M.O. Form 2373

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THE DAILY WEATHER REPORT

BRITISH SECTION

1st October to 31st December

1940

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

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.

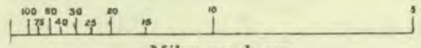
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the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

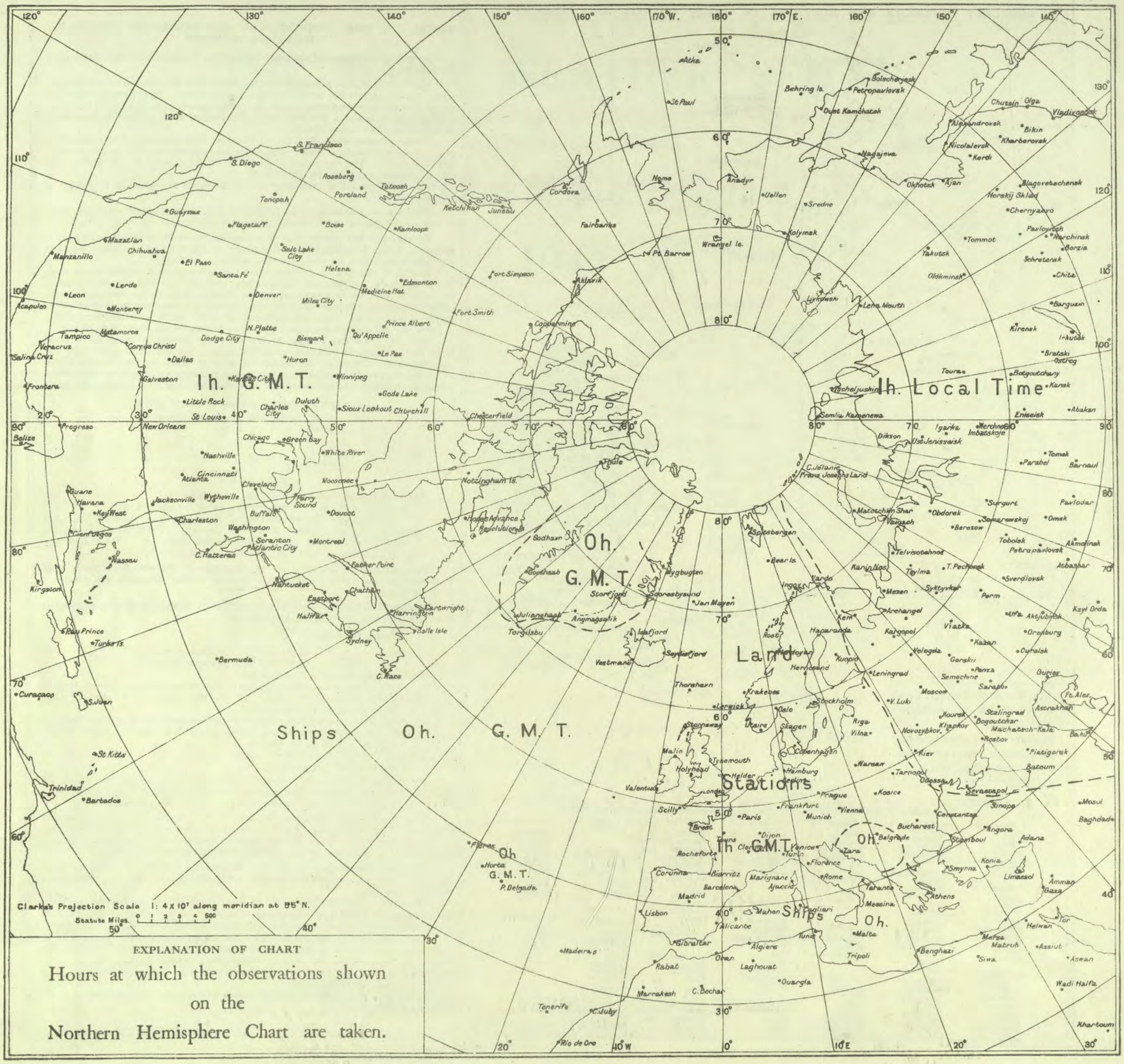
The entries in the British Section of the Report for the stations in the main tables on pages 1 and 4 are compared with those in the returns received from the stations at the end of the month and errors in the Report so found are noted.

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, Cornwall House, S.E.1.

B.39/4049. No. 80501. D. 2714. Gp. 948.300. 4/41



EXPLANATION OF CHART

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

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 12.30 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 nine London Stations during the 24 hours ending 7h. or 9h.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THE INTERNATIONAL AND UPPER AIR SECTIONS.

The other two sections of the Daily Weather Report are Royal quarto in size.

The International Section contains 4 pp. per day and is issued daily by 3.30 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.

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.

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THE DAILY WEATHER REPORT

MONTHLY SUPPLEMENT,

OF THE METEOROLOGICAL OFFICE, LONDON. October 1940 No. 286.

Rather Unsettled, especially in the West and North.

An anticyclone covering Britain moved to Scandinavia and pressure became low over Iceland with very active centres approaching West Ireland. These moved northeastwards causing very unsettled and stormy weather. On the 20th pressure commenced to build up once more over Iceland and as a depression moved southeast from West Ireland to the Mediterranean, rather cold, easterly conditions were experienced. These were maintained until towards the end of the month when a vigorous depression over the Atlantic brought a mild and strong southwesterly type across Britain.

Winds reached gale force in many areas between the 6th and the 11th, becoming widespread on the 9th, when a gust of 93mph was recorded at St. Anne's Head. Gales were renewed on the 15th in the Southwest and on the 29th and 30th in the West and North, extending to the English Channel and to East Anglia on the 31st.

Thunderstorms occurred in South England on the 10th.

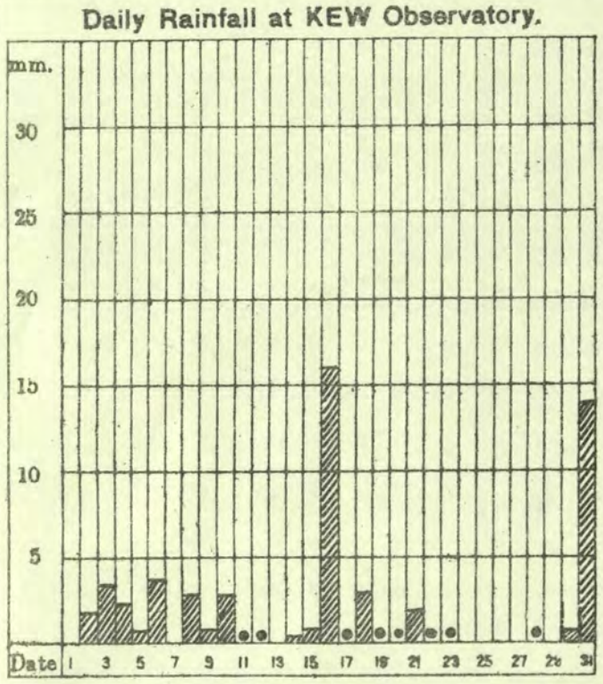
Temperature was slightly below normal particularly after the 23rd, but screen minima below 32°F were rare and restricted to the Midlands and Eastern areas. Ground frosts were not frequent but a minimum of 16°F was recorded at Kew on the 30th.

Local radiation and coastal fogs were formed during the quieter periods of the month but on no occasion did widespread fog persist.

Sunshine was mainly below average. Renfrew (30hrs), Eskdalemuir (48hrs), Sealand (68hrs) Leuchars (63hrs) and Aldergrove (54hrs) experienced their lowest values on record.

Rainfall was mainly near the average in England but in Ireland and West Scotland exceeded the average by over 50mm.

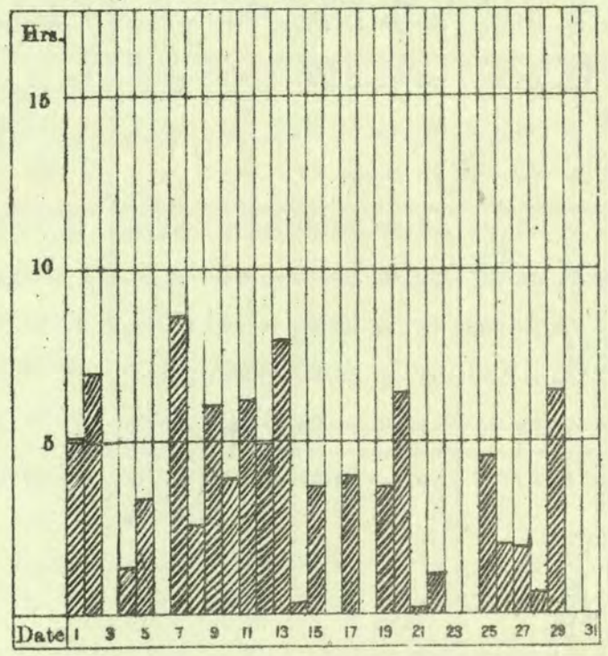
Daily Rainfall at KEW Observatory.



● = Less than 0·5 mm.

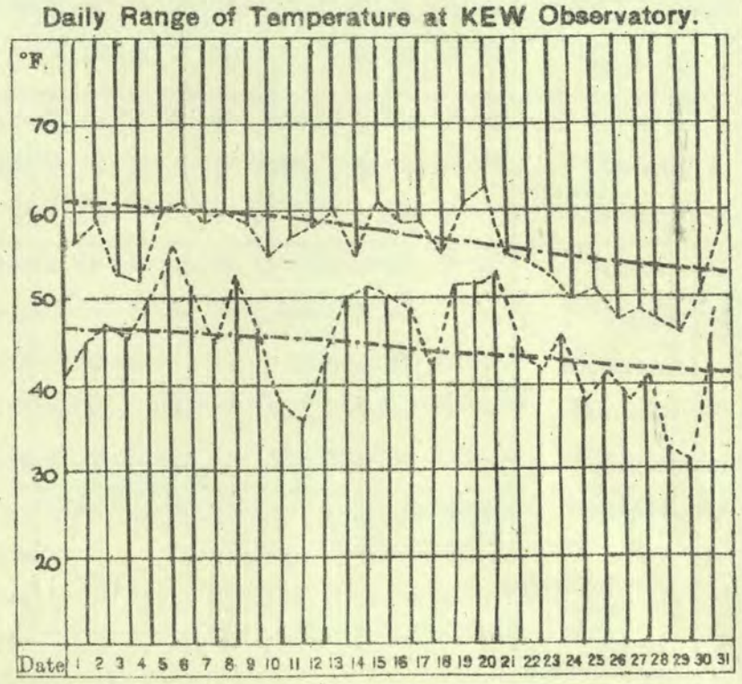
RAINFALL. Total for Month. 61 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 94 hrs.

Daily Range of Temperature at KEW Observatory.



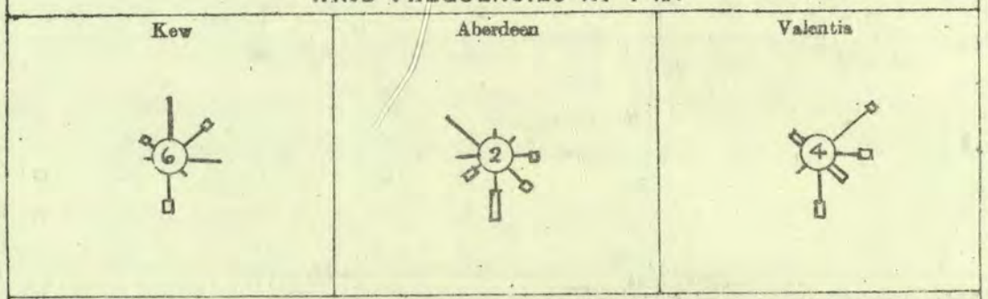
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure: Mean	Pressure: Difference from average	Temperature: Mean	Temperature: Difference from average
	mb.	mb.	°F.	°F.
Kew	1011·7	−2·3	50·5°	−1·1°
Aberdeen	1010·3	−0·7	48·7°	+0·9°
Valentia	1007·5	−5·1	51·9°	−0·8°

*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.



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 ...	6,826
Aberdeen ...	6,219
Lerwick ...	13,452
Valentia ...	8,765

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District.	Stations.	† Temperature. Number of daily readings within fixed limits. Maximum. 35°–41°	42°–50°	51°–59°	60°–68°	69°–77°	Average Maximum.	Minimum. 24°–32°	33°–41°	42°–50°	51°–59°	60°–68°	Average Minimum.	Extremes—Warmest and Coldest. Days. Highest Max.	Date.	Lowest Max.	Date.	Nights. Highest Min.	Date.	Lowest Min.	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.
							°F.						°F.	°F.		°F.		°F.		°F.																					
1	London ... (Kew Obsy).	0	5	19	7	0	57.5	1	6	16	8	0	45.7	63	20	47	29	56	6	32	30	8	4	24	0	1	27	0	3	23	0	0	4	3	3	1	0	0	2	1	10
	Croydon ...	0	7	15	8	1	57.0	2	9	15	5	0	45.1	69	20	47	26	55	6	30	30	2	9	13	0	6	23	0	5	21	0	0	1	4	7	2	0	0	2	3	11
	Calshot** ... (Southampton)	0	2	19	10	0	58.1	0	6	14	11	0	47.3	63	5, 8, 13,	50	26	57	6	38	27	0	3	20	5	5	25	0	5	13	8	0	0	0	2	11	0	0	0	2	21
	Lympne ...	0	7	14	10	0	56.5	1	7	16	7	0	45.4	65	13, 20	45	26	55	6	31	30	8	13	13	1	8	20	0	6	18	2	0	1	0	5	14	0	0	0	2	20
2	Shoeburyness ...	0	5	17	9	0	58.4	0	10	12	9	0	45.1	64	6	48	28	54	20	33	12	5	7	16	0	3	26	0	5	17	3	0	3	3	2	13	0	0	1	2	13
	Gorleston ...	0	4	22	5	0	57.1	0	5	14	12	0	46.5	64	9	46	29	54	6, 20	38	30	0	6	17	0	1	27	0	4	23	0	0	1	0	0	8	0	0	0	0	12
	Cranwell ...	0	8	15	8	0	56.1	2	7	19	3	0	43.0	61	3, 6, 8, 9, 20,	45	29	53	17	26	30	4	12	14	2	5	25	0	7	21	0	0	4	2	3	7	0	1	0	0	18
3	Birmingham ... (Edgbaston)	0	6	21	4	0	54.5	0	8	20	3	0	44.2	61	8, 20	44	29	56	6	34	29	5	11	15	1	5	23	0	8	17	0	1	0	5	12	3	0	0	0	3	8
4	Ross-on-Wye ...	0	5	19	7	0	56.7	1	8	17	5	0	44.2	62	6, 17	46	29	56	6	31	12	8	9	21	0	2	29	0	5	24	0	0	2	2	6	9	0	0	0	0	18
5	The Lizard ...	0	0	24	7	0	*	0	1	16	14	0	*	62	17	51	26	56	6, 20	41	27	*	4	27	0	3	28	0	3	28	0	0	0	1	0	25	0	0	1	1	26
7	Holyhead ...	0	4	25	2	0	55.5	0	2	20	9	0	49.5	61	16, 20	49	27	54	6, 20, 31,	39	28, 29	0	1	28	1	5	22	2	4	21	1	0	0	0	0	22	0	0	0	0	20
8	Chester ... (Sealand)	0	5	21	5	0	56.5	2	9	14	6	0	43.8	63	21	44	31	54	6	28	28	7	3	26	1	1	26	2	4	25	0	0	2	3	4	4	0	0	0	2	10
10	Tynemouth ...	0	8	23	0	0	54.6	0	4	20	7	0	45.3	58	8, 9	47	27, 29	53	9	38	29	0	3	27	0	3	27	0	1	29	0	0	0	0	2	9	0	0	1	1	12
11	Leuchars ...	0	7	22	2	0	53.8	0	11	19	1	0	41.4	61	1	47	29	51	20	36	29	3	6	22	1	6	24	0	6	21	0	0	0	1	1	20	0	0	0	0	24
12	Renfrew ...	0	8	21	2	0	53.6	1	10	19	1	0	41.9	60	2, 13	46	26, 27	51	16	32	25	4	5	26	0	1	30	0	3	26	0	0	2	0	4	13	0	0	0	3	18
	Eskdalemuir ...	0	12	19	0	0	51.1	1	14	16	0	0	39.6	57	16	44	29	48	21	28	29	6	15	14	1	9	22	0	10	19	0	0	0	0	0	19	0	0	0	0	22
13B	Stornoway	0	5	26	0	0	51.7	1	4	19	7	0	42.7	57	4, 22, 23	47	27	54	5	32	24	*	3	28	0	3	28	0	1	30	0	0	0	0	0	28	0	0	0	0	25
15	Aberdeen ..	0	10	21	0	0	53.0	0	6	23	2	0	42.6	59	5	46	26	53	16	34	26	0	6	23	0	7	24	0	7	24	0	0	0	1	1	15	0	0	0	0	16
18	Aldergrove ...	0	5	26	0	0	*	0	11	19	1	0	*	59	2	47	24	53	20	34	27	5	8	23	0	4	27	0	4	25	1	0	1	0	3	19	0	0	0	0	20
19	Dublin ... (Phœnix Park)						56.5						41.9										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birr Castle ...	0	4	27	0	0	55.6	2	6	19	4	0	43.7	59	16, 20, 22.	49	26	52	30	24	28	3	1	27	0	0	29	0	3	26	0	0	0	2	0	29	0	0	1	0	30
20	Valentia ... (Cahirciveen)	0	1	24	6	0	56.5	0	4	17	10	0	48.8	61	3, 6	50	26	55	6, 13, 30	36	28	0	4	24	0	2	28	1	5	23	2	0	0	0	0	26	0	0	0	0	29

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	47.9	48.0	62	46.7	61		
850	4740	38.9	38.5	62	36.8	62		
750	8040	30.7	31.0	62	31.0	62		
650	11,750	20.0	20.3	62	20.3	62		
550	15,960	6.3	6.9	62	6.5	62		

UPPER WINDS.

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

Station Height. Metres.	Lympne. 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.	47	9	30	5	0	0	59	14	30	14	0	0	35	12	17	5	1	0	85	31	41	13	0	0	500 above ground.
1000 above M.S.L.	42	12	23	6	0	0	45	10	31	4	0	0	29	6	17	4	0	0	53	21	21	11	0	0	1000 above M.S.L.
2000 " "	18	4	12	0	0	0	21	7	13	1	0	0	13	5	5	2	0	0	9	3	5	1	0	0	2000 " "
3000 " "	9	1	6	0	0	0	13	5	8	0	0	0	6	1	3	2	0	0	5	2	3	0	0	0	3000 " "
4000 " "	4	2	2	0	0	0	5	1	0	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0	4000 " "

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

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

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

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

SUNSHINE, RAINFALL, AND HUMIDITY ..... October 1940

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.
1	London ... (Kew Obsy).	8	8	8	7	0	8·8	7	1594	+125	94	-2	1880	153	1921	50	1894
	Croydon ...	8	8	6	7	2	9·2	13, 20	1587	+62	105	+1	1922	184	1921	75	1934
	Calshot** ... (Southampton)	6	6	10	8	1	10·7	7	1862	+116	118	-1	1881	178	1921	62	1915
	Lympne ...	6	12	4	6	3	9·7	11	1786	+21	113	-6	1921	184	1921	76	1934
2	Shoeburyness ...	7	9	8	6	1	9·1	7	1654	-62	105	-18	1919	191	1920	77	1934
	Gorleston ...	6	6	8	10	1	9·2	7	*	*	128	+13	1908	183	1920	71	1932
	Cranwell ...	9	12	4	5	1	9·3	7	1563	+25	79	-35	1921	160	1931	75	1937
3	Birmingham ... (Edgbaston)	8	13	7	2	1	9·2	7	1405	+101	66	-25	1887	149	1921	27	1934
4	Ross-on-Wye ...	2	22	5	1	1	9·4	7	1549	+64	65	-34	1915	156	1919	37	1915
5	Falmouth ... (Observatory)	5	9	5	11	1	9·7	7	1823	+113	124	+11	1881	159	1919	81	1886, 1924
7	Holyhead ...	8	12	4	5	2	9·4	11	1585	+35	83	-14	1914	128	1922, 1931	61	1916
8	Chester ... (Sealand)	7	14	7	3	0	7·6	11	1493	+117	68	-23	1928	127	1931	72	1925
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*	*	*	*
11	Leuchars ...	10	13	4	4	0	6·8	7	1371	-55	63	-43	1922	139	1926	73	1935
12	Renfrew ...	14	13	4	0	0	4·7	13	1165	-28	30	-48	1921	102	1923	47	1935
	Eskdalemuir ...	12	10	9	0	0	5·7	24	1074	-127	48	-35	1910	113	1931	51	1935
13B	Stornoway	8	16	4	3	0	8·3	24	1057	-158	65	-12	1881	135	1898	34	1921
15	Aberdeen ...	13	9	7	2	0	8·2	11	1306	-23	61	-33	1881	139	1923	47	1886
18	Aldergrove ...	10	13	6	2	0	7·5	26	1190	*	54	*	1927	117	1939	60	1934
19	Dublin ... (Phœnix Park)												1881	160	1891	59	1916
	Birr Castle ...	13	10	7	1	0	6·1	7	1276	-30	48	-42	1881	138	1899	45	1916
20	Valentia ... (Cahirciveen)	8	12	5	5	1	9·2	17	1610	+242	94	+4	1880	166	1880	50	1916

Stations.	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.
London ... (Kew Obsy).	15	4	10	1	1	0	17	16	590	-16	61	-8	1856	156	1865	11	1921	1	0
Croydon ...	13	5	9	2	2	0	15	16	601	-78	78	+2	1921	154	1939	17	1921	0	0
Calshot** ... (Southampton)	15	3	4	3	0	0	12	16	664	+18	86	-8	1871	281	1903	15	1931	1	0
Lympne ...	13	6	7	4	1	0	18	10	631	-93	84	-15	1920	276	1939	7	1921	1	0
Shoeburyness ...	14	3	11	3	0	0	10	21	501	-2	55	-5	1920	173	1939	12	1931	0	0
Gorleston ...	16	4	8	3	0	0	13	31	545	-77	55	-19	1871	219	1892	7	1920	0	0
Cranwell ...	13	6	8	2	2	0	20	16	545	-45	83	+10	1917	114	1924	14	1931	0	0
Birmingham ... (Edgbaston)	14	4	7	3	3	0	25	31	761	+87	111	+40	1893	166	1903	12	1922	0	0
Ross-on-Wye ...	16	1	4	8	2	0	23	16	688	-29	107	+23	1859	216	1907	14	1904, 1922	1	0
Falmouth ... (Observatory)	11	6	7	6	1	0	21	8	980	-127	108	-18	1871	274	1924	18	1931	0	0
Holyhead ...	18	4	3	4	2	0	18	9	835	-52	105	+4	1871	265	1872	37	1879	0	0
Chester ... (Sealand)	14	8	3	5	1	0	20	6	759	+121	79	+5	1922	121	1932	11	1922	0	0
Tynemouth ...	12	4	8	7	0	0	11	6	681	+60	75	-1	1915	144	1939	31	1922	0	0
Leuchars ...	14	6	4	6	1	0	16	30	695	+42	90	+24	1922	158	1932	25	1931	1	0
Renfrew ...	12	4	4	8	2	1	31	8	940	+1	143	+56	1921	211	1935	51	1922	0	0
Eskdalemuir ...	13	5	4	3	2	1	35	5	1336	-33	151	+14	1910	300	1928	46	1914	1	0
Stornoway	9	6	10	4	2	0	21	9	996	-270	116	-16	1870	259	1874	47	1915	0	0
Aberdeen ...	13	6	4	8	0	0	13	30	759	+11	82	+6	1871	169	1932	18	1899	0	0
Aldergrove ...	16	5	2	5	2	1	36	8	925	+87	127	+51	1926	146	1938	51	1939	0	0
Dublin ... (Phœnix Park)													1865	201	1880	17	1904		
Birr Castle ...	13	3	6	5	2	2	34	9	884	+57	158	-84	1862	185	1870, 1938	16	1869	0	0
Valentia ... (Cahirciveen)	11	1	4	7	6	2	34	12	1362	-52	238	+96	1866	272	1916	51	1905	1	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	5	11	4	6	5	0	0	0
Ross-on-Wye ...	0	2	2	8	11	7	1	0	0	0
Falmouth (Obsy.)	0	7	9	9	4	2	0	0	0	0
Renfrew ...	0	0	4	13	12	2	0	0	0	0
Eskdalemuir ...	0	0	8	5	9	9	0	0	0	0
Aberdeen ...	1	1	6	14	4	5	0	0	0	0
Valentia ...	0	0	2	11	13	4	1	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)	2	29	0	0	0	0	0	0	0	0
Ross-on-Wye	2	29	0	0	0	0	0	0	0	0
Renfrew ...	0	30	1	0	0	0	0	0	0	0
Eskdalemuir	2	29	0	0	0	0	0	0	0	0
Aberdeen ...	6	25	0	0	0	0	0	0	0	0
Valentia ...	10	21	0	0	0	0	0	0	0	0

CODE for State of Ground.

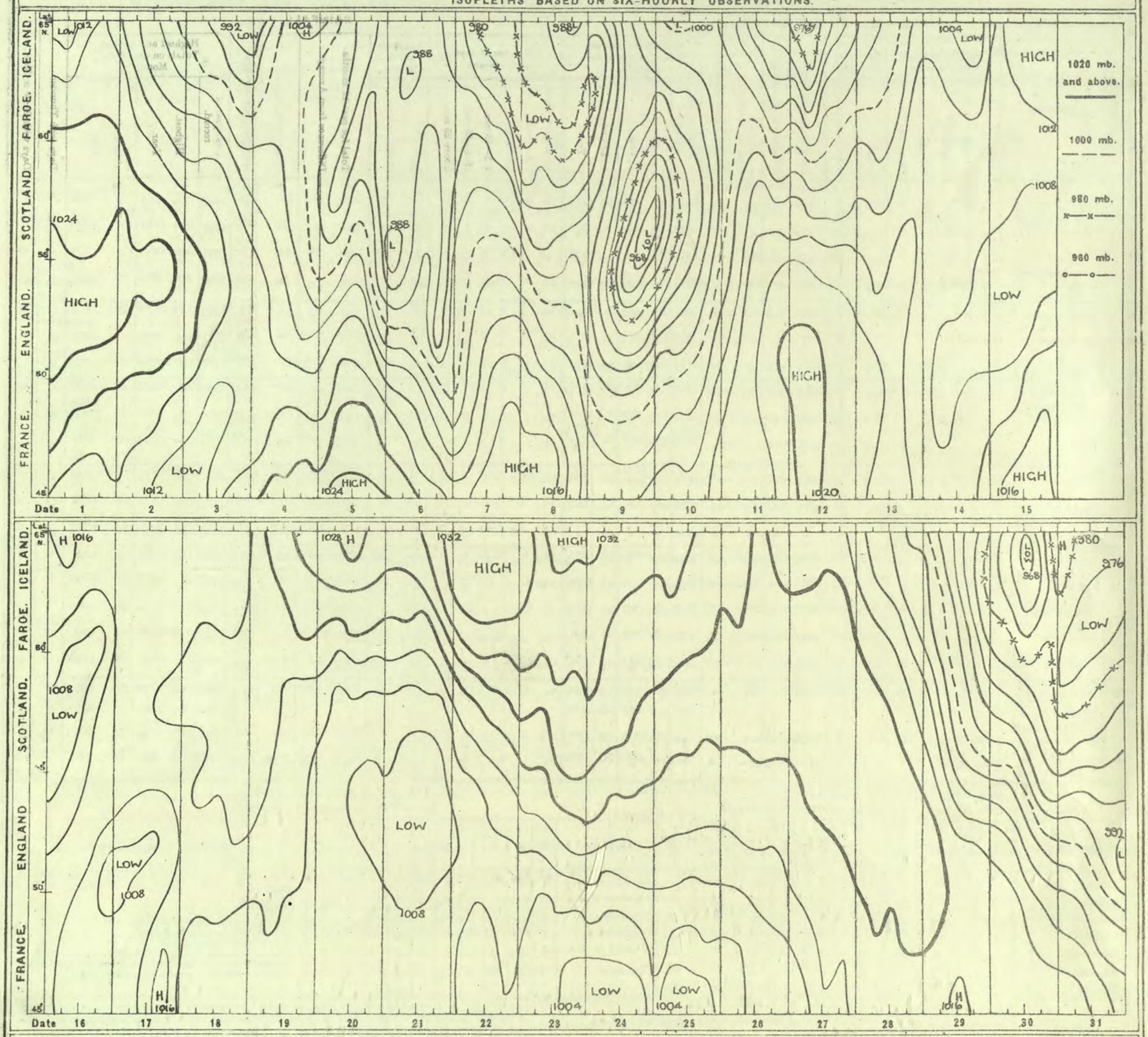
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry.
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow, greater than 6 ins. deep.

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

‡ Based in part on reports made by telegraph in which the day and night measurements are rounded off to the nearest whole millimetre. Small discrepancies may arise between these totals and those given in the Monthly Weather Report which are based on readings taken to 0·1 mm.

PRESSURE: ICELAND TO GULF OF LIONS ..... October ..... 1940.

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, Cornwall House, S.E.1.

G.31/3956.(15.5048.D.3702.6p.948.300.11/40

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 1st October. 1940.

No. 28,803.

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)	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)...	1025·8	-10	NE	3	zo	56	55	6	5	-	-	9+	9+	2500
	Croydon	1025·9	-6	SSE	1	c	54	65	6	5	-	-	4-6	9+	2000
	S. Farnborough	1026·1	-6	ENE	3	c	55	55	7	8	3	-	4-6	9+	3000
	Boscombe Down	1026·0	-6	ENE	3	c	54	55	7	8	-	-	7-8	7-8	4000
	Calshot (Soton.)	1025·4	-6	NNE	3	c	60	55	7	8	-	-	9+	9+	3500
	Lympne ...	1025·2	-2	NE	2	c	55	55	9	1	-	-	7-8	7-8	3500
	Manston ...	1026·7	-6	ENE	3	c	57	55	8	8	-	-	9+	9+	2800
2	Shoeburyness ...	1025·9	-6	ENE	3	c	56	55	8	8	-	-	9+	9+	4000
	Felixstowe ...	1026·0	-6	ENE	3	c	55	55	8	8	-	-	9+	9+	3000
	Gorleston ...	1026·5	-4	NE'N	2	c	56	55	7	8	3	-	4-6	7-8	6000
	Mildenhall ...	1026·6	-8	NE	3	c	56	55	8	8	7	-	4-6	7-8	2500
	Cranwell ...	1027·5	-8	NE'N	2	c	55	65	7	8	7	-	7-8	9	2500
3	Birmingham	1027·3	-8	NE	2	zo	53	65	6	8	-	-	9+	9+	4000
	Upper Heyford	1026·6	-6	NE'N	3	c	55	55	8	8	-	-	9	9	2200
4	Ross-on-Wye ...	1026·4	-12	NE	3	bc	58	55	7	2	-	-	4-6	4-6	4000
5	Hartland Point	1026·2	-6	NE	4	bc	55	75	8	7	4	-	4-6	4-6	2500
	Bristol	1026·8	-10	NNE	3	c	55	65	7	8	-	-	7-8	7-8	3000
	Portland Bill ...	1025·7	+10	NE	4	c	58	92	8	5	-	-	10	10	4000
	Plymouth ...	1025·7	-4	E	3	bc	58	45	8	1	4	-	4-6	4-6	3500
	The Lizard ...	1025·6	+4	E'N	3	bc	57	75	8	2	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	1026·1	-6	NE'N	4	bc	57	55	7	8	-	-	2-6	4-6	1600
	Guernsey ...														
6	Pembroke ...														
7	Holyhead ...														
	Chester (Sealand)	1028·2	-2	NW	1	zo	53	65	6	5	3	-	7-8	9	3900
8	Manchester ...	1028·2	-2	NE	1	zo	53	65	6	5	-	-	4-6	9+	2800
10	Spurn Head ...	1028·2	0	NE'E	3	c	54	75	7	2	6	-	7-8	9+	4000
	Catterick ...	1028·5	-10	-	0	c	52	65	7	5	-	-	10	10	8500
	Tynemouth ...	1028·6	-4	SW	2	zo	51	65	6	8	-	-	9	9	2800
11	St. Abbs Head	1027·8	-6	SW	2	bc	52	65	7	7	4	-	4-6	4-6	2500
	Leuchars ...	1027·1	-10	NW	2	bc	55	65	7	7	-	-	2-3	2-3	4000
12	Renfrew (Abbots I.)	1028·1	-10	WSW	3	c	52	65	8	5	-	-	10	10	3000
	Eskdalemuir ...	1028·2	-2	SW'W	2	c	50	65	8	5	-	-	9+	9+	4000
	Point of Ayre ...	1028·6	-2	N'E	1	c	55	75	8	5	·	-	10	10	4000
13A	Tiree	1027·3	0	WSW	1	bc/r	56	85	8	7	3	-	4-6	4-6	2500
13B	Stornoway ...	1025·3	-4	SSW	3	c	53	85	8	5	7	-	9	10	2800
15	Dalwhinnie ...	*	-8	NW	1	c	50	75	8	2	-	-	9	9	2500
	Aberdeen ...	1026·7	-8	S'E	2	bc	56	65	6	7	-	-	4-6	4-6	4000
	Wick	1025·5	-6	SW	2	c	53	65	8	5	7	8	4-6	9	2500
16	Lerwick... ...	1023·6	-12	WSW	5	c	51	85	8	8	7	-	7-8	9+	1500
17	Blacksod Point..	1029·2	0	-	0	c	53	85	8	-	7	-	0	10	-
18	Malin Head ...	1028·5	-4	SW'S	3	c/p	54	85	8	3	-	-	7-8	7-8	5700
	Aldergrove ...	1029·0	-2	WNW	1	c	52	65	8	5	-	-	10	10	3000
19	Birr Castle ...	1029·2	0	SE	1	c	52	65	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1028·7	-6	N	1	o	55	65	8	5	-	-	10	10	4000
	Roches Point ...	1027·9	-6	SE	3	c	56	75	8	5	-	-	9	9	2500

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

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)	1024·4	-10	NE	3	zo	54	55	6	5	-	-	7-8	7-8	2500	0	*
Croydon	1024·1	-10	NE	1	m	52	75	4	5	7	-	4-6	7-8	3500	0	*
S. Farnborough	1024·5	-8	NNE	2	zo	54	65	6	5	3	-	7-8	9+	3000	0	*
Boscombe Down	1024·3	-6	-	0	c	51	75	7	5	-	-	9	9	4000	0	*
Calshot (Soton.)	1024·2	-6	N'E	3	zo	54	65	6	5	-	-	9+	9+	5700	0	1
Lympne	1023·8	-8	ENE	2	bc	45	85	8	4	-	-	4-6	4-6	3500	1	§
Manston	1024·6	-14	NE'N	2	pr	53	97	7	8	3	-	9	9	1200		*
Shoeburyness	1024·4	-8	NE'E	3	c	52	75	8	5	1	-	4-6	9	4000	0	*
Felixstowe	1024·7	-6	NE'N	2	c	53	75	8	7	6	-	4-6	9	2000	0	1
Gorleston	1025·4	0	ENE	4	bc	54	65	7	8	-	-	4-6	4-6	1800	0	3
Mildenhall	1025·3	-4	NE	2	c	53	65	8	4	6	-	7-8	9	4000	0	*
Cranwell	1026·5	-6	NE	3	c	51	75	8	5	-	-	7-8	7-8	5000	0	*
Birmingham	1025·8	-4	NNE	2	zo	53	65	5	5	3	-	4-6	4-6	1500	0	*
Upper Heyford	1025·7	-2	NNE	3	bc	52	75	8	5	3	-	4-6	4-6	5500	0	*
Ross-on-Wye	1025·4	-6	N	3	zo	53	65	6	5	-	-	9+	9+	2500	0	*
Hartland Point	1024·8	-4	NNE	3	bc	55	65	8	2	4	-	2-3	4-6	2500	0	2
Bristol	1025·4	-4	NE	1	zo	52	65	6	4	-	·	4-6	4-6	5100	0	*
Portland Bill	1024·0	-10	NE	4	c	58	92	8	5	-	-	10	10	2500	0	3
Plymouth	1024·6	-2	ENE	2	c	56	55	8	7	-	1	7-8	7-8	3000	0	2
The Lizard	1024·6	-6	ENE	2	c	53	65	8	8	6	-	7-8	7-8	2500	0	2
Scilly (St. Mary's)	1025·0	-6	NE'N	3	c	55	65	8	8	-	-	9	9	1500	0	2
Guernsey																
Pembroke	1026·2	-8	N'E	4	bc	51	75	8	5	7	·	2-3	2-3	2500	0	1
Holyhead	1026·9	-4	E'S	3	c	52	75	7	5	3	-	9	9+	3500	0	1
Chester (Sealand)	1027·3	-4	NW	1	zo	48	75	6	-	-	-	0	0	-	0	*
Manchester	1026·8	-6	N'E	2	m	46	92	4	-	-	·	0	0	-	0	*
Spurn Head	1026·9	-4	N'E	3	c	52	75	7	4	4	-	7-8	9+	4000	0	2
Catterick	1027·3	-6	-	0	zo	49	75	6	5	-	-	4-6	4-6	4000	0	
Tynemouth	1027·3	-8	S	2	zo	51	75	6	8	-	-	7-8	7-8	2800	1	2
St. Abbs Head	1026·5	0	WNW	2	c	50	75	7	5	4	7	4-6	10	2000	0	1
Leuchars	1025·6	-6	SW	2	bc	50	75	6	-	7	9	0	4-6	-	0	*
Renfrew (Abbots I.)	1027·0	-6	SW'W	2	c	50	85	6	5	-	-	10	10	2500	1	*
Eskdalemuir	1027·0	-6	NW'W	3	c	47	75	8	5	-	-	9+	9+	4000	1	*
Point of Ayre	1027·4	-8	NW'N	1	c	53	75	8	5	2	-	7-8	10	4000	0	1
Tiree	1026·1	-2	WSW	3	dd	51	97	6	-	2	-	9+	9+	800	1	2
Stornoway	1025·5	-2	SW	3	c	52	85	8	5	7	7	7-8	9+	2000	0	2
Dalwhinnie	*	-4	SW	1	o	47	75	7	5	-	·	10	10	1500	0	*
Aberdeen	1025·5	-2	N	1	c	52	75	6	5	-	-	9+	9+	2500	0	1
Wick	1024·2	-4	SW	2	c	50	85	8	5	2	-	9	10	4000		·
Lerwick	1022·3	-2	SW	5	c	50	85	8	5	7	-	7-8	9	1500	1	*
Blacksod Point	1027·8	-8	-	0	c	52	92	8	-	7	-	0	9+	-	1	0
Malin Head	1027·3	-8	WNW	2	c	52	75	8	8	6	-	4-6	7-8	4000	0	0
Aldergrove	1027·9	-8	-	0	c	50	75	8	5	-	-	10	10	3000	0	*
Birr Castle	1028·0	-4	S	1	c	51	75	8	5	-	-	9+	9+	2500	0	*
Valentia Obsy. †	1027·7	-6	N.	2	o	53	65	8	5	-	-	10	10	4000	0	1
Roches Point	1027·1	-2	E	2	c	53	65	8	5	-	-	9	9	2500	0	2

PAST 24 HOURS.

Stations.	Weather 7h.—13h. 30th. (37)	13h.—18h. 30th. (38)	18h. 30th to 1h. 1st. (39)	1h.—7h. 1st. (40)
London (Kew)	cmo	czoybcy	bcyebcw	bcwmo
Croydon	bcfcfzo	bczo	*	bmocm
S. Farnborough	cmoy	cymo	cmob	bmofcmo
Boscombe Down	bcmoc	c	bcb	bmow
Calshot (Soton.)	c	cyczo	cmobmo	bmowbc
Lympne	bbcy	procbc	bcbwc	
Manston	bcbcy		*	
Shoeburyness	cbccy	cyc	cbcb	bbc
Felixstowe	ccy	cvypcvc	cvbcc	cbcc
Gorleston	cproy	cybc	bc	bc
Mildenhall	cmowprcbcy	bcycvc	bmofgw	bmdwbcmx
Cranwell	bcmczc	cr	cbccmo	cr
Birmingham	fcz	cbcz	bcb	bicm
Upper Heyford	bmobcc	cbc	bcbbcmo	cbcmojf
Ross-on-Wye	czobc	bcyc	cbcc	bccmo
Hartland Point	cbc	bc	c	cbcc
Bristol	bczocy	cybczo	bczofbcm	bcmomw
Portland Bill	c	c	oc	bc
Plymouth	bbcy	bcyc	czobzczo	czobzb
The Lizard	bc	bcc	cbc	bc
Scilly (St. Mary's)	cbcy	bcc	cbc	bcc
Guernsey				
Pembroke		cbc	bc	bccmo
Holyhead		c	cmoc	cmoc
Chester (Sealand)	cmozc	bcbzo	zomowb	ffmc
Manchester	cmzo	czobzm	bmffw	bffwcff
Spurn Head	c	c	cb	c
Catterick	c	cbcmo	bcmocmo	cmof
Tynemouth	c	c	cbc	bcoc
St. Abbs Head	cocbc	bcc	bc	bc
Leuchars	bwmobc	bcbmbcmo	cmo	cmoc.
Renfrew (Abbots I.)	bcofcmo	c	circ	cmoircido
Eskdalemuir	c	c	co	ocido
Point of Ayre	c	c	c	c
Tiree	crbc	bcc	bbc	cdr
Stornoway	pro	cpr	cdd	cdd
Dalwhinnie	bcc	co	*	co
Aberdeen	bbczo	bcczo	czo	czo
Wick	bcc		c	cdodo
Lerwick	cido	c	ciroro	croro
Blacksod Point	c	c	cbc	c
Malin Head	cidcjpvc	c	cidrc	*
Aldergrove	c	c	c	c
Birr Castle	c	c	c	c
Valentia Obsy. †	bcwco	oco	bcbbccw	cwobbcc
Roches Point	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. r₀, 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.*

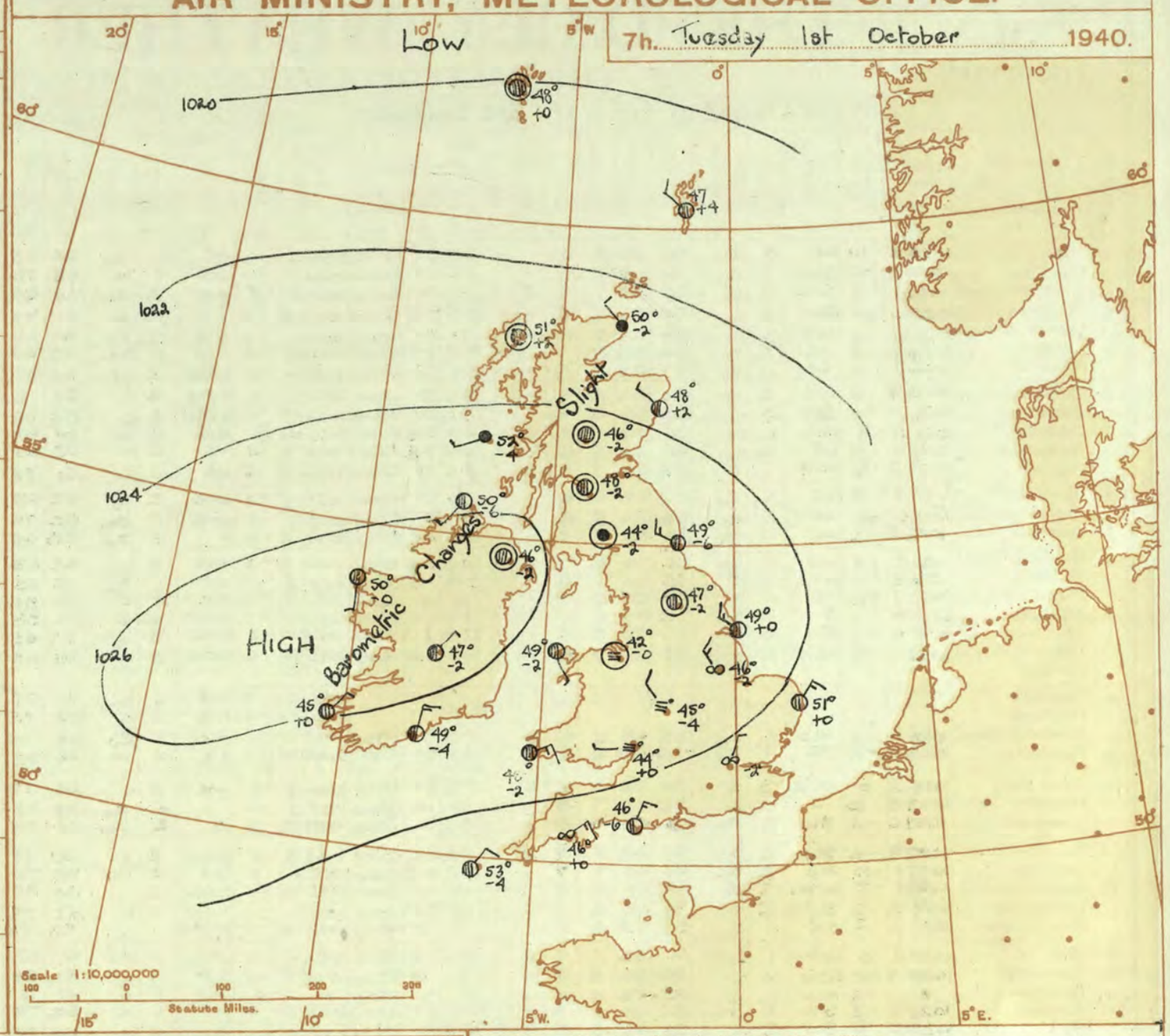
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 1st October 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 30th Sept.			18h. G.M.T.			01h. G.M.T. 1st Oct.			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
109 5-	03867	24427	52	22855	21327	5-	03748	22558	57	02844	26155
115 52	02834	20427	52	81834	21587	--	57109	20489	--	57109	20359
203											
206 57	02865	24327	57	02866	23228	5-	02868	26218			
210						5-	02868	20328	5-	51967	20357
220 51	02543	24316	52	25845	23287					56419	23259
230 5-	02756	20126									
245 10	00851	24201	50	00862	18202	5-	05667	24127	5-	02966	24226
260 5-	05868	20218	5-	05855	22115				53	05666	22227
277 5-	02868	23328	5-	02867	22127	5-	02768	19228	5-	21657	00057
279 --	02768	20328	--	02758	20328	--	05658	24328	--	05656	24326
285 2-	02846	24326	5-	03548	26228				5-	03738	32328
288 5-	05648	24128	50	17654	00024	5-	17457	20127	5-	02858	18128
273 53	02764	18117									
301			50	17450	32100	5-	08458	00028	5-	08458	00028
321 23	02864	01226	5-	02667	02227				5-	05668	28128
299 80	01864	32314	50	01854	32314	5-	05647	28127	5-	05648	23228
292 5-	05667	32127	50	05662	30122	5-	05558	00018	5-	05667	00027
310			--	02528	32328				--	03528	32328
316 7-	02755	02217	56	08462	04113	5-	41467	02127	5-	47376	00046
333 5-	02767	12327	5-	02865	02225	00	00790	00000	5-	02757	26127
334 --	02766	32228	--	02776	32126						
340 53	05663	32214	50	05663	30213	5-	41458	32248	5-	45358	32248
136 80	01854	05314	73	01864	05315	5-	61767	00087	83	02863	00067
336			--	02853	08416					05643	04327
350 80	42855	82316	50	01875	02315		00790	02282	70	05663	07203
368 80	08665	06315							84	05652	04212
379 8-	02754	04315	63	01790	04314	40	05662	06302	10	45162	02242
390						00	05690	02200	50	05663	02113
382 8-	02866	03126	50	05665	00025	80	05661	02201			
438 80	01854	04414							80	02855	04425
430 8-	02775	04325				50	05653	04203	50	05666	04216
409 2-	02855	06225	5-	01864	06124	5-	05655	06315	5-	01775	04115

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 1st October, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light or moderate northeast wind. Mainly fair but cloudy periods particularly during the day. Local morning fog. Cool ground frost at night.
7 North Wales ... 8 N.W. England	Light variable or northwest wind. Fair. Local morning fog. Cool ground frost at night.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light west to northwest wind. Fair at first. Cloudy with slight rain locally later. Local morning fog. Cool.
13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light west to northwest wind backing southwest later. Cloudy. Slight local rain. Bright intervals later. Average temperature.
17 N. W. Ireland	Light variable or south wind. Fair. Local morning fog. Average temperature.
18 N. E. Ireland	As 9 - 12.
19 S. E. Ireland 20 S. W. Ireland	As 17.

GENERAL INFERENCE.

An anticyclone centred over West Ireland with a ridge to Denmark is decreasing slowly in intensity and a feeble cold front is moving slowly southeast over Scotland. Quiet conditions will continue with local rain or drizzle in the North but mainly fair conditions elsewhere apart from local morning fog.

FURTHER OUTLOOK.

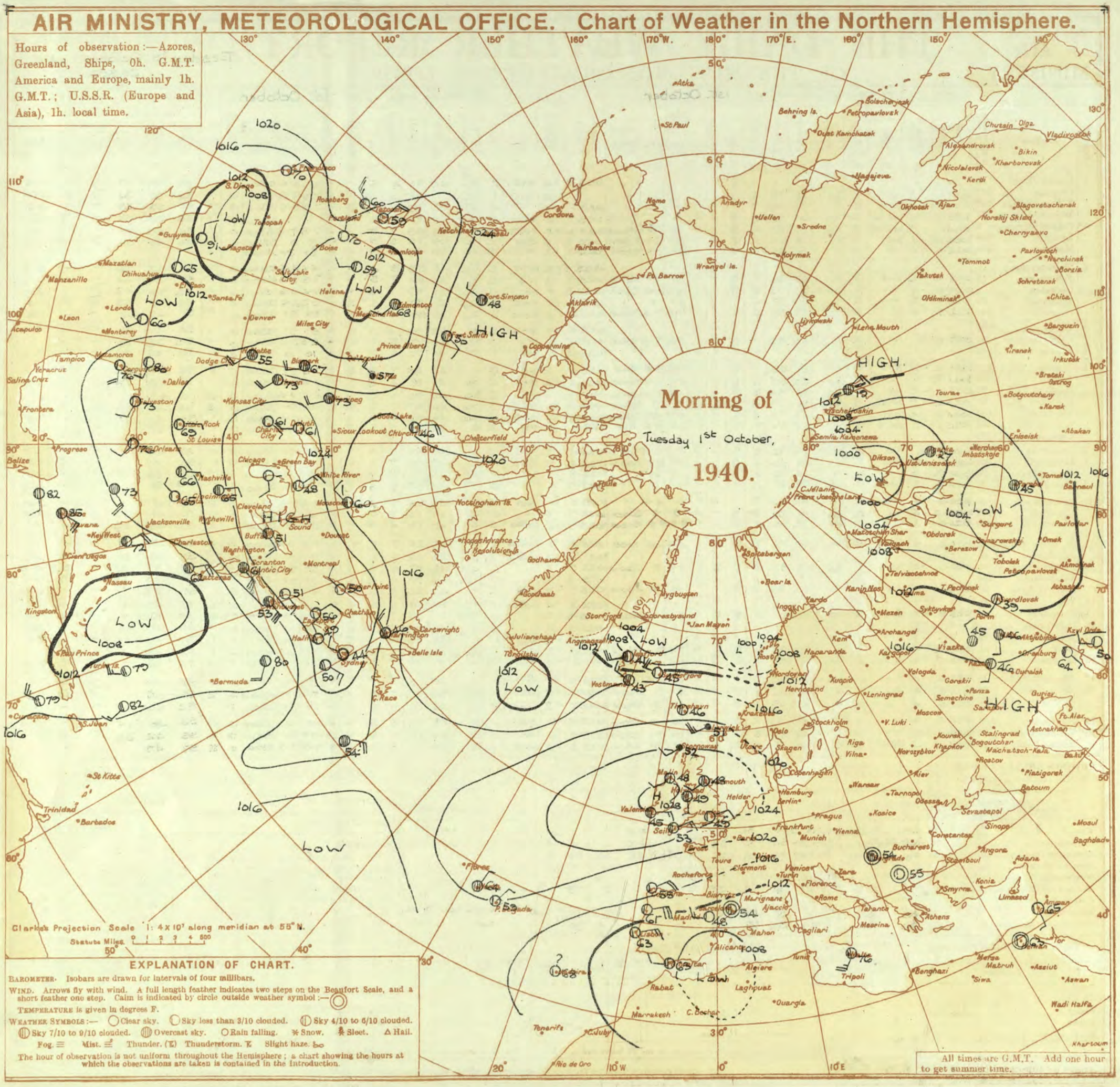
Quiet conditions continuing. No indication of widespread fog. Drought continuing except in extreme north.

Forecasts issued at 10.30. G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 1st October 1940.

No. 28,803

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)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1024·4	+2	NE	2	zo	49	75	5	-	-	-	0	0	-
	S. Farnborough	226	1025·1	-2	NNE	2	b	46	85	7	-	-	-	0	0	-
	Boscombe Down	417	1025·1	-2	NE'N	2	zo	41	92	6	5	-	-	1	1	3000
	Calshot (Sthmtn.)	8	1024·1	-2	NE'N	3	zo	50	85	6	5	-	-	Tr	Tr	4000
	Lympne	346	1023·8	-4	NE	1	c	46	85	7	5	-	-	9+	9+	2500
	Manston	154	1024·6	-6	NE	3	c	51	92	7	8	-	-	9+	9+	2000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1025·2	-2	NNE	3	c	47	85	7	5	-	-	9+	9+	4700
	Gorleston	5	1025·2	-4	E'N	3	bc	52	75	6	5	-	-	4-6	4-6	2500
	Mildenhall	19	1025·5	-2	NNE	2	fg	39	97	6	-	-	-	0	0	-
	Cranwell	240	1026·7	-6	N	2	zo	47	92	6	5	-	-	7-8	7-8	3000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1025·8	-4	NE	2	c	45	85	7	5	-	-	7-8	7-8	1900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024·8	-2	ENE	3	c	51	85	7	5	-	-	7-8	7-8	1500
	Bristol	209	1026·2	0	-	0	zo	45	85	5	5	-	-	4-6	4-6	5000
	Portland Bill	32	1023·6	-2	NE	3	bc	50	85	8	5	-	-	4-6	4-6	4000
	Plymouth	82	1024·6	-2	NNE	4	zo	51	75	6	5	-	-	9	9	2500
	The Lizard	240	1024·6	-4	N'E	4	bc	47	75	8	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	1025·1	-2	NE'E	3	bc	53	65	7	5	-	-	4-6	4-6	1500
	Guernsey	175														
6	Pembroke	142	1026·5	0	NE	3	bc	47	92	8	5	-	-	2-3	2-3	2500
7	Holyhead	26	1026·6	-2	S'E	1	c	49	85	6	5	-	-	9+	9+	3000
	Chester (Sealand)	16	1027·2	-2	-	0	m	36	97	4	-	-	-	0	0	-
8	Manchester	70	1026·8	-2	NNE	1	bf-	35	97	3	-	-	-	0	0	-
10	Spurn Head	29	1026·9	0	N'W	2	bc	48	85	7	-	4	-	0	4-6	-
	Catterick	175	1027·2	-6	-	0	zo	41	92	5	5	-	-	9	9	3000
	Tynemouth	108	1026·6	-6	SW	2	bc	48	85	6	2	-	-	4-6	4-6	3000
11	St. Abbs Head	280	1025·6	-6	WNW	2	bc	50	75	7	5	4	-	4-6	4-6	2000
	Leuchars	36														
12	Renfrew (Abbots I.)	19	1026·6	-4	W'S	1	zo	48	92	5	5	3	-	4-6	9	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1027·4	-2	W	1	c	50	85	8	5	-	-	10	10	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1024·2	-2	SW	2	dd	52	97	6	5	2	-	9	10	1000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1020·2	-4	SW	1	c	51	85	8	5	7	8	7-8	9+	1500
16	Lerwick	156	1020·3	-8	SW'W	5	roro	51	97	6	6	2	-	4-6	10	800
17	Blacksod Point	18	1027·6	-8	-	0	bc	51	92	8	-	4	-	4	4-6	-
18	Malin Head	84	1026·8	-8	SW	1	c	48	92	7	9	-	-	9	9	2500
	Aldergrove	268	1027·6	-4	-	0	c	47	85	7	5	-	-	10	10	2500
19	Birr Castle	173	1028·2	-2	N	1	c	47	85	8	5	-	-	10	10	1500
20	Valentia Obsy.	30	1028·1	0	E'N	3	c	45	85	8	5	-	-	9+	9+	2500
	Roches Point	22	1027·4	-4	ENE	3	c	50	75	8	5	-	-	9+	9+	2500

OBSERVATIONS at 7 hr. G.M.T. 1st 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)	1023·4	+4	NNE	2	zo	43	85	6	5	-	-	4-6	4-6	2500	1	*
Croydon		-2	NNE	1	zo		97	6	5	-	-	7-8	7-8	3000	0	*
S. Farnborough	1023·7	0	-	0	c/f	35	97	6	7	4	-	7-8	7-8	3500	0	*
Boscombe Down	1023·7	-4	NNW	2	zo	39	97	6	5	-	-	1	1	3000	0	*
Calshot (Sthmtn.)	1023·0	+2	NE'N	4	c	44	85	7	5	-	-	7-8	7-8	5700	0	2
Lympne	1022·2	-2	ENE	2	c	49	75	8	7	-	-	9	9	3500	0	§3
Manston	1023·4	-2	NE	3	c	50	85	8	5	-	-	9+	9+	4000		*
Shoeburyness	1023·1	+2	NNE	2	bc	45	85	8	4	-	-	4-6	4-6	2500	0	*
Felixstowe	1023·5	-2	N'E	3	c	45	85	7	5	-	-	7-8	7-8	4000	0	1
Gorleston	1023·8	0	NE	3	bc	51	65	7	8	-	-	4-6	4-6	1500	0	2
Mildenhall	1024·1	-2	NNE	1	zo	31	97	5	5	3	-	2-3	4-6	3500	0	*
Cranwell	1025·6	-2	NNW	3	zo	46	85	6	5	-	-	9+	9+	2500	0	*
Birmingham	1025·6	-4	NNW	2	m	45	92	4	3	5	-	9+	9+	2500	0	*
Upper Heyford	1025·0	0	N'E	3	bcjf	39	97	5	5	4	-	2-3	2-3	2500	0	*
Ross-on-Wye	1025·0	0	W	1	m	44	92	4	5	-	-	10	10	1500	0	*
Hartland Point	1023·6	-2	NE	3	c	49	85	7	5	2	-	7-8	9+	1500	0	2
Bristol	1025·6	+2	NNE	2	m	41	97	4	5	-	-	4-6	4-6	1000	0	*
Portland Bill	1022·5	-6	NE	3	bc	46	92	8	5	-	-	4-6	4-6	4000	0	3
Plymouth	1023·4	0	NE'E	3	zo	46	85	7	5	4	-	Tr	Tr	2000	0	2
The Lizard	1023·5	0	NNE	2	bc	46	92	8	4	-	-	4-6	4-6	2000	0	1
Scilly (St. Mary's)	1023·4	-4	NE	2	c	53	65	7	5	7	-	7-8	9+	1500	0	1
Guernsey																
Pembroke	1024·4	-2	NE'E	3	c	48	85	6	5	-	-	9+	9+	3500	0	1
Holyhead	1025·4	-2	SSE	1	c	49	85	7	5	-	-	10	10	3000	0	1
Chester (Sealand)	1025·8	0	-	0	of	42	97	3	5	-	-	10	10	2800	1	*
Manchester	1025·9	0	-	0	of	39	97	3	5	-	-	10	10	3000	1	*
Spurn Head	1025·0	0	NW	3	c	49	75	7	4	5	-	7-8	7-8	4000	0	2
Catterick	1025·7	-2	-	0	c	47	85	7	5	-	-	10	10	3100	0	*
Tynemouth	1025·3	-6	WNW	3	c	49	75	6	5	-	-	9+	9+	3200	1	2
St. Abbs Head	1024·4	0	WNW	3	c	49	85	7	8	7	-	7-8	9+	2000	0	2
Leuchars	1024·5	0	WSW	2	c	48	92	8	5	-	-	9	9	4000	0	*
Renfrew (Abbots I.)	1025·5	-2	-	6	c/d	48	97	5	5	7	-	9+	9+	2400	1	*
Eskdalemuir	1025·2	-2	-	0	ido	44	97	6	5	-	-	9+	9+	1500	1	
Point of Ayre	1025·7	-2	W'S	2	c	49	85	8	5	2	-	4-6	10	4000	0	1
Tiree	1024·4	-4	WSW	1	ido	52	97	6	5	-	-	10	10	500	0	2
Stornoway	1023·8	+2	-	0	c/d	51	97	7	5	7	-	7-8	9+	1500	1	0
Dalwhinnie	1024·3	-2	-	0	c	46	92	7	3	-	-	10	10	800	0	*
Aberdeen	1023·9	+2	NW	1	c	48	85	6	-	7	-	0	9+	-	1	1
Wick	1022·4	-2	NW	1	dodo	50	97	6	5	7	-	7-8	10	1500	1	1
Lerwick	1021·3	+4	NW	2	c	47	85	7	5	7	-	4-6	7-8	800	1	*
Blacksod Point	1026·5	0	S	1	c	50	97	7	-	7	-	0	10	-	0	1
Malin Head	1025·6	-6	SW	1	c	50	92	7	8	-	-	9	9	2500	0	2
Aldergrove	1026·7	-2	-	0	c	46	92	8	5	-	-	9+	9+	2500	1	*
Birr Castle	1027·3	-2	NE	1	c	47	75	8	5	-	-	10	10	2500	0	*
Valentia Obsy.	1027·2	0	NE	1	c	45	85	9	5	-	-	9+	9+	4000	0	1
Roches Point	1025·8	-4	NNE	3	c	49	75	8	5	-	-	7-8	7-8	2500	0	2

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 30th Hrs. (36)
London (Kew)	56	42	27	-	-	0·4
Croydon	54	37	34	Tr	-	0·2
S. Farnborough	57	33	25	-	-	0·7
Boscombe Down	56	37	31	-	3	Tr
Calshot (Sthmtn.)	60	43	40	-	-	2·1
Lympne	56	40	34	Tr	10	6·7
Manston						
Shoeburyness	58	43	36	-	-	4·0
Felixstowe	57	44	44	-	-	2·9
Gorleston	58	50	43	Tr	-	2·9
Mildenhall	59	30	23	Tr	Tr	1·4
Cranwell	57	45	43	-	-	1·8
Birmingham	56	43	32	*	-	2·0
Upper Heyford	58	38	25	-	-	*
Ross-on-Wye	58	43	33	-	-	6·1
Hartland Point	58	48	46	-	-	7·7
Bristol	57	39	29	-	-	5·3
Portland Bill	58	45	*	-	-	*
Plymouth	58	46	42	-	-	7·7
The Lizard	59	44	*	-	-	9·8
Scilly (St. Mary's)	58	52	*	-	-	4·9
Guernsey						
Pembroke	57	44	*	-	-	2·7
Holyhead	55	47		-	-	1·4
Chester (Sealand)	54	35	31	-	-	1·3
Manchester	53	31		-	-	0·2
Spurn Head	56	47	*	-	-	0·0
Catterick	53	41	33	-	-	0·0
Tynemouth	53	48	43	-	-	*
St. Abbs Head	55	46	*	-	-	*
Leuchars	57	44	38	-	-	8·6
Renfrew (Abbots I.)	52	47	45	-	0·2	0·3
Eskdalemuir	51	43	43	-	Tr	0·7
Point of Ayre	55	48	*	-	-	0·0
Tiree	56	49	*	-	0·6	2·7
Stornoway	55	51	*	Tr	2	0·0
Dalwhinnie	53	45	42	-	-	0·7
Aberdeen	57	47	45	-	-	7·1
Wick	54	48	*		Tr	*
Lerwick	52	46	*	Tr	1	0·0
Blacksod Point	54	49	*	-	Tr	*
Malin Head	55	47	*	Tr	Tr	0·5
Aldergrove	52	45	44	-	-	0·4
Birr Castle	53	46	44	-	-	0·4
Valentia Obsy.	55	42	38	Tr	Tr	0·3
Roches Point	57	49	*	-	-	*

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	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.
		24 hrs. ended 9h.											
Kew	18	cmo	czosbcy	bcycbcwm	56	42	27	-	-	0·4	*	*	6
Croydon	217	bcfcfzo	bczo	bmocm	54	37	34	Tr	-	0·2	*	*	4
Greenwich (Royal Observatory)	149	cy	cbcy	bcbwx	55	41	27	-	Tr	0·2	55	60	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*									*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	57	41	37	-	-		71	79	*
Camden Square	110			*						*	*		*
Kensington	80	bc	bc *	*	57	44	37	-	-		61	61	*
Hampstead Observatory	450	bc	bc	omc	55	41	36	-			*	79	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 1st.

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·1	14·20h 30th	<0·1	0-5h 1st.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome														

‡ 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. 5 Very rough.
- 1 Smooth. 6 High.
- 2 Slight. 7 Very high.
- 3 Moderate. 8 Precipitous.
- 4 Rough. 9 Confused.

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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.

BRITISH SECTION

Wednesday 2nd. October, 1940.

