3	z	53	92	5	5	7	-	7-8	9+	4000	0	*
Lympne	1020.9	-26	WSW	3	z	46	92	6	5	-	-	10	10	1800	1	§
Manston	1019.1	-30	W'S	3	z	47	92	6	5	-	-	10	10	5000	1	*
Shoeburyness	1019.4	-30	WSW	3	id	50	85	4	5	-	-	10	10	2500	1	*
Felixstowe	1018.4	-4	WSW	4	z	48	85	5	-	7	-	0	10	-	1	2
Gorleston	1016.6	-36	W	3	z	47	85	5	5	-	-	10	10	800	1	3
Mildenhall	1017.3	-28	W	4	z	50	97	6	5	7	..	2-3	9+	4000	1	*
Cranwell	1016.3	-36	W	3	z	51	85	6	5	7	6	2-3	9+	4000	0	*
Birmingham	1020.3	-24	WNW	3	z	50	85	5	5	-	-	9+	9+	2500	1	*
Upper Heyford	1020.3	-30	WNW	4	c	50	85	7	5	7	-	7-8	9+	2000	1	*
Ross-on-Wye	1021.7	-26	W	3	c	51	75	8	5	1	-	4-6	9+	3000	1	*
Hartland Point	1025.5	-22	NW	4	o	54	75	8	8	2	-	7-8	10	1500	0	4
Bristol	1023.7	-14	WNW	3	z	50	85	6	5	7	-	2-3	9+	3500	0	*
Portland Bill	1023.5	-20	NW	4	c	54	85	8	5	-	-	7-8	7-8	2500	0	4
Plymouth	1025.9	-14	WNW	3	z	52	85	6	8	-	2	7-8	9	2000	0	3
The Lizard	1027.9	-20	NW	4	c/d	52	85	8	8	2	-	7-8	9	1500	1	3
Scilly (St. Mary's)	1029.3	-20	NNW	5	c/pr	53	85	8	8	4	-	7-8	9+	1500	1	4
Guernsey																
Pembroke	1025.7	-20	NW	6	cq	54	85	7	8	-	-	9+	9+	2000	0	3
Holyhead (Valley)	1021.7	-28	WNW	6	c	54	85	7	5	7	-	7-8	9+	2500	0	4
Chester (Sealand)	1019.6	-34	W	5	z	54	85	6	5	2	-	7-8	10	2000	1	*
Manchester	1018.4	-32	W	6	r	52	92	5	5	2	-	4-6	10	800	1	*
Spurn Head	1013.0	-32	W	6	c	52	75	6	5	-	-	9+	9+	2500	0	4
Catterick	1010.6	-64	WNW	6	c	55	75	7	5	7	-	9	10	1000	0	*
Tynemouth	1010.8	-32	WNW	6	c	54	75	6	5	-	-	9+	9+	2200	1	4
St. Abbs Head	1008.2	0	W	8	cq	53	65	7	5	7	-	4-6	7-8	2500	0	4
Leuchars	1010.4	-2	W	3	bc	52	65	8	5	-	-	4-6	4-6	3500	0	*
Renfrew (Abbots L.)	1013.7	-46	WNW	6	bc	51	75	8	4	4	8	1	2-3	3000	1	*
Eskdalemuir	1011.6	-50	W'N	7	c	50	65	7	5	-	-	9+	9+	1500	1	*
Point of Ayre	1017.8	-20	NW	7	c	54	85	8	9	4	5	4-6	9+	1000	1	5
Tiree	1017.5	-12	NW	6	tc	53	85	7	8	-	-	4-6	4-6	1800	0	6
Stornoway	1013.4	-10	WNW	6	c	51	75	8	5	7	-	7-8	9+	1800	1	4
Dalwhinnie	1012.5	-30	NW	4	c	47	65	7	8	4	-	7-8	7-8	2500	0	*
Aberdeen	1007.2	-18	NNW	6	bcq	49	75	7	6	3	-	4-6	4-6	1400		4
Wick	1007.0	-10	NW'W	6	z	47	85	6	2	7	-	2-3	9+	1400	1	
Sumburgh	1001.3	-6	NW	8	c	47	75	8	8	3	-	4-6	7-8	1500	1	8
Blacksod Point	1028.6	-18	NW'W	5	o/p	52	92	7	5	-	-	10	10	800	1	4
Malin Head	1019.8	-32	NW	8	bc	53	75	6	6	1	-	2-3	4-6	1500	0	5
Aldergrove	1021.3	-22	W'N	4	o	52	85	8	5	4	6	4-6	9	1600	1	*
Birr Castle	1027.2	-14	W	3	c	52	85	8	5	1	-	9	10	4000	1	*
Valentia Obsy. †	1032.1	-16	NNW	5	c/pr	54	75	8	8	-	-	9+	9+	2500	1	4
Roches Point	1029.5	-14	NW'N	5	c	53	85	8	5	-	5	4-6	7-8	2500	0	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 27th (37)	Weather 13h.—18h. 27th (38)	Weather 18h. 27th to 1h. 28th (39)	Weather 1h.—7h. 28th (40)
London (Kew)	cidm	mrmcm	cm	cz
Croydon	cmcz	cirm	cmr	rczr
S. Farnborough	bcmcdd	cbccdm	cm	cmdrq
Boscombe Down	bccmid	ccir	bccm	bcpc
Thorney Island	bccm	circm	cbcm	prc
Lympne	cbcm	cm	cmir	cmir
Manston	cm	czm	cmirm	cbcirm
Shoeburyness	cmzc	zdmdc	cm	cPRpr
Felixstowe	cm	cm	cm	cirzbc
Gorleston	cpr	cm	bcz	cpr
Mildenhall	crSm	crrcm	cmc	bccirbc
Cranwell	cmbcz	czm	cmz	czpr
Birmingham	corm	rcmz		oirc
Upper Heyford	cdd	cidc	c	crrc
Ross-on-Wye	p	c	ceq	ceqp
Hartland Point	crir	circ	circ	
Bristol	c	c	bcmbc	bmc
Portland Bill	c	c	c	c
Plymouth	cmmc	cprcm	cmir	cirmbc
The Lizard	c	cidc	bcc	cq bcq
Scilly (St. Mary's)	c	cp	c	cbcc
Guernsey				
Pembroke	c	prcq	bccq	bccq
Holyhead (Valley)	c	c	bcc	iRc
Chester (Sealand)	cmr	dmc	czq	
Manchester	crrSm	cmir	ircr	crirq
Spurn Head	cm	c	cq	cqir
Catterick	circ	c	cbbc	bprbv
Tynemouth	cbcc	c	c	c
St. Abbs Head	c	ircq	bcqpr	cqpr
Leuchars	c	cpcc	b	bbc
Renfrew (Abbots L.)		cprbc	bcbbc	bbcc
Eskdalemuir		cir	bcc	crrcbc
Point of Ayre	cprc	prq	prc	bbc
Tiree		cbc	bcc	bcprc
Stornoway		c	cpr	cpr
Dalwhinnie		oc		oprc
Aberdeen	ccir	cbcqir	bcqcir	cir
Wick	ddc	cprcm	rrbccpr	
Sumburgh	rmpr	cprbc	rrcpr	bcb, c
Blacksod Point	bc	irc	bcq	cq
Malin Head	c	c	bcbccpr	cprc
Aldergrove	c, idir	rrm	cprbc	bcprbc
Birr Castle	cir	c	*	c
Valentia Obsy. †	bccpsc	bccpsc	ccpr	cprc
Roches Point	c	c	irbc	bc

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$_0$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_0$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

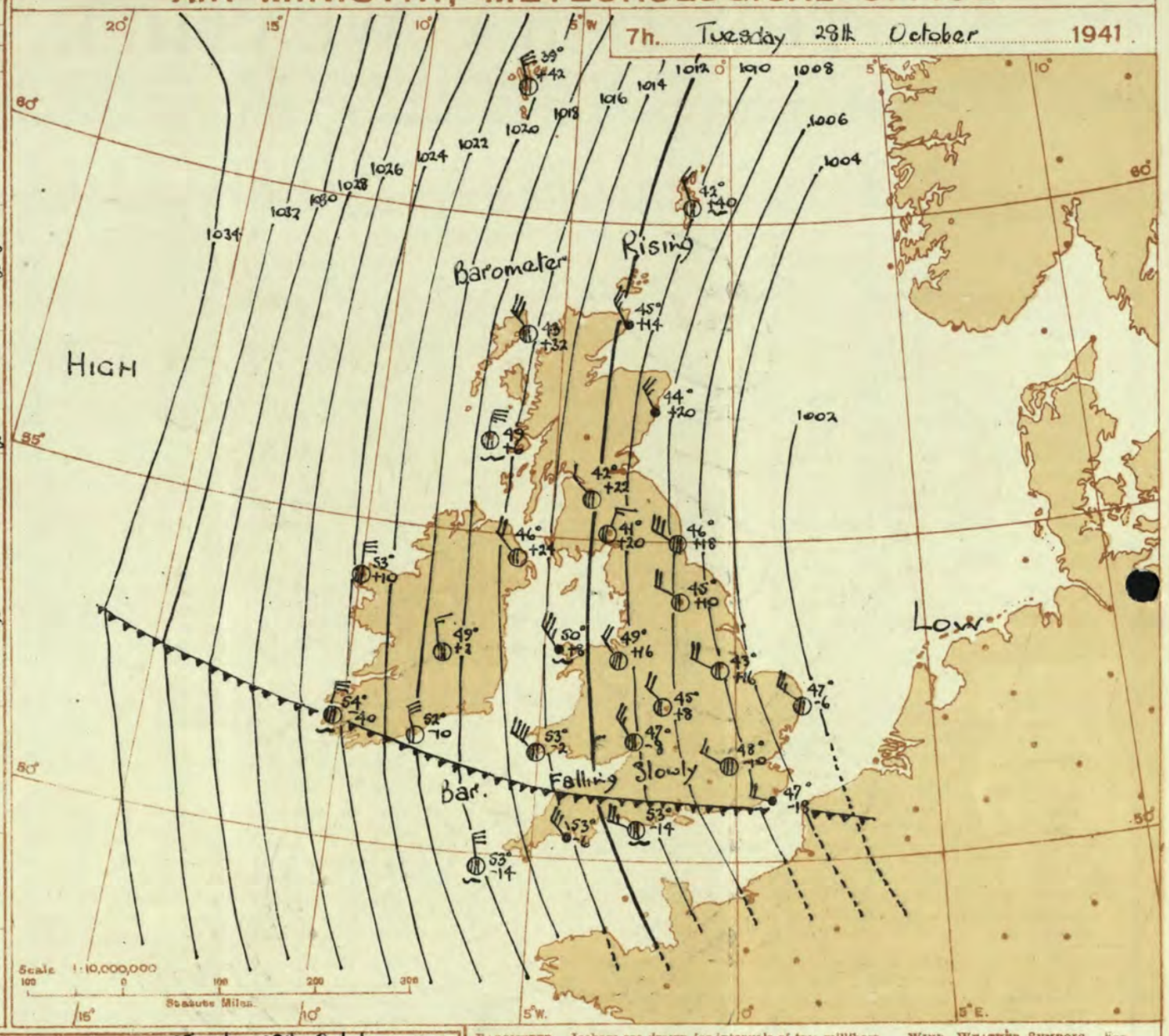
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 27th October				18h. G.M.T.				01h. G.M.T. 28th October				07h. G.M.T.			
III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN		C_L C_M	wwVhN$_h$	DDFWN		C_L C_M	wwVhN$_h$	DDFWN	
109	3 2	62635	59868	52	02643	59628		50	01744	62784		80	81645	64785	
115	52	81735	28888	52	81734	78857		52	81844	32786		52	81844	61685	
203	5-	03838	24568					5-	63835	32625		9-	82838	32788	
206	82	02964	59468	8-	81855	63585		80	25854	61484		8-	81845	63585	
210	67	02834	57767	86	02755	58527		8-	01944	61684		8-	51854	63684	
220	81	02845	28528	82	03636	28628									
230				63	01790	29313		50	22854	28864		80	10853	29783	
245	82	61956	57567	50	02965	25565		50	81751	64761		50	14943	64883	
260	37	02864	24523	57	02764	59525						57	02965	30317	
27883		25745	26587	84	02844	61567		50	06743	28713					
279	57	02745	28827	57	02753	23567		50	00863	28413		5-	02765	28415	
285				5-	21638	28658						23	01853	30614	
288	87	02825	59427	52	02765	55528		5-	02786	60516		5-	05666	59416	
37857		02743	28553	5-	21746	28557		5-	02757	61527		5-	02757	63127	
301	5-	05644	61568	52	22654	61768		2-	25648	61788		20	01653	63503	
321	57	05583	25425	51	05651	24528		50	25673	26483		59	02744	29515	
299				5-	*	*		5-	02748	23528		80	61744	32854	
292				51	02853	56428		50	01753	58523		50	01864	60514	
310				--	46209	26547						--	01634	26524	
644	57	05664	24366	62	05654	57428						57	05654	63465	
333	53	02746	26527	53	02755	26526		8-	01754	61814		8-	25746	63686	
334	--	25646	36287	--	03647	30228						--	51537	30388	
340	53	02745	28367	57	02764	26367		57	02664	28327		50	01754	30464	
136	57	22563	20466	07	05590	25427		54	00762	59523		5-	02866	28766	
336												62	64763	28568	
350	5-	22358	25444	57	05654	24357		5-	05667	26427					
368	84	02744	25315	57	61663	28426		52	31645	57567		57	63756	26468	
379				53	01764	24384		50	01754	57514		5-	22746	61666	
390	57	05655	24328	57	21554	25368		52	61667	24568		5-	22657	59567	
382				53	05652	24227		57	02764	60426		57	02845	25426	
428	56	01763	26314												
430	5-	51748	24228	57	61556	24268		5-	02764	25425		8-	25855	26485	
409	52	61636	30468	32	81646	20428		52	02744	28628		80	81757	30787	

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



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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 28th October 1941
1 S.E. England 2 E. England ... ▲ 3 E. Midlands ...	Strong squally north to north-northeast wind, moderating slowly; squally showers of rain or hail but some bright periods; cold.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Strong squally north to north-northeast wind, moderating slowly; local showers of rain or hail and bright periods: rather cold.
7 North Wales ...	As 1-3.
8 N.W. England 9 N. Midlands ...	As 4-6.
10 N.E. England ▲ 11 S.E. Scotland ▲	Squally north to northeast wind, strong to gale at first but moderating slowly; occasional showers of rain or hail but some bright periods: cold.
12 S.W. Scotland & Isle of Man. 13A. W. Scotland	As 4-6.
13B. N.W Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands 17 N. W. Ireland 18 N. E. Ireland	As 10-11.
19 S. E. Ireland 20 S. W. Ireland	Fresh squally north-northeast wind, moderating slowly; local showers and bright periods; rather cold.

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 West and low to the East of the British Isles. There will be showers of rain or hail in most districts but some bright periods.

Temperatures will be generally below average.

FURTHER OUTLOOK.

Squally northwesterly winds, showers, bright periods, cold

▲Northerly gale warning now in operation in districts 10 11. 15. Time of issue 0930 27/10/41. Also district 2, 0430 27/10/41.

Forecasts issued at 10:30

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

H.M.S.O. Press, Meteorological Office Dunstable. 9.269/4120.Wt.8176.Q.8034.6p.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

Tuesday 28th. October

1941.

Clarke's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships, 0h. 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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 28th October 1941.