No. 28304

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)...	1022.0	-12	NE	3	c	55	45	7	8	-	9	7-8	9	4000
	Croydon ...	1022.0	-10	NE	3	c	54	55	7	2	6	-	4-6	7-8	3000
	S. Farnborough	1022.1	-12	NE'E	3	c	55	55	7	8	3	-	4-6	9+	4000
	Boscombe Down	1022.1	-14	NE	3	c	55	55	7	7	-	-	4-6	7-8	3000
	Calshot (Soton.)	1021.4	-16	ENE	4	zo	57	55	7	8	-	-	7-8	7-8	4000
	Lympne ...	1021.4	-10	ENE	4	c	52	85	8	7	-	-	9+	9+	3000
	Manston ...	1022.5	-10	NE	4	c	53	65	8	5	3	-	7-8	9+	3000
2	Shoeburyness ...	1022.0	-12	NE	4	c	55	55	8	8	-	-	7-8	7-8	4000
	Felixstowe ...	1022.5	-8	ENE	4	bc	55	45	8	5	-	-	4-6	4-6	4000
	Gorleston ...	1023.3	-8	ENE	4	bcl	54	65	7	1	-	-	2-3	2-3	3000
	Mildenhall ...	1022.8	-10	NNE	3	c	55	65	8	8	-	-	9	9	4500
	Cranwell ...	1024.5	-10	N'E	2	zo	53	55	6	5	-	-	10	10	4000
3	Birmingham	1024.0	-8	N	2	zo	51	65	5	5	-	-	10	10	2500
	Upper Heyford	1024.3	-6	NNE	4	c	53	65	7	7	7	-	7-8	9	4000
4	Ross-on-Wye ...	1023.4	-12	NE'N	3	zo	53	55	5	5	-	-	9+	9+	2500
5	Hartland Point	1023.2	-6	NE	3	c	54	65	8	7	-	-	7-8	7-8	2500
	Bristol ...	1023.6	-10	NE'N	3	zo	52	75	6	5	-	-	9+	9+	3500
	Portland Bill ...	1021.7	-10	ENE	4	c	56	75	8	2	4	-	4-6	9	4000
	Plymouth ...	1022.3	-12	ENE	3	bc	56	45	8	1	-	-	4-6	4-6	3500
	The Lizard ...	1022.7	-4	NE	4	bc	57	55	8	2	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1023.5	-4	NE	4	c	55	65	7	5	-	-	9+	9+	1500
	Guernsey ...														
6	Pembroke ...	1024.6	-6	-	0	c	54	75	7	8	2	-	7-8	9+	2000
7	Holyhead ...	1024.8	-6	N'E	3	c	54	75	7	5	-	-	10	10	3500
	Chester (Sealand)	1025.0	-6	N'E	1	m/f	52	65	4	5	-	-	10	10	3600
8	Manchester ...	1024.7	-10	NW'W	1	zo	51	65	6	5	-	-	10	10	2900
10	Spurn Head ...	1023.8	-8	N	3	c	54	65	7	5	-	-	10	10	4000
	Catterick ...	1024.5	-6	-	0	c	53	65	7	5	-	-	10	10	3300
	Tynemouth ...	1024.9	-2	WNW	2	c	61	85	6	5	-	-	9+	9+	3600
11	St. Abbs Head	1024.4	-2	WNW	2	c	53	85	8	5	7	-	4-6	7-8	2500
	Leuchars ...	1024.0	+2	ESE	1	c	59	65	8	7	4	-	4-6	7-8	4000
12	Renfrew (Abbots I.)	1024.6	-6	NW'W	3	c	57	75	9	8	-	-	9+	9+	2500
	Eskdalemuir ...	1024.4	-4	-	0	c	49	85	8	5	-	-	10	10	1500
	Point of Ayre ...	1025.3	-4	N'W	3	c	53	92	8	5	2	-	9	10	1500
13A	Tiree ...	1024.3	0	NW	2	c	55	92	8	5	3	-	7-8	7-8	1500
13B	Stornoway ...	1023.9	+2	N	4	c	54	75	8	5	7	-	9	10	4000
15	Dalwhinnie ...	1023.7	-2	SW	1	c	55	75	8	8	4	-	9	9+	1500
	Aberdeen ...	1023.6	-6	SSE	1	cjp	57	75	7	8	-	3	9	9	2500
	Wick ...	1022.9	+2	NE	1	c	52	97	7	5	7	-	7-8	9+	800
16	Lerwick...	1022.2	+2	WNW	2	c	51	75	7	5	7	-	4-6	9+	1500
17	Blacksod Point..	1026.5	-4	SW	2	c	53	97	7	5	-	-	10	10	1500
18	Malin Head ...	1025.4	-6	W'S	2	cjp	55	85	7	3	-	-	7-8	7-8	1600
	Aldergrove ...	1025.8	-6	W'N	1	c	56	65	8	5	7	-	9	9+	2500
19	Birr Castle ...	1026.7	-4	N'E	1	c	51	75	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1026.5	-2	-	0	c	52	65	8	5	-	-	10	10	4000
	Roches Point ...	1025.5	-4	S	1	bc	56	65	8	1	-	5	2-3	4-6	4000

OBSERVATIONS at 18h. G.M.T. 1st. 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)	1021.2	+2	NE'E	3	zo	53	55	6	5	-	-	7-8	7-8	2500	0	*
Croydon	1021.2	+2	ENE	3	zo	51	55	6	5	-	-	7-8	7-8	4000	0	*
S. Farnborough	1021.2	+6	N'E	3	zo	53	65	6	4	-	-	9	9	4600	0	*
Boscombe Down	1021.5	+2	N'E	3	c	48	75	6	4	-	-	7-8	7-8	4500	0	*
Calshot (Soton.)	1020.6	0	NNE	3	zo	54	65	6	5	-	-	10	10	5000	0	2
Lympne	1020.3	-2	ENE	1	bc	48	75	8	4	-	-	4-6	10	4000	0	§3
Manston	1021.2	-2	NE	4	c	52	65	8	5	-	7	7-8	7-8	2500		*
Shoeburyness	1021.3	+10	NE'N	3	c	51	65	8	4	-	-	7-8	7-8	4000	0	*
Felixstowe	1021.6	+2	NE	3	c	52	55	8	5	-	-	7-8	7-8	3500	0	2
Gorleston	1022.3	0	NE'E	4	c	53	65	7	8	-	-	9	9	2500	0	2
Mildenhall	1022.1	+4	ENE	2	bc	50	75	8	4	4	-	2-3	2-3	5000	0	*
Cranwell	1023.3	-2	NE	1	zo	49	75	6	5	-	1	4-6	4-6	3500	0	*
Birmingham	1022.7	-8	N	2	m	49	65	4	5	-	-	9+	9+	4000	0	*
Upper Heyford																*
Ross-on-Wye	1022.6	-6	N'E	2	zo	49	75	5	5	-	-	9+	9+	2500	0	*
Hartland Point	1021.6	-4	NE	3	c	53	65	7	5	2	-	7-8	10	1500	0	2
Bristol	1022.5	+4	N	2	m	49	75	4	-	3	-	0	7-8	-	0	*
Portland Bill	1020.5	+4	N	4	c	53	85	8	5	-	-	10	10	2500	0	3
Plymouth	1021.4	+2	NNE	3	bc	54	65	6	4	6	1	2-3	4-6	4000	0	1
The Lizard	1021.8	+4	N	3	c	53	65	8	8	6	-	7-8	7-8	2500	0	2
Scilly (St. Mary's)	1022.5	-4	NNE	4	c	54	55	7	5	-	-	9+	9+	1500	0	2
Guernsey																
Pembroke	1023.3	-6	NNE	3	c	52	75	7	8	2	-	7-8	9+	2500	0	1
Holyhead	1023.5	-10	N	4	c	53	85	7	5	-	-	10	10	2200	0	2
Chester (Sealand)	1023.5	-10	NNW	1	zo	50	85	5	5	-	-	10	10	3500	0	*
Manchester	1023.2	-8	NW	2	zo	49	85	5	5	-	-	10	10	3100	0	*
Spurn Head	1022.8	+2	NE'E	3	c	51	75	8	5	-	-	9+	9+	4000	0	2
Catterick	1023.3	+2	-	0	zo	51	75	6	5	-	-	10	10	3500	0	
Tynemouth	1024.1	-2	NNE	3	zo	52	85	6	8	-	-	9+	9+	3400	1	1
St. Abbs Head	1023.4	-2	ESE	1	c	52	85	8	4	4	-	4-6	7-8	2500	0	1
Leuchars	1023.1	-2	SSW	2	c	55	85	7	5	-	-	9	9	4000	0	*
Renfrew (Abbots I.)	1023.7	-2	NW'W	2	c	54	85	8	5	-	-	9+	9+	3000	1	*
Eskdalemuir	1023.5	-2	-	0	c	49	92	6	5	-	-	9+	9+	1500	1	*
Point of Ayre	1023.8	-10	N'W	3	c	53	92	8	5	7	-	4-6	10	1500	0	2
Tiree	1023.7	0	-	0	bc	51	92	8	5	5	-	2-3	2-3	2500	0	2
Stornoway	1024.2	0	-	0	c	51	75	8	5	6	6	7-8	9	3600	1	0
Dalwhinnie	1023.5	0	W	1	c	51	85	7	4	-	-	7-8	7-8	1500	0	*
Aberdeen	1022.8	-2	SW	1	c	54	85		5	-	-	9+	9+	2500	1	1
Wick	1023.1	+2	NNW	2	c	50	85	8	5	7	1	4-6	7-8	2500	1	1
Lerwick	1022.6	+4	W	3	c	47	85	8	5	3	-	4-6	7-8	1500	0	*
Blacksod Point	1025.3	-8	SSW	2	dd	53	97	7	6	-	-	10	10	<150	1	2
Malin Head	1024.1	-4	W	3	S/pr	54	97	6	6	-	-	9+	9+	800	0	1
Aldergrove																*
Birr Castle	1025.3	-4	NE	1	c	51	85	8	5	1	-	7-8	10	2500	0	*
Valentia Obsy. †																
Roches Point	1024.0	-8	N	3	bc	54	75	8	5	4	-	4-6	4-6	2500	0	1

PAST 24 HOURS.

Stations	Weather 7h.—13h. 1st. (37)	Weather 13h.—18h. 1st. (38)	Weather 18h. 1st. to 1h. 2nd (39)	Weather 1h.—7h. 2nd. (40)
London (Kew)	bczocy	cyczoy	bcbzomow	bcmowcmo
Croydon	cmbzoc	cybczoy	bcmo	cbcmo
S. Farnborough	cmobcy	cbcyezo	bcb, c	*
Boscombe Down	bmobc	bcc		bcmo
Calshot (Soton.)	bcbcmo	bcycy	cmobcmo	*
Lympne	cbcc	cbcy	bc (symbol) bc	bc
Manston	c	c	cbc	bc
Shoeburyness	ioy	cybcc	cbcb	bbcc
Felixstowe	c	bcycy	cyb, c	cbcq
Gorleston	bcbc	c	c	cbcq
Mildenhall	c	cybcy	bcmow	cmowbmoc
Cranwell	cmzoy	czoy	czocmo	*
Birmingham	cmz	cz		cbcm
Upper Heyford	bccmcpr		cbcmo	bbccmo
Ross-on-Wye	omzczo	cjzbczbz	czom	cm
Hartland Point	c	c	c	c
Bristol	bcmomoc	cjzobcm	cbcm	bcmbcfw
Portland Bill	bcc	c	cbc	bc
Plymouth	bbcy	bcybc	bczo	bczoczo
The Lizard	bcy	bcc	c	bccbc
Scilly (St. Mary's)	c	cbccy	c	c
Guernsey				
Pembroke	cmo	cmo		*
Holyhead	cjfmoc	c	crorомoc	crorомoc
Chester (Sealand)	off	omczo	cmomo	cmoffo
Manchester	cffmzoc	czomo	cm	cm
Spurn Head	c	c	c	csc
Catterick	ccmoc	ccmo	cbc	cm
Tynemouth	c	c	cbc	bcoc
St. Abbs Head	c	bcc	bcco	
Leuchars	cbcc	c	bcbcmo	bccmocw
Renfrew (Abbots I.)	cmoc	c	bcmo	*
Eskdalemuir	cidc	ccmo	cmoof	ofcw
Point of Ayre	cddc	c	c	bbc
Tiree	cidrc	bc	bbc	bc
Stornoway	crr	c	*	bc
Dalwhinnie	oc	c		bcc
Aberdeen	ccpf	proczo	czo	cmo
Wick	c	c		
Lerwick	c	c	cbc	bccw
Blacksod Point	c	dd	c	*
Malin Head	cjpidoc	gpiroc	c	cidoc
Aldergrove	c		cidoc	cmwc
Birr Castle	c	c	c	c
Valentia Obsy. †	ccc		o	oc
Roches Point	bc	bc	bcc	bcbbcc

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.*

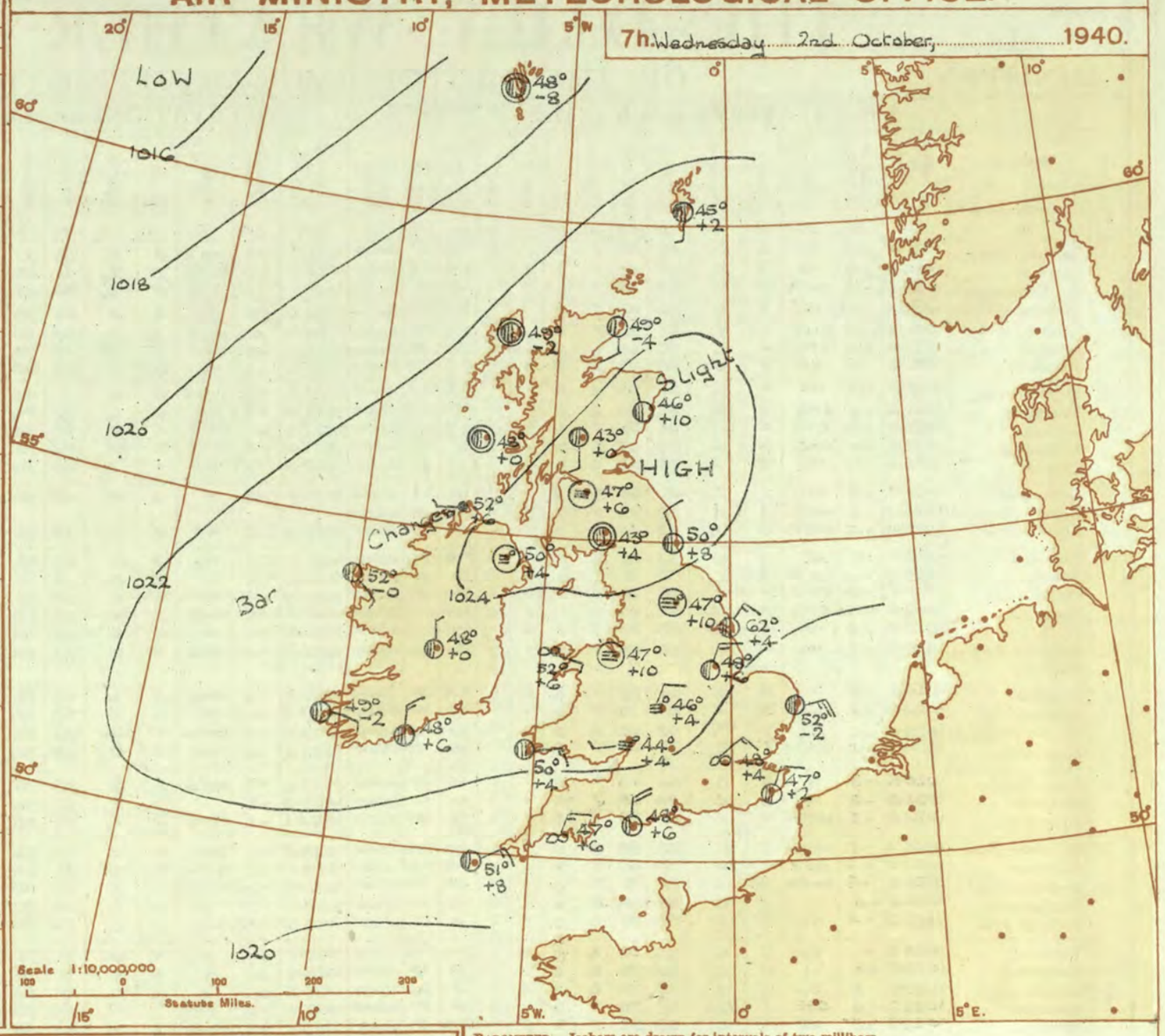
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 2nd October 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 1st Oct.			18h. G.M.T.			01h. G.M.T. 2nd Oct.			07h. G.M.T.		
III	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN
109	76	02855	27257	58	10959	30113	00	00880	22110	50	08664	14115
115	52	02734	32267	51	01854	28225	51	01861	12114	51	01861	20214
203				56	02845	08326						
206	83	02965	23285	5-	61747	00067	5-	02845	00025	57	02847	00028
210				5-	22557	06227	50	01853	00023	5-	02867	12127
220	27	01953	27204	50	01953	00003				52	02743	20128
230	53	02944	20215	5-	51826	22258	5-	02748	00028	5-	02947	00027
245	74	02965	14226	5-	02976	24226	52	05546	04128	53	02745	02127
260	-3	01764	26113	5-	02868	00028	5-	05678	00028	5-	05577	00027
277	5-	10946	30357	5-	02968	27258	5-	02767	28127	5-	02767	06127
279	--	02766	22126	--	05658	20128				--	05655	20125
285	8-	03848	32426	8-	03748	30328				5-	03748	06328
288	5-	05658	16128	5-	05558	25128	5-	08458	23948	5-	05558	12128
273	51	05663	17115							51	01763	00005
301	5-	05658	28228				5-	05658	06128	5-	05568	08128
321	5-	01765	32125	03	05690	32214	5-	05565	32225	5-	05667	32127
299	50	05664	24214	5-	05647	08127	5-	05548	32228	5-	05648	07328
292	5-	05667	28127	5-	05668	00028	5-	05568	00028	5-	08468	30128
310	--	02636	26316	--	02528	32328				--	03528	32328
316	00	05590	02320	53	08474	32215	5-	02568	04248	5-	08467	32227
333	5-	02768	28128	8-	02768	00028	5-	54648	22158			
334												
340	5-	05668	32428	5-	05558	28128	5-	05368	00028	5-	41468	32148
136	8-	02866	04216	47	01854	04214	5-	02766	00016	5-	02865	05225
336	--	02743	04327	--	05642	04428					05533	04327
350	80	02756	32416	03	01790	01325	03	05690	02212	50	05667	02217
368	83	05854	07427	53	05563	02125				03	05590	30217
379	83	05654	04327				53	05553	04218	5-	05667	04217
390	40	02765	04325	50	01763	03313	5-	05657	02217	54	01754	01114
382	73	01864	02324				50	05661	01201	5-	04667	32287
438	50	01855	04515							51	01753	04514
430	5-	02766	04426	50	01774	04214	5-	05663	04313	00	00790	04303
409	7-	02766	04426	5-	01865	01425	5-	05698	04228	05	05690	04215

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd October 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light or moderate northeast wind; mainly fair but considerable cloud at times: local morning fog; cool; ground frost locally at night
7 North Wales ... 8 N.W. England	Light variable or southeast wind: fair; local morning fog; cool; ground frost locally at night.
9 N. Midlands ... 10 N.E. England	Light east or variable wind: mainly fair but considerable cloud at times; local morning fog; cool; ground frost locally at night.
11 S.E. Scotland	As 7-8
12 S.W. Scotland & Isle of Man.	As 9-10
13 A. W. Scotld. B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate south to southwest wind; fair at first; cloudy later with slight rain locally. Average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 7-8.

GENERAL INFERENCE.

An anticyclone centred off northeast Scotland is moving slowly northeast. Weather will be fair generally but there will be considerable cloud at times.

FURTHER OUTLOOK.

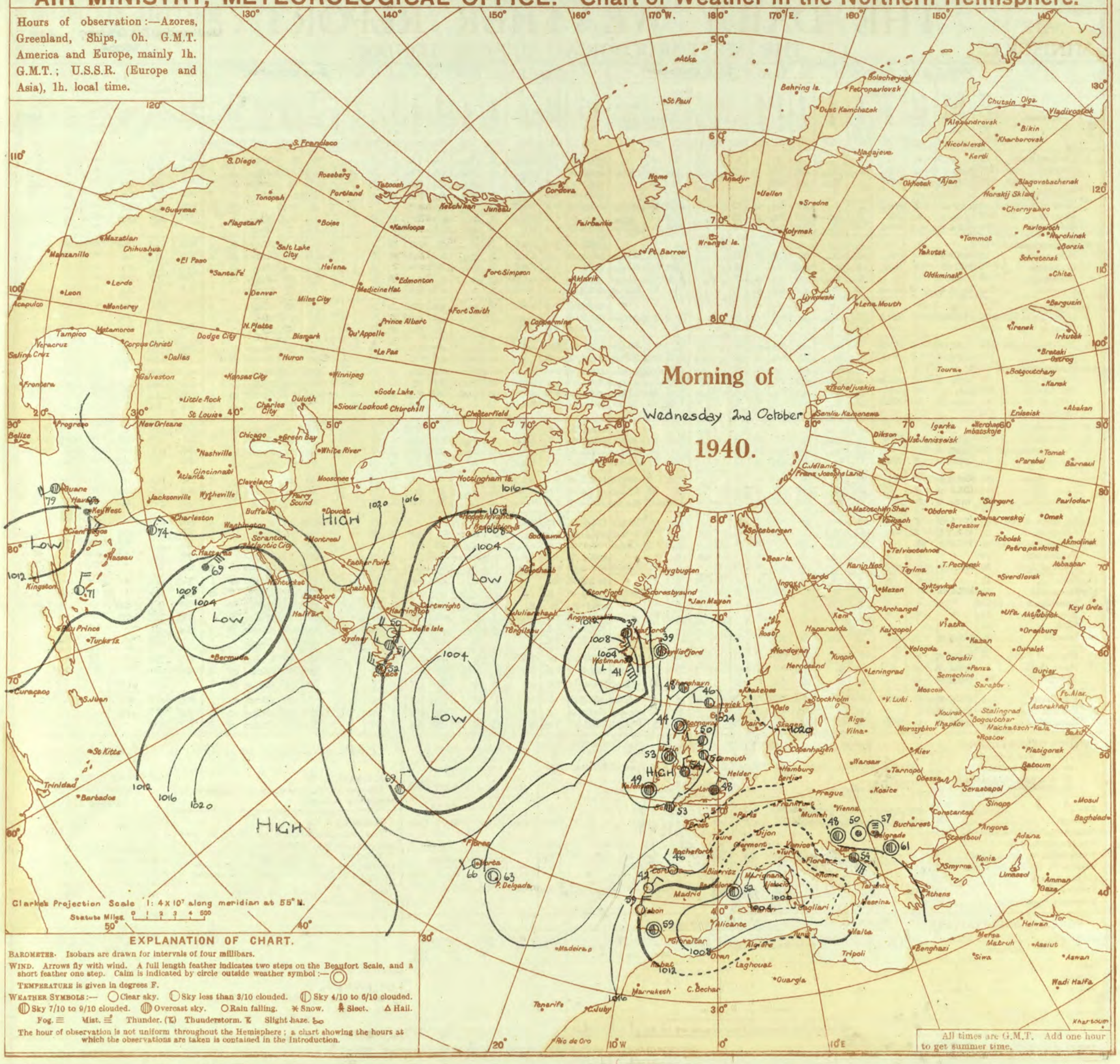
Little change.

Forecasts issued at 10·30h.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 2nd. October, 1940.

No. 28804

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	1021.1	-4	NE	2	zo	48	75	5	S	-	-	10	10	3000
	S. Farnborough	226	1021.3	-10	N'E	1	zo	44	85	5	-	3	-	0	9	-
	Boscombe Down	417														
	Calshot (Sthmtn.)	8	1021.0	-4	NNE	4	zo	47	85	6	S	-	-	2-3	2-3	4500
	Lympne	346	1019.8	-10	NE	2	bc	47	75	8	S	-	-	4-6	4-6	3500
	Manston	154	1020.9	-6	NNE	4	bc	52	65	7	S	-		4-6	4-6	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1021.5	-4	NE	4	bc	51	65	7	S	-	-	9+	9+	4300
	Gorleston	5	1021.9	-4	NE	4	c	53	75	7	8	-	-	7-8	7-8	2500
	Mildenhall	19	1022.1	-6	N	2	zo	40	97	6	S	-	-	7-8	7-8	3000
	Cranwell	240	1023.6	-4	NNW	2	zo	47	92	6	S	-	-	10	10	3500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1022.6	-4	NNE	2	zo	44	92	6	S	-	-	2-3	2-3	3500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022.0	-2	ENE	3	c	49	85	6	S	-	-	9	9	1500
	Bristol	209	1022.6	-4	NNE	1	m	45	85	4	S	-	-	2-3	2-3	5700
	Portland Bill	32	1020.6	+2	N	3	bc	48	92	8	S	-	-	4-6	4-6	4000
	Plymouth	82	1021.2	-6	NE'N	4	zo	49	75	5	S	-	-	2-3	2-3	4000
	The Lizard	240	1021.6	-8	N'E	3	c	49	85	6	8	2	-	7-8	9+	2500
	Scilly (St. Mary's)	163	1021.8	-10	ENE	2	c	53	65	6	S	2	-	7-8	10	1500
	Guernsey	175														
6	Pembroke	142														
7	Holyhead	26	1023.5	-2	E'N	3	ror o	50	97	6	6	2	-	7-8	10	1400
	Chester (Sealand)	16	1023.6	-2	-	0	m	48	92	4	S	-	-	10	10	2500
8	Manchester	70	1023.4	-2	NNE	1	m	47	85	4	S	-	-	10	10	4000
10	Spurn Head	29	1023.0	-2	N	3	c	51	65	6	S	-	-	7-8	7-8	4000
	Catterick	175	1024.4	+2	-	0	m	47	97	4	S	-	-	10	10	2300
	Tynemouth	108	1024.7	0	SE	2	bc	50	75	6	8	-	-	4-6	4-6	3400
11	St. Abbs Head	280	1013.0	-2	SW	4	o	50	75	7	S	-	-	10	10	2500
	Leuchars	36	1023.9	-2	W	2	zo	50	92	6	S	-	-	7-8	7-8	3200
12	Renfrew (Abbots I.)	19	1024.4	+2	-	0	zo	46	97	5	S	3	-	2-3	7-8	4500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1024.3	+2	N'E	2	c	54	85	7	S	2	-	1	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1024.5	0	-	0	b	44	92	7	S	-	-	1	1	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81														
16	Lerwick	156	1023.8	+2	W	2	bc	46	97	7	S	-	-	4-6	4-6	1500
17	Blacksod Point	18	1024.9	-6	S	1	c	52	97	7	S	-	-	10	10	<150
18	Malin Head	84	1024.2	-4	-	0	c	53	97	7	6	-	-	9	9	2500
	Aldergrove	268	[illegible]	-6	-	0	c	51	92	7	S	-	-	10	10	3800
19	Birr Castle	173	1024.8	-4	NE	1	c	48	92	8	S	-	-	10	10	2500
20	Valentia Obsy.	30	1024.9	-6	-	0	o	49	85	8	S	-	-	10	10	4000
	Roches Point	22	1024.3	-6	N'E	3	c	46	85	8	S	-	-	9	9	1500

OBSERVATIONS at 7 hr. 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)	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)
London (Kew)	1020.9	+6	NNE	2	zo	46	75	5	S	-	-	9	9	2500	0	*	56	45	33	-	-	5.1
Croydon	1020.4	+4	NE	3	zo	48	75	5	S	4	1	4-6	7-8	3500	0	*	56	47	41	-	-	6.1
S. Farnborough	1021.1	+8	N'E	2	zo	44	85	6	S	7	-	7-8	9	4000	3	*	57	42	34	-	-	5.9
Boscombe Down	1021.2	+4	N'E	3	zo	40	92	6	S	-	-	2-3	2-3	5000	1	*	56	36	32	-	-	7.7
Calshot (Sthmtn.)	1020.3	+4	NNE	3	zo	45	85	6	-	4	1	0	2-3	-	0	2	58	44	39	-	-	2.1
Lympne	1019.6	+2	NNE	2	c	47	85	8	8	-	6	4-6	7-8	3500	0	§	55	45	39	-	-	4.2
Manston	1020.3	+4	NE	4	bc	53	65	7	2	3	2	4-6	9	1800		*						
Shoeburyness	1020.4	+4	NNE	3	c	46	85	8	4	-	2	2-3	7-8	2500	0	*	58	44	36	Tr	-	4.9
Felixstowe	1020.5	0	ENE	5	bc	52	65	8	S	-	5	4-6	4-6	3000	0	2	57	49	46	-	-	6.3
Gorleston	1021.1	-2	ENE	5	bc	52	65	7	2	-	-	4-6	4-6	2700	0	3	55	51	49	-	-	9.0
Mildenhall	1021.4	+6	NE'N	2	c	43	92	7	S	-	-	9+	9+	3400	0	*	58	37	25	-		
Cranwell	1023.2	+6	NNE	3	c	48	85	7	S	-	-	10	10	2000	0	*	55	46	44	-	-	0.0
Birmingham	1022.1	+4	NNE	2	m	46	92	4	S	-	-	10	10	2500	0	*	51	44	40	-	-	0.0
Upper Heyford	1022.3	+6	NNW	2	zo	46	92	6	S	-	-	9	9	3000	0	*		42	25		-	*
Ross-on-Wye	1022.4	+4	W'S	1	m	44	92	4	S	-	-	10	10	2500	0	*	54	43	37	-	-	0.0
Hartland Point	1021.3	+10	NE	3	c	49	85	6	S	S	-	4-6	9	1500	0	2	56	48	46	-	-	2.6
Bristol	1022.2	+8	-	0	cf-	42	92	3	S	-	-	9+	9+	2600	0	*	54	38	26	-	-	2.6
Portland Bill	1020.0	+6	N	4	bc	48	85	8	S	-	-	2-3	2-3	4000	0	3	57	45	*	-	-	*
Plymouth	1021.0	+6	NNE	3	zo	47	75	6	S	3	-	2-3	7-8	3500	0	1	60	46	40	-	-	8.4
The Lizard	1021.0	+8	N	2	bc	45	92	6	8	6	-	4-6	4-6	2000	0	2	58	44	*	-	-	7.9
Scilly (St. Mary's)	1021.1	+8	NE'E	3	c	51	65	7	S	8	-	7-8	9+	1500	0	2	56	51	*	-	-	1.5
Guernsey																						
Pembroke	1022.5	+4	E'N	3	c	50	75	5	S	2	-	7-8	10	1800	0	1	55	48	*	-	-	0.2
Holyhead	1022.8	+6	ESE	1	zo	52	85	5	S	-	-	10	10	2500	1	H	54	49	48	-	0.6	0.0
Chester (Sealand)	1023.3	+10	-	0	of	47	92	3	S	-	-	10	10	4000	1	*	53	46	40	-	-	0.0
Manchester	1023.1	+6	ENE	1	m	49	75	4	S	-	-	9+	9+	3500	0	*	52	46	43	-	-	0.1
Spurn Head	1022.6	+4	NE'N	3	c		75	7	S	-	-	10	10		0	2	54	50	*	-	-	0.3
Catterick	1024.4	+10	-	0	m	47	92	4	S	-	-	10	10	2500	0	*	54	46	44	-	-	0.0
Tynemouth	1024.7	+8	NNW	2	c	50	75	6	8	-	-	7-8	7-8	3200	0	1	53	50	46	-	-	*
St. Abbs Head	1024.0	+10	NW	2	c	51	75	8	S	2	-	7-8	9+	3600	0	2	55	49	*	-	-	*
Leuchars	1024.2	+10	S	2	c	51	97	7	S	-	-	9+	9+	1200	0	*	61	47	45	-	-	3.0
Renfrew (Abbots I.)	1024.5	+6	-	0	f-	47	97	1	-	-	-	10	10	<150	1	*	58	43	38	-	Tr	0.3
Eskdalemuir	1024.7	+4	-	0	c	43	92	7	S	-	-	9+	9+	2500	1	*	50	41	37	0.1	-	0.0
Point of Ayre	1023.9	+2	E'N	3	bc	52	85	8	S	-	-	2-3	2-3	2500	0	2	54	51	*	Tr	-	0.0
Tiree	1023.2	0	-	0	c	48	97	6	S	-	-	9	9	2100	0	1	56	42	*	0.4	-	4.1
Stornoway	1023.4	-2	-	0	c	40	92	8	S	7	-	7-8	9+	2500	1	0	55	42	*	1	-	0.0
Dalwhinnie	1024.2	0	S	1	c	43	97	6	S	-	-	9+	9+	800	1	*	56	37	28	-	-	0.5
Aberdeen	1024.5	+10	NNW	1	c	46	97	6	8	-	-	9	9	2500	0	1	58	45	40	Tr	-	0.7
Wick	1023.7	-4	S	2	bc	49	85	8	S	-	6	2-3	4-6	4000	0	1	54	41	*	0.1	-	*
Lerwick	1023.7	+2	S	1	c	45	92	8	S	9	-	4-6	7-8	1500	1	*	53	44	*	-	-	1.8
Blacksod Point	1023.6	0	SE	1	c	52	92	9	S	-	-	6	10	5700	0	2	55	50	*	Tr	1	*
Malin Head	1023.7	+6	W	1	ido	52	97	7	S	-	-	9+	9+	2500	0	2	56	51	*	Tr	0.2	1.5
Aldergrove	1024.1	+4	-	0	m	50	97	4	S	-	-	9+	9+	2500	0	*		49	47		Tr	1.9
Birr Castle	1023.8	0	N	1	c	48	97	7	S	-	-	10	10	2500	0	*	52	47	46	-	-	0.0
Valentia Obsy.	1023.4	-2	E'S	1	c	49	85	8	S	-	-	9+	9+	4000	0	0	54	48	46		-	0.0
Roches Point	1023.1	+6	N	3	c	48	85	8	S	-	-	9+	9+	2500	0	2	59	46	*	-	-	*

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.	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	bczocy	cyczoy	bcbzjomb	56	45	33	-	-	5.1	*	*	6
Croydon	217	cmbzoc	cybczoy	bccmcbc	56	47	41	-	-	6.1	*	*	+
Greenwich (Royal Observatory)	149												
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	57	47	39		—	0.0	61	71	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*						7.6			*
Camden Square	110			*						*	*		*
Kensington	80	bc	bc	*	58	46	38	—	—		53	55	*
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.
0.2	7-9h 1st.	<0.1	0-6h 2nd.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ 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

Thursday 3rd. October 1940.

No. 28805.

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)...	1019.8	-18	NE	4	c	57	45	7	7	-	1	4-6	7-8	2500
	Croydon	1019.8	-10	NE	3	bc	57	45	7	5	-	4	4-6	4-6	4000
	S. Farnborough	1019.8	-12	ENE	3	bc	57	45	7	7	-	-	4-6	4-6	4000
	Boscombe Down	1019.7	-18	NE'E	4	bc	56	45	8	5	-	1	2-3	2-3	5000
	Calshot (Soton.)	1019.5	-10	ENE	4	z_o	57	55	7	2	-	2	7-8	7-8	1500
	Lympne ...	1019.2	-6	E	4	c	56	65	8	1	-	2	4-6	7-8	3000
	Manston ...	1019.9	-6	NE'N	4	bc	57	65	8	7	6	-	4-6	4-6	3000
2	Shoeburyness ...	1020.2	-4	NE	4	bc	58	55	8	2	-	1	2-3	2-3	4000
	Felixstowe ...	1020.5	-10	ENE	5	bc	57	55	8	1	-	2	4-6	4-6	3500
	Gorleston ...	1021.4	-6	NE'E	4	bc	56	65	7	2	3	-	4-6	4-6	2500
	Mildenhall ...	1021.1	-14	NE	4	c	56	65	8	5	-	-	9+	9+	4400
	Cranwell ...	1023.0	-12	NE	3	c	54	55	8	7	-	-	10	10	4000
3	Birmingham	1022.1	-12	NE	2	c	52	65	6	7	-	-	9+	9+	2500
	Upper Heyford	1021.5	-10	NNE	3	c	54	65	8	8	-	-	9+	9+	2500
4	Ross-on-Wye ...	1021.3	-14	ENE	4	c	54	55	6	5	-	-	9+	9+	2500
5	Hartland Point	1020.4	-16	NE	4	bc	58	75	8	5	-	-	4-6	4-6	2500
	Bristol	1021.5	-14	ENE	3	c	56	45	7	5	-	-	7-8	7-8	4000
	Portland Bill ...	1018.9	-10	NE	4	c	55	85	8	5	4	-	4-6	7-8	4000
	Plymouth ...	1019.9	-18	ENE	4	bc	55	45	8	1	-	5	2-3	4-6	4000
	The Lizard ...	1020.4	-10	ENE	5	bc	56	55	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1020.9	-10	ENE	3	b	59	55	8	-	-	-	0	0	-
	Guernsey ...														
6	Pembroke ...	1021.4	-10	ENE	3	c	56	55	7	8	-	-	9+	9+	2500
7	Holyhead ...	1023.5	-14	E'N	2	c	55	65	6	5	-	-	9+	9+	3900
	Chester (Sealand)	1022.9	-14	E	1	z_o	54	65	5	5	-	-	9+	9+	3800
8	Manchester ...	1023.0	-10	NE'N	2	m	52	65	4	5	-	-	10	10	3500
10	Spurn Head ...	1022.7	-8	NE'N	3	o	54	65	7	5	-	-	10	10	4000
	Catterick ...	1023.7	-12	E'N	1	z_o	53	75	6	5	-	-	10	10	4000
	Tynemouth ...	1024.9	-4	ENE	2	c	55	75	6	5	-	-	9+	9+	4000
11	St. Abbs Head	1024.0	-8	SSW	1	c	59	65	8	5	3	-	4-6	9	3600
	Leuchars ...	1024.1	-6	ESE	2	c	57	75	8	8	3	-	4-6	7-8	3500
12	Renfrew (Abbots I.)	1024.1	-14	ESE	1	z_o	61	65	5	7	-	-	9	9	3000
	Eskdalemuir ...	1023.9	+4	S'W	2	c	53	55	8	5	-	-	10	10	4000
	Point of Ayre ...	1023.8	-8	SE'S	3	c	55	75	7	5	-	-	9+	9+	2500
13A	Tiree	1023.0	0	SSE	2	c	56	85	8	5	-	-	9	9	2100
13B	Stornoway ...	1022.9	-6	SSW	4	c/d	54	92	8	5	7	-	7-8	9+	1400
15	Dalwhinnie ...	1024.3	-2	SW	2	c	52	75	7	8	-	-	9+	9+	1500
	Aberdeen ...	1024.3	-8	SE	2	c	53	85	6	7	-	-	9	9	4000
	Wick		-2	S	3	c		85	8	5	6	-	7-8	9+	2500
16	Lerwick... ...	1023.9	-6	SW	3	bc	53	65	8	5	3	1	4-6	4-6	2500
17	Blacksod Point..	1023.0	-8	S'E	1	c	55	97	8	-	7	-	0	10	-
18	Malin Head ...	1023.7	-2	NE'E	1	c	55	85	8	8	7	-	2-3	7-8	1500
	Aldergrove ...	1023.8	-8	ESE	2	bc	58	65	7	8	6	-	4-6	4-6	2500
19	Birr Castle ...	1023.1	-8	ESE	1	c	56	63	8	8	1	-	7-8	10	1500
20	Valentia Obsy. †	1022.4	-10	S'E	2	c	56	65	8	5	-	-	9+	9+	4000
	Roches Point ...	1022.1	-12	N'E	2	c	56	75	7	5	-	-	9+	9+	2500

OBSERVATIONS at 18h. G.M.T. 2nd. 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)	1018.5	0	NE'N	4	z_o	54	65	6	5	-	1	7-8	7-8	2500	0	*
Croydon	1018.6	-2	NE	3	z_o	52	55	6	5	-	4	2-3	4-6	3500	0	*
S. Farnborough	1018.6	-2	NE	3	bc	53	65	7	4	3	4	2-3	4-6	1500	0	*
Boscombe Down	1018.8	0	NE'N	3	bc	50	75	7	-	-	1	0	2-3	-	0	*
Calshot (Soton.)	1017.9	-4	NNE	2	z_o	54	65	6	-	3	6	0	4-6	-	0	1
Lympne	1018.0	-4	NE	2	bc	48	75	8	4	-	1	2-3	4-6	4000	0	§
Manston	1018.6	-2	NE'N	4	bc	53	63	7	1	-	5	4-6	4-6	3000		*
Shoeburyness	1018.9	-8	NE	3	bc	51	65	8	2	-	1	4-6	4-6	4000	0	*
Felixstowe	1019.3	-8	NE'N	4	bc	53	65	8	4	-	2	4-6	4-6	3500	0	2
Gorleston	1019.9	-4	NE'E	5	c	55	65	6	8	-	-	9	9	2500	0	4
Mildenhall	1020.2	-2	NNE	3	c	51	75	8	5	2	-	9	9+	4500	0	*
Cranwell	1022.0	-8	ENE	3	c	51	65	8	5	-	-	10	10	2500	0	*
Birmingham	1020.8	-4	NE	3	m	51	65	4	6	-	-	10	10	2500	0	*
Upper Heyford	1020.6	+2	NE	4	c	51	65	8	4	3	-	7-8	9	3500	0	*
Ross-on-Wye	1020.3	0	NE	3	c	52	65	6	5	-	-	9+	9+	2500	0	*
Hartland Point	1019.2	-6	NE	3	bc	54	75	7	5	-	1	2-3	2-3	2500	0	2
Bristol	1019.9	-2	NNE	3	z_o	53	55	6	5	-	-	9	9	1500	0	*
Portland Bill	1017.8	-8	NE	4	c	55	85	7	1	4	-	4-6	7-8	4000	0	3
Plymouth	1018.7	-4	NE	2	bc	55	55	8	-	4	1	0	4-6	-	0	1
The Lizard	1019.3	-6	NE'E	2	bc	51	75	8	4	-	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1019.5	-6	NE	2	c	53	65	8	8	4	-	4-6	7-8	1500	0	2
Guernsey																
Pembroke	1020.5	-4	N'E	3	bc	50	75	7	5	7	-	2-3	4-6	2500	0	1
Holyhead	1021.3	-2	E'N	3	c	53	75	6	5	-	-	10	10	3500	0	1
Chester (Sealand)	1021.8	-4	NE'E	1	m	52	75	4	5	-	-	10	10	4000	1	*
Manchester	1021.6	-8	NE'E	3	m	53	65	4	5	-	-	10	10	3200	0	*
Spurn Head	1021.4	-6	NE'E	3	c	53	65	7	5	-	-	9+	9+	2500	0	2
Catterick	1022.9	-4	NE	1	z_o	51	85	6	5	-	-	10	10	4000	0	
Tynemouth	1023.8	-6	E	2	c	52	85	7	5	-	-	9+	9+	4000	0	1
St. Abbs Head	1022.8	-2	SW	3	bc	51	75	8	5	4	1	2-3	4-6	2500	0	2
Leuchars	1022.6	-6	E	1	bc	53	92	7	5	-	-	4-6	4-6	2500		*
Renfrew (Abbots I.)	1022.7	-6	SW'S	1	z_o	54	75	6	5	-	-	10	10	4000	1	*
Eskdalemuir	1022.9	-4	-	0	c	50	75	6	5	-	-	9+	9+	2500	1	*
Point of Ayre	1022.4	-8	SE	3	bc	51	85	7	5	-	5	2-3	2-3	2500	0	1
Tiree	1020.8	-2	-	0	c	52	97	7	5	-	-	9+	9+	1500	0	1
Stornoway	1021.2	-4	SW	3	c	53	85	8	5	6	6	7-8	7-8	2500	0	2
Dalwhinnie	1022.8	-6	S	1	c	50	75	7	4	-	-	9+	9+	1500	0	*
Aberdeen	1022.8	-4	S'E	1	c	51	92	6	5	-	3	4-6	7-8	800	0	1
Wick	1022.4	0	S	2	c	52	92	8	5	4	1	4-6	7-8	2500	0	1
Lerwick	1022.7	0	SW	3	bc	49	85	8	5	5	1	4-6	4-6	1500	1	*
Blacksod Point	1020.3	-14	-	0	c	54	97	8	-	7	-	0	9+	-	0	0
Malin Head	1021.3	-10	E	2	c	54	85	8	5	-	-	9	9	2500	0	1
Aldergrove	1022.1	-4	ESE	1	z_o	51	75	6	5	7	-	7-8	9+	2000	0	*
Birr Castle	1021.1	-4	S	1	c	53	85	8	8	1	-	7-8	10	1500	0	*
Valentia Obsy. †	1020.4	-10	SE	2	o	54	75	8	5	-	-	10	10	4000	0	0
Roches Point	1020.4	-8	E'N	3	c	53	85	8	5	-	-	9+	9+	2500	0	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 2nd. (37)	13h.—18h. 2nd. (38)	18h. 2nd. to 1h. 3rd. (39)	1h.—7h. 3rd. (40)
London (Kew)	cbeczbcy	bcycz_o	cbcz_o	bccr_or
Croydon	bczcz_oc	bc	bccm$_o$	
S. Farnborough	cmbcy	bcy	bccz_o	cbc$r_o r_o$c
Boscombe Down	bc	bc	bccm$_o$	bcm$_o$
Calshot (Soton.)	bcm$_o$y	bcybcz_o	bc$z_o$bm$_o$w	cm$_o$id$_o$
Lympne	cbc	c	bccir$_o$	
Manston	c	bc	bcc	cprrr
Shoeburyness	cbccy	bcybc	bcc	idm$_o$rr$_o$
Felixstowe	bcy	bcybc	bcc	c,i$r_o$rr
Gorleston	bccbcq	bccq	cbcq	bcco'd$_o$q
Mildenhall	c	c	c,bbm$_o$	
Cranwell	cy	c	cz_o	cz_oDDm$_o$
Birmingham	cz	cz	c	c
Upper Heyford	cm$_o$c	c	cbcb	bccd$_o$m$_o$c
Ross-on-Wye	cmcz_o	cyc	c	cm$_o$
Hartland Point	cbc	bc	cbcc	cR
Bristol	cfwbczbcy	bccyz$_o$	c,b,cz	cbccm$_o$
Portland Bill	bcc	bcc	prb	prb
Plymouth	czbczbcy	bcybc		bz_ocz_oc
The Lizard	bcy	bc	bccbc	bcc
Scilly (St. Mary's)	cbcby	bbcc	cbcb	bbcc
Guernsey				
Pembroke	cm$_o$y	bbc	c	c
Holyhead	cm$_o$c	oz$_o$m$_o$c	cm$_o$c	cm$_o$c
Chester (Sealand)	ofmom$_o$	c$z_o$om	om	om$_o$cm
Manchester	mffoz_o	ocz	czz_o	cm$_o$mw
Spurn Head	o	c	c	c
Catterick	cmcm$_o$	cz_om$_o$	bm$_o$cm$_o$	cm$_o$
Tynemouth	c	c	cbco	oc
St. Abbs Head	c	cbc	bc	c
Leuchars	c	cbc	bccm$_o$w	cm$_o$of
Renfrew (Abbots I.)	c	c$z_o$ccz_o	cbcbm$_o$	
Eskdalemuir	cwcy	cyc	bcb	bccm$_o$
Point of Ayre	c	cbc	c	c
Tiree	id$_o$c	c	o	o
Stornoway	cid$_o$	c	c	
Dalwhinnie	c	cbcc		c
Aberdeen	bccz_o	bcz_o	cz_o	$z_o$cmw
Wick	bc	cbcc	cw	om$_o$c
Lerwick	cbc	bc	cbc	bcc
Blacksod Point	c	c	c	c
Malin Head	cvc	c	bc	c
Aldergrove	wcmcbc	c	cm$_o$	cm$_o$
Birr Castle	c	c	c	c
Valentia Obsy. †	cocbcc	co	o	ucd$_o$dcq
Roches Point	c	c	cid$_o$c	cid$_o$

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.

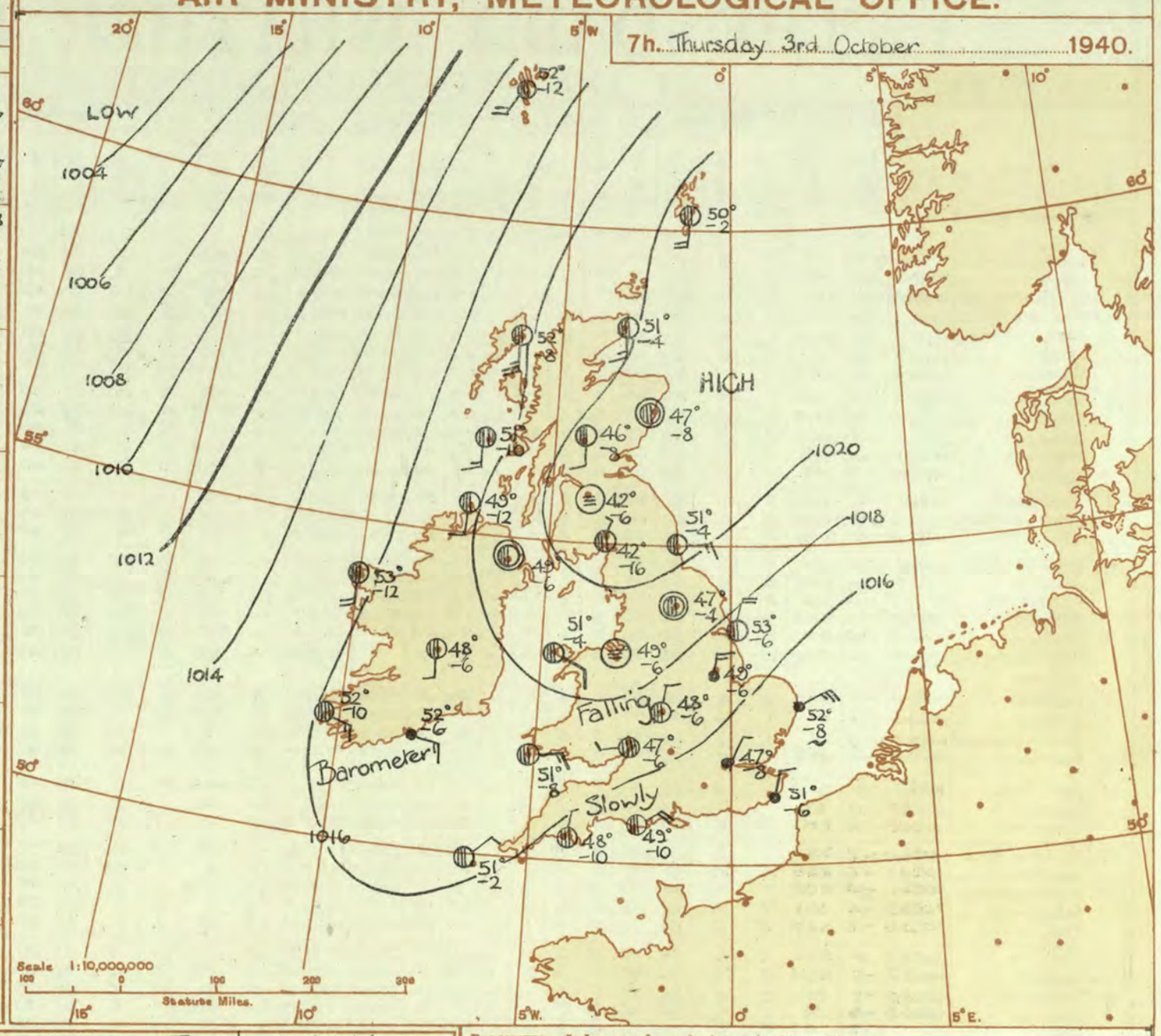
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 3rd October 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 2nd Oct.			18h. G.M.T.			01h. G.M.T. 3rd Oct.			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	77	01853	17314	5-	02747	16327	50	01744	00014	5-	05657	17227
115	73	01961	20325	--	57109	20329	51	02854	20255	72	02944	12327
203				86	02846	16426						
206	77	02955	00026	55	02968	00027	5-	02748	00028	5-	02757	00027
210				54	01864	14114				5-	02866	16126
220				53	02844	20227				5-	05648	22528
230	6-	02957	22127	5-	02967	20127	50	47213	00013	5-	05657	00017
245	20	00853	05323	40	04762	12114	50	04453	00023	5-	05647	00048
260	5-	05567	00027	5-	05568	00028						
277	70	01864	10424	5-	05658	13328	5-	02768	08228	57	02767	10228
279	--	05656	08226	--	08456	20126	--	05665	00015	--	05655	00025
285	8-	03648	10328	8-	03748	08228				5-	03638	10328
288	5-	05658	08228	5-	05568	04228						
273	11	01762	02004							53	05553	09106
301	5	05623	08228	5-	05567	06127	5-	05568	08128	5-	05558	08128
321	--	05668	04228	5-	05665	03315						
299	57	05643	06128				5-	02748	04328	5-	02747	06327
292	7-	02757	00027	5-	02768	04128	5-	05668	00028	5-	05567	00057
310	--	03528	32428	--	02628	32428						
316	52	02644	04268	5-	02653	04128	5-	05558	02228	5-	08468	02228
333	5-	02766	12326	5-	05668	16128	5-	05658	00028	7-	02868	02228
334												
340	5-	05657	04327	5-	05668	04228	5-	05568	02328	5-	05666	02326
136	5-	02868	04468	5-	02868	05228	5-	01765	04325	57	02874	06227
336	--	02854	08327	--	03742	04428				--	02741	04327
350	7-	02757	03427				5-	05668	03328	52	22644	02367
368	5-	05665	04215	53	05664	05227				57	02766	32128
379				5-	02758	04428	50	05651	06301	57	05653	06326
390				54	02755	04326	5-	05655	04255	6-	62538	00068
382	40	01854	07324	43	01864	02315				57	62675	32227
438	86	02854	04515							6-	52228	02528
430	50	02766	04516	00	01730	06315						
409	10	05773	06803	50	05762	05203	00	05690	04200	5-	02856	00016

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 2nd October, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate N.E. winds, fresh locally, decreasing later; dull; rainy; rather cold.
5 S.W. England 6 South Wales ...	Light N.E. wind becoming South; cloudy; local rain; rather cold.
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 east wind, becoming S.E., moderate; fair at first; rain later; cool.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light S.E. wind becoming moderate or fresh, strong locally on coasts; fair at first; rain late in period; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Freshening south wind; fair at first; rain later; average temperature.

GENERAL INFERENCE.

An anticyclone centred over South Scandinavia is receding eastwards, and a new anticyclone is developing over S.E. Europe. A depression over East France is probably moving N.W. and a trough of low pressure is approaching our S.W. coasts. Dull and rainy conditions in the East + Southeast will spread slowly W. + N., but weather will continue fair for a time in Scotland.

FURTHER OUTLOOK.

Further Outlook.

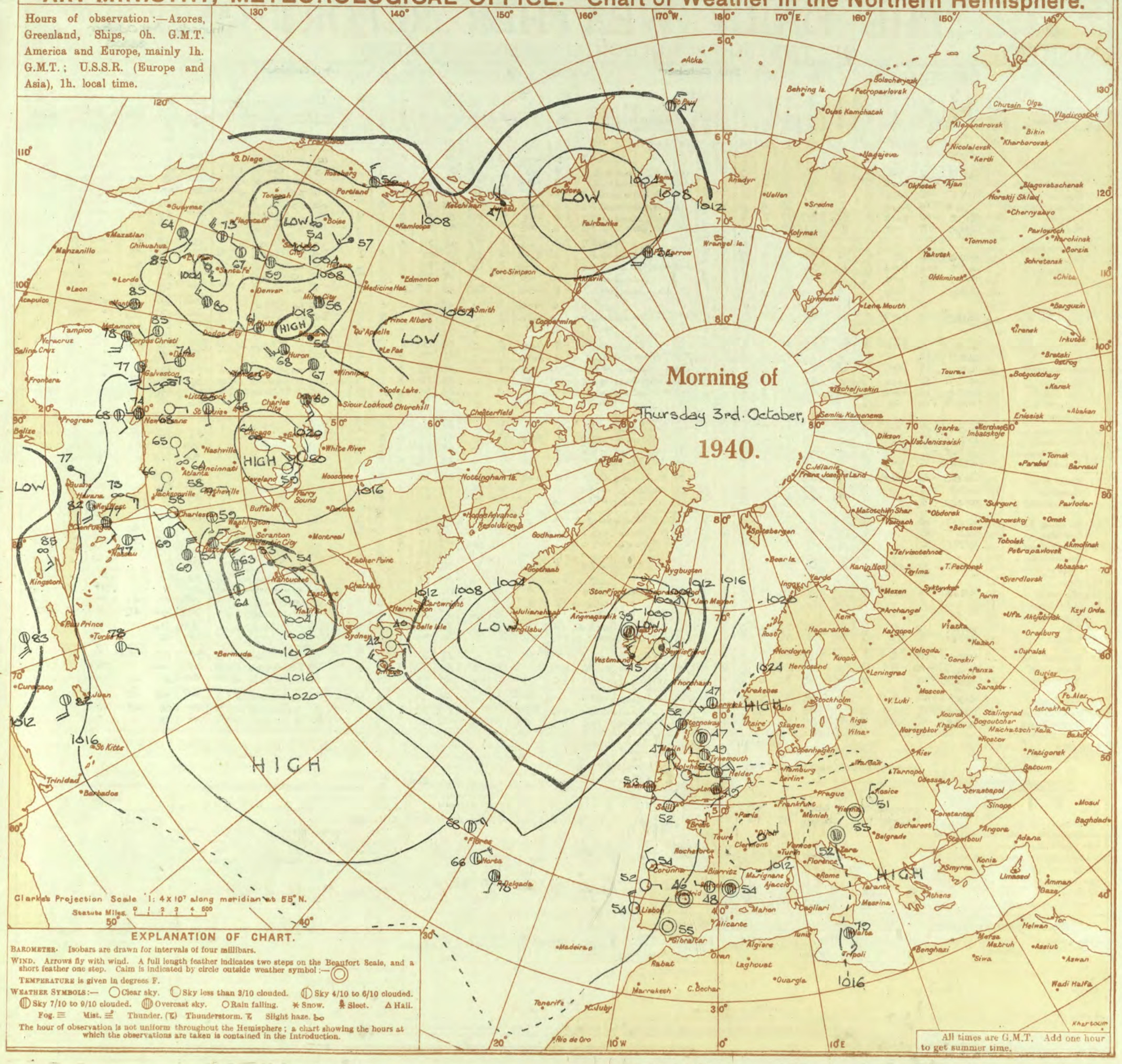
Unsettled; a cold front will probably move move eastwards across the British Isles from the West.

Forecasts issued at 1030h G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 3rd. October 1940.

No. 28803

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)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1016·9	-6	NE	4	z	49	75	5	5	-	-	10	10	2500
	S. Farnborough	226	1016·9	-18	NNE	2	z̊	49	75	6	5	-	-	10	10	2500
	Boscombe Down	417	1017·7	-16	NNE	3	c	47	85	6	5	-	-	7-8	7-8	2500
	Calshot (Sthmtn.)	8	1016·4	-14	NNE	3	z	49	85	6	5	-	-	7-8	7-8	4500
	Lympne ...	346	1015·8	-14	ENE	3	p/p	52	92	7	5	-	-	10	10	2500
	Manston ...	154	1013·9	-18	NE	4	c	54	75	7	5	-	-	10	10	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1016·6	-18	NE	4	c	59	75	7	5	-	-	9+	9+	3000
	Gorleston ...	5	1017·8	-14	ENE	5	bc	54	65	7	2	-	-	4-6	4-6	1500
	Mildenhall ...	19	1017·7	-16	N'E	2	z	45	97	6	5	-	-	1	1	8000
	Cranwell ...	240	1020·3	-12	NE	2	z	50	75	6	5	-	-	9+	9+	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1018·9	-14	NE'E	4	b	44	92	7	5	-	-	Tr	Tr	3000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1018·2	-6	ENE	3	c	52	75	7	5	2	-	4-6	9	2500
	Bristol ...	209	1018·7	-14	-	0	z	46	75	5	5	-	-	7-8	7-8	4000
	Portland Bill ...	32	1016·5	-14	NE	4	bc	50	85	8	5	-	-	4-6	4-6	4000
	Plymouth ...	82	1018·0	-8	NE	2	z	47	75	6	5	-	-	2-3	2-3	4000
	The Lizard ...	240	1017·5	-14	NNE	3	bc	46	85	8	4	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1018·2	-10	NE	2	b	52	75	6	-	4	-	0	1	-
	Guernsey ...	175														
6	Pembroke ...	142	1019·0	-4	NE	3	c	51	75	7	5	-	-	9+	9+	3000
7	Holyhead ...	26	1020·3	-8	S'E	2	c	52	75	6	5	-	-	10	10	3000
	Chester (Sealand)	16	1020·7	-6	ENE	1	m	49	85	4	5	-	-	10	10	4000
8	Manchester ...	70	1020·5	-10	NNE	1	z	48	85	5	5	-	-	10	10	3200
10	Spurn Head ...	29	1018·3	-16	NE'N	4	c	53	75	6	4	-	-	9+	9+	4000
	Catterick ...	175	1021·7	-14	-	0	z	47	97	6	5	-	-	10	10	4000
	Tynemouth ...	108	1022·9	-8	W	1	o	49	85	6	5	-	-	10	10	1500
11	St. Abbs Head	280	1021·7	-10	SW	2	bc	50	75	7	5	5	-	2-3	4-6	2500
	Leuchars ...	36	1021·7	-10	-	0	z	45	97	6	5	-	-	9	9	1500
12	Renfrew (Abbots I.)	19	1022·1	-6	-	0	z	41	92	6	5	-	-	2-3	2-3	5000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1021·3	-8	SSE	4	c	53	75	7	5	1	-	7-8	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1020·8	-14	SSW	3	c	52	85	7	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1021·2	-10	S	1	c	51	97	6	5	-	-	10	10	1500
16	Lerwick ...	156	1022·1	-8	SW	3	bc	47	92	8	5	-	-	4-6	4-6	2500
17	Blacksod Point	18	1018·0	-16	S	3	c	54	92	7	5	-	-	9+	9+	1500
18	Malin Head ...	84	1010·2	-10	S	2	c	47	92	7	8	-	-	7-8	7-8	5700
	Aldergrove ...	268	1020·8	-10	-	0	z	49	85	6	5	-	-	10	10	3200
19	Birr Castle ...	173	1019·7	-10	S	1	c	50	85	8	5	-	-	10	10	1500
20	Valentia Obsy.	30	1018·4	-18	SE'E	3	o	53	75	8	5	-	-	10	10	4000
	Roches Point	22	1018·8	-12	E'N	2	c/d	52	92	7	5	-	-	9+	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 3rd. 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)	1014·8	-6	NNE	3	rr	48	85	5	5	-	-	10	10	1500	1	*
Croydon	1015·1	-8	NE	1	rr	47	97	4	5	-	-	10	10	1500	1	*
S. Farnborough	1015·1	-6	NE'N	2	r̊r̊	47	92	6	5	-	-	10	10	1500	1	*
Boscombe Down	1015·3	-10	N	3	c	44	97	7	-	7	-	0	7-8	-	0	*
Calshot (Sthmtn.)	1014·6	-6	NNE	3	c/d	48	85	7	5	2	-	4-6	10	4000	0	2
Lympne	1013·9	-6	NNE	2	dd	51	97	5	6	2	-	9+	10	800	1	§
Manston	1013·9	-6	NE	3	rr	52	97	5	5	-	-	10	10	1500		*
Shoeburyness	1014·2	-4	N'E	3	rr	49	92	5	-	2	-	10	10	450	1	*
Felixstowe	1014·1	-10	ENE	4	dd	51	97	6	5	2	-	7-8	10	1400	1	2
Gorleston	1015·6	-8	ENE	5	id	52	85	6	6	-	-	10	10	1500	1	4
Mildenhall	1015·9	-10	N'E	2	iċ	48	92	7	5	7	-	4-6	10	3200	1	*
Cranwell	1017·7	-6	NNE	3	DD	49	85	6	5	2	-	7-8	10	1500	1	*
Birmingham	1017·5	-6	NNE	2	c	48	75	6	5	7	-	4-6	10	5700	0	*
Upper Heyford	1016·5	-10	NNW	2	iċ	48	80	7	5	7	-	2-3	9+	2000	0	*
Ross-on-Wye	1017·1	-6	W	1	z	47	85	6	5	-	-	10	10	2500	0	*
Hartland Point	1016·1	-8	NE	3	c	52	65	8	5	-	-	9+	9+	2500	0	2
Bristol	1016·9	-6	NNE	2	z	47	85	6	5	-	-	9+	9+	4000	0	*
Portland Bill	1014·1	-10	NE	4	c	49	92	7	5	-	-	10	10	4000	0	3
Plymouth	1015·7	-10	N'E	1	c	48	75	8	5	-	-	9+	9+	4000	0	0
The Lizard	1016·5	-2	N	3	c	47	75	8	8	6	-	7-8	7-8	2500	0	2
Scilly (St. Mary's)	1016·8	-2	NE'N	1	c	51	75	8	5	6	-	7-8	9+	1500	0	1
Guernsey																
Pembroke	1017·5	-8	E	3	c	51	65	7	5	2	-	7-8	9+	2500	0	1
Holyhead	1018·3	-4	ESE	2	c	51	75	6	5	-	-	9+	9+	4000	0	1
Chester (Sealand)	1018·6	-6	-	0	m	49	86	4	5	-	-	9+	9+	3800	1	*
Manchester	1018·7	-6	NE	1	m	49	92	4	5	-	-	10	10	3300	0	*
Spurn Head	1016·7	-6	NNE	4	c	53	75	7	5	-	-	9+	9+	2500	0	2
Catterick	1019·6	-4	-	0	z	47	92	6	5	-	-	9	10	3500	0	*
Tynemouth	1021·0	-4	E	3	c	51	85	6	8	-	-	9	9	3000	0	1
St. Abbs Head	1019·9	-4	-	0	c	49	85	7	5	-	-	9+	9+	2500	0	1
Leuchars	1019·7	-10	-	0	f	49	97	2	-	-	-	10	10	<150	0	*
Renfrew (Abbots I.)	1020·3	-6	-	0	m	42	97	4	5	-	-	10	10	3500	1	*
Eskdalemuir	1019·7	-16	NNE	1	c	42	92	7	5	-	-	9+	9+	5700	1	
Point of Ayre	1018·8	-8	SE'S	3	c	53	85	8	4	7	-	7-8	9+	2500	0	1
Tiree	1017·0	-10	S	3	o	51	85	6	5	-	-	10	10	2500	0	3
Stornoway	1017·7	-8	S	5	c	52	75	7	5	-	6	9	9+	4000	1	3
Dalwhinnie	1020·0	-8	S	2	c	46	75	7	5	-	-	9+	9+	1500	0	*
Aberdeen	1020·0	-8	-	0	m	47	97	4	7	-	-	9+	9+	2500	1	1
Wick	1019·4	-4	S	3	c	51	97	7	5	7	-	7-8	10	1500	0	1
Lerwick	1020·6	-2	S'W	4	c	50	85	8	5	7	-	4-6	9+	1500	1	*
Blacksod Point	1014·8	-12	S	4	c	53	97	7	5	-	-	10	10	1500	0	3
Malin Head	1017·5	-12	S	2	c	49	75	7	9	-	-	7-8	7-8	4000	0	2
Aldergrove	1018·1	-6	-	0	z	49	75	5	5	-	-	10	10	3200	0	*
Birr Castle	1017·4	-6	S	1	c	48	85	7	5	-	-	10	10	1500	0	*
Valentia Obsy.	1016·1	-10	ESE	3	o	52	85	8	5	-	-	10	10	4000	0	2
Roches Point	1017·6	-6	E'S	3	id	52	85	7	5	-	-	9+	9+	1500	0	2

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 2nd. Hrs. (36)
London (Kew)	59	47	42	-	2	7·1
Croydon	58	46	44	-	2	6·7
S. Farnborough	59	45	44	-	0·4	7·4
Boscombe Down	58	39	37	-	-	8·6
Calshot (Sthmtn.)	59	47	43	-	Tr	8·5
Lympne	57	48	42	-	3	6·9
Manston						
Shoeburyness	59	48	41	-	5	8·5
Felixstowe	58	50	48	-	4	8·2
Gorleston	57	50	50	-	Tr	7·4
Mildenhall	56	43	31	-	0·4	2·2
Cranwell	54	48	48	-	Tr	0·0
Birmingham	54	47	44	*	-	0·1
Upper Heyford	56	43	30	-	Tr	*
Ross-on-Wye	55	45	39	-	-	0·7
Hartland Point	56	50	48	-	-	7·5
Bristol	58	45		-	-	
Portland Bill	57	48	*	-	-	*
Plymouth	58	47	37	-	-	9·0
The Lizard	57	45	*	-	-	9·1
Scilly (St. Mary's)	60	49	*	-	-	7·7
Guernsey						
Pembroke			*	-	-	
Holyhead	56	49	48	-		0·5
Chester (Sealand)	55	48	46	-	-	0·1
Manchester	54	46	45	-	-	0·0
Spurn Head	54	(53)	*	-	-	
Catterick	58	46	37	-	-	0·0
Tynemouth	55	47	41	-	-	
St. Abbs Head	59	48	*	-	-	*
Leuchars		44	36		-	0·2
Renfrew (Abbots I.)	60	38	31	Tr	-	0·8
Eskdalemuir	53	35	28	-	-	0·4
Point of Ayre	55	51	*	-	-	1·4
Tiree	56	49	*	0·1	-	0·2
Stornoway	55	51	*	Tr	-	0·9
Dalwhinnie	55	45	41	-	-	2·2
Aberdeen	55	45	42	-	-	4·7
Wick	54	50	*	-		*
Lerwick	54	46	*	-	-	7·9
Blacksod Point	55	52	*	-	-	*
Malin Head	56	44	*	Tr	-	0·4
Aldergrove	59	47	46	-	-	4·5
Birr Castle	56	48	46	-	-	0·0
Valentia Obsy.	57	51	48	-	Tr	2·4
Roches Point	57	51	*	-	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.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 hrs. ended 9h.											
Kew	18	chcczbq	bcycz	cbczff	59	47	42	-	2	7·1	*	*	5
Croydon	217	bczcze	bc	bcem	58	46	44	-	2	6·7	*	*	3
Greenwich (Royal Observatory)‡	149												
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	60	48	43	3			51	93	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110			*						*	*		*
Kensington	80	bc	bc	*	61	48	36	-	4		54	96	*
Hampstead Observatory	450	bc	bc	bcor	56	45	39	-	5		*	99	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington.				
Kew Observatory.	0·1	7-9 2nd	<0·1	0-7h. 3rd.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Preciptious.
4 Rough. 9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 4th October 1940.

No. 28806

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)	1012.6	-10	NNE	2	o/d	51	97	5	5	-	-	10	10	800
	Croydon	1012.5	-12	NE	1	df	50	97	3	5	-	-	10	10	200
	S. Farnborough	1012.5	-12	NE	3	dd	50	97	5	6	2	-	9+	10	600
	Boscombe Down	1012.9	-18	NE'N	3	dd	50	92	6	6	2	-	9+	10	600
	Calshot (Soton.)	1012.4	-10	NE	3	dd	52	92	6	5	2	-	9+	10	900
	Lympne	1013.4	0	SE	2	id	51	97	5	6	2	-	9	10	800
	Manston	1013.1	-4	SE	3	ir	52	92	6	5	-	-	10	10	800
2	Shoeburyness	1012.9	-4	SE'E	3	id	53	92	5	5	2	-	9+	10	450
	Felixstowe	1012.5	-6	SSE	4	id	53	92	5	5	-	-	10	10	1600
	Gorleston	1013.7	-10	ESE	4	ir	54	85	6	6	-	-	10	10	1300
	Mildenhall	1012.8	-18	NE'N	2	rr	53	97	5	6	2	-	4-6	10	100
	Cranwell	1014.8	-18	E	4	ir	54	75	6	5	7	-	7-8	10	1500
3	Birmingham	1014.3	-14	NNE	2	z	51	85	5	6	-	-	10	10	1500
	Upper Heyford	1014.1	-10	NE	3	ir	51	85	6	7	2	-	7-8	10	900
4	Ross-on-Wye	1014.4	-12	NE	3	z	51	85	6	5	-	-	10	10	1500
5	Hartland Point	1014.4	-10	NE	3	c	56	65	8	2	3	-	1	9	2500
	Bristol	1013.8	-18	NNE	3	ir	51	85	6	5	2	-	9	10	1600
	Portland Bill	1012.8	-10	NNE	3	rr	51	92	7	5	-	-	10	10	2500
	Plymouth	1013.4	-14	NNE	2	c	54	65	7	5	-	-	9+	9+	3500
	The Lizard	1014.6	-10	NNE	2	c	56	65	8	8	6	-	7-8	7-8	2400
	Scilly (St. Mary's)	1015.2	-10	NNE	2	c	54	55	8	5	7	-	7-8	9+	1500
	Guernsey														
6	Pembroke	1015.4	-8	SE'E	2	c	56	55	8	7	-	-	7-8	7-8	4500
7	Holyhead	1015.9	-18	-	0	c	55	75	7	5	-	-	9	9	5500
	Chester (Sealand)	1015.6	-18	-	0	z	54	75	5	5	-	-	10	10	4500
8	Manchester	1015.7	-18	NNE	2	z	55	55	6	5	-	-	9+	10	4500
10	Spurn Head	1014.9	-14	NE'N	4	c	54	75	7	4	2	-	4-6	10	2500
	Catterick	1016.6	-18	NNE	1	c	53	75	8	7	3	-	9	9+	3500
	Tynemouth	1018.6	-18	NNE	3	c/pr	49	85	7	8	-	-	9+	9+	3000
11	St. Abbs Head	1017.6	-12	SE	3	c	50	75	8	5	2	-	9	10	2500
	Leuchars	1017.3	-14	SE	3	c	52	75	7	8	7	-	9	10	2500
12	Renfrew (Abbots I.)	1017.1	-20	SE	1	o/f	54	65	5	5	-	-	10	10	4000
	Eskdalemuir	1016.9	-20	S	1	c	50	75	8	7	-	-	9+	9+	2500
	Point of Ayre	1016.5	-18	S	2	c	55	85	8	4	2	-	4-6	10	4000
13A	Tiree	1014.7	-12	SSE	4	o	52	85	6	5	-	-	10	10	2500
13B	Stornoway	1015.7	-16	S	5	c	53	75	7	5	7	-	9	10	1800
15	Dalwhinnie	1016.9	-18	S	3	bc	53	55	7	1	-	-	4-6	4-6	2500
	Aberdeen	1018.1	-14	SSE	2	c	51	75	7	5	-	-	10	10	4000
	Wick	1017.2	-14	SSE	4	c	53	85	7	5	7	1	7-8	9+	1500
16	Lerwick	1019.6	-8	S	5	c	50	75	8	5	7	-	4-6	9	1500
17	Blacksod Point	1013.0	-14	S	4	c	57	97	7	9	5	-	4-6	9	800
18	Malin Head	1015.2	-12	S	4	z	53	65	6	8	-	-	9+	9+	1500
	Aldergrove	1016.0	-16	SSE	1	z	51	75	6	5	-	-	10	10	3500
19	Birr Castle	1015.4	-12	SSW	1	c	53	75	7	5	-	-	10	10	2500
20	Valentia Obsy. †	1014.5	-12	S	4	c	57	75	7	1	5	-	9+	9+	4000
	Roches Point	1015.1	-14	SSW	3	c	55	85	7	5	-	-	9+	9+	2500

OBSERVATIONS at 18h. G.M.T. 3rd 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)	1012.2	+2	ESE	2	m/d	51	97	4	5	-	-	10	10	1500	1	*
Croydon	1011.9	0	SE	1	m/d	50	97	4	5	-	-	7-8	7-8	1400	1	*
S. Farnborough	1011.7	-4	E	1	of+	51	97	3	5	-	-	10	10	500	1	*
Boscombe Down	1012.0	0	N	2	dd	49	97	5	-	2	-	10	10	200	1	*
Calshot (Soton.)	1011.5	-2	NNE	2	rr	51	97	5	5	2	-	9+	10	600	1	1
Lympne																§
Manston																*
Shoeburyness	1013.1	+2	SE	2	c	53	92	6	5	2	-	9+	10	2500	1	*
Felixstowe	1013.4	+6	S	3	z	53	92	6	5	2	-	7-8	10	1200	1	1
Gorleston	1013.6	+2	S	3	ir	53	85	5	6	-	-	10	10	1500	1	3
Mildenhall	1012.4	+2	SE	2	s/r	53	97	5	5	2	-	9	10	2000	1	*
Cranwell	1013.1	-10	NNE	3	dd	51	97	5	5	-	-	10	10	700	1	*
Birmingham	1012.9	-8	N	2	df	49	97	3	6	-	-	10	10	800	0	*
Upper Heyford	1012.7	-6	NNE	3	dd	50	97	5	6	2	-	9	10	500	1	*
Ross-on-Wye	1013.3	-6	N'W	2	rf	49	97	3	5	-	-	10	10	450	1	*
Hartland Point	1013.0	-6	NE	3	c	53	85	8	8	?	-	4-6	9+	2000	0	2
Bristol	1013.1	-2	NNE	2	rf	49	97	3	-	2	-	10	10	900	1	*
Portland Bill	1011.4	-2	N	3	o	50	92	7	5	-	-	10	10	1500	1	3
Plymouth	1012.8	-2	NNE	3	o/d	52	85	6	5	-	-	10	10	3000	0	1
The Lizard	1014.4	+4	N	3	o	53	75	8	8	2	-	9	10	2400	0	2
Scilly (St. Mary's)	1014.5	-2	NW'W	2	c	53	65	8	5	7	-	7-8	9+	1500	0	1
Guernsey																
Pembroke	1013.5	-6	NE'N	3	c	52	65	7	5	6	-	4-6	9+	4500	0	1
Holyhead	1013.9	-6	NE'N	2	c	53	75	7	5	7	-	10	10	4000	0	1
Chester (Sealand)	1014.3	-6	-	0	z	50	92	5	5	2	-	4-6	10	3200	1	*
Manchester	1014.2	-6	NE	2	dr	49	92	4	5	-	-	10	10	800	1	*
Spurn Head	1013.1	-6	NNE	3	ir	53	97	6	6	-	-	10	10	800	1	2
Catterick	1015.0	-6	-	0	rr	49	92	6	5	2	-	7-8	10	1500	1	
Tynemouth	1016.5	0	E	3	c	51	75	8	8	-	-	9	9	3200	1	2
St. Abbs Head	1015.5	-4	SSW	3	c	50	92	8	5	4	-	7-8	9	2500	0	3
Leuchars	1015.2	-10	ESE	2	c	51	85	7	5	-	-	9+	9+	3500	0	*
Renfrew (Abbots I.)	1014.7	-10	-	0	z	51	75	5	5	-	-	10	10	5000	1	*
Eskdalemuir	1015.0	-10	-	0	c	46	85	7	5	-	-	10	10	2500	0	*
Point of Ayre	1014.4	-6	W'S	1	c	51	92	7	5	2	-	7-8	10	4000	0	1
Tiree	1012.5	-6	S	2	o	52	85	5	5	-	-	10	10	2500	0	3
Stornoway	1013.5	-8	S	5	c	52	75	7	5	2	-	7-8	10	1200	1	3
Dalwhinnie	1014.3	-10	S	2	c	47	75	6	4	2	-	4-6	10	2500	0	*
Aberdeen	1015.9	-10	S	2	c	49	65	6	9	-	-	10	10	2500	0	2
Wick	1014.7	-14	SSE	5	c	50	85	8	5	7	2	7-8	9+	1500	1	2
Lerwick	1017.0	-8	S'E	5	c	49	75	8	5	7	-	7-8	9+	800	0	*
Blacksod Point	1010.8	-12	S	4	c	55	97	7	9	-	-	9+	9+	800	1	3
Malin Head	1012.7	-8	SSE	2	z	52	75	6	5	-	-	9	9	2500	0	1
Aldergrove	1014.2	-6	SE'S	1	z	50	85	6	5	-	-	10	10	4500	1	*
Birr Castle	1013.4	-6	S	1	c	52	75	7	5	1	-	7-8	10	2500	0	*
Valentia Obsy. †	1012.2	-14	SSE	4	c	56	85	8	5	7	-	7-8	9+	4000	0	2
Roches Point	1013.5	-8	SW	3	c	53	85	8	8	-	-	9+	9+	1500	0	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 3rd. (37)	Weather 13h.—18h. 3rd. (38)	Weather 18h. 3rd to 1h. 4th. (39)	Weather 1h.—7h. 4th. (40)
London (Kew)	rrorrd	fdrcidm	edd dom	cb cm
Croydon	RRddf		omdd	
S. Farnborough	crrdrc	ddrdfc	fdmrc	
Boscombe Down	cirdir	cddm	ddidm	iddm
Calshot (Soton.)	cidrm	cdddrm	odrmc	cbecwm
Lympne	cddirdm		cmc	
Manston	cidirm		c	bedde
Shoeburyness	rrDdc	idrrm	mrrc	errdde
Felixstowe	oiddid	idirom	pirmom	cmir
Gorleston	orr	orir	oirc	eq
Mildenhall	irrdd	eddmcirr	em bm	bm cmir
Cranwell	DDm, ir	eddm	dddff	
Birmingham	coir	oird	fdr	rrfo
Upper Heyford	crrmc	cddm	cddmm	ddmeid
Ross-on-Wye	czprm	rmdmrf	rrf	dfrf
Hartland Point	c	c	c	cbecr
Bristol	cirirm	cirmorf	ddddff	oddrr
Portland Bill	orr	o	prb	prb
Plymouth	ebcc	cidc		cm cm jf
The Lizard	c	co	c	cprrr
Scilly (St. Mary's)	cj	c	c	crr
Guernsey				
Pembroke	cj	c	bc	rc
Holyhead	c	c	cmc	cmjfc
Chester (Sealand)	ocom	ozrmc	omo	coidf
Manchester	cmzzj	drff	cmddDD	DDdddf
Spurn Head	cpro	iro	oid	oc
Catterick	cmzc	ccirm	crrm	rrddf
Tynemouth	cpr	c	c	cpr
St. Abbs Head	c	c	c	ir c
Leuchars	offcmcmc	c		cmrrc
Renfrew (Abbots I.)	cmffz	cz	cm	cmwm
Eskdalemuir	c	c	c	cmw
Point of Ayre	c	c	c	c
Tiree	o	co	o	odc
Stornoway	c	c	c	c
Dalwhinnie	ebc	c		c
Aberdeen	czc	ccz	ccir	circ
Wick	c	c	em	emc
Lerwick	c	c	cpr	cpr
Blacksod Point	c	irc	c	c
Malin Head	z	z	z	z
Aldergrove	cmzc	cz	em	cm
Birr Castle	c	c	bcc	oir
Valentia Obsy. †	oidc	cprc	ciRcidrd	drrrcbcc
Roches Point	c	c	c	rrirc

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.*

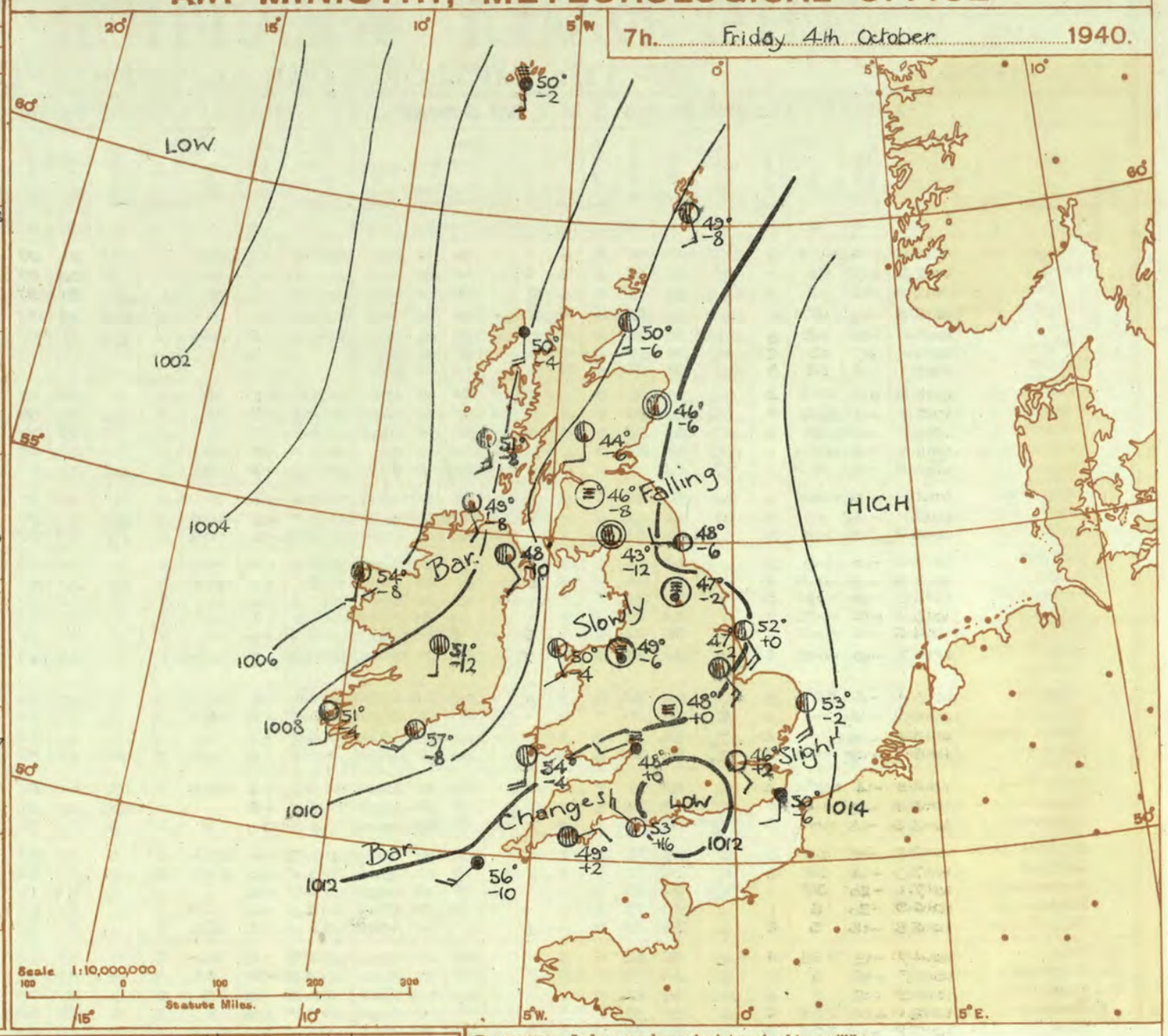
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 3rd. Oct.			18h. G.M.T.			01h. G.M.T. 4th. Oct.			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-	02716	13526	51	02747	15425	5-	02757	14227	5-	03768	14228
115	52	02844	16327	61	02844	16225	52	02844	16227	52	02734	20227
203												
206	74	01864	16325	5-	02864	18226	5-	03648	00028	5-	05657	00027
210				53	02865	14427	5-	02866	16326			
220	5-	05528	22528	52	05644	17328				52	05643	22328
230	5-	02868	16128	5-	02868	14128	5-	03758	12128	5-	05668	12128
245	53	02854	13427	57	02855	13327	51	51657	28158	57	21854	24158
260	3-	05554	00027	5-	02768	10128	5-	05668	00028	5-	61668	00068
277	5-	02868	11328	5-	02766	14288	5-	02768	07128	5-	05668	16358
279				--	05568	00028	--	03458	00028	--	08458	00068
285	8-	03748	08328	8-	03638	08428				5-	03738	20128
288	5-	21758	02128	8-	02758	06228	5-	05548	00028	5-	57328	30168
273	43	05543	15316							51	01653	15155
301	57	05755	06127	52	05566	08468	5-	05558	00028	52	61554	14168
321	5-	02768	02368	02	52658	32258	02	51428	30158	53	05545	14257
299	5-	02747	01327	5-	57328	06358	5-	52438	20458	5-	05637	20427
292	13	02864	06227	57	02864	08258	5-	58638	28258	--	57309	00069
310	--	02638	04428	--	46209	04849				--	57208	04349
316	52	02756	14753	62	57325	02358	02	57338	32158	57	45335	16147
333	5-	02886	04127	5-	03668	00028	5-	05658	00028	5-	05568	00028
334												
340	5-	05658	01168	02	52438	02358	6-	57328	02158			
136	62	54517	04368				57	05663	16358			
336	--	03854	04428	--	03742	04328				--	52533	32458
350	62	54426	03358	62	62426	02258				53	08573	14215
368	57	61656	07128	52	61546	30168				57	05567	28127
379	62	51636	06368				02	54418	00058	--	57309	20159
390	6-	62428	02168				5-	05655	10165			
382	62	61644	02368	62	54426	01258	5-	05558	00028			
438										8-	02745	32255
430	02	04528	02268				57	51546	08358			
409	7-	02857	01427	7-	02757	31227	52	21745	13852	02	64528	18368

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 4th October 1940.



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. Friday 4th October, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate South wind veering S.W. and freshening on coasts; cloudy, with some rain at first; fair periods later; average temperature.
5 S.W. England 6 South Wales ...	Moderate S. wind, fresh on coasts, veering W. to S.W.; cloudy, some rain at first, fair periods later; 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.	Moderate S. to S.W wind; cloudy, occasional rain today, fair periods later; average temperature.
13 A. W. Scotld. / B. N.W. Scotland.	Moderate south wind, freshening later; cloudy, with occasional rain, average temperature
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 S-SW wind, freshening later on coasts; mainly cloudy with occasional rain, but fair periods; average temperature.

GENERAL INFERENCE.

Pressure is low to West and Northwest of the British Isles, and high over Spain. A feeble trough of low pressure over S.E. England is dying out, and another trough over Western districts is moving slowly east. There will be occasional rain in most districts, and more general rain will spread from the Southwest over Southern England today, followed later by fair conditions.

FURTHER OUTLOOK.

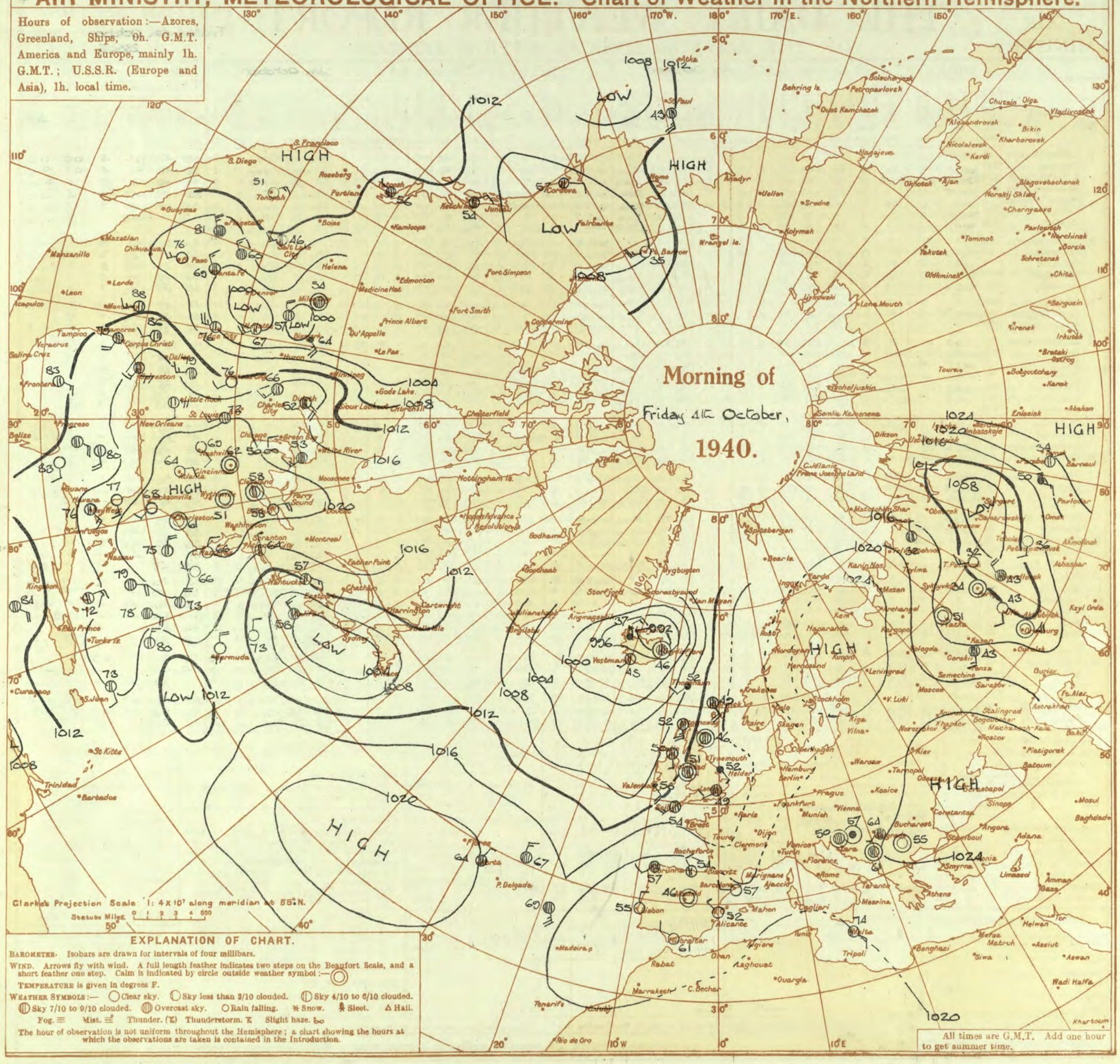
Winds mainly between South and West. Cloudy, with occasional rain in most districts.

Forecasts issued at 1030h G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 4th October 1940.

No. 28506

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)	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	1012.3	-2	SW	2	m	49	92	4	3	-	-	7-8	7-8	1200
	S. Farnborough	226	1011.9	-2	SE'S	2	z	49	97	6	5	2	-	7-8	10	2500
	Boscombe Down	417	1011.5	+2	-	0	id	49	97	4	6	-	-	10	10	800
	Calshot (Sthmtn.)	8	1011.1	-2	SE	3	c	55	85	7	5	7	-	7-8	9+	1600
	Lympne ...	346	1013.0	-4	3	4	c	51	92	7	5	-	-	10	10	1200
	Manston ...	154	1014.7	-6	S	4	b	50	85	6	5	-	-	1	1	2000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1014.1	0	S	5	z	54	85	6	5	2	-	4-6	9+	1500
	Gorleston ...	5	1014.2	+2	3	4	c	54	85	6	8	-	-	7-8	7-8	1500
	Mildenhall ...	19	1013.1	0	SE	2	z	50	85	6	5	-	-	2-3	2-3	4000
	Cranwell ...	240	1012.8	-2	SE'E	3	of	50	97	3	5	-	-	10	10	500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1012.2	-2	S	1	dd	49	97	4	-	2	-	10	10	200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012.9	0	N	3	c	52	85	8	8	2	-	7-8	10	2000
	Bristol ...	209	1012.5	-2	NNE	1	df	49	97	3	-	2	-	10	10	400
	Portland Bill ...	32	1011.8	-12	NW	3	o	52	85	7	5	-	-	10	10	1500
	Plymouth ...	82	1013.3	0	WNW	2	z	50	92	6	-	2	-	10	10	3100
	The Lizard ...	240	1013.0	+2	WNW	2	c	53	85	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1014.3	-2	SW	3	c	54	85	7	5	2	-	7-8	10	1500
	Guernsey ...	175														
6	Pembroke ...	142	1013.0	0	NE'N	2	bc	50	75	7	5	7	-	2-3	4-6	2500
7	Holyhead ...	26	1012.5	-6	-	0	c	51	85	6	5	-	-	10	10	3500
	Chester (Sealand)	16	1012.7	-8	-	0	o	49	92	5	5	-	-	10	10	2000
8	Manchester ...	70	1012.3	-6	N	1	DD	49	97	4	5	-	-	10	10	1200
10	Spurn Head ...	29	1012.6	0	SE'S	3	o	52	97	6	5	-	-	10	10	1500
	Catterick ...	175	1012.8	-10	NNW	1	z	49	97	5	5	-	-	10	10	900
	Tynemouth ...	108	1014.4	-6	E	2	c	51	92	6	8	-	-	9	9	3200
11	St. Abbs Head	280	1013.3	-12	S	2	c	48	92	8	5	4	-	7-8	9+	2500
	Leuchars ...	36	1012.8	-14	-	0	z	47	92	6	5	-	-	10	10	4000
12	Renfrew (Abbots I.)	19	1012.7	-14	-	0	z	47	92	5	5	-	-	10	10	5000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1012.8	-10	W'S	1	o	49	92	7	5	-	-	10	10	4000
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1008.7	-10	S	5	c	52	75	6	5	2	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1012.2	-12	S	4	c	50	85	6	5	1	-	7-8	10	1500
16	Lerwick ...	156	1013.2	-18	S	6	c/p	50	85	7	8	7	-	7-8	9+	800
17	Blacksod Point	18	1008.8	-10	SSE	3	c	52	97	7	9	-	-	9+	9+	1150
18	Malin Head ...	84	1009.2	-8	SSE	1	z	50	75	6	3	-	-	9	9	2500
	Aldergrove ...	268	1011.9	-6	SSE	1	z	49	85	6	5	-	-	10	10	4200
19	Birr Castle ...	173	1011.8	-12	S	2	c	50	85	8	5	-	-	10	10	2500
20	Valentia Obsy.	30	1009.3	-14	SE'S	4	dp	56	97	6	6	2	-	4-6	10	1500
	Roches Point	22	1011.3	-14	S'W	3	c	53	92	8	5	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 4th 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)	1011.0	+4	-	0	z	48	92	5	3	-	-	4-6	7-8	2500	1	*
	Croydon ...	1012.0	+2	SE	1	z	46	97	5	5	-	-	4-6	4-6	4000	1	*
	S. Farnborough	1012.2	+6	-	0	m	47	97	4	5	3	-	3	3+	4000	1	*
	Boscombe Down	1012.1	+10	NW	2	dp	48	97	5	6	-	-	10	10	400	1	*
	Calshot (Sthmtn.)	1012.2	+12	NNW	2	ip	51	97	6	5	7	-	9+	10	1100	1	§ 1
	Lympne ...	1012.7	-6	S	2	RR	50	97	4	8	-	-	9+	9+	500	1	*
	Manston ...	1013.1	-6	SSE	3	c/d	50	92	7	5	7	-	8	9+	2500		
2	Shoeburyness ...	1012.8	0	SE'S	2	dd	51	92	6	5	2	-	7-8	10	4000	1	*
	Felixstowe ...	1012.4	-8	S'W	3	c	52	85	7	8	-	-	9+	9+	2000	1	1
	Gorleston ...	1013.3	-2	S'E	4	c	53	85	6	8	-	-	7-8	7-8	1500	1	3
	Mildenhall ...	1012.3	-2	-	0	z	49	97	6	5	7	-	4-6	8	4500	1	*
	Cranwell ...	1012.4	-2	SE	3	z	47	97	5	5	-	1	10	10	800	1	*
3	Birmingham ...	1011.7	0	-	0	of	48	97	3	5	-	-	10	10	400	1	*
	Upper Heyford	1011.8	+2	-	0	z	48	97	5	5	7	-	9	9+	1100	1	*
4	Ross-on-Wye	1012.2	0	WSW	2	pf	48	97	3	-	2	-	10	10	450	1	*
5	Hartland Point	1012.2	0	S	2	p	51	85	7	5	2	-	4-6	9	2500	0	1
	Bristol ...	1012.1	+2	-	0	dd	48	97	5	-	2	-	10	10	600	1	*
	Portland Bill ...	1013.1	+6	WNW	3	c	53	92	7	5	2	-	7-8	10	2500	1	3
	Plymouth ...	1013.2	+2	ENE	2	o	49	92	5	5	-	-	10	10	2500	1	1
	The Lizard ...	1013.2	-2	SSW	4	pp	54	92	6	5	-	-	10	10	1000	1	3
	Scilly (St. Mary's)	1012.1	-10	SW'S	3	pp	56	97	6	8	2	-	7-8	10	1200	1	2
	Guernsey ...																
6	Pembroke ...	1011.1	-4	S	4	c/p	54	75	7	8	2	-	7-8	9+	4000	0	1
7	Holyhead ...	1010.7	-4	SSE	2	cf	50	92	5	5	-	-	9+	9+	3500	0	1
	Chester (Sealand)	1010.9	-6	-	0	df	49	97	3	5	-	-	10	10	3400	1	*
8	Manchester ...	1011.2	-2	-	0	df	48	97	3	5	-	-	10	10	700	1	*
10	Spurn Head ...	1012.0	0	SE'S	4	c	52	85	6	4	6	-	4-6	9+	2500	1	3
	Catterick ...	1011.4	-2	-	0	df	47	97	3	5	-	-	10	10	200	1	*
	Tynemouth ...	1012.5	-6	W	2	c/pp	48	92	5	8	-	-	9+	9+	2200	1	1
11	St. Abbs Head	1010.9	-12	SW	2	c/p	47	92	8	5	7	-	4-6	9+	2500	0	1
	Leuchars ...	1010.6	-6	-	0	o	46	97	7	-	2	-	10	10	2200	1	*
12	Renfrew (Abbots I.)	1010.5	-8	-	0	z	46	97	4	5	-	-	10	10	4000	1	*
	Eskdalemuir ...	1011.0	-12	-	0	z	43	92	6	-	3	-	0	10	-	1	
	Point of Ayre ...	1010.4	-6	S'E	3	c	52	85	8	5	2	-	7-8	10	4000	0	1
13A	Tiree ...	1007.3	-8	S'E	3	c	51	92	7	5	-	-	9+	9+	2500	0	3
13B	Stornoway ...	1007.8	-4	S	4	dd	50	85	6	5	3	-	10	10	3000	1	2
15	Dalwhinnie ...	*	-6	S	2	c	44	85	6	3	1	-	4-6	10	2500	0	*
	Aberdeen ...	1010.7	-6	-	0	c/p	46	97	5	9	2	-	9+	10	2500	1	2
	Wick ...	1009.7	-6	S	3	c	50	85	7	5	7	-	7-8	9+	1500	0	1
16	Lerwick ...	1011.5	-8	S'E	4	c/pp	49	85	8	8	2	-	7-8	10	800	1	*
17	Blacksod Point	1005.9	-8	S	1	c	54	97	8	3	-	-	7-8	9	800	1	2
18	Malin Head ...	1007.4	-8	SSE	1	z	49	85	7	8	-	-	9	9	2500	0	2
	Aldergrove ...	1009.1	-10	SE	2	z	48	85	6	5	-	-	9+	9+	4000	0	*
19	Birr Castle ...	1008.1	-12	S	1	o/p	51	97	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy.	1008.5	-4	S	2	c	51	97	8	5	7	3	Tr	7-8	1500	1	1
	Roches Point	1007.7	-8	SSW	3	c/p	57	97	7	5	-	-	9	9	800	1	3

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 3rd Hrs. (36)
1	London (Kew)	53	46	34	3	0.6	0.0
	Croydon ...	52	45	41	4	0.1	0.0
	S. Farnborough	51	46	41	3	1	0.0
	Boscombe Down	55	48	47	1	4	0.0
	Calshot (Sthmtn.)	53	49	47	1	1	0.0
	Lympne ...			48		3	0.0
	Manston ...						
2	Shoeburyness ...	54	50	45	3	1	0.0
	Felixstowe ...	55	52	48	3	0.2	0.0
	Gorleston ...	54	51	45	3	1	0.0
	Mildenhall ...	54	46	37	3	1	0.0
	Cranwell ...	55	47	46	1	1	0.0
3	Birmingham ...	51	47	46	0.6	3	0.0
	Upper Heyford	51	48	43	1	2	*
4	Ross-on-Wye	52	48	47	1	4	0.3
5	Hartland Point	57	51	47	-	Tr	0.7
	Bristol ...	52	48	47	1	5	0.4
	Portland Bill ...			*	0.4	5	*
	Plymouth ...	52	48				
	The Lizard ...	53	48	46	Tr	1	1.6
	Scilly (St. Mary's)	57	50	*	-	0.5	2.1
	Guernsey ...	55	53		-	3	0.0
6	Pembroke ...	57	46	*	-	Tr	3.0
7	Holyhead ...	57	49	48	-	-	1.4
	Chester (Sealand)	56	48	47	0.3	0.2	0.0
8	Manchester ...	55	47	47	0.1	3	0.0
10	Spurn Head ...	55	50	*	1	1	0.0
	Catterick ...	54	47	47	0.2	1	0.0
	Tynemouth ...	52	48	47	0.2	0.4	
11	St. Abbs Head	52	46	*	-	Tr	*
	Leuchars ...	53	45	43	-	0.3	0.1
12	Renfrew (Abbots I.)	55	46	44	Tr	-	0.0
	Eskdalemuir ...	51	42	40	-	-	0.1
	Point of Ayre ...	55	48	*	-	-	0.0
13A	Tiree ...	53	50	*	-	0.1	0.0
13B	Stornoway ...	58	49	*	-	Tr	0.0
15	Dalwhinnie ...	54	43	41	-	-	3.3
	Aberdeen ...	51	46	44	-	0.3	0.0
	Wick ...	54	48	*	-	-	*
16	Lerwick ...	58	48	*	-	Tr	1.1
17	Blacksod Point	58	51	*	0.3	7	*
18	Malin Head ...	54	47	*	-	-	0.1
	Aldergrove ...		49	44	-	-	0.0
19	Birr Castle ...	54	48	45	-	2	0.0
20	Valentia Obsy.	61	50	43	0.1	6	1.1
	Roches Point	57	53	*	Tr	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	rrcmdfdrcidmcbcm			53	46	34	3	0.6	0.0	*	*	6
Croydon ...	217	RRddf		dmdd	52	45	41	4	0.1	0.0	*	*	5
Greenwich (Royal Observatory) ...	149	odm	ddmc	abc	52	47	39	2	-	0.0	84	83	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	54	49	44	2		0.0	95	83	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	52	47	40	1	0.3	0.0	93	93	*
Camden Square ...	110			*						*	*		*
Kensington ...	80	crm	crm	*	53	47	33	2	0.3		97	90	*
Hampstead Observatory ...	450	or	odm	bcm	51	47	42	3	1	0.0	*	91	*

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.
0.2	15-17h.	0.1	22-24h.
	3rd		3rd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...														

‡ 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 ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

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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

Saturday 5th. October 1940.

No. 28807

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)	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	+8	SW'S	2	zo	55	75	6	8	3	-	7-8	9+	2500
	Croydon	1013·8	+8	SW	2	c/r	57	75	6	2	3	-	4-6	9	3000
	S. Farnborough	1013·9	+2	SW'W	3	zo	55	75	6	7	7	-	7-8	9+	1500
	Boscombe Down	1013·6	-2	S	3	ddo	51	97	4	-	2	-	10	10	1400
	Calshot (Soton.)	1014·0	+2	SW	3	dr	54	92	5	5	-	-	10	10	700
	Lympne	1014·7	+10	WSW	2	pr	56	85	8	8	3	-	4-6	9	2000
	Manston	1014·5	+8	SW	3	pr	57	75	7	8	7	5	4-6	9+	2000
2	Shoeburyness	1013·5	+8	SW	3	c	58	75	8	8	-	-	9+	9+	4000
	Felixstowe	1012·6	+2	SW	3	c	60	55	7	2	4	8	4-6	9	2500
	Gorleston	1012·8	-2	WSW	2	c	55	85	6	8	-	-	7-8	7-8	1500
	Mildenhall	1011·9	-6	SW	3	c	59	65	7	8	7	6	7-8	9+	3000
	Cranwell	1011·7	-6	SSW	3	c	55	75	7	8	6	6	7-8	10	1600
3	Birmingham	1011·3	-2	SSW	2	c	53	85	6	5	7	-	9	9+	1500
	Upper Heyford	1012·6	+2	SW'S	3	zo	53	85	6	8	3	-	7-8	9	900
4	Ross-on-Wye	1011·6	-8	S	2	c/r	53	85	6	6	1	-	7-8	10	1500
5	Hartland Point	1009·9	-20	SW	4	r	53	97	6	8	2	-	9	10	1200
	Bristol	1012·6	-10	S	2	dod	53	92	6	6	2	-	7-8	10	800
	Portland Bill	1013·0	-12	SW	4	rr	57	85	7	5	-	-	10	10	2500
	Plymouth	1012·1	-14	S'W	5	rr	58	97	6	6	2	-	9	10	400
	The Lizard	1012·5	-10	SSW	7	c	59	97	7	8	2	-	7-8	10	900
	Scilly (St. Mary's)	1008·7	-30	SW'S	5	iro	59	97	5	5	-	-	10	10	800
	Guernsey														
6	Pembroke	1008·1	-20	SSW	5	cq	58	97	7	8	-	-	9+	9+	2000
7	Holyhead	1008·9	-12	SSE	4	ido	52	92	6	5	2	-	9	10	1200
	Chester (Sealand)	1009·8	-14	SSE	1	c	55	85	6	5	-	-	9+	9+	6000
8	Manchester	1010·4	-6	S'E	2	zo	53	85	5	5	3	-	4-6	9+	1800
10	Spurn Head	1010·6	-6	SE'E	2	PR	56	85	7	8	-	-	9+	9+	3000
	Catterick	1009·8	-12	S	1	zo	51	97	5	5	-	-	10	10	1500
	Tynemouth	1011·3	-10	WSW	1	m	50	92	4	5	-	-	10	10	2200
11	St. Abbs Head	1009·0	-12	SSW	3	c	50	85	8	5	2	-	7-8	10	2000
	Leuchars	1008·0	-14	SE	3	zo	51	85	6	-	2	-	10	10	4000
12	Renfrew (Abbots I.)	1007·5	-26	SW'W	6	zo	52	75	6	5	-	-	10	10	3000
	Eskdalemuir	1008·4	-18	S	3	zo	48	85	6	7	2	-	4-6	10	2500
	Point of Ayre	1007·8	-16	SSW	3	c	55	85	7	5	2	-	4-6	10	2500
13A	Tiree	1003·2	-24	S'E	5	c	54	92	7	5	-	-	9+	9+	1800
13B	Stornoway	1005·1	-20	SSE	4	c/pr	54	75	6	5	7	7	7-8	10	1300
15	Dalwhinnie	1006·3	-20	S	3	o	46	85	6	5	1	-	7-8	10	2500
	Aberdeen	1007·9	-16	SSW	3	c	51	85	6	6	2	-	4-6	10	800
	Wick	1006·2	-20	SSW	4	c/pr	52	85	7	5	7	8	7-8	9+	1500
16	Lerwick	1008·4	-22	S'E	3	c	50	92	7	8	2	-	7-8	10	800
17	Blacksod Point	1002·3	-24	S	4	RR	54	97	6	6	-	-	10	10	<150
18	Malin Head	1003·5	-16	S'E	5	c	53	85	7	5	2	-	4-6	9+	1500
	Aldergrove	1004·6	-34	SE	3	o/d	52	92	6	5	-	-	10	10	1500
19	Birr Castle	1005·1	-20	S	2	c	58	75	8	8	1	-	7-8	10	1500
20	Valentia Obsy. †	1007·0	-16	SW'S	4	o/r	57	92	8	5	-	-	10	10	1500
	Roches Point	1007·0	-14	WSW	3	c	59	85	8	5	4	5	2-3	7-8	2500

OBSERVATIONS at 18h. G.M.T. 4th. 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)	1012·0	-16	S	3	roro	54	97	5	6	2	-	7-8	10	800	1	*
	Croydon	1012·5	-14	SSW	2	roro	54	97	5	6	2	-	9+	10	600		*
	S. Farnborough	1011·7	-16	SSW	4	roro	56	92	6	6	2	-	9	10	500	1	*
	Boscombe Down																*
	Calshot (Soton.)	1012·1	-12	SW'S	6	dd	58	92	6	5	2	-	9+	10	600	1	4
	Lympne	1015·2	-2	SW	4	dr	55	97	5	6	2	-	9+	10	100	1	§
	Manston	1015·2	0	SW	4	ddo	54	97	5	6	2	-	9+	10	300		*
2	Shoeburyness	1013·8	+2	S'W	3	rr	54	97	4	6	-	-	10	10	800	1	*
	Felixstowe	1013·7	+4	SW'S	5	iro	55	85	5	6	2	-	4-6	10	800	1	2
	Gorleston	1012·8	0	SSW	3	o	56	85	5	5	-	-	10	10	800	1	3
	Mildenhall	1011·4	-6	S'W	3	iro	54	85	6	5	2	-	4-6	10	150	1	*
	Cranwell	1010·2	-10	SSW	4	iro	53	75	6	5	7	-	9	10	1500	1	*
3	Birmingham	1008·8	-16	S	2	rf	51	92	3	6	-	-	10	10	800	1	*
	Upper Heyford	1010·1	-16	SSE	3	iro	52	97	5	6	2	-	9	10	300	1	*
4	Ross-on-Wye	1008·5	-14	S'W	2	ido	55	97	6	6	-	-	10	10	1500	1	*
5	Hartland Point	1009·7	+20	WNW	4	c	57	97	8	8	4	9	4-6	7-8	1000	1	4
	Bristol	1009·1	-20	SSW	4	iro	58	92	7	6	2	-	9+	10	700	1	*
	Portland Bill	1010·1	-16	SW	5	rr	59	85	7	5	-	-	10	10	2500	1	4
	Plymouth	1011·6	-18	W	5	c/r	50	97	6	6	2	-	7-8	9+	300		
	The Lizard	1013·5	+22	W	5	c	56	97	7	8	6	-	7-8	7-8	2400	1	4
	Scilly (St. Mary's)	1013·1	+36	WSW	5	c	57	92	7	5	-	-	9+	9+	1200	1	3
	Guernsey																
6	Pembroke	1007·7	0	W	6	c/r	57	85	7	8	7	-	7-8	9+	2500	1	2
7	Holyhead	1004·7	-10	SW	4	c	57	92	7	6	2	-	9	10	1200	1	3
	Chester (Sealand)	1006·5	-16	SE'S	3	ido	53	92	5	5	-	-	10	10	2100	1	*
8	Manchester	1007·3	-16	SSE	3	iro	52	92	4	5	-	-	10	10	1800	1	*
10	Spurn Head	1008·8	-2	SSE	2	<	54	85	6	5	2	-	4-6	10	2500	0	3
	Catterick	1006·9	-14	S'W	3	cf	52	97	3	5	2	-	7-8	10	700	1	
	Tynemouth	1007·5	-16	S	3	m	52	92	4	5	-	-	10	10	2300	1	1
11	St. Abbs Head	1005·3	-14	S	3	roro	49	97	6	5	2	-	7-8	10	2000	1	2
	Leuchars	1004·6	-20	E	1	c/r	50	92	6	5	2	-	9+	10	2200	1	*
12	Renfrew (Abbots I.)	1003·4	-28	ESE	2	ido	50	92	4	5	2	-	7-8	10	900	1	*
	Eskdalemuir	1004·6	-24	SSW	2	ropro	47	97	5	-	2	-	10	10	<150	1	*
	Point of Ayre	1003·6	-18	S'W	4	ido	54	92	7	8	1	-	9	10	1500	1	3
13A	Tiree	997·5	-14	SSW	5	rr	51	97	6	-	2	-	10	10	1200		
13B	Stornoway	1001·6	-16	SSE	5	c	52	85	6	5	7	-	7-8	10	1800	1	3
15	Dalwhinnie	1003·8	-30	SSE	3	o	46	85	6	5	1	-	4-6	19	1500	0	*
	Aberdeen	1005·0	-20	S	2	iro	50	92	6	6	2	-	7-8	10	800	1	2
	Wick	1002·5	-18	S	5	cq	51	85	6	5	2	-	7-8	10	1500	1	2
16	Lerwick	1005·0	-18	S'E	4	dd	50	97	6	8	7	-	7-8	10	800	1	*
17	Blacksod Point	1002·3	+14	WSW	5	c	52	97	7	9	-	-	7-8	7-8	450	1	3
18	Malin Head	1000·1	-20	S	3	pr	53	85	7	6	-	-	9+	9+	1300	0	2
	Aldergrove	1002·1	-14	S'W	2	iro	52	92	7	5	-	-	9+	9+	900	1	*
19	Birr Castle	1006·2	+8	SSW	2	bc/pr	51	85	8	3	-	-	2-3	2-3	1500	1	*
20	Valentia Obsy. †	1010·0	+20	W	4	bc/pr	53	65	8	6	-	-	4-6	4-6	4000	1	4
	Roches Point	1008·8	+14	W'N	4	c	58	75	8	3	-	7	2-3	7-8	2500	1	3

PAST 24 HOURS. WEATHER.

District	Stations	7h.—13h. 4th. (37)	13h.—18h. 4th. (38)	18h. 4th to 1h. 5th. (39)	1h.—7h. 5th (40)
1	London (Kew)	cmidoczo	crczoromo	crocdodocmo	cbcmo
	Croydon	bcmoczoro	rodororo	roroidomo	*
	S. Farnborough	cdoro	cdorroro	rororcbbc	bcbmoc
	Boscombe Down	cdodoirmo		bcpromo	bcmo
	Calshot (Soton.)	ororoiromo	odrmmo	ddmobcmo	cmobmoc
	Lympne	cmRpro	ciromdr	crodorr	bcciromoc
	Manston	cpro	cprododo	*	bcmobc
2	Shoeburyness	dodombc	crororrmc	crrcbc	bcbbcmo
	Felixstowe	idoprcy	czoiromo	crocidomo	cmobmob
	Gorleston	cproc	cozo	orrcq	cbc
	Mildenhall	cmobcmoc	czociromo	crorpocmo	cmobmob
	Cranwell	cmoc	czoiro	iro, bccmo	cmo, bmob
3	Birmingham	fororc	comiro	foir	obc
	Upper Heyford	cmoDDfdodo	cddoromo	*	bmobcb
4	Ross-on-Wye	rofcmoro	cororo	rocbc	bc
5	Hartland Point	rcro	rridc	crpbc	bcc
	Bristol	cirododo	cddorr	cbcb	bbcprocpro
	Portland Bill	orr	orr	bcc	c
	Plymouth	cddrrido	cmorrido	cbccbc	bccbcc
	The Lizard	rrc	cdmc	cbc	bcc
	Scilly (St. Mary's)	rrcro	croidc	cpoqbc	bcc
	Guernsey				
6	Pembroke	r	r	bcq	bcproc
7	Holyhead	roroido		cpromob	bmobc
	Chester (Sealand)	dfroroc		cmorqb	bbzobc
8	Manchester	dffforf	cmocrc	irorbcmo	bbc
10	Spurn Head	c	c	orocq	bcbw
	Catterick	cfdodoroo		ofirb	bzobpro
	Tynemouth	oidm		oirombc	bc
11	St. Abbs Head	c		omoro	bc
	Leuchars	ociro	cmororocm	crrmocmo	bccpromobc
12	Renfrew (Abbots I.)	cffmoido	cmoiriroid	iRrriro	cprPRpro
	Eskdalemuir	idczo	ddrr	rr	rrprr
	Point of Ayre	c	cido	b	
13A	Tiree	c	oiro	cprbc	cpro
13B	Stornoway	ciropro	cpro	crrbc	bccpr
15	Dalwhinnie	o	o	•	cir.
	Aberdeen	iroc	czoir	crrmo	cbciro
	Wick	cproc	pocq	cprmo	cqmoc
16	Lerwick	ciddd	ciddd	cprir	cir
17	Blacksod Point	rr	bcc	probccq	bcq
18	Malin Head	czozc	cproprc	prlc	cprobcc
	Aldergrove	iroddmo	ddmoRc	irobcbw	bcwcbc
19	Birr Castle	oiroc	bcpr	b	bbcc.
20	Valentia Obsy. †	crorirc	cprqbc	bbcprobc	bcprobciro
	Roches Point	c ⊕	bcc	b	cbcb

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.

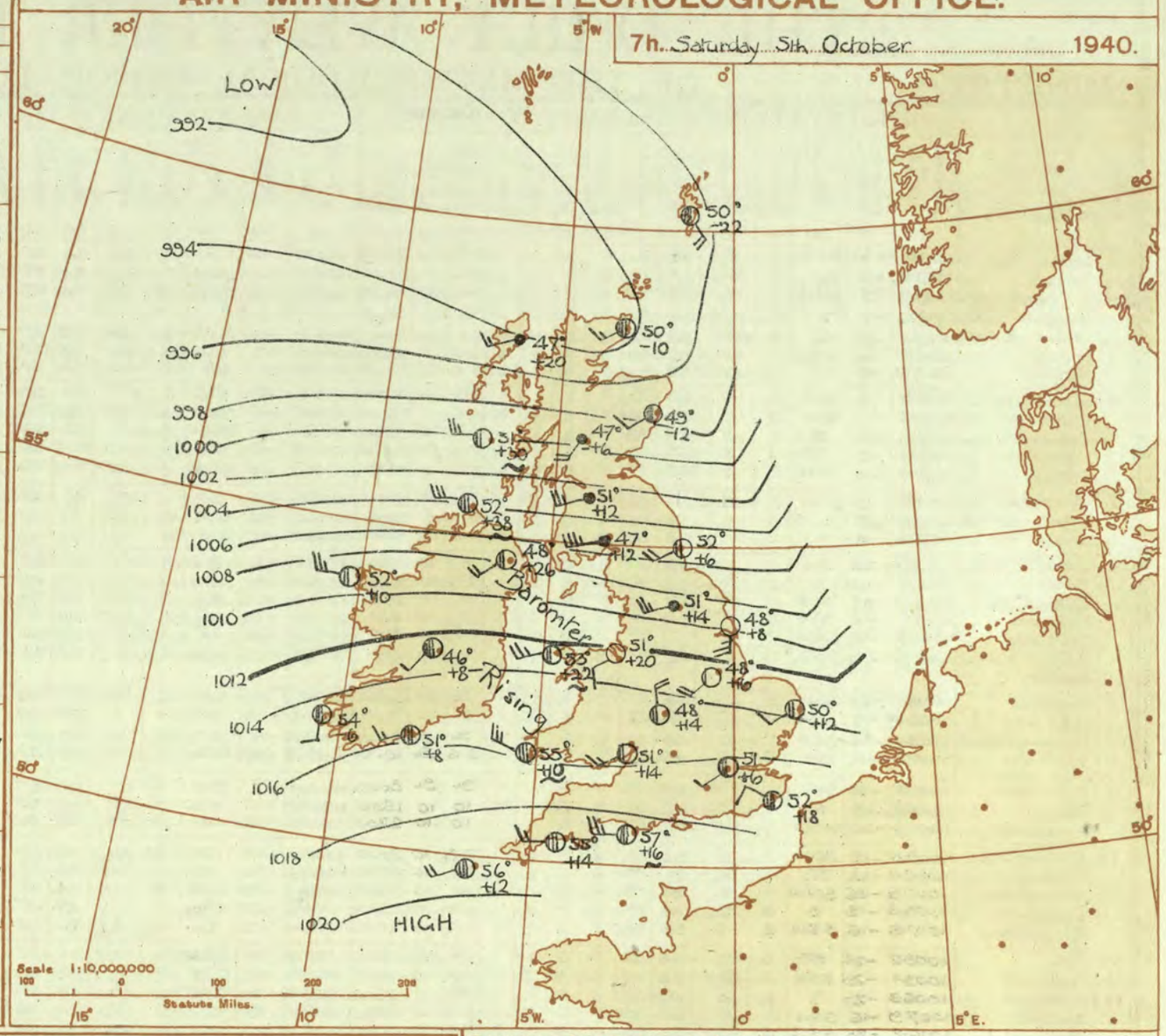
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 4th. Oct.			18h. G.M.T.			01h. G.M.T. 5th. Oct.			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	05662	15328	62	22635	16568	52	02654	13365	63	02645	15266
115	52	03735	12228	52	81635	20238	52	81744	12387	52	02854	12385
203	5-	02846	16326	5-	81746	12326	83	02845	12456	5-	81838	20468
206	5-	02768	16228	5-	02756	18226	5-	62755	00065	53	10754	00065
210				52	02667	14468	52	22706	00068			
220	52	03744	19428	62	66526	15468				84	01844	27414
230	5-	61668	12168	52	22746	14268	5-	22838	51368	86	81747	55587
245	52	05665	18328	52	22766	16468	5-	22645	20465	83	01854	20514
260	52	02775	16228	52	62555	12268	80	01755	20315	36	01848	22513
277	52	21765	15568	62	52637	15658	50	01854	53564	87	02855	56565
279	--	08458	00028							**	01844	24514
285	5-	22738	08168							9-	51747	24567
288	5-	21488	18368				50	05652	18362	80	00851	**
273										37	61662	22563
301	53	05656	17167	52	51847	15458	8-	01754	55584	8-	01754	57514
321	5-	05668	18328	57	05646	18388	5-	05672	20462	03	00790	53401
299				3-	05546	20326	5-	22548	20368			
292	5-	05548	17258	5-	08448	16268	50	05652	22362	20	81843	55413
310	--	48209	20349	--	57109	26427				--	01743	20413
316			.	62	64434	16268	00	05590	22460	03	05590	18302
333	52	61745	16568	52	02744	20358	50	00752	24512	10	01854	24515
334												
340	5-	05566	16326	62	51435	14458	04	00890	16181			
136	86	02863	20316	5-	02658	18328				03	01890	20412
336	--	81632	20388	--	52643	20458				--	02853	20446
350	53	22644	18368	62	22648	18468						
368	02	64548	15268	02	64528	49468				84	02744	23487
379	61	31634	20228	62	21524	18358				00	05690	20314
390	83	25545	22327	62	57227	20268	53	05544	22454	03	05690	24413
382	62	62643	19368	62	61636	16368				07	01790	20204
438	8-	02758	24428							5-	02758	24625
430	02	31648	22268	62	22537	20468	53	05544	22454	29	02752	24427
409	02	62728	18328	55	02733	56565	50	02743	24515	57	02744	24517

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 5th October
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh westerly wind, backing south; bright periods local showers at first, becoming overcast with rain spreading from the west tonight. Average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Fresh westerly wind backing south veering southwest to west later; strong perhaps gale later on coasts; fair at first, becoming overcast with rain spreading from west later today; bright intervals and showers tomorrow, average temperature or rather mild.
10 N.E. England 11 S.E. Scotland	Fresh or strong westerly wind backing south; bright intervals and showers today; overcast with rain later; average temperature.
12 S.W. Scotland & Isle of Man.	As 4-9
13 A. W. Scotld. / B. N.W. Scotland.	Moderate southwest to west wind backing south later; cloudy with rain at times; average temperature.
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	Wind southwest to south fresh veering west later; strong or gale on coasts; overcast with rain at first, bright intervals and showers later; average temperature.

GENERAL INFERENCE.

A depression off North Scotland is moving slowly northeast and another depression about 600 miles westward of Ireland will advance quickly eastwards. There will be bright periods and local showers in most districts at first, but rain will soon commence in West Ireland and spread rapidly across the country, reaching eastern districts of England tonight.

FURTHER OUTLOOK.

Unsettled generally, strong winds or gales from between south and west. Rain at times in most areas but some fair periods.

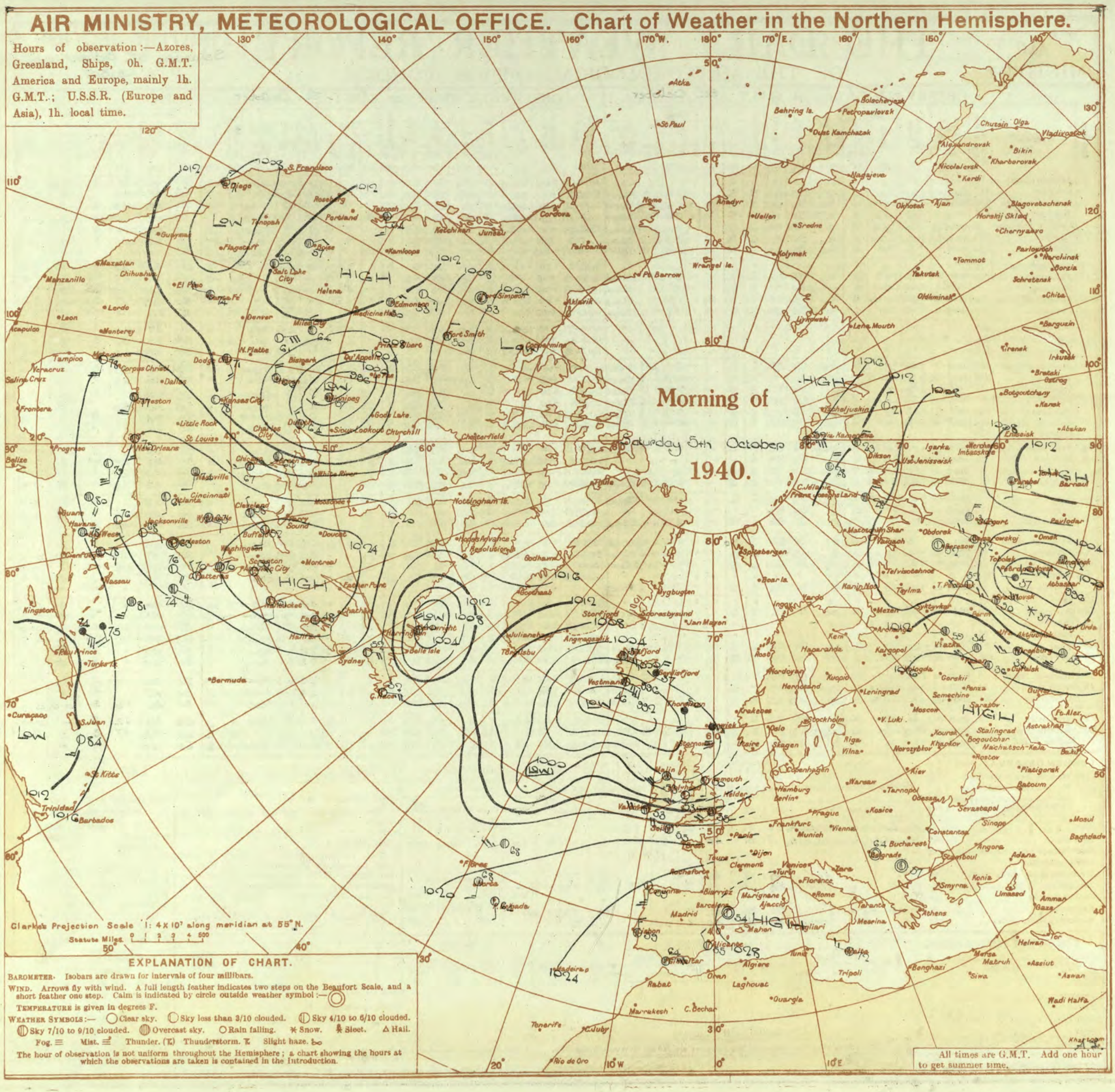
Gale warning issued at 0025 on 5/10/40 in districts 12 and 17; at 0525 on 5/10/40 in district 13(b) and at 0900 on 5/10/40 in district 19.

Forecasts issued at 10.30 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 5th October, 1940.

No. 28,807

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	1014.1	+20	SW	4	zo	55	85	5	5	-	-	7-8	7-8	3000
	S. Farnborough	226	1014.1	+18	WSW	4	bc	54	92	7	5	-	-	4-6	4-6	2000
	Boscombe Down	417	1014.1	-18	W'S	4	bc/pr	54	85	6	5	-	-	2-3	2-3	2000
	Calshot (Sthmtn.)	8	1014.5	+10	W'S	4	zo	58	92	6	5	-	-	9+	9+	3000
	Lympne	346	1014.9	+6	WSW	4	zo	54	97	6	5	-	-	2-3	2-3	1200
	Manston	154	1014.1	+8	SW	4	zo	57	92	6	5	1	-	4-6	7-8	12000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1011.5	+12	W'S	6	zo	57	92	6	5	-	-	9+	9+	2000
	Gorleston	5	1009.1	-6	WSW	4	c	54	85	6	6	-	-	9	9	1500
	Mildenhall	19	1010.2	+22	WSW	5	zo	56	85	6	5	2	-	7-8	9	3000
	Cranwell	240	1008.8	+14	SW	4	zo	53	85	6	5	-	-	7-8	7-8	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408														
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1014.7	+20	W	5	bc	55	75	8	2	-	-	2-3	2-3	1500
	Bristol	209	1014.0	+22	WSW	4	bc	*	*	7	5	-	-	2-3	2-3	1800
	Portland Bill	32	1015.1	+8	W	5	c	56	92	8	5	-	-	7-8	7-8	4000
	Plymouth	82	1016.6	+20	W'N	4	bc	55	85	7	5	-	-	4-6	4-6	2000
	The Lizard	240	1017.5	+16	W	5	bc	55	85	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1017.6	+18	W'N	4	bc	55	85	7	5	4	-	4-6	4-6	1500
	Guernsey	175														
6	Pembroke	142	1013.3	+20	W'S	7	bcq	56	85	7	2	-	-	2-3	2-3	2500
7	Holyhead	26	1009.0	+20	SW'W	5	b	53	85	6	-	-	-	0	0	-
	Chester (Sealand)	16	1009.4	+22	WSW	3	zo	50	75	6	-	-	-	0	0	-
8	Manchester	70	1008.8	+26	SW'W	4	zo	51	85	6	5	-	-	2-3	2-3	2500
10	Spurn Head	29	1007.0	+4	SW'W	6	cq	53	92	6	5	-	-	9+	9+	2500
	Catterick	175	1005.1	+6	W	3	b	50	85	7	-	-	-	0	0	-
	Tynemouth	108	1004.1	0	S	3	bc	50	85	6	2	-	-	4-6	4-6	2200
11	St. Abbs Head	280	1000.3	-18	W	4	bc	49	85	7	5	-	-	4-6	4-6	2000
	Leuchars	36	999.4	-12	SW	3	zo	49	92	6	5	-	-	4-6	4-6	2200
12	Renfrew (Abbots I.)	19	1000.9	+2	SW'S	4	iro	51	85	6	5	-	-	9+	9+	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1004.6	+14	W	6	b	51	92	8	5	-	-	Tr	Tr	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	995.5	-26	SSE	4	bc	51	92	7	5	-	-	4-6	4-6	1400
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	997.5	-20	S	5	cq	51	85	6	5	7	-	7-8	10	1500
16	Lerwick	156	1000.0	-28	SSE	6	ir	51	92	7	8	2	-	7-8	10	800
17	Blacksod Point	18	1006.6	+26	W'N	6	bcq	52	75	7	9	-	-	7-8	7-8	800
18	Malin Head	84	999.1	-6	SW'W	6	c/pr	53	85	7	8	-	-	9	9	4000
	Aldergrove	268	1004.6	+10	SW'S	5	bc	49	85	8	5	-	-	2-3	2-3	3800
19	Birr Castle	173	1010.0	-16	SSW	2	b	48	85	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1014.4	+20	W'N	4	bc/pr	53	75	8	3	-	-	2-3	2-3	2500
	Roches Point	22	1013.9	+20	W	3	b	50	85	8	5	-	-	1	1	2500

OBSERVATIONS at 7 hr. 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)	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 4th Hrs. (36)
London (Kew)	1016.7	+14	SW	3	zo	51	85	6	5	-	6	4-6	4-6	2500	1	*	52	51	49	2	0.6	1.6
Croydon	1016.5	+6	SW	1	bc	51	85	7	-	7	6	0	4-6	-	1	*		51	48		2	2.5
S. Farnborough	1017.2	+14	WSW	3	c	50	85	8	1	7	8	Tr	9	2500	1	*	57	49	45	3	1	0.3
Boscombe Down	1017.8	+20	WSW	3	c	51	85	7	5	7	-	4-6	9+	3500	1	*		49	46		0.4	0.0
Calshot (Sthmtn.)	1017.7	+14	W'S	3	c	54	85	7	1	7	8	2-3	9	2500	1	2	58	52	49	5	1	0.0
Lympne	1017.7	+18	WNW	6	c	52	92	7	-	7	-	0	7-8	-	1	§	57	50	47	2	2	2.5
Manston	1018.1	+20	W	3	c	52	85	7	5	-	9	4-6	7-8	3000		*						
Shoeburyness	1016.7	+16	SW	3	bc	53	85	6	-	9	9	0	4-6	-	1	*	61	52	49	2	1	2.5
Felixstowe	1015.3	+18	W'S	4	bc	51	85	7	-	3	8	0	2-3	-	1	3	61	51	49	0.1	1	1.2
Gorleston	1013.9	+12	SW	2	bc	50	85	7	-	4	-	0	2-3	-	1	2	58	50	45	0.5	3	1.1
Mildenhall	1014.2	+12	SW'S	4	bc	49	85	7	-	7	1	0	2-3	-	1	*	60	49	41	0.1	3	2.5
Cranwell	1012.2	+16	SW	4	b	48	85	8	-	-	1	0	Tr	-	1	*	57	45	44	Tr	2	2.1
Birmingham	1014.7	+14	WSW	4	bc	48	85	8	1	-	9	1	4-6	1500		*	54	47	42	1	1	0.1
Upper Heyford	1015.5	+16	SW	3	b	45	92	7	-	4	2	0	1	-	1	*	54	45	36	3	2	*
Ross-on-Wye	1015.8	+14	SW'W	3	bc	51	75	8	7	-	6	1	4-6	2500	1	*	55	48	43	c	0.4	0.1
Hartland Point	1016.9	+14	W	5	c	56	75	8	2	4	3	2-3	7-8	2000	1	4	59	53	50	8	1	0.0
Bristol	1017.1	+18	SW	3	c/pr	51	92	7	7	3	4	4-6	9+	1800	1	*	58	50	45	7	1	0.2
Portland Bill	1018.3	+16	W	5	c	57	92	8	5	-	-	9	9	4000	1	4	59	55	*	8	0.5	*
Plymouth	1018.8	+14	W	3	c	55	85	7	2	0	-	2-3	9+	1600	0	2	59	50	50		Tr	0.0
The Lizard	1019.3	+12	W'S	5	c	55	92	8	8	6	-	7-8	7-8	2000	0	4	59	54	*	3	-	0.3
Scilly (St. Mary's)	1019.5	+12	WSW	4	c	56	92	7	5	4	4	4-6	9	1500	1	3	60	54	*	1	0.3	1.5
Guernsey																						
Pembroke	1015.4	+10	W'N	7	cq	55	85	7	8	7	-	2-3	9+	1200	1	4	59	54	*	2	0.2	0.0
Holyhead	1012.2	+22	WSW	5	bc	53	75	8	5	3	1	2-3	4-6	2500	1	4	57	52	49	0.1	1	0.0
Chester (Sealand)	1012.1	+20	WSW	2	bc	51	75	7	7	-	-	4-6	4-6	2800	1	*	56	49	37	1	1	0.2
Manchester	1011.0	+12	SW'W	3	zo	47	85	6	5	-	-	4-6	4-6	2600	1	*	56	45	38	1	2	0.0
Spurn Head	1010.4	+8	S	5	b	48	85	7	-	-	-	0	0	-	1	3	60	47	*	-	2	2.2
Catterick	1007.3	+14	WSW	5	pro	51	75	8	2	-	-	2-3	2-3	2500	1	*	52	49	44	1	2	0.0
Tynemouth	1004.4	+6	WSW	4	bc	52	75	7	2	-	-	2-3	2-3	2800	1	1	53	50	45	1	1	*
St. Abbs Head	999.9	+2	W	5	bc	49	85	8	4	4	6	2-3	4-6	2000	0	3	50	46	*	1	6	*
Leuchars	998.4	-2	WSW	6	bc	50	85	7	5	-	-	2-3	2-3	2500	1	*	53	47	43	0.3	9	0.0
Renfrew (Abbots I.)	1001.7	+12	WSW	5	pr	51	85	7	8	-	-	9+	9+	1800	1	*	52	49	45	0.5	7	0.0
Eskdalemuir	1004.0	+12	W'S	7	rr	47	92	5	-	2	-	10	10	<150	1		49	43	44	1	10	0.0
Point of Ayre																			*	0.5		
Tiree	999.7	+30	W	5	bc	51	92	8	8	-	-	4-6	4-6	1800	0	4	52	50	*		4	0.5
Stornoway	994.9	+20	WSW	3	pr	47	92	8	5	7	-	7-8	9	1500	1	2	57	54	*	Tr	4	0.2
Dalwhinnie	997.3	+6	SSW	4	ir	47	85	7	6	-	-	9+	9+	1500	1	*	47	44	38	-	11	0.0
Aberdeen	996.0	-12	SW'W	2	c/r	49	85	7	7	7	-	Tr	7-8	4000	1	1	52	46	39	0.6	5	0.0
Wick	993.9	-10	SW	3	c	50	85	8	5	6	8	7-8	9	1500	1	2	53	48	*	Tr	Tr	*
Lerwick	995.7	-22	SE'S	4	c	50	97	7	8	7	-	7-8	9+	800	1	*	51	49	*	1	2	0.0
Blacksod Point	1009.3	+10	W	5	bcq	52	75	8	2	-	-	2-3	2-3	1500	0	3	57	50	*	7	1	*
Malin Head	1004.2	+38	W	6	c	52	75	8	4	6	-	4-6	7-8	4000	0	4	54	47	*	4	1	1.1
Aldergrove	1008.4	+26	SW'W	4	bc	48	75	8	5	-	-	4-6	4-6	2000	1	*	54	46	43	5	0.2	0.0
Birr Castle	1012.9	+8	SSW	1	c	46	85	8	5	-	5	2-3	9	2500	1	*	58	45	42	5	-	0.0
Valentia Obsy.	1014.2	-6	S	2	c/r	54	85	8	-	7	-	0	10	-	0	3	60	52	47	3	1	2.8
Roches Point	1015.8	+8	W'S	3	c	51	85	8	5	7	-	4-6	7-8	2500	1	3	60	49	*	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	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	cmoidocz	crczorom	crdodomo	52	51	49	2	0.6	1.6	*	*	7
Croydon	217	bcmoczor	rodororo	rooridomo		51	48		2	2.5	*	*	8
Greenwich (Royal Observatory)	149												
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	59	51	46	2			81	79	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	58	50	45	2	1	1.7	94	75	*
Camden Square	110			*						*	*		*
Kensington	80	bccpc	cpc	*	57	51	42	2	1		97	77	*
Hampstead Observatory	450	bc	or	orbc	55	48	44	4	0.4		*	87	*

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.
0.1	7-8h 4th	<0.1	19-20h 4th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 6th October, 1940.