No. 29,195

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1012.0	-34	W	3	ic	50	85	6	5	7	-	9	10	2500
	S. Farnborough	226	1013.0	-32	W	3	z	49	85	6	5	-	-	9+	9+	4200
	Boscombe Down	417	1013.8	-44	W'N	4	c	50	85	7	5	7	-	7-8	7-8	2200
	Thorney Island	10	1014.0	-38	W	4	z	51	85	6	5	7	-	2-3	4-6	3500
	Lympne	346	1012.6	-38	W	3	z	49	85	6	5	-	-	10	10	1500
	Manston	154	1009.7	-42	W	5	z	50	85	6	5	-	-	10	10	1500
2	Shoeburyness	11	1011.0	-36	W'S	3	c	51	85	6	5	*	-	7-8	7-8	2500
	Felixstowe	15	1008.7	-34	W	5	z	51	85	6	-	7	-	0	9+	-
	Gorleston	5	1008.2	-28	W	3	z	49	75	5	5	-	-	4-6	4-6	1500
	Mildenhall	19	1008.9	-38	W'N	4	c	50	85	7	5	7	-	4-6	7-8	4100
	Cranwell	240	1008.2	-32	NW	5	z	50	65	6	5	-	-	7-8	7-8	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1011.6	-26	NW	4	c	51	65	7	5	-	-	10	10	3800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1018.1	-34	NNW	5	c	54	75	7	5	2	-	7-8	9+	800
	Bristol	209	1014.6	-34	WNW	5	z	51	85	6	5	-	-	2-3	2-3	2600
	Portland Bill	32	1015.4	-38	W	4	c	51	92	7	5	-	-	10	10	2500
	Plymouth	82	1018.8	-34	W	6	ic	53	85	6	5	7	-	4-6	9+	1500
	The Lizard	240	1021.8	-30	NW	6	c	54	85	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1023.4	-32	NW'N	6	c	54	75	8	8	7	-	7-8	10	1500
	Guernsey	175														
6	Pembroke	142	1018.0	-12	NW	8	bcq	54	65	7	8	-	-	4-6	4-6	2500
7	Holyhead (Valley)	26	1014.6	-12	NW	7	c	52	75	8	8	7	-	4-6	9+	3100
	Chester (Sealand)	16	1011.4	-38	WNW	6	pr	52	75	6	5	-	-	4-6	4-6	3000
8	Manchester	235	1010.9	-30	WNW	5	rr	50	85	6	-	2	-	10	10	800
10	Spurn Head	29	1005.5	-20	WNW	6	bcq	50	75	7	5	-	-	4-6	4-6	2500
	Catterick	175	1007.0	-36	NW'N	5	bc	49	65	7	5	-	-	2-3	2-3	2800
	Tynemouth	108	1006.2	-20	NW	6	c	48	65	6	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	1005.4	-2	WNW	7	cq	48	75	7	5	7	-	4-6	7-8	1500
	Leuchars	36	1006.8	0	NW	4	b	45	75	8	5	-	-	1	1	3200
12	Renfrew (Abbots I.)	19	1009.2	-6	NW	5	b	48	75	7	5	-	-	Tr	Tr	2800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1011.4	-22	NNW	8	c	53	65	8	8	1	1	7-8	9	1000
13A	Tiree	22	1015.8	0	N'W	6	c	54	75	7	8	*	*	7-8	7-8	1500
13B	Stornoway	80	1014.3	+12	NW	6	pr	44	92	7	8	7	-	7-8	9+	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	42	*	*	*	*	*	*	*	*
	Wick	119	1007.7	+20	NW	5	pr	44	85	7	8	-	1	9+	9+	1000
16	Sumburgh	30	1003.7	+14	N	4	bc/pr	45	92	8	8	-	-	4-6	4-6	2000
17	Blacksod Point	18	1024.2	-12	NWN	5	bcq	53	75	7	2	-	-	4-6	4-6	1500
18	Malin Head	84	1017.2	-22	NNW	8	c	53	75	6	9	-	-	7-8	7-8	1500
	Aldergrove	268	1015.7	-20	NW'W	5	pr	50	75	7	8	-	-	4-6	9+	2500
19	Birr Castle	173														
20	Valentia Obsy.	30	1027.7	-18	NNW	6	pr	55	75	8	8	-	-	9+	9+	2500
	Roches Point	22	1021.5	-44	NW'W	8	bc	54	85	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 28th October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 27th Hrs. (36)
London (Kew)	1006.6	-8	WNW	3	z	48	75	6	5	-	-	10	10	1500	1	*	51	48	45	Tr	-	3.1
Croydon	1006.6	-10	NW'W	4	c/r	48	75	7	5	-	-	9	10	500	1	*	50	47	43	Tr	Tr	3.7
S. Farnborough	1007.3	-14	NW'W	4	ic	47	85	7	5	-	-	9+	9+	2000	1	*	53	46	45	Tr	0.1	1.8
Boscombe Down	1008.9	-14	NW'N	4	c/pr	48	75	7	5	7	-	7-8	9+	2000	1	*	54	47	42	Tr	Tr	2.2
Thorney Island	1003.2	-22	NW	4	c/pr	50	75	7	5	7	-	4-6	7-8	2500	0	*	53	39	34	Tr	Tr	*
Lympne	1006.2	-18	NW'W	4	ic	47	85	7	6	2	-	9+	10	1500	1	§	48	44	41	-	0.4	2.7
Manston	1003.9	-14	NW'W	5	c/p	48	75	6	5	3	-	7-8	9+	2000	1	*	49	47	44	-	9	5.1
Shoeburyness	1005.9	-8	WNW	4	pr	46	85	7	3	4	-	7-8	9	2200	1	*	50	46	40	Tr	1	1.8
Felixstowe	1003.8	-10	NW'N	5	bc	48	75	7	5	-	-	4-6	4-6	4000	1	4	50	48	44	-	0.1	1.7
Gorleston	1003.2	-6	NNW	5	c/pr	47	85	7	8	-	-	9	9	1000	1	3	49	45	43	Tr	2	*
Mildenhall	1005.1	+2	NW	4	bc	44	92	8	5	7	-	2-3	4-6	2500	1	*	51	44	39	Tr	0.3	1.6
Cranwell	1006.7	+16	NW	4	bc	43	75	8	5	-	-	2-3	2-3	3500	1	*	54	43	40	-	Tr	0.8
Birmingham	1009.7	+8	NNW	4	bc	45	85	6	6	7	-	2-3	4-6	1500	1	*	52	45	40	2	2	0.1
Upper Heyford	1008.6	-10	NNW	6	pr	44	85	6	5	-	-	7-8	7-8	2200	1	*	53	44	42	Tr	1	*
Ross-on-Wye	1010.1	-8	NNW	5	bc/pr	47	75	8	6	-	-	2-3	2-3	2500	1	*	57	47	42	Tr	0.5	0.4
Hartland Point	1014.2	-14	NW	6	c	53	65	7	8	6	-	7-8	9+	2000	0	5	55	52	50	0.4	Tr	[illegible]
Bristol	1010.8	-8	WNW	4	c/pr	49	75	7	8	-	-	9+	9+	2200	0	*	56	49	46	Tr	0.1	[illegible]
Portland Bill	1010.6	-14	WNW	5	c	58	92	8	5	2	-	7-8	10	2500	0	5	56	49	*	-		*
Plymouth	1014.0	-6	NNW	6	ic	53	65	7	5	1	-	9	9+	1000	1	4	56	51		Tr	Tr	
The Lizard	1016.3	-20	NW	8	cq	52	65	8	8	2	-	9	10	1500	0	5	57	50	*	Tr	-	1.2
Scilly (St. Mary's)	1018.7	-14	NW	6	c	53	75	8	8	-	-	9	9	1500	0	5	57	52	*	0.2	-	1.1
Guernsey																						
Pembroke	1014.7	-2	NW	8	c	53	65	7	8	-	-	9	9	2500	0	3	55	51	*	Tr	-	*
Holyhead (Valley)	1013.0	+8	NNW	7	pr	50	75	6	8	-	-	9	9	1200	1	5	57	49	45	0.2	1	*
Chester (Sealand)	1011.4	+16	NNW	4	c	49	75	8	5	-	-	9+	9+	1500	1	*	54	49	41	2	2	0.0
Manchester	1010.4	+24	WNW	3	bc	45	65	6	4	6	-	4-6	4-6	2500	1	*	52	44	33	2	1	*
Spurn Head	1003.5	-18	NW	7	R	45	85	6	6	-	-	10	10	1500	1	5	54	42	*	-		1.1
Catterick	1008.0	+10	NW	4	bc	45	65	7	5	-	-	4-6	4-6	2000	0	*	55	44	38	-	0.3	1.0
Tynemouth	1007.9	+18	NW	6	c	46	65	7	8	-	-	9+	9+	1200	1	4	55	45	41	-	-	*
St. Abbs Head	1007.5	+10	NNW	7	cq	47	65	9	5	4	-	4-6	7-8	2500	0	4	56	45	*	Tr	Tr	*
Leuchars	1010.0	+18	NW	3	bc	46	65	8	8	-	-	4-6	4-6	2500	0	*	58	44	39	Tr	-	0.4
Renfrew (Abbots I.)	1013.0	+22	NW	1	c	42	85	8	5	-	-	9	9	2000	0	*	57	46	32	Tr	-	0.0
Eskdalemuir	1010.5	+20	NE'N	3	b	41	65	8	5	-	-	1	1	2500	1	*	55	33	34	Tr	0.5	0.7
Point of Ayre	1012.9	+12	N	7	bc	50	65	8	8	4	-	2-3	4-6	2500	0	5	55	48	*	0.2	0.2	0.3
Tiree	1017.3	+6	N	7	c/pr	49	75	8	8	-	-	7-8	7-8	1500	0	7	54	48	*	0.4	0.2	0.0
Stornoway	1018.4	+32	NW	6	c/pr	43	97	7	8	7	-	7-8	9+	1500	1	4	53	42	*	0.4	3	0.0
Dalwhinnie	1014.4	+4	N	3	ir	41	75	7	5	-	-	9+	9+	2500	1	*	52	38	35	Tr	1	0.0
Aberdeen	1009.1	+20	NNW	5	ic	44	85	6	9	2	-	9	9+	1400	1	3	56	41	38	Tr	3	0.1
Wick	1011.9	+30	NNW	5	bcjp	45	75	8	2	-	-	4-6	4-6	1500	1		53	43	*	1	2	*
Sumburgh	1010.5	+40	NNW	4	c	42	75	8	8	-	-	9+	9+	2000	1	*	51	40	35	0.3	1	0.5
Blacksod Point	1024.5	+10	N	6	cq	53	65	8	9	-	-	7-8	7-8	1500	0	4	56	50	*	0.2	Tr	*
Malin Head	1019.6	+18	NNW	8	c/pr	50	97	8	9	-	-	7-8	7-8	2500	0	7	55	47	*	0.1	0.2	0.0
Aldergrove	1017.3	+24	NNW	4	bc/pr	46	85	7	8	-	9	4-6	4-6	2000	1	*	56	45	43	1	0.2	0.3
Birr Castle	1020.8	+2	NNW	3	c	49	85	8	3	7	-	4-6	9	1500	1	*	55	48	47	0.1	0.1	0.5
Valentia Obsy.	1024.9	-10	N'W	6	c	54	65	8	2	-	-	9	9	2500	1	5	57	53	51	Tr	Tr	2.0
Roches Point	1019.4	-10	NNW	6	bc	52	75	8	5	-	-	4-6	4-6	2500	0	4	57	51	*	-	0.3	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temp. Day Max. °F.	Temp. Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	cid₀m	mrmc	cmz	51	48	45	Tr	-	3.1	•	•	6
Croydon	217	cmcz	cirm	cm₀c	50	47	43	Tr	Tr	3.7	•	•	6
Greenwich (Royal Observatory)	149				51	46	41	0.3	Tr	1.4	78	62	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park)	27	•	•	•	52	44	43	-			92	71	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	52	43	43	-	Tr		72	63	•
Camden Square	110	bc	bc	•	51	43	39	-	0.3	*	•	66	•
Kensington	80	bcc	cm	•	51	45	40	Tr	1		86	67	•
Hampstead Observatory	450	bc	oc	bc	50	41	37	Tr	-		•	70	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 28th

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.3	8h. 27th	<0.1	0-4h. 28th

FOREIGN OBSERVATIONS.

Stations	Evening of 27th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Morning of 28th October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1030.4	N	5	bc	41	1033.6	-	0	c	36	*	*	*	*
Lisbon (18h and 07h)	1020.1	ENE	2	b	63	1020.9	NE	4	b	48	66	46	-	-
¶Madrid (18h and 07h)	3004.8	NNE	3	b	50						55		-	
Cairo (Heliopolis) (18h and 06h)	1013.3	NE	3	b	74	1013.0	E'N	2	bc	68	84	59	-	-
Toronto (13h and 01h)	1002.1	SSW	5	p8	21									
Washington (13h and 01h)						1009.5	SSW	3	r₀r₀	63	65	54		ll

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1¼ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

COLUMN 30—Code for State of Sea.

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

Page 1. AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Wednesday 29th October 1941.