No. 28808

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)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1017·9	-2	WSW	2	c	59	65	7	8	7	8	4-6	9	2500
	Croydon	1017·6	-8	SW	3	zo	58	65	7	8	7	6	4-6	7-8	2000
	S. Farnborough	1018·4	-4	WSW	5	c	61	55	8	7	7	8	4-6	9+	3000
	Boscombe Down	1018·3	-2	WSW	5	c	59	65	8	5	7	7	2-3	10	3000
	Calshot (Soton.)	1019·0	-2	WSW	5	c	61	65	8	1	7	2	4-5	9+	2500
	Lympne	1018·9	-4	SW	3	c	60	65	8	1	-	2	4-6	7-8	2500
	Manston	1018·5	-10	WSW	4	c	62	65	7	1	-	8	4-6	7-8	2000
2	Shoeburyness	1017·5	-8	W'S	4	bc	60	65	8	1	1	2	4-6	4-6	4000
	Felixstowe	1016·6	-2	W'S	5	c	60	55	7	1	4	8	2-3	7-8	3500
	Gorleston	1015·6	+4	W	5	bc	57	65	7	2	7	-	4-6	4-6	3000
	Mildenhall	1015·7	0	WSW	6	bc	61	45	8	1	-	8	2-3	4-6	3000
	Cranwell	1014·0	+2	W'S	5	c	59	45	7	8	4	6	7-8	9	2500
3	Birmingham	1015·3	+4	WSW	4	c	57	45	8	1	-	6	2-3	7-8	2500
	Upper Heyford	1016·5	-2	WSW	4	c	59	55	8	2	4	6	4-6	9	2500
4	Ross-on-Wye	1016·3	-4	W'S	5	c	59	65	7	7	1	-	2-3	9+	2500
5	Hartland Point	1016·8	-10	W	5	c	58	92	8	5	3	9	2-3	7-8	2000
	Bristol	1018·1	-6	WSW	3	c	59	65	8	7	7	-	4-6	9+	3000
	Portland Bill	1019·5	+6	WSW	5	c	59	92	8	4	4	-	4-6	7-8	4000
	Plymouth	1019·5	-10	WSW	4	c	60	85	7	8	7	6	1	9	1800
	The Lizard	1019·8	-10	SW	4	bc	61	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1019·0	-16	SW'S	5	c	60	88	7	5	7	4	2-3	9+	2200
	Guernsey														
6	Pembroke	1015·7	-6	SW	6	cq	58	85	7	8	2	-	7-8	10	2000
7	Holyhead	1012·7	-6	SW'S	4	rr	55	85	6	6	2	-	7-8	10	900
	Chester (Sealand)	1013·5	-2	WSW	3	c	60	55	8	7	3	2	4-6	9+	2800
8	Manchester	1012·9	+4	W'S	5	bc	56	65	8	1	3	-	4-6	4-6	2800
10	Spurn Head	1012·3	+4	SW'W	5	cq	58	55	7	2	4	2	4-6	9	4000
	Catterick	1010·2	+14	W	5	c	54	65	8	8	4	6	4-6	7-8	2500
	Tynemouth	1007·2	+8	W	6	bcq	55	65	8	2	3	-	4-6	4-6	3200
11	St. Abbs Head	1004·2	+28	SW	6	cq	53	75	8	5	7	-	4-6	7-8	2000
	Leuchars	1002·6	+22	W	5	c	56	65	8	2	-	6	4-6	9	3500
12	Renfrew (Abbots I.)	1005·5	+14	W'S	6	c	54	75	8	8	1	-	2-3	10	2000
	Eskdalemuir	1006·9	+14	W	6	c	51	65	7	5	1	-	7-8	10	1500
	Point of Ayre	1010·3	+8	W'S	5	c	56	85	8	5	1	-	2-3	10	1500
13A	Tiree	1003·4	0	WSW	4	c	53	85	7	5	1	-	7-8	10	1500
13B	Stornoway	999·3	+10	WSW	5	pr	53	97	7	8	-	-	9+	9+	800
15	Dalwhinnie	*	+18	WSW	4	ir	48	85	7	4	5	-	7-8	9+	1500
	Aberdeen	1000·5	+28	WNW	4	bc	57	65	8	7	-	8	4-6	4-6	4000
	Wick	997·8	+22	NW	4	bc	53	75	8	8	7	8	4-6	4-6	2500
16	Lerwick	995·0	-2	SW	3	c	51	92	7	8	7	-	7-8	9+	800
17	Blacksod Point	999·8	-34	SSE	6	rr	55	97	6	6	-	-	10	10	<150
18	Malin Head	1005·6	-6	SSW	4	pr	50	75	7	6	-	-	9+	9+	1500
	Aldergrove	1008·3	-18	SSW	3	iro	51	75	7	6	2	-	tr	10	2000
19	Birr Castle	1007·7	-44	S	2	rr	54	97	7	6	2	-	7-8	10	1500
20	Valentia Obsy. †	1007·8	-40	SSW	7	rr	58	97	6	6	2	-	9+	10	800
	Roches Point	1012·0	-24	SW	6	ir	58	92	7	6	2	-	7-8	9+	1500

OBSERVATIONS at 18h. G.M.T. 5th 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)	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)
London (Kew)	1016·6	-10	SSW	4	c/r	57	75	6	5	1	-	7-8	10	1500	1	*
Croydon	1017·0	-6	SSW	3	c	57	85	6	5	7	-	4-6	10	4000	1	*
S. Farnborough	1017·1	-8	SW	5	c	57	75	7	5	7	-	4-6	9+	5000	1	*
Boscombe Down	1016·1	-16	SSW	5	c	56	85	8	5	-	7	7-8	10	5000	1	*
Calshot (Soton.)	1017·6	-10	WSW	5	c	58	85	7	-	7	-	0	10	-	1	3
Lympne	1018·9	0	WSW	3	c	55	85	8	-	7	8	0	9+	-	1	§
Manston	1018·7	+2	SW'W	3	zo	57	85	6	5	7	-	4-6	9+	5000		*
Shoeburyness	1017·1	-6	SW	3	c	57	75	7	-	7	-	0	9+	-	1	*
Felixstowe	1016·8	-4	SW	4	zo	57	75	6	6	-	-	10	10	5000	1	2
Gorleston	1015·7	+2	SW'S	3	c	57	65	7	5	-	-	9+	9+	2200	1	2
Mildenhall	1014·6	-8	SW'S	3	c	57	65	7	5	7	-	4-6	10	4000	0	*
Cranwell	1012·7	-14	SW	4	c	55	65	7	5	-	-	10	10	2500	0	*
Birmingham	1012·2	-20	SW	3	c/r	56	75	8	5	2	-	9+	10	800	1	*
Upper Heyford	1014·7	-16	SW	3	iro	59	85	8	5	7	-	4-6	10	1800	1	*
Ross-on-Wye	1013·4	-20	S'W	3	c	57	65	8	5	2	-	7-8	10	2500	1	*
Hartland Point	1012·8	-24	WSW	6	c	58	92	8	5	7	-	4-6	10	2000	1	4 *
Bristol	1015·5	-12	SW	3	c	57	65	8	-	7	-	0	10	-	1	
Portland Bill	1017·7	-8	SW	5	c	59	92	8	5	-	-	10	10	4000	1	4
Plymouth	1016·7	-22	SW	5	c	58	85	6	7	7	8	4-6	9	1800	0	4
The Lizard	1017·2	-8	SSW	5	c	57	92	7	5	2	-	9	10	1500	0	4
Scilly (St. Mary's)	1015·6	-20	SW'S	5	c	58	92	6	5	2	-	7-8	10	1500	1	3
Guernsey																
Pembroke	1010·8	-20	SW	7	cq	58	92	7	8	2	-	7-8	10	1500	1	4
Holyhead	1005·0	-42	SSW	6	rr	56	92	6	6	2	-	7-8	10	700	1	4
Chester (Sealand)	1008·4	-38	S	4	iro	56	75	7	-	2	-	4-6	10	3000	1	*
Manchester	1009·1	-32	S'W	4	roro	53	92	6	5	2	-	2-3	10	1200	1	*
Spurn Head	1010·9	-6	S	3	c	56	65	7	5	2	-	4-6	9+	4000	0	1
Catterick	1007·0	-28	SSW	3	ddo	50	92	7	5	2	-	4-6	10	2000	0	
Tynemouth	1007·5	-16	SW	4	iro	52	75	6	-	2	-	10	10	2800	1	1
St. Abbs Head	1004·0	-12	SSW	3	iro	50	75	8	5	-	-	10	10	2000	1	2
Leuchars	1002·3	-14	SW	3	roro	50	97	6	-	2	-	10	10	1500	1	*
Renfrew (Abbots I.)	999·9	-58	E'S	3	RR	47	92	6	3	2	-	7-8	10	1800	1	*
Eskdalemuir	1003·0	-40	SSW	2	rr	44	97	5	-	2	-	10	10	220	1	*
Point of Ayre	1001·7	-44	SWW	6	rr	55	92	7	6	2	-	7-8	10	800	1	3
Tiree	994·1	-60	ESE	5	RR	47	97	6	-	2	-	10	10	800	1	5
Stornoway	997·3	-20	S	3	c	49	75	8	5	7	7	1	10	2500	1	2
Dalwhinnie	*	-26	S	2	iro	44	85	7	4	1	-	4-6	10	1500	1	*
Aberdeen	1001·1	-4	WSW	3	c	53	65	7	5	2	8	1	10	4000	0	2
Wick	998·6	+2	WSW	3	bc	49	85	8	8	7	8	2-3	4-6	2500	1	2
Lerwick	995·6	+4	NWW	4	c	50	92	7	8	7	-	4-6	9	800	1	*
Blacksod Point	993·1	-34	SW	8	fs	60	85	6	3	-	-	4-6	4-6	800	1	5
Malin Head	992·3	-68	SSE	5	rr	54	97	5	9	-	-	9+	9+	800	0	4
Aldergrove	997·5	-72	S	5	roro	54	92	6	6	2	-	9+	10	300	1	*
Birr Castle	1000·9	-30	S	5	rr	58	92	7	6	2	-	4-6	10	800	1	*
Valentia Obsy. †	1002·8	-26	SSW	7	roro	60	92	6	6	-	-	10	10	800	1	5
Roches Point	1005·6	-36	SW'S	6	rr	59	92	6	6	2	-	7-8	9+	1500	1	5

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 5th. (37)	13h.—18h. 5th. (38)	18h. 5th to 1h. 6th. (39)	1h.—7h. 6th. (40)
London (Kew)	bcmoc	cjdroczo	czo	cmroro
Croydon	czo	c	cmo	r
S. Farnborough	cj	c	croromoc	iroidroc
Boscombe Down	cidoc	c	croro	ciro
Calshot (Soton.)	c	c	ccroromo	cidmocm
Lympne	c⊕c	c	cmido	r
Manston	bcc	c	cmo	
Shoeburyness	bccbc	bcc	ceproc	ccproc
Felixstowe	bmocj	cjbmo	oidoiromo	oroo
Gorleston	bcq	bcqjc	oroo	oircq
Mildenhall	bbccbc	bcjcjc	crorrm	crrirom
Cranwell	bcmocj	c	idoiroczo	cproimoc
Birmingham	bc	bcc	oiro	orroc
Upper Heyford	bcc	r	crorirro	crorоddm
Ross-on-Wye	cbcc	ccqdoc	cqido	iroor
Hartland Point	c	cr	rrroo	ororr
Bristol	cpre	circ	ciroirq	crorrdrq
Portland Bill	c	c	co	orr
Plymouth	c	c	comjirocm	cmirocm
The Lizard	cbc	c	c	cpro
Scilly (St. Mary's)	c	c	cido	cidoc
Guernsey				
Pembroke	cq	cpcq	cmjirq	oirodf
Holyhead		crrmoc	cromb	bbcc
Chester (Sealand)	bcjc	irq	croqmb	b,c
Manchester	cbcj	bcjcmrr	cmorr	bczoc
Spurn Head	cq	c	cir	cq
Catterick	cproc	cdod	dormbc	bcbbc
Tynemouth	bcq	bccqciro	oirobc	bbc
St. Abbs Head	bccq	ciroo	cbc	bccq
Leuchars	bcbic		cmroRro	cmoiodbc
Renfrew (Abbots I.)	cbccproc	cproroR	RRrrpro	pr
Eskdalemuir	roroc	corro	rrRR	RRoro
Point of Ayre	c	rrq	cbc	c
Tiree	cprc	r	Rirc	robc
Stornoway	cPRq	cpr	crr	crr
Dalwhinnie	cbcir	ciroo		cir
Aberdeen	bc	bcc	crr	ciroc
Wick	bcPR		bcrrq	rrqid
Lerwick	cprir	cpro	cpro	cprir
Blacksod Point	rrq	cbcq	cq	bcc
Malin Head	cjpc	crrc	crrcproq	cprocproc
Aldergrove	bccro	rrmroro	roidmc	cbcc
Birr Castle	crr	cpr	b	bcorr
Valentia Obsy. †	ciroccro	rrocrr	roroirobc	bccroroiR
Roches Point	cir	rr	rrbc	irrr

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. • r₀, 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.

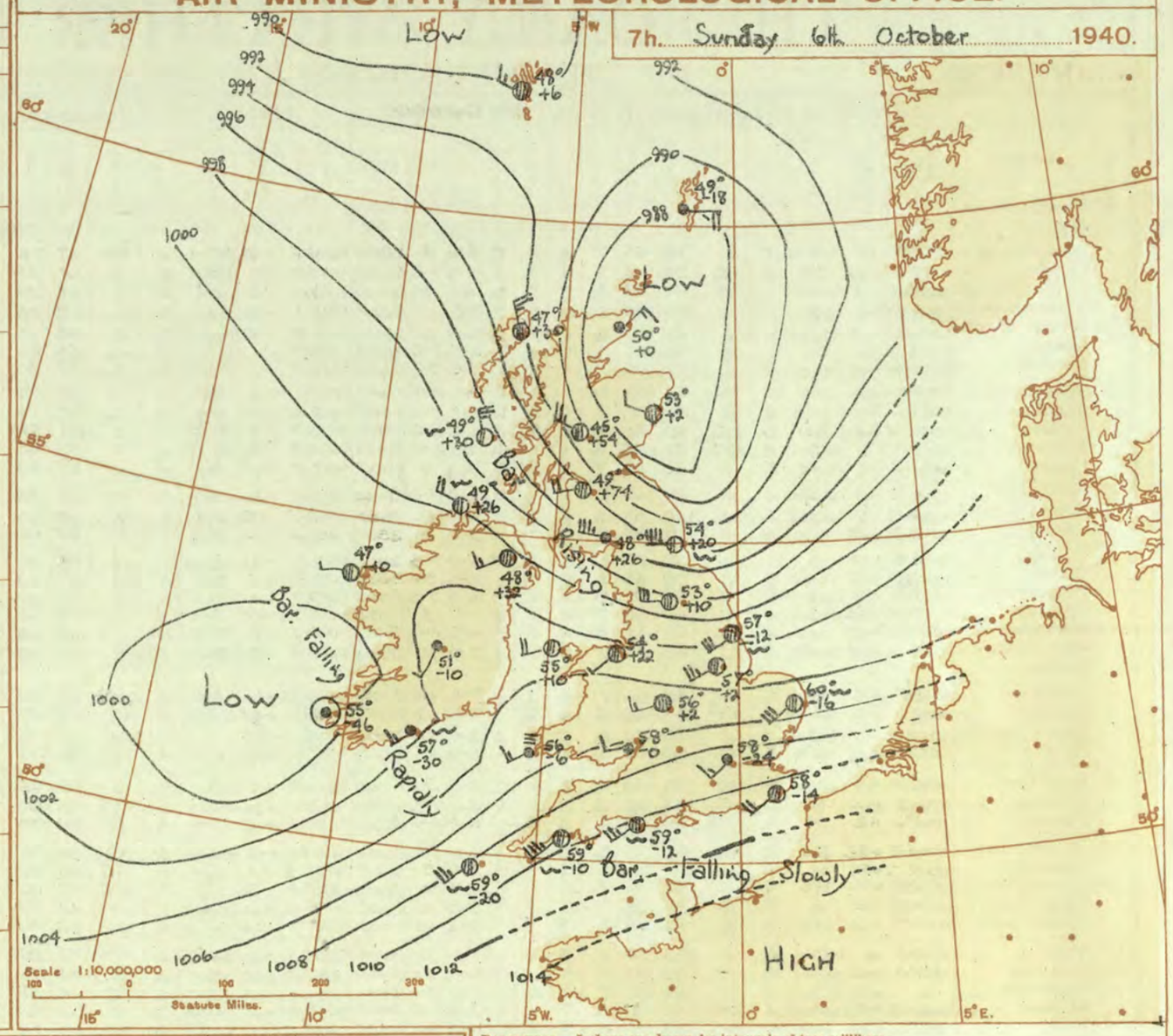
COLUMN 29.—STATE OF GROUND.

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 6th October 1940.



Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 5th Oct.				18h. G.M.T.				01h. G.M.T. 6th Oct.				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
108	87	02814	24485						52	64646	16118		62	61668	31468
115					52	81724	57687		87	81744	12487		83	64744	30588
203	85	81835	22466										5-	81838	65668
206	8-	01853	24385		57	02854	24228		5-	22743	00068		5-	61847	25467
210									5-	22847	08267		6-	21948	57568
220					62	66735	28268						84	02855	29526
230									8-	63538	53568		8-	02845	37568
245	86	01854	57515						52	05641	00068		58	01754	22464
260	81	25754	22484		02	64790	22268		80	01854	20514		9-	02845	22615
277	51	02853	54528		62	62625	50668		51	14665	87666		8-	81847	23487
279	-	02758	53628						--	05654	55714		--	05648	53628
282	-	02846	24716		6-	61638	18368								
284	24	02858	55616		52	61757	18428		5-	62648	53568		50	02852	55668
293													86	01664	15168
307	73	02864	57515		62	64646	51468		5-	01745	55665		87	02855	24526
328	87	02765	56426		52	01656	18468		50	22665	53565		57	02772	58627
299					5-	64548	22468		5-	22548	53668		57	01744	22715
298	82	02855	22486		52	62664	18968		52	62646	51568		50	14853	20765
310	-	01644	24614												
316	24	01764	22414		62	62543	20468		6-	61648	51468				
332	62	64744	20468		62	02645	53568		5-	64645	53766		57	02953	24326
334															
340	27	02853	22515		57	61854	20568		57	61745	53767		58	02854	20465
136	53	01763	21514						5-	61668	20668		57	02847	20868
336	--	03853	28628		--	62638	20668								
356	80	02754	53425		57	61756	20428						62	58727	20488
368	87	02755	23487		57	61754	23568						52	64526	21468
379	2	02755	22426		57	22754	20468		62	62646	20568		6-	54528	22558
390	13	02753	24426						5-	62646	16466		62	52526	20558
382	17	02855	22427		62	22754	18466		52	22746	18568		62	52626	19558
438	81	02754	24516										8-	14748	24618
439	27	02752	57527		57	05683	22428		6-	62638	53668		6-	61648	53668
409	57	02853	20428		02	02778	50628		52	61637	20768		52	02636	18568

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th October 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Strong southwest wind, gale on coast and at exposed places inland, backing south veering west later and decreasing. Overcast with rain at first, fair periods later: mild at first average temperature later.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light southeast or variable becoming fresh or strong west to northwest later; dull with rain at first, bright intervals and showers later, average temperature.
10 N.E. England 11 S.E. Scotland	Strong northwest wind gale in exposed places decreasing to moderate or light but later becoming west to northwest fresh or strong; cloudy, rain at times, bright intervals and local showers later; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland	Strong northwest wind, gale in exposed places, decreasing slowly; much cloud occasional rain or showers, more frequent on north and west coasts and mountains. Fair periods in lowlands. Average temperature becoming cool.
16 Orkneys and Shetlands	Fresh east wind backing north; dull and rainy: cool.
17 N. W. Ireland 18 N. E. Ireland	As 7-9.
19 S. E. Ireland 20 S. W. Ireland	Moderate variable wind, becoming west fresh dull and rainy at first bright intervals and showers later; average temperature.

GENERAL INFERENCE.

A deep depression centred off northeast Scotland is moving northeast and another deepening system just off southwest Ireland will move east. Weather will be very unsettled with rain and gales in most areas, but the winds will moderate temporarily today in northern districts of England and Ireland.

FURTHER OUTLOOK.

Winds mainly westerly, decreasing slowly; some rain in most districts but also bright intervals.

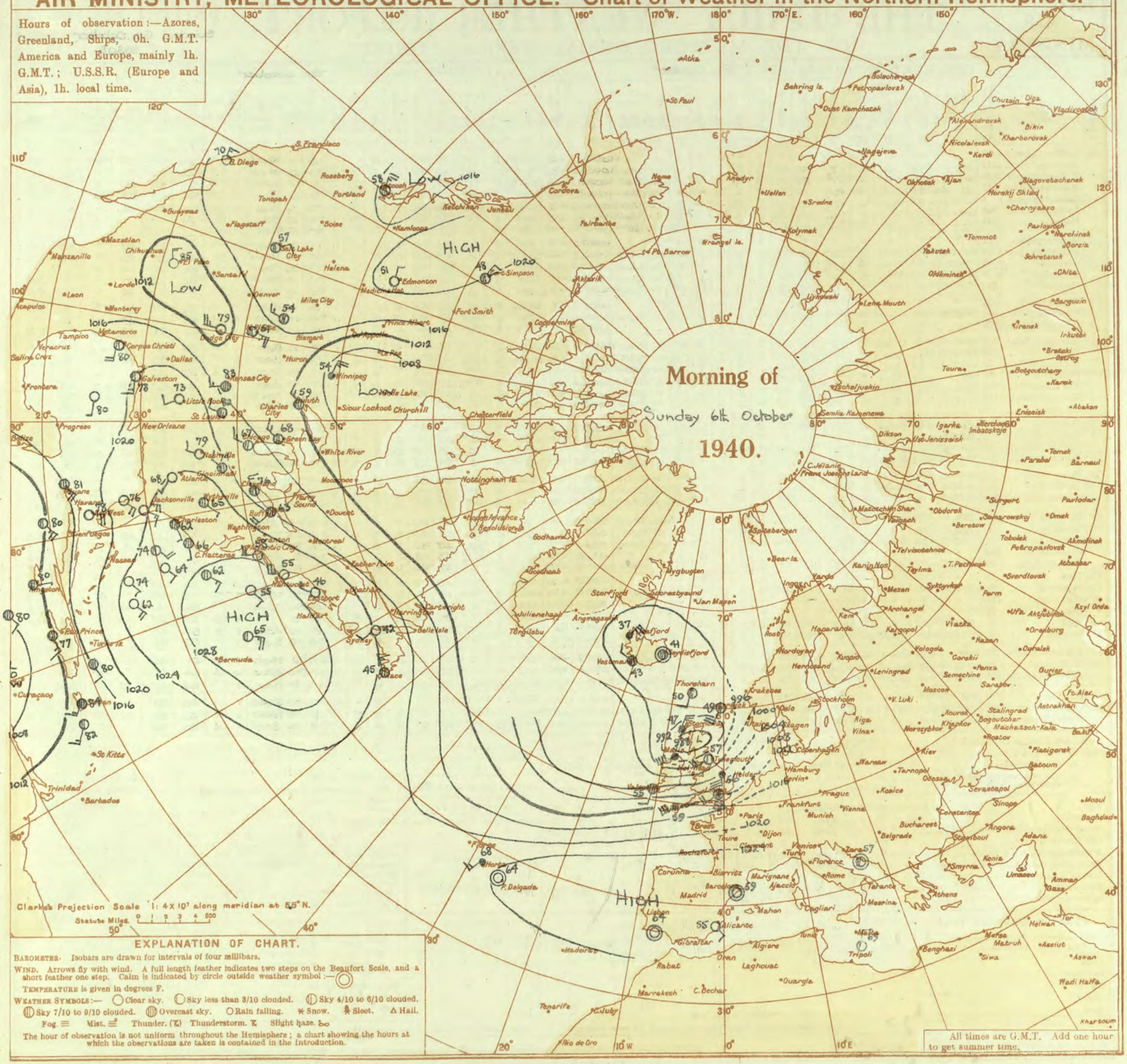
Gale warning in operation all coasts British Isles.

Forecasts issued at 10.30 L.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



Page 4.
AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday 6th October 1940.
No. 28808

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	1012·2	-26	SW	4	zo	58	85	5	5	-	-	10	10	2500
	S. Farnborough	226	1011·4	-32	SW	6	Gr	58	92	6	6	2	-	9	10	800
	Boscombe Down	417	1011·4	-22	SW'S	4	rr	58	85	7	6	2	-	9	10	1500
	Calshot (Sthmtn.)	8	1012·8	-24	SWW	6	rr	60	85	6	5	-	-	10	10	1800
	Lympne ...	346	1014·5	-26	SW	4	id	58	92	6	5	-	-	10	10	1500
	Manston ...	154	1014·1	-26	SW	5	zo	58	97	6	5	2	-	7-8	10	1800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1011·0	-34	SW'S	6	rr	57	92	6	6	2	-	7-8	10	1100
	Gorleston ...	5	1009·4	-40	SW'S	5	rr	55	92	6	6	-	-	10	10	1400
	Mildenhall ...	19	1007·8	-34	SSW	5	rr	55	92	6	-	2	-	10	10	1200
	Cranwell ...	240	1004·2	-34	SW	6	zo	58	75	6	8	-	-	10	10	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1009·5	-30	WSW	5	c/r	57	92	6	5	2	-	7-8	10	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007·0	-18	WSW	7	c/r	58	92	6	2	-	-	10	10	800
	Bristol ...	209	1010·0	-20	SW	6	ir	58	92	6	6	2	-	7-8	10	800
	Portland Bill ...	32	1012·2	-24	SW	5	o	60	92	7	5	-	-	10	10	1500
	Plymouth ...	82	1012·1	-18	SSW	7	zo	59	92	6	5	2	-	9+	10	1000
	The Lizard ...	240	1013·3	-16	SW	5	c	58	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1012·3	-14	SW	6	id	59	92	6	5	2	-	7-8	10	1100
	Guernsey ...	175														
6	Pembroke ...	142	1005·0	-6	SW'W	8	ir	59	97	6	6	-	-	9+	9+	600
7	Holyhead ...	26	999·5	+2	SW'S	5	b	58	85	7	-	3	-	0	Tr	-
	Chester (Sealand)	16	1000·0	-22	SW'W	5	bc	61	85	7	5	-	-	2-3	2-3	2500
8	Manchester ...	70	1000·7	-24	SSW	4	zo	60	85	6	5	-	-	7-8	10	1200
10	Spurn Head ...	29	1000·8	-20	S	6	ir	56	85	6	4	-	-	9+	9+	2500
	Catterick ...	175	996·6	-40	SW'W	5	bc/r	60	85	7	5	-	-	4-6	4-6	1800
	Tynemouth ...	108	995·3	-40	SW	4	bc	57	86	6	2	-	-	2-3	2-3	2800
11	St. Abbs Head	280	990·9	-32	W	3	bc	55	85	8	5	5	-	2-3	4-6	2000
	Leuchars ...	36	988·9	-38	-	0	zo	49	97	6	6	-	-	10	10	800
12	Renfrew (Abbots I.)	19	989·2	-28	SW'S	4	zo	57	75	6	5	-	-	10	10	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	993·8	-22	W'S	7	b	57	85	8	4	-	-	1	1	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	989·9	-30	NNE	5	rr	47	97	6	5	2	-	9	10	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	989·7	-42	S	5	rr	48	97	6	5	2	-	9	10	800
16	Lerwick ...	156	993·3	-20	SSW	4	c	49	97	6	8	7	-	4-6	7-8	800
17	Blacksod Point	18	1000·1	+72	WNW	6	cq	52	85	7	9	-	-	7-8	7-8	800
18	Malin Head ...	84	986·8	+10	SW'W	8	dd	55	92	5	6	-	-	9+	9+	800
	Aldergrove ...	268	992·8	+6	SWW	7	c	55	75	7	5	-	-	7-8	7-8	2600
19	Birr Castle ...	173	1002·5	+24	SSW	4	b	53	85	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1005·8	+10	S'W	2	c/r	55	92	7	6	-	-	7-8	7-8	1500
	Roches Point	22	1005·0	+12	W	3	bc	57	92	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 6th 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)	1008·0	-8	SW	5	rr	58	92	6	5	-	-	10	10	1500	1	*
	Croydon	1008·6	-24	SW	3	rr	58	92	5	6	2	-	9+	10	1500	1	*
	S. Farnborough	1009·2	-6	SW'S	5	ir	58	92	6	6	2	-	9	10	800	1	*
	Boscombe Down	1008·5	-6	SW	4	ir	58	92	6	6	2	-	9	10	700	1	*
	Calshot (Sthmtn.)	1010·3	-8	WSW	6	zo	60	86	7	5	7	-	9+	9+	900	1	4§
	Lympne	1011·8	-14	SW	4	Gr	58	85	6	6	2	-	7-8	10	900		
	Manston	1010·2	-16	SW	5	zo	59	85	6	5	7	-	4-6	10	620		*
2	Shoeburyness	1009·5	-12	SW	6	c	60	86	7	6	-	-	9+	9+	1500	1	*
	Felixstowe	1006·5	-14	SW'W	6	o	59	85	8	5	-	-	10	10	1600	1	2
	Gorleston	1004·7	-16	SW	6	c	60	85	7	6	-	-	9+	9+	700	1	4
	Mildenhall	1004·2	-12	SW	6	c	61	85	8	5	1	-	7-8	10	1900	1	*
	Cranwell	1002·5	+2	SW	5	c	57	85	8	8	7	7	2-3	10	2000	1	*
3	Birmingham	1005·9	+2	WSW	3	c	56	85	8	5	7	-	9+	10	1500	1	*
	Upper Heyford	1006·6	-10	SW	6	dd	57	97	5	6	2	-	7-8	10	500	1	*
4	Ross-on-Wye	1005·5	0	W'S	2	dr	58	97	6	-	2	-	10	10	1500	1	*
5	Hartland Point	1004·7	-12	WSW	7	rr	58	97	6	-	2	-	10	10	800	1	4
	Bristol	1007·5	-8	WSW	5	dr	59	92	5	6	2	-	7-8	10	500	1	*
	Portland Bill	1009·6	-12	SW	5	c/r	59	92	7	5	-	-	10	10	1500	1	4
	Plymouth	1005·4	-10	SW	7	9r	59	97	6	5	-	-	10	10	500	1	4
	The Lizard	1009·3	-12	SSW	5	o	57	97	7	5	-	-	10	10	1000	0	4
	Scilly (St. Mary's)	1008·1	-20	SW'S	5	c	59	97	6	5	-	-	10	10	800	1	4
	Guernsey																
6	Pembroke	1004·8	-6	SW'W	3	df	56	97	2	-	-	-	10	10	<150	1	3
7	Holyhead	1002·9	+10	WSW	4	c	55	65	8	5	7	6	7-8	9+	2500	1	3
	Chester (Sealand)	1003·4	+22	SW	1	c	54	75	8	5	7	-	2-3	10	2500	1	*
8	Manchester	1003·3	+22	WSW	4	c	54	75	8	5	3	9	2-3	9+	2400	1	*
10	Spurn Head	998·9	-12	SW	6	cq	57	85	7	5	4	4	2-3	7-8	2500	0	4
	Catterick	996·0	+10	W	6	c	53	75	8	5	7	6	2-3	7-8	2000	†	*
	Tynemouth	992·3	+20	W	8	bc	54	75	8	2	3	2	4-6	4-6	3400	1	4
11	St. Abbs Head	987·3	-4	W	8	cq	54	85	9	5	4	-	4-6	7-8	2500	0	3
	Leuchars	987·1	0	SW	4	bc	55	85	8	5	-	-	4-6	4-6	2200	1	*
12	Renfrew (Abbots I.)	995·2	+74	W'S	4	9pr	49	85	8	8	-	3	9+	9+	2000	1	*
	Eskdalemuir	994·8	+26	WNW	7	rr	48	85	7	6	-	2	7-8	9	450	1	
	Point of Ayre	1000·2	+34	WNW	6	c	52	85	8	8	-	-	9+	9+	1500	0	3
13A	Tiree	996·9	+30	NNW	5	bc	49	92	8	8	-	-	4-6	4-6	1800	0	5
13B	Stornoway	993·9	+30	NNW	5	c/r	47	85	8	5	7	-	7-8	9+	1200	1	3
15	Dalwhinnie	986·0	+54	WNW	5	c	45	85	7	5	-	-	9+	9+	2500	1	*
	Aberdeen	986·1	+2	WNW	2	c	53	86	8	-	7	-	0	9	-	1	2
	Wick	985·8	0	NE	3	id	50	97	6	5	2	-	9	10	450	1	2
16	Lerwick	988·4	-18	E	4	ir	49	92	7	8	2	-	7-8	10	800	1	*
17	Blacksod Point	1000·8	-10	W	1	c	47	92	8	3	5	-	4-6	9	1500	1	2
18	Malin Head	998·1	+26	NW	4	c	49	75	8	2	7	1	2-3	7-8	5700	0	4
	Aldergrove	1000·5	+32	SW'W	3	c	48	85	8	8	7	9	4-6	9+	800	1	*
19	Birr Castle	1002·0	-10	SSW	1	rr	51	97	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	999·0	-46	-	0	iR	55	97	6	6	2	-	9	10	1500	1	1
	Roches Point	1001·2	-30	SW'W	3	rr	57	97	6	6	2	-	7-8	9+	800	1	4

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 5th. Hrs. (36)
1	London (Kew)	60	56	55	Tr	1	3·5
	Croydon	62	55	54	-	2	4·2
	S. Farnborough	62	55	52	-	1	3·6
	Boscombe Down	60	55	52	Tr	2	3·6
	Calshot (Sthmtn.)	63	57	56	-	0·1	3·6
	Lympne	60			-		
	Manston						
2	Shoeburyness	62	51	52	-	Tr	6·5
	Felixstowe	62	55	53	-	0·2	5·2
	Gorleston	60	54	52	-	1	*
	Mildenhall	62	55	51	-	1	4·8
	Cranwell	61	52	50	-	1	5·5
3	Birmingham	60	56	51	Tr	3	3·8
	Upper Heyford	60	54	47	0·1	2	*
4	Ross-on-Wye	60	56	53	Tr	1	2·9
5	Hartland Point	59	57	57	0·3	6	1·5
	Bristol	62	55	52	1	5	2·3
	Portland Bill	59	57	*	-	2	
	Plymouth	61	57	56	-	0·6	3·2
	The Lizard	61	56	*	-	Tr	2·5
	Scilly (St. Mary's)	61	58		-	Tr	2·4
	Guernsey						
6	Pembroke	59	55	*	1	7	1·2
7	Holyhead	57	54	52	9	6	0·9
	Chester (Sealand)	62	54	46	0·1	0·2	4·7
8	Manchester	60	52	50	2	8	0·0
10	Spurn Head	59	52	*	-	2	4·4
	Catterick	56	50	49	Tr	0·4	3·7
	Tynemouth	56	51	47	0·1	2	*
11	St. Abbs Head	54	45	*	1	8	*
	Leuchars	58	46	45	Tr	11	5·8
12	Renfrew (Abbots I.)	55	46	45	7	13	0·0
	Eskdalemuir	51	44	43	5	30	0·4
	Point of Ayre	56	52	*	7	4	1·7
13A	Tiree	54	46	*	8	10	1·3
13B	Stornoway	55	45	*	3	1	2·9
15	Dalwhinnie	51	41	40	1	8	2·5
	Aberdeen	59	47	45	-	11	5·4
	Wick	56	44	*	1	4	
16	Lerwick	52	47	*	1	0·6	0·1
17	Blacksod Point	61	45	*	15	0·6	*
18	Malin Head	54	46	*	9	1	0·5
	Aldergrove	54	47	44	7	0·6	0·2
19	Birr Castle	58	51	50	8	2	0·3
20	Valentia Obsy.	60	55	51	19	7	0·0
	Roches Point	60	56	*	6	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	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)
		24 hrs. ended 9h.											
Kew	18	bcmc	ofcscz	czomrog	60	56	55	Tr	1	3·5	*	*	6
Croydon	217	czo	c	cmr	62	55	54	-	2	4·2	*	*	7
Greenwich (Royal Observatory)	149	c	c	crc	61	57	53	-	1	3·8	59	82	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	62	55	54		1		61	87	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110			*						*	*		*
Kensington	80	bc	bcc	*	62	57	54	-	1		55	86	*
Hampstead Observatory	450										*		*

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.
<0·1 whole period			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 7th October, 1940.

No. 28809

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)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1004·2	-30	SSW	5	r₀r₀	59	92	6	5	-	-	10	10	1500
	Croydon	1005·5	-26	SW	4	r₀r₀	59	92	5	6	-	-	10	10	500
	S. Farnborough	1004·5	-44	SW'S	6		60	92		6	2	-		10	
	Boscombe Down	1002·5	-44	SW'S	7	ir₀	60	97	7	6	2	-	9+	10	600
	Calshot (Soton.)	1005·6	-34	SW'W	7	c/r	60	92	7	6	-	-	10	10	500
	Lympne	1009·3	-22	SW	6	ir₀	60	85	6	6	2	-	9	10	400
	Manston	1007·4	-20	SW	6	c	61	85	8	5	2	-	9	10	600
2	Shoeburyness	1006·5	-22	SW'S	6	id₀	61	85	8	6	-	-	10	10	1500
	Felixstowe	1004·7	-20	SW	6	c/r	61	85	8	5	-	-	10	10	1400
	Gorleston	1004·2	-10	SW	5	c	63	75	6	5	-	-	9+	9+	1500
	Mildenhall	1002·5	-20	SW'S	6	c	63	75	8	5	1	-	7-8	10	2000
	Cranwell	1000·7	-24	SW	4	c/r	57	92	7	5	7	-	7-8	10	1500
3	Birmingham	999·3	-40	SW	4	rr	59	85	6	6	2	-	7-8	10	800
	Upper Heyford	1002·0	-34	SSW	5	id	60	92	6	5	-	-	10	10	500
4	Ross-on-Wye	999·8	-40	SW	5	ir₀	59	85	7	6	2	-	7-8	10	1500
5	Hartland Point	998·1	-42	SW	8	r₀r₀≡	59	97	6	-	2	-	10	10	800
	Bristol	1001·8	-34	SSW	6	c/r	60	85	7	6	-	-	10	10	900
	Portland Bill	1006·3	-24	SW	5	rr	60	92	7	5	-	-	10	10	1500
	Plymouth	1003·3	-34	SSW	7	r₀r₀	58	97	5	6	2	-	10	10	200
	The Lizard	1004·5	-30	SSW	7	df	53	97	3	5	-	-	10	10	800
	Scilly (St. Mary's)	1002·3	-30	SW'S	6	ir₀	60	97	6	5	2	-	7-8	10	450
	Guernsey														
6	Pembroke	995·8	-24	SW	2	df	58	97	5	5	-	-	10	10	800
7	Holyhead	995·1	-58	NE	5	r₀r₀	51	92	6	6	2	-	7-8	10	800
	Chester (Sealand)	997·8	-38	E'S	2	rr	52	92	6	6	2	-	10	10	1800
8	Manchester	998·7	-26	NE	1	rr	53	97	6	5	2	-	2-3	10	2100
10	Spurn Head	1000·6	-2	W	2	ir₀	55	85	6	5	-	-	10	10	2500
	Catterick	999·3	+4	—	0	rr	51	85	6	5	2	-	2-3	10	1800
	Tynemouth	998·8	+14	WSW	4	c	53	75	6	5	-	-	9+	9+	3200
11	St. Abbs Head	996·1	+32	W	4	c	51	65	8	5	2	-	4-6	10	2500
	Leuchars	995·0	+8	W	5	c	53	65	9	5	2	-	4-6	10	2200
12	Renfrew (Abbots I.)	996·6	-14	NW'W	3	c	53	75	9	8	1	-	4-6	9+	2000
	Eskdalemuir	996·9	-12	W'N	3	c	49	75	8	5	2	-	4-6	10	1500
	Point of Ayre	997·0	-32	SW'W	1	rr	50	97	8	-	2	-	10	10	2500
13A	Tiree	996·8	-4	NNW	2	bc	55	75	8	1	4	5	1	2-3	3500
13B	Stornoway	995·6	-4	W	3	c	52	65	8	3	7	-	7-8	7-8	2500
15	Dalwhinnie	998·0	+8	N	4	c	46	75	7	4	7	-	4-6	9	2500
	Aberdeen	994·1	+28	NW	6	pr	52	75	8	9	-	8	9	9+	2500
	Wick	992·5	+22	NW	5	pr	50	85	8	9	7	8	4-6	9	800
16	Lerwick	989·7	+10	NNW	2	rr	48	97	6	6	2	-	4-6	10	450
17	Blacksod Point	998·2	-14	E	1	bc	56	65	9	2	6	9	2-3	4-6	1500
18	Malin Head	997·5	-14	N	2	c	51	65	8	2	7	-	4-6	7-8	5700
	Aldergrove	997·8	-22	—	0	ir₀	49	85	8	6	2	-	4-6	10	1200
19	Birr Castle	996·8	-30	S	1	c	51	92	7	6	1	-	4-6	10	1400
20	Valentia Obsy. †	995·8	+2	WSW	3	c	60	85	9	5	-	-	9	9	5700
	Roches Point	993·6	-20	WSW	3	c/d	61	92	8	5	-	-	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 6th 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)	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)
London (Kew)	993·7	-24	SSW	5	r₀r₀	60	85	6	6	2	-	7-8	10	800	1	*
Croydon	999·4	-34	SW'S	3	dr	59	97	6	6	2	-	9+	10	600	·	*
S. Farnborough	999·4	-34	SW	6	r₀r₀	60	92	6	6	2	-	9	10	500	1	*
Boscombe Down	997·9	-28	SSW	6	dd	59	97	6	6	2	-	9+	10	300	1	*
Calshot (Soton.)	1000·1	-34	SW	7	RR	60	92	5	6	-	-	10	10	300	1	5
Lympne	1003·5	-42	SSW	6	rr	58	97	5	-	2	-	10	10	400	1	§
Manston	1002·5	-20	SW	7	r₀r₀	59	97	6	6	2	-	9+	10	100		*
Shoeburyness	1000·9	-32	SSW	6	ir₀	59	92	5	-	2	-	10	10	450	1	*
Felixstowe	999·5	-30	SW	6	iR	59	92	6	6	2	-	7-8	10	600	1	4
Gorleston	997·7	-22	SWS	5	c/r	59	85	6	6	-	-	10	10	1500	1	4
Mildenhall	996·0	-36	SSW	6	c/r	60	85	8	6	2	-	7-8	10	800	1	*
Cranwell	992·5	-42	SW	6	c	60	85	7	9	-	-	10	10	500	1	*
Birmingham	993·3	-36	SW	4	rr	59	97	6	6	-	-	10	10	220	1	*
Upper Heyford	995·6	-36	SSW	5	c/r	59	92	7	5	2	·	9	10	500	1	*
Ross-on-Wye	993·7	-34	SW	5	id	60	97	6	6	-	-	10	10	800	1	*
Hartland Point	994·1	-6	WSW	8	r₀r₀≡	59	97	6	5	2	-	10	10	600	1	5
Bristol	996·0	-22	WSW	6	c/r	61	92	7	6	2	-	9+	10	900	1	*
Portland Bill	999·7	-30	SW	5	rr	60	92	7	5	-	-	10	10	1500	1	5
Plymouth	998·4	-34	SSW	8	r₀r₀	59	97	5	6	-	-	10	10	200	1	5
The Lizard	999·5	-12	SW'W	7	c	59	97	6	5	2	-	9	10	800	1	5
Scilly (St. Mary's)	999·0	-4	SW'W	6	c	59	97	6	5	2	-	7-8	10	500	1	4
Guernsey																
Pembroke	993·7	-12	NW'W	4	o	57	97	6	5	-	-	10	10	800	1	4
Holyhead	994·3	+10	NE'N	5	c/r	50	85	8	9	2	-	9	10	1400	1	3
Chester (Sealand)	992·9	-6	NW	3	r₀r₀	49	92	6	6	2	-	9+	10	800	1	*
Manchester	991·3	-24	N'E	4	c/d	50	92	5	5	2	-	7-8	10	1200	2	*
Spurn Head	989·9	-50	S'E	5	iR	57	97	6	6	-	-	10	10	800	1	4
Catterick	994·7	-20	N	2	rr	45	97	6	-	2	-	10	10	2200	1	
Tynemouth	996·1	-12	WSW	3	o/r	47	92	5	-	2	-	10	10	3200	1	1
St. Abbs Head	994·7	-6	NW	2	r₀r₀	50	75	8	5	2	-	7-8	9+	2500	1	1
Leuchars	994·3	-6	NW	1	c	50	85	8	5	7	-	4-6	7-8	2500	1	*
Renfrew (Abbots I.)	995·4	-6	WSW	1	bc	48	75	8	-	7	-	0	4-6	-	1	*
Eskdalemuir	994·6	-10	W'N	3	r₀r₀	46	85	8	6	2	-	4-6	10	1500	1	*
Point of Ayre	995·3	-4	NE'E	3	rr	49	92	7	6	2	·	7-8	9+	1500	1	2
Tiree	996·1	0	NW	1	c	48	85	8	8	1	-	4-6	7-8	2800	0	2
Stornoway	995·1	-2	WSW	2	c/pr	47	85	8	5	7	-	9	9+	1200	1	1
Dalwhinnie	996·1	-6	NNW	1	bc	44	65	8	1	6	-	2-3	4-6	2500	0	*
Aberdeen	994·2	0	WNW	1	bc	47	75	8	2	9	3	1	2-3	2500	0	2
Wick																
Lerwick	990·3	+2	NW'W	5	c/r	46	92	7	8	7	-	7-8	9+	800	1	*
Blacksod Point	998·4	+10	W	3	r₀r₀	50	97	7	6	-	-	10	10	300	1	1
Malin Head	996·4	-2	ENE	1	c	50	65	8	2	7	-	2-3	7-8	5700	0	3
Aldergrove	996·6	+2	—	0	pr	49	85	8	8	7	-	4-6	10	2000	1	*
Birr Castle	998·0	+12	N	1	c	50	85	8	5	1	-	7-8	10	1500	1	*
Valentia Obsy. †	1000·2	-34	NW'N	4	c/pr	53	85	8	5	-	-	9+	9+	800	1	3
Roches Point	997·0	+26	NW	3	c	57	85	8	8	7	-	4-6	7-8	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 6th (37)	13h.—18h. 6th (38)	18h. 6th – 1h. 7th (39)	1h.—7h. 7th (40)
London (Kew)	cr₀crr₀m₀	cr₀ir₀r₀	cm₀rrr₀cm₀	cm₀
Croydon	d₀d₀r₀r₀	r₀r₀m₀		bcm₀
S. Farnborough	ed₀d₀RRe			bcb,cr₀bc
Boscombe Down	cir₀cidd₀r	cd₀d₀m₀	cbcpr	bc
Calshot (Soton.)	or₀r₀ddw	cirddRRm₀	rrd,d₀m₀bb	wbcPRq,b
Lympne	c	cm₀Rr₀br	rrRRbc	bcbbcc
Manston	cm₀c	cr₀r₀ir₀	cr₀r₀ir₀	cir₀cm₀
Shoeburyness	ccid₀	r₀r₀ir₀cm₀	cr₀RR	ir₀cb
Felixstowe	ciir₀	ir₀id₀iRm₀	or₀r₀cd₀pr₀	qpr₀ir₀bm₀
Gorleston	coid₀cq	r₀oq	or₀cq	cq,bc
Mildenhall	cir₀c	cd₀d₀cir₀c	ccRm₀	obbcm₀
Cranwell	ir₀z₀qc	cz	r	RR tddm₀
Birmingham	cir	orr₀r	orRr₀c	cbprbc
Upper Heyford	cid₀cm₀cir₀	cd₀r₀m₀cir₀	cdrrm₀br	ecpr₀bcb
Ross-on-Wye	r₀r₀qcq	r₀r₀qrq	dqcqpbc	cbc
Hartland Point	cr₀r₀q≡	r₀r₀o≡	r₀bcp≡	c
Bristol	cr₀drirq	cir₀q	crrr₀bcq	cqprbcb
Portland Bill	orr	orr	oc	c
Plymouth	cm₀d₀r₀r₀	*	cr₀r₀id₀m₀	cm₀,bbc
The Lizard	ffdf	dfrrc≡	prcbc	prbcc
Scilly (St. Mary's)	cir₀id₀	rrirdc	cbc	bc
Guernsey				
Pembroke	ofrrq	rrqm₀o≡	corqc	bcq
Holyhead	rrRRc	rrr₀r₀c	crr₀r₀c	cbc,b
Chester (Sealand)	c,rrm₀	orrm₀c	cm₀r₀r₀ir	ciR prm₀
Manchester	cm₀r₀r₀rr	cmddm₀	cm₀	cm₀pr
Spurn Head	cir₀	Rrir	qirrr	ir₀bc
Catterick	ccir₀rr	crrm₀	cr₀r₀m₀ir₀	cr₀cm₀bcc
Tynemouth	cm₀	corr	orr	obc
St. Abbs Head	bcqc	cr₀r₀	bc	bc
Leuchars	bcc	c	cbcbcm₀	m₀cpr₀cbc
Renfrew (Abbots I.)	cpr₀c	cbc	bccbm₀b	bw,cr₀b
Eskdalemuir	r₀ir₀c	cir₀	r₀cbc	bccw
Point of Ayre	crr	rr	cbcbc	bccbc
Tiree	cbc	bcc	cpr	cpr
Stornoway	cpr.	cpr	cbpr₀c	bccPRl
Dalwhinnie	c	cbc	*	cprbc
Aberdeen	cpr₀	cbc	bcb	bcir₀
Wick	idqpr		bccpr	cbc
Lerwick	cirrr	rcprir	cirpr	bcpr₀
Blacksod Point	bc	rr	bc	pr₀bc
Malin Head	z	c.	cbccPRcrr	qpcprc
Aldergrove	ccir₀	cir₀c	pr₀bwpr	cprb
Birr Castle	orrc	c	oirb	bcb
Valentia Obsy. †	RRr₀r₀c	prpr₀c	cpr₀bcb	bbccpr₀c
Roches Point	RRidc	bcc	b	b

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. r₀, 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.*

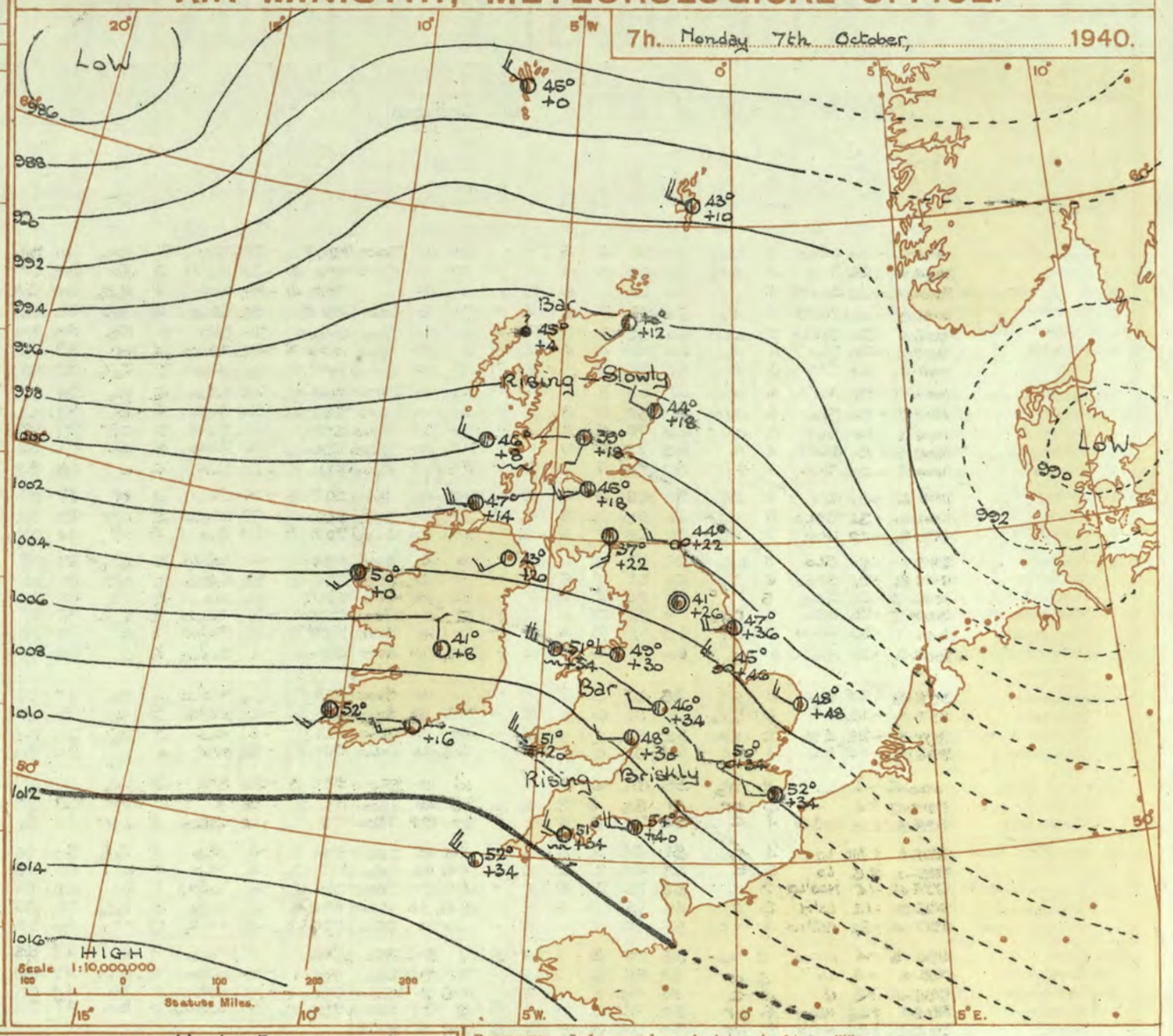
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 7th October, 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 6th Oct.			18h. G.M.T.			01h. G.M.T. 7th Oct.			07h. G.M.T.		
III	$C_L C_M$	ww $V_h N_h$	DDFWN	$C_L C_M$	ww $V_h N_h$	DDFWN	$C_L C_M$	ww $V_h N_h$	DDFWN	$C_L C_M$	ww $V_h N_h$	DDFWN
109	83	25744	60785	20	01752	25482	5-	02736	25386	83	10863	22384
115	87	01953	28484	84	01953	27414	51	81854	28365	82	81854	26385
203							8-	02845	20465			
206	87	01854	26365	77	01852	26113	51	01864	26114	77	01863	18213
210												
220	24	01953	28303	24	01853	27203				9-	82847	24287
230							5-	81758	20118			
245	51	02954	27327	47	02853	30125	51	01865	28115	73	01863	24214
260				53	01763	00014	00	05550	00010	14	05651	24262
277	82	02844	24228	87	01854	29264	50	00752	25312	80	00842	24412
279	--	05644	24528				--	05655	20115	--	05654	24314
285										33	01743	29384
288	52	62745	20268	5-	64448	01268	5-	58448	28268	57	01863	19264
278										31	01662	16284
301	02	62548	00068	62	61635	02368	8-	82746	28386			
321	5-	64658	22168	6-	56438	02358						
299	5-	62648	23368				5-	62538	26468	50	00741	24301
292	52	62643	20168	52	62534	32368	52	58556	24268	53	00861	20263
310										--	63618	24348
316	52	62435	18268	6-	58438	20568	52	21663	28158	46	02654	00160
333	62	62635	00068	56	52835	55587	5-	25658	32188	20	01854	29384
334												
340	62	62537	16268	6-	62438	24368	50	22658	28368	8-	02955	24125
136	57	22744	18468	62	61846	18668	62	61636	24368	84	05652	26363
336											02853	28365
350	5-	02838	49558	5-	61828	56568						
368	62	61736	21668	62	62636	55668				87	00862	25202
379	62	62636	22568	6-	61738	22568	6-	62638	24328			
390	62	63536	22428	5-	61538	26563				5-	05644	24314
382	62	51737	50558	67	22825	53568	51	02756	25228			
438	--	52758	57758							81	01863	26414
430	5-	46418	53768	5-	64428	53768				23	01752	26213
409	6-	64618	17768	02	62518	18868	50	01743	57723	28	02845	27325

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 7th October
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate west wind backing temporarily to southwest and becoming strong locally, fair today, occasional rain during night and morning; average temperature.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind southwest to west, strong at times; occasional rain, with local hail and thunder, bright intervals, especially to-morrow: average temperature.

GENERAL INFERENCE.

A ridge of relatively high pressure is moving eastwards across the British Isles and will be followed by a low pressure trough from the Atlantic. Weather will be mainly fair in the Midlands, East and South England today, but elsewhere there will be variable cloud with occasional rain or showers and these conditions will spread eastward tonight. Temperature will be about average for the season.

FURTHER OUTLOOK.

Unsettled, but bright periods.

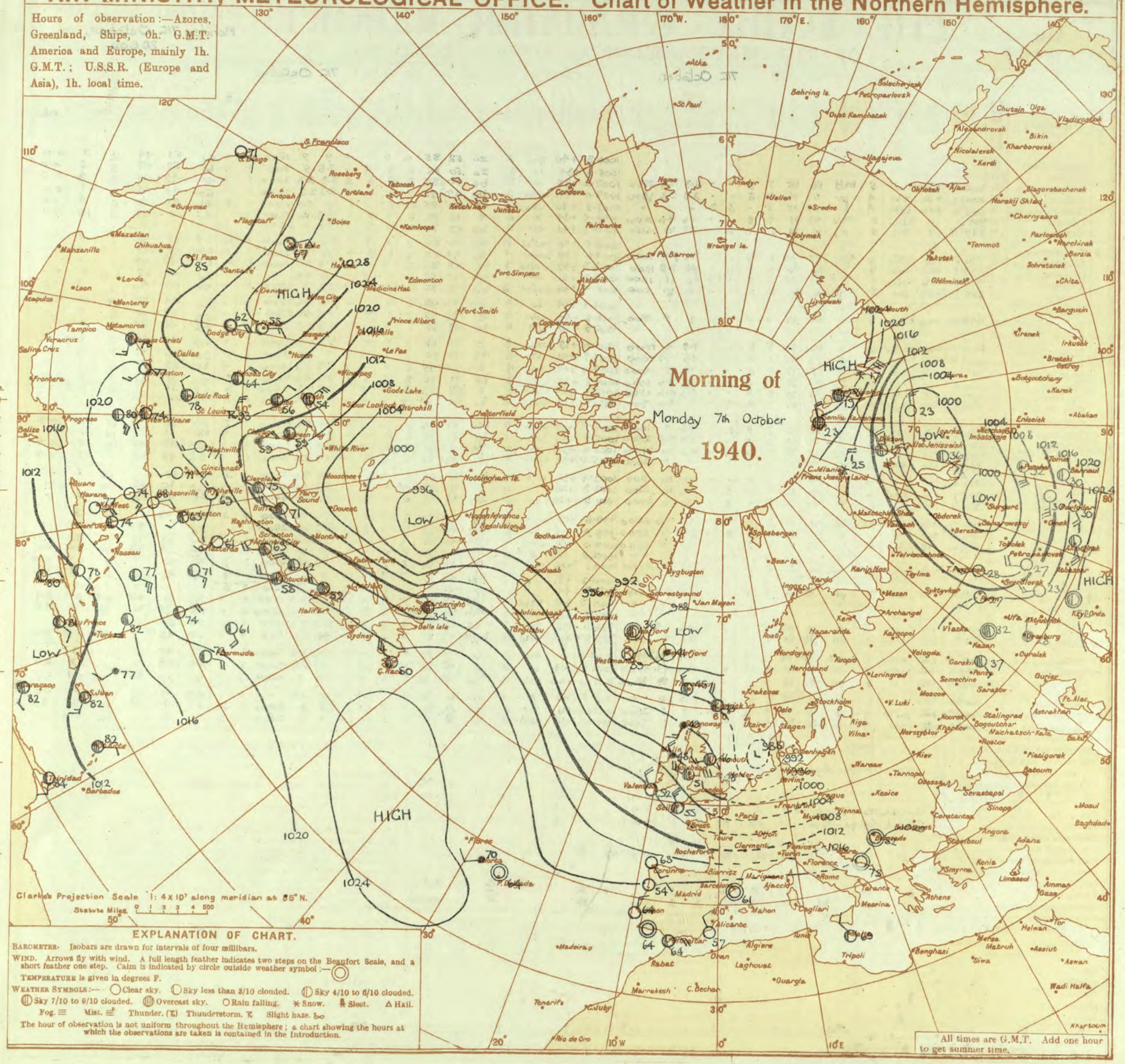
Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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.



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 7th October, 1940.