No. 29136

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1008·8	0	NNW	5	c	51	45	7	5	–	–	9+	9+	2500
	Croydon ...	1008·1	-2	NWN	6	c	50	65	6	5	–	–	9	9	3600
	S. Farnborough	1009·1	+2	NWN	5	c	51	55	8	7	–	–	7-8	7-8	2500
	Boscombe Down	1011·4	0	NNW	5	bc	51	55	8	7	6	–	4-6	4-6	3200
	Thorney Island	1009·7	+6	NNW	4	c	53	55	7	1	3	1	4-6	7-8	4000
	Lympne ...	1006·4	0	NW	6	c	48	65	8	1	4	–	4-6	7-8	2500
	Manston ...	1005·1	+2	NNW	7	c	49	75	7	1	6	–	9	9	1800
2	Shoeburyness ...	1006·9	+6	NWN	5	bc	49	65	8	2	4	–	2-3	4-6	3500
	Felixstowe ...	1004·1	+4	NW	6	pr	48	75	8	7	9	–	9	9+	1800
	Gorleston ...	1000·4	+10	NNW	7	pr	47	85	6	8	–	–	9	9+	1000
	Mildenhall ...	1007·0	+10	NWN	6	c/pr	48	85	8	5	7	–	4-6	7-8	1500
	Cranwell ...	1009·6	+18	NNW	7	c/pr	47	75	8	8	3	–	7-8	7-8	2000
3	Birmingham	1012·8	+10	NW	4	c	48	65	8	5	–	–	9	9	2500
	Upper Heyford	1010·2	+10	N'W	6	z0	49	55	6	7	3	–	4-6	4-6	2800
	Ross-on-Wye ...	1012·5	+4	N'W	5	bcq	52	55	8	7	6	1	4-6	4-6	3500
5	Hartland Point	1015·3	+6	N	7	c/pr	51	65	8	8	4	–	4-6	7-8	2000
	Bristol ...	1013·1	+2	N	5	c	53	55	8	8	–	–	7-8	7-8	2500
	Portland Bill ...	1012·1	+8	N	5	c	53	75	8	2	4	–	4-6	7-8	4000
	Plymouth ...	1014·2	+2	NWN	5	c/pr	51	75	8	5	–	–	9+	9+	2500
	The Lizard ...	1016·7	+8	NNW	7	c/pr	52	65	8	8	6	–	7-8	7-8	1500
	Scilly (St. Mary's)	1019·1	+2	N	7	c	53	65	8	8	6	–	9	9+	1200
	Guernsey ...														
6	Pembroke ...	1016·6	+2	N'W	7	pr	52	75	7	8	–	1	7-8	7-8	2500
7	Holyhead (Valley)	1016·1	+4	N	7	c	52	65	8	2	–	1	7-8	7-8	3000
	Chester (Sealand)	1013·9	+6	NNW	6	bcq	52	65	8	5	–	2	2-3	4-6	3000
8	Manchester ...	1013·4	+18	NW	5	c	49	55	7	4	–	–	7-8	7-8	3500
10	Spurn Head ...	1007·3	+22	N	8	bc	49	65	7	8	–	–	4-6	4-6	2500
	Catterick ...	1012·5	+21	N	4	PR	46	85	7	8	–	–	9	9	1500
	Tynemouth ...	1011·2	+14	N	8	pr	46	85	6	8	–	–	7-8	7-8	1500
11	St. Abbs Head	1011·4	+14	N	8	c/pr	47	75	8	8	4	–	4-6	7-8	2000
	Leuchars ...	1014·5	+14	NNW	4	bc	48	65	9	2	–	9	4-6	4-6	2500
12	Renfrew (Abbots L.)	1016·6	+8	NNW	4	c	52	55	9	2	4	1	4-6	7-8	2500
	Eskdalemuir ...	1014·1	+14	N'W	4	c	46	55	8	7	7	–	7-8	7-8	4000
	Point of Ayre ...	1016·4	+10	N	6	bc	53	65	8	2	–	6	Tr	2-3	2500
13A	Tiree ...	1021·0	+12	N	7	bc	49	55	8	8	–	–	4-6	4-6	2500
13B	Stornoway ...	1023·3	+26	NNW	6	c/pr	44	85	8	8	9	8	4-6	9	1500
15	Dalwhinnie ...	1018·6	+8	N	3	c	39	85	7	5	–	–	9	9	2500
	Aberdeen ...	1013·0	+8	NNW	5	c/pr	46	85	8	9	3	–	7-8	7-8	1800
	Wick ...	1016·1	+16	N	5	c/pr	43	85	8	2	–	–	7-8	7-8	2000
16	Sumburgh ...	1014·4	+20	N	5	pr	40	85	8	9	–	–	9	9	1200
17	Blacksod Point...	1027·3	+2	N	6	cq	51	75	8	5	–	–	9+	9+	1500
18	Malin Head ...	1022·8	+12	N	8	c/pr	49	92	8	4	7	–	4-6	7-8	2500
	Aldergrove ...	1020·7	+10	NNW	4	cjp	50	75	7	8	–	9	4-6	7-8	1800
19	Birr Castle ...	1023·4	+2	N	4	bc	51	65	8	2	–	4	4-6	4-6	2500
20	Valentia Obsy. †	1026·5	+10	NNE	5	c	53	65	8	8	–	–	7-8	7-8	2500
	Roches Point ...	1021·5	-10	N	7	bc	53	55	8	5	–	–	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 28th October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°Temp. (20)	%Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 28th (37)	Weather 13h.–18h. 28th (38)	Weather 18h. 28th to 1h. 29th (39)	Weather 1h.–7h. 29th (40)
London (Kew)...	1012·0	+18	NNW	4	z0	48	65	6	5	4	–	2-3	4-6	2500	1	*	PRqz0c	cybcz0	bcc	cbc by
Croydon ...	1011·4	+24	N	6	z0	47	75	5	5	–	–	10	10	4000	1	*	uprcz0	cz0	cz0b	c,b
S. Farnborough	1012·6	+20	N'W	4	c	48	65	7	5	–	–	9+	9+	5000	0	*	cir0bbcy	cbcqyc	bcc	cby
Boscombe Down	1014·2	+18	NWN	4	c	46	65	7	5	–	–	7-8	7-8	4000	0	*	cRRbcb	cybcy	cbc	cb
Thorney Island	1012·8	+22	NNW	3	z0	49	65	6	4	–	–	7-8	7-8	4000	0	*	pr0bcy	cybcm0	bcbm0	bcm0b
Lympne ...	1009·9	+22	NW	5	c	45	75	7	8	6	–	4-6	7-8	2500	1	§4	cqPrbc	bc	bcp0bcc	cbcb
Manston ...	1008·3	+20	NNW	6	bc	46	75	7	8	–	–	4-6	4-6	5000	1	*	pr	cporc	cpr0bc	c
Shoeburyness ...	1009·8	+16		4	c	45	75	7	5	–	–	7-8	7-8	3500	1	*	cprtlbc	bcc	cbcm0	bcm0sbc
Felixstowe ...	1007·1	+20	NNW	5	z0	45	75	6	5	–	–	7-8	7-8	5000	1	3	bcc pr0	cprbc	prm0	cpr0pso
Gorleston ...	1006·6	+16	NNW	6	c/pr	46	75	6	8	–	–	7-8	7-8	1000	1	5	cpr0	cPtRq	cprbc	cphrq
Mildenhall ...	1009·9	+18	NW	4	bc/pr	43	97	7	8	–	–	4-6	4-6	2500	0	*	bcqcpr0	cbcpr0	bcpr0b	bbc
Cranwell ...	1012·3	+18	NNW	6	c	43	85	7	5	–	–	4-6	9	4000	1	*	cpr0	cprbc	cpr0bc	bbc
Birmingham	1013·9	+14	NNW	4	c	48	65	6	5	–	–	9+	9+	1500	1	*	bcc	cbcc		bcm0bc
Upper Heyford	1012·7	+14	NNW	6	pr	47	65	6	9	–	–	9+	9+	1200	1	*	bbcy	bc pr0	prcm0	bm0bc
Ross-on-Wye ...	1015·1	+8	NW	3	b	45	75	7	8	–	–	1	1	3000	1	*	bcbc	bcqcb	bcb,c	bcp0
Hartland Point	1016·6	+8	N	6	c/pr	50	75	8	8	6	–	4-6	9	1500	1	5	cp	cp	cpr	cpr
Bristol ...	1015·5	+16	N	5	z0	47	65	6	4	3	–	Tr	Tr	3000	0	*	cbcc	cbcyb	b,prcc	bm0bcK
Portland Bill ...	1014·3	+12	N	4	bc	50	75	8	5	–	–	4-6	4-6	4000	0	4	bcc	cbc	c	c
Plymouth ...	1018·4	+14	NNW	4	b	49	75	7	4	–	–	1	1	2500	·	4	cir0c	cproc	b,cpr0	cproc
The Lizard ...	1018·8	+20	NNW	5	c	49	75	8	8	6	–	7-8	7-8	2500	0	4	cqprc	cproc	cbcc	bcproc
Scilly (St. Mary's)	1019·6	+2	N'E	6	c	51	55	8	8	6	–	4-6	9+	1200	0	5	c	cy	c	c
Guernsey ...																				
Pembroke ...	1018·8	+6	N'W	6	cq	51	65	7	8	6	–	4-6	7-8	2500	1	4	cprq	cqrcb	cqrcb	pr
Holyhead (Valley)	1017·7	0	NWN	5	c	50	65	8	8	–	–	7-8	7-8	2500	0	5	bcc	cbcc	cprom0	cpcy
Chester (Sealand)	1015·1	+6	NNW	3	bc	48	65	7	5	–	–	4-6	4-6	3000	1	*	prcbcq	bcqc	bc	bcc
Manchester ...	1014·5	+6	NW	4	z0	46	65	6	5	–	–	2-3	2-3	3000	1	*	bcz0cy	cbcz0y	bbcz0	bz0
Spurn Head ...	1007·6	+10	NNW	7	c	48	65	7	8	–	–	9+	9+	2500	0	5	cq	cq	ca,ir	cpr
Catterick ...	1013·8	+14	NNW	4	bc	44	75	7	5	–	–	2-3	2-3	2500	1	*	cy cpr	cpr bc	cpl	bcblbc
Tynemouth ...	1013·3	+8	NNW	8	c/pr	44	85	6	8	–	–	9	9	1500	1	5	cpm	cp	bcpr0b	cps
St. Abbs Head	1013·0	0	N	8	c/pr	44	75	8	8	2	–	7-8	9+	1500	1	4	cqpr	cqpr	cpr0	qprsr
Leuchars ...	1017·3	+26	NNW	3	c/pr	43	75	8	8	6	–	4-6	7-8	2800	1	*	bc	bc pr0bc	bcpr0sbc	bcpr0sbc
Renfrew (Abbots L.)	1018·5	+10	N'W	4	c	45	65	9	5	4	–	7-8	7-8	2500	0	*	cpr0bc	bc vy	cpr0bc	bccpso
Eskdalemuir ...	1015·5	+6	N'W	6	bc	42	65	8	5	–	–	4-6	4-6	2500	1	*	bbcc	cbcy bc	bbc	cpr0
Point of Ayre ...	1017·7	+14	N'E	6	b	50	65	8	4	–	–	1	1	2500	0	3	bcb	bbcb	bccbc	bcbbc
Tiree ...	1022·6	+4	N	6	c	46	65	8	8	–	–	7-8	7-8	2500	0	6	bcpr0	bcc	cprbc	cprbc
Stornoway ...	1023·8	0	NNW	5	c	40	75	7	8	7	8	4-6	9+	1000	1	3	cpr	cpr	cpr	[illegible]
Dalwhinnie ...	1020·3	+12	N	4	c	36	75	7	5	–	–	9	9	2500	1	*	oprsc	oprsc		cis
Aberdeen ...	1016·0	+10	NNW	4	c/pr	40	85	7	9	–	–	7-8	7-8	2200	1	4	cprcjp	cprq	cprs	cpsh
Wick ...	1018·2	+10	N	5	bc/phr	37	85	7	3	–	–	4-6	4-6	900	0	*	bcprc	prs0 ph	prsphq	prophsp
Sumburgh ...	1014·3	0	NNW	6	bc/ps	32	85	8	8	6	–	2-3	4-6	1500	4	6	cpr0	pr0psc		s0,o,cph
Blacksod Point...	1027·6	+4	N	6	oq	49	75	7	5	–	–	10	10	1500	0	5	cq	cq	bcq	pr0
Malin Head ...	1023·8	+8	N	8	c/pr	57	75	7	9	–	1	4-6	7-8	2500	0	6	cpr0c	cpr0c	cprprc	cprprc
Aldergrove ...	1021·8	+2	NNW	4	bc	45	75	8	4	–	1	4-6	4-6	2500	1	*	bcc	cpr0jr	pr	bcpr
Birr Castle ...	1024·1	+6	NNW	3	c	47	75	8	5	–	–	7-8	7-8	2500	1	*	c	bcc		bbcc
Valentia Obsy. †	1026·5	+4	N'E	5	c	51	65	8	2	–	–	9	9	2500	1	5	cpr0bcc	cbcc	bccyc	cqcpr
Roches Point ...	1022·5	0	N'W	7	bc	50	65	8	5	–	–	2-3	2-3	2500	0	5	cbcy	bc	bc	bbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
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/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6: similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

§ 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.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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

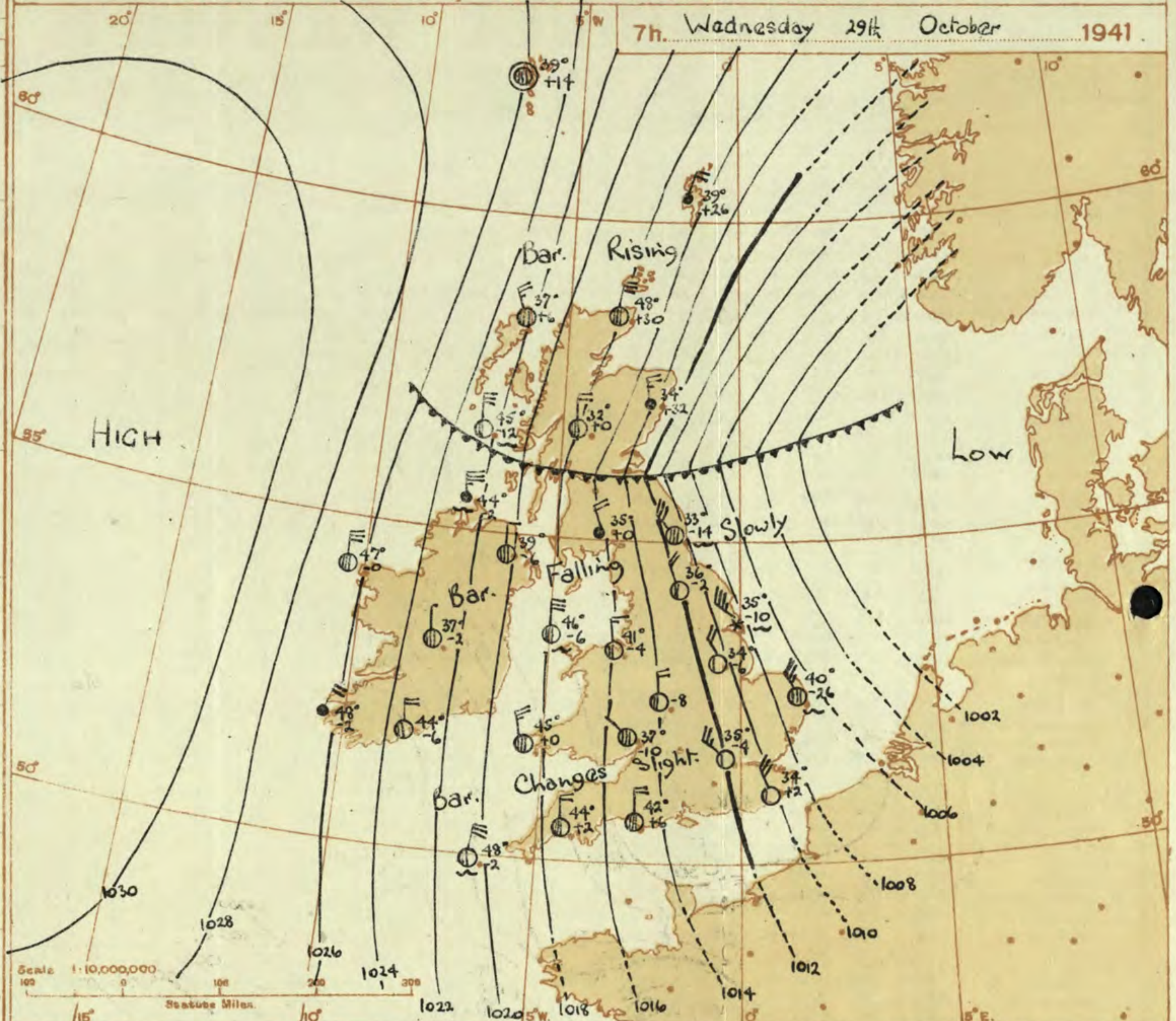
AVIATION WEATHER CODE

	13h. G.M.T. 28th October			18h. G.M.T.			01h. G.M.T. 29th October			07h. G.M.T.		
III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	8-	82745	63786	8-	15747	63787	8-	85638	63888	8-	25745	64785
115	52	81834	65787	52	81884	65687	87	81844	65686	87	88844	65686
203							6-	82837	32787			
206	8-	81864	30386	83	81854	30384	20	26854	63484	80	01844	65684
210	8-	88837	63787	8-	81847	63887	8-	01954	63784	8-	02846	64786
220	80	02856	30686	80	01747	29617						
230	80	01853	31614	84	01754	62514	8-	25744	63684	8-	26844	30784
245	34	10954	64684	94	02756	63686	84	26854	64584	80	26843	34683
260	50	02964	30426	43	01854	63514	40	00862	30312	70	00851	28511
278	20	01853	62613	84	00853	63713	84	00853	61713	54	00853	63603
279	8-	02965	14550	80	02855	29325	50	01864	29514	56	02855	27413
285	23	01854	30515	23	01744	30585				21	83745	32683
288	87	27654	30485	56	25666	30487	00	25690	29580	50	17752	6060-
375	5-	02856	63486	5-	02865	32625	50	01855	30485	53	01854	32314
301	44	05453	63414	53	05654	64514	50	00751	65401	50	00752	64402
321	76	02764	64715				06	00790	61681	07	00790	61602
299	*	*	*				8-	61744	30844	5-	86748	30788
292	86	25844	62685	4-	25756	60486	5-	02755	26315	50	01753	26513
310				--	02638	32418				--	01743	32513
314	7-	05656	63526	6-	81654	63585	00	05690	29520	04	05690	63402
333	2-	02965	30615	8-	01855	63625	8-	81757	31587	8-	02856	32586
334	--	25645	30486	--	03646	04328				--	03767	24428
340	20	01863	63403	43	01762	63413	03	00690	02301	03	01790	30313
136	8-	02757	30787	8-	81856	64686	8-	25845	30685	8-	83847	28887
336	13	02762	32437	54	01763	32316				14	01762	28414
350	7-	02757	63517				26	05653	63583	50	00751	28302
368	80	25964	31484	40	25763	32183	04	00790	28201	70	01753	24385
379	10	01754	32514	5-	05665	32525	5-	05667	30517	53	01764	32404
390	5-	02766	59626	50	00752	62612	46	25662	62583	54	00761	59502
382	73	01754	63515	5-	02757	29427	03	05690	30313	53	00890	28303
428	8-	02737	20227							50	01782	28303
430	53	02864	63586	5-	02765	64525	50	00762	29302	50	00861	30302
409	80	02755	31786	27	25746	30687	57	02654	64587	37	25745	65687

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 29th October 1941.



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

FRONTS or boundaries between masses of air of different 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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 29th October 1941
1 S.E. England ↑ 2 E. England ↑ 3 E. Midlands 4 W. Midlands	Fresh or strong north to northeast wind, gale on coast, moderating later; cloudy on East Coast with squally wintry showers; mainly fair well inland with considerable bright periods; cold.
5 S.W. England 6 South Wales 7 North Wales ↑ 8 N.W. England ↑	Fresh or strong northerly winds, gale locally on coasts, moderating later; fair apart from a few scattered showers; rather cold.
9 N. Midlands 10 N.E. England ↑ 11 S.E. Scotland ↑	As 1-4.
12 S.W. Scotland & Isle of Man. 13A. W. Scotland	As 5-8
13B N.W Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Strong north to northeast winds, moderating later; cloudy with occasional wintry showers; cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh northerly wind, moderating later; fair apart from a few scattered showers; rather cold.

GENERAL INFERENCE.

An anticyclone is centred to the West of Ireland and pressure is low to the East of the British Isles. There will be cold northerly winds in all districts, gale locally at first, moderating. There will be wintry showers in the North and East.

FURTHER OUTLOOK.

Cold showery northerly type persisting.

↑ Gale warning in operation in district 1, 1505 28/10/41. 2, 1730, 27/10/41 7&8, 0215 29/10/41. 10&11, 0930 27/10/41.

Forecasts issued at 10-30h.

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

H.M.S.O. Press, Meteorological Office Dunstable. 0.268/4120. Wt.8176. D.6034. Gp.346. 3300. 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.)

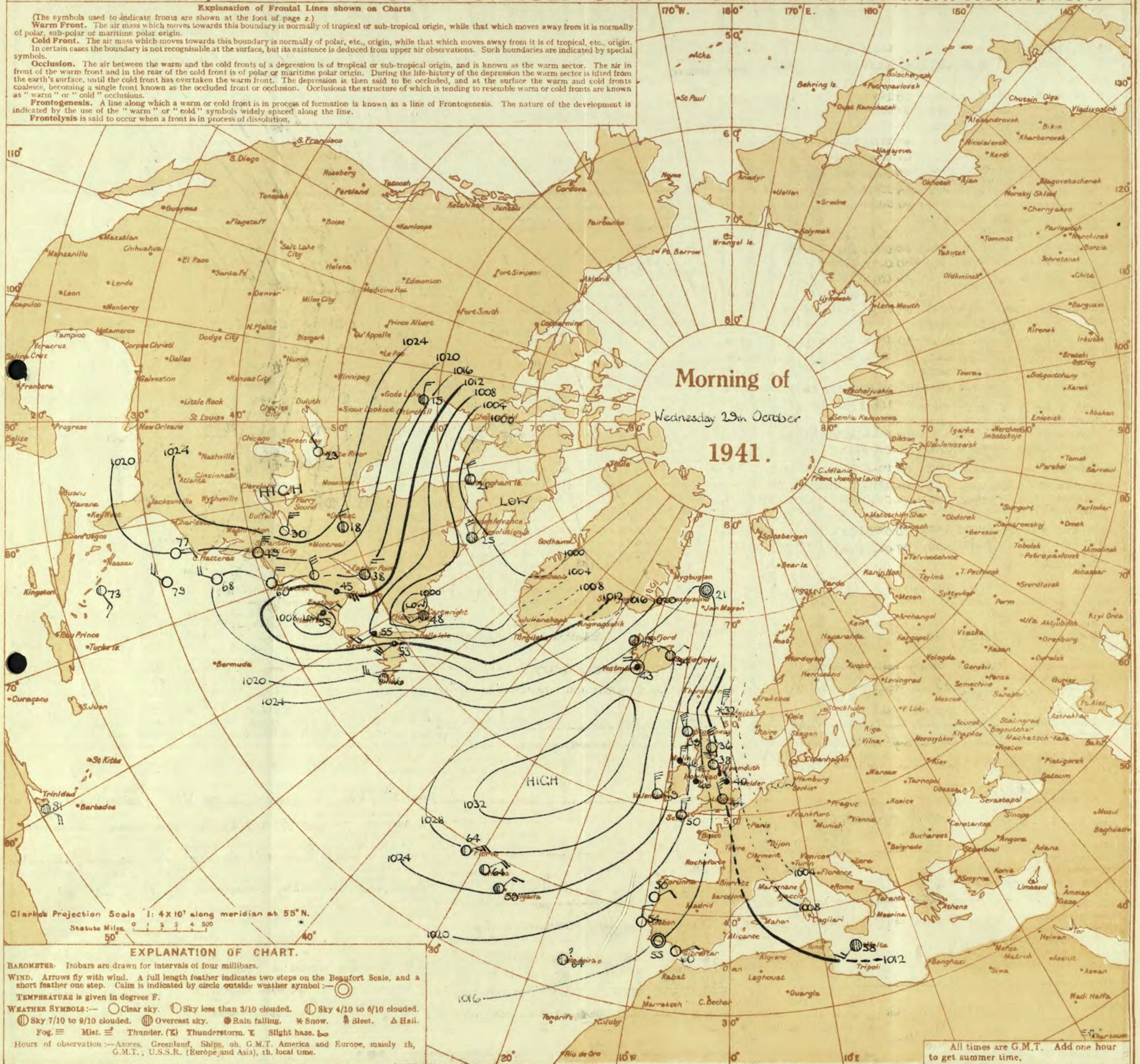
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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. T Slight haze. ∞

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Wednesday 29th October 1941.
No. 29196

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

District.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low. (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1012·2	-2	NNW	7	c/d	44	75	7	5	-	-	9	9	3200
	S. Farnborough	226	1013·5	0	NNW	4	c	42	75	7	5	-	-	9	9	3500
	Boscombe Down	417	1015·2	+2	NNW	4	c	42		7	-	7	-	0	7-8	-
	Thorney Island	10	1013·6	-2	NW	2	zo	41	85	6	-	4	-	0	Tr	-
	Lympne ...	346	1010·9	-2	NNW	6	c	42	85	7	5	-	-	7-8	7-8	2500
	Manston ...	154	1009·7	+2	NNW	6	c	43	85	8	8	-	-	9	9	1600
2	Shoeburyness ...	11	1014·3	+2	NW'N	5	bc	43	85	6	5	*	*	4-6	4-6	1500
	Felixstowe ...	15	1008·5	0	NNW	4	b/pr	42	85	6	5	-	-	1	1	4000
	Gorleston ...	5	1007·3	-2	NNW	6	bc/pr	45	75	7	8	-	-	4-6	4-6	1500
	Mildenhall ...	19	1010·7	-2	NW'W	5	b	39	97	7	-	3	-	0	1	-
	Cranwell ...	240	1012·9	+2	N'W	5	bc	38	75	7	5	4	-	4-6	4-6	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013·9	+2	N	4	zo	41	75	6	5	-	-	10	10	4900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1017·4	-2	N	6	c/pr	49	75	8	2	-	-	9+	9+	1500
	Bristol ...	209	1016·2	-4	NNW	3	c	44	75	7	5	7	-	7-8	9+	3500
	Portland Bill ...	32	1015·1	-2	N	4	c	48	92	8	5	-	-	7-8	7-8	2500
	Plymouth ...	82	1017·4	+2	N	3	pr	47	85	6	8	-	-	9+	9+	2000
	The Lizard ...	240	1019·8	+2	N'W	5	c	47	75	8	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	1020·7	-6	N	5	c	50	55	8	8	6	-	7-8	9	1200
	Guernsey ...	175														
6	Pembroke ...	142	1019·7	+4	N'W	6	cq	48	75	7	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	26	1018·4	+6	N	4	pr	46	75	6	8	-		9+	9+	1200
	Chester (Sealand)	16	1017·1	+12	NNW	4	bc	41	65	7	5	-	-	4-6	4-6	2500
8	Manchester ...	235	1016·2	+6	NW	4	b	40	65	6	-	3	-	0	Tr	-
10	Spurn Head ...	29	1010·1	0	NW'N	8	ir	40	92	7	8	-	-	9+	9+	2500
	Catterick ...	175	1013·8	-14	NNW	3	bc	38	75	7	5	-	-	2-3	2-3	3200
	Tynemouth ...	108	1014·3	-8	N	8	c/pr	38	75	7	2	-	-	7-8	7-8	1500
11	St. Abbs Head	280	1014·3	-8	N	8	c/pr	38	75	7	2	-	-	7-8	7-8	1500
	Leuchars ...	36	1016·5	-10	NNW	2	c	38	75	8	5	-	-	7-8	7-8	2800
12	Renfrew (Abbots I.)	19	1019·0	-6	NW	2	c/pr	37	75	7	5	-	-	4-6	9	2800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1018·5	-4	N'E	6	bc	45	65	8	8	-	-	2-3	2-3	2500
13A	Tiree ...	22	1022·3	-4	N*	6	bc	43	75	8	8	*	*	4-6	4-6	1800
13B	Stornoway ...	80	1022·7	-10	NNW	7	c	39	75	7	8	7	-	4-6	7-8	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	36	*	*	*	*	*	*	*	*
	Wick ...	119	1015·0	-22	N'W	6	phr	36	65	7	3	-	-	9	9	800
16	Sumburgh ...	30	1008·7	-46	NNW	8	c/phr	33	92	8	3	-	-	4-6	4-6	1500
17	Blacksod Point	18	1027·3	0	N	6	cq	48	75	7	9	-	-	7-8	7-8	1500
18	Malin Head ...	84	1023·3	-6	N	6	pr	46	97	6	5	-	-	9	9	1500
	Aldergrove ...	268	1021·9	-2	N'W	3	c	39	85	8	8	-	-	2-3	7-8	2500
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1026·8	-4	N'E	5	c	49	65	8	8	-	-	9+	9+	2500
	Roches Point	22	1024·9	+6	N'W	4	bc	46	85	8	5	-	-	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 29th October — PAST 24 HOURS.

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 28th Hrs. (36)
London (Kew)	1012·3	-4	NW'N	3	b	37	55	7	-	-	1	0	Tr	-	1	*	51	37	30	1	-	3·0
Croydon	1012·1	-4	NW	5	b	35	75	7	-	4	1	0	Tr	-	1	*	51	35	30	2	Tr	2·1
S. Farnborough	1012·5	-10	NW	3	b	36	65	7	5	-	-	Tr	1	3000	0	*	52	35	31	Tr	-	4·3
Boscombe Down	1015·3	+2	NW'N	3	bc	35	65	9	5	7	1	4-6	4-6	5000	0	*	51	33	28	0·5	-	5·1
Thorney Island	1013·6	0	NW'N	3	bc	37	65	8	5	4	-	1	2-3	4000	0	*	53	36	28	1	-	*
Lympne	1011·1	+2	NNW	6	b	34	75	8	8	-	-	1	1	3200	1	§	50	34	30	1	Tr	5·3
Manston	1009·0	-6	NNW	7	c	37	75	8	8	6	-	7-8	7-8	1800	1	*	51	37	33	0·2	Tr	4·4
Shoeburyness	1010·5	-8	NW'N	5	bc	36	75	7	5	4	-	2-3	4-6	2500	1	*	51	35	30	0·1	-	3·1
Felixstowe	1007·9	-6	NW'N	6	c/ps	35	92	7	9	1	-	4-6	7-8	1500	1	4	49	35	32	0·6	2	2·0
Gorleston	1004·2	-26	NNW	7	c/phr	40	75	6	8	-	-	7-8	7-8	800	1	6	52	36	34	3	4	*
Mildenhall	1010·2	-14	NW	5	c	35	85	8	5	7	-	4-6	7-8	2500	1	*	50	34	30	Tr	0·1	2·0
Cranwell	1011·8	-6	NNW	4	b	34	75	8	-	3	-	0	1	-	0	*	49	33	30	Tr	0·2	2·5
Birmingham	1010·5	-8	NW'N	5	bc	36	75	7	5	4	-	2-3	4-6	2500	1	*	50	35	30	-	-	3·1
Upper Heyford	1013·4	-10	NNW	4	bc	35	65	7	-	4	6	0	2-3	-	1	*	50	34	32	Tr	-	*
Ross-on-Wye	1015·7	-10	NW'N	2	c/pr	37	85	8	5	-	1	9	9+	3000	1	*	52	37	34	-	0·1	4·2
Hartland Point	1017·5	+2	N	6	pr	46	65	8	2	6	5	7-8	9+	1500	1	5	53	42	42	3	0·3	3·1
Bristol	1016·1	-6	WNW	3	c	37	75	7	5	4	-	7-8	9+	3000	0	*	53	37	30	Tr	Tr	[illegible]
Portland Bill	1015·4	+6	N	4	c	42	75	8	5	-	-	10	10	2500	0	4	54	38	*	-	-	[illegible]
Plymouth	1017·2	+2	N	4	c	44	75	7	5	-	-	7-8	7-8	2000	1	3	60	44	37	Tr	1	3·9
The Lizard	1018·9	+2	NNW	4	c/pr	45	85	8	8	-	-	7-8	7-8	1500	1	4	54	43	*	0·5	Tr	2·1
Scilly (St. Mary's)	1020·3	-2	N'E	6	bc	48	55	8	8	6	-	4-6	4-6	1200	0	5	55	47	*	-	-	1·6
Guernsey																						
Pembroke	1018·7	0	NNW	5	cq	45	65	7	8	-	-	7-8	7-8	2000	1	4	53	41	*	0·5	1	1·2
Holyhead (Valley)	1016·8	-6	N	6	c	46	55	8	8	-	9	7-8	9	1800	1	5	54	51	39	Tr	0·3	*
Chester (Sealand)	1015·6	-4	N	3	bc	41	75	7	5	-	-	4-6	4-6	2000	1	*	53	40	30	0·1	-	6·2
Manchester	1014·9	-6	NNW	3	zo	35	65	6	-	4	-	0	Tr	-	1	*	50	33	29	-	-	*
Spurn Head	1008·1	-10	NW	7	PRS	35	92	5	5	-	-	9+	9+	2500	1	5	50	35	*	1	6	3·6
Catterick	1012·9	-2	NNW	4	bc	36	65	8	5	3	-	4-6	4-6	1800	1	*	49	35	29	1	Tr	2·3
Tynemouth	1010·7	-4	NW	6	c/ps	33	92	6	2	-	-	7-8	7-8	1200	4	5	48	33	29	10	2	*
St. Abbs Head	1008·6	-36	NW	8	roro	39	85	7	8	2	-	7-8	9	2000	1	5	47	33	*	1	0·5	*
Leuchars	1015·5	+14	N	4	bc	36	75	8	8	-	-	4-6	4-6	2200	1	*	50	34	20	Tr	0·3	5·2
Renfrew (Abbots I.)	1018·6	+10	NNE	4	ps	39	55	8	8	-	-	9+	9+	2000	0	*	53	30	23	Tr	Tr	6·8
Eskdalemuir	1014·9	0	NNW	4	phr	35	65	8	9	-	-	9+	9+	800	3		49	32	28	-	-	5·6
Point of Ayre	1016·9	-4	N'E	6	bc	44	65	8	2	4	-	1	2-3	2500	0	5	53	44	*	-	-	6·3
Tiree	1022·6	+12	N	6	bc	45	65	8	8	-	-	4-6	4-6	1800	0	7	50	41	**	Tr	0·3	1·5
Stornoway	1023·1	+6	NNW	5	c/pr	37	92	7	8	7	-	4-6	7-8	2000	1	3	45	36	*	1	0·6	1·3
Dalwhinnie	1019·9	0	N	4	bc	32	85	7	5	-	-	4-6	4-6	2500	4	*	41	30	26	4	0·2	0·3
Aberdeen	1014·2	+32	N'W	5	phr	34	85	7	9	-	-	7-8	7-8	1500	4		47	32	31	5	3	8·[illegible]
Wick	1018·2	+30	N'E	6	c/p	38	85	7	3	-	-	7-8	7-8	900	1	*	47	33	32	1	1	*
Sumburgh	1016·0	+26	NNE	4	phr	39	65	8	8	-	-	7-8	7-8	1200	4	*	45	30	27	1	3	*
Blacksod Point	1026·3	0	N	6	c/pr	47	75	7	9	-	-	9+	9+	1500	0	4	53	44	*	-	Tr	*
Malin Head	1022·4	-2	N	7	pr	44	97	8	9	-	-	7-8	7-8	2500	0	6	51	42	*	0·6	2	1·2
Aldergrove	1021·2	-6	N	2	c/pr	37	85	7	9	-	3	4-6	7-8	1500	1	*	52	37	34	0·1	0·3	2·3
Birr Castle	1024·1	-2	N	1	c	37	92	8	5	-	-	7-8	7-8	2500	1	*	53	35	32	-	-	2·6
Valentia Obsy.	1026·1	-2	NNE	4	pr	48	75	8	8	-	-	9	9	2500	1	4	54	47	44	Tr	0·1	1·0
Roches Point	1023·7	-6	N	4	bc	44	85	8	5	-	-	2-3	2-3	2500	0	4	58	54	43	-	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet.	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	PRqzoc	cybczo	bccby	51	37	30	1	-	3·0	*	*	7
Croydon	217	uprczo	czo	czobGb	51	35	30	2	Tr	2·1	*	*	6
Greenwich (Royal Observatory)	149	cy	cy	bcby	50	36	28	-	-	1·5	57	51	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	53	35	33	-			67	60	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	bc	bc	*	51	36	31	-	-	*	*	52	*
Kensington	80	cbc	bcc	*	52	36	31	-	-		68	56	*
Hampstead Observatory	450	bc	bc	bc	49	33	27	-	-		*	57	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 28th

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
0·1	7-21h 28th	<0·1	0-5h 29th

FOREIGN OBSERVATIONS.

Evening of 28th October — Morning of 29th October

Stations.	Evening Barom. mb.	Evening Wind Direc.	Evening Wind Force.	Evening Weather.	Evening Temp. °F.	Morning Barom. mb.	Morning Wind Direc.	Morning Wind Force.	Morning Weather.	Morning Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Reykjavik (18h and 07h)	1030·4	SE	1	c	43	1023·9	SSW	2	o	46	*	*	*	*
Lisbon (18h and 07h)						1016·6	NNE	2	zo	52		50		-
¶Madrid (18h and 07h)	916·9	NE	1	b	68									
Cairo (Heliopolis) (18h and 06h)						1013·3	-	0	bc	69		58		-
Toronto (13h and 01h)														
Washington (13h and 01h)	1011·9	WNW	3	c	62									

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1½ miles.
5 Poor visibility	2½ „
6 Moderate „	6¼ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Thursday 30th October 1941.