No. 28,809

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														
	S. Farnborough	226	1002·1	+30	W	5	bc/d	56	85	7	5	-	-	2-3	2-3	2200
	Boscombe Down	417	1000·1	+36	W'N	4	pr	53	85	7	8	-	-	2-3	2-3	1800
	Calshot (Sthmtn.)	8	1001·2	+26	W'N	4	b	57	85	8	-	3	8	-	1	*
	Lympne ...	346	999·6	-2	SSW	5	bc/r	59	97	7	8	-	-	4-6	4-6	1500
	Manston ...	154	999·4	+8	SW	5	ir₀	61	92	5	6	2	-	7-8	10	<150
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	996·7	+18	WNW	6	c/pr	57	85	6	8	-	-	7-8	7-8	3000
	Gorleston ...	5	994·7	+20	WNW	4	c	56	85	6	9	-	-	7-8	7-8	1200
	Mildenhall ...	19	997·5	+50	WNW	4	c	49	97	7	5	-	-	10	10	1200
	Cranwell ...	240	998·3	+44	NW	3	c/d	46	97	5	5	-	-	10	10	500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	999·4	+42	WNW	5	c	50	85	8	5	-	-	9	9	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1001·7	+20	WNW	6	c	56	85	8	8	-	-	7-8	9	1500
	Bristol ...	209	1001·4	+38	W'N	4	bc	53	85	7	5	-	-	4-6	4-6	3000
	Portland Bill ...	32	1001·7	+28	SW	5	c	57	92	7	5	-	-	9	9	4000
	Plymouth ...	82	1004·2	+24	W	5	z₀	57	85	6	5	-	-	4-6	4-6	1000
	The Lizard ...	240	1005·6	+28	WNW	6	bc	55	85	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1006·0	+22	NW'W	5	bc	55	85	7	8	4	-	1	4-6	1800
	Guernsey ...	175														
6	Pembroke ...	142	1002·9	+26	NW'W	5	cq	52	85	7	8	2	-	4-6	9	1000
7	Holyhead ...	26	1000·2	+22	WNW	5	c	51	85	8	2	-	-	7-8	7-8	2500
	Chester (Sealand)	16	999·8	+34	W	3	ir₀	49	85	6	6	2	-	4-6	10	3100
8	Manchester ...	70	999·0	+34	WSW	2	z₀	45	97	6	5	-	-	9	9	2000
10	Spurn Head ...	29	996·0	+30	W	6	rr	48	97	6	5	-	-	10	10	800
	Catterick ...	175	998·1	+30	NW	2	ir₀	46	97	6	5	2	-	4-6	10	1500
	Tynemouth ...	108	997·6	+20	W	3	c/r	46	92	7	-	2	-	10	10	2200
11	St. Abbs Head	280	996·3	+16	NW	2	bc	47	85	8	5	4	-	4-6	4-6	2500
	Leuchars ...	36	996·8	+10	W	1	c	44	75	6	5	2	-	2-3	9	2500
12	Renfrew (Abbots I.)	19	998·6	+18	WSW	2	b	43	85	7	5	-	-	Tr	Tr	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	998·7	+18	N'W	4	bc	51	85	8	8	-	-	2-3	2-3	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	996·0	+6	SW	3	pr	43	92	7	8	-	-	7-8	7-8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	994·5	+4	W	3	c	42	85	7	5	7	8	4-6	7-8	1500
16	Lerwick ...	156	991·7	+6	WNW	4	bc	43	85	8	5	-	-	4-6	4-6	1500
17	Blacksod Point	18	1003·4	+20	WNW	3	bc	49	75	8	4	-	-	4-6	4-6	2500
18	Malin Head ...	84	999·3	+12	WNW	4	ir	48	85	8	9	-	-	4-6	4-6	4000
	Aldergrove ...	268	1000·8	+22	W	3	pr	46	92	7	5	-	8	9	9+	3000
19	Birr Castle ...	173	1004·0	+26	N	1	b	44	92	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1007·7	+26	NW'W	4	b	52	75	8	2	-	-	1	1	2500
	Roches Point	22	1005·5	+32	NW	4	b	50	85	8	5	-	-	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 7th 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)	1006·8	+40	NW	2	z₀	52	85	6	5	-	-	9	9	1500	1	*
Croydon	1005·8	+34	W	3	z₀	50	85	6	8	4	-	7-8	9	900	1	*
S. Farnborough	1007·2	+38	W	2	bc	50	85	8	7	3	2	2-3	2-3	3000	1	*
Boscombe Down	1008·0	+38	WNW	3	bc	47	92	7	8	-	5	2-3	2-3	2500	1	*
Calshot (Sthmtn.)	1007·8	+40	WNW	3	bc	50	85	8	8	-	5	1	2-3	2100	1	2
Lympne	1006·4	+34	W	2	c	52	92	7	5	7	-	7-8	9+	1300	1	§
Manston	1006·8	+40	NW	4	z₀	52	75	6	5	3	-	7-8	9	2500		*
Shoeburyness	1005·9	+40	NW'W	3	bc	50	85	8	5	4	-	2-3	4-6	4000	1	*
Felixstowe	1004·6	+38	WNW	4	z₀	49	85	6	5	3	-	Tr	Tr	1500	1	1
Gorleston	1003·3	+48	WNW	3	bc	48	85	6	4	-	-	2-3	2-3	2500	1	2
Mildenhall	1004·7	+20	W'N	3	z₀	45	92	6	-	7	-	0	4-6	-	1	*
Cranwell	1005·4	+46	NW'W	3	z₀	45	92	6	5	3	9	2-3	9	2500	1	*
Birmingham	1006·1	+34	W	2	bc	46	92	6	5	-	-	4-6	4-6	1500	1	*
Upper Heyford	1006·8	+40	W'N	3	c	48	85	9	5	4	-	7-8	9	5700	1	*
Ross-on-Wye	1007·8	+30	W'S	2	bc	48	85	8	5	-	-	2-3	2-3	2500	1	*
Hartland Point	1010·0	+38	WNW	4	c	52	65	9	8	4	-	7-8	7-8	1500	1	4
Bristol	1008·7	+42	W	2	bc	47	85	8	2	3	-	1	2-3	2000	1	*
Portland Bill	1009·0	+40	W	4	c	54	97	8	5	-	9	7-8	7-8	4000	1	4
Plymouth	1010·8	+34	WNW	3	bc	51	75	8	7	3	1	2-3	4-6	3000	1	3
The Lizard	1012·1	+24	WNW	4	c	52	85	8	8	9	-	7-8	7-8	2500	1	3
Scilly (St. Mary's)	1012·3	+34	NW'W	5	bc	52	65	8	8	4	3	4-6	4-6	1500	1	3
Guernsey																
Pembroke	1009·7	+20	NW'W	5	bcq	51	75	8	2	-	-	4-6	4-6	2500	1	2
Holyhead	1005·9	+34	W'N	5	bc	51	85	8	5	-	-	2-3	2-3	2500	1	4
Chester (Sealand)	1005·6	+30	W	3	c/pr	49	85	7	8	-	-	7-8	7-8	2200	1	*
Manchester	1005·0	+32	WSW	2	z₀	46	92	6	8	3	-	2-3	4-6	2000	1	*
Spurn Head	1003·4	+36	W'S	4	bc	47	85	6	4	-	-	4-6	4-6	2500	1	3
Catterick	1003·3	+26	-	0	bc	41	92	7	5	8	-	2-3	4-6	2000	1	*
Tynemouth	1001·8	+22	W	3	z₀	44	85	6	2	3	-	2-3	4-6	4000	1	1
St. Abbs Head	999·6	+18	WNW	3	bc	45	75	8	4	4	-	4-6	4-6	2500	0	2
Leuchars	999·9	+18	W	2	bc	40	92	8	5	6	1	2-3	2-3	2800	-	*
Renfrew (Abbots I.)	1002·0	+18	WSW	3	cjf	45	85	8	8	-	-	7-8	7-8	2500	1	*
Eskdalemuir	1002·8	+22	S	3	c	37	92	8	5	-	-	9	9	800	1	
Point of Ayre	1004·1	+26	NW'W	5	bc	49	85	8	8	-	-	2-3	2-3	2500	1	3
Tiree	1000·2	+8	W'N	3	c/pr	46	92	7	8	-	-	9	9	1200	1	4
Stornoway	997·4	+4			pr	45	85	8	8	-	3	7-8		800	1	2
Dalwhinnie	1000·8	+18	SSW	1	bc	39	85	8	3	-	-	2-3	2-3	1500	1	*
Aberdeen	998·5	+18	WNW	2	bc/r	44	85	8	8	7	3	4-6	4-6	2500	0	1
Wick	996·6	+12	SW	3	bc	40	85	8	8	7	8	2-3	4-6	1500	1	2
Lerwick	993·6	+10	WNW	4	bc/pr	43	85	8	5	7	-	4-6	4-6	800	1	*
Blacksod Point	1004·0	0	SW	3	c	50	85	8	3	-	-	7-8	7-8	2500	1	3
Malin Head	1001·9	+14	W	5	c	47	85	8	8	6	-	4-6	7-8	4000	1	3
Aldergrove	1005·0	+20	SW	3	b/pr	43	92	8	3	4	-	Tr	1	2500	1	*
Birr Castle	1007·7	+8	N	1	bc	41	92	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.	1009·1	+6	SW	3	c/pr	52	85	8	5	-	-	9	9	2500	1	2
Roches Point	1010·2	+16	W'S	3	b	48	85	8	5	-	-	1	1	2500	1	3

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 6th Hrs. (36)
London (Kew)	61	51	44	2	2	0·0
Croydon	61	50	48	3	3	0·0
S. Farnborough	61	49	45	3	2	0·0
Boscombe Down	60	46	43	5	1	0·0
Calshot (Sthmtn.)	61	49	46	6	5	0·0
Lympne	60	51	47	4	10	0·0
Manston						
Shoeburyness	64	49	41	1	1	0·0
Felixstowe	63	49	45	1	1	0·0
Gorleston	64	48	44	1	·1	
Mildenhall	61	45	39	0·5	4	0·0
Cranwell	61	43	40	5	9	1·3
Birmingham	60	44	37	8	12	0·0
Upper Heyford	62	47	41	3	2	*
Ross-on-Wye	62	47	39	9	0·6	0·4
Hartland Point	60	51	49	3	0·4	0·0
Bristol	62	46	41	7	3	0·2
Portland Bill	60	53	*	6	1	*
Plymouth	59	51	51	7	1	0·0
The Lizard	59	51	*	6	0·5	0·0
Scilly (St. Mary's)	60	52	*	3	-	0·0
Guernsey						
Pembroke	60	50	*	14	2	0·0
Holyhead	55	49		14	1	
Chester (Sealand)	57	47	45	15	5	0·4
Manchester	56	43	37	11	3	0·0
Spurn Head	61	46	*	13	6	2·2
Catterick	54	40	32	15	1	1·1
Tynemouth	54	42	39	6	5	*
St. Abbs Head	55	43	*	Tr	3	*
Leuchars	56		30	-	..	1·1
Renfrew (Abbots I.)	54	38	31	Tr	0·1	1·7
Eskdalemuir	49	34	28	0·1	0·5	0·0
Point of Ayre	52	47	*	7	0·4	0·0
Tiree	55	45	*	-	4	7·0
Stornoway			*	1	1	
Dalwhinnie	50	31	22	0·1	0·4	2·4
Aberdeen	53	38	31	Tr	Tr	4·0
Wick	50	39	*		1	*
Lerwick	50	42	*	10	0·2	0·0
Blacksod Point	57	45	*	1	3	*
Malin Head	54	44	*	-	7	2·6
Aldergrove	51	37	33	0·2	0·1	0·0
Birr Castle	53	39	33	14	2	0·0
Valentia Obsy.	61	49	43	19	Tr	2·2
Roches Point	61	48	*	23	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	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	cr₀cr r₀m₀	cr₀ir₀r₀	cm₀r₀cm₀	61	51	44	2	2	0·0	*	*	8
Croydon	217	d₀d₀r₀r₀	r₀r₀m₀	bcm₀	61	50	48	3	3	0·0	*	*	6
Greenwich (Royal Observatory)	149												
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	62	51	46	3		0·0	82	77	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110			*	*						*	*	*
Kensington	80	cr	cr	*	62	51	46	2	3		94	74	*
Hampstead Observatory	450	o	or₀	bc	61	47	44	2	2	0·0	*	81	*

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.
0·1	7h on 7th	<0·1	rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome														

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ 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.

BRITISH SECTION

Tuesday 8th October 1940.

No. 28810

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)	1012.6	+20	W	3	c	58	55	8	5	-	1	4-6	7-8	2500
	Croydon	1012.1	+18	W'N	3	bc	58	55	8	4	-	-	4-6	4-6	2500
	S. Farnborough	1013.0	+18	WNW	2	bc	58	55	8	8	-	-	4-6	4-6	3500
	Boscombe Down														
	Calshot (Soton.)	1013.2	+14	WNW	3	bc	59	55	8	1	4	-	2-3	4-6	3500
	Lympne	1012.7	+20	WNW	3	bc	58	55	8	1	-	-	4-6	4-6	2500
	Manston	1013.1		WNW	4	bc	59		7	1	-	-	4-6	4-6	2500
2	Shoeburyness	1012.2	+32	WNW	3	bc	61	55	8	2	6	-	4-6	4-6	4000
	Felixstowe	1010.9	+20	WNW	4	bc	59	55	8	1	-	-	2-3	2-3	3500
	Gorleston	1010.1	+24	WNW	4	bc	58	65	7	2	-	-	4-6	4-6	2500
	Mildenhall	1010.5	+18	W	4	c	57	65	7	2	-	-	7-8	7-8	3000
	Cranwell	1010.2	+18	W	4	c	56	55	7	8	-	-	7-8	7-8	2500
3	Birmingham														
	Upper Heyford	1011.9	+18	W	4	bc	57	55	9	2	-	-	2-3	2-3	3200
4	Ross-on-Wye	1012.0	+6	WS	3	bc	59	45	9	1	-	-	2-3	2-3	4000
5	Hartland Point	1013.7	+8	W	4	bc	55	65	9	4	-	-	4-6	4-6	2500
	Bristol	1013.0	+14	W'N	4	bc	57	65	8	1	-	-	2-3	2-3	3500
	Portland Bill	1014.4	+14	W	4	bc	57	85	8	2	-	-	4-6	4-6	4000
	Plymouth	1014.7	+12	WSW	3	bc	58	55	8	1	7	-	2-3	4-6	3500
	The Lizard	1014.6	+10	W'S	3	bc	60	65	8	7	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	1014.8	+6	SW'S	3	bc	60	65	8	8	4	-	2-3	4-6	1500
	Guernsey														
6	Pembroke	1012.7	+2	SW'W	5	bcq	57	65	8	8	-	-	4-6	4-6	2000
7	Holyhead	1009.4	+10	SW	5	c	55	75	8	6	3	9	4-6	7-8	2800
	Chester (Sealand)	1009.8	+10	WSW	4	bc	60	45	9	1	-	-	4-6	4-6	3200
8	Manchester	1009.8	+18	W'S	4	bc	54	65	8	2	-	-	4-6	4-6	3500
10	Spurn Head	1007.9	+8	W'S	5	c	54	75	6	4	-	-	7-8	7-8	2500
	Catterick	1007.2	+12	W	4	bc	56	55	9	2	-	-	4-6	4-6	2500
	Tynemouth	1005.6	+18	W	4	bc	54	65	7	2	-	-	4-6	4-6	3200
11	St. Abbs Head	1003.5	+10	WNW	4	bc/pr	50	75	9	4	5	1	4-6	4-6	2000
	Leuchars	1002.8	+10	WSW	4	pr	51	75	7	2	7	-	7-8	9	1500
12	Renfrew (Abbots I.)	1003.7	+4	SW'W	5	pr	53	75	8	8	-	-	9	9	2500
	Eskdalemuir	1005.0	+6	W'S	4	pr	48	75	8	8	4	-	9	9+	1500
	Point of Ayre	1007.2	+6	W'S	5	c	56	75	6	8	-	-	7-8	7-8	2500
13A	Tiree	1001.8	+6	WSW	4	bc	54	85	8	8	-	-	4-6	4-6	2500
13B	Stornoway	998.9	+10	SSW	4	c	53	75	8	8	7	-	7-8	9+	2000
15	Dalwhinnie	1002.0	-8	SSW	3	c	48	75	8	8	-	-	7-8	7-8	2500
	Aberdeen	1001.1	+2	SW	3	bc	52	65	8	8	3	-	4-6	4-6	2500
	Wick	999.2	+16	WSW	4	bc	52	65	6	8	7	8	2-3	4-6	2500
16	Lerwick	996.3	+14	W	4	pp	49	75	8	8	7	-	4-6	7-8	800
17	Blacksod Point	1006.2	0	WSW	3	c	56	75	8	3	-	9	1	9	2500
18	Malin Head	1003.5	+8	WNW	5	bc	55	75	8	2	-	-	2-3	4-6	2500
	Aldergrove	1006.2	+6	WSW	4	bc	56	65	9	8	-	8	4-6	4-6	3000
19	Birr Castle	1008.9	+4	WSW	2	c	54	75	8	5	4	-	7-8	7-8	2500
20	Valentia Obsy. †	1010.5	+2	W'S	4	bc	57	75	9	2	-	5	2-3	2-3	2500
	Roches Point	1011.2	+2	W	3	c/pr	55	85	9	3	-	3	4-6	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. °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. 7th (37)	Weather 13h.–18h. 7th (38)	Weather 18h. 7th to 1h. 8th (39)	Weather 1h.–7h. 8th (40)
London (Kew)	1014.5	+10	WSW	2	z	50	55	5	1	-	-	Tr	Tr	2500	1	*	cmbcy	bybzy	bzoyw	bcmow
Croydon	1014.3	+14	W	1	z	51	75	6	5	4	-	Tr	Tr	3000	1	*	bccmbcy	bcyby	bc	bc
S. Farnborough	1014.6	+10	WSW	1	b	51	75	8	-	3	-	0	1	-	1	*	bcbrcbcy	bcyb	bbcbmow	bwcd₀prbc
Boscombe Down	1014.5	+8	SWW	2	b	51	75	8	4	-	-	1	1	3000	0	*		b bm	b	bcpr₀c
Calshot (Soton.)	1014.7	+10	W'S	3	bc	55	75	8	4	-	-	2-3	2-3	5000	1	2	b,bcy	bcyb	bbw	bwcwc
Lympne	1015.0	+10	WSW	1	b	51	85	8	-	-	-	0	0	-	1	§3	bc	bcyb	bc	bwbcc
Manston																*			bm₀	bc
Shoeburyness	1014.0	+12	W'S	2	b	53	75	6	-	-	-	0	0	-	1	*	bcbbcy	bcybm	bmob,b	bbw
Felixstowe	1013.9	+12	SW'W	3	b	55	65	8	1	-	-	1	1	3500			bmbcy	bcybcb	bbmo	bmo,wbc
Gorleston	1012.6	+10	WSW	2	bc	56	65	6	1	-	-	2-3	2-3	2500	1	2	bc	bc	bc	bc
Mildenhall	1012.7	+12	SW'S	3	b	53	65	8	4	4	1	Tr	1	3000	1	*	bcmbbcc	cbcybyb	bbcbbc	bcbmowcw
Cranwell	1011.5	+6	WSW	3	bc	50	75	8	5	-	1	2-3	4-6	2500	1	*	bcbmbc	bcbyybc	bc, bcmo	bcmobc
Birmingham	1012.2	+2	SSW	2	bc	52	95	7	7	4	1	1	2-3	2500	1	*		bc	bcc	cbc
Upper Heyford	1013.5	+14	SW	3	b	52	75	7	1	-	-	Tr	Tr	3500	0	*	cbccbc		b	bbc
Ross-on-Wye	1013.0	+6	SW	3	b	53	65	8	5	-	-	1	1	2500	1	*	bbcvy	bcyby	bbcc	cbcc
Hartland Point	1012.6	-8	SW	5	bc	56	65	8	9	4	5	2-3	2-3	2500	1	3	cbc	bc	bcc	cr
Bristol	1014.0	+2	W'S	1	b	51	75	8	4	4	1	Tr	1	3500	1	*	bbcb	b	bbcc	cbccpr₀
Portland Bill	1014.5	+2	WSW	4	bc	57	85	8	5	-	-	4-6	4-6	4000	1	4	cbc	bcbc	bc	oir
Plymouth	1014.9	+14	WSW	4	b	56	75	8	1	-	-	Tr	Tr	3500	0	2	bc	bcb	b,cbcir₀bc	bccidcmo
The Lizard	1016.4	0	W'N	4	bc	58	85	8	7	-	-	2-3	2-3	2500	0	2	bc	bc	cprc	cbc
Scilly (St. Mary's)	1014.5	0	SW'S	3	bc	56	85	8	8	4	-	4-6	4-6	1800	1	2	bc	bccbc	bcc	cr₀bc
Guernsey																				
Pembroke	1011.4	-2	SW	6	c	56	75	7	8	7	-	4-6	9	2000	1	3	bcpr	bcc	cprq	cq
Holyhead	1008.7	-2	SW	4	c	55	85	8	7	3	6	2-3	7-8	2500	1	3	bbcc	cipbc	bwbc	bcir₀c
Chester (Sealand)	1010.3	+2	-		c/pr	52	85	6	9	-	-	9	9	1500	1	*	cbcy	bcypr₀	cpr₀bmo	bmocmo
Manchester	1010.2	+2	SW	3	c/pr	52	75	6	5	7	-	4-6	9+	2500	1	*	cbc	bcqcpr	cm₀r₀bcm₀	cmo
Spurn Head	1010.6	+4	SSW	3	bc	52	75	6	-	4	1	0	4-6	-	0	2	bczc	c	bc	c
Catterick	1009.0	+4	WSW	1	pr	51	85	8	2	-	-	9	9	2000	1		bcbcy	bccpr	pr₀bcc	cbcm₀
Tynemouth	1007.2	+8	SW	3	bc	52	75	6	8	3	-	2-3	4-6	3200	1	1	bc	bcgbc	bc	bcc
St. Abbs Head	1005.1	+8	W	3	bc	49	75	9	4	4	8	2-3	4-6	2500	0	2	bcpr	pr₀bc	bcc	c
Leuchars	1004.1	+12	WSW	3	c	48	85	8	2	-	7	2-3	10	3200	1	*	bccpr₀	cpr₀bcc	bc	bcwbbccir₀
Renfrew (Abbots I.)	1005.0	+4	SW'S	2	c	50	80	6	4	7	-	Tr	7-8	4000	1	*	bcpr₀cpr	cPR pr	cbccm₀	bcz₀rRr₀
Eskdalemuir	1006.3	+10	W	3	c	47	75	8	5	7	-	4-6	7-8	1500	1	*	cbccpr	cprbc	bc	bcor₀
Point of Ayre	1007.3	0	WSW	4	bc	50	85	8	4	4	1	1	2-3	2500	0	3	bcc	bc	bc	cr₀r₀
Tiree	1000.6	-6	SW'S	5	c	53	85	7	8	-	-	9+	9+	1500	1	5	prbc	c	oirtl.	iRbc
Stornoway	998.0	-10	SW	5	c/pr	50	75	7	8	7	-	7-8	9+	1000	1	3	cbccpr	cpr	crr	crrprbc
Dalwhinnie																*	cbcc			ciro
Aberdeen																	bbc		bbc	bcc
Wick																	cz		bc	
Lerwick	997.9	+2	W'S	4	c/pr	47	75	8	8	7	-	4-6	7-8	1500	1	*	bcpr₀pp	cpr	cbc	bccir₀
Blacksod Point	1003.6	-16	S'W	5	bc	55	75	8	3	-	-	2-3	2-3	2500	0	3	bcc	cbc	rrcq	⊕
Malin Head	1002.8	-8	SSW	3	c	52	85	8	8	-	-	7-8	7-8	5700	0	2	cpr₀jpcc	c	c	cpr₀prcjp
Aldergrove	1005.8	-4	SW	2	c	51	75	8	4	-	7	2-3	10	3000	1	*	prb,bc,cbc	bcc	c	ccrrmo
Birr Castle	1008.3	-2	SW	1	bc	52	75	8	5	-	-	4-6	4-6	2500	1	*	cpcc	cbc	bc	orrc
Valentia Obsy. †	1008.2	-10	SSW	3	c	54	75	9	7	4	2	2-3	7-8	2500	1	3	cpcbcr	bcbrbcc	cbbccpr₀	pr₀crrr₀
Roches Point	1010.2	-2	W	3	bc	55	85	9	3	-	4	2-3	4-6	2500	1	3	bcprc	p₀cbc	prbc	cirRR

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. r₀, slight rain. rrr, 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.

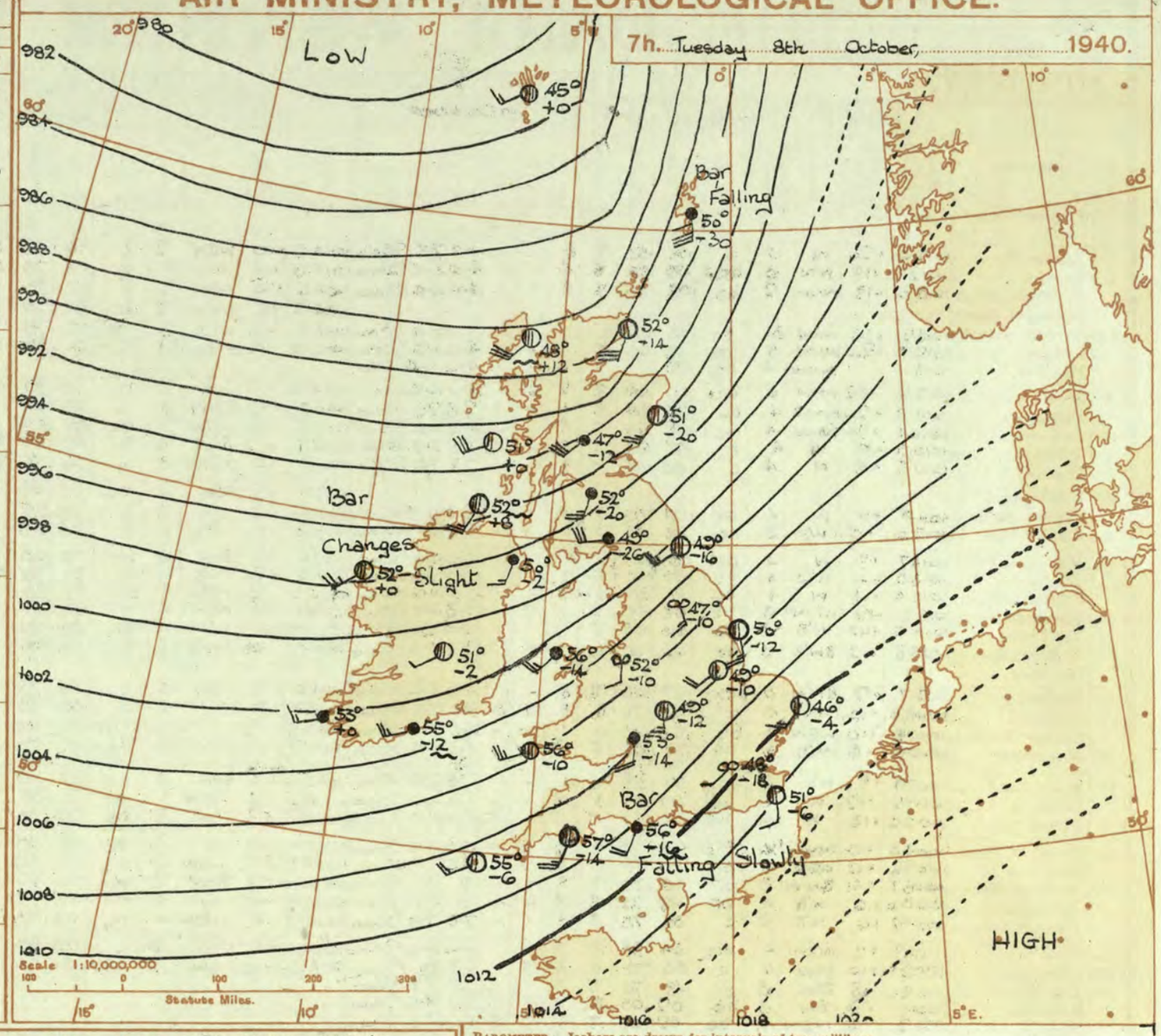
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 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				87	10954	22185	50	14861	49518	52	02764	34527
115	85	88964	24585	85	88954	22585	51	14854	53585	87	14734	53687
203							6-	54728	49768			
206							51	01863	55424	5-	61858	24468
210				84	00863	24203	5-	22858	14418			
220	23	01954	26404	93	03845	25416				54	14853	24614
230				87	10864	20487	52	64745	51568	6-	22736	20566
245				40	00981	22223	61	01764	51325	57	02743	51427
260	9-	81756	20417	84	01761	20383	01	01890	51413	51	61765	51416
277							02	02790	17618	62	62734	51668
279							--	00763	20513	--	62656	24666
285	20	01844	24614							9-	02637	18587
288	26	01855	24325	80	81854	20384	50	01853	18364	57	05653	17415
273	18	01762	22503							16	01662	17284
301	26	01963	57414	83	25655	22486	5-	01753	16215	03	05690	16415
321	--	01664	24314	57	05662	20213	67	05690	22313			
299				50	05653	22213	50	05643	20314	5-	05554	20415
292	54	01854	55414	96	01754	22313	67	01790	16114	5-	02648	16268
310	--	01634	24414							--	57169	20543
316	80	01768	24313	44	05661	22213	57	62664	20466	57	61665	20227
333	24	01964	24415	26	82746	21487	20	01754	20434	52	02744	20428
334												
340	20	01964	22314	40	01963	20213	50	01764	20414	57	22756	16367
136	20	01754	22414	50	01761	20202	00	01790	21314	57	02775	18416
336	--	02853	24415	--	02853	24416				--	64434	20468
350	10	01854	22814	40	00851	20212	03	01790	22303	02	05690	18305
368	10	01863	24413							67	22843	16267
379	10	01864	24314	40	01861	20201	40	05661	20301	03	01790	18314
390	8-	01855	26315				04	46890	20142	04	05590	16344
382	10	01864	22814	10	00861	22301	04	05690	00001	53	01764	12114
438	80	01863	24513							87	02864	23515
430	10	01753	26414	10	00861	22301	50	05652	00003	53	01753	16314
409	10	00851	20412	53	01953	18314	50	01755	16415	54	02834	18466

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 8th October, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh SSW wind, strong locally on coast, veering slightly; cloudy, a period of rain evening or early night, then bright intervals and local showers; average temperature.
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	Fresh or strong SW wind, veering WSW; rain at first, then bright intervals and showers with local hail and thunder; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh or strong SW wind; occasional heavy rain with local hail and thunder, some bright intervals; average temperature.

GENERAL INFERENCE.

A deep depression near SE Iceland is moving ENE and an associated trough will cross the British Isles.
It will be accompanied by rain and followed by bright intervals and showers, heavy in the West, with local thunder.

FURTHER OUTLOOK.

Unsettled; wind SW to W, strong at times a gale locally.

Gale warning issued 2340h. 7/10 in districts 13A, 13B, 17 (part of) 18 (part of) and at 0530h. 8/10 in 15, 16.

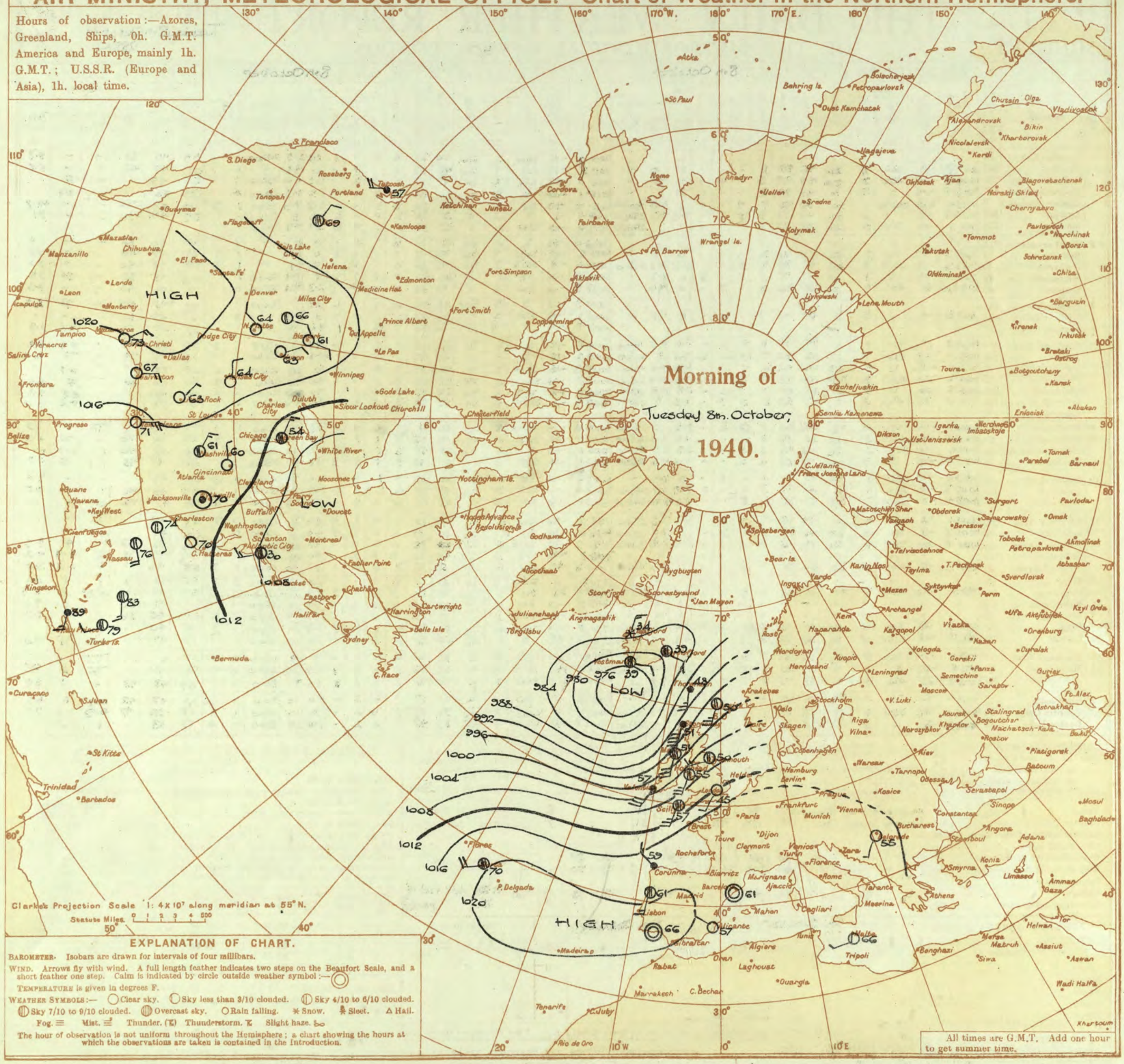
Forecasts issued at 10.30. G.M.T.

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

H.M.S.O. Press, Cornwall House S.E.1.

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

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.



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

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 8th October 1940.

No. 28810

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	1014·7	-4	SW	1	zo	45	97	6	-	-	-	0	0	-
	S. Farnborough	226	1014·3	-14	S'W	2	zo	44	97	6	-	4	-	0	Tr	-
	Boscombe Down	417	1013·9	-14	S	3	b	45	92	7	-	-	1	0	1	-
	Calshot (Sthmtn.)	8	1014·5	-10	SW'W	1	bc	50	85	7	4	-	1	1	2-3	4000
	Lympne ...	346	1015·8	-2	-	0	bc	45	55	9	5	-	-	2-3	2-3	3500
	Manston ...	154	1016·1	-6	SW	2	zo	45	85	6	5	-	-	1	1	3000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1014·6	-10	SW	3	zo	50	85	6	-	-	-	0	0	-
	Gorleston ...	5	1013·6	-4	SW'S	3	bc	47	85	6	5	-	-	2-3	2-3	2500
	Mildenhall ...	19	1012·9	-10	S'W	3	bc	47	75	7	-	-	8	0	2-3	-
	Cranwell ...	240	1011·5	-6	SW	4	zo	49	85	6	-	7	-	0	4-6	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013·6	-8	-	0	b	44	92	7	-	4	-	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010·8	-14	SW	4	c	55	85	8	4	-	-	7-8	7-8	1500
	Bristol ...	209	1012·9	-14	SSW	4	c	52	92	7	5	-	6	7-8	9	6500
	Portland Bill ...	32	1013·8	-12	W	4	bc	56	92	8	5	-	-	4-6	4-6	4000
	Plymouth ...	82	1012·6	-20	SSW	5	bc/r	57	85	7	8	-	-	4-6	4-6	2500
	The Lizard ...	240	1012·5	-20	S	5	c	55	97	7	8	2	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	1011·0	-22	S'W	5	c	57	85	8	5	7	-	4-6	9	1500
	Guernsey ...	175														
6	Pembroke ...	142	1009·3	-16	SW	6	cq	56	92	7	8	2	-	7-8	10	1500
7	Holyhead ...	26	1006·7	-14	SW'S	5	bc	55	75	8	5	-	-	4-6	4-6	2800
	Chester (Sealand)	16	1008·6	-14	SSE	2	zo	48	92	6	5	-	-	2-3	2-3	4000
8	Manchester ...	70	1008·9	-10	S	3	zo	49	85	6	5	-	-	4-6	4-6	2500
10	Spurn Head ...	29	1009·2	-10	S'W	3	bc	49	75	6	-	4	-	0	2-3	-
	Catterick ...	175	1007·3	-10	SSE	1	c	50	85	7	4	-	7	7-8	10	1500
	Tynemouth ...	108	1007·4	-10	WSW	3	bc	50	85	6	5	-	-	4-6	4-6	3000
11	St. Abbs Head	280	1004·1	-12	SE	2	c	44	92	8	4	2	-	4-6	7-8	2500
	Leuchars ...	36	1001·8	-18	SW	3	bc	46	85	7	5	7	-	1	2-3	3500
12	Renfrew (Abbots I.)	19	1001·4	-24	SSW	4	zo	51	75	6	5	1	-	7-8	7-8	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1005·3	-12	SW	3	bc	50	85	8	5	1	-	1	4-6	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	989·5	-40	SSW	8	rr	51	85	6	8	2	-	7-8	10	900
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	996·3	-28	SW	5	cq	51	75	7	5	2	-	7-8	10	1500
16	Lerwick ...	156	996·7	-14	SSW	5	bc	50	85	8	5	-	-	4-6	4-6	1500
17	Blacksod Point	18	997·1	-24	SW	7	cq	54	85	7	9	-	-	9	9	800
18	Malin Head ...	84	996·5	-28	S	6	c	51	85	8	8	-	-	7-8	7-8	4000
	Aldergrove ...	268	1002·3	-22	S'W	4	c	50	75	8	5	7	2	4-6	7-8	3000
19	Birr Castle ...	173	1003·7	-20	SW	5	bc	51	85	8	-	4	-	0	2-3	-
20	Valentia Obsy.	30	1004·2	-26	SSW	6	pr	57	85	8	8	-	-	7-8	7-8	2500
	Roches Point	22	1006·9	-20	W	4	bc	53	85	8	5	-	-	2-3	2-3	2500

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)	1011·2	-18	SSW	2	zo	50	85	6	5	-	1	2-3	2-3	2500	1	*
	Croydon ...	1011·3	+18	SW	4	zo	48	85	6	-	7	-	0	4-6	-	1	*
	S. Farnborough	1011·3	-18	SSE	2	bc	47	97	7	7	3	-	2-3	4-6	2500	1	*
	Boscombe Down	1010·1	-18	S	4	c	52	92	7	8	4	1	7-8	7-8	1800	0	*
	Calshot (Sthmtn.)	1011·4	-10	S'E	4	c	56	85	8	5	7	-	7-8	7-8	1900	1	3
	Lympne ...	1014·4	-6	S	2	c	51	75	8	5	-	6	4-6	9	4000	1	*
	Manston ...	1014·0	-10	SSW	2	c	47	85	7	5	4	6	2-3	7-8	1800		*
2	Shoeburyness ...	1012·0	-12	S	3	bc	52	75	8	-	3	1	0	2-3	-	1	*
	Felixstowe ...	1012·2	-14	SW'S	4	bc	52	75	7	-	4	8	0	2-3	-	1	1
	Gorleston ...	1012·4	-4	SW'S	3	bc	46	92	6	-	5	-	0	4-6	-	1	2
	Mildenhall ...	1010·4	-14	S'E	3	c	46	85	7	5	7	6	1	7-8	5000	1	*
	Cranwell ...	1008·8	-10	SW	4	c	49	85	7	5	7	1	2-3	7-8	5500	0	*
3	Birmingham ...	1007·9	-12	S	3	c/pr	49	92	6	3	-	6	2-3	9	1500	1	*
	Upper Heyford	1010·3	-18	S'W	2	c	46	85	7	-	4	9	0	7-8	-	0	*
4	Ross-on-Wye	1007·7	-14	S	4	pr	53	85	7	6	1	1	4-6	9+	1500	1	*
5	Hartland Point	1006·7	-12	SW	4	c/r	55	55	8	8	6	-	4-6	9	1500	1	3
	Bristol ...	1009·2	-18	S	4	c	55	85	7	5	3	1	4-6	7-8	3500	1	*
	Portland Bill ...	1009·8	-16	SSW	4	ir	56	92	7	5	-	-	10	10	1500	1	4
	Plymouth ...	1008·7	-14	SSW	5	c/d	57	85	6	5	-	-	9+	9+	1400	1	3
	The Lizard ...	1009·5	+2	W'S	4	bc	54	97	8	4	-	-	2-3	2-3	2000	0	2
	Scilly (St. Mary's)	1008·8	-6	SW'W	4	bc	55	92	8	5	4	-	2-3	4-6	1500	1	3
	Guernsey ...																
6	Pembroke ...	1006·0	-10	SW'W	5	cq	56	85	8	6	7	1	2-3	7-8	1500	1	3
7	Holyhead ...	1002·7	-14	SW'S	5	ir	56	85	8	5	7	-	2-3	9+	2000	1	3
	Chester (Sealand)	1005·2	-10	S	2	zo	52	85	6	5	-	7	2-3	10	3500	1	*
8	Manchester ...	1005·5	-14	S'W	4	c	51	92	7	5	3	2	4-6	9	2800	0	*
10	Spurn Head ...	1007·2	-12	S'E	5	c	50	85	7	5	9	-	4-6	9+	4000	0	3
	Catterick ...	1004·4	-10	SSE	3	zo	47	97	6	5	7	9	7-8	9	1500	1	*
	Tynemouth ...	1003·6	-16	SW	5	c	49	85	6	2	4	1	4-6	7-8	3000	1	1
11	St. Abbs Head	998·5	-20	SSW	5	c	48	85	8	4	5	4	4-6	9	2500	0	2
	Leuchars ...	996·5	-20	S	5	ir	51	75	6	5	7	8	4-6	9	2200	0	*
12	Renfrew (Abbots I.)	996·8	-20	SSW	5	rir	52	85	6	6	2	-	9+	10	900	1	*
	Eskdalemuir ...	998·8	-26	W'S	6	rir	49	92	6	6	2	-	9+	10	800	1	*
	Point of Ayre ...	1000·6	-22	S'W	5	rr	53	92	7	6	2	-	2-3	10	1500	1	3
13A	Tiree ...	991·7	0	SW'W	6	bc	51	75	8	5	-	-	2-3	2-3	2500	0	5
13B	Stornoway ...	988·4	+12	SW	6	c/pr	48	85	7	8	-	9	4-6	9+	1100	1	4
15	Dalwhinnie ...	993·9	-12	SW	6	ir	47	92	6	6	2	-	4-6	10	1500	1	*
	Aberdeen ...	995·2	-20	SW'S	5	c	51	75	7	5	7	-	1	9	1500	1	2
	Wick ...	990·7	-14	SSW	6	cq	52	75	8	5	7	8	7-8	9	1500	1	2
16	Lerwick ...	991·5	-30	S	8	ir	50	85	6	8	2	-	7-8	10	1500	1	*
17	Blacksod Point	997·6	0	SW	5	c	52	65	8	3	-	-	9	9	1500	0	3
18	Malin Head ...	994·7	+8	SSW	5	c	52	85	8	6	8	1	4-6	7-8	2500	0	4
	Aldergrove ...	998·7	-2	SSW	3	pr	50	92	8	8	7	2	4-6	9	800	1	*
19	Birr Castle ...	1001·2	-2	SW	1	c	51	97	7	6	2	-	4-6	10	1500	1	*
20	Valentia Obsy.	1002·0	0	WSW	3	ir	53	97	7	6	2	-	9+	10	1500	1	3
	Roches Point	1002·5	-12	WSW	5	RR	55	97	7	6	2	-	7-8	10	800	1	4

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)	59	45	31	-	-	8·8
	Croydon ...	61	44	42	-	-	8·5
	S. Farnborough	59	46		-	Tr	
	Boscombe Down				-	0·1	
	Calshot (Sthmtn.)	60	48	42	-	-	10·7
	Lympne ...	62	44	30	-	-	9·1
	Manston ...						
2	Shoeburyness ...	62	46	32	-	-	9·1
	Felixstowe ...	61	49	44		-	9·9
	Gorleston ...	59	45	40	-	-	9·2
	Mildenhall ...	60	45	37	-	Tr	9·8
	Cranwell ...	58	46	43	-	-	9·3
3	Birmingham ...	58	47	44	*	Tr	9·2
	Upper Heyford	61	43	30	-	-	*
4	Ross-on-Wye	60	50	44	-	Tr	9·4
5	Hartland Point	57	51	49	-	0·6	8·2
	Bristol ...	58	47	42	-	Tr	10·3
	Portland Bill ...	59	54	*	-	0·1	*
	Plymouth ...	60	56	56	-	Tr	9·5
	The Lizard ...	60	51	*	-	0·5	9·3
	Scilly (St. Mary's)	61	53	*	-	0·2	10·0
	Guernsey ...						
6	Pembroke ...	58	50	*	Tr	9	8·9
7	Holyhead ...	58	53	50	-	Tr	6·5
	Chester (Sealand)	60	47	40	1	0·1	6·1
8	Manchester ...	59	47	43	0·1	Tr	5·7
10	Spurn Head ...	56	48	*	-	-	9·4
	Catterick ...	57	46	42	1	1	7·5
	Tynemouth ...	56	47	42	0·1	-	*
11	St. Abbs Head	54	44	*	Tr	-	*
	Leuchars ...	55	44		0·1	-	
12	Renfrew (Abbots I.)	55	46	37	1	4	4·4
	Eskdalemuir ...	52	43	39	2	0·4	4·2
	Point of Ayre ...	58	46	*	-	0·5	9·5
13A	Tiree ...	55	49	*	1	4	6·1
13B	Stornoway ...	54	46	*	0·5	5	5·4
15	Dalwhinnie ...		41	33		6	4·3
	Aberdeen ...	57	45	36		-	7·7
	Wick ...	54	40	*		-	*
16	Lerwick ...	53	47	*	0·2	Tr	7·0
17	Blacksod Point	57	*	*	Tr	1	*
18	Malin Head ...	56	47	*	Tr	2	5·4
	Aldergrove ...	57	48	43	-	1	6·8
19	Birr Castle ...	58	47	42	0·1	2	6·1
20	Valentia Obsy.	59	52	47	0·2	5	7·1
	Roches Point	59	53	*	1	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	cmobcy	bybzoy	bzoymow	59	45	31	-	-	8·8	*	*	8
Croydon ...	217	bccmbcy	bcyby	bc	61	44	42	-	-	8·5	*	*	7
Greenwich (Royal Observatory) ...	149												
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	61	48	41	-	-		63	79	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	60	48	41	-	-		77	70	*
Camden Square ...	110			*						*	*		*
Kensington ...	80	b	bc	*	61	47		-	Tr		39	73	*
Hampstead Observatory ...	450										*		*

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.
0·1	18-22h 7th	40·1	rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 7th October Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 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.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...											*	*		

‡ 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 ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

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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 9th October 1940.

No. 28811

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)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018·1	-22	SSW	4	iro	58	85	8	8	-	-	7-8	9+	1500
	Croydon	1008·4	-20	SSW	3	c	59	85	7	9	-	2	7-8	9	2500
	S. Farnborough	1008·0	-20	SWS	4	c/pp	60	75	8	8	3	6	2-3	9+	2500
	Boscombe Down	1007·4	-12	SW	4	c	62	65	9	1	-	6	4-6	7-8	3000
	Calshot (Soton.)	1008·9	-10	SWW	5	c	62	75	8	8	3	6	2-3	7-8	3500
	Lympne														
	Manston	1011·7	-14	SSW	5	o/p	55	85	8	5	-	-	10	10	1500
2	Shoeburyness	1010·3	-20	S'W	4	c	58	85	8	8	-	-	9	9	1500
	Felixstowe	1009·4	-20	SSW	6	c	61	95	7	5	-	-	9	9	4000
	Gorleston	1009·8	-16	SSW	5	e	60	65	7	8	4	-	4-6	7-8	2500
	Mildenhall	1007·6	-20	S'W	5	id	59	75	6	6	2	-	7-8	10	1500
	Cranwell	1006·2	-12	SSW	4	c/d	58	85	7	5	7	-	7-8	10	2000
3	Birmingham	1005·6	-8	SW	3	e	60	55	8	7	-	7	4-6	9+	2500
	Upper Heyford	1007·1	-16	W	4	c/p	59	75	8	8	4	8	7-8	9+	1800
4	Ross-on-Wye	1006·2	-8	SW	4	pp	57	75	8	8	-	7	4-6	9+	2500
5	Hartland Point	1005·0	-14	WSW	5	c	58	75	8	8	-	7	4-6	9+	1500
	Bristol	1007·5	-6	WSW	3	bc	60	65	8	7	3	7	4-6	4-6	2500
	Portland Bill														
	Plymouth	1008·4	-6	SSW	4	c	59	85	8	8	7	-	7-8	9+	1800
	The Lizard	1008·1	-10	SSW	4	c	59	85	8	5	2	-	7-8	9+	1500
	Scilly (St. Mary's)	1006·3	-14	SSW	4	c	61	85	8	5	7	-	4-6	9+	1500
	Guernsey														
6	Pembroke	1004·3	-6	SW'S	6	cq	58	92	7	6	2	-	7-8	9+	1600
7	Holyhead	1001·0	-10	SW	4	pp	55	97	7	6	2	-	7-8	10	800
	Chester (Sealand)	1003·6	-10	SW'S	4	pp	61	65	8	8	1	-	7-8	9+	2200
8	Manchester	1003·6	-10	S	4	c	59	75	7	5	1	-	4-6	10	2500
10	Spurn Head	1003·8	-10	S'E	5	e	56	75	6	5	-	-	9	9	4000
	Catterick	1002·0	-12	SSW	3	e	59	65	7	5	7	-	7-8	10	2200
	Tynemouth	1001·6	-6	SW	4	e	57	75	6	8	-	-	9+	9+	2500
11	St. Abbs Head	996·5	-6	SW	5	c/pp	57	75	8	8	7	-	4-6	7-8	2500
	Leuchars	996·6	+2	WSW	5	c	56	65	7	8	9	-	4-6	9+	2200
12	Renfrew (Abbots I.)	997·6	+2	SWW	4	c	55	65	8	2	7	2	4-6	7-8	2000
	Eskdalemuir	997·8	-2	W	6	roro	51	85	7	6	2	-	4-6	10	800
	Point of Ayre	999·8	-8	WSW	4	c	56	92	8	8	-	7	2-3	10	1500
13A	Tiree	993·1	+4	SW'W	6	bc/pr	53	75	8	8	6	-	4-6	4-6	1800
13B	Stornoway	988·2	+12	SSW	7	bc	52	65	7	8	-	3	2-3	2-3	800
15	Dalwhinnie	995·5	+8	SSW	4	bc	50	65	7	2	-	-	2-3	2-3	2500
	Aberdeen	995·8	-2	W'S	4	bc/pp	56	65	8	8	-	9	2-3	2-3	2500
	Wick														
16	Lerwick	992·0	+14	SSW	6	c	53	75	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	997·8	+2	SSW	4	c	54	75	8	3	-	9	2-3	9	1500
18	Malin Head	996·2	+6	W'S	5	c	55	65	8	2	6	-	4-6	7-8	4000
	Aldergrove	998·6	-2	SSW	4	c	54	75	8	9	7	7	7-8	9+	1500
19	Birr Castle	1000·8	-2	WSW	2	c/p	56	75	7	3	2	-	2-3	10	1500
20	Valentia Obsy. †	999·9	-18	SSW	3	iro	56	85	8	5	2	-	4-6	10	1500
	Roches Point	1001·0	-12	SW	3	c	57	85	8	5	1	-	7-8	9	1500

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)	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)	1007·3	-2	SSW	2	c	56	75	7	-	7	-	0	7-8	-	1	*
Croydon	1007·4	-6	SSW	2	z	55	85	6	4	7	-	2-3	9	3000	0	*
S. Farnborough	1007·2	-6	SW'S	2	c	55	85	7	-	3	-	0	9	-	1	*
Boscombe Down	1006·2	-14	S	4	c	54	85	8	5	7	-	4-6	9	2000	1	*
Calshot (Soton.)	1007·2	-16	S'W	3	ct	58	85	7	8	3	2	4-6	9+	1100	1	2
Lympne																§
Manston	1009·5	-10	SSW	3	c	55	92	7	-	7	9	0	9+	-		*
Shoeburyness	1008·6	-8	S'W	4	c	57	85	8	5	3	-	2-3	9	5700	0	*
Felixstowe																
Gorleston	1007·3	-12	SSW	4	c	56	92	6	5	7	-	4-6	9+	2300	1	4
Mildenhall																*
Cranwell	1005·0	-2	SSW	4	c	55	75	7	5	-	7	4-6	9+	2500	1	*
Birmingham																*
Upper Heyford	1006·0	-4	SSW	3	c	56	75	8	6	3	9	2-3	9	2500	1	*
Ross-on-Wye	1004·3	-8	S'W	3	c	57	75	8	5	1	-	9	10	2500	1	*
Hartland Point	1002·0	-20	SW	3	c	56	75	8	5	7	-	4-6	9+	2000	0	3
Bristol	1005·3	-10	S	3	c	56	75	7	5	7	-	4-6	9+	3500	0	*
Portland Bill	1007·0	-22	S	4	iro	57	92	7	5	-	-	10	10	2500	1	4
Plymouth	1003·7	-32	S'E	4	c	57	75	7	7	1	-	4-6	9+	1500	0	2
The Lizard	1002·3	-40	S'E	5	c	55	92	8	8	2	-	7-8	9+	2000	0	3
Scilly (St. Mary's)	1000·9	-32	S'E	4	c	56	92	8	5	7	-	7-8	10	1500	1	3
Guernsey																
Pembroke	1000·9	-20	SW	4	cq	55	97	7	5	-	-	10	10	1500		
Holyhead	999·1	-14	S'W	3	iro	55	97	6	5	2	-	9	10	500	1	2
Chester (Sealand)	1001·6	-8	S	2	c	57	85	6	5	1	-	4-6	10	4000	1	*
Manchester	1002·1	-4	S'E	3	c/p	57	75	6	5	7	-	4-6	10	2500	1	*
Spurn Head	1002·9	0	SE	3	c	55	92	6	5	4	4	4-6	7-8	4000	0	2
Catterick	1001·4	-2	SSW	2	c	56	85	7	5	7	-	7-8	9+	2000	1	
Tynemouth	1001·5	+6	SW	3	c	55	65	6	2	3	-	4-6	7-8	2800	1	1
St. Abbs Head	999·2	+10	SW	2	c/pr	50	75	8	5	7	-	4-6	9	2000	1	1
Leuchars	997·8	+2	WSW	2	bc	51	75	7	-	7	6	0	4-6	-		*
Renfrew (Abbots I.)	998·1	+4	S'W	2	c	52	85	8	5	7	6	tr	9+	4500	1	*
Eskdalemuir	998·1	+4	SW	3	c	48	85	7	5	1	-	7-8	9+	1500	1	*
Point of Ayre	999·1	-6	SSW	2	c	53	92	8	8	7	7	tr	10	1500	1	2
Tiree	994·2	+4	SW'W	4	bc	52	85	8	8	6	8	2-3	4-6	2100	0	5
Stornoway	991·8	+20	WSW	4	c/pr	47	85	8	8	7	-	7-8	9+	1500	1	2
Dalwhinnie	997·4	+10	SSW	1	c	44	85	8	4	1	-	4-6	7-8	2500	1	*
Aberdeen	997·4	+14	S	2	bc	51	75	6	5	-	9	tr	4-6	4000	1	2
Wick	994·1	+16	W	4	bc	50	65	8	5	4	2	2-3	4-6	2500	1	2
Lerwick	992·2	+4	SSW	6	bc	51	85	8	6	4	-	4-6	4-6	1500	1	*
Blacksod Point	995·8	-14	S'E	1	c	52	75	7	-	1	-	0	10	-	0	3
Malin Head	995·9	-2	W	3	c	48	85	8	8	-	-	7-8	7-8	5700	0	4
Aldergrove	997·5	-10	SSE	2	c	52	75	7	5	2	-	9+	10	5700	1	*
Birr Castle	998·4	-20	S	1	iro	53	85	7	6	2	-	4-6	10	2500	1	*
Valentia Obsy. †	994·0	-38	SE'S	3	jro	54	85	8	5	2	-	4-6	10	1500	1	3
Roches Point	999·9	-34	SSW	5	rr	56	97	6	6	2	-	7-8	10	800	1	4

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 8th (37)	13h.–18h. 8th (38)	18h. 8th to 1h. 9th (39)	1h.–7h. 9th (40)
London (Kew)	ccir	r	ccidoc	crorrocroc
Croydon	bcddc	cm		ororor
S. Farnborough	bccddPR	ct°	cdodomo	cRrrroc
Boscombe Down	crrm pro	c	ciropr	crororr bc
Calshot (Soton.)	cPRmc	bcct	cprqc	orrroDD mc
Lympne				
Manston	bccRgr	cgdc		
Shoeburyness	bbcc	c	cidobc	bccirmo
Felixstowe	bvcv		c	c,ir,do
Gorleston		cq	cbccq	coiroq
Mildenhall	cwcemgRo		cmoirocmo	crrroromo
Cranwell	cidiroc		c	pro,roromo
Birmingham	cpro		cr	oir
Upper Heyford	ciroc	c	airoccmo	crorodddodo
Ross-on-Wye	cdcc	cbccgr	coro	rrc
Hartland Point	c	c	cir	rrbcp (gale)
Bristol	cidbcpro	c	cdoirroro	cRrrroro
Portland Bill		orb	c	orr
Plymouth	cmbcc	c		bccypc (gale)
The Lizard	bcoc	c	crr	rrcq (gale)
Scilly (St. Mary's)	bcc	c	crr	bccq
Guernsey				
Pembroke	doqc	cprq	cmorrq	b
Holyhead			crrmoc	Rqprc
Chester (Sealand)			c,iro	roromo
Manchester				cmoiro
Spurn Head	cpro	e	c	qro
Catterick	cmczc	ciromc	moirocmo	morrroro
Tynemouth	bcc	coiroc	co	oir
St. Abbs Head	cpro	cpr	croro	crrmo
Leuchars	cirocbcc	cbcmoybc	bcnbcrocorrmo	orrmoRirocmo
Renfrew (Abbots I.)		c	cmoroorRRz	
Eskdalemuir	rkcro	cro6PR	crrroro	roroR
Point of Ayre	cir	kroc	crrrr	rr
Tiree	bcprq	bc	bcc	orrR
Stornoway	bccPR	bccPR	bccprl	cpr
Dalwhinnie	cprbc	bcprc		cro
Aberdeen	cprobc	bcz	bcczo	rrciro
Wick		bc		bcrrq
Lerwick	cirorr (gale)	cbc	cprbc	bcc
Blacksod Point	c	c	rr	rr
Malin Head	bcc	c	ccprocrorc	orrcirc
Aldergrove	cpgcprc	c	rorormoc	rrmoRRm
Birr Castle	cpp	ciro	cprbc	orr
Valentia Obsy. †	ciro	ciro	iroirR	iR.irroroiro
Roches Point	c	iRrr	iroc	rriroc

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. r₀, 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.

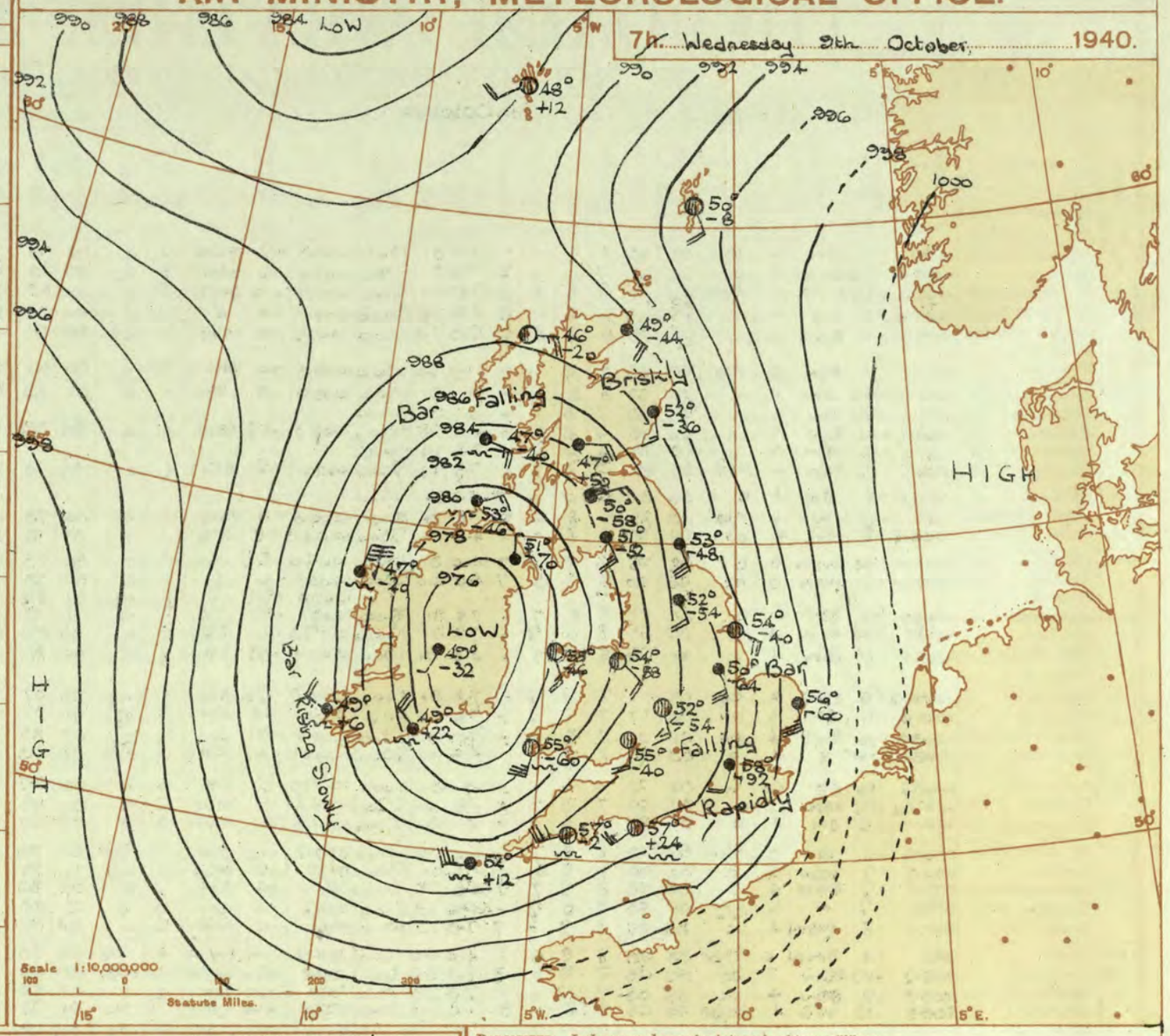
COLUMN 29.—STATE OF GROUND.

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. Wednesday 9th October 1940.



Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 8th October.			18h. G.M.T.			01h. G.M.T. 9th 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				47	01853	19513	50	00861	16401	62	62644	10368
115	87	88844	53685	87	88844	53685	52	02854	20483	87	62734	12327
203												
206	20	01863	55613	84	01862	22313	01	02880	23218	5-	62748	00068
210												
220	83	27854	23684									
230							02	64748	14368	52	64742	08268
245				50	05661	20223	52	22685	00068	52	62647	45568
260	60	02855	55427	40	01861	20114	52	22645	08268	52	61646	08268
277	52	51855	18468	87	02861	13268	62	62647	14468	62	62637	45768
279							--	05653	20465			
285	6-	63638	22668	3-	02787	24427				6-	64638	10568
288	57	05654	49527	57	22655	18228	51	03654	15327	62	62746	12568
273	38	01753	19384							32	03554	28167
301	57	61745	51468	52	62646	20368	62	22645	47468	62	62625	12668
321	51	02664	18328	51	05662	14328	52	22655	16368	6-	62628	46468
299	5-	21847	20557	5-	05546	20316	50	05554	20414	62	62643	49768
292	51	05643	14227	57	05664	16327	02	63648	16268	6-	62638	12368
310	--	02638	20428							--	67109	20569
316	81	22646	18368	51	02653	17328	5-	05658	16468	62	62636	10568
333	62	62635	20468	27	02755	18428	5-	64648	48568			
334												
340	80	02844	14418	87	81855	18488	62	51635	13488			
136	5-	22757	16467	45	05665	15266	5-	22657	17467	52	62545	43668
336	--	02854	20416							--	82743	20587
350	5-	02848	49428	47	02863	18327				6-	62528	14468
368	80	02854	56427	57	02854	17328				80	02857	16428
379	80	02754	20416	20	02854	18328	5-	05648	16428	5-	22638	16368
390	57	05636	16468	53	05578	19228	57	05654	16368	5-	62528	12468
382	83	02844	22428	47	02853	18327	5-	05648	45428	63	01823	19354
438	8-	02748	24528							62	22734	53767
430				43	02752	20325	57	05655	15628	50	01733	19664
409	57	02844	19527	57	02845	16528	5-	62628	49768	57	10737	53828

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th October, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Wind SW to W, strong to gale; showers and bright intervals; average temperature.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Gale from W or WNW, severe locally at first; cloudy, some rain, showers and bright intervals later; rather cool.
10 N.E. England	As 1-5
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind S veering SW to W, strong to gale; cloudy, occasional rain, bright intervals and showers later; rather cool.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Wind E changing to NW, strong to gale; rainy then showery; cool.
15 N. E. Scotland 16 Orkneys and Shetlands	Wind SE veering SW to W, strong to gale; rainy then showers and bright intervals; rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind NW strong to gale; rain then showers, bright intervals later; cool.

GENERAL INFERENCE.

A deep depression over Eastern Ireland will move NE or NNE rather slowly.

Weather will be stormy and unsettled with gales at exposed places.

FURTHER OUTLOOK.

Unsettled.

Gale warning in operation all coasts British Isles including Orkneys and Shetlands.

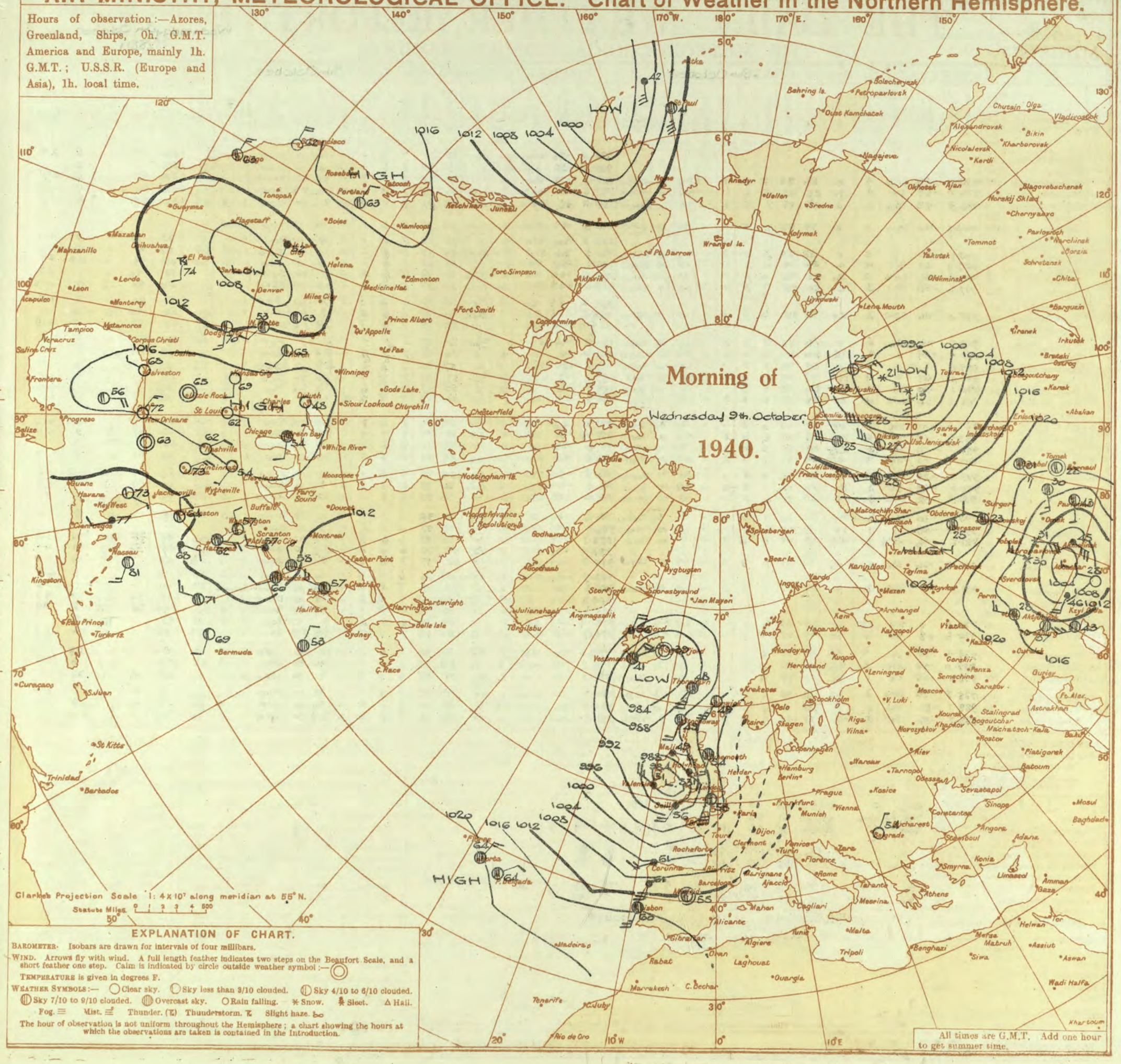
Forecasts issued at 1030 GMT.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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.



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

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 9th October 1940.

No. 28811.

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)	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														
	S. Farnborough	226	998·4	-48	SE'S	4	c	56	85	7	5	7	-	7-8	10	2600
	Boscombe Down	417	996·0	-54	S'E	4	pr	55	92	7	6	1	-	4-6	10	1000
	Calshot (Sthmtn.)	8	996·9	-58	SSE	6	c	58	85	7	5	2	-	4-6	10	3000
	Lympne ...	346														
	Manston ...	154	1003·1	-40	SSW	5	c	54	85	6	5	7	-	9+	9+	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1002·5	-38	S	5	c	57	85	7	5	7	-	4-6	10	2500
	Gorleston ...	5	1003·8	-28	S'E	4	c	52	92	6	5	-	-	10	10	2500
	Mildenhall ...	19	1000·9	-36	SE'S	2	zo	55	92	6	5	-	-	10	10	2000
	Cranwell ...	240	999·6	-38	SW	3	c	51	92	7	5	-	-	10	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	998·0	-46	SSW	3	zo	55	85	6	5	-	-	10	10	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	989·8	-66	S	5	ir	56	92	7	5	2	-	7-8	9+	1500
	Bristol ...	209	995·1	-44	S	4	iR	56	92	6	6	2	-	7-8	10	1500
	Portland Bill ...	32	995·5	-50	S	5	c	57	92	7	5	-	-	10	10	4000
	Plymouth ...	82	991·2	-64	S	4	rr	57	97	5	6	2	-	9+	10	700
	The Lizard ...	240	990·1	-50	SSE	6	rr	56	97	5	5	-	-	10	10	800
	Scilly (St. Mary's)	163	988·8	-30	SW'S	4	rr	56	97	6	6	2	-	7-8	10	800
	Guernsey ...	175														
6	Pembroke ...	142	989·2	-64	SSE	7	rr	57	97	6	6	-	-	9+	9+	800
7	Holyhead ...	26	989·8	-50	SE	5	rr	53	97	6	6	2	-	4-6	10	1000
	Chester (Sealand)	16	992·7	-56	SE	3	ro	54	85	6	6	2	-	9	10	1500
8	Manchester ...	70	1004·6	-50	SE	4	c/r	54	92	5	5	2	-	2-3	10	900
10	Spurn Head ...	29	999·2	-24	SE	4	c	53	92	6	5	-	-	9+	9+	4000
	Catterick ...	175	996·6	-34	S'E	2	zo	51	92	5	5	2	-	7-8	10	900
	Tynemouth ...	108	992·7	-32	SSW	3	o	54	85	6	5	-	-	10	10	3000
11	St. Abbs Head	280	995·4	-30	SSW	3	c/r	50	92	7	5	2	-	9	10	2000
	Leuchars ...	36	995·0	-28	E	1	rr	48	97	6	5	-	-	10	10	4000
12	Renfrew (Abbots I.)	19	992·5	-46	NE'N	3	RR	47	97	4	6	2	-	9	10	700
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	992·3	-26	S'W	5	iro	54	97	7	8	2	-	7-8	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	992·3	-2	SSW	3	c	49	85	7	5	7	-	7-8	9+	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	995·3	0	SW	4	bc	49	85	8	5	1	8	2-3	4-6	2500
16	Lerwick ...	156	995·6	+8	SW	5	bc	49	85	7	5	-	-	4-6	4-6	1500
17	Blacksod Point	18	988·4	-38	N	4	RR	49	92	6	6	-	-	10	10	4150
18	Malin Head ...	84	989·0	-40	E'N	3	ro	49	92	6	3	-	-	9+	9+	1500
	Aldergrove ...	268	988·6	-50	E'S	1	RR	51	97	4	-	2	-	10	10	2000
19	Birr Castle ...	173	985·5	-56	SSW	3	bc	52	92	8	3	-	-	2-3	2-3	1500
20	Valentia Obsy.	30	983·7	-30	NW	5	iR	51	97	6	6	-	-	10	10	1500
	Roches Point	22	983·7	-56	S'E	5	c/r	55	92	8	6	2	-	7-8	9	1500

OBSERVATIONS at 7 hr. G.M.T. 9th 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)	987·4	-44	SSW	4	c/r	58	92	7	5	-	-	10	10	1500	1	*
	Croydon ...	987·1	-92	S'W	4	rr	58	97	6	6	-	-	10	10	600	1	*
	S. Farnborough	988·2	-22	SW	6	c/r	59	85	9	5	7	-	9+	10	2000	1	*
	Boscombe Down	987·5	-12	SW	5	bcq	56	85	7	8	-	-	2-3	2-3	1200	1	*
	Calshot (Sthmtn.)	989·2	+6	SW'W	6	c	58	85	8	5	4	-	9	9+	1100	1	4
	Lympne ...																§
	Manston ...	992·6	-48	S'W	6	ro	56	97	5	6	-	-	10	10	100		*
2	Shoeburyness ...	990·8	-60	SSE	4	ir	57	97	5	6	-	-	10	10	800	1	*
	Felixstowe ...	990·8	-66	SSE	7	dd	55	97	6	5	-	-	10	10	800	1	4
	Gorleston ...	992·1	-60	S'E	7	ir	56	85	5	6	-	-	10	10	800	1	5
	Mildenhall ...	988·2	-66	SE	5	ro	52	97	6	6	2	-	9	10	200	1	*
	Cranwell ...	987·0	-64	SSE	6	ro	50	97	5	6	-	-	10	10	450	1	*
3	Birmingham ...	984·2	-54	SSE	3	c/r	52	97	6	6	-	-	10	10	800	1	*
	Upper Heyford	985·7	-54	S'E	4	dd	54	97	6	6	2	-	9	10	400	1	*
4	Ross-on-Wye	984·0	-40	S'E	4	c	55	92	7	9	-	-	7-8	7-8	1500	1	*
5	Hartland Point	980·8	-42	SW	8	c/pr	52	92	7	9	-	-	9	9	1500	1	4
	Bristol ...	986·0	-16	S	4	c	56	92	8	8	6	-	7-8	10	1500	1	*
	Portland Bill ...	988·7	+24	SW	5	c	57	92	7	5	4	-	4-8	10	2500	1	5
	Plymouth ...	987·1	-2	WSW	8	c/pr	57	75	7	8	-	-	9+	9+	1200	1	5
	The Lizard ...	988·7	+16	W	8	c	52	97	7	8	6	-	7-8	7-8	700	0	5
	Scilly (St. Mary's)	985·6	+12	W	7	ir	52	85	7	8	2	8	4-6	9	1000	1	4
	Guernsey ...																
6	Pembroke ...	979·2	-60	S'W	7	c/r	55	92	7	6	7	-	7-8	7-8	800	1	4
7	Holyhead ...	978·4	-46	SSE	5	cq	55	97	7	7	9	-	7-8	9+	2500	1	3
	Chester (Sealand)	981·0	-58	SE	4	c/r	54	92	6	6	2	-	9+	10	1000	1	*
8	Manchester ...	982·8	-62	ESE	4	ro	54	92	6	5	7	-	2-3	9	700	2	*
10	Spurn Head ...	986·8	-40	ESE	6	cq	54	85	6	5	-	-	10	10	2500	1	3
	Catterick ...	986·1	-54	SSE	4	ro	52	97	6	6	2	-	9	10	2200	1	*
	Tynemouth ...	988·1	-48	SSE	6	ir	53	92	6	8	-	-	10	10	2000	1	3
11	St. Abbs Head	985·6	-60	SE	6	cq	52	97	6	5	-	-	10	10	2000	1	3
	Leuchars ...	986·1	-44	ESE	4	c/r	53	97	6	5	2	-	9	10	1500		*
12	Renfrew (Abbots I.)	982·1	-58	ENE	3	rr	50	97	6	6	2	-	7-8	10	1200	1	*
	Eskdalemuir ...	982·4	-52	SSE	5	RR	51	92	6	6	2	-	7-8	10	800	1	*
	Point of Ayre ...	978·9	-64	SSE	7	c/r	55	97	7	6	2	-	9	10	800	1	4
13A	Tiree ...	982·9	-40	ESE	5	rr	47	92	6	-	2	-	10	10	800	1	5
13B	Stornoway ...	988·3	-20	E	5	c	46	85	7	5	2	-	4-6	10	2000	1	3
15	Dalwhinnie ...	984·8	-50	E	4	ro	47	97	6	6	2	-	7-8	10	1500	1	*
	Aberdeen ...	988·2	-36	S'E	3	ir	52	97	6	5	-	-	9+	9+	800	1	2
	Wick ...	998·8	-44	SE	5	rr	49	92	6	5	2	-	9	10	800	1	3
16	Lerwick ...	994·3	-8	SSE	4	c	50	92	7	5	7	-	4-6	7-8	800	1	*
17	Blacksod Point	983·3	-20	N'E	7	RR	47	92	6	6	-	-	10	10	4150	2	4
18	Malin Head ...	979·1	-46	NE'E	3	ir	53	92	6	9	-	-	9+	9+	800	1	4
	Aldergrove ...	975·7	-70	N	1	ir	51	97	6	5	7	1	9	9+	1500	2	*
19	Birr Castle ...	976·9	-32	SSW	1	rr	49	97	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy.	984·8	+6	NW'W	4	ir	49	85	7	6	2	-	9+	10	1500	1	4
	Roches Point	981·3	+22	NW	6	rr	49	92	7	6	2	-	7-8	9+	800	1	4

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 Yth. Hrs. (36)
1	London (Kew)	60	53	47	-	3	2·8
	Croydon ...	61	58		-	8	
	S. Farnborough	62	52	47	0·5	6	2·3
	Boscombe Down	62	52	50	-	7	2·5
	Calshot (Sthmtn.)	63	56	54	1	4	4·9
	Lympne ...						
	Manston ...						
2	Shoeburyness ...	61	53	48	-	2	4·1
	Felixstowe ...	67	53	51		2	5·9
	Gorleston ...	60	52	48	-	0·2	5·1
	Mildenhall ...		51	46		1	3·3
	Cranwell ...	61	50	48	Tr	4	0·4
3	Birmingham ...		51	50	*	6	1·5
	Upper Heyford	61	52	46	Tr	2	*
4	Ross-on-Wye	61	53	52	0·1	7	2·4
5	Hartland Point	59	52	51	-	5	2·6
	Bristol ...	61	53	48	0·3	5	3·5
	Portland Bill ...	58	55	*	0·0	10	*
	Plymouth ...	60	55		-	9	3·7
	The Lizard ...	59	50	*	-	12	4·4
	Scilly (St. Mary's)	61	52	*	-	18	1·7
	Guernsey ...						
6	Pembroke ...	59	54	*		27	0·0
7	Holyhead ...	57	52	51	8	9	0·0
	Chester (Sealand)	62	53		Tr	2	
8	Manchester ...	60	52	51	0·1	3	1·4
10	Spurn Head ...	58	52	*	0·3	0·2	0·2
	Catterick ...	59	50	49	Tr	3	1·4
	Tynemouth ...	58	53	49	0·5	1	*
11	St. Abbs Head	59	48	*	1	3	*
	Leuchars ...						
12	Renfrew (Abbots I.)	56	43	35	Tr	31	1·6
	Eskdalemuir ...	53	47	45	11	15	0·0
	Point of Ayre ...	58	52	*	1	16	0·0
13A	Tiree ...	55	45	*	0·2	9	6·1
13B	Stornoway ...	54	46	*	3	1	1·6
15	Dalwhinnie ...	51	40	34	4	12	4·2
	Aberdeen ...	56	44	38	Tr	7	2·1
	Wick ...	55	47	*	Tr	5	*
16	Lerwick ...	54	46	*	1	Tr	6·4
17	Blacksod Point	56	45	*	-	28	*
18	Malin Head ...	55	44	*	0·1	6	3·5
	Aldergrove ...	57	47	46	1	35	1·5
19	Birr Castle ...	56	49	47	1	7	0·0
20	Valentia Obsy.	56	48	46	1	9	0·0
	Roches Point	59	49	*	11	10	*

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	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	ccir	c	cidrrc	60	53	47	-	3	2-8	*	*	7
Croydon ...	217	bedde	cmo	orrrr	61	58		-	8		*	*	
Greenwich (Royal Observatory) ...	149	bcero	c	cbcerr	61	52	43	Tr	5		75	84	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	62	54	48	3			77	85	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	62	53	49	-	4		77	82	*
Camden Square ...	110			*						*	*		*
Kensington ...	80	bc	bc	*	63	52		-	4		75	85	*
Hampstead Observatory ...	450	bc	orbc	bc	61	51	47	-	3		*	91	*

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	whole period.		

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 8th October Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 9th 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.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...											*	*		

‡ 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.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

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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.

BRITISH SECTION

Thursday 10th October 1940.

No. 28812

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)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	992.7	+20	SW	5	PR	58	85	8	8	-	-	7-8	7-8	2500
	Croydon	992.3	+18	SW	4	bc/pp	60	55	8	3	4	2	4-6	4-6	2000
	S. Farnborough	992.0	+22	SE	6	bc/pp	56	75	8	8	-	-	2-3	2-3	2500
	Boscombe Down	991.7	+22	SW	6	bc	58	55	8	2	-	-	4-6	4-6	3000
	Calshot (Soton.)	998.8	+26	WSW	6	c	60	65	8	8	-	-	7-8	7-8	2500
	Lympne	996.1	+16	SW	6	bc/pp	60	65	8	8	-	3	4-6	4-6	2000
	Manston	993.5	+16	SW	8	bc	61	55	8	2	-	5	4-6	4-6	2000
2	Shoeburyness	993.9	+20	SE'E	6	bc	62	58	8	2	-	8	2-3	4-6	4000
	Felixstowe	991.7	+8	SW	7	bc	62	55	8	1	-	1	2-3	2-3	3000
	Gorleston	990.6	-6	SW'S	6	c	64	65	6	8	-	-	7-8	7-8	1500
	Mildenhall	989.2	+12	SW'W	6	bcq	60	55	8	2	-	-	4-6	4-6	2000
	Cranwell	985.5	+10	SW	7	c	59	55	8	5	-	-	7-8	7-8	1400
3	Birmingham	986.0	+12	SW	5	bc	55	55	8	8	-	-	4-6	4-6	1500
	Upper Heyford	989.9	+26	SW'S	7	bc	59	45	9	8	-	-	4-6	4-6	1200
4	Ross-on-Wye	987.7	+20	SWW	7	bcq	57	55	8	2	-	-	Tr	4-6	2500
5	Hartland Point	988.4	+22	SW	9	bc	55	65	8	9	-	-	4-6	4-6	1500
	Bristol	990.6	+20	SW	6	bc	59	55	8	8	-	-	4-6	4-6	2500
	Portland Bill	998.7	+20	SW	6	c/pp	67	92	7	3	-	-	9	10	2500
	Plymouth	993.4	+22	SW	8	bc	58	65	8	3	-	-	2-3	2-3	1600
	The Lizard	994.3	+20	W'S	7	bc	54	85	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	993.1	+22	SWW	6	c/jp	56	97	7	9	7	-	7-8	9+	1200
	Guernsey														
6	Pembroke	985.0	+30	WSW	9	cq	58	75	7	8	6	-	4-6	7-8	1500
7	Holyhead	976.0	+30	SW	8	RR	49	92	5	6	2	-	4-6	10	700
	Chester (Sealand)	979.9	+32	SSW	5	c/pp	56	65	8	8	-	-	9+	9+	2100
8	Manchester	979.2	+2	SSW	8	c	57	85	8	5	3	-	4-6	7-8	1400
10	Spurn Head	983.4	-12	S'W	7	-cq	60	55	7	2	-	-	7-8	7-8	4000
	Catterick	978.7	-30	SSW	5	pp	54	65	8	8	-	-	9+	9+	1500
	Tynemouth	975.3	-60	S	8	c	57	75	6	2	-	-	7-8	7-8	2500
11	St. Abbs Head	973.8	-54	S	6	c/p	52	92	7	5	2	-	7-8	10	1500
	Leuchars	973.7	-70	ESE	6	pp	58	97	6	6	2	-	9	10	500
12	Renfrew (Abbots I.)	971.7	-46	ESE	3	RR	52	97	4	5	2	-	4-6	10	1000
	Eskdalemuir	970.7	-60	S'W	5	tlr	49	92	7	9	-	-	9+	9+	800
	Point of Ayre	971.3	-32	W	4	c/p	53	97	8	8	2	-	7-8	10	1500
13A	Tiree	974.5	-30	N	7	pp	49	92	6	-	2	-	10	10	800
13B	Stornoway	978.1	-60	NNE	6	pp	48	97	6	5	2	-	9	10	900
15	Dalwhinnie	974.1	-54	ESE	4	pp	49	92	7	6	1	-	7-8	10	1500
	Aberdeen	976.5	-74	SSE	7	pp	51	97	6	6	2	-	9+	10	800
	Wick	980.9	-40	SE	6	pp	58	82	6	5	2	-	7-8	9	800
16	Lerwick	987.7	-34	SE'E	4	c	51	92	6	5	2	-	7-8	10	800
17	Blacksod Point	985.1	+18	N'W	6	c	50	75	8	5	-	-	10	10	800
18	Malin Head	974.5	-18	N	8	iro	49	85	5	9	-	-	9+	9+	800
	Aldergrove	972.6	-10	NWW	4	c	51	85	8	5	-	-	10	10	1400
19	Birr Castle	981.8	+40	NNW	4	pp	45	92	7	6	2	-	4-6	10	1500
20	Valentia Obsy. †	989.5	+30	WNW	5	c/pp	52	65	8	9	2	-	9	10	2500
	Roches Point	989.9	+34	W	5	pp	49	92	7	6	2	-	7-8	9+	1500

OBSERVATIONS at 18h. 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)	Cloud Form Med. (24)	Cloud 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)	995.7	+20	SW'S	4	bc	53	75	8	8	-	-	2-3	2-3	1500	1	*
Croydon	995.4	+18	SSW	3	bc	50	85	7	8	4	-	1	2-3	2000		*
S. Farnborough	995.9	+16	SW'S	5	bc	51	75	8	3	6	3	1	2-3	2500	1	*
Boscombe Down	995.0	+26	SW	4	bc	51	65	8	3	-	3	2-3	2-3	2500	1	*
Calshot (Soton.)	996.5	+18	WSW	5	pp	54	65	7	8	-	1	4-6	4-6	1400	1	4
Lympne	998.5	+14	SW	3	b	54	75	8	3	-	3	Tr	Tr	2000	1	§ 4
Manston	998.2	+12	SW	5	bc	58	75	7	2	-	-	1	2-3	2500		*
Shoeburyness	996.8	+18	SSW	5	bc	54	75	7	-	5	-	0	2-3	-	0	*
Felixstowe	995.2	+16	SW	6	b	55	65	8	2	6	3	Tr	1	3000	1	4
Gorleston	993.3	+10	SW'S	5	bc	57	65	7	-	4	-	0	2-3	-	1	4
Mildenhall	992.1	+18	SSW	6	b	56	55	8	4	6	-	Tr	1	3000		*
Cranwell	987.8	+18	S	8	bc	51	65	8	5	-	-	2-3	2-3	2500	1	*
Birmingham	989.2	+16	SSW	5	c	50	65	8	8	-	-	7-8	7-8	1500	1	*
Upper Heyford	992.4	+22	SW'S	6	pp	52	65	8	8	-	-	4-6	4-6	1800	1	*
Ross-on-Wye	991.5	+24	SW	5	bc/pp	50	75	7	9	-	-	2-3	2-3	2500	1	*
Hartland Point	992.4	+20	SW	7	c	53	75	8	9	-	-	7-8	7-8	1500	0	4 *
Bristol	993.8	+30	SWW	6	bc/pp	51	75	8	8	6	-	2-3	4-6	1600	1	
Portland Bill	996.2	+20	SW	6	c	56	92	7	5	-	-	10	10	4000	1	5
Plymouth	995.8	+22	WSW	6	bc	54	75	8	3	-	-	2-3	2-3	2000	1	4
The Lizard	996.5	+8	WSW	7	bcq	52	75	8	8	6	-	4-6	4-6	2000	1	4
Scilly (St. Mary's)	996.4	+20	W	6	c/pp	52	75	8	8	6	3	4-6	7-8	1200	1	4
Guernsey																
Pembroke	990.6	+40	W	7	ir	51	85	7	8	-	-	9+	9+	800	4	4
Holyhead	982.8	+66	WSW	7	pp	49	85	6	6	2	-	4-6	10	700	1	5
Chester (Sealand)	983.9	+34	WSW	6	jp	46	86	7	6	2	-	9	10	900	1	*
Manchester	982.4	+18	SW'S	7	RR	46	92	6	5	2	-	9	10	1200	2	*
Spurn Head	985.6	+8	S	8	bcq	55	45	7	4	-	-	4-6	4-6	4000		
Catterick	978.5	+4	SSW	6	rgrg	49	75	7	6	7	-	7-8	9+	1500	1	
Tynemouth	976.1	+12	SW	8	c/pp	51	75	6	8	-	-	9+	9+	2800	1	4
St. Abbs Head	968.9	-2	SW	7	c	47	85	8	5	5	4	4-6	9	2000	1	4
Leuchars	968.1	-10	SSW	2	rgrg	51	92	6	5	2	-	7-8	10	900	2	*
Renfrew (Abbots I.)	968.6	-6	W	1	pf	51	97	3	5	2	-	9	10	1500	1	*
Eskdalemuir	970.0	+4	SW'W	6	ir	47	92	7	6	2	-	7-8	10	800	1	*
Point of Ayre	977.1	+54	WNW	7	c	50	85	8	8	2	-	7-8	10	2500	1	3
Tiree	973.8	+10	NW'N	7	rorg	48	92	7	6	-	-	10	10	800	1	5
Stornoway	970.4	-40	NNE	5	pp	51	97	6	5	2	-	9+	10	1000	1	3
Dalwhinnie	968.4	-16	S	1	jr	45	97	6	5	2	-	4-6	10	2500	1	*
Aberdeen	967.3	-44	S'W	4	c/p	50	92	6	9	-	-	10	10	450	1	3
Wick	968.8	-62	ESE	8	c/p	53	92	6	6	7	8	4-6	9+	800		
Lerwick	978.4	-56	E	8	ir	50	85	6	6	2	-	4-6	10	450	1	*
Blacksod Point	987.3	+14	NW	5	cq	49	75	8	3	-	4	4-6	7-8	1500	0	3
Malin Head	978.2	+26	N	8	c	50	75	8	8	-	-	7-8	7-8	1500	0	5
Aldergrove	980.2	+58	W	6	c/r	48	75	8	8	7	-	9	9+	1000	1	*
Birr Castle	988.8	+24	NNW	2	bc	48	75	8	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy. †	993.0	+16	WNW	4	pp	51	85	8	9	-	-	9+	9+	2500	1	4
Roches Point	992.4	+26	W	3	bc	49	85	8	3	4	5	2-3	4-6	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 9th (37)	13h.—18h. 9th (38)	18h. 9th to 1h. 10th (39)	1h.—7h. 10th (40)
London (Kew)	cirbcPR	dbcyprbc	bcw	bcw
Croydon	cpgbc	bcprg	bcromo	bcmo
S. Farnborough	cgPRprdbc	bcyprgb	bbcb	b,cbccpro
Boscombe Down	bcirgcprbc	bcjp	b	beprcpr
Calshot (Soton.)	cPRmpgbc	bccpr	bc⊕PRb	bbcePRq
Lympne	dgpgbc	bcc.b	cprproc	cproc
Manston	rgcbc		bepro	beprobc
Shoeburyness	cprgbcy	bccybc	bcrobc	bccbc
Felixstowe	oidpcbcy	bcyb	b,cbc	bc
Gorleston	oirgcq		bcq	bc
Mildenhall	crgmgcqbc	bcyqvby	byb	b,c,bbw
Cranwell	rg,b,cq	cbc ≡	bcb	bbcb
Birmingham	rgbc	bcc	c	crro
Upper Heyford	cdgmgbdpg	bc	bbcqbccpr	cprbcc
Ross-on-Wye	crcqR	bcqp	bccir	ir
Hartland Point	cbcp ≡	bccp ≡	cbrrp	cpl
Bristol	cdprgbc	bcypg	beprocrrbc	bcbcproc
Portland Bill	prb		Cbc	opr
Plymouth	cprcbc ≡	beprbc	becprocbc	
The Lizard	bcq	beprq	bcc	bcc
Scilly (St. Mary's)	bccpq	crq	bcqp	bcpoc
Guernsey				
Pembroke	ircq ≡	pyir ≡	rgqc	
Holyhead	crrmzc	crmzc ≡	crmobc	bbcc
Chester (Sealand)	cqpc	prgqroc	rrpro	bbcpro
Manchester	rorcz	prqRR	cmobcmo	bmocmopro
Spurn Head	cq	qprcq	cbcq	bcq
Catterick	mrgrgdprg	crgrg	rormoe	ccrbbc
Tynemouth	orrbc ≡	cpo ≡	cpoc	cbc
St. Abbs Head	omrrq ≡	cqrr	cq	cqbcq
Leuchars		mrrcgrg		bcmocmoc
Renfrew (Abbots I.)	cmrRrgR	RcRRpff	cfRmorgpro	bc propro
Eskdalemuir	rriR	ctlrRRlr	cirrobc	bcc
Point of Ayre	crrtl	ppc	cbc	bbcc
Tiree	oRrr		coir	orgoc
Stornoway	crp	cRR	crr	crrrgrg
Dalwhinnie	prp	iro	*	pirc
Aberdeen	crgr		crorgoc	cmoc
Wick	rpqmo	Rqrc		cprc
Lerwick	crrorg	crrir ≡	cirrrtl	crrirq
Blacksod Point	c	cbcq	prc	prc
Malin Head	circirc ≡	cidccprgpr	c	bcprPRpr
Aldergrove	irgmoc			bc
Birr Castle	cpp	cbc	cpr	cpr
Valentia Obsy. †	irgrrRpr	cprgbccpr	qphrqPRlbc	prophrqPRbc
Roches Point	irgrr	Rgcbc	probc	probc

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. • r₀, 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

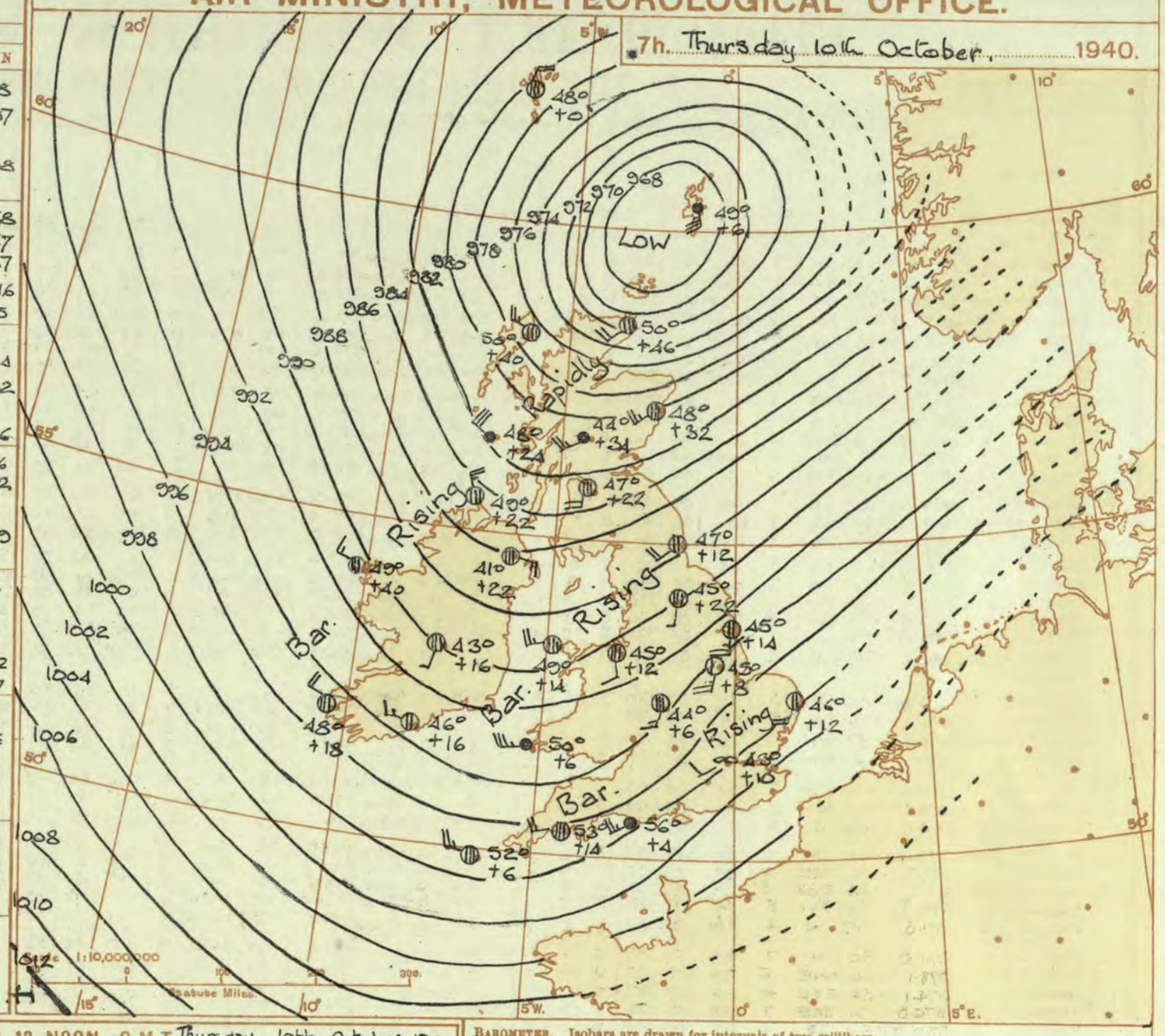
AVIATION WEATHER CODE

	13h. G.M.T. 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	62	66627	46568	52	22635	43568	52	66646	12268	87	16737	57668
115	52	64734	10567	52	64734	10667	51	01854	28365	52	81734	28687
203												
206	52	02846	08468	52	62745	00068	52	63715	57568	52	22846	20568
210				52	02845	12367	5-	64638	53668			
220	62	63735	31568	62	65735	29768				62	64736	28768
230	52	62748	04265	62	64636	58768	52	62645	57768	87	25716	20367
245	0-	58528	48668	62	62636	49567				77	02555	53727
260	87	22744	10267	57	02845	20297				87	02854	55416
277	62	62745	25368	52	22645	58768	07	00750	55561	57	02842	21415
279												
285	6-	65638	18768	6-	65738	20768				90	25634	24664
288	8-	25855	49665	6-	61847	51787	5-	01764	53584	84	00752	18582
273	32	10644	32767									
301	32	64626	53768	62	64645	53788	10	01753	57663	9-	81646	35426
321	38	02864	18764	50	01765	20715	04	00690	20482	57	02763	20416
299	87	02644	51664	80	01748	20713	5-	01743	22713	50	05641	20502
292	5-	14847	49667	5-	01748	50688	51	01763	51461	84	05653	16214
310				--	02628	2482-				--	57209	20549
316	8-	81756	51616	86	01764	51684	07	05690	20314	53	25664	16385
333	61	22746	22868				20	00752	25402	36	01754	24415
334												
340	38	81944	51785	9-	81848	57888	50	00863	19583	5-	02866	16416
136	20	01864	18714				50	00861	18601	04	01890	20402
336	--	02854	20616	--	82642	20688				--	22754	20467
350	20	02845	51786	80	10853	51613				10	01861	16414
368	30	25844	56784	20	01764	23524				87	81636	53586
379	20	01854	22714	20	25853	20713	6-	64648	20468	53	01753	18215
390	9-	81735	53555	43	05654	22514	54	05553	18113			
382	20	01-54	53514	50	81744	51684	5-	02757	22417	39	01854	17325
438	50	14754	22714							81	14744	24685
430	20	01753	20513				40	25744	20383			
409				30	25844	24785				8	02847	20587

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 10th October, 1940.



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. Thursday 10th October, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate or fresh squally southwest wind, lighter later, considerable bright intervals, local thundery showers, rather cool.
5 S.W. England	Fresh squally west wind, light and variable for a time tonight, bright intervals and showers at first, perhaps a period of rain in extreme southwest during night, rather cool.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Fresh or strong squally west wind, moderating, heavy showers with local hail and thunder, bright intervals, rather cool.
10 N.E. England 11 S.E. Scotland	As 1-4.
12 S.W. Scotland & Isle of Man.	As 6-9
13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland	Strong northwest wind, gale locally, moderating slowly, showery, rather cool.
15 N. E. Scotland	Strong west wind, moderating, vaiable cloud, local showers, rather cool.
16 Orkneys and Shetlands	As 13 - 14.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh squally northwest wind, moderating, showers with local hail and perhaps thunder, bright intervals, rather cool.

GENERAL INFERENCE.

A very deep depression near the Shetlands is moving north-northeast slowly and will begin to fill up. A secondary in the Atlantic is likely to follow a curved track and will cross Northern France tonight, but the extreme southwest of England may be affected. Over the British Isles generally there will be bright intervals but showers chiefly in the West.

FURTHER OUTLOOK.

Unsettled.

Warnings of gales, still in operation, north of a line Bloody Foreland to Hornsea.

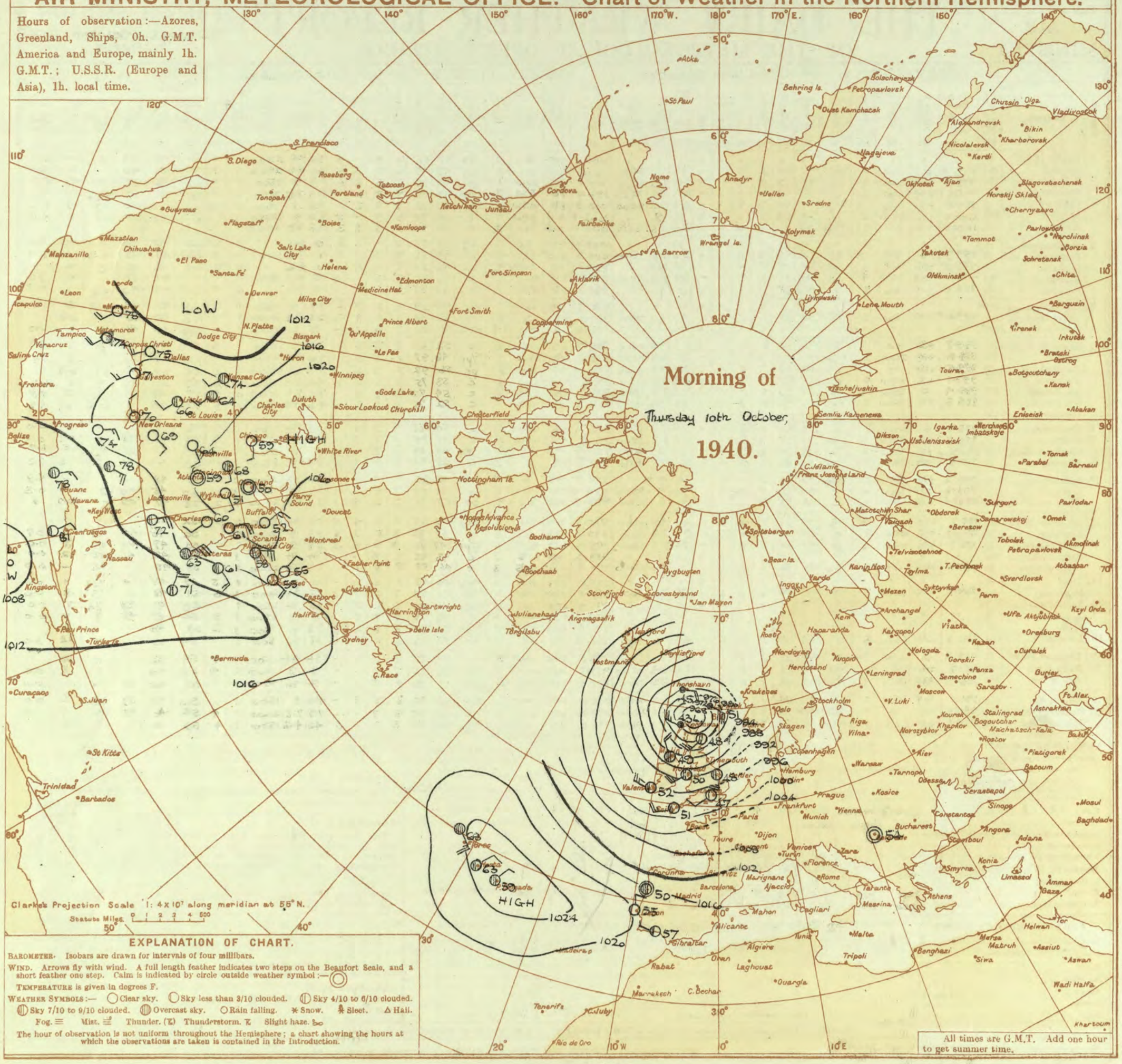
Forecasts issued at 10.30 G.M.T

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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.



Page 4. AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 10th October 1940.
No. 28812

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	998.4	+14	SW	2	b/r	47	92	6	5	-	-	1	1	2500
	S. Farnborough	226	998.9	+14	SW'W	4	bc	48	85	8	5	-	-	2-3	2-3	3000
	Boscombe Down	417	998.5	+14	WSW	3	bc	45	85	7	4	-	-	2-3	2-3	2400
	Calshot (Sthmtn.)	8	999.0	+10	W'N	4	bc/pr	51	75	7	8	-	-	2-3	2-3	2000
	Lympne	346	1000.5	+6	SSW	2	c	48	92	8	-	-	8	0	9	-
	Manston	154	1000.5	+2	SW	4	bc/pr	58	92	7	2	6	-	2-3	4-6	2000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	998.3	+6	SW	4	bc	52	85	8	5	-	-	2-3	2-3	3000
	Gorleston	5	997.5	+12	SW'S	4	bc	51	75	7	-	4	-	0	2-3	-
	Mildenhall	19	996.6	+18	SSW	4	bc	49	75	8	5	-	-	2-3	2-3	4000
	Cranwell	240	994.4	+18	SW	5	b	46	85	7	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	997.0	+14	SW	3	PR	46	85	7	5	2	-	9	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	999.7	+2	W	6	c/pr	52	65	8	8	-	-	7-8	7-8	1000
	Bristol	209	998.0	+14	SSW	2	bc/pr	46	97	7	5	-	-	2-3	2-3	2200
	Portland Bill	32	999.5	+16	SW	5	bc	53	92	7	5	-	-	4-6	4-6	4000
	Plymouth	82	999.1	+2	WSW	4	bc	54	65	7	8	-	-	4-6	4-6	1800
	The Lizard	240	999.4	0	SSW	6	c	53	75	8	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	988.8	-2	WSW	5	bc	51	85	8	3	-	-	4-6	4-6	1200
	Guernsey	175														
6	Pembroke	142	993.6	0	WSW	7	c	54	65	7	8	-	-	7-8	7-8	1200
7	Holyhead	26	990.3	+10	SW'W	5	bc	50	75	8	2	.	-	2-3	2-3	2500
	Chester (Sealand)	16	992.0	+18	SSW	2	b	48	75	8	5	-	-	1	1	4000
8	Manchester	70	991.6	+22	SSW	4	Zo	45	85	6	5	-	-	Tr	Tr	2500
10	Spurn Head	29	992.3	+16	S'W	5	beq	48	85	7	-	4	-	0	4-6	-
	Catterick	175	983.6	+34	SW'W	4	c	54	75	7	5	7	-	4-6	9	2500
	Tynemouth	108	985.4	+32	SW	6	c	49	75	7	8	-	-	9	9	2800
11	St. Abbs Head	280	977.7	+50	W	8	cq	49	65	8	4	4	-	4-6	10	2000
	Leuchars	36	974.4	+32	WSW	8	c	49	75	6	5	7	-	4-6	7-8	1800
12	Renfrew (Abbots I.)	19	980.7	+42	WSW	6	pr	49	75	7	8	-	-	7-8	7-8	1800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	986.8	+26	W'S	3	bc	48	92	8	8	4	-	1	2-3	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	969.8	+20	WNW	7	rr	49	92	6	5	2	-	9	10	800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81														
16	Lerwick	156	970.8	-50	ESE	8	rr	51	97	5	6	2	-	4-6	10	450
17	Blacksod Point	18	988.8	+2	W'N	3	c	49	85	8	9	-	-	10	10	<150
18	Malin Head	84	983.7	+16	NW	4	cjp	49	85	7	3	-	-	7-8	7-8	2500
	Aldergrove	268	986.7	+20	SW'S	4	bc	44	92	7	5	-	1	2-3	4-6	1100
19	Birr Castle	173	991.5	+4	WSW	2	pr	44	92	7	9	-	.	7-8	7-8	1500
20	Valentia Obsy.	30	994.9	-2	W	5	bc/pr	52	85	8	9	-	-	4-6	4-6	2500
	Roches Point	22	994.7	+2	W'S	3	bc/pr	47	85	8	3	-	3	2-3	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 10th 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)	1000.1	+10	SSW	3	Zo	49	85	6	8	-	1	4-6	7-8	2500	1	*
Croydon	1000.1	+10	SW	2	Zo	43	97	6	8	2	-	4-6	4-6	2500	1	*
S. Farnborough	1000.5	+6	SSW	1	pr	46	85	7	3	8	3	7-8	9	2500	1	*
Boscombe Down	999.4	+6	S'W	3	bc/pr	45	92	8	9	6	-	2-3	7-8	1500	1	*
Calshot (Sthmtn.)	1000.2	+6	WSW	3	c/pr	49	92	7	9	3	-	7-8	9	1200	1	2
Lympne	1002.6	+14	SSW	1	c	47	85	8	9	-	8	4-6	9	1200	1	§
Manston	1003.3	+22	SW	2	c	46	85	7	3	7	3	2-3	7-8	2000		*
Shoeburyness	1001.6	+16	S'W	3	bc	49	85	8	-	2	8	0	2-3	-	1	*
Felixstowe	1000.6	+16	SW	4	c	48	85	8	2	7	2	1	7-8	3000	0	2
Gorleston	999.7	+12	SW'S	4	bc	46	85	7	-	4	1	0	4-6	-	0	2
Mildenhall	998.7	+14	SSW	2	bc	46	85	8	5	-	5	Tr	2-3	4000	1	*
Cranwell	995.7	+8	SSW	5	b	45	85	8	-	7	1	0	Tr	-	0	*
Birmingham	996.4	+6	SSW	3	c/r	44	92	6	5	7	-	7-8	9	1500	1	*
Upper Heyford	998.0	+2	S	2	c	43	85	8	3	4	3	2-3	7-8	2000	1	*
Ross-on-Wye	996.6	0	SW	4	roro	47	85	7	6	1	-	9+	10	1500	1	*
Hartland Point	995.8	+6	W	6	c	52	65	8	8	6	-	7-8	9	1500	1	4
Bristol	998.3	+6	SSW	4	c/pr	46	97	8	8	3	-	4-6	7-8	2000	1	*
Portland Bill	990.0	+4	SW	5	pr	56	92	7	3	2	-	7-8	10	2500	1	5
Plymouth	999.6	+14	WSW	4	c	53	75	8	3	6	3	4-6	7-8	1600	1	3
The Lizard	999.7	+10	WSW	6	c	54	75	8	8	6	-	7-8	7-8	1500	0	4
Scilly (St. Mary's)	999.3	+6	W'S	5	c	52	75	8	8	7	-	4-6	7-8	1500	1	3
Guernsey																
Pembroke	993.7	+6	WSW	7	pr	50	85	7	8	6	-	7-8	9+	1500	1	4
Holyhead	991.5	+14	WSW	5	c	49	75	8	5	3	-	7-8	7-8	2500	1	3
Chester (Sealand)	993.4	+12	S'E	2	c/pr	45	85	7	9	-	-	9	9	1200	1	*
Manchester	993.7	+18	S	3	c/pr	45	85	7	8	6	3	7-8	9	2500	1	*
Spurn Head	995.7	+14	S	5	be	45	85	7	4	-	-	2-3	2-3	2500	0	4
Catterick	992.1	+22	S	1	c	45	85	7	8	-	1	7-8	7-8	1800	1	*
Tynemouth	989.7	+12	SW	4	be	47	75	7	2	4	1	2-3	4-6	3200	1	2
St. Abbs Head	985.3	+24	SW	6	bcq	47	65	8	5	4	9	2-3	4-6	2500	0	3
Leuchars	982.8	-30	SW	6	c	47	85	8	5	7	5	2-3	9	2500	1	*
Renfrew (Abbots I.)	985.4	+22	SW'S	4	c/pr	47	85	8	8	6	3	7-8	9	2500	1	*
Eskdalemuir	988.2	+18	W'S	5	c	43	85	8	5	-	-	9+	9+	800	1	*
Point of Ayre	990.4	+18	W'S	3	c	46	92	8	8	-	-	7-8	7-8	2500	1	3
Tiree	983.5	+24	NW	6	roro	48	97	7	6	-	-	10	10	800	1	5
Stornoway	976.5	+40	NW	5	c/r	50	92	7	5	7	-	7-8	9+	1000	1	3
Dalwhinnie	981.0	+34	SW	5	roro	44	85	7	5	7	-	4-6	9+	2500	1	*
Aberdeen	979.3	+32	SW	5	c	48	75	8	9	2	-	Tr	9	2500	1	3
Wick	971.0	+46	SW	4	c/pr	50	85	7	6	2	8	7-8	10	800	1	3
Lerwick	967.2	+6	PR	7	ir	49	92	6	8	7	-	7-8	9+	800	1	*
Blacksod Point	993.0	+40	NW	3	c	49	75	8	9	-	-	9+	9+	1500	1	4
Malin Head	987.2	+22	NNW	5	c/pr	49	85	7	9	-	-	9	9	1500	1	4
Aldergrove	989.5	+22	ESE	3	c	41	92	8	5	-	-	9+	9+	700	1	*
Birr Castle	993.0	+16	SSW	1	c/pr	43	92	8	8	7	-	4-6	9	1500	1	*
Valentia Obsy.	996.1	+18	NW'W	4	c	48	85	8	9	-	-	7-8	7-8	2500	1	4
Roches Point	995.1	+16	W'N	3	bc/pr	46	85	8	3	-	3	4-6	4-6	1500	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 9th Hrs. (36)
London (Kew)	59	47	33	1	-	6.2
Croydon		43	40		1	6.4
S. Farnborough	60	48	37	1	Tr	5.9
Boscombe Down	58	40	37	0.3	1	7.2
Calshot (Sthmtn.)	60	46	40	2	7	6.2
Lympne	61	45	35	0.1	1	4.4
Manston						
Shoeburyness	63	47	40	-	Tr	3.9
Felixstowe	63	48	43	0.2	-	6.4
Gorleston	64	46	41	3	-	*
Mildenhall		44	37		Tr	7.6
Cranwell	61	43	40	0.6	-	6.7
Birmingham	58	43	40	0.3	3	5.5
Upper Heyford	60	42	33	0.1	0.5	*
Ross-on-Wye	58	45	41	1	5	5.0
Hartland Point	56	48	46	1	5	4.3
Bristol	60	45	40	Tr	5	7.1
Portland Bill	58	55	*	0.1	0.3	*
Plymouth	59	50	56	2	1	6.2
The Lizard	57	48	*	1	2	7.5
Scilly (St. Mary's)	57	50	*	0.4	1	4.3
Guernsey						
Pembroke	56	49	*	3	3	0.0
Holyhead	56	48	45	18	0.1	0.0
Chester (Sealand)	59	45	39	2	5	2.9
Manchester	59	44	41	3	6	2.3
Spurn Head	61	45	*		-	4.9
Catterick	57	45	40	2	1	0.3
Tynemouth	58	47	42	6	0.2	*
St. Abbs Head	52	45	*	11	-	*
Leuchars	56	46	44	10	2	0.7
Renfrew (Abbots I.)	54	47	41	15	3	0.0
Eskdalemuir	56	42	41	15	.2	0.0
Point of Ayre	55	45	*	14	-	0.0
Tiree	49	47	*	21	1	0.0
Stornoway	51	48	*	13	8	0.0
Dalwhinnie	49	43	39	24	7	0.0
Aberdeen	54	47	45	8	1	0.0
Wick	53	46	*		2	*
Lerwick	54	48	*	7	14	0.0
Blacksod Point	54	43	*	6	10	*
Malin Head	53	46	*	7	3	0.0
Aldergrove	52	40	38	*	-	0.0
Birr Castle	50	42	39	28	6	0.0
Valentia Obsy.	54	46	42	9	7	1.6
Roches Point	52	46	*	7	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	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
		24 hrs. ended 9h.											
Kew	18	cirorbelR	cbey prbc	bcw	59	47	33	1	-	6.2	*	*	6
Croydon	217	eprobc	bepro	beromo		43	40		1	6.4	*	*	
Greenwich (Royal Observatory)	149												
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	61	46		2			67	89	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	61	45	39	2	2		71	85	*
Camden Square	110			*						*	*		*
Kensington	80	bepr	bcp	*	62	45	36	2	3		61	91	*
Hampstead Observatory	450	bear	be	bcor	59	44	39	0.6	3		*	94	*

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	whole period		

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 9th October: Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 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.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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	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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 11th October, 1940.

No. 28813

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)...	1001·2	+2	SSW	4	tlro	54	75	8	8	-	3	7-8	9+	2500
	Croydon ...	1000·9	+2	SSW	3	c	55	75	7	3	6	3	4-6	7-8	3000
	S. Farnborough	1001·2	+6	SW'S	4	c/tlr	55	75	8	3	6	3	4-6	9+	3000
	Boscombe Down	999·9	+4	SW'W	4	cjp	54	65	8	3	6	3	4-6	7-8	2000
	Calshot (Soton.)	1001·1	+2	WSW	5	c/pr	52	75	8	9	6	3	7-8	9	1200
	Lympne ...	1003·6	-6	SSW	2	c	57	75	8	9	-	3	7-8	9	1500
	Manston ...	1003·5	-6	SW	2	c/pr	52	85	7	8	-	8	9	9+	1200
2	Shoeburyness ...	1002·5	+8	S'W	4	c	53	85	8	8	7	-	4-6	7-8	1500
	Felixstowe ...	1001·4	+6	SW'S	5	c	55	75	8	2	7	3	1	9	3000
	Gorleston ...	1000·9	8	SW'S	5	c	56	65	7	8	4	-	4-6	7-8	2200
	Mildenhall ...	999·6	+4	SSW	4	c	57	55	8	8	-	-	9	9	3000
	Cranwell ...	997·8	+8	SW'S	5	c	55	55	8	8	6	3	7-8	9	2500
3	Birmingham	998·3	+8	SW	3	pr	47	85	8	8	-	-	7-8	7-8	1500
	Upper Heyford	999·6	+10	SW'S	3	PR	47	85	7	8	-	-	9+	9+	800
4	Ross-on-Wye ...	998·4	+8	S'W	2	c/r	48	85	8	9	-	3	4-6	10	2500
5	Hartland Point	999·1	+22	W	5	pr	53	65	8	9	-	-	7-8	7-8	1500
	Bristol ...	999·8	+12	SW	4	pr	52	85	7	9	6	3	4-6	7-8	1400
	Portland Bill ...	1002·0	+10	SW	5	c	56	92	8	5	4	-	4-6	7-8	4000
	Plymouth ...	1000·9	+10	WSW	5	phr	53	97	6	3	-	3	9	9	2000
	The Lizard ...	1001·6	+10	W'S	6	c	52	85	8	8	6	-	7-8	7-8	2500
	Scilly (St.Mary's)	1001·7	+12	NW'W	3	c/pr	50	97	8	9	6	3	7-8	9+	1300
	Guernsey ...														
6	Pembroke ...	998·1	+20	WNW	4	bc	53	75	8	8	-	-	4-6	4-6	2500
7	Holyhead ...	995·4	+32	WNW	4	c	53	75	8	8	3	9	7-8	7-8	2500
	Chester (Sealand)	995·9	+10	SW'S	3	bc	55	85	8	8	3	-	4-6	4-6	2500
8	Manchester ...	995·7	+12	SW'S	3	c	51	75	7	8	6	-	7-8	9	2400
10	Spurn Head ...	996·9	+6	S'W	5	c	57	65	6	2	-	-	7-8	7-8	4000
	Catterick ...	994·3	+14	SW	3	c	53	65	7	8	6	-	7-8	7-8	2200
	Tynemouth ...	993·0	+20	SW	5	bc	54	65	7	2	-	-	4-6	4-6	2900
11	St. Abbs Head	989·0	+22	W	6	bcq	53	35	9	2	4	4	2-3	4-6	2500
	Leuchars ...	987·6	+24	SW	6	c	51	75	7	8	7	-	4-6	9	2500
12	Renfrew (Abbots I.)	989·9	+22	WSW	4	iro	49	85	8	5	2	-	4-6	10	2000
	Eskdalemuir ...	990·9	+12	WSW	6	bc	50	75	8	5	-	1	4-6	4-6	1500
	Point of Ayre ...	993·9	+22	WNW	4	bc	55	75	8	8	-	-	4-6	4-6	2500
13A	Tiree ...	989·8	+26	NW'N	6	c/r	50	92	7	6	-	-	9+	9+	1500
13B	Stornoway ...	984·3	+32	NW	5	roro	49	92	6	8	2	-	9	10	1000
15	Dalwhinnie ...	987·0	+26	SW	4	rro	48	85	7	6	1	-	4-6	10	2500
	Aberdeen ...	985·2	+20	WSW	4	roro	49	85	7	2	2	-	Tr	9+	2500
	Wick ...	979·9	+40	W	4	rr	50	85	7	5	2	-	7-8	10	800
16	Lerwick...	971·0	+28	SW'S	8	c/r	51	85	7	8	7	-	7-8	9	800
17	Blacksod Point..	999·9	+32	NW	5	cq	52	75	7	9	-	-	9	9	1500
18	Malin Head ...	993·3	+28	NNW	5	c	51	85	7	9	-	-	9+	9+	2500
	Aldergrove ...	994·8	+34	W	3	iro	48	75	8	5	7	-	4-6	10	1800
19	Birr Castle ...	999·3	+24	NNW	2	r/tlr	54	65	8	8	1	-	7-8	9	1500
20	Valentia Obsy. †	1002·6	+28	NNW	4	bc	53	75	8	3	-	-	2-3	2-3	2500
	Roches Point ...	1000·4	+30	WNW	4	bc	52	75	8	3	4	3	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 10th. 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)	1004·1	+24	SW	3	bc/pr	51	75	7	8	-	3	4-6	4-6	2500	1	*
Croydon	1003·5	+20	SW	1	zo	50	85	5	8	7	-	2-3	4-6	2000		*
S. Farnborough	1004·0	+20	SW'S	2	bc	48	85	8	3	6	3	1	2-3	3000	1	*
Boscombe Down	1003·7	+26	SW'S	2	bc	45	85	8	4	6	3	Tr	2-3	3000	1	*
Calshot (Soton.)	1004·1	+22	WSW	2	bc/pr	49	85	7	8	3	3	1	2-3	2500	1	2
Lympne	1005·7	+16	SW	2	bcjp	51	92	9	9	-	2	4-6	4-6	1200	1	§
Manston	1005·3	+10	SSW	3	bc/pr	51	85	8	8	-	-	2-3	2-3	2000		*
Shoeburyness	1004·1	+12	S'W	5	bc	53	85	8	9	-	-	2-3	2-3	2500	1	*
Felixstowe	1003·9	+16	SW'S	5	cjp	54	75	7	3	4	3	Tr	7-8	2500	1	2
Gorleston	1003·0	+10	SW	3	bc	53	65	6	2	7	-	2-3	4-6	2500	1	2
Mildenhall	1002·0	+14	SW'S	3	bc	51	75	8	8	6	-	2-3	2-3	2500	1	*
Cranwell	1001·1	+24	SW	3	bc	47	85	7	8	-	-	2-3	2-3	2500	0	*
Birmingham	1002·7	+30	SW	2	b	46	85	7	5	4	-	Tr	1	2500	1	*
Upper Heyford	1002·7	+24	SW	3	bc	46	85	8	4	4	1	1	2-3	2500	1	*
Ross-on-Wye	1002·7	+24	WSW	2	b	48	75	8	8	2	3	Tr	1	2500	1	*
Hartland Point	1003·5	+18	WNW	3	c	52	75	9	8	-	6	7-8	9	2000	1	4
Bristol	1003·5	+20	WSW	3	b	48	85	8	2	5	-	Tr	1	2500	1	*
Portland Bill	1003·4	+16	W	4	c	54	92	8	5	4	-	4-6	7-8	4000	1	4
Plymouth	1004·4	+20	W	2	bcjp	51	85	6	3	6	3	4-6	4-6	1200	1	2
The Lizard	1004·8	+14	NW	4	bc	50	75	8	8	-	-	4-6	4-6	1500	1	3
Scilly (St.Mary's)	1005·2	+22	NW	4	bc	52	65	8	8	6	-	4-6	4-6	1500	1	3
Guernsey																
Pembroke	1003·2	+24	W	3	c	52	75	8	8	7	2	4-6	7-8	1500	1	2
Holyhead	1000·5	+34	W'N	5	c	53	75	8	8	1	-	4-6	9+	3000	1	3
Chester (Sealand)	1001·2	+38	WSW	2	PR	50	75	6	8	-	-	9	9	800	1	*
Manchester	1000·3	+24	SSW	3	c/pr	48	85	5	8	3	-	4-6	7-8	2100	1	*
Spurn Head	999·6	+14	S	4	bc	50	75	7	-	4	-	0	4-6	-	0	3
Catterick	998·4	+28	SW	2	bc	48	75	8	4	-	-	2-3	2-3	3500	0	
Tynemouth	996·3	+20	SW	4	bc	51	65	6	2	4	-	4-6	4-6	2900	1	2
St. Abbs Head	992·3	+14	W	6	cq	48	85	9	5	2	-	4-6	7-8	2500	0	9
Leuchars	991·6	+28	SW	5	r	49	85	7	5	2	-	7-8	9+	2200	1	*
Renfrew (Abbots I.)	994·9	+36	W	3	c/pr	48	85	8	5	7	-	9+	10	1600	1	*
Eskdalemuir	995·5	+26	W	4	rr	45	85	6	6	-	-	10	10	800	1	*
Point of Ayre	998·4	+30	WNW	5	ir	51	85	8	8	1	-	7-8	10	1500	1	3
Tiree	996·5	+26	NW'N	6	c	50	85	7	8	-	-	7-8	9	1500	0	5
Stornoway	991·1	+40	NW	5	ir	48	85	6	5	2	-	9	10	300	1	3
Dalwhinnie	*	+38	WSW	3	c	45	85	7	5	1	-	4-6	9+	1500	1	*
Aberdeen	990·9	+34	WSW	2	iro	49	85	7	5	7	-	7-8	9+	2500	1	2
Wick	986·6	+24	W	4	bc	48	85	7	5	7	8	2-3	4-6	1500	1	2
Lerwick	976·6	+30	SW'W	7	c/r	50	92	7	8	7	-	7-8	9+	800	1	*
Blacksod Point	1004·5	+24	NW	4	c	50	85	8	9	-	-	9	9	1500	1	2
Malin Head	998·2	+34	NNW	5	c	51	75	8	4	6	1	4-6	7-8	5700	0	4
Aldergrove	999·8	+36	NW'W	4	c/pr	48	85	8	5	7	-	7-8	9+	2000	1	*
Birr Castle	1004·4	+30	NW	1	c/pr	47	85	8	8	7	-	4-6	7-8	1500	1	*
Valentia Obsy. †	1007·5	+26	N'W	4	bc	51	75	8	2	-	5	2-3	2-3	2500	1	3
Roches Point	1005·2	+30	NW'N	4	bc	51	75	8	5	4	5	2-3	4-6	2300	1	2

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 10th. (37)	13h.—18h. 10th. (38)	18h. 10th. to 1h. 11th. (39)	1h.—7h. 11th. (40)
London (Kew)	crorctpro	cprhrobc	bcbw	bwfoFe
Croydon	pr	procmo	bcmo	b
S. Farnborough	cPRbcctlro	cprqbc	bw	bw Fx
Boscombe Down	cbcpr	bcjp	b	bFx
Calshot (Soton.)	cPHRPRq	bcPRpro	bwmo	bwmo,Fe
Lympne	mo Pro	PRtlhr	bccpro	bcbmow[illegible]
Manston	bccpro		prbc	bc,mowfg
Shoeburyness	cpropr	cpbc	bcb	bxm
Felixstowe	bccproc	cbcpro	b	bmobmw
Gorleston	bccq	cqbc	bcbzow	bzow
Mildenhall	bwczoccq	cqtlrqb	bc	bmomwx
Cranwell	cbccq	bc	bcbbmo	bmomm[illegible]
Birmingham	cpro	cprbc	b	bw
Upper Heyford	qPRcPR	cprbc	bjfbmo	bmobfbx
Ross-on-Wye	irtlr	qccpbcb	bbcc	cbcbm
Hartland Point	cpro	cp	c	cbc
Bristol	cprtlrcbc	bcprob	bbcmow	bcmobfy
Portland Bill	cpr	c		bbc
Plymouth	cprc	cprhbcjp	bcjpro cmo	bcmow[illegible]
The Lizard	cprc	cprbc	prcbc	bc
Scilly (St.Mary's)	cpq	cpoqbc	bc	bc
Guernsey				
Pembroke	cprqbc	probcc	cbc	bc
Holyhead	prbcc	cbcc	cpro bc	bwbc
Chester (Sealand)	cprbc	cprbccPR	prbc	bcpro b
Manchester	cbcproc	cpropr	cmoprq	profg
Spurn Head	bcqc	cbc	bc	bcwzo
Catterick	bczobc	cprobc	bccbc	bw
Tynemouth	bc	bc	bcc	cbc
St. Abbs Head	bcq	bcbq	iro cq	bcq
Leuchars	cciro ciro	ciroc	cmoc	cbcbw
Renfrew (Abbots I.)	cpropriro	ciro	bc	bbcw
Eskdalemuir	cbc	bcprorr	crrirc	cbc
Point of Ayre	bc	ir	ircc	bbcu
Tiree	oidr	c	cpro	cprc
Stornoway	cprro	croir	cir	cpr
Dalwhinnie	ciro	ciro		cprbc
Aberdeen	croro	ciro	clrob	b
Wick	rrprc	prcbc	prcir	cprbc
Lerwick	r (gale)	cir (gale)	cir	cirpro
Blacksod Point	bcc	pc	bc	bcc
Malin Head	cPHRcirc	cjpc	cprcproc	bccprc
Aldergrove	cprocir	ciccproc	cproc	bc
Birr Castle	cprc	cpr	bbc	bbc
Valentia Obsy. †	proPmrqbc	bcproqbc	proqbbcc	cprobbc
Roches Point	probc	bc	probc	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/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.*

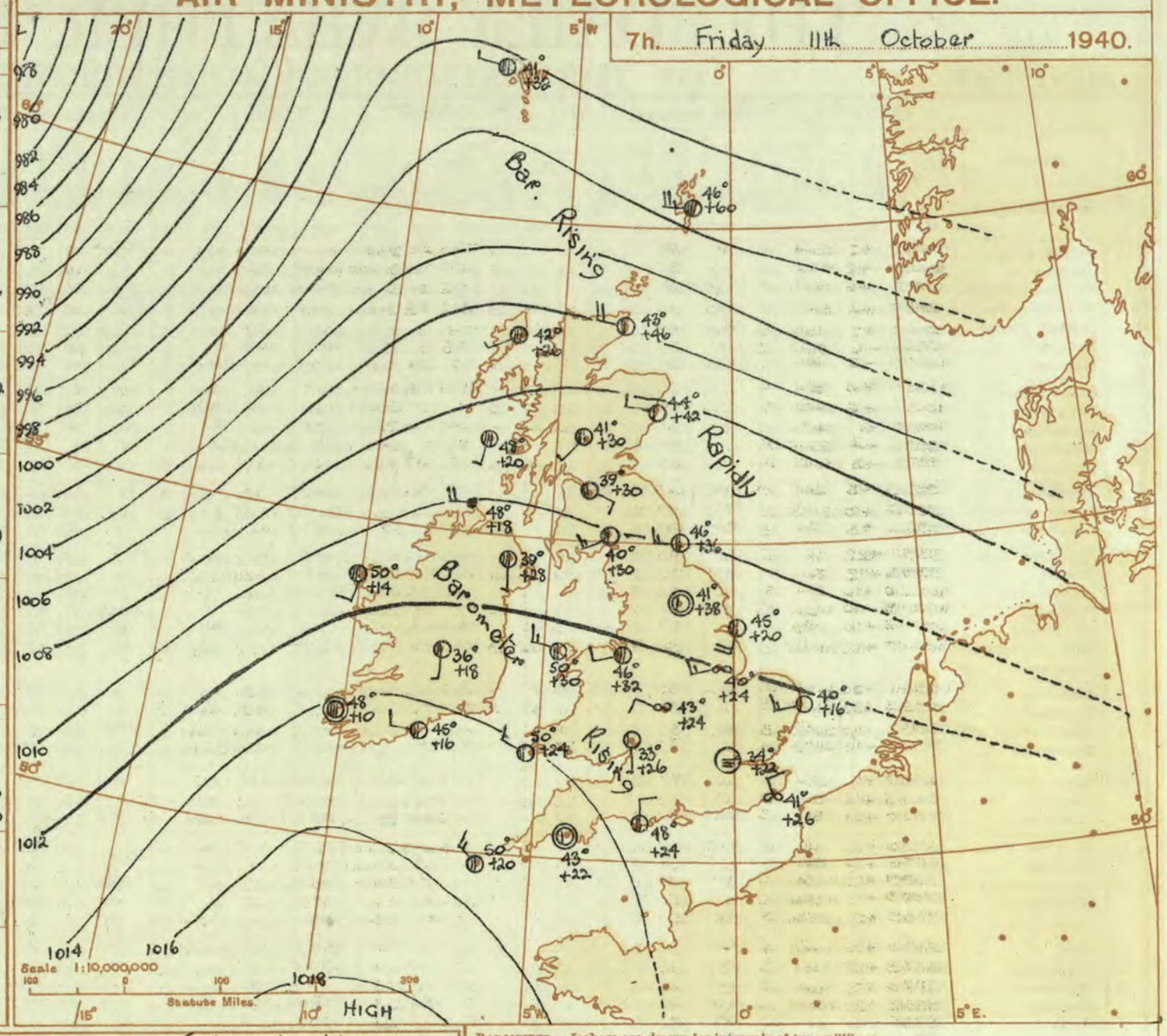
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 11th October 1940.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 10th Oct.			18h. G.M.T.			01h. G.M.T. 11th Oct.			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	6-	81648	58788	62	63543	56668	52	02654	57764	40	25755	25385
115	87	81744	26656	52	81744	24687	52	81744	28587	87	81844	28486
203												
206	87	81855	20385	86	25854	22384	5-	02857	23387			
210							5-	02857	23587			
220	62	66736	28768	9-	03547	28627				54	02845	17227
230	26	63736	24488	67	61735	24567	83	01853	59584	53	01844	00016
245				57	62855	24367	5-	02867	22327	50	00962	26212
260	87	81844	53588	52	51644	22487	50	01875	23315	05	05690	22203
277	62	62643	24568	61	63645	26668						
279	--	01765	20515	--	05646	24526						
285	3-	81746	22586	9-	81637	24587				20	00842	32402
288	84	05664	20513	86	01663	20214	53	01864	18215	50	00862	20218
273	36	63663	29365									
301	8-	02755	20485	9-	81647	26487	8-	25755	26485	86	01853	24313
321	8-	02664	53415	8-	25654	20384	03	05590	21212	00	05590	22100
299				5-	05644	20314	50	08491	22211			
292	83	02755	18415	76	05663	20213	40	01863	20183			
310	--	01634	24514	--	01634	24414				--	44209	24449
316	86	02754	18486	86	05654	18325	07	05590	18112	04	08490	24201
333	3-	25856	26287				10	00851	28201	24	01854	28114
334												
340	88	02855	18526	86	00852	21283	03	00790	26212	54	04861	16102
136	20	01864	19415	30	01852					00	05590	20100
336	--	81743	20488								01732	28414
350	9-	81846	51487	50	00852	18313				00	08490	20100
368	90	02747	22427							81	09061	03101
379	30	25854	20488	20	01752	20302	00	05690	24103	00	00790	26100
390	21	05654	20466				04	43390	18143	00	41490	00040
382	96	28855	22495	84	01861	18302	00	08490	00002	00	43390	28200
438	99	82844	57787							80	02853	06413
430	5-	25857	20587				03	05690	00002			
409				36	10845	27386	83	02755	30226	54	01853	31113

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 11th October, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Light west wind backing southwest or south and freshening, fine today, some rain, tomorrow, average temperature.
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 west wind backing southwest or south becoming strong to gale later, fair at first, rain at times tonight and tomorrow, average temperature.
13 A. W. Scotld. / B. N.W. Scotland. 14 Mid Scotland	Wind backing southwest or south becoming strong to gale; cloudy, showers at first, rain later, heavy in places, average temperature.
15 N. E. Scotland	As 6 - 12
16 Orkneys and Shetlands	As 13 - 14.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Freshening south or southwest wind becoming strong to gale; cloudy, some rain, becoming milder.

GENERAL INFERENCE.

A wedge of high pressure is moving eastward over the British Isles and a very intense depression is approaching Iceland from southwest. After a short fine interval rain will spread eastward across the country and wind will freshen from southwest or south reaching gale force at exposed places in the west and north.

FURTHER OUTLOOK.

Unsettled generally with strong southwest winds, gale locally in the west and north.

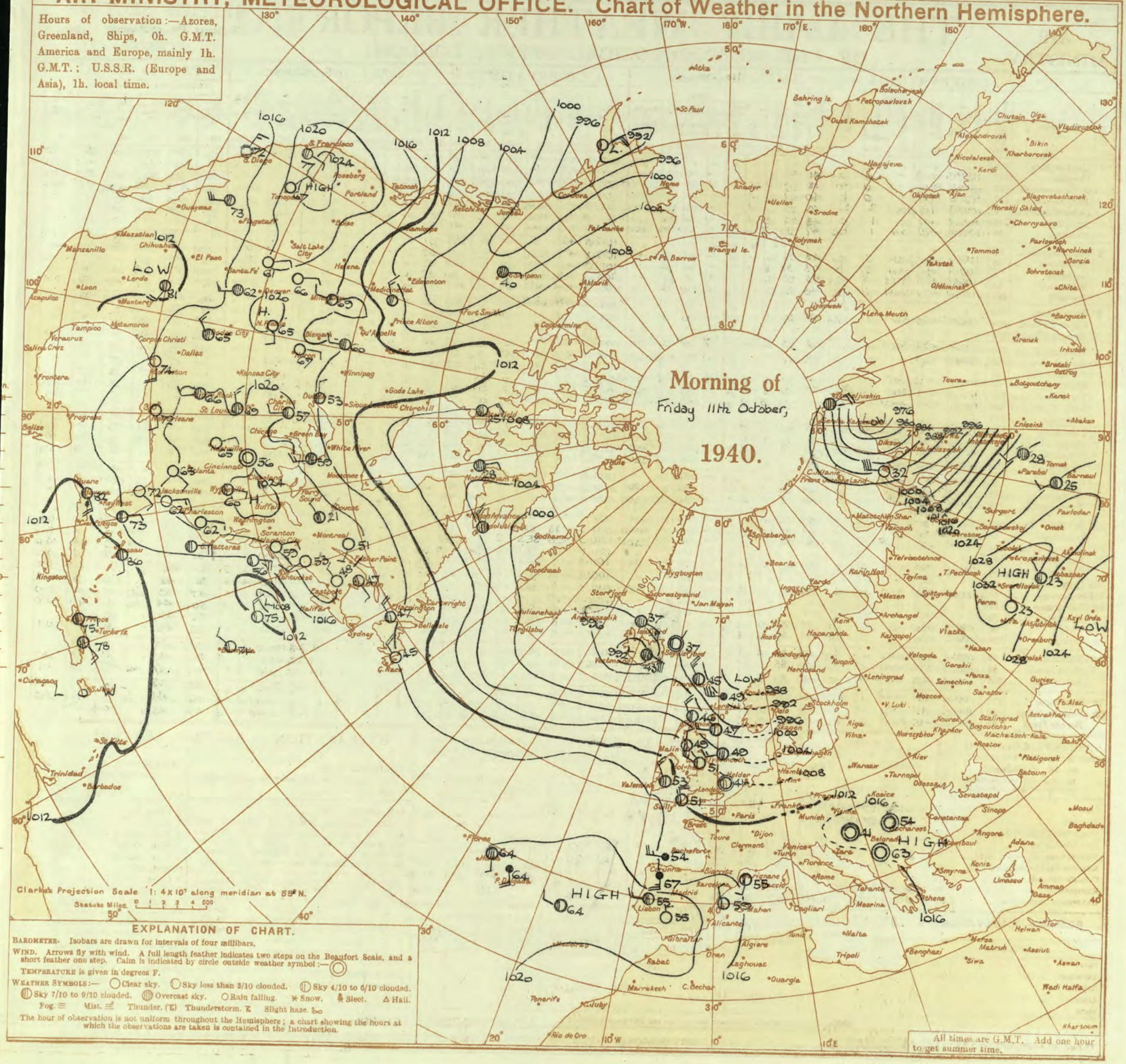
Warning of southerly gale in operation west coasts Fastnet Rock to Cape Wrath.