No 29,197

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

District.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. 0–12 Force. (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1009.2	-24	NNW	6	c/p	40	55	6	8	-	-	9	9	1500
	Croydon	1009.2	-26	NNW	6	pr	41	45	6	9	7	-	7-8	9+	2800
	S. Farnborough	1010.5	-22	NW	5	c	43	45	7	1	-	-	9+	9+	2900
	Boscombe Down	1013.3	-14	N	7	bc	44	55	7	7	-	-	4-6	4-6	3000
	Thorney Island	1011.0	-26	NNW	5	c	46	45	7	2	8	-	7-8	7-8	4000
	Lympne	1008.4	-18	NW	6	c	41	46	7	4	-	-	7-8	7-8	2500
	Manston	1009.5	-20	NW	6	c	41	55	8	2	3	-	9+	9+	1500
2	Shoeburyness	1008.3	-8	NW	6	rs	40	75	7	5	7	-	4-6	10	2100
	Felixstowe	1006.3	-14	NNW	6	prs	39	75	7	9	-	-	9+	9+	1200
	Gorleston	1005.8	+10	NNW	3	bc/ps	37	85	7	8	-	-	7-8	9+	1100
	Mildenhall	1007.8	-10	NW	4	bc/ps	38	97	8	8	6	3	4-6	4-6	2500
	Cranwell	1011.0	+6	NNW	6	c	40	75	8	8	-	3	9+	9+	1200
3	Birmingham	1013.9	+6	N	5	bc	39	55	8	7	-	-	4-6	4-6	2500
	Upper Heyford	1011.8	-10	NNW	7	bc	46	55	7	2	-	-	4-6	4-6	1400
4	Ross-on-Wye	1014.7	-6	N	6	bcq	43	45	8	1	-	-	2-3	2-3	4000
5	Hartland Point	1017.0	-10	N	6	c/pr	46	65	8	3	6	-	4-6	9	1500
	Bristol	1015.2	-10	N	6	cq	44	55	8	2	-	-	7-8	7-8	2500
	Portland Bill	1018.2	-42	NNW	4	c	53	92	8	5	-	-	10	10	2500
	Plymouth	1016.3	-12	NW	4	c/pr	46	65	8	5	-	-	7-8	7-8	1500
	The Lizard	1018.8	-6	NW	6	bc/pr	50	65	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1020.7	-4	NW	6	c	49	55	8	8	6	-	7-8	9+	1500
	Guernsey														
6	Pembroke	1018.2	-4	N	7	cq	47	58	8	8	6	-	7-8	9+	2500
7	Holyhead (Valley)	1019.2	+14	NNW	7	c	45	45	8	2	-	-	7-8	7-8	3000
	Chester (Sealand)	1016.9	+14	NW	5	bcq	44	55	8	1	-	-	2-3	2-3	2000
8	Manchester	1015.4	+10	NNW	6	bc	42	58	7	2	6	-	4-6	4-6	3000
10	Spurn Head	1008.2	+40	NE	7	ph	41	75	7	8	6	-	7-8	9	2500
	Catterick	1014.3	+16	N	5	prs	37	85	7	8	-	-	9+	9+	1100
	Tynemouth	1013.2	+20	N	5	c	45	55	7	2	-	-	7-8	7-8	1200
11	St. Abbs Head	1025.5	+20	NW	8	prs	37	82	7	5	6	-	4-6	7-8	2000
	Leuchars	1018.6	+8	NNW	4	bc/ps	43	75	8	3	-	-	4-6	4-6	1800
12	Renfrew (Abbotts L.)	1021.2	+6	NE	5	c	45	45	9	8	-	-	9	9	2500
	Eskdalemuir	1017.6	+12	NW	5	psh	41	55	8	5	-	-	7-8	7-8	1500
	Point of Ayre	1020.0	+8	NNE	7	b	45	58	8	1	-	-	1	1	2500
13A	Tiree	1024.6	+4	NNE	5	bc	46	55	8	1	-	-	2-3	2-3	3500
13B	Stornoway	1026.3	+6	N	4	bc	45	65	8	5	4	3	2-3	2-3	3500
15	Dalwhinnie	1022.4	+12	N	5	bc	38	65	7	5	-	-	4-6	4-6	2500
	Aberdeen	1018.5	+20	NE	5	bc	44	58	8	8	-	-	2-3	2-3	1800
	Wick	1022.1	+18	NNE	5	bc	44	55	8	3	-	-	2-3	2-3	2500
16	Sumburgh	1021.1	+14	N	4	bc	42	56	8	8	4	-	2-3	2-3	1500
17	Blacksod Point	1027.0	+2	N	5	c/pr	49	85	8		-	-	7-8	7-8	1500
18	Malin Head	1025.0	+12	N	6	c	46	85	8	7	8	-	4-6	7-8	4000
	Aldergrove	1023.4	+10	N	4	b	45	55	9	1	-	1	Tr	Tr	2000
19	Birr Castle	1024.7	-2	NNE	2	c	47	65	8	5	-	5	4-6	7-8	4000
20	Valentia Obsy. †	1026.9	+2	NNE	5	pr	50	75	8	9	-	3	9+	9+	2500
	Roches Point	1023.7	-6	N	6	bc	49	75	9	2	4	-	4-6	4-6	2500

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

District.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. 0–12 Force. (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	1012.7	+18	SW	4	bc/p	36	85	6	5	-	-	4-6	4-6	1500	1	*
	1012.8	+18	NNW	4	pr	36	85	5	9	-	-	7-8	7-8	3000	1	*
	1013.8	+20	NNW	5	bc	40	65	8	5	-	-	4-6	4-6	2500	0	*
	1015.9	+22	NW	5	b	38	65	7	4	-	-	1	1	3000	0	*
	1014.0	+22	NW	5	b	40	65	8	4	-	-	Tr	Tr	4000	0	*
	1009.9	+14	NNW	7	bc	34	92	8	1	-	-	2-3	2-3	500	1	*
	1008.6	+10	NNW	6	bc	38	85	8	5	-	-	4-6	4-6	2500	1	*
2	1010.5	+12	WNW	3	bc/ps	36	85	7	4	4	-	2-3	4-6	2500	1	*
	1007.8	+8	NW	4	prs	38	85	7	9	-	3	9+	9+	1200	1	3
	1007.0	+4	NW	6	c/pr	41	65	7	9	-	-	9+	9+	1500	1	5
	1010.7	+14	NW	4	c/pr	38	92	7	8	6	-	7-8	7-8	1500	1	*
	1013.5	+14	NNW	5	c	36	92	7	6	-	-	9	9	600	1	*
3	1015.6	+8	NW	4	b	38	75	6	5	-	-	1	1	2500	1	*
	1014.8	+14	NNW	5	b	36	85	7	5	-	-	1	1	1500	1	*
4	1017.5	+12	NW	2	b	38	65	8	5	-	-	Tr	Tr	3500	0	*
5	1019.1	+16	NW	6	bc	44	55	8	1	-	-	4-6	4-6	3000	0	*
	1017.7	+14	NW	5	bq	40	55	6	6	-	-	Tr	Tr	4000	0	
	1016.2	+18	NW	4	bc	43	75	8	5	-	-	2-3	2-3	2500	0	
	1019.1	+24	NW	4	bc	43	55	6	6	-	-	Tr	Tr	2500	0	3
	1020.0	+8	NW	5	bc	43	75	8	8	-	-	4-6	4-6	2000	1	4
	1021.2	+12	NW	7	cjp	47	65	8	8	-	-	7-8	7-8	1500	0	5
6	1022.4	+12	NNE	5	cq	44	65	8	8	-	-	7-8	7-8	2500	1	
7	1020.0	0	NW	6	c	45	55	8	8	-	-	7-8	7-8	2500	0	5
	1019.1	+12	NW	4	bc	41	65	7	4	-	-	2-3	2-3	2000	0	*
8	1017.9	+16	NNW	4	bc	38	75	6	5	6	-	Tr	Tr	4000	1	*
10	1010.4	+8	NE	7	bcq	43	55	7	9	-	-	4-6	4-6	2500	1	
	1017.0	+14	NE	5	bc/ph	39	75	6	9	-	-	4-6	4-6	1000	1	*
	1015.7	+20	NW	9	c/pr	44	45	7	2	-	-	7-8	7-8	1200	1	5
11	1018.0	+22	NW	8	cq	45	45	7	8	4	-	4-6	7-8	1500	1	5
	1022.2	+18	NNW	1	bc	40	75	8	4	4	-	2-3	2-3	2200	0	*
12	1023.9	+18	NW	3	bc	39	65	9	1	3	1	Tr	4-6	2500	0	*
	1020.6	+16	NW	4	b	37	65	8	5	-	-	1	1	2500	1	*
	1022.0	+12	NE	6	b	46	65	8	1	-	-	1	1	2500	0	5
13A	1026.4	+12	NE	4	bc	44	65	8	2	4	-	2-3	4-6	3500	0	5
13B	1026.7	+4	NW	2	c	41	92	8	5	7	-	7-8	10	3500	1	2
15	1023.3	+20	NNE	3	bc	35	75	7	5	-	-	4-6	4-6	2500	0	*
	1021.8	+14	NNE	4	bc	40	75	6	8	4	-	2-3	2-3	2100	1	3
	1023.6	+6	NNW	2	bc	41	75	8	2	4	5	1	2-3	1600	1	
16	1022.3	+4	N	3	bc	38	65	8	8	4	8	2-3	2-3	2000	4	4
17	1028.0	+10	NW	2	bc	45	75	8	2	-	-	2-3	2-3	2500	1	3
18	1026.4	+6	NW	5	bc	46	55	8	9	-	2	2-3	4-6	5700	0	5
	1025.5	+6	NW	2	bc	39	75	9	1	3	6	Tr	4-6	3500	1	*
19	1026.0	+6				40	75								0	*
20	1027.3	+8	NE	4	pr	47	85	8	9	-	-	9+	9+	2500	1	4
	1025.6	+18	N	4	b	45	75	8	5	-	-	1	1	2500	0	4

PAST 24 HOURS.

District.	Weather. 7h.—13h. (37)	Weather. 13h.—18h. (38)	Weather. 18h. 29th to 1h. 30th (39)	Weather. 1h.—7h. 30th. (40)
1				
2				
3				
4				
5				
6				
7				
8				
10				
11				
12				
13A				
13B				
15				
16				
17				
18				
19				
20				

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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.*

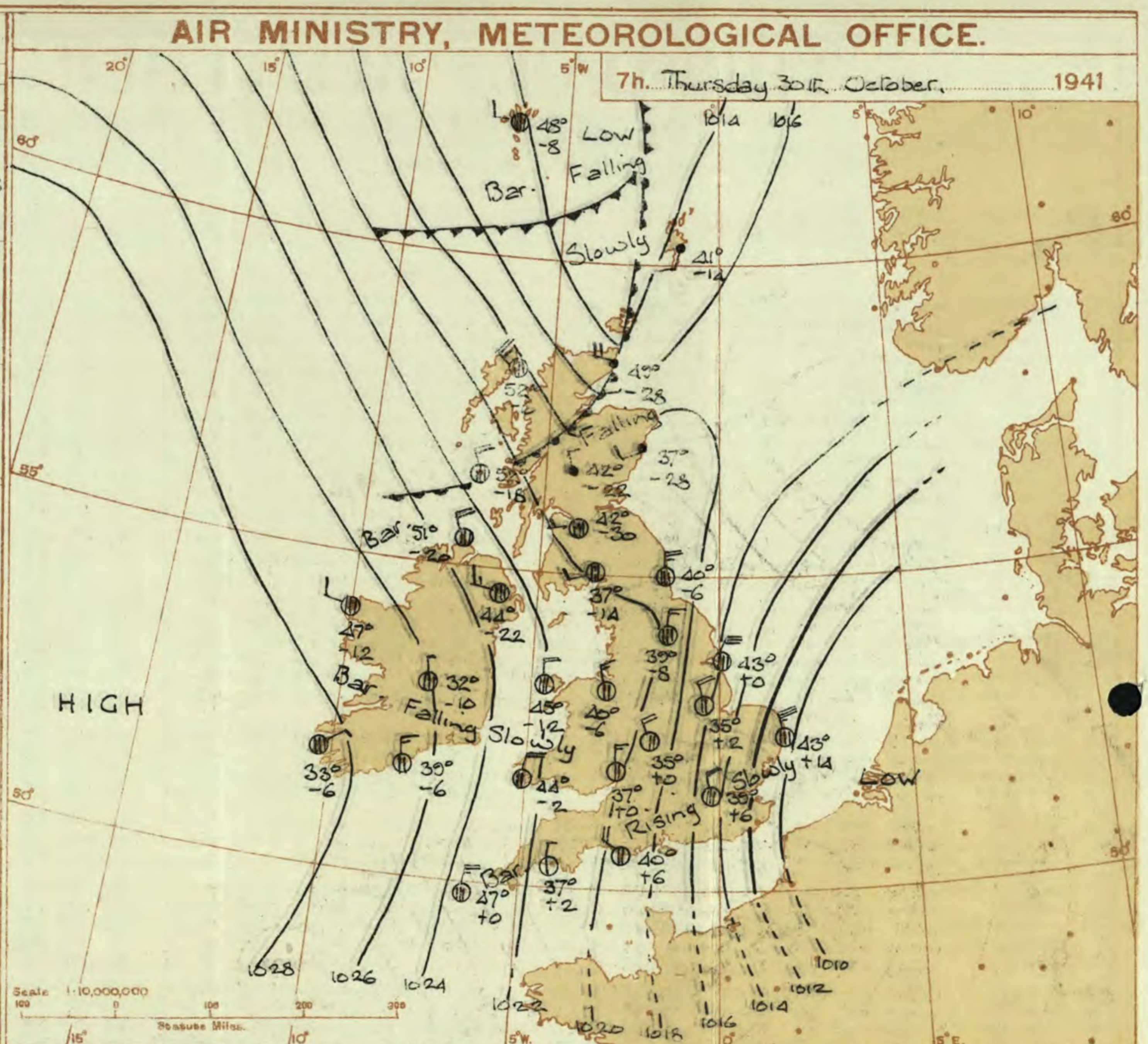
Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 29th October			18h. G.M.T.			01h. G.M.T. 30th October			07h. G.M.T.		
III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	30	01944	34684	3-	02844	32484	52	61743	23668	6-	62638	29168
115	87	02944	32586	57	02944	28426	52	62835	28468	52	62835	28568
203	5-	02838	32728				5-	62838	24328	5-	61838	28468
206	8-	02854	65484	84	01853	32224	27	81854	28288	52	63843	24268
210	8-	02954	84514	26	00853	64413	53	02952	25388	52	64647	22368
220	20	01954	32464	83	01854	32105				52	02854	27428
230	5-	01965	32315				57	02763	31218	57	02744	22257
245	30	00952	34--4	34	25852	32583	87	25865	28388	62	64644	23368
260	86	02955	32486	50	01853	30413	57	02865	30317	5-	62648	18168
278	10	00952	65683	14	01952	65514	14	02951	32318	52	61846	28368
279	80	00963	656-5	54	01863	65413	00	02890	65405	52	62755	28328
285	3-	83538	32483	23	01744	32584						
288	8-	27656	34685	80	25646	02846	20	25754	35684	02	61668	30388
575				50	00851	32201	53	02863	32215	57	02865	28427
301	10	00752	35682	10	05652	65682	50	00752	34582	50	05551	32317
321	82	81748	62587	6-	25645	60485	86	05654	30485	55	02764	29485
299	8-	83744	30884	5-	81744	32784	50	01743	01713	80	01744	32714
292	96	27843	63583				50	01754	60484	52	61744	28488
310	--	01643	32613	--	83438	32518				--	01635	32515
614	02	74228	30578				9-	05664	63484	05	05690	30315
333	2-	01964	02684	4-	01864	02714	7-	01853	32513	54	01961	32415
334	--	02743	02514	--	02645	02416				--	02656	30217
340	10	01863	64403	40	00861	64411	04	00790	31401	03	01790	02314
136	3-	27856	30576	8-	81856	31786	8-	88868	32788	4-	02865	32686
336	52	01763	32514	13	01763	32415				54	01761	32312
350				40	05657	61601	50	28803	15536	57	05673	28514
368	84	01954	64484	20	00951	38501	50	00761	27301	50	01762	27314
379	20	01754	63614	00	00790	68610	03	05690	63602	00	01790	30513
390	5-	85647	68547	80	25643	30573	53	02765	62515	5	02767	28527
382	7-	02866	63616	50	00761	31411	00	00790	30500	05	01790	30404
488	40	01774	28414							50	02666	64706
430				44	01854	65514	00	00790	30600			
409	8-	65747	64767	10	01854	65684	80	02846	32586	80	02855	01485

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 30th October 1941



FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 30th October 1941.