Forecasts issued at 10.30 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 11th. October 1940.

No. 28813.

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)	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	1008·6	+22	–	0	z.	41	97	5	–	2	–	0	Tr	–
	S. Farnborough	226	1009·5	+26	–	0	m	38	97	4	5	–	1	1	2-3	3000
	Boscombe Down	417	1009·6	+22	–	0	b	40	97	7	4	–	–	1	1	3000
	Calshot (Sthmtn.)	8	1008·8	+18	NNW	2	z.	43	92	6	4	–	–	Tr	Tr	4500
	Lympne ...	346	1009·4	+28	SW	1	c	48	92	8	8	–	8	4-6	7-8	1800
	Manston ...	154	1009·8	+22	SW	1	bc	47	92	7	4	6	–	2-3	4-6	3000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1008·5	+20	WSW	3	z.	48	92	6	–	4	–	0	Tr	–
	Gorleston ...	5	1008·1	+20	SW	2	b	45	92	6	–	–	–	0	0	–
	Mildenhall ...	19	1008·0	+22	SW'S	2	z.	43	92	6	–	–	–	0	0	–
	Cranwell ...	240	1007·4	+22	WSW	3	bc	43	85	5	–	3	1	0	Tr	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1008·5	+20	SW	1	z.	38	97	6	–	4	–	0	1	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1009·4	+22	NNW	4	c	52	75	8	8	–	7	7-8	10	1500
	Bristol ...	209	1009·7	+22	–	0	z.	40	97	6	5	4	6	Tr	4-6	4000
	Portland Bill ...	32														
	Plymouth ...	82	1010·1	+22	NE	1	z.	43	97	6	8	–	6	2-3	7-8	3000
	The Lizard ...	240	1011·0	+22	NW	3	bc pr	47	92	8	8	6	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	1010·5	+20	NNW	4	bc	51	75	8	3	6	–	2-3	4-6	1800
	Guernsey ...	175														
6	Pembroke ...	142	1009·9	+20	NNW	4	bc	51	85	8	7	–	–	2-3	2-3	2500
7	Holyhead ...	26	1007·8	+30	WNW	5	b	51	75	8	5	–	–	Tr	Tr	3000
	Chester (Sealand)	16	1007·4	+30	W	3	pr	49	85	7	3	–	–	7-8	7-8	2000
8	Manchester ...	70	1006·8	+26	SSW	2	z.	*	*	6	8	–	–	4-6	4-6	2300
10	Spurn Head ...	29	1004·4	+16	SSW	3	bc	45	85	6	–	4	–	0	2-3	–
	Catterick ...	175	1004·7	+26	W'S	2	c	48	85	8	5	3	–	4-6	7-8	4000
	Tynemouth ...	108	1003·1	+26	WSW	3	c	49	75	7	5	–	–	7-8	7-8	2300
11	St. Abbs Head	280	1000·4	+32	W	5	c	49	65	8	5	7	–	7-8	9	2500
	Leuchars ...	36	1001·2	+38	W'S	3	c	48	85	7	5	7	–	7-8	9	4000
12	Renfrew (Abbotsl.)	19	1004·1	+42	WSW	3	b	46	85	8	4	–	–	Tr	Tr	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1005·4	+34	NW'W	5	c	50	85	8	8	4	–	7-8	7-8	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1000·9	+30	NW	4	c	46	75	7	8	–	1	9	9	1000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	996·9	+50	W	5	ir	48	92	7	8	7	–	7-8	9+	800
16	Lerwick ...	156	988·5	+60	W	7	ir	49	85	6	8	2	–	7-8	10	800
17	Blacksod Point	18	1003·4	+18	WNW	1	bc	48	85	8	3	–	–	4-6	4-6	1500
18	Malin Head ...	84	1006·3	+32	NNW	2	bc	49	85	8	8	–	1	4-6	4-6	4000
	Aldergrove ...	268	1007·5	+30	SW'W	2	c	45	85	7	5	7	–	4-6	7-8	2500
19	Birr Castle ...	173	1010·1	+18	NNW	1	bc	41	92	8	5	–	–	2-3	2-3	2500
20	Valentia Obsy.	30	1012·5	+16	NNW	3	c	53	75	9	8	–	–	9+	9+	2500
	Roches Point	22	1011·6	+18	NW'N	3	bc	46	85	8	5	–	–	2-3	2-3	2500

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)	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)	1013·4	+24	–	0	F	38	92	1	–	–	–	10	10	<150	1	*
Croydon ...	1012·9	+22	–	0	m	34	97	4	–	–	–	0	0	–	1	*
S. Farnborough	1013·8	+22	–	0	bf	32	97	2	–	–	–	0	0	–	1	*
Boscombe Down	1014·0	+26	–	0	f-	36	97	3	–	–	–	0	0	–	1	*
Calshot (Sthmtn.)	1013·2	+26	NW'N	2	m	40	*	4	5	–	–	Tr	Tr	2500	1	0
Lympne ...	1013·4	+26	NNW	2	z.	41	92	6	2	6	–	Tr	1	1800	1	§
Manston ...	1013·2	+26	WNW	1	z.	41	97	5	2	–	–	1	1	2000	*	*
Shoeburyness ...	1012·9	+20	E	1	m	39	97	4	–	–	–	0	0	–	1	*
Felixstowe ...	1012·3	+22	NW'N	3	z.	43	92	6	–	–	–	0	0	–	0	1
Gorleston ...	1012·3	+16	W'S	3	b	40	92	6	–	4	–	0	1	–	1	2
Mildenhall ...	1012·6	+26	SW'W	2	z.	39	92	6	–	–	–	0	0	–	1	*
Cranwell ...	1012·3	+24	W'S	3	z.	40	97	6	–	–	–	0	0	–	0	*
Birmingham ...	1013·4	+24	WNW	2	z.	43	85	5	–	–	–	0	0	–	1	*
Upper Heyford	1013·5	+24	–	0	b	39	97	7	–	–	–	0	0	–	1	*
Ross-on-Wye	1014·1	+26	S	1	bf	33	97	2	5	–	–	Tr	Tr	2500	1	*
Hartland Point	1014·3	+28	N	3	bc	52	65	8	5	–	3	2-3	2-3	2000	1	3
Bristol ...	1015·1	+30	–	0	z.	36	97	6	–	–	–	0	0	–	1	*
Portland Bill ...	1013·4	+24	N	2	bc	48	92	8	5	–	–	2-3	2-3	4000	1	2
Plymouth ...	1014·4	+22	–	0	b	43	92	6	7	–	–	1	1	3000	1	1
The Lizard ...	1014·5	+20	N	2	bc	46	75	8	8	–	–	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1014·8	+20	NW'N	3	bc	50	75	8	8	7	–	4-6	4-6	1800	1	2
Guernsey ...																
Pembroke ...	1014·0	+24	NW	2	bc	50	85	8	2	7	1	4-6	4-6	2500	1	2
Holyhead ...	1012·7	+30	WNW	3	bc	50	85	8	2	5	4	1	4-6	2200	1	2
Chester (Sealand)	1012·8	+32	WS	2	c	46	85	6	5	–	–	7-8	7-8	3500	1	*
Manchester ...	1012·4	+22	SW'S	1	z.	40	97	5	8	3	–	4-6	4-6	2800	1	*
Spurn Head ...	1010·5	+20	SSW	4	bc	45	92	6	–	–	8	0	2-3	–	1	3
Catterick ...	1011·6	+38	–	0	b	41	85	8	5	–	–	Tr	Tr	4000	0	*
Tynemouth ...	1009·9	+36	W	3	bc	46	75	6	8	–	–	4-6	4-6	3200	1	1
St. Abbs Head	1008·7	+56	NW	4	bcq	46	65	9	4	4	–	2-3	4-6	2500	0	
Leuchars ...	1008·6	+38	SW	1	bc	40	92	9	5	5	–	1	2-3	3500	1	*
Renfrew (Abbotsl.)	1010·3	+30	SE'S	2	bc	39	92	8	5	5	5	Tr	4-6	4000	1	*
Eskdalemuir ...	1011·1	+30	SW'W	3	bc	40	92	8	5	4	1	2-3	4-6	1500	1	*
Point of Ayre ...	1011·9	+34	NW'W	3	c	49	92	8	8	7	3	2-3	7-8	2500	1	2
Tiree ...	1008·8	+20	SSW	1	c	48	85	8	5	–	–	9	9	2500	0	2
Stornoway ...	1007·3	+26	WSW	1	c	42	92	8	5	–	6	1	7-8	1500	1	1
Dalwhinnie ...	1008·1	+30	SSW	1	c	41	75	8	8	4	–	4-6	7-8	2500	1	*
Aberdeen ...	1008·3	+42	WNW	2	b	44	85	8	7	–	–	Tr	Tr	4000	1	1
Wick ...	1005·7	+46	WNW	4	bc	43	85	8	8	7	–	4-6	4-6	1500		
Lerwick ...	1000·7	+60	W	5	c/pr	46	85	7	8	7	–	4-6	9	800	1	*
Blacksod Point	1011·6	+14	S'W	2	c	50	85	8	4	3	–	2-3	7-8	1500	0	2
Malin Head ...	1010·0	+18	W	4	pr	48	92	7	3	–	–	7-8	7-8	4000	1	4
Aldergrove ...	1012·5	+28	S	1	c	39	97	7	5	7	–	7-8	7-8	500	1	*
Birr Castle ...	1013·6	+18	S	1	bc	36	92	8	5	4	–	4-6	4-6	2500	1	*
Valentia Obsy.	1014·6	+10	–	0	c	48	97	9	5	5	6	1	7-8	4000	1	2
Roches Point	1014·8	+16	W'N	2	bc	43	92	8	5	4	–	1	2-3	2500	1	3

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 10th. Hrs. (36)
London (Kew)	55	38	27	3	Tr	4·0
Croydon ...		34	32		–	3·3
S. Farnborough	56	30	25	2	Tr	3·8
Boscombe Down	54	32	29	0·5	Tr	4·2
Calshot (Sthmtn.)	59	39	36	8	–	4·8
Lympne ...	57	39	30	17	1	2·0
Manston ...	*	*	*	*	*	*
Shoeburyness ...	57	37	29	1	–	2·9
Felixstowe ...	58	42	38	Tr	–	4·4
Gorleston ...	58	40	36	–	–	6·2
Mildenhall ...	59	37	29	3	Tr	5·6
Cranwell ...	57	40	37	0·3	Tr	7·4
Birmingham ...	52	42	36	0·5	Tr	3·9
Upper Heyford	55	34	24	3	–	*
Ross-on-Wye	52	33	28	6	–	2·6
Hartland Point	53	51	46	7	–	3·4
Bristol ...	54	35	27	3	–	3·1
Portland Bill ...	56	47	*	3	–	*
Plymouth ...	56	41	*	2	Tr	3·1
The Lizard ...	56	45	*	2	Tr	4·4
Scilly (St. Mary's)	56	50	*	1	–	5·4
Guernsey ...						
Pembroke ...	55	47	*	1	1	3·1
Holyhead ...	55	49	46	Tr	–	6·2
Chester (Sealand)	56	43	32	2	3	4·1
Manchester ...	58	39	31	1	5	5·6
Spurn Head ...	58	43	*	–	Tr	7·9
Catterick ...	54	40	33	Tr	–	6·7
Tynemouth ...	54	45	39	–	–	*
St. Abbs Head	54	46	*	–	Tr	*
Leuchars ...	52	39	31	Tr	–	0·0
Renfrew (Abbotsl.)	50	37	29	1	–	0·0
Eskdalemuir ...	51	39	32	2	5	3·6
Point of Ayre ...	56	48	*	2	2	5·3
Tiree ...	51	46	*	4	0·3	0·4
Stornoway ...	51	42	*	3	3	0·4
Dalwhinnie ...	47	39	30	1	0·2	0·0
Aberdeen ...	50	44	36	1	0·1	0·0
Wick ...	52	42	*	8		*
Lerwick ...	52	45	*	3	1	0·1
Blacksod Point	55	42	*	1	1	*
Malin Head ...	52	44	*	3	1	0·6
Aldergrove ...	51	37	34	Tr	Tr	1·1
Birr Castle ...	55	35	30	3	–	3·8
Valentia Obsy.	56	44	38	1	0·3	6·5
Roches Point	55	45	*	0·4	0·1	*

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. (To-day)
Kew ...	18	cr.ctpr	cprhr.bcbwfofe		55	38	27	3	Tr	4·0	*	*	3
Croydon ...	217	pr	pr.cm.	bcm.		34	32		–	3·3	*	*	5
Greenwich (Royal Observatory) ...	149												
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	58	38	34		1		83	99	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	57	36	28	1	–		63	96	*
Camden Square ...	110			*						*	*		*
Kensington ...	80	bcpbc	bcpbc	*	58	38	27	1	–		65	97	*
Hampstead Observatory ...	450	or bc	bc	bm	55	38	31	2	–		*	94	*

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.
0·2	7-9h 11th	<0·1	11-16h 10th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.
Paris ...										
Brussels ...										
Berlin ...										
Zürich ...										
Rome ...										

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
*	*		

‡ 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 ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

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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

Saturday 12th October 1940.

No. 28814

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)	1016.5	+6	N'W	3	z_o	56	55	6	2	-	-	7-8	7-8	4000
	Croydon	1016.0	+10	-	0	m	54	75	4	1	-	-	4-6	4-6	4000
	S. Farnborough	1016.6	+6	NNW	2	bc	57	55	8	2	-	-	4-6	4-6	3500
	Boscombe Down	1016.7	+10	N'W	2	bc	54	55	8	2	-	-	4-6	4-6	2500
	Calshot (Soton.)	1016.3	+14	NE	1	bc	58	65	8	1	-	-	4-6	4-6	3000
	Lympne	1015.8	+6	N	1	b	57	65	8	7	-	-	1	1	4000
	Manston	1016.3	+8	NW	2	b	55	65	7	2	4	-	Tr	1	2500
2	Shoeburyness	1016.1	+6	SE	1	bc	57	75	6	1	-	-	4-6	4-6	4000
	Felixstowe	1015.3	+2	N'W	2	b	59	55	7	1	-	-	1	1	4000
	Gorleston	1016.0	+14	NNW	3	bc	56	65	6	1	-	-	4-6	4-6	2500
	Mildenhall	1015.9	+6	WNW	2	c	55	65	8	8	-	-	7-8	7-8	3000
	Cranwell	1015.7	+12	NW	3	c	55	55	7	8	-	-	7-8	7-8	2500
3	Birmingham	1016.8	+10	NNW	1	z_o	52	65	6	7	-	-	4-6	4-6	2500
	Upper Heyford	1016.8	+14	NNW	2	bc	57	55	8	2	-	-	4-6	4-6	2500
4	Ross-on-Wye	1016.6	+8	WSW	2	bc	58	85	8	7	-	1	4-6	4-6	4000
5	Hartland Point	1017.3	+12	WNW	1	bc	55	65	9	7	-	5	2-3	4-6	3000
	Bristol	1017.4	+10	NNE	2	bc	54	65	7	1	-	-	4-6	4-6	3000
	Portland Bill	1016.7	+8	NNW	2	bc	57	85	8	2	-	-	4-6	4-6	4000
	Plymouth	1017.4	+10	NNE	3	bc	59	45	8	1	-	1	4-6	4-6	3000
	The Lizard	1017.4	+16	W	2	bc	58	65	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	1017.9	+10	W	2	bc	59	65	8	8	6	-	2-3	2-3	1800
	Guernsey														
6	Pembroke														
7	Holyhead	1015.9	+12	WSW	3	bc	56	65	8	3	-	1	4-6	4-6	3200
	Chester (Sealand)	1016.5	+14	WNW	1	bc	55	55	8	7	-	1	4-6	4-6	3500
8	Manchester	1016.0	+12	W	2	c	53	65	8	8	6	1	4-6	7-8	3000
10	Spurn Head	1015.5	+20	WNW	2	bc	56	65	6	-	4	-	0	2-3	-
	Catterick	1015.7	+22	W'N	1	c	57	45	8	7	-	-	7-8	7-8	3500
	Tynemouth	1014.9	+20	W	3	bc	54	55	8	2	-	-	4-6	4-6	3200
11	St. Abbs Head	1013.8	+20	WNW	2	bc	50	65	9	2	4	-	2-3	4-6	3000
	Leuchars	1013.0	+14	W	2	bc	53	65	8	7	-	-	4-6	4-6	3500
12	Renfrew (Abbots I.)	1013.9	+10	WSW	2	c	54	65	9	8	-	-	9+	9+	2500
	Eskdalemuir	1014.3	+10	W'S	2	bc	52	65	8	5	-	-	4-6	4-6	2500
	Point of Ayre	1015.4	+12	W'N	2	bc	57	65	8	4	4	1	1	2-3	4000
13A	Tiree	1011.0	+6	SW'S	4	c	54	85	8	7	3	-	4-6	7-8	2500
13B	Stornoway		+6	SW	5	c	52	75	8	5	7	-	7-8	9+	2000
15	Dalwhinnie	1012.5	+14	SW	3	c	49	65	8	2	4	-	4-6	7-8	2500
	Aberdeen	1013.0	+18	W'S	2	bc	55	55	8	1	-	9	2-3	2-3	4000
	Wick	1010.6	+20	SW	3	bc	53	65	9	8	6	5	4-6	4-6	1500
16	Lerwick	1009.6	+40	W	4	c	59	65	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	1012.8	+4	S	3	dr	53	92	6	6	-	-	10	10	<150
18	Malin Head	1012.6	+10	SSW	2	c	53	75	8	5	5	-	2-3	7-8	5700
	Aldergrove	1014.7	+2	SW'S	3	bc	55	75	8	8	7	8	4-6	4-6	2500
19	Birr Castle	1015.7	+6	SSW	2	c	56	65	8	8	-	-	9	9	1500
20	Valentia Obsy. †	1016.0	+2	SSW	4	c	56	85	8	5	2	-	9	10	1500
	Roches Point	1016.9	+4	SW'W	2	c	57	75	9	8	-	5	4-6	7-8	2500

OBSERVATIONS at 18h. 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)	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)	1018.8	+18	WNW	1	bf+	49	85	2	-	3	-	0	Tr	-	1	*
Croydon	1018.4	+22	-	0	m	47	92	4	-	-	-	0	0	-	1	*
S. Farnborough	1018.9	+18	-	0	bf_g	50	75	6	4	-	-	Tr	Tr	4500	1	*
Boscombe Down	1018.7	+18	-	0	z_o	51	65	6	4	-	-	Tr	Tr	4000	0	*
Calshot (Soton.)	1018.1	+16	-	0	bf_g	51	85	6	4	-	-	Tr	Tr	5000	1	0
Lympne	1018.3	+16	-	0	b	46	92	7	4	-	-	Tr	Tr	4000	1	§
Manston	1018.9	+16	-	0	z_o	46	85	5	-	-	-	0	0	-	1	*
Shoeburyness	1018.3	+16	-	0	bf_g	49	92	4	-	-	-	0	0	-	1	*
Felixstowe	1018.2	+18	NW'N	1	z_o	53	65	6	4	-	-	Tr	Tr	4500	0	1
Gorleston	1018.0	+20	N'E	2	b	54	75	6	-	4	-	1	1	2500	0	1
Mildenhall	1018.1	+22	-	0	bf_g	48	85	6	5	-	-	1	1	3000	0	*
Cranwell	1017.9	+18	-	0	z_o	50	75	6	8	-	-	9	9	2500	0	*
Birmingham	1018.5	+10	SW	1	c	50	65	6	5	-	-	7-8	7-8	4000	1	*
Upper Heyford	1018.6	+20	W	1	b	50	75	8	4	3	-	Tr	Tr	5700	1	*
Ross-on-Wye	1018.3	+16	S'W	2	bc	50	75	6	5	-	-	4-6	4-6	4000	1	*
Hartland Point	1018.5	+8	W	3	bc	53	75	9	8	-	5	4-6	4-6	1500	0	2
Bristol	1019.0	+14	-	0	b	48	75	7	4	-	-	1	1	4500	1	
Portland Bill	1018.6	+14	NNW	2	bc	58	92	8	4	-	-	2-3	2-3	4000	0	2
Plymouth	1018.4	+8	W'N	2	z_o	54	75	6	4	-	5	2-3	2-3	3000	0	1
The Lizard	1019.2	+10	W	3	bc	53	75	8	8	4	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1019.1	+8	-	0	bc	57	65	8	8	6	-	4-6	4-6	1800	1	1
Guernsey																
Pembroke	1018.4	+6	W'S	3	bc	53	85	8	2	4	-	2-3	4-6	2500	1	1
Holyhead	1017.1	+6	SW	2	bc	50	75	9	5	3	1	1	2-3	3000	1	2
Chester (Sealand)	1017.6	+10	-	0	b	49	85	8	5	-	-	1	1	4500	1	*
Manchester	1017.8	+14	NW	1	z_o	46	85	6	-	4	-	0	Tr	-	0	*
Spurn Head	1017.4	+16	SE'E	2	bc	51	75	6	4	4	-	4-6	4-6	4000	0	1
Catterick	1017.7	+12	W	1	bc	48	75	7	5	-	-	2-3	2-3	3500	0	
Tynemouth	1017.2	+6	WNW	2	bc	52	65	6	2	4	-	2-3	2-3	3400	1	1
St. Abbs Head	1015.3	+4	SSW	2	bc	49	65	8	4	4	-	2-3	2-3	2500	0	1
Leuchars	1014.7	+6	WSW	3	z_o	48	85	6	-	7	6	0	9+	-	1	*
Renfrew (Abbots I.)	1015.3	+10	SSW	1	c	51	85	7	5	7	6	Tr	9+	3000	1	*
Eskdalemuir	1016.4	+10	WSW	2	b	43	75	8	-	-	1	0	1	-	1	*
Point of Ayre																
Tiree	1011.0	0	S	5	rr	51	97	6	-	2	-	10	10	800	1	4
Stornoway	1008.9	0	SSW	7	rr	51	92	6	5	2	-	9	10	1000	1	4
Dalwhinnie	1014.5	+12	SSW	2	c	46	75	8	4	1	-	2-3	10	4000	0	*
Aberdeen	1014.5	+6	SSW	2	bc	49	75	6	7	1	9	Tr	2-3	4000	1	1
Wick	1012.1	+6	SW	4	c	51	75	8	5	1	8	4-6	9+	2500	1	2
Lerwick	1012.5	+10	SSW	3	bc	48	85	8	5	-	-	4-6	4-6	1500	0	*
Blacksod Point	1012.2	0	S	4	c	55	92	7	5	-	-	9+	9+	<150	0	3
Malin Head	1012.1	+2	SSW	4	cpr	52	92	7	6	-	-	9	9	4000	0	4
Aldergrove	1015.1	+2	S'E	2	c	51	75	8	-	7	-	0	9+	-	1	*
Birr Castle	1015.3	0	SSW	1	c	53	75	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy. †	1015.3	-6	S'E	4	bc	53	92	8	5	7	6	2-3	4-6	1500	1	2
Roches Point	1016.9	0	SW	3	bc	54	85	9	5	-	5	2-3	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 11th (37)	Weather 13h.–18h. 11th (38)	Weather 18h. 11th to 1h. 12th (39)	Weather 1h.–7h. 12th (40)
London (Kew)	cfefewczy	bczybff	sFFe	bffe
Croydon	b	bczbm	bf	bffe
S. Farnborough	bfbc	bcybz$_o$	bm$_o$fx	
Boscombe Down	bfxbmbc	bcb	bbf	bmbm$_o$x
Calshot (Soton.)	bmbbc	bybfg	bfg wff	bwffm
Lympne	bmb	bbw	bm$_o$w	bm$_o$wx
Manston	bmb	bm$_o$		
Shoeburyness	bmbc	bcmbbmw	bmbm	bx
Felixstowe	bmbm$_o$y	bcyb	bm$_o$ff	
Gorleston	bz$_o$bc	bcz$_o$	bcbz$_o$w	bbc wz$_o$
Mildenhall	bmbc	bfgm$_o$	bm$_o$bcmbmw	bwmbm$_o$
Cranwell	bmbccy	b	bc	
Birmingham	bbcz	bcc	czbc	bcbxm
Upper Heyford	bjfbbc	bcb	b	bm$_o$mFbmx
Ross-on-Wye	bbc	bcy	bcbm$_o$	bmfw
Hartland Point	bc	bc	bc	bcbbc
Bristol	bfgbz$_o$vc	bcb	bbwfg	bbcfg
Portland Bill	bc	bc	bb	bbc
Plymouth	bmbcy	bcybcb		bcm$_o$bcw
The Lizard	cbc	bc	bcw	cbc
Scilly (St. Mary's)	bc	bc	bcb	bbcpc
Guernsey				
Pembroke		pr$_o$bc	bc	bcv
Holyhead	bcwbc	bcb	bc	cbc
Chester (Sealand)	bcm$_o$bbc	bc	b	bmm$_o$xb
Manchester	mffbc	bcb	f	bmFF
Spurn Head	bc	bc	bcw	c
Catterick	bwbcy	bcybc	bm$_o$xfg	bm$_o$xfg
Tynemouth	bc	bc	bccbc	bcbm
St. Abbs Head	bc	bccbc	bbc	bc
Leuchars	bwbbc	bccm$_o$	bcwcm$_o$w	cm$_o$wcw
Renfrew (Abbots I.)	bcwc	c	cm$_o$ir$_o$	cm$_o$ir$_o$cm$_o$
Eskdalemuir	bc	bcb	bbc	bcwc
Point of Ayre	bc		bbcc	cpr$_o$
Tiree	bcc	cd$_o$rr	crrdc	cbc
Stornoway	cbccd$_o$	crr	cr$_o$r$_o$	c
Dalwhinnie	bccbc	bc		cprc
Aberdeen	bby	bybz$_o$	bz$_o$	bbz$_o$
Wick	pr	bcc	c	c
Lerwick	cpc	cbc	bcc	c
Blacksod Point	dr	c	c	c
Malin Head	bcc	c	cpr$_o$	bcc
Aldergrove	cb	bccp$_o$cc	c	cbwbc
Birr Castle	bcc	c	cb	bcc
Valentia Obsy. †	bc	cid$_o$ir$_o$cbc	bccid$_o$c	cbccid$_o$
Roches Point	bcc	bc	bc	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.*

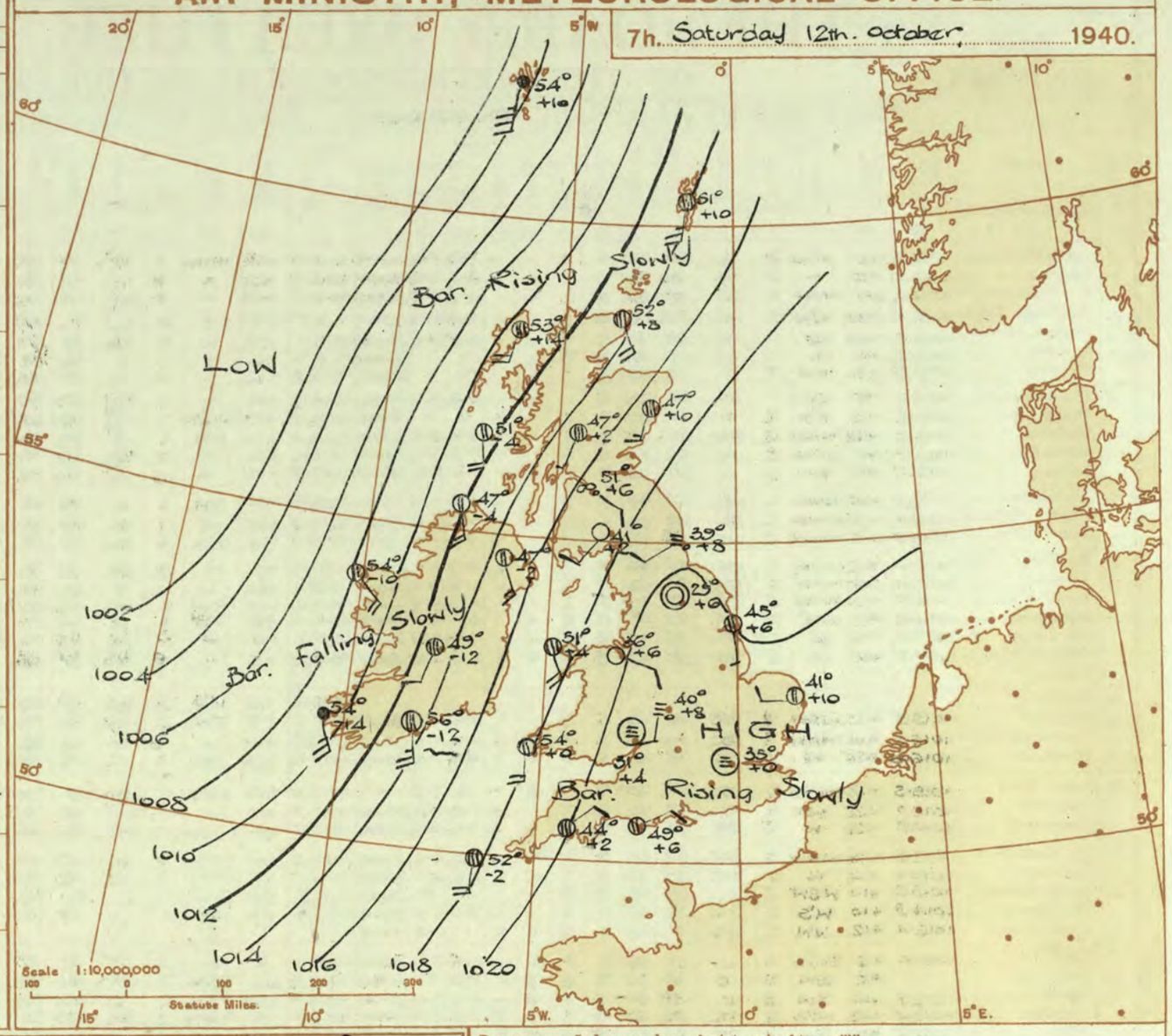
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 12th. october 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 11th. Oct.			18h. G.M.T.			01h. G.M.T. 12th. Oct.			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
10080	01964	22484				5-	02766	16416			
11587	02944	20486	52	62834	20567	52	02554	20565	52	81844	18483
203									57	02844	16627
20675	01964	22215	5-	02747	16867	52	02837	20268	53	02755	07126
21010	01963	22214				57	51864	18166			
22052	02845	22428	62	64726	23568				54	01952	17403
2305-	10944	18317	47	02854	16268	52	51744	18358	57	02944	14258
24510	01963	24313	50	05671	22223	53	08872	20824	5-	21757	00057
2608-	02866	22226	40	17563	00013	57	02962	18127	53	02765	16126
27720	01954	28315	07	01890	16214	5-	02868	15818	53	02864	17317
279--	01864	22414	--	05664	20314						
285			40	01846	28215		.		40	04803	28315
28810	01865	28204	50	05663	22113	00	05690	20100	--	48109	16249
27353	01763	20505							51	01753	14303
30123	01963	25314	40	00861	26101	00	47290	10143	55	41474	10144
32110	17663	26103	53	17563	00024	00	47390	00040			
299			50	05652	00002	50	00751	02101	57	08643	22213
292			40	00562	00012	00	09490	00000	--	46009	10143
310--	01634	24814	--	01643	24213				--	01634	20214
3168-	05664	24214	40	05554	26214	00	47290	00040	50	47272	00012
33320	01963	22214	40	01963	22214	50	02854	16425	26	01964	16414
334											
34020	01964	24114	40	01864	00014	00	05690	00000	50	45163	14143
13610	01762	25202	07	01690	00002						
336--	01852	28414	--	01851	32413				--	41218	24348
35020	02855	30215	00	01690	24214				03	05590	00043
36810	01753	26213	43	00862	24102						
37920	01754	32315	04	05690	30101	00	05690	00000			
39010	01755	30215	40	04661	00011	00	47290	00040	03	08490	00044
38280	02855	30325	04	04790	30101	00	04590	00000	00	47190	00040
43870	01753	03313							80	01753	04313
43010	01754	04314	00	05590	28110	00	05690	00000			
40926	01953	28184	40	00952	00012	04	00790	03101	74	00873	12303

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 12th October
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light to moderate south or southeast wind, fair or fine, local mist or fog in morning: average day temperature, ground frost at night.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate southerly wind; cloudy or variable sky, slight local rain later.
9 N. Midlands ... 10 N.E. England	As 0-4
11 S.E. Scotland	Moderate southerly wind: fair, milder.
12 S.W. Scotland & Isle of Man	As 5-8
13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland	Fresh or strong southerly wind; cloudy, occasional rain or drizzle, mild.
15 N. E. Scotland	As 11
16 Orkneys and Shetlands 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 13-14

GENERAL INFERENCE.

A small anticyclone over Eastern England is moving northeast and developing. A deep depression is centred near Iceland and secondaries to it are encroaching on our Western districts. Weather will be fair the East but cloudy with slight local rain in the West.

FURTHER OUTLOOK.

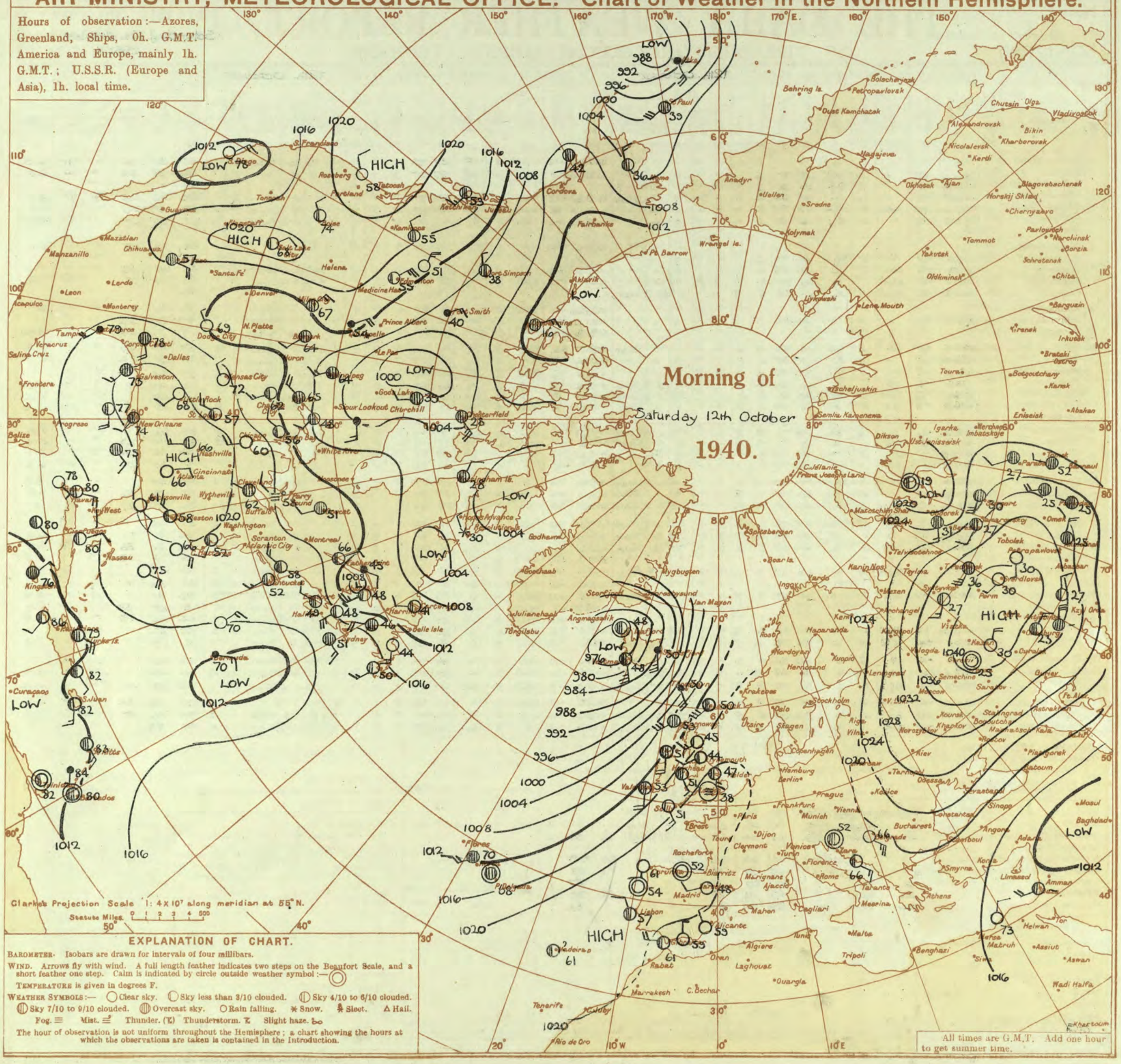
Mild southerly winds, generally cloudy with occasional rain or drizzle in the West, probably fair in the East.

Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday 12th October, 1940.
No. 28814

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	1020.4	+2	–	0	bf	38	97	3	-	-	-	0	0	-
	S. Farnborough	226	1020.8	+2	–	0	bf	33	92	3	-	-	-	0	0	–
	Boscombe Down	417	1020.5	+2	–	0	bfm	38	92	4	1	-	-	Tr	Tr	3500
	Calshot (Sthmtn.)	8	1019.8	+2	NNW	2	bf–	43	97	3	-	-	-	0	0	–
	Lympne	346	1019.9	+2	–	0	z_0	42	92	6	-	-	-	0	0	–
	Manston	154	10													
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1019.8	+2	N'W	2	bf–	44	97	3	-	-	-	0	0	–
	Gorleston	5	1019.5	+2	WNW	2	b	45	85	6	-	-	-	0	0	–
	Mildenhall	19	1020.1	+6	SSW	1	m	36	97	4	–	3	–	0	2-3	–
	Cranwell	240	1020.2	+4	NNW	1	z_0	41	92	5	5	-	-	2-3	2-3	3000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1020.3	+4	–	0	b	38	97	7	-	-	-	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1018.9	-6	S	2	bc	46	85	9	4	-	-	1	1	1500
	Bristol	209	1020.0	0	–	0	fg	35	97	6	-	-	-	0	0	–
	Portland Bill	32	1020.0	-8	N	2	b	47	92	8	-	-	-	0	0	–
	Plymouth	82	1019.6	-6	NE	1	z_0	44	85	6	5	-	1	2-3	2-3	3500
	The Lizard	240	1019.1	-6	SE'S	2	bc	49	92	8	4	-	-	2-3	2-3	2000
	Scilly (St. Mary's)	163	1018.7	-8	S'E	3	b	51	85	9	5	-	-	1	1	2500
	Guernsey	175														
6	Pembroke	142	1018.2	-4	S	4	bc	54	92	8	7	-	-	4-6	4-6	2000
7	Holyhead	26	1017.2	-2	SSE	1	c	51	92	9	8	-	-	9	9	2200
	Chester (Sealand)	16	1019.0	0	SE'S	2	m	37	97	4	-	-	1	0	Tr	–
8	Manchester	70	1019.2	0	E'S	1	bF	34	97	1	-	-	-	0	0	–
10	Spurn Head	29	1019.6	+6	S	3	bc	47	85	6	4	-	-	4-6	4-6	4000
	Catterick	175	1019.6	+2	–	0	fg	33	97	6	5	-	-	1	1	2500
	Tynemouth	108	1018.6	-2	WSW	2	z_0	44	85	5	2	-	-	2-3	2-3	3200
11	St. Abbs Head	280	1016.8	-2	SW	4	bc	44	85	8	4	4	-	2-3	2-3	2500
	Leuchars	36	1016.0	0	W	1	z_0	47	85	6	6	3	-	2-3	9	3500
12	Renfrew (Abbots I.)	19	1016.1	-2	SSE	2	ir_0	50	85	6	5	7	-	9+	10	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1017.0	0	SW'S	3	c	48	97	8	2	5	6	Tr	7-8	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1009.6	+6	SW	6	c	53	97	7	6	2	-	7-8	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1012.3	+2	SSW	4	c	51	85	8	5	7	-	7-8	9+	1500
16	Lerwick	156	1013.1	+4	S'W	6	c	50	75	8	5	3	-	4-6	7-8	1500
17	Blacksod Point	18	1011.0	-6	S	5	c	55	85	8	3	-	-	10	10	800
18	Malin Head	84	1012.4	0	S	4	c	51	85	8	4	8	-	2-3	7-8	5700
	Aldergrove	268	1015.5	-2	SSE	3	c	51	75	8	5	-	-	9+	9+	3000
19	Birr Castle	173	1010.0	-4	SSW	2	b	46	97	8	-	-	-	0	0	–
20	Valentia Obsy.	30	1012.9	-16	S'E	4	c	53	85	8	8	-	-	9+	9+	2500
	Roches Point	22	1015.7	-10	SW	5	bc	53	85	8	5	-	5	4-6	4-6	2500

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)	1021.4	+8	–	0	F	37	92	1	-	-	-	10	10	<150	1	*
Croydon	1020.5	0	–	0	bf	35	97	3	-	-	-	0	0	–	1	*
S. Farnborough																*
Boscombe Down	1021.3	+6	–	0	z_0	35	97	5	-	-	-	0	0	–	1	*
Calshot (Sthmtn.)	1020.4	+6	NNW	2	b/f	39	97	4	5	-	-	Tr	Tr	6000	1	0
Lympne	1021.3	+10	NW	1	fg	42	92	6	5	-	-	2-3	2-3	5000	1	2
Manston																
Shoeburyness	1021.6	+10	–	0	fg	35	97	3	-	4	-	0	Tr	–	1	*
Felixstowe																
Gorleston	1021.0	+10	W	2	bc	41	92	6	4	-	-	4-6	4-6	2500	0	1
Mildenhall	1021.1	+10	SSW	1	z_0	33	97	5	5	-	-	4-6	4-6	5500	1	*
Cranwell																*
Birmingham	1020.6	+8	SSW	2	m	40	92	4	5	-	-	Tr	Tr	1500	1	*
Upper Heyford	1021.6	+10	–	0	b/f	34	97	4	5	-	-	1	1	4000	1	*
Ross-on-Wye	1020.8	+4	–	0	F	31	97	1	-	-	-	10	10	<150	1	*
Hartland Point	1018.7	+2	SSE	3	bc	43	85	8	4	-	1	2-3	2-3	2500	0	2
Bristol	1021.2	+6	–	0	fg	32	97	6	5	-	-	4-6	4-6	5200	1	*
Portland Bill	1020.1	+6	ENE	2	bc	49	85	8	5	-	-	2-3	2-3	2500	0	2
Plymouth	1019.4	+2	NE	2	bc	44	85	8	8	-	1	7-8	7-8	2500	0	1
The Lizard	1018.5	0	S	3	bc	52	85	8	8	6	-	4-6	4-6	2000	0	2
Scilly (St. Mary's)	1017.5	-2	SSW	4	c/pr	52	92	8	8	7	-	7-8	9+	1800	1	2
Guernsey																
Pembroke	1017.9	0	S'W	4	bc	54	92	9	8	4	-	4-6	4-6	2000	1	2
Holyhead	1017.2	+4	SSE	4	bc	51	92	8	5	3	-	2-3	2-3	5000	1	2
Chester (Sealand)	1019.6	+6	SE'E	2	bc	36	97	6	5	-	1	Tr	Tr	4000	1	*
Manchester	1019.9	+8	–	0	bF	34	97	1	-	-	-	0	0	–	1	*
Spurn Head	1019.8	+6	S	1	c	45	97	6	-	6	-	0	4-6	–	0	1
Catterick	1020.4	+6	–	0	fg	29	97	5	-	3	-	0	0	–	0	*
Tynemouth	1019.7	+8	SW	2	m	39	85	4	-	4	-	0	1	–	1	1
St. Abbs Head	1017.0	+6	SW	4	bc	44	85	9	4	4	2	1	2-3	3000	0	2
Leuchars	1017.0	+8	SW	1	c	50	85	7	5	1	-	2-3	9	4000	1	*
Renfrew (Abbots I.)	1016.6	+6	SE'S	2	z_0	51	85	6	5	3	5	7-8	7-8	3500	1	*
Eskdalemuir	1018.3	+2	SW'S	2	c	41	97	7	5	-	-	9+	9+	1500	1	
Point of Ayre	1017.1	0	SW'S	3	c	52	92	8	8	-	-	9	9	1500	1	2
Tiree	1011.3	-4	S	4	bc	51	92	8	5	4	6	1	2-3	2800	0	3
Stornoway	1010.5	+14	SSW	6	c	53	85	8	5	4	4	1	7-8	1800	1	3
Dalwhinnie	1015.5	+2	SSW	1	c	47	92	7	3	-	-	9	9	1500	1	*
Aberdeen	1016.1	+10	SSW	3	bc	47	92	6	5	7	9	Tr	7-8	1500	1	1
Wick	1013.2	+8	SSE	4	c	52	85	8	5	7	8	7-8	9	1500	1	2
Lerwick	1014.1	+10	S'W	5	c	51	85	7	5	3	-	7-8	9	1600	1	*
Blacksod Point	1008.0	-10	SE	4	c	54	75	8	4	-	-	7-8	7-8	800	0	3
Malin Head	1011.8	-4	SSE	3	c	47	85	8	4	3	2	2-3	4-6	1500	0	2
Aldergrove	1015.2	-2	SE'S	3	bc	47	85	8	5	7	1	2-3	4-6	2500	1	*
Birr Castle	1012.9	-12	SSW	2	c	49	92	8	-	4	5	0	7-8	–	1	*
Valentia Obsy.	1009.4	-14	S'E	5	id_0	56	85	7	5	-	-	10	10	1500	1	3
Roches Point	1012.9	-12	S	5	bc	56	85	8	5	-	5	2-3	4-6	1500	1	4

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	36	26	–	Tr	6.3
Croydon	56	35	34	–	–	4.4
S. Farnborough	60			–		
Boscombe Down	56	32	26	Tr	Tr	8.2
Calshot (Sthmtn.)	59	39	36	–	–	8.8
Lympne	62	38	27	–	Tr	9.7
Manston						
Shoeburyness	58	33	27	–	–	8.1
Felixstowe				–		
Gorleston	58	41	35	–	–	9.0
Mildenhall	58	33	25	–	Tr	7.6
Cranwell	58			–		
Birmingham	56	40	29	–	–	6.1
Upper Heyford	64	33	22	–	–	*
Ross-on-Wye	59	31	27	–	–	8.6
Hartland Point	57	43	40	–	–	8.6
Bristol	59	31	24	–	–	8.7
Portland Bill	57	44	*	–	–	*
Plymouth	59	41	*	–	–	7.9
The Lizard	60	47	*	Tr	–	8.4
Scilly (St. Mary's)	60	48	*	–	0.3	10.3
Guernsey						
Pembroke	56	52	*	0.1	–	7.4
Holyhead	57	49	43	–	–	9.4
Chester (Sealand)	58	32	31	Tr	–	7.6
Manchester	57	33	25	–	–	6.3
Spurn Head	55	49	*	–	–	8.5
Catterick	59	29	25	–	–	8.5
Tynemouth	56	39	37	–	–	*
St. Abbs Head	52	42	*	–	–	*
Leuchars	56	41	52	–	–	6.3
Renfrew (Abbots I.)	56	46	38	–	Tr	3.8
Eskdalemuir	53	35	29	–	–	4.6
Point of Ayre	58	43	*		Tr	7.0
Tiree	54	50	*	1	2	2.6
Stornoway	53	51	*	4	1	2.4
Dalwhinnie	51	45	39	–	Tr	2.0
Aberdeen	56	44	39	–	–	8.2
Wick	55	42	*	0.1	–	*
Lerwick	51	47	*	0.5	–	2.8
Blacksod Point	56	52	*	0.1	–	*
Malin Head	53	44	*	Tr	–	3.5
Aldergrove	56	46	42	Tr	–	4.4
Birr Castle	57	45	42	–	–	3.6
Valentia Obsy.	57	52	47	0.2	Tr	2.1
Roches Point	58	53	*	–	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.	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	cfefewcz	ybcz₀yoff	oFFeb	57	36	26	–	Tr	6.3	*	*	1
Croydon	217	b	bcz₀bm₀	bffe	56	35	34	–	–	4.4	*	*	4
Greenwich (Royal Observatory)	149	bfm₀	bbcb	bzfx	56	34	25	–	Tr	4.5	66	88	2
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	60	38	34	Tr			65	99	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	58	37	29	–	–		70	95	*
Camden Square	110	o	bc	*	60	37	33	–	–	*	*	97	*
Kensington	80	bc	bcz	*	59	38	27	–	–		83	99	*
Hampstead Observatory	450	bcm	bcm₀	bm	56	41	32	–	–		*	84	*

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.
0.4	21h 11th	<0.1	12-16h 11th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome														

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 13th October 1940.

No. 28815

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)	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)...	1021.4	+8	SSE	3	z	57	65	6	1	-	-	1	1	2500
	Croydon ...	1020.5	-10	SSE	1	bc	60	65	7	2	3	-	2-3	4-6	3500
	S. Farnborough	1020.3	-18	SE	2	bc	59	55	7	1	4	-	4-6	4-6	4000
	Boscombe Down	1019.4	-16	SE	3	z	58	65	7	2	-	-	4-6	4-6	5000
	Calshot (Soton.)	1019.8	-6	SE'E	4	bc	57	85	8	2	3	-	2-3	2-3	3000
	Lympne ...	1021.1	-6	E	2	b	58	75	8	2	[illegible]	r	1	1	2500
	Manston ...	1021.8	-6	SSE	3	bc	58	75	7	2	4	3	1	2-3	4000
2	Shoeburyness ...	1021.3	-8	SE	1	b	58	65	6	1	-	-	tr	tr	2500
	Felixstowe ...	1022.0	-4	SSE	2	z	60	65	6	2	-	4	2-3	2-3	3000
	Gorleston ...	1021.5	-6	SE'S	2	bc	57	75	6	2	3	-	2-3	4-6	2500
	Mildenhall ...	1020.7	-12	-	0	bc	59	45	7	1	-	-	4-6	4-6	3000
	Cranwell ...	1020.6	-12	S	1	bc	57	45	7	5	-	-	4-6	4-6	4000
3	Birmingham	1019.4	-8	S	3	bc	56	55	8	1	3	-	2-3	4-6	4000
	Upper Heyford	1020.0	-14	S	2	z	57	65	5	-	3	-	0	1	-
4	Ross-on-Wye ...	1019.0	-12	SSE	2	c	55	65	7	7	7	-	7-8	9+	4000
5	Hartland Point	1017.2	-14	S	3	bc	56	55	9	7	-	4	4-6	4-6	2800
	Bristol ...	1019.5	-14	SE	2	z	57	75	6	2	-	-	4-6	4-6	3500
	Portland Bill ...	1019.4	-10	SSE	1	bc	58	92	8	5	-	-	4-6	4-6	4000
	Plymouth ...	1018.1	-14	S	3	bc	57	65	8	8	-	2	4-6	4-6	2500
	The Lizard ...	1017.4	-10	SSE	4	bc	57	75	8	8	5	-	4-6	4-6	2500
	Scilly (St. Mary's)	1016.0	-16	SSE	5	c	57	65	8	8	4	4	4-6	7-8	1800
	Guernsey ...														
6	Pembroke ...	1015.8	-4	S'E	5	bc	57	70	8	8	6	1	4-6	4-6	2500
7	Holyhead ...	1016.0	-10	SSE	5	bc	57	65	8	2	-	5	1	2-3	3000
	Chester (Sealand)	1018.3	-12	S'E	3	bc	57	55	8	1	3	-	2-3	2-3	4000
8	Manchester ...	1018.8	-14	S	3	bc	57	55	8	1	-	-	2-3	2-3	4200
10	Spurn Head ...	1020.7	-6	S'E	3	b	57	55	7	4	-	-	1	1	4000
	Catterick ...	1019.1	-14	S	1	m	52	75	4	5	-	-	2-3	2-3	4500
	Tynemouth ...	1019.2	-12	SSW	3	bc	55	55	6	1	-	-	2-3	2-3	3600
11	St. Abbs Head	1017.4	+2	SSE	3	bc	54	65	8	4	4	-	2-3	2-3	3000
	Leuchars ...	1016.6	-6	S	3	bc	57	75	7	2	3	-	2-3	4-6	2800
12	Renfrew (Abbots I.)	1015.4	-12	S	4	c	57	65	7	8	-	-	9+	9+	3000
	Eskdalemuir ...	1016.7	-10	SSW	4	c	51	65	8	5	-	-	9	9	1500
	Point of Ayre ...	1016.5	-4	SSW	5	bc	58	75	8	2	4	-	1	2-3	2500
13A	Tiree ...	1010.4	-4	SSE	6	bc	57	85	8	5	3	-	4-6	4-6	2500
13B	Stornoway ...	1010.9	0	S	6	c	54	75	8	5	4	6	7-8	9	2500
15	Dalwhinnie ...	*	-2	SSW	3	c	50	75	6	8	-	-	9+	9+	2500
	Aberdeen ...	1016.7	-2	SSW	4	bc	54	85	6	1	-	9	2-3	2-3	1500
	Wick ...	1013.5	-2	SSW	4	bc	54	85	7	5	4	-	2-3	2-3	2500
16	Lerwick...	1015.7	+4	S	6	c	51	85	7	5	7	-	7-8	9+	1500
17	Blacksod Point..	1004.7	-20	S'E	6	cq	57	75	8	9	-	-	10	10	1500
18	Malin Head ...	1009.2	-18	S	5	c	56	75	8	5	6	-	4-6	7-8	4000
	Aldergrove ...	1013.6	-6	S'E	4	c	56	65	9	7	-	-	9+	9+	3000
19	Birr Castle ...	1011.5	-8	SW	3	c	56	75	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1007.0	-18	S	6	c/d	57	85	7	5	-	-	10	10	1500
	Roches Point ...	1011.2	-14	S	6	c	57	85	8	5	3	-	4-6	7-8	1500

OBSERVATIONS at 18h. 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)	1019.5	0	SSE	2	z	58	75	6	5	-	-	9	9	2500	1	*
Croydon	1019.4	-4	SSE	1	m	52	85	4	5	-	-	4-6	4-6	4000		*
S. Farnborough	1019.1	-4	SE	2	z	52	85	6	-	3	1	0	1	-	1	*
Boscombe Down	1018.1	-2	SE'S	2	c	49	92	7	4	5	-	2-3	7-8	4000	0	*
Calshot (Soton.)	1018.2	-10	SE	4	z	55	85	6	1	3	-	tr	2-3	3000	1	2
Lympne	1020.4	+2	ESE	1	bc	50	85	8	5	-	-	4-6	4-6	2000	1	§
Manston	1020.9	-4	-	0	b	52	85	7	2	3	-	1	1	4000		*
Shoeburyness	1020.2	-6	SE	3	b	53	85	7	4	4	-	tr	tr	4000	0	*
Felixstowe	1020.7	-4	SE	3	b	51	85	7	-	4	-	0	1	700	1	0
Gorleston	1021.0	+2	SW'W	3	bc	55	75	6	5	-	-	4-6	4-6	1700	0	1
Mildenhall	1019.6	-4	SE	2	z	49	85	6	-	-	-	0	0	-	0	*
Cranwell	1019.3	-6	SE	1	bc	47	85	6	5	-	-	4-6	4-6	3000	0	*
Birmingham	1017.9	-6	SE	2	c	51	75	5	5	7	-	2-3	7-8	2500	1	*
Upper Heyford	1018.7	-6	SE	2	z	51	75	6	-	3	-	0	2-3	-	1	*
Ross-on-Wye	1017.1	-6	ESE	3	z	53	75	6	2	3	-	2-3	4-6	2500	1	*
Hartland Point	1016.1	-10	S	3	bc	50	85	8	2	-	6	2-3	4-6	2000	0	2
Bristol	1017.1	-8	SSE	2	c	53	85	7	7	3	-	4-6	9	2500	1	*
Portland Bill	1017.3	-12	SSE	2	bc	57	92	8	1	4	-	4-6	4-6	4000	0	2
Plymouth	1016.1	-10	SSE	3	bc	54	75	8	1	-	6	1	4-6	2500	0	2
The Lizard	1015.0	-12	SSE	4	c	53	75	8	8	5	-	7-8	7-8	2500	0	2
Scilly (St. Mary's)	1013.4	-8	SSE	5	c	54	85	8	8	7	3	2-3	9+	1800	1	3
Guernsey																
Pembroke	1013.8	-12	S	6	cq	55	85	8	5	7	-	4-6	7-8	2000	1	3
Holyhead	1014.6	-6	SSE	3	c	58	65	8	8	3	6	4-6	7-8	2800	1	2
Chester (Sealand)	1016.8	-6	SSE	1	z	47	85	5	5	-	4	1	2-3	3500	1	*
Manchester	1017.5	-6	SE'E	2	m	49	75	4	5	3	-	1	7-8	3000	1	*
Spurn Head	1019.6	0	ESE	4	bc	53	75	6	-	-	8	0	4-6	-	0	3
Catterick	1018.2	0	S'W	1	m	47	75	4	5	-	-	1	1	4000	0	
Tynemouth	1018.5	-4	S	3	bc	50	75	6	2	-	-	2-3	2-3	3400	1	1
St. Abbs Head	1016.4	0	S	2	bc	48	75	8	4	4	-	2-3	4-6	2500	0	1
Leuchars	1016.0	0	SSE	3	bc	50	75	7	5	-	-	4-6	4-6	4000	1	*
Renfrew (Abbots I.)	1014.9	+2	SE'E	3	c	50	75	8	4	3	1	4-6	7-8	5000	1	*
Eskdalemuir	1016.2	0	SW	3	c	46	78	7	5	-	-	7-8	7-8	1500	1	*
Point of Ayre	1014.9	-8	SSW	3	bc	53	85	8	8	4	6	1	4-6	2500	0	2
Tiree	1009.5	-2	SSE	6	bc	54	92	8	5	-	-	4-6	4-6	2500	0	4
Stornoway	1009.8	-6	SSE	6	c	54	75	8	5	7	-	7-8	9+	2000	1	3
Dalwhinnie	1014.6	-4	SSW	2	c	48	75	6	4	-	-	7-8	7-8	2500	0	*
Aberdeen	1016.3	+2	S'W	2	b	51	85	6	5	-	9	tr	tr	4000	0	1
Wick	1012.8	0	S	5	bc	52	85	7	5	4	-	2-3	4-6	2500		
Lerwick	1016.0	+8	S	7	c	50	85	7	5	7	-	4-6	7-8	800	1	*
Blacksod Point	1003.6	-6	S'E	6	RR	55	92	6	6	-	-	10	10	<150	2	4
Malin Head	1007.9	-2	SSE	5	c	54	75	8	9	-	-	9	9	5700	0	2
Aldergrove	1011.8	-6	SSE	4	c	52	75	8	5	7	7	2-3	9+	3500	1	*
Birr Castle	1009.4	-8	SSW	4	c	54	75	8	5	1	-	7-8	10	2500	1	*
Valentia Obsy. †	1004.6	-16	S'E	6	c/r	56	97	7	6	2	-	7-8	10	800	1	4
Roches Point	1008.9	-14	S	7	c	56	85	8	6	1	-	7-8	9+	1500	1	5

PAST 24 HOURS.

Stations	Weather 7h.—13h. 12th (37)	Weather 13h.—18h. 12th (38)	Weather 18h. 12th – 1h. 13th (39)	Weather 1h.—7h. 13th (40)
London (Kew)	oFbcfgy	bcbccz	bcbfg w	bfgmw
Croydon	bmbc	cbcm	bm	bmwcm
S. Farnborough	bfbc	bcbm	bmbcbf	bfxom
Boscombe Down	bcm	bc	bcm₀w	bcm bfw
Calshot (Soton.)	bmbmbc	bcbm₀	bm₀cwbm₀	bcwbm₀b
Lympne	opcmb	bbcw	bcwm₀c	cbwfg
Manston		bcb	bcbmm₀	bbcm₀
Shoeburyness	bfFbm	bmb	b,bbw	bwbc
Felixstowe	bcfbm₀	bcmb	bmbcm₀b	bm₀w cbcb
Gorleston	bcz	bc	bcc	
Mildenhall	bcmxbmbc	bcybcbm	bm₀mf	bfw Fbcfex
Cranwell	bcbcy	bcy	bcbm₀f	bff,ff
Birmingham	bmbc	bc	cb	bof
Upper Heyford	bm	bmbcmb	bm₀bf	oFbFFof
Ross-on-Wye	Fcfombc	ccz	bcbbccp₀	cbbc
Hartland Point	bcy	bc	bcc	cbcc
Bristol		bcyc	cd₀bcf	
Portland Bill	bcb	bc bc	bcc	bcbc
Plymouth	bccbc		c	c
The Lizard	bc	bcc	c	c
Scilly (St. Mary's)	cbcc	c	c	c
Guernsey				
Pembroke	bc	bccq	bcc	bccq
Holyhead	cb	bybc	bcc	cbcwc
Chester (Sealand)	bcbm	bybcm	bmm₀wbc	cmc
Manchester	bzy	bbcybz	*	bcm bm₀
Spurn Head	cbc	bcz	bccw,	bwbc
Catterick	fgFbmz	bzbz		bm₀Fe
Tynemouth	bcmbc	bc		cbcmc
St. Abbs Head	cbc	bc		bcm
Leuchars	cwr₀bccbc	bccbc	bcbm₀w	
Renfrew (Abbots I.)	cbzc	cbcc	cbcm₀	bcbbccm₀w
Eskdalemuir	c	cbcc	cbc	bcc
Point of Ayre	cbc	bc	bcbc	bbcc
Tiree	bc	c	c	orrc
Stornoway	c	c	c	cpr
Dalwhinnie	abcc	c		cbcc
Aberdeen	bcbz	bz	bbcz₀	bcz₀w
Wick	cbc	bc	bcb	
Lerwick	c	cbcc	cbcc	cbcc
Blacksod Point	c	rrq	rr	rr
Malin Head	c	c	c	c
Aldergrove	bcc	c	c	cbcc
Birr Castle	c	c	c	c
Valentia Obsy. †	cidc	drrr₀r₀c	cr₀r₀rr	rrr₀r₀
Roches Point	c	c	cir₀	cir₀

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. r₀, 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.*

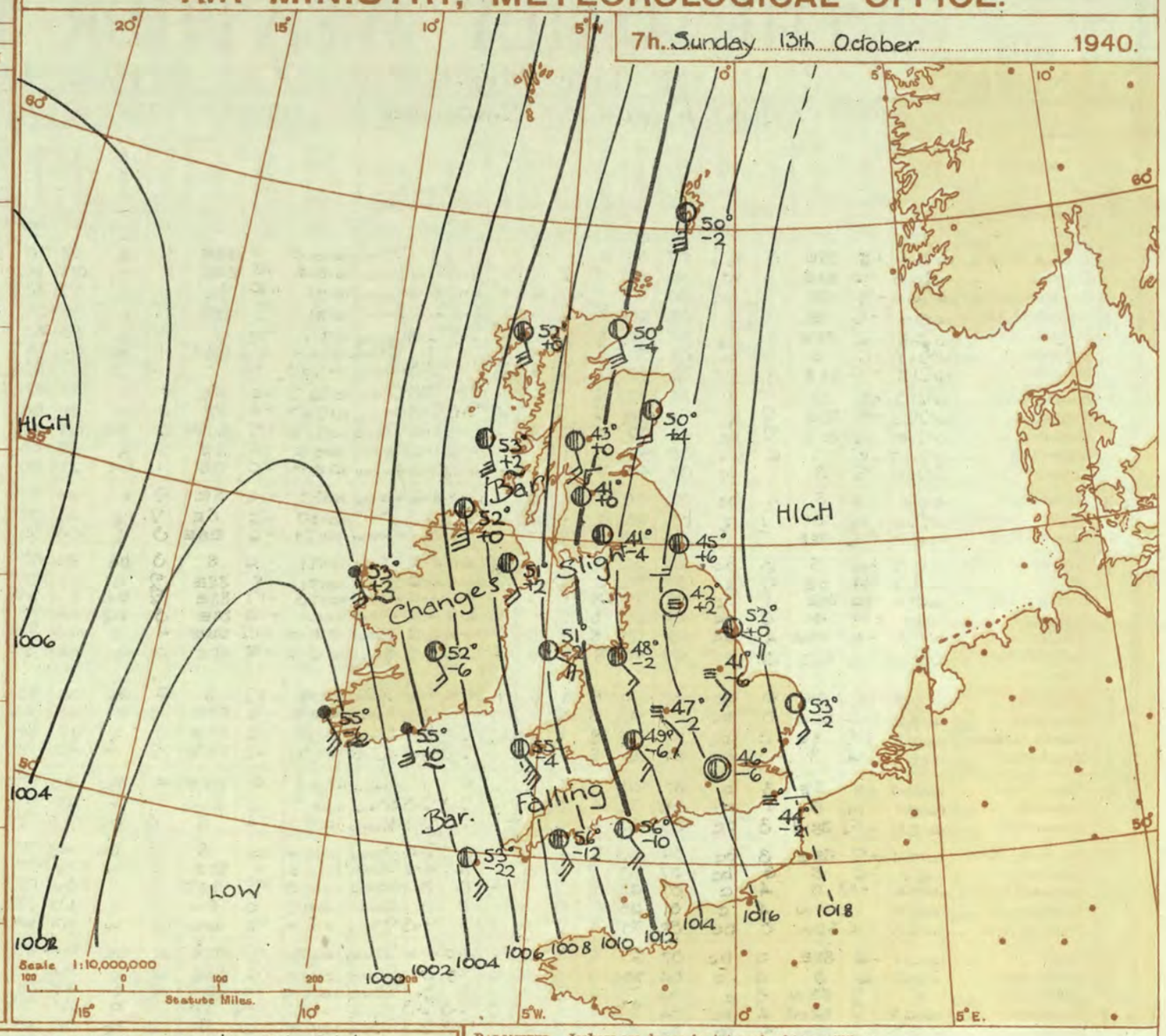
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 13th October 1940.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 24th 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	07	05630	15422		00	05620	47612	00	05530	47600		5-	05662	47504
115	75	01954	18285		77	01804	18215	73	01953	12324		51	02744	14326
203														
206	74	01964	20414					53	01864	10515		04	02790	14227
210	10	01963	16413					04	00890	12302		04	01890	14103
220	53	01954	21505		52	03746	18628					52	22734	18668
230	53	02955	16317		5-	01857	14317	57	02752	14327		57	05674	12327
245	83	01764	16325		5-	02765	16325	50	05571	16301		50	05541	15402
260	86	02870	14165		40	01764	16214	53	05675	00015		58	01761	23117
277	87	02855	15527					57	01863	14825		5-	05647	14527
279								--	05681	16201		--	05668	12228
285	10	01844	20414		5-	02836	16316							
288	10	01761	18245		00	05690	18310	50	08463	22113		50	05533	20118
273	38	01753	14604											
301	20	00763	14403		53	01662	14813	00	05590	12300		53	05545	12218
321	10	05671	20311		00	05690	18211	00	08490	14100		09	46009	16249
299	50	05552	22202		[illegible]			8-	05646	20316		50	05653	18418
292	00	05550	16240		10	08471	14101	53	04490	11114		--	48109	00049
310	--	01633	24313											
316	10	05662	16242		00	08490	14110	00	47390	00000		--	46009	08149
333	10	00862	16552					01	01890	16625				
334														
340					54	01764	14414	5-	05537	14317				
136	20	01764	20214		50	05674	11214	07	05690	12301		00	47190	09211
336	--	01853	16415		--	01852	16413							
350	20	05664	18214									50	05635	10347
368														
379	13	05663	16214					03	08490	14217		--	46109	12249
390	50	05654	14214		50	05653	12213	00	47390	16100		5-	48318	14248
382	53	05664	14214		84	05662	12113	03	04490	01001		5-	08428	10328
438	60	01745	12315									50	01753	16313
430	23	01754	10414					00	05690	00001		50	00851	14313
409	1-	02854	15515		54	02861	14328	57	02841	16528		53	02845	12626

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 13th October
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light to moderate southeast winds, freshening. Fair or fine at first, becoming cloudy later with occasional rain tomorrow. Mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Fresh or strong southeast wind, reaching gale at times on coasts. Cloudy at first, intermittent rain later; mild.
10 N.E. England 11 S.E. Scotland	As 1-3
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Strong to gale southerly winds. Cloudy, intermittent rain later. Mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Strong to gale south to southeast winds, moderating and veering later. Cloudy with intermittent rain at first, showers and bright intervals later. Mild, becoming cooler.