DISTRICTS.	
1 S.E. England 2 E. England ... 3 E. Midlands ... ~~4 W. Midlands ...~~	Moderate or fresh N.W - N. wind, veering N. or N-E later; rain spreading southwards followed later by local wintry showers and bright intervals becoming temporarily milder, but rather cold again later
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Moderate or fresh N. or N.N.W. wind; rain spreading southwards but becoming intermittent later; becoming milder.
10 N.E. England 11 S.E. Scotland	Moderate or fresh northwesterly wind, veering N-E. later; dull and rainy at first; bright intervals and wintry showers later; average temperature, becoming colder later.
12 S.W. Scotland & Isle of Man. 13A. W. Scotland 13B. N.W Scotland	Moderate or fresh northwesterly wind; cloudy, with occasional rain; average temperature.
14 Mid Scotland 15 N. E. Scotland	As 10 - 11
16 Orkneys and Shetlands 17 N. W. Ireland	Light or moderate northerly winds; fair; average temperature.
18 N. E. Ireland 19 S. E. Ireland	As 4-9.
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.

An anticyclone is centred west of Ireland; a small depression off N.E. Scotland will move southwards. Rain and milder conditions will spread south over the whole of Great Britain, but in our eastern districts it will become colder again later, with local wintry showers.

FURTHER OUTLOOK.

Fair in extreme west; unsettled elsewhere.

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. C.269/420.M.8/76 C.6054. Gp.348 3800/9/41

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 dissipation.

Morning of

Thursday 30th October

1941.

Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— ○ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ● Rain falling. ✱ Snow. ⁂ Sleet. △ Hail. Fog. ≡ Mist. ≡ Thunder. (Ł) Thunderstorm. Ł Slight haze. ∞

Hours of observation :—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 30th October 1941.

No. 29,197

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1013·2	-4	NW	5	bc	38	75	6	5	4	-	1	2-3	2500
	S. Farnborough	226	1015·1	+2	NW	4	b	36	85	8	-	-	-	0	0	-
	Boscombe Down	417	1017·3	+2	NNW	5	bc	35	75	7	-	-	-	0	0	-
	Thorney Island	10	1017·6	-2	NNW	4	bc	37	75	6	-	-	-	0	0	-
	Lympne ...	346	1009·2	-10	NNW	6	bc	38	75	8	-	4	-	0	1	-
	Manston ...	154	1008·2	-2	NW	8	c	43	75	8	5	3	-	2-3	3	2000
2	Shoeburyness ...	11	1010·8	+2	NW	4	c*	38	86	6	5	*	*	7-8	7-8	2500
	Felixstowe ...	15	1008·3	+6	NW	6	bc	42	75	7	-	7	-	0	4-6	-
	Gorleston ...	5	1008·3	+12	NW	8	bc	45	65	6	8	-	-	10	10	1500
	Mildenhall ...	19	1012·5	+6	NW	5	bc	42	85	8	8	-	-	9+	9+	2900
	Cranwell ...	240	1016·4	+10	NNW	4	b	35	85	7	5	-	-	1	1	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1017·1	+14	NW	5	N	34	75	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1021·2	+4	NW	5	bc	45	55	8	1	-	-	2-3	2-3	4000
	Bristol ...	209	1019·8	+4	NW	5	b	38	65	7	4	-	-	Tr	Tr	4000
	Portland Bill ...	32	1017·4	+6	NW	7	b	41	85	8	-	-	-	0	0	-
	Plymouth ...	82	1022·2	+10	NW	2	b	38	75	7	5	-	-	Tr	Tr	2500
	The Lizard ...	240	1022·7	+8	NW	3	bc	41	75	8	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	1023·3	+4	NW	5	bc	45	75	8	8	-	-	4-6	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	1023·1	+2	NW	5	c	45	55	8	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	26	1023·1	+4	NW	5	bc	44	55	8	1	-	-	4-6	4-6	2500
	Chester (Sealand)	16	1021·7	+8	NW	4	bc	41	65	7	5	4	-	1	2-3	2500
8	Manchester ...	235	1020·8	+6	NW	4	bc	36	75	6	-	4	-	0	2-3	-
10	Spurn Head ...	29	1014·6	+12	NW	7	psn	44	65	7	9	-	-	7-8	7-8	2500
	Catterick ...	175	1019·8	+2	NW	4	c	37	85	7	8	6	-	4-6	7-8	2200
	Tynemouth ...	108	1020·0	+2	NW	9	c/pr	46	45	7	2	-	-	7-8	7-8	1500
11	St. Abbs Head	280	1020·6	-6	NW	8	pq	42	85	7	8	4	-	4-6	9	1500
	Leuchars ...	36	1022·4	-6	NNW	3	c	39	75	9	8	-	-	9	9	2500
12	Renfrew (Abbotsl.)	19	1024·8	-6	W	2	N	37	75	6	5	7	-	2-3	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1023·8	+2	NW	6	bc	45	55	8	4	-	6	Tr	2-3	4000
13A	Tiree	22	1025·3	-8	NNW	8	c/s	45	85	7	9	*	*	9+	9+	1800
13B	Stornoway ...	80	1023·1	-24	WSW	4	pc	44	97	7	5	2	-	9+	10	1000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	38	*	*	*	*	*	*	*	*
	Wick ...	119	1021·9	-14	NW	3	rs	39	85	8	5	2	-	2-3	10	2500
16	Sumburgh ...	30	1019·8	-16	NNW	1	c/r	39	85	8	6	7	-	2-3	10	4000
17	Blacksod Point	18	1029·3	0	W	1	c	46	85	8	2	6	-	2-3	9	2500
18	Malin Head ...	84	1026·9	-6	N	3	c	48	65	8	9	3	-	4-6	7-8	4000
	Aldergrove ...	268	1026·9	0	-	0	c	34	92	8	5	3	7	1	10	4500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1029·3	+4	NE	3	b	41	75	9	6	-	-	1	1	4000
	Roches Point	22	1027·7	+4	NE	4	b	41	75	8	-	-	-	0	0	-

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1015·5	+8	NW	4	N	39	65	6	5	-	-	9+	9+	2500	1	*
	Croydon ...	1014·9	+6	NNW	4	c	39	65	6	5	-	-	9+	9+	3500	1	*
	S. Farnborough	1016·1	+2	NW	4	c	37	75	7	5	3	-	7-8	9+	5000	0	*
	Boscombe Down	1018·0	+4	NW	5	N	35	75	7	-	4	-	0	2-3	-	0	*
	Thorney Island	1016·3	+10	NW	4	c	38	85	7	5	4	6	7-8	7-8	5700	0	*
	Lympne ...	1011·9	+22	NW	5	c	38	85	8	5	-	-	9	9	2200	1	§
	Manston ...	1011·1	+14	NW	6	c	42	75	8	8	-	-	9+	9+	2000	1	*
2	Shoeburyness ...	1013·2	+16	NNW	4	rs	39	85	8	6	7	-	9	9+	1500	1	*
	Felixstowe ...	1011·0	+14	NW	5	pr	41	85	8	8	-	-	4-6	4-6	2500	1	
	Gorleston ...	1011·4	+14	NW	7	cq	43	65	7	8	-	-	9	9	1500	1	6
	Mildenhall ...	1014·2	+6	NNW	4	c	37	97	8	5	3	-	4-6	7-8	5700	1	*
	Cranwell ...	1016·9	+2	NNW	4	bc	35	92	7	5	3	-	1	2-3	2500	1	*
3	Birmingham ...	1019·3	0	NNW	4	bc	35	85	6	5	-	6	2-3	4-6	2500	1	*
	Upper Heyford	1017·8	+6	NW	4	c	35	85	7	-	6	6	0	7-8	-	1	*
4	Ross-on-Wye	1020·1	0	N	3	bc	37	75	8	-	7	5	0	2-3	-	0	*
5	Hartland Point	1021·4	-4	NW	5	bc	45	65	8	1	-	6	2-3	4-6	2500	0	5
	Bristol ...	1020·3	0	N	3	b	37	75	7	8	-	-	1	1	4000	0	*
	Portland Bill ...	1018·6	+6	NW	7	bc	40	85	8	5	4	-	2-3	4-6	4000		4
	Plymouth ...	1022·0	+2	NW	1	b	37	75	7	-	-	-	0	Tr	-	0	2
	The Lizard ...	1022·7	0	NW	2	bc	41	65	8	8	6	-	4-6	4-6	1500	0	2
	Scilly (St. Mary's)	1023·4	0	NW	5	c/p	47	65	8	8	6	-	7-8	9	1500	1	
	Guernsey ...																
6	Pembroke ...	1021·9	-2	NW	4	bc	44	65	8	8	6	-	4-6	4-6	2500	1	2
7	Holyhead (Valley)	1021·7	-12	N	4	c	45	45	9	5	2	-	4-6	9+	3000	0	4
	Chester (Sealand)	1021·1	-6	NNW	3	bc	40	75	7	5	7	-	Tr	2-3	2500	1	*
8	Manchester ...	1019·6	-14	NW	3	N	38	85	5	5	4	-	2-3	4-6	4000	1	*
10	Spurn Head ...	1015·2	0	NW	6	c/pc	43	65	7	9	-	-	7-8	7-8	2500	1	6
	Catterick ...	1016·9	-8	NW	5	c	39	75	7	5	2	-	2-3	10	3500	1	*
	Tynemouth ...	1019·0	-6	NW	5	c/r	40	75	6	-	2	-	10	10	1500	1	
11	St. Abbs Head	1018·2	-12	NW	6	rs	40	86	8	5	2	-	7-8	10	2500	1	4
	Leuchars ...	1018·2	-30	SW	3	rs	36	97	6	-	2	-	10	10	2500	1	*
12	Renfrew (Abbotsl.)	1019·7	-30	WSW	3	c	43	85	8	5	2	-	4-6	10	3500	0	*
	Eskdalemuir ...	1019·8	-14	SW	1	c	37	75	8	5	-	-	9+	9+	1500	1	
	Point of Ayre ...	1021·3	-18	N	4	rs	46	75	8	6	2	-	4-6	10	2500	1	4
13A	Tiree	1021·5	-18	NNW	4	c/r	52	92	7	5	-	-	9+	9+	1500	1	4
13B	Stornoway ...	1019·7	-6	NW	5	c	52	85	7	5	2	-	4-6	10	1000	1	3
15	Dalwhinnie ...	1019·1	-22	NNW	1	rs	42	85	6	5	-	-	10	10	1500	1	*
	Aberdeen ...	1018·5	-28	SW	2	rs	37	97	6	6	2	-	4-6	10	2100	1	2
	Wick ...	1014·4	-28	WNW	4	rs	40	92	6	6	2	-	7-8	10	800	1	
16	Sumburgh ...	1015·0	-14	SSW	2	rs	41	92	7	5	2	-	9+	10	1200	1	3
17	Blacksod Point	1027·4	-12	WNW	2	c	47	75	8	4	-	-	7-8	7-8	2500	0	3
18	Malin Head ...	1023·0	-20	NNW	4	c/pr	51	85	8	5	-	-	9	9	2500	0	4
	Aldergrove ...	1023·6	-22	NNW	3	c	44	85	8	5	-	-	10	10	2500	1	*
19	Birr Castle ...	1026·8	-10	N	1	c	32	92	8	5	7	-	7-8	9	2500	0	*
20	Valentia Obsy.	1028·6	-6	NE	1	c	33	92	9	5	3	2	1	9	4000	1	2
	Roches Point	1026·8	-6	N	3	bc	39	85	8	5	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 29th Hrs. (36)
1	London (Kew)	53	35	31	0·3	-	6·7
	Croydon ...	43	35	31	0·1	Tr	6·5
	S. Farnborough	45	35	32	-	-	6·5
	Boscombe Down	44	34	29	-	-	6·3
	Thorney Island	46	36	28	-	-	*
	Lympne ...	42	33	31	0·3	-	6·9
	Manston ...	41	38	34	1	Tr	4·6
2	Shoeburyness ...	43	36	31	0·3	0·1	4·9
	Felixstowe ...	42	36	34	1	0·3	5·7
	Gorleston ...	42	39	39	5	0·6	*
	Mildenhall ...	41	35	32	2	1	3·6
	Cranwell ...	41	34	32	2	1	4·9
3	Birmingham ...	41	34	30	-	-	7·2
	Upper Heyford	43	33	31	-	-	*
4	Ross-on-Wye	44	36	31	0·1	-	6·2
5	Hartland Point	48	42	41	1	Tr	2·4
	Bristol ...	46	36	28	0·4	-	5·2
	Portland Bill ...	47					
	Plymouth ...	48	36	35	1	-	3·3
	The Lizard ...	51	38	*	Tr	0·5	6·7
	Scilly (St. Mary's)	51	43	*	Tr	0·6	4·6
	Guernsey ...						
6	Pembroke ...	51	44	*	-	Tr	2·9
7	Holyhead (Valley)	47	42	39	Tr	-	*
	Chester (Sealand)	45	39	31	-	-	7·1
8	Manchester ...	43	32	28	Tr	-	*
10	Spurn Head ...	44	36	*	3	Tr	3·2
	Catterick ...	39	36	30	5	-	3·7
	Tynemouth ...	45	37	36	2	7	*
11	St. Abbs Head	45	37	*	1	9	*
	Leuchars ...	47	36	26	0·5	1	7·2
12	Renfrew (Abbotsl.)	46	33	25	Tr	-	7·2
	Eskdalemuir ...	42	34	31	Tr	-	6·7
	Point of Ayre ...	46	44	*	-	Tr	6·5
13A	Tiree	47	45	*	-	0·4	7·3
13B	Stornoway ...	46	40	*	-	0·3	5·3
15	Dalwhinnie ...	39	32	27	0·1	2	4·6
	Aberdeen ...	44	35	30	2	8	4·9
	Wick ...	46	37	34	0·4	7	*
16	Sumburgh ...	43	35	23	Tr	2	5·9
17	Blacksod Point	51	41	*	0·6	-	
18	Malin Head ...	48	39	*	0·5	0·1	6·3
	Aldergrove ...	46	32	28	Tr	0·3	8·3
19	Birr Castle ...	49	27	24	-	-	4·2
20	Valentia Obsy.	51	33	27	1	Tr	2·6
	Roches Point	51	38	*	-	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	c bc o 3	c b o 3 bc	b c 3 bc		35	31		-	6·7	*	*	6
Croydon	217	p 3 y b c y	c p s p 3	p s b 3	45	35	31	0·1	Tr	0·5	*	*	5
Greenwich (Royal Observatory)...	149	b c y	b c y	c q x 3	43	37	36	1	1	5·3	71	71	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	45	37	34	0·2			74	77	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	44	36	32	-0·3			68	73	*
Camden Square	110	b	bc	*	44	36	33	0·3	-	*	*	71	*
Kensington	80	b b c p b c	b c	*	45	36	32	Tr	Tr		67	79	*
Hampstead Observatory	450	b c o s h	b c	b	43	34	28	0·2	-		*	79	*

FOREIGN OBSERVATIONS.

Stations	Evening of 29th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Morning of 30th October. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Reykjavik (18h and 07h)	1021·6	SW	3	rs		1021·0	S	1	c	46
Lisbon (18h and 07h)	1014·6	N	3	b	61	1014·4	N	3	c	54
¶Madrid (18h and 07h)										
Cairo (Heliopolis) (18h and 06h)										
Toronto (13h and 01h)										
Washington (13h and 01h)										

Past 24 Hours.	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
	*	*	*	*
	68	52	-	-

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 30th.

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	7-22h 29th	0·1	0-2h. 30th.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ „
6 Moderate „	6½ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

¶ 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; 6/6 per quarter; 25/- per year.

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

Friday 31st October 1941.

No. 29198

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1014·4	-10	N'W	4	c	45	55	7	8	-	6	7-8	9+	1500
	Croydon	1014·2	-8	NW	5	c	45	55	7	9	6	3	4-6	9+	2500
	S. Farnborough	1015·1	-10	NNW	4	c	46	55	7	1	4	6	4-6	9	3000
	Boscombe Down	1017·1	-14	N'W	5	c	45	55	7	1	3	6	2-3	9	2500
	Thorney Island	1005·2	-10	N'W	4	c	47	65	7	2	7	2	2-3	9	2500
	Lympne	1012·3	-6	N'W	6	c	44	65	8	1	-	2	4-6	9	1800
	Manston	1011·3	0	N'W	6	c	45	65	7	7	-	-	4-6	9	2000
2	Shoeburyness	1013·1	-8	NNW	4	c	45	65	7	-	-	7	0	9+	-
	Felixstowe	1010·9	-10	NNW	6	c	46	55	8	1	-	6	2-3	9+	3000
	Gorleston	1011·7	0	N'W	6	c/pr	46	65	7	8	-	-	9	9	900
	Mildenhall	1013·5	-12	NW'N	5	c	44	92	8	5	1	-	2-3	9	3000
	Cranwell	1015·4	-14	N	5	c	43	75	8	2	7	6	2-3	9+	2500
3	Birmingham	1016·4	-16	NW	3	iro	40	85	4	6	-	-	10	10	1500
	Upper Heyford	1015·6	-18	NW'N	4	zo	43	65	6	1	7	6	Tr	9+	1800
4	Ross-on-Wye	1017·3	-20	NNW	3	pr	44	75	8	6	1	-	2-3	10	2500
5	Hartland Point	1019·8	-14	NNW	4	c/r	47	85	8	5	2	-	9+	10	3100
	Bristol	1018·1	-18	NNW	4	c	45	65	8	1	7	-	Tr	10	3500
	Portland Bill	1017·8	-6	N	4	c	48	75	8	2	4	-	4-6	7-8	4000
	Plymouth	1020·2	-8	NW'N	4	c	48	55	8	5	3	-	4-6	9+	3000
	The Lizard	1021·4	-12	NNW	2	c	47	85	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	1022·6	-8	N'E	5	c	50	55	8	8	3	3	4-6	9	1500
	Guernsey														
6	Pembroke	1021·0	-10	NW	5	c	49	85	8	8	6	1	4-6	7-8	2500
7	Holyhead (Valley)	1017·6	-22	NW'W	4	ido	51	85	7	8	1	-	2-3	10	1500
	Chester (Sealand)	1015·9	-38	NNW	1	rr	46	92	6	6	2	-	7-8	10	300
8	Manchester	1015·5	-36	-	0	roro	38	97	5	-	2	-	10	10	5000
10	Spurn Head	1014·2	-4	NNW	4	c	43	85	7	3	6	-	4-6	7-8	2500
	Catterick	1015·1	-30	WNW	1	roro/	41	85	7	5	2	-	7-8	10	3500
	Tynemouth	1015·0	-20	SW	3	c/r	40	92	6	-	2	-	10	10	1000
11	St. Abbs Head	1013·3	-32	NNW	4	ido	46	85	7	5	2	-	7-8	10	2500
	Leuchars	1013·3	-18	WNW	2	c	50	75	9	5	-	-	10	10	3500
12	Renfrew (Abbots I.)	1015·4	-22	NW	3	c	51	75	8	5	7	-	7-8	9+	3200
	Eskdalemuir	1013·9	-26	WNW	3	c	46	75	8	5	2	-	4-6	9+	1500
	Point of Ayre	1016·5	-18	NNW	5	c	52	85	8	4	7	-	1	9+	4000
13A	Tiree	1017·8	-20	NNW	4	c/pr	52	92	8	8	-	-	9	9	1500
13B	Stornoway	1017·2	-8	NW	4	c	51	92	8	5	7	-	7-8	9+	2000
15	Dalwhinnie	1015·6	-6	N	3	c	47	75	6	5	3	-	7-8	9+	1500
	Aberdeen	1013·5	-2	-	0	iro	44	97	6	6	2	-	4-6	10	2100
	Wick	1013·9	-6	NNW	3	roro	49	92	7	8	2	-	9	10	3000
16	Sumburgh	1011·7	-20	SSW	3	dr	46	97	4	-	2	-	10	10	300
17	Blacksod Point	1025·0	-14	WNW	4	c	54	85	8	-	7	-	0	9+	-
18	Malin Head	1019·6	-18	NW	4	c	51	92	7	9	-	-	9	9	1500
	Aldergrove	1018·6	-20	NW'W	4	pr	51	92	7	9	6	8	7-8	9+	2500
19	Birr Castle	1023·5	-22	N	1	c	50	75	8	5	7	-	7-8	7-8	2500
20	Valentia Obsy. †	1026·4	-12	NNW	4	c	53	65	9	5	-	1	7-8	7-8	4000
	Roches Point	1024·2	-18	N	4	c	50	75	8	5	3	-	4-6	7-8	2500

OBSERVATIONS at 18h. G.M.T. 30th October — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 30th (37)	Weather 13h.–18h. 30th (38)	Weather 18h. 30th to 1h. 31st (39)	Weather 1h.–7h. 31st (40)
London (Kew)	1012·9	-6	NW'W	2	c/r	40	85	6	5	2	-	4-6	10	1500	1	*	bzobec	czoirmo	crobew	bbomx
Croydon	1012·9	-8	NW	3	iro	41	75	4	5	2	-	2-3	10	2500	1	*	cmobzo	cyczo	rodcfx	c,bfex
S. Farnborough	1013·4	-6	NW	3	roro	39	92	6	5	2	-	4-6	10	1000	1	*	cb,ey	crorome	crodmF	oFxbm
Boscombe Down	1014·5	-14	N'W	1	roro	39	97	6	5	2	-	9+	10	1400	1	*	bbc	c,crorom	cmrorobc	
Thorney Island	1013·7	-4	N'W	2	roro	40	92	6	-	2	-	10	10	3800	1	**	bbcc	iroororo	ororobc	bmbmx
Lympne	1012·5	0	NW	3	zo	39	85	6	5	-	7	Tr	10	3000	1	§4	bcc	c	cm	bcmpf
Manston	1010·6	-2	NNW	5	c	42	75	6	1	1	-	9	10	2000	0	*	c	c	cm	bcprm
Shoeburyness	1012·3	-4	NNW	3	c	40	85	7	-	7	7	0	10	-	1	*	irobec	c	cbcbm	bcmcf
Felixstowe	1009·9	-10	N'W	4	c	41	85	7	5	1	-	4-6	10	5700	1	3	bccpro	cvyev	c,bmw	prexr
Gorleston	1010·8	-6	NW'N	3	c	42	85	6	8	-	-	7-8	7-8	800	1	4	cq/pr	cqpro	cbcq	cbcpr
Mildenhall	1012·5	-6	NW'N	3	zo	40	97	6	-	1	-	0	10	-	0	*	bcc	ccmo	cbcmw	b,cmg
Cranwell	1013·1	-10	NNW	1	roro	40	92	4	6	2	-	9	10	1400	1	*	bcc	coror	roroFcm	cmbmx
Birmingham	1013·0	-12	SW	1	rf	39	97	2	6	-	-	10	10	450	1	*	bco	orrf	cb	prep
Upper Heyford	1013·5	-10	NW	1	roro	37	97	6	6	2	-	1	10	1200	1	*	cczo	irororomo	roroc	
Ross-on-Wye	1012·9	-20	SW	2	rr	43	97	5	6	-	-	10	10	800	1	*	bcc	croro		cbm
Hartland Point	1015·6	-10	NNW	5	c	52	35	3	8	6	-	7-8	9+	2000	0	5	yiroc	c	cp	crrc
Bristol	1014·1	-14	NNW	1	roro	45	92	6	5	2	-	9	10	1500	1	*	bcc	crorome	orrfc	cfm
Portland Bill	1013·5	-22	NNW	3	c	45	85	7	5	-	-	10	10	2500	0	4	bcc	c	orrr	c
Plymouth	1015·6	-18	NW	4	c/r	49	85	6	8	3	-	4-6	9	2000	1	3	c	cidorom	crorom	crorom
The Lizard	1018·3	-16	NW	5	pr	49	85	8	8	6	-	7-8	9+	1900	1	4	c	cpro	cpr	cprrp
Scilly (St. Mary's)	1019·9	-6	N'W	5	c	50	75	8	8	7	-	7-8	9+	1500	0	5	cbcby	c	cbcc	cido
Guernsey																				
Pembroke	1015·7	-16	NW	5	roro	52	85	8	8	-	-	9	9	2500	1	3	cido	cr	iroprcq	cpr
Holyhead (Valley)	1014·3	-16	NNW	5	iro	52	85	7	8	7	-	9	10	1500	1	3	cdoro	doroc	crororc	cidc
Chester (Sealand)	1012·7	-16	NW'N	4	iro	50	92	6	6	2	-	7-8	10	800	1	*	cmorr	rriromo	rm,bmc	crdmx
Manchester	1012·7	-20	-	0	c/r	39	97	4	-	2	-	10	10	2000	1	*	rorodo	roro	ofm	bbcm
Spurn Head	1012·4	0	NW'N	3	iro	41	92	5	3	-	-	9+	9+	1500	1	4	c	rriro	c	bcir
Catterick	1013·0	-10	S'W	1	rf	39	97	2	5	-	-	10	10	800	1	*	croro	croroff	rrfcm	mbfx
Tynemouth	1013·8	0	SE	3	iro	42	92	6	-	2	-	10	10	1000	1	4	oir	orrff	oirobc	bc
St. Abbs Head	1012·8	+10	SE	2	dodo	44	92	7	5	2	-	7-8	10	2500	1	3	croro	cdo	iroc	c
Leuchars	1013·1	+2	NNE	1	roro	45	97	6	5	7	-	7-8	10	1100	1	*	croiroc	ccrorome	roirmc	crorome
Renfrew (Abbots I.)	1013·3	-6	NNW	3	zo	48	85	6	5	2	-	7-8	10	2500	1	*	c	ciroc	cmidoc	
Eskdalemuir	1012·2	-2	N'E	3	c	47	75	7	5	-	-	9+	9+	1500	1	*	crororc	c		
Point of Ayre	1013·4	-8	N'W	5	roro	52	92	8	8	2	-	7-8	10	1000	1	5	roroirc	roroc	roroc	croc
Tiree	1017·0	0	N'W	4	c	52	92	8	5	-	-	9+	9+	2100	0	4	cpr	c	bc	
Stornoway	1016·2	-2	NW	4	c/pr	50	92	7	8	7	-	7-8	10	1500	1	2	cpro	cpr	c	
Dalwhinnie	1014·6	-4	NE	3	c	45	85	7	5	-	-	9	9	1500	1	*	oirc	oirc		
Aberdeen	1012·9	-8	SSW	1	rr	43	97	2	2	-	-	10	10	1200	1	2	crrfromo	corrf	orrm	ciroc
Wick	1013·5	+4	NW	3	iro	48	92	6	5	2	-	9	10	800	1		ror.cror	doroiro	ciroc	bcddpm
Sumburgh	1011·9	+6	NNE	2	c	44	85	7	5	-	-	9+	9+	1500	1	3	moddrd	rdrdc	irrdm	rdmcpr
Blacksod Point	1022·8	-10	WNW	5	iro	52	75	7	6	-	-	10	10	1500	1	4	c	iro	pro	cq
Malin Head	1016·9	-12	NNW	4	pr	52	97	6	9	-	-	9+	9+	800	1	3	c	cprprc	cprprq	cipc
Aldergrove	1016·2	-16	NW'N	3	ir	51	92	6	6	2	-	9+	10	600	1	*	ror.ccpro	prdodird	irororom	ddpro
Birr Castle	1020·4	-8	N	2	ir	50	85	8	8	2	-	7-8	10	1500	1	*	c	cir		circ
Valentia Obsy. †	1023·6	-18	NNW	4	pr	52	85	8	8	-	-	7-8	7-8	2500	1	4	cxc	bccpro	prqcpro	qPRepr
Roches Point	1021·2	-14	NNW	4	c	49	85	8	5	3	-	4-6	7-8	1500	1	4	bcc	bprc	c	proc

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_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄ gale.
⊕ Solar halo. ⊕ lunar halo. ⌂ Aurora.

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

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–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.

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

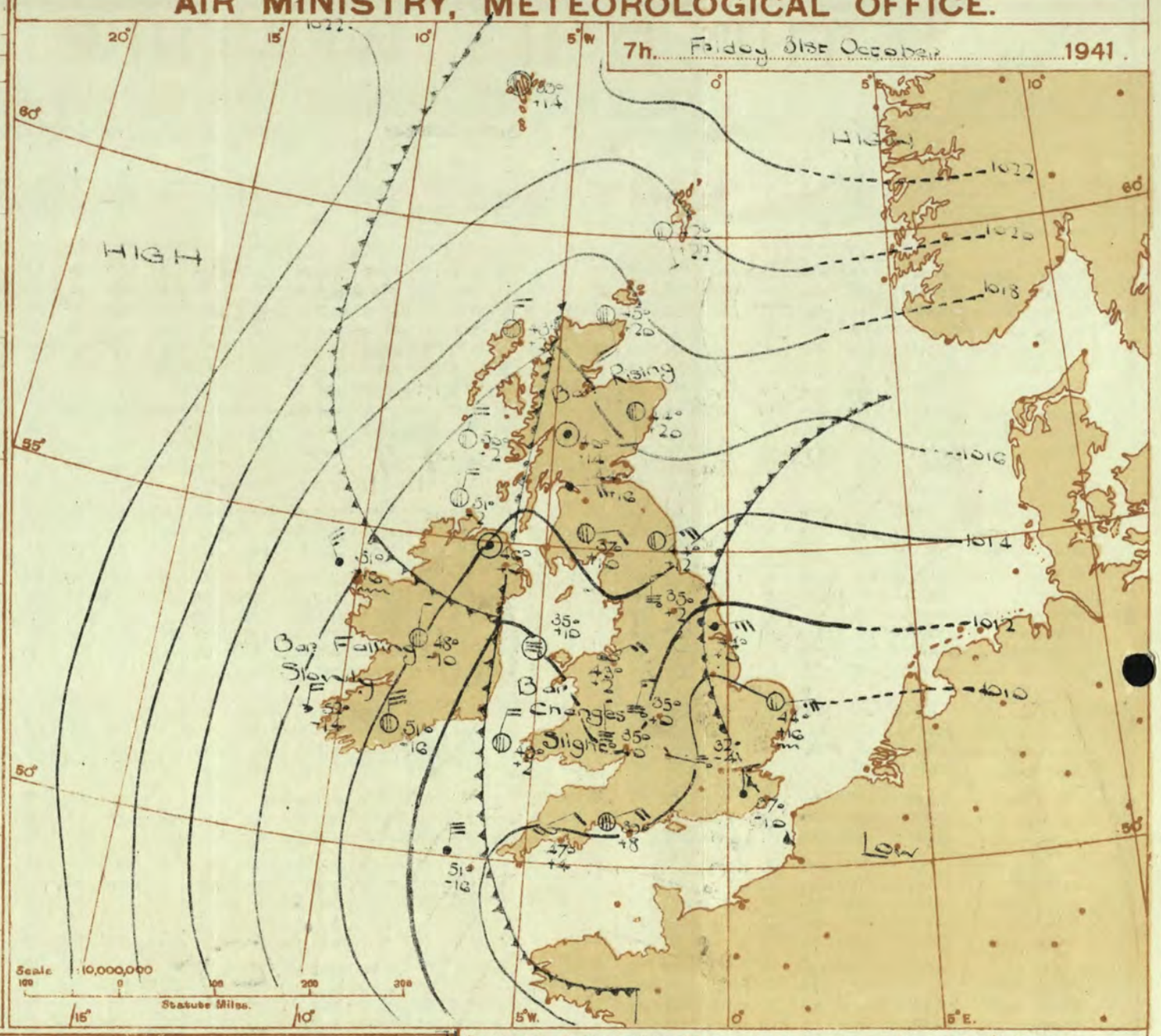
Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 30th October				18h. G.M.T.			01h. G.M.T. 31st October			07h. G.M.T.		
IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
10962	61545	27368	52	12747	30468	5-	02755	32365	5-	61846	12486
11552	81735	28388	52	81736	32388	52	81735	04488	52	81734	04387
2035-	03838	28468				6-	81838	32588			
20652	61864	28268	57	61854	28168	5-	62648	28168	52	02855	30268
21032	62644	29368	8-	61648	28368	57	22846	32367	57	21845	14166
22082	25745	29588	88	02644	29486				82	25746	30488
230			87	02745	29487	83	02756	31187	8-	02857	08117
24562	62635	02368	02	58458	28168	5-	52648	14468	57	22787	12367
26057	02735	26367	57	61655	28268	5-	05644	00058	5-	02756	07226
2788-	03738	28568	8-	21847	27487	57	02865	29367	57	22665	32668
27987	01743	23268	57	05644	00028				53	05565	06256
28552	61634	30568	6-	63638	28568				23	01743	04514
28852	61641	22168	62	62745	00068	50	05562	00062	--	48109	18149
57517	01835	30348	62	61745	28468	51	02855	30468	57	01843	32223
30102	62448	00068	52	05555	31268	5-	05658	04268	54	05562	06153
32152	62743	30368	02	62438	28168	03	46390	29264	87	08482	30343
29930	21747	26457	5-	21748	02368	8-	02746	32466	80	25744	02484
29952	62853	28268	02	62648	00068	08	47190	26213	5-	01155	27265
310--	71428	26428	--	67209	26349				--	01643	32413
614 / 61412	61661	30368	02	62358	19168	07	05690	00044	04	05690	32102
3335-	22747	30567	82	61746	29568	52	02756	30368	57	05654	04387
334--	54547	28258							--	02644	24115
340			02	62428	00068	5-	61438	08368	--	48009	02249
13650	02854	32527	52	05644	29428	83	25866	32386	8-	81757	06287
33651	02763	32317	52	61652	28368				51	02752	32217
35017	05653	28416	52	62528	26268	57	43363	28245	50	05553	30313
36857	05644	30328	57	71747	25367	52	61645	00068	5-	05666	28326
37910	05652	28414				03	49390	32263			
39083	02754	29427	01	05590	28428	5-	45334	28346	8-	81555	28345
382						03	47390	00013	54	41321	30242
43851	02754	30515							50	61754	02504
43013	02853	28415	02	61758	28468	00	05690	30314	53	08461	32401
49052	52747	30368				57	62747	63568	52	61755	04268

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 31st October 1941.



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

FRONTS or boundaries between masses of air of different 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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday October 31st 1941
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.	Mainly moderate winds from between N. and E. fresh locally on east coast; variable cloud; occasional wintry showers; rather cold with local frost at night.
13A. W. Scotland 13B. N.W Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or fresh N. to N.E. winds; cloudy with some rain spreading across from the east at first; local showers and bright intervals later; average temperature becoming rather cold

GENERAL INFERENCE.

Pressure is low to the south of the British Isles, and a trough of low pressure over western Scotland and the Irish Sea is moving west. This trough will give some rain over Ireland at first. Elsewhere and also in Ireland later, weather will be showery and rather cold.

FURTHER OUTLOOK.

Easterly winds; rather cold weather with local showers.

Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Meteorological Office Dunstable. 9269/4020. No. 8176. D. 8034. 6p. 948. 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

Friday 31st October

1941.

Clarke's Projection Scale 1: 4X10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Hours of observation :—Azores, Greenland, Ships oh, G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 31st October 1941.

No. 29,198

OBSERVATIONS at 1 hr. G.M.T. 31st October

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Croydon ...	217	1011·2	-6	N	1		34	97	3	-	-	-	10	10	400
	S. Farnborough	226	1011·3	-14	NNW	1		33	92							
	Boscombe Down	417	1011·9	-2	NE	1		37	92	6	-	4	-	0	2-3	-
	Thorney Island	10	1010·7	-14	NNW	1		36	92	6	-	7	-	0	2-3	-
	Lympne ...	346	1010·4	-6	NNW	4		37	92	5	5	-	-	9+	9+	500
	Manston ...	154	1008·8	-10	NNW	4		41	92	6	5	-	-	9	9	500
2	Shoeburyness ...	11	1010·1	-12	NNW	2		38	92	6	5	*	*	2-3	2-3	2500
	Felixstowe ...	15	1008·8	-10	NNW	3		38	92	6	-	7	-	0	Tr	-
	Gorleston ...	5	1008·4	-10	N	5		46	75	7	2	-	-	2-3	2-3	1200
	Mildenhall ...	19	1010·7	-10	NNW	2		36	97	6	-	3	-	0	4-6	-
	Cranwell ...	240	1012·2	-2	NNW	3		36	97	5	5	3	-	7-8	9+	5000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1011·8	-6	NE	2		33	97	1	1	-	8	0	2-3	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010·6	-22	NW	5		52	92	7	8	2	-	7-8	10	1500
	Bristol ...	209	1011·6	-4	SSW	1		41	97	4	5	-	-	2	10	2000
	Portland Bill ...	32	1010·6	-12	S	3		46	82	7	5	-	-	10	10	2500
	Plymouth ...	82	1010·4	-10	NW	3		51	85	6	6	-	-	9+	9+	2000
	The Lizard ...	240	1012·2	-28	NW	5		50	97	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	163	1014·5	-24	NW	6		52	75	8	8	-	-	10	10	1200
	Guernsey ...	175														
6	Pembroke ...	142	1011·4	-22	NW	6		52	92	7	6	2	-	4-6	10	1500
7	Holyhead (Valley)	26	1011·7	-2	NW	3		48	92	7	5	-	-	10	10	2000
	Chester (Sealand)	16	1012·3	+6	NW	2		42	92	4	-	2	-	4-6	10	800
8	Manchester ...	235	1012·8	+6	-	0		39	97	5	5	-	-	10	10	2000
10	Spurn Head ...	29	1011·8	-2	NE	4		43	95	7	5	-	-	4-6	7-8	2500
	Catterick ...	175	1013·9	+6	NW	1		38	97	4	5	3	-	4-6	7-8	1800
	Tynemouth ...	108	1014·1	+4	E	2		48	75	8	2	3	-	2-3	4-6	2500
11	St. Abbs Head	280	1013·8	+6	SSW	3		40	97	8	5	2	-	7-8	10	1500
	Leuchars ...	36	1013·3	+6	-	0		43	97	8	5	-	-	7-8	7-8	3100
12	Renfrew (Abbotsl.)	19	1013·0	-2	SW	1		46	92	7	5	-	-	9+	9+	3000
	Eskdalemuir ...	794	*	*	*	*		*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1012·5	0	NNE	3		51	85	8	8	3	-	7-8	10	2000
13A	Tiree	22	1013·7	-9	NW	4		50	85	8	5	-	*	2-3	2-3	2800
13B	Stornoway ...	80	1013·2	+2	NNW	3		48	97	7	5	7	-	4-6	9+	2000
15	Dalwhinnie ...	1176	*	*	*	*		*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*		42	*	*	*	*	*	*	*	*
	Wick ...	119	1014·0	+2	NNE	3		45	75	8	5	-	-	10	10	2500
16	Sumburgh ...	30	1013·0	+24	SE	4		43	97	6	6	-	-	10	10	1200
17	Blacksod Point	18	1013·6	-16	WNW	5		53	85	7	9	-	-	9+	9+	1500
18	Malin Head ...	84	1015·2	-12	SW	4		52	85	7	9	-	-	7-8	7-8	1500
	Aldergrove ...	268	1014·7	-6	NW	2		49	97	6	-	2	-	10	10	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	1020·6	-18	NW	4		53	75	8	8	-	-	9+	9+	4000
	Roches Point	22	1016·5	-18	NW	5		51	85	8	8	-	-	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 31st October

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1010·4	-1	NW	1		35	97	5				2-3	2-3	2500	1	*
	Croydon ...	1010·4	-4	NW	-		32	97	4	5	4	1	1	1	800	1	*
	S. Farnborough	1010·5	+2	NW	2		38	85	4	-	4	-	0	Tr	-	1	*
	Boscombe Down	1011·8	+4	NW	3		38	97	5	-	4	-	0	4-6	-	1	*
	Thorney Island	1009·8	-6	NW	2		34	97	6	-	4	-	0	2-3	-	0	*
	Lympne ...	1008·7	-6	NW	3		37	97	5	9	-	-	10	10	3000	1	§ 3
	Manston ...	1007·6	0	NW	4		42	85	6	8	3	-	9	9+	1500	1	*
2	Shoeburyness ...	1009·2	-4	NW	3		39	92	6	5	7	-	7-8	9	2100	1	*
	Felixstowe ...	1008·4	+2	NW	6		44	75	8	8	-	-	9+	9+	2000	1	3
	Gorleston ...	1010·4	+6	NW	6		44	65	7	8	-	-	4-6	4-6	1200	1	5
	Mildenhall ...	1008·8	-2	NW	2		37	97	6	5	7	-	7-8	9+	2500	1	*
	Cranwell ...																*
3	Birmingham ...	1012·6	0	NW	3		35	92	4	-	-	-	0	0	-	1	*
	Upper Heyford	1011·5	-2	NW	3		32	97	3	-	4	-	0	1	-	1	*
4	Ross-on-Wye	1012·2	0	NW	1		33	97	4	-	-	9	0	Tr	-	1	*
5	Hartland Point	1010·5	+2	NW	3		47	85	7	5	2	-	7-8	10	1500	1	4
	Bristol ...	1012·7	+6	NW	3		36	97	4	5	-	-	10	10	500	1	*
	Portland Bill ...	1010·2	+8	NW	4		39	92	8	*	-	-	10	10	2500	0	4
	Plymouth ...	1009·8	+4	NW	2		47	85	6	5	7	-	9	9+	1000	1	-
	The Lizard ...	1010·2	+2	NW	3		47	92	6	5	-	-	10	10	1500	1	3
	Scilly (St. Mary's)	1010·5	-16	W	6		51	92	7	9	2	-	7-8	10	1500	1	
6	Pembroke ...	1011·2	+2	NW	4		45	92	7	8	6	-	7-8	9+	2500	1	2
7	Holyhead (Valley)	1011·5	+2	NW	3		43	85	6	5	-	-	9+	9+	2500	1	3
	Chester (Sealand)	1013·5	+10	-	0		35	92	4	-	4	-	0	4-6	-	1	*
8	Manchester ...	1013·8	+6	-	0		38	97	4	-	3	-	0	4-6	-	5	*
10	Spurn Head ...	1011·3	0	NW	5		44	92	7	3	5	-	4-6	7-8	4000	1	3
	Catterick ...	1014·5	+2	NW	2		35	92	4	2	3	-	Tr	1	2000	5	*
	Tynemouth ...	1014·9	+12	NE	5		44	75	8	2	-	-	4-6	4-6	2000	1	+
11	St. Abbs Head	1014·8	+4	SSE	2		42	85	8	5	7	-	4-6	10	2500	0	2
	Leuchars ...	1015·8	+18	NNW	1		42	97	7	5	7	-	7-8	9+	1000	1	*
12	Renfrew (Abbotsl.)	1014·8	+16	ENE	4		44	92	6	5	2	-	7-8	10	1400	1	*
	Eskdalemuir ...	1015·6	+10	ENE	2		37	92	8	5	4	-	4-6	7-8	1500	1	
	Point of Ayre ...	1013·3	+6	SSE	4		44	92	8	8	2	-	9+	10	1000	1	3
13A	Tiree	1015·4	-2	NE	4		50	85	8	8	-	-	4-6	4-6	2100	0	*
13B	Stornoway ...	1016·7	+2	N	3		43	97	7	5	7	-	7-8	9+	2000	1	2
15	Dalwhinnie ...	1015·1	+14	-	0		40	92	6	5	-	-	10	10	1500	1	*
	Aberdeen ...	1016·9	+20	SSE	2		44	75	8	5	-	-	9+	9+	3100	1	2
	Wick ...	1016·8	+20	SE	4		45	92	7	5	-	-	7-8	9+	1400	1	*
16	Sumburgh ...	1020·0	+22	SE	1		42	75	8	8	3	-	2-3	4-6	1500	1	3
17	Blacksod Point	1016·5	-16	NNW	5		51	87	7	9	-	-	9+	9+	1500	1	5
18	Malin Head ...	1014·6	-2	NE	4		51	92	7	6	-	-	9	9	1500	0	4
	Aldergrove ...	1013·9	0	-	0		46	87	7	8	3	-	9	9+	2500	1	*
19	Birr Castle ...	1014·1	-10	N	1		48	92	8	5	-	-	9	9	2500	1	*
20	Valentia Obsy.	1017·0	-14	N	4		52	85	7	9	-	-	9+	9+	2500	1	4
	Roches Point	1013·1	-16	NNW	6		51	85	8	8	-	-	9	9	1500	2	4

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (31)	Temperatures. Min. Night 18h–7h °F (32)	Temperatures. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine Hrs. (36)
1	London (Kew)	46	34	26	Tr	Tr	3·6
	Croydon ...	46	32	27	Tr	Tr	4·6
	S. Farnborough	47	31	27	0·3	1	6·2
	Boscombe Down	45	32	29	3	4	4·1
	Thorney Island	48	31	25	0·1	2	*
	Lympne ...	45	34	31	-	0·5	5·9
	Manston ...	46	40	35	-	3	4·1
2	Shoeburyness ...	46	34	28	Tr	Tr	3·7
	Felixstowe ...	49	36	33	0·5	2	2·6
	Gorleston ...	47	41	37	0·5	3	0·0
	Mildenhall ...	44	33	28	-	0·4	1·8
	Cranwell ...	44			1		
3	Birmingham ...	43	34	28	5	6	1·3
	Upper Heyford	44	32	32	2	2	*
4	Ross-on-Wye	45	35	30	2	6	2·0
5	Hartland Point	52	53	45	Tr	3	0·2
	Bristol ...	47	35	31	0·6	6	3·6
	Portland Bill ...	48	37	*	-	2	*
	Plymouth ...	49	42	43	0·1	3	3·7
	The Lizard ...	49	46	*	0·5	4	0·5
	Scilly (St. Mary's)	51	49	*	-	1	3·8
6	Pembroke ...	52	48	*	-	6	0·9
7	Holyhead (Valley)	53	43	41	5	2	*
	Chester (Sealand)	50	36	29	8	2	0·2
8	Manchester ...	40	37	25	4	Tr	*
10	Spurn Head ...	45	40	*	1	Tr	1·1
	Catterick ...	42	32	25	3	1	0·3
	Tynemouth ...	42	42	36	3	1	*
11	St. Abbs Head	47	39	*	3	3	*
	Leuchars ...	50	42	39	1	2	0·0
12	Renfrew (Abbotsl.)	51	43	32	2	Tr	0·0
	Eskdalemuir ...	48	37	35	2	1	0·0
	Point of Ayre ...	53	44	*	0·6	2	0·3
13A	Tiree	53	49	*	1	0·1	0·2
13B	Stornoway ...	51	46	*	2	1	0·4
15	Dalwhinnie ...	47	39	38	5	1	0·0
	Aberdeen ...	45	42	40	10	3	0·0
	Wick ...	50	40	38	3	2	*
16	Sumburgh ...	47	41	36	6	1	*
17	Blacksod Point	54	49	*	Tr	2	*
18	Malin Head ...	54	49	*	2	1	0·3
	Aldergrove ...	51	45	41	3	4	0·5
19	Birr Castle ...	51	47	45	0·5	2	0·2
20	Valentia Obsy.	54	48	44	0·1	5	2·6
	Roches Point	52	47	*	0·5	0·1	*

LONDON OBSERVATIONS

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

Stations	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (To-day.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	bz bec	cz i m	eg bbex	46	34	20	Tr	Tr	3.6	*	*	5
Croydon	217	cm bz	eyez	r d ck	46	32	27	Tr	Tr	4.6	*	*	
Greenwich (Royal Observatory) ...	149	bey	ey	ebbbxg	46	34	26	-	0.3	3.7	60	31	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	48	40	36				63	35	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	46	34	28				60	*	*
Camden Square	110	b	o	*	46	35	30			*	*	31	*
Kensington	80	becz	co	*	47	33	25		0.1		67	87	*
Hampstead Observatory	450	b	c	or	44	32	25		0.1		*	91	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. ... 31st

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·2	18-23h. 30th	0·1	15h. 30th.

FOREIGN OBSERVATIONS.

Evening of 30th October ... Morning of 31st October ...

Stations	Barom. mb. (Evening)	Wind. Direc. (Evening)	Wind. Force. (Evening)	Weather. (Evening)	Temp. °F. (Evening)	Barom. mb. (Morning)	Wind. Direc. (Morning)	Wind. Force. (Morning)	Weather. (Morning)	Temp. °F. (Morning)
Reykjavik (18h and 07h)	1020·6	SSW	2	ir	48	1018·4	SSW	1	bc	47
Lisbon (18h and 07h)	1013·3	NNW	2	b	59	1013·6	NNE	4	b	46
¶Madrid (18h and 07h)	888·8	NE	3	b	46	887·9	W	1	-	-
Cairo (Heliopolis) (18h and 06h)	1015·0	E'N	3	b	72	1013·8	SSW	4	b	78
Toronto (13h and 01h)										
Washington (13h and 01h)	1034·9	SE	3	b	45					

Past 24 Hours.

Stations	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Reykjavik	*	*	*	*
Lisbon	68	45	-	-
Madrid	54	*	-	-
Cairo	89	68	-	-

¶ Pressure at 1,000 dynamic metres level. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 6 h. § Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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