GENERAL INFERENCE.

Pressure is high over Scandinavia and a complex low pressure system extending from Spain to Iceland is spreading slowly eastwards. Weather will be fair or fine in the East at first, but intermittent rain will spread gradually from the Southwest to all districts, reaching Eastern England tomorrow. There will be southerly gales in the West and North.

FURTHER OUTLOOK.

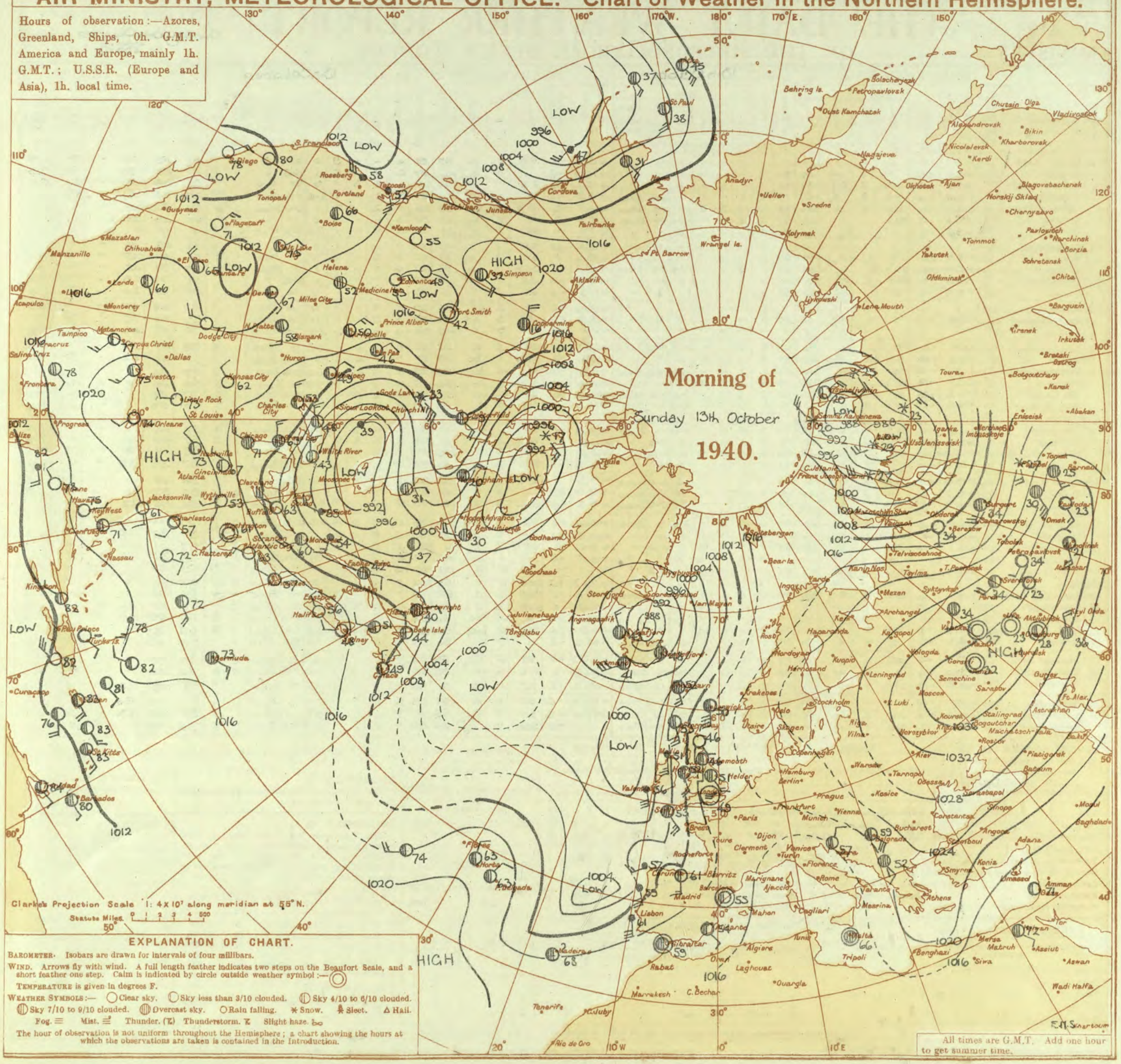
Generally unsettled.

Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 13th October 1940.

No. 28815

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	1018.0	-12	–	0	m	48	97	4	–	–	–	0	0	–
	S. Farnborough	226	1017.5	-12	SE'E	2	bf–	38	92	3	–	3	–	0	Tr	–
	Boscombe Down	417	1016.0	-14	E'S	2	z_0	47	97	6	2	–	1	1	4-6	2500
	Calshot (Sthmtn.)	8	1015.5	-14	SSE	3	bc	55	85	7	1	3	5	1	2-3	3500
	Lympne ...	346	1015.0	-6	SSE	1	c	49	97	7	5	–	–	9+	9+	1200
	Manston ...	154	1019.5	-6	–	0	z_0	41	97	6	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1018.9	-8	S'E	3	z_0	55	85	6	–	–	–	0	0	–
	Gorleston ...	5	1019.3	-10	SE'S	4	c_0	54	85	6	5	–	–	7-8	7-8	2500
	Mildenhall ...	19	1018.6	-8	ESE	2	bf	43	97	3	–	–	–	0	0	–
	Cranwell ...	240	1019.2	-4	SE	1	bf	38	97	3	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1017.6	-10	E	2	bf	44	97	2	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011.7	-20	E	2	c	50	92	8	5	–	–	7-8	7-8	2000
	Bristol ...	209	1015.3	-18	S'E	2	cf	47	97	3	–	–	6	0	9	–
	Portland Bill ...	32	1014.1	-16	SE	4	c	56	85	8	2	–	–	7-8	7-8	4000
	Plymouth ...	82	1012.5	-18	SE'S	4	c	53	76	8	1	5	7	1	10	2000
	The Lizard ...	240	1010.4	-20	SE	5	c	52	86	8	9	–	–	7-8	7-8	1500
	Scilly (St. Mary's)	163	1008.8	-22	SE'S	5	c	53	85	8	8	7	–	4-6	9+	1500
	Guernsey ...	175														
6	Pembroke ...	142	1011.3	-14	SE'S	6	c	55	97	7	8	1	–	4-6	10	2500
7	Holyhead ...	26	1012.2	-14	SE'S	4	c	52	75	8	–	4	2	0	7-8	–
	Chester (Sealand)	16	1015.3	-10	SE	1	bc	42	92	5	–	3	–	0	2-3	–
8	Manchester ...	70	1016.1	-10	E'S	2	m	44	97	4	–	4	–	0	0	–
10	Spurn Head ...	29	1017.9	-2	SE'E	4	c	51	85	7	4	–	–	4-6	4-6	4000
	Catterick ...	175	1018.1	-2	–	0	m	40	97	4	5	–	–	7-8	7-8	6000
	Tynemouth ...	108	1018.9	-2	S	1	m	46	85	4	5	–	–	7-8	7-8	3400
11	St. Abbs Head	280	1016.7	+6	S	2	c	43	85	6	5	6	–	4-6	9	2500
	Leuchars ...	36	1015.6	-4	WNW	2	z_0	43	92	6	–	–	–	0	0	–
12	Renfrew (Abbots I.)	19	1014.1	-10	ESE	3	z_0	46	85	6	–	4	5	0	4-6	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1013.2	-12	S'W	5	bc	53	85	7	–	–	6	0	4-6	–
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1009.1	-6	SSE	6	c	53	75	7	5	1	–	4-6	10	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1012.3	-8	SSE	7	b	51	75	7	–	–	–	0	0	–
16	Lerwick ...	156	1015.3	-6	S	8	c	50	97	7	8	7	–	4-6	7-8	1500
17	Blacksod Point	18	1003.5	-4	SSE	3	r_0r_0	53	92	7	6	–	–	10	10	<150
18	Malin Head ...	84	1007.0	+4	S	5	pr	51	85	7	8	2	–	4-6	9	2500
	Aldergrove ...	268	1010.5	-12	SE'S	3	c	51	75	8	5	7	–	Tr	10	3500
19	Birr Castle ...	173	1007.1	-10	SSW	4	c	53	85	8	8	–	–	7-8	7-8	1500
20	Valentia Obsy.	30	1001.5	-14	SSE	6	rr	56	92	6	6	2	–	9+	10	1500
	Roches Point	22	1005.6	-20	SSE	7	ir_0	55	92	7	6	2	–	7-8	9+	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)	1015.9	-8	E'N	2	m	47	92	4	–	–	5	0	2-3	L	1	*
	Croydon ...	1016.0	-6	–	0	z_0	46	97	6	–	–	6	0	4-6	–	1	*
	S. Farnborough	1015.2	-10	E'S	1	m	45	97	4	5	3	–	9	9+	500	1	*
	Boscombe Down	1013.9	-10	E	2	cf	44	97	6	8	–	1	4-6	7-8	1000	1	*
	Calshot (Sthmtn.)	1014.2	-6	NE'N	5	bc	55	85	7	2	–	2	1	4-6	3000	0	3
	Lympne ...	1017.9	-2	E	2	bg	44	97	8	–	–	1	0	Tr	–	1	*
	Manston ...	1017.6	-4	SSE	2	z_0	47	97	6	5	–	1	2-3	2-3	1200	*	*
2	Shoeburyness ...	1017.0	-10	SE	1	b	49	92	8	–	–	1	0	2-3	–	1	*
	Felixstowe ...	1018.0	0	SE	3	z_0	53	92	6	5	–	5	Tr	1	1000	1	2
	Gorleston ...	1018.2	-2	SE'S	3	b	53	92	6	4	–	–	1	1	2500	1	2
	Mildenhall ...	1017.1	-6	SE	1	bcF	39	97	1	–	–	6	0	4-6	–	1	*
	Cranwell ...	1017.5	-6	SE	3	F	41	97	1	–	–	–	10	10	<150	1	*
3	Birmingham ...	1015.0	-2	SE	2	of	47	97	3	5	–	–	10	10	220	1	*
	Upper Heyford	1015.5	-6	E	3	of	47	97	3	5	–	–	10	10	100	1	*
4	Ross-on-Wye	1013.2	-6	SE	3	c	49	92	6	5	–	6	2-3	7-8	1500	1	*
5	Hartland Point	1008.6	-10	SE	3	c	52	85	8	5	7	–	4-6	9	2500	0	2
	Bristol ...	1012.8	-8	SE'S	1	bc	49	97	7	1	4	2	Tr	4-6	3000	1	*
	Portland Bill ...	1011.3	-10	SE	4	bc	56	92	8	5	4	–	4-6	4-6	4000	1	3
	Plymouth ...	1009.2	-12	SE'S	5	c	56	65	8	7	7	7	7-8	10	2000	0	3
	The Lizard ...	1006.3	-20	SE	6	c	53	85	8	8	6	–	7-8	7-8	2000	0	4
	Scilly (St. Mary's)	1004.3	-22	SE	5	c	53	85	8	8	7	–	4-6	9	1500	1	3
6	Pembroke ...	1008.3	-4	SE	7	cq	55	92	7	8	7	–	4-6	7-8	2000	1	3
7	Holyhead ...	1010.4	-2	SE'E	4	c	51	85	8	5	3	2	2-3	9	5000	1	2
	Chester (Sealand)	1013.6	-2	SE	3	c	48	97	5	5	–	–	10	10	1000	1	*
8	Manchester ...	1014.6	-2	E'S	3	z_0	46	92	5	5	–	6	Tr	4-6	3000	0	*
10	Spurn Head ...	1017.3	0	SE'E	4	bc	52	92	6	–	–	6	0	2-3	–	1	3
	Catterick ...	1016.9	+2	–	0	F	42	97	1	–	–	–	10	10	<150	0	*
	Tynemouth ...	1017.5	+6	SSW	3	z_0	45	85	5	5	–	–	9	9	2000	1	1
11	St. Abbs Head	1015.6	+2	SE	3	bc	43	85	5	5	7	4	2-3	2-3	2500	0	1
	Leuchars ...	1014.9	+4	–	0	z_0	39	92	6	5	4	2	1	4-6	4000	1	*
12	Renfrew (Abbots I.)	1013.6	0	NE'N	2	z_0	41	92	5	5	7	4	1	7-8	3000	1	*
	Eskdalemuir ...	1014.5	-4	–	0	c	41	92	8	5	–	–	9+	9+	1500	1	*
	Point of Ayre...	1012.1	-4	S	5	c	52	97	6	5	4	–	7-8	7-8	1500	0	3
13A	Tiree	1008.3	+2	SSE	5	c	53	92	7	5	–	–	9+	9+	1500	0	4
13B	Stornoway ...	1008.8	0	SSE	6	c	52	75	7	5	1	3	4-6	10	2000	1	3
15	Dalwhinnie ...	1013.3	0	SSE	3	c	43	85	6	5	5	–	4-6	9	1500	0	*
	Aberdeen ...	1015.1	+4	S	4	bc	50	92	6	5	–	9	2-3	2-3	1500	1	2
	Wick ...	1011.9	-4	SSE	6	bcq	50	85	6	5	4	3	2-3	4-6	2500	1	3
16	Lerwick ...	1014.6	-2	S	7	c	50	97	7	8	7	–	7-8	9+	800	1	*
17	Blacksod Point	1002.3	+2	SE	6	r_0r_0	53	92	7	6	–	–	10	10	<150	2	4
18	Malin Head ...	1006.8	0	S'E	5	c	52	85	7	8	–	–	7-8	7-8	2500	0	3
	Aldergrove ...	1009.3	-2	SE	4	c	51	85	7	5	7	–	4-6	9	1800	1	*
19	Birr Castle ...	1005.3	-6	SE	3	c	52	85	8	5	7	–	7-8	9	2500	1	*
20	Valentia Obsy.	999.4	-6	SE	5	r_0r_0	55	92	7	6	2	–	9	10	1500	1	4
	Roches Point	1002.7	-10	SSE	7	ir_0	55	85	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 18h Hrs. (36)
1	London (Kew)	58	43	28	–	Tr	4.9
	Croydon ...	·	45	39		Tr	7.3
	S. Farnborough	60	35	29	*	0.1	6.9
	Boscombe Down	59	43	40	–	0.2	5.1
	Calshot (Sthmtn.)	59	54	50	–	–	6.3
	Lympne ...	60	43	29	0.1	0.1	6.1
	Manston ...	*	*	*	*	*	*
2	Shoeburyness ...	58	48	38	–	–	7.0
	Felixstowe ...	61	51	47	–	–	8.8
	Gorleston ...	57	51	42	–	–	*
	Mildenhall ...	61	39	29	–	Tr	6.5
	Cranwell ...	58	37	30	–	Tr	7.4
3	Birmingham ...	57	44	37	*	–	8.3
	Upper Heyford	59	43	33	–	–	*
4	Ross-on-Wye	58	48	44	–	0.2	2.8
5	Hartland Point	59	47	45	–	–	8.4
	Bristol ...	60	44	39	–	Tr	7.2
	Portland Bill ...	57	54	*	–	–	*
	Plymouth ...	58	53	*	–	Tr	7.6
	The Lizard ...	57	52	*	–	–	7.8
	Scilly (St. Mary's)	57	53	*	–	–	5.4
6	Pembroke ...	57	54	*	–	–	5.2
7	Holyhead ...	57	48	46	–	–	7.8
	Chester (Sealand)	58	41	31	–	–	6.5
8	Manchester ...	57	43	38	–	–	8.5
10	Spurn Head ...	58	48	*	–	Tr	7.4
	Catterick ...	53	37	30	–	Tr	6.9
	Tynemouth ...	56	44	42	–	–	*
11	St. Abbs Head	57	42	*	–	–	*
	Leuchars ...	57	37	29	–	–	4.3
12	Renfrew (Abbots I.)	57	41	34	–	–	3.3
	Eskdalemuir ...	53	35	29	–	–	2.1
	Point of Ayre...	59	51	*	0.2	–	7.4
13A	Tiree	57	50	*	–	2	4.8
13B	Stornoway ...	55	52	*	–	0.2	2.5
15	Dalwhinnie ...	53	41	34	–	–	1.6
	Aberdeen ...	54	49	44	–	–	6.0
	Wick ...	55	49	*		–	*
16	Lerwick ...	53	49	*	–	–	1.9
17	Blacksod Point	59	51	*	3	13	*
18	Malin Head ...	58	48	*	–	0.4	4.3
	Aldergrove ...	58	49	45	–	–	3.0
19	Birr Castle ...	57	51	50	–	–	1.2
20	Valentia Obsy.	57	55	53	6	28	0.0
	Roches Point	58	55	*	Tr	0.4	*

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. (To-day.)
KEW...	18	oFebobzy	bdbccz	bdbffmw	58	43	28	–	Tr	4.9	•	•	6
CROYDON	217	bmbc	cbcm	bmwcm	*	45	39	*	Tr	7.3	•	•	6
GREENWICH (Royal Observatory)...	149	bfm	bcc	cbcdff	59	42	27	–	Tr	6.7	–	92	5
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	60	42	9	Tr			71	90	•
REGENTS PK. (Botanic Gardens)‡...	168	•	•	•									•
CAMDEN SQUARE	110	c	bc	•	61	42	35	–	–	•	•	93	•
KENSINGTON	80	bcmbc	bcc*	•	60	44	33	–	–		69	93	•
HAMPSTEAD OBSERVATORY	450	bc	bc	bom	56	44	37	–	–		•	97	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 13th.

SOUTH KENSINGTON. Max.	Time.	Min.	Time.

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.9	10h 12th	<0.1	3-7h 13th

FOREIGN OBSERVATIONS.

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

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS					
BRUSSELS					
BERLIN					
ZÜRICH					
ROME					

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

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS					
BRUSSELS					
BERLIN					
ZÜRICH					
ROME					

Past 24 Hours.

Stations	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
PARIS				
BRUSSELS				
BERLIN				
ZÜRICH				
ROME	•	•		

‡ 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 ,,	6½ ,,
7	Good ,, ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Preciptious.
4	Rough.	9	Confused.

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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.

BRITISH SECTION

Monday 14th October 1940.

No. 28816

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)...	1012·6	-22	SE'E	4	c	60	55	7	8	-	2	4-6	7-8	2500
	Croydon	1013·0	-22	SE	4	c	55	85	7	7	-	6	4-6	7-8	2500
	S. Farnborough	1011·9	-26	SE'E	3	bc	60	58	7	7	-	6	2-3	4-6	3000
	Boscombe Down	1010·8	-20	SE'E	5	c	57	65	8	1	5	6	4-6	7-8	3000
	Calshot (Soton.)	1011·0	-26	SE'E	6	c	57	75	7	1	5	6	·1	9+	1500
	Lympne ...	1014·6	-18	E	3	bc	55	75	8	-	-	6	0	4-6	-
	Manston ...	1014·2	-26	SE'E	4	bc	57	75	7	-	-	2	0	4-6	-
2	Shoeburyness ...	1014·6	-18	ESE	3	c	57	75	8	-	-	2	0	7-8	-
	Felixstowe ...	1015·6	-18	ESE	4	zo	59	75	6	2	-	6	1	4-6	2000
	Gorleston ...	1017·2	-10	SE'E	4	bc	56	75	6	-	-	1	0	2-3	-
	Mildenhall ...	1014·4	-20	ESE	4	c	58	65	7	2	-	7	4-6	9	3000
	Cranwell ...	1014·9	-18	SE	4	bc	54	85	7	1	-	6	2-3	4-6	2500
3	Birmingham	1012·2	-20	ESE	4	c	53	65	6	7	-	1	4-6	7-8	2500
	Upper Heyford	1012·9	-16	ESE	2	zo	56	65	5	2	-	-	7-8	7-8	1800
4	Ross-on-Wye ...	1010·3	-20	SE'E	4	c	56	65	8	8	-	2	4-6	7-8	4000
5	Hartland Point	1015·9	-10	SE	4	c	55	75	8	8	7	-	4-6	9+	2000
	Bristol	1010·0	-18	ESE	4	c	57	65	8	2	5	6	4-6	9	2800
	Portland Bill ...	1008·8	-20	ESE	5	c	56	92	8	2	4	1	4-6	9	4000
	Plymouth ...	1007·3	-6	SE	5	c	57	75	8	7	7	7	4-6	10	2000
	The Lizard ...	1002·9	-16	SE	7	c	57	85	8	8	6	-	7-8	9+	1500
	Scilly (St. Mary's)	1000·6	-20	SE'E	6	ro ro	53	92	6	6	2	-	7-8	10	800
	Guernsey ...														
6	Pembroke ...	1005·4	-10	SE	7	cq	57	85	7	5	-	7	2-3	9+	3000
7	Holyhead ...	1009·0	-16	SE'E	5	c	58	75	8	8	4	-	4-6	9+	3200
	Chester (Sealand)	1011·7	-16	SE	3	c	55	75	6	7	-	-	4-6	9	2100
8	Manchester ...	1012·8	-16	ESE	4	zo	58	65	6	-	-	7	0	10	-
10	Spurn Head ...	1015·4	-8	E'S	4	bc	55	85	7	-	-	4	0	2-3	-
	Catterick ...	1015·1	-14	-	0	bc/f	50	92	6	5	-	-	4-6	4-6	2500
	Tynemouth ...	1016·4	-6	SSE	3	bc	55	85	6	-	4	1	0	4-6	-
11	St. Abbs Head	1014·9	-6	SE	3	bc	53	85	6	4	4	-	2-3	4-6	2500
	Leuchars ...	1014·7	-2	ESE	2	bc	56	75	7	2	4	4	tr	2-3	3500
12	Renfrew (Abbots I.)	1013·0	-6	SE	4	zo	59	65	6	8	4	4	7-8	9+	3000
	Eskdalemuir ...	1013·2	-6	S	4	bc	55	55	8	7	7	1	2-3	4-6	2500
	Point of Ayre ...	1011·2	-8	SSE	5	c	54	85	7	5	4	6	4-6	7-8	1500
13A	Tiree	1009·0	+2	SSE	5	c	55	85	7	5	..	-	9+	9+	2100
13B	Stornoway ...	1010·2	+6	SSE	5	c	54	75	7	5	7	-	4-6	9+	2500
15	Dalwhinnie ...	1013·6	0	SSE	4	c	51	75	6	8	6	-	4-6	9	2500
	Aberdeen ...	1015·8	+2	S	3	c	53	85	6	5	1	9	4-6	7-8	1500
	Wick	1013·1	+4	SSE	6	bc	53	85	6	-	-	9	0	4-6	-
16	Lerwick... ...	1015·4	+2	S'E	7	c	51	97	7	8	3	8	4-6	9	1500
17	Blacksod Point..	1003·1	0	SE	5	c	55	75	8	4	-	-	9+	9+	1500
18	Malin Head ...	1006·9	0	SSE	5	c	55	75	8	8	-	-	7-8	7-8	5700
	Aldergrove ...	1009·0	-6	SE	5	c	56	75	8	8	7	-	4-6	7-8	2000
19	Birr Castle ...	1004·1	-6	S	3	c	56	65	8	8	1	-	7-8	10	1500
20	Valentia Obsy. †	998·1	-10	ESE	6	iro	54	85	8	5	2	-	9	10	2500
	Roches Point ...	1000·7	-12	SE	7	ir	55	85	7	6	2	-	7-8	9+	1500

OBSERVATIONS at 18h. G.M.T. 13th 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. 13th (37)	Weather 13h.—18h. 13th (38)	Weather 18h. 13th to 1h. 14th (39)	Weather 1h.—7h. 14th (40)
London (Kew)	1011·1	-4	E	4	zo	53	75	5	-	2	8	0	7-8	-	1	*	bccmowbg	bccyemo	cmo	cm w
Croydon	1011·3	-8	SSE	2	zo	51	85	5	-	-	6	0	7-8	-		*	bcmobc		cmocm	cfm
S. Farnborough	1010·6	-2	ESE	3	zo	52	75	6	-	-	6	0	4-6	-	1	*	cmbcy	bcym	bccmo w	cmo
Boscombe Down	1008·9	-6	E	3	zo	51	75	7	-	7	6	0	9	-	0	*	c	cmo	cmo	cmo
Calshot (Soton.)	1009·0	-10	ESE	6	zo	55	75	6	1	-	8	tr	9+	2000	1	4	occ		cm Φ	cmo
Lympne	1012·5	-4	E	3	zo	52	85	6	1	-	8	tr	7-8	1200	1	§	bbc	b	bccmo Φ	cmfcm
Manston	1012·4	-10	E	4	zo	53	85	6	5	-	2	2-3	4-6	2500		*	bccfbc	bcmo	bccmo m	cmo mo
Shoeburyness	1013·2	-4	S	4	c/f	54	85	7	5	-	2	7-8	9	2500	0	*	bc	bc		ccw
Felixstowe	1013·3	-14	E'S	5	zo	55	75	6	4	-	4	9	9+	3000	1	2	bmobcz	bccmo	cmo Φ	cmo
Gorleston	1014·5	-8	E	4	bc	55	85	6	5	5	-	2-3	4-6	2500	0	3	bbc	bc	bcc	c
Mildenhall	1013·0	-2	E	2	bc	51	85	7	-	-	2	0	4-6	-	0	*	Fxebcmoc	cbc	bcbcmcmo	cmo w
Cranwell	1013·3	-2	E'S	3	c	49	85	7	-	-	6	0	9	-	0	*	oFF,bcc	bcc	c cfm	c,efm
Birmingham	1011·1	-4	ESE	3	zo	54	65	6	-	1	6	0	7-8	-	1	*	fobc	bcc	cbc	bcom
Upper Heyford	1011·1	-2	E'S	4	zo	52	75	6	-	9	6	0	7-8	-	1	*	cfbcc	bcc	cmo	cm mom
Ross-on-Wye	1009·1	-6	E	3	c	54	65	6	-	7	8	0	9	-	1	*	bccbc	c	czo	cmom
Hartland Point	1003·8	+2	E	5	c	53	85	8	5	7	-	4-6	9+	2500	0	3	c	c	c	cro ro
Bristol	1008·9	-2	ESE	4	c	53	75	7	-	7	-	0	9+	-	1	*	bcmobcc	c	cmo	cm iro
Portland Bill	1006·7	-8	ESE	6	o	51	92	8	5	-	-	10	10	2500	1	5	bcc	o	o	orr
Plymouth	1004·5	-6	E'S	5	c	56	75	7	7	2	-	2-3	10	1800	0	2	c	c	croroDrDr	croroeiro
The Lizard	1001·9	+2	ESE	7	roro	54	85	7	5	-	-	10	10	1000	1	5	c	cprrr	cprbc	c bcc
Scilly (St. Mary's)	998·5	-6	SE'E	6	roro	53	97	6	6	2	-	9	10	800	1	4	croro	croro	rorocbc	bcc
Guernsey																				
Pembroke	1004·6	-4	SE'E	7	cq	55	97	7	8	1	-	4-6	10	1800	1	4	cq	cq	oirocmoq	9qrrmoc
Holyhead	1007·3	-6	ENE	4	c	54	75	7	-	7	1	0	9+	2700	1	2	c	c ⊕	c	
Chester (Sealand)	1009·9	-6	E'S	3	zo	53	75	6	-	7	-	0	9	-	1	*	cmobcz	bccz	czobcc	
Manchester	1011·2	-6	E'N	3	m	55	75	4	-	7	2	0	9+	-	0	*	bmobcz	cz	bczcz	
Spurn Head	1014·0	-2	E'S	5	bc	53	85	6	4	4	-	2-3	4-6	4000	0	3	bc	c	c	coc
Catterick	1014·1	-4	SE	1	zo	50	92	6	5	-	6	tr	7-8	2500	0	*	oFebcmo	bcmozmo	fge	cmowldo
Tynemouth	1015·6	0	SE	1	bc	53	92	6	-	3	1	0	2-3	-	1	1	cbcm	bc	bcc	o
St. Abbs Head	1014·1	-2	SE	4	c	51	92	6	5	2	-	7-8	10	2000	0	2	bcmo	mor	bcmoc	cmo cq
Leuchars	1014·4	+2	SE	4	zo	51	92	6	-	-	6	0	2-3	-	0	*	bcmoxbc	bcmo w		bccmocw
Renfrew (Abbots I.)	1012·5	+2	ESE	3	zo	53	65	5	5	-	2	4-6	9	3000	1	*	cbcmwcm	cz	bcz cmm	bcmocmow
Eskdalemuir	1013·5	+4	-	0	c	47	75	7	-	-	6	0	9+	-	1	*	cbcy	bcc	cb cmo	bcmoc
Point of Ayre	1010·2	-2	SE'S	5	c	54	85	6	5	-	7	2-3	10	1500	0	3	c	cz	c	c
Tiree	1009·2	+2	SE'S	3	c	54	92	7	5	-	-	9+	9+	2500	0	3	c	c	cbc	bc
Stornoway	1011·3	+6	SSE	3	c	53	85	7	5	5	7	7-8	10	2500	1	2	c	c	c	c
Dalwhinnie	1013·5	0	SE	4	c	49	85	6	4	5	-	4-6	7-8	2500	0	*	cbcc	c	•	cbcc
Aberdeen	1015·9	+4	S'E	3	c	52	97	6	5	-	-	9+	9+	1500	0	2	cbcz	cmo	c,bmo	bmo,c
Wick	1013·7	+6	SSE	6	bc	52	85	6	5	4	1	1	4-6	4000	1	3	cbcm	bcz		bcc
Lerwick	1016·0	+4	S	6	c	50	92	6	5	7	-	4-6	9+	800	1	*	c	c	c	cbc
Blacksod Point	1003·1	0	ESE	3	roro	55	75	7	6	-	-	10	10	<150	1	3	c	rr	rr	rr
Malin Head	1007·3	+6	SSE	4	zo	53	85	6	5	-	-	9+	9+	1500	0	3	c	cczc	z	z
Aldergrove	1008·4	-4	SE'E	4	zo	53	75	6	5	7	-	2-3	10	4000	1	*	ciroc	ccz	czocmo	cmocmo
Birr Castle	1003·1	-2	SSE	3	c	55	75	8	8	7	-	4-6	9	1500	1	*	c	c	c	ciro
Valentia Obsy. †	995·6	-4	E'S	7	dr	54	85	6	6	7	-	9	10	1500	1	4	Rciro		droeidbcc	cprqbc
Roches Point	998·6	-10	SE	7	dr	54	97	5	5	-	-	10	10	450	1	5	cir	rrdr	irc	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. 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.

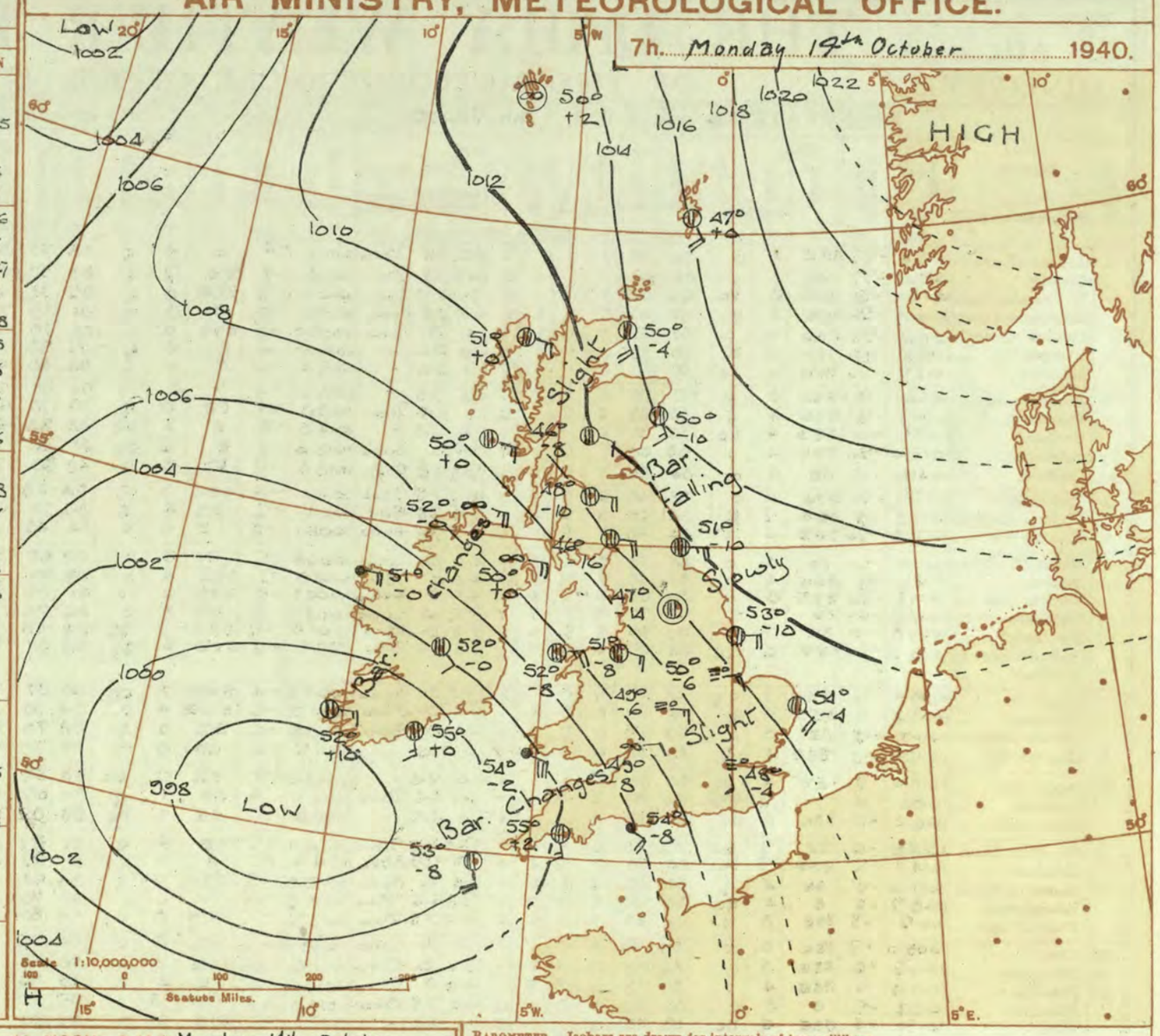
COLUMN 29.—STATE OF GROUND.

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. Monday 14th October 1940.



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.		
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
109 00	05590	45615	00	05590	17501	00	05890	15501	80	01653	14414
115 72	02844	16525	71	01844	12425	73	01863	12325	51	02844	12425
203											
206 87	02862	16525	53	02864	12125	57	05564	00015	57	01764	08115
210 74	02862	14425	54	00761	10312				57	02754	08116
220 52	03738	17628	53	02743	18416				01	01890	09316
230			57	05672	08128	07	05690	08114	57	02754	10317
245 50	05844	16425	5-	05636	15426	2-	01744	12524	5-	02757	08427
260 10	01762	14314	00	01790	12314	47	05662	08214	5-	05666	06216
277 17	05652	11527	07	05590	11428	57	05664	08528	52	02756	08528
279									--	05655	08325
285									5-	03533	12328
288 10	05653	23214	00	05690	08224	50	05553	06215	57	05643	07158
273											
301 10	05662	14423	07	05690	12325	53	05645	00416	53	05665	08426
321 80	05662	12324	00	02620	08327	53	45353	08147	5-	05567	06127
299 00	05690	12400	50	05644	08414				5-	03748	07428
292 8-	05651	16314	00	01690	10213				5-	05657	05127
310											
316 50	05552	12245	07	02690	09316	5-	08448	07328	5-	08448	06328
333 13	02863	14525	17	02761	43627	51	02754	10628	57	02753	12528
334											
340 20	05654	12516	07	02730	10528	51	05664	07418			
136 10	01763	12344	00	05690	07214	5-	05658	06218			
336									--	05543	14527
350 40	02754	10525	00	05690	10328				5-	05538	06448
368											
379 2-	02746	12426	01	05630	08427	07	05590	08427	5-	08438	08428
390 53	05654	09414	00	05690	08316	57	05555	09327			
382 87	02745	10427	07	05690	07324	03	05690	06128	57	05556	06228
438 50	01764	10414									
430 10	01852	12515				57	05554	10227			
409			52	62733	10728	5-	62638	12468	57	02743	14218

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. Monday 14th October
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate southeasterly wind. Cloudy with occasional rain or drizzle spreading from West today, reaching Eastern England by evening. Some bright intervals tomorrow. Local fog night and morning; mild.
5 S.W. England 6 South Wales ...	Light or moderate southerly wind. Bright intervals and occasional showers; 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.	Moderate southeasterly wind fresh locally, mainly cloudy. Occasional rain or drizzle; mild.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate southeasterly wind. Fair at first, becoming cloudy later with rain or drizzle locally. Average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 7-12
19 S. E. Ireland 20 S. W. Ireland	Light southeasterly or variable wind. Bright intervals and local showers. 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.

GENERAL INFERENCE.

A depression off Southwest Ireland is almost stationary and is commencing to fill up, while an associated trough lying over southwestern districts is moving slowly northeastwards. There will be bright intervals with occasional showers in the Southwest. Elsewhere it will be mainly cloudy, with occasional rain or drizzle in the West, spreading slowly to the Midlands and to Southeast England by evening

FURTHER OUTLOOK.

Unsettled and mild.

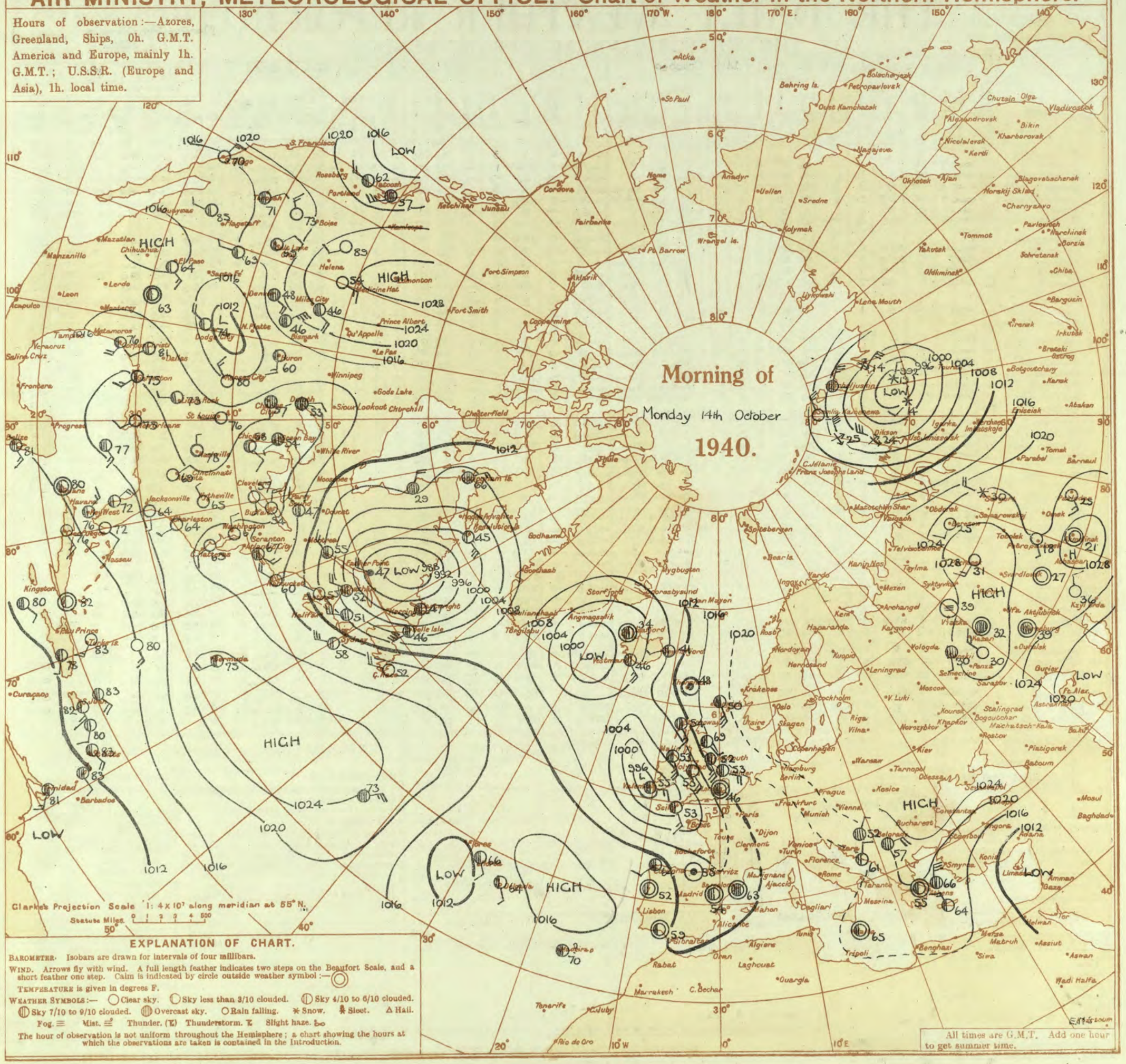
Gale warnings issued at 0915 on 11.10.40 in districts 19; at 1210 on 12.10.40 in districts 17 & 20 and at 0845 on 13.10.40 in districts 5, 6, & 12

Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 14th October 1940.

No. 28816

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	1009.2	-14	-	0		46	97	4	-	7	6	0	9	-
	S. Farnborough	226	1008.5	-14	E	2		48	85	5	-	8	8	0	7-8	-
	Boscombe Down	417	1007.3	-10	ENE	3		48	92	6	5	7	-	9	10	3000
	Calshot (Sthmtn.)	8	1006.9	-16	SE'E	5		57	75	6	5	7	-	4-6	10	4700
	Lympne ...	346	1010.8	-10	E	4		51	92	5	-	2	8	0	10	-
	Manston ...	154	1010.4	-10	ESE	4		52	92	4	5	-	-	8+	9+	1100
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1010.4	-10	SE'E	4		54	85	6	8	-	6	1	9	2500
	Gorleston ...	5	1011.7	-12	SE'E	3		54	85	6	5	-	-	10	10	1700
	Mildenhall ...	19	1010.7	-10	ENE	2		50	92	6	5	-	-	9+	9+	3000
	Cranwell ...	240	1011.9	-8	NE	2		47	92	4	5	-	-	9+	9+	700
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1009.2	-14	E	3		46	97	4	-	3	6	0	9	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1002.5	-12	E	4		54	85	8	5	2	-	7-8	10	1500
	Bristol ...	209	1007.1	-14	ESE	3		51	85	6	5	2	-	2-3	10	3000
	Portland Bill ...	32	1006.1	-20	ESE	5		50	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1002.6	-16	ESE	4		54	92	5	6	2	-	9+	10	1500
	The Lizard ...	240	1001.5	-4	S	3		54	97	8	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	1000.4	+2	S'E	3		53	97	8	8	4	-	2-3	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	1002.6	-12	ESE	7		54	97	6	5	-	-	10	10	1000
7	Holyhead ...	26	1006.4	-6	SE	4		53	85	8	5	7	-	7-8	9+	5500
	Chester (Sealand)	16	1009.5	-10	E'S	3		50	85	6	5	-	-	10	10	2500
8	Manchester ...	70	1010.3	-8	ES	3		51	75	6	5	3	-	7-8	7-8	4000
10	Spurn Head ...	29	1012.2	-20	E	4		53	85	7	5	-	-	9	9	4000
	Catterick ...	175	1013.0	-14	-	0		48	97	5	5	-	8	9	9+	2500
	Tynemouth ...	108	1015.2	-8	SE	5		52	85	7	8	-	-	9+	9+	2800
11	St. Abbs Head	280	1012.7	-8	SE	5		50	85	6	5	2	-	4-6	4-6	2000
	Leuchars ...	36	1014.3	-4	ESE	4		49	92	6	5	-	6	4-6	4-6	800
12	Renfrew (Abbots I.)	19	1012.5	-4	E	4		48	85	6	-	7	-	0	4-6	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1009.9	-2	SE'E	6		53	85	7	5	2	-	4-6	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1012.1	+2	ESE	4		52	85	7	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1015.6	+6	SSE	4		51	92	6	5	7	-	7-8	9+	1500
16	Lerwick ...	156	1018.1	+2	S'E	5		50	85	7	8	7	-	4-6	9	800
17	Blacksod Point	18	1003.1	-8	E	4		52	92	7	6	-	-	10	10	800
18	Malin Head ...	84	1007.1	-4	SSE	5		53	85	6	5	-	-	9	9	1500
	Aldergrove ...	268	1007.8	-10	ESE	5		52	85	6	5	1	-	2-3	10	2000
19	Birr Castle ...	173	1002.6	-2	SSE	4		53	85	8	5	1	-	7-8	9	2500
20	Valentia Obsy.	30	997.1	+10	E	3		55	88	8	8	-	-	9	9	2500
	Roches Point	22	998.7	+2	SSE	5		55	92	7	5	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 14th 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)	1007.1	-6	E	3		50	85	5	5	3	2	9	9+	4000	1	*
Croydon ...	1007.6	-4	SSE	1		48	97	4	5	3	2	2-3	7-8	800	1	*
S. Farnborough	1006.4	-6	E	2		49	97	5	5	2	-	4-6	10	5700	1	*
Boscombe Down	1005.1	-10	E	3		48	97	5	5	-	-	10	10	3500	0	*
Calshot (Sthmtn.)	1005.1	-8	SE'E	5		56	85	6	5	7	-	4-6	10	4000	1	4
Lympne ...	1003.4	-4	E	2		51	97	4	5	7	6	4-6	9+	200	1	2
Manston ...	1003.3	+4	ESE	3		50	97	4	5	7	-	9+	10	450		*
Shoeburyness ...	1009.0	-4	ESE	4		53	92	5	6	-	-	10	10	1500	1	*
Felixstowe ...	1009.7	+4	E	4		53	85	6	5	-	6	9	10	800	1	2
Gorleston ...	1010.3	-4	SE	4		54	85	6	5	-	-	10	10	1500	0	2
Mildenhall ...	1008.8	-4	E	3		48	97	6	5	2	-	9	9+	2700	0	*
Cranwell ...	1009.6	-6	E'N	3		50	97	4	5	-	-	10	10	450	1	*
Birmingham ...	1007.3	-6	E	3		49	92	4	5	-	-	10	10	450	1	*
Upper Heyford	1007.0	-10	E	3		49	97	4	5	-	-	10	10	500	1	*
Ross-on-Wye	1005.3	-8	E'N	2		49	92	5	5	-	-	10	10	800	1	*
Hartland Point	1001.3	0	S	3		53	97	8	5	2	-	7-8	10	1500	1	2
Bristol ...	1004.8	-10	E'S	3		49	92	6	6	2	-	7-8	10	2800	1	*
Portland Bill ...	1003.4	-8	SE	4		54	92	7	5	-	-	10	10	1500	1	4
Plymouth ...	1002.9	+2	SSE	3		55	85	8	8	1	-	9+	10	500	1	2
The Lizard ...	1001.1	-2	SSE	3		54	92	8	8	4	-	7-8	7-8	2000	1	2
Scilly (St. Mary's)	999.0	-8	SSE	4		53	85	8	8	4	6	4-6	9	1500	1	3
Pembroke ...	1000.8	-2	SE'E	6		54	97	6	8	-	-	9+	9+	600	1	3
Holyhead ...	1004.3	-8	E'N	5		52	85	6	5	7	-	9+	9+	3600	1	3
Chester (Sealand)	1007.0	-6	ESE	3		50	85	6	5	-	-	9	9	4000	1	*
Manchester ...	1008.1	-8	E	2		51	85	4	5	7	-	7-8	9+	2000	0	*
Spurn Head ...	1009.1	-10	E	4		53	92	6	5	-	-	9+	9+	1500	0	3
Catterick ...	1010.1	-14	-	0		47	97	5	5	-	-	9+	9+	2000	0	*
Tynemouth ...	1012.3	-10	E	3		51	92	7	6	-	-	10	10	2000	1	3
St. Abbs Head	1011.7	-10	SE	5		50	85	8	5	2	-	7-8	9	2500	0	3
Leuchars ...	1012.6	-10	E	3		51	85	7	5	-	6	7-8	9	2800	0	*
Renfrew (Abbots I.)	1010.8	-10	E	4		48	85	7	5	7	-	4-6	9+	2000	1	*
Eskdalemuir ...	1010.3	-16	E'S	4		46	85	7	5	-	-	10	10	800	1	*
Point of Ayre ...	1007.1	-6	SE'E	6		53	85	8	5	-	-	9+	9+	2500	0	4
Tiree ...	1009.2	0	SE'E	3		50	85	8	5	-	-	7-8	7-8	2500	0	3
Stornoway ...	1011.6	0	ESE	3		51	75	7	5	7	-	4-6	9+	2500	1	2
Dalwhinnie ...	1012.0	-8	ESE	2		46	75	7	5	5	-	4-6	9+	4000	0	*
Aberdeen ...	1013.3	-10	SE'S	3		50	92	7	8	-	-	9+	9+	1500	0	2
Wick ...	1014.1	-4	SSE	4		50	85	8	4	7	2	2-3	9	1500	1	2
Lerwick ...	1017.7	0	SE'S	4		47	85	8	5	7	-	4-6	4-6	1500	1	*
Blacksod Point	1002.5	0	E	4		51	92	7	6	-	-	10	10	800	2	3
Malin Head ...	1006.4	0	ESE	5		52	85	6	8	-	-	7-8	7-8	2500	0	3
Aldergrove ...	1006.7	0	E'S	4		50	85	6	5	7	-	1	9+	2000	1	*
Birr Castle ...	1002.0	0	SE	2		52	92	8	6	1	-	7-8	10	1500	1	*
Valentia Obsy.	998.8	+10	E	3		52	85	9	5	-	-	2-3	2-3	2500	1	2
Roches Point	999.0	0	SSE	3		53	92	8	5	-	5	4-6	7-8	1500	1	4

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 13th Hrs. (36)
London (Kew)	60	50	44	-	-	8.0
Croydon ...		45	43		-	9.2
S. Farnborough	60	47		-	-	
Boscombe Down	59	46	44	-	Tr	4.7
Calshot (Sthmtn.)	57	54	52	-	-	5.2
Lympne ...	57	48	40	-	Tr	8.8
Manston ...						
Shoeburyness ...	57	52	48	-	-	8.7
Felixstowe ...	60	52	47	-	-	8.5
Gorleston ...	56	53	50	-	-	7.1
Mildenhall ...	61	45	36	Tr	Tr	5.9
Cranwell ...	60	46	43	-	Tr	2.4
Birmingham ...	57	47	43	*	-	3.0
Upper Heyford	60	45	40	-	-	*
Ross-on-Wye	59	48	44	-	-	4.0
Hartland Point	57	52	51	-	3	0.3
Bristol ...	59	48	46	-	Tr	5.2
Portland Bill ...	57	49	*	-	0.2	*
Plymouth ...	58	53		-	8	1.9
The Lizard ...	57	52	*	0.5	7	0.3
Scilly (St. Mary's)	55	53	*	1	0.4	0.0
Pembroke ...	58	52	*	-	4	0.0
Holyhead ...	58	50	47	-	-	1.3
Chester (Sealand)	57	50	48	-	-	1.8
Manchester ...	58	48	47	-	-	5.9
Spurn Head ...	56	52	*	-	-	7.2
Catterick ...	57	37	33	-	Tr	2.3
Tynemouth ...	55	50	46	-	-	
St. Abbs Head	54	49	*	-	-	*
Leuchars ...	57	48	43	-	-	6.1
Renfrew (Abbots I.)	60	45	37	-	-	4.6
Eskdalemuir ...	56	41	37	-	-	5.5
Point of Ayre ...	56	51	*	-	-	2.8
Tiree ...	55	50	*	-	-	0.1
Stornoway ...	54	51	*	-	-	0.1
Dalwhinnie ...	51	44	36	-	-	2.8
Aberdeen ...	54	49	45	-	-	1.2
Wick ...	55	49	*	-	Tr	*
Lerwick ...	53	47	*	-	-	2.1
Blacksod Point	55	50	*	Tr	7	*
Malin Head ...	57	48	*	-	-	0.2
Aldergrove ...	56	50	47	Tr	-	0.4
Birr Castle ...	56	51	50	-	Tr	0.0
Valentia Obsy.	55	51	46	6	0.6	0.0
Roches Point		53	*	7	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	bcengW	bccycm	cm	60	50	44	-	-	8.0	*	*	4
Croydon ...	217	bcm bc		cmgfm		45	43		-	9.2	*	*	5
Greenwich (Royal Observatory) ...	149												
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	61	50	44	-	-		78	92	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	62	49	44	-	-		77	93	*
Camden Square ...	110	c	bc	*	62	50	41	-	-	*	*	90	*
Kensington ...	80	bc	bcz	*	62	50	46	-	-		75	93	*
Hampstead Observatory ...	450		*								*		*

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.
0.2	11h. 13th	<0.1	0-1 14th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 13th October Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 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.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...											*	*		

‡ 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.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

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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

Tuesday 15th. October 1940.

No. 28817

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)...	1006.2	-6	ESE	3	id	54	85	4	5	-	-	10	10	1500
	Croydon ...	1006.2	-6	ESE	2	dd$_o$	53	92	5	5	2	-	7-8	10	900
	S. Farnborough	1005.6	-10	SE	3	ir	53	97	5	6	2	-	7-8	10	900
	Boscombe Down	1004.7	0	SSE	3	c	55	85	8	5	7	-	7-8	9	600
	Calshot (Soton.)	1005.4	+2	SSW	3	c/r	58	85	8	3	3	-	4-6	7-8	1800
	Lympne ...	1008.4	-4	ESE	3	ir$_o$	52	92	6	5	-	-	10	10	700
	Manston ...	1007.8	-6	SE	4	z$_o$	52	92	5	5	-	-	10	10	400
2	Shoeburyness ...	1008.2	-10	SE	3	c	52	92	5	5	-	-	10	10	1500
	Felixstowe ...	1008.5	-8	SE	4	z$_o$	55	85	6	5	-	-	9	9	800
	Gorleston ...	1009.2	-8	SE	3	c	54	85	6	5	-	-	10	10	1500
	Mildenhall ...	1007.4	-8	SE'E	4	z$_o$	55	85	6	5	1	-	9+	10	1800
	Cranwell ...	1008.0	-10	ESE	5	z$_o$	56	75	6	5	-	-	9+	9+	1800
3	Birmingham	1005.0	-14	ESE	3	ir$_o$	53	85	4	6	-	-	10	10	450
	Upper Heyford	1005.8	-8	ESE	3	ir$_o$	52	92	4	5	2	-	7-8	10	800
4	Ross-on-Wye ...	1004.1	-6	SE'S	3	c	53	85	7	5	7	-	4-6	6	2500
5	Hartland Point	1000.7	-8	SSE	4	bc	58	65	8	7	-	-	4-6	4-6	1500
	Bristol ...	1004.2	+2	SE	2	c/d	54	85	7	1	7	-	Tr	9+	2000
	Portland Bill ...	1003.8	-12	S	4	bc	58	92	8	5	-	-	4-6	4-6	4000
	Plymouth ...	1001.9	-2	S'E	4	c	58	75	8	2	7	5	4-6	7-8	2500
	The Lizard ...	999.4	-20	SSE	7	c/pr	54	85	8	5	2	-	9	10	1500
	Scilly (St. Mary's)	995.1	-34	SE'E	6	ir	52	97	7	6	2	-	9	10	800
	Guernsey ...														
6	Pembroke ...	1000.5	-6	ESE	5	c	56	92	7	8	7	-	7-8	9+	1000
7	Holyhead ...	1002.2	-14	E	6	r$_o$r$_o$	53	92	6	5	2	-	7-8	10	1700
	Chester (Sealand)	1004.5	-18	ESE	4	z$_o$	57	75	6	5	-	-	10	10	2000
8	Manchester ...	1005.4	-20	E	4	z$_o$	56	75	5	5	7	8	2-3	4-6	3200
10	Spurn Head ...	1008.0	-8	E	4	c	53	92	7	5	-	-	9+	9+	2500
	Catterick ...	1008.0	-18	SE'E	2	c	55	75	7	5	7	-	7-8	10	1500
	Tynemouth ...	1010.8	-10	E	4	c	52	92	6	8	-	-	9+	9+	800
11	St. Abbs Head	1009.8	-14	ESE	3	c	51	92	8	5	2	-	7-8	10	2500
	Leuchars ...	1009.9	-16	ENE	3	c	54	85	7	8	-	-	10	10	2500
12	Renfrew (Abbots I.)	1008.5	-14	ENE	4	c	54	75	7	5	7	-	9	9+	2400
	Eskdalemuir ...	1007.6	-16	ESE	4	c	53	75	7	5	-	-	9	9	1500
	Point of Ayre ...	1004.5	-22	SE	6	c	58	85	7	5	4	9	1	7-8	2500
13A	Tiree ...	1007.5	-4	SE'E	3	c	53	85	8	5	-	-	9+	9+	2800
13B	Stornoway ...	1010.1	-6	ESE	3	c	53	75	7	5	7	5	Tr	9+	3000
15	Dalwhinnie ...	*	-12	ESE	2	c	49	75	8	8	1	-	4-6	10	2500
	Aberdeen ...	1010.7	-16	NE	1	ir$_o$	50	92	6	5	-	-	10	10	1500
	Wick ...	1011.7	-18	ENE	3	c	50	92	7	5	2	-	7-8	10	1500
16	Lerwick...	1015.1	-20	E'S	4	c/r	50	92	7	6	2	-	4-6	10	800
17	Blacksod Point..	1002.1	-6	E'S	3	c	53	92	7	6	-	-	10	10	<150
18	Malin Head ...	1004.8	-10	E	4	c	54	75	8	8	-	-	7-8	7-8	5700
	Aldergrove ...	1004.8	-14	ESE	3	z$_o$	54	75	6	5	7	-	7-8	10	1800
19	Birr Castle ...	1001.1	-6	SE	2	ir$_o$	52	97	7	6	1	-	4-6	10	1500
20	Valentia Obsy. †	999.0	-6	NE'N	2	c	57	75	8	5	7	-	2-3	9+	4000
	Roches Point ...	998.3	-12	SE'E	3	ir	56	92	7	6	2	-	7-8	9+	1500

OBSERVATIONS at 18h. G.M.T. 14th. 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)	1007.6	+12	SSE	2	z$_o$	52	85	5	8	-	1	2-3	2-3	2500	1	*
Croydon	1007.5	+12	S	1	z$_o$	52	92	6	-	4	1	0	2-3	-	1	*
S. Farnborough	1007.3	+14	SSE	2	z$_o$	53	92	6	8	-	-	2-3	2-3	2500	1	*
Boscombe Down	1005.7	+12	SE'E	4	z$_o$	50	92	7	3	4	-	1	2-3	3000	1	*
Calshot (Soton.)	1006.0	+6	SSE	4	b	56	92	7	8	3	-	Tr	Tr	2500	1	2
Lympne	1009.7	+14	S	1	bc	52	92	7	2	6	1	Tr	4-6	2500	1	§
Manston	1009.3	+12	SSE	2	bc	53	92	7	2	3	1	2-3	4-6	2000		*
Shoeburyness	1008.9	+12	S'E	2	c	54	92	8	4	7	-	2-3	7-8	2500	0	*
Felixstowe	1008.9	+6	S'W	4	z$_o$	55	85	6	8	7	-	2-3	9	3000	1	2
Gorleston	1009.4	+6	S'E	4	c	53	92	6	5	-	-	10	10	1000	0	3
Mildenhall	1007.8	+8	SE'E	2	m	52	92	4	5	-	-	10	10	1200	0	*
Cranwell	1007.5	+2	SE	4	z$_o$	53	85	6	5	7	-	7-8	10	1200	0	*
Birmingham	1006.4	+4	ESE	2	m	49	92	4	5	7	-	4-6	4-6	2500	1	*
Upper Heyford	1006.7	+6	E	2	z$_o$	50	92	6	2	6	-	4-6	4-6	1900	1	*
Ross-on-Wye	1004.4	+4	SE	3	bc	53	85	7	3	-	3	2-3	2-3	2500	1	*
Hartland Point	999.4	-8	SSE	4	cjp	53	85	8	8	6	-	4-6	7-8	1500	1	3
Bristol	1004.5	+4	SE	3	bc	53	85	7	8	-	3	2-3	2-3	3500	1	*
Portland Bill	1003.8	-16	SSE	4	c	58	92	8	5	-	-	10	10	4000	1	4
Plymouth	1000.3	-6	SSE	6	c	57	75	8	5	-	-	10	10	2000	0	4
The Lizard	997.4	-16	SSE	7	c/pr	54	97	7	8	2	-	7-8	9	1500	1	5
Scilly (St. Mary's)	991.8	-14	SE'S	6	ir	54	97	6	5	-	-	10	10	800	1	4
Guernsey																
Pembroke	999.3	-6	ESE	5	c/r	55	85	7	8	-	-	9+	9+	1000	1	3
Holyhead	1002.0	+2	E	3	bc	54	85	7	-	4	-	0	2-3	-	1	2
Chester (Sealand)	1004.8	+10	SE	3	z$_o$	51	92	8	5	-	2	4-6	4-6	3000	1	*
Manchester	1005.3	+2	ESE	3	z$_o$	55	85	8	5	7	-	7-8	9+	3000	0	*
Spurn Head	1007.0	0	E'S	4	c	53	92	6	5	-	-	9+	9+	2500	0	3
Catterick	1007.6	0	—	0	z$_o$	52	92	6	5	-	-	10	10	4000	0	
Tynemouth	1010.5	-2	SE	4	o/d	52	92	6	-	2	-	10	10	800	1	3
St. Abbs Head	1008.3	-8	ESE	3	c	51	85	8	5	2	-	7-8	9	2500	0	2
Leuchars	1009.1	+2	E	2	c	52	92	7	5	-	-	10	10	2200	0	*
Renfrew (Abbots I.)	1007.2	-2	ENE	3	z$_o$	52	85	5	5	7	-	7-8	9	3000	1	*
Eskdalemuir	1007.7	+4	ESE	4	c	49	85	7	5	7	-	4-6	10	4000	1	*
Point of Ayre	1004.1	0	SE	5	ir$_o$	56	85	7	5	2	-	9	10	1500	0	4
Tiree	1006.0	0	E'S	1	bc	51	92	8	5	-	-	4-6	4-6	2800	0	2
Stornoway	1009.1	-2	ESE	3	c	52	85	8	5	-	-	9	9	3000	1	2
Dalwhinnie	1009.5	-2	SE	2	bc	45	85	7	8	-	-	4-6	4-6	2500	0	*
Aberdeen	1009.8	+2	ESE	1	o	50	97	8	5	-	-	10	10	800	1	2
Wick	1009.2	-4	SSE	1	c	51	97	7	5	2	-	7-8	10	800		
Lerwick	1013.2	-6	ESE	5	c/r	51	92	7	8	2	-	7-8	10	800	1	*
Blacksod Point	1001.0	-2	E	4	RR	51	97	6	6	-	-	10	10	<150	2	3
Malin Head	1004.0	0	E'S	4	z$_o$	55	85	6	8	7	-	4-6	9+	1500	0	3
Aldergrove	1003.4	-2	E	4	ir	54	75	6	5	-	-	9+	10	1500	1	*
Birr Castle	1000.8	+4	ESE	1	c	51	92	8	5	1	-	7-8	10	2500	1	*
Valentia Obsy. †	998.8	+2	ENE	3	bc	54	85	8	8	3	-	4-6	4-6	2500	1	2
Roches Point	997.1	-8	E'N	3	ir	54	85	7	6	2	-	7-8	9	1500	1	4

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 14th. (37)	13h.—18h. 14th. (38)	18h. 14th. to 1h. 15th. (39)	1h.—7h. 15th. (40)
London (Kew)	cmir$_o$dm	cd$_o$cidcbc	bcbw	bwbcpr$_o$
Croydon	r	cd$_o$bm$_o$	bmbc	bcr$_o$r
S. Farnborough	r	cRdbm$_o$	bcbmbcw	Rir$_o$m$_o$
Boscombe Down	crrm$_o$	cprbc	bcr$_o$r$_o$	cr$_o$r$_o$bc
Calshot (Soton.)	ciRrrm$_o$	bcb	bPRm$_o$b	rrcprm$_o$
Lympne	bcm$_o$	bcm$_o$ir$_o$pr	bcm$_o$bw	
Manston	cmm$_o$	cm$_o$id$_o$c	bm$_o$wbcm$_o$	bcm$_o$bbc
Shoeburyness	cm$_o$bcm$_o$	m$_o$id$_o$c	cbcbw	bw
Felixstowe	om$_o$cm$_o$	p$_o$ir$_o$cm$_o$	cm$_o$cbcm$_o$	bcm$_o$wb
Gorleston	c	c	cbcz$_o$w	bcz$_o$w
Mildenhall	cm$_o$wcm$_o$	cir$_o$m$_o$cm	cmcbm$_o$	bm$_o$bw
Cranwell	cmm$_o$z$_o$	czom$_o$	cm$_o$f	pF$_o$bm$_o$c
Birmingham	omr$_o$	or$_o$rbc	b	b$_o$ir$_o$
Upper Heyford	rr	crmbcm$_o$	bcbmb	bmccr$_o$c
Ross-on-Wye	pd$_o$m$_o$rr	cbc	bccpr$_o$cr	rq$_o$rbc
Hartland Point	cr$_o$r$_o$	bccr$_o$	crbcp	cpbc
Bristol	cirr$_o$Rdd$_o$	pr	cprr$_o$r$_o$	bcpr
Portland Bill	bcpr	bcc	c	oR
Plymouth	ccprbc	bcpr$_o$cir$_o$	c$_o$r$_o$rcqrt	cpr$_o$cbc
The Lizard	bcprc	cprc	prcbc	bc
Scilly (St. Mary's)	bccir	cir	rbccp	cbcc
Guernsey				
Pembroke	rrm$_o$c	cqrrm$_o$c	cir$_o$qo	r$_o$qc
Holyhead	cqr$_o$r	or$_o$bc	c	cir$_o$r
Chester (Sealand)	cm$_o$	cm$_o$idirbcm$_o$	cmcm$_o$	bcm$_o$
Manchester	cm$_o$cz$_o$	cz$_o$ir$_o$	bz$_o$bcz$_o$	bcm$_o$
Spurn Head	c	c	cbc	bc
Catterick	cm$_o$c	ccm$_o$	ir$_o$cm$_o$	ir$_o$om$_o$dd
Tynemouth	oc	coid	oidir$_o$	oc
St. Abbs Head	cq$_o$c	c	om$_o$mr	rm$_o$c
Leuchars	c	c	cdrcir$_o$m	or$_o$ir$_o$cm
Renfrew (Abbots I.)	cm$_o$id$_o$c	c	cm$_o$ir$_o$	cir$_o$ir$_o$bm$_o$w
Eskdalemuir	gd$_o$dc	c	cz$_o$	cir$_o$
Point of Ayre	c	c	bc	bcrr
Tiree	c	cbc	cbc	bc
Stornoway	c	c	cbc	c
Dalwhinnie	co	cbc	*.	cir$_o$o
Aberdeen	ccir$_o$	dom	oir$_o$o	cir$_o$c
Wick	c	cid$_o$c	cid$_o$c	cm$_o$
Lerwick	cir$_o$	cir$_o$	cir$_o$	odfmd$_o$
Blacksod Point	ir	rr	bc	pr$_o$c
Malin Head	cz$_o$c	c	czzc	z
Aldergrove	c	cirz$_o$	irrrm$_o$	cr$_o$r$_o$m$_o$c
Birr Castle	cir$_o$	r$_o$r$_o$c	cpr	cpr
Valentia Obsy. †	bccvc	cbc	bcpr$_o$bw	bcwcir$_o$
Roches Point	cir	bccir	irrir	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 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.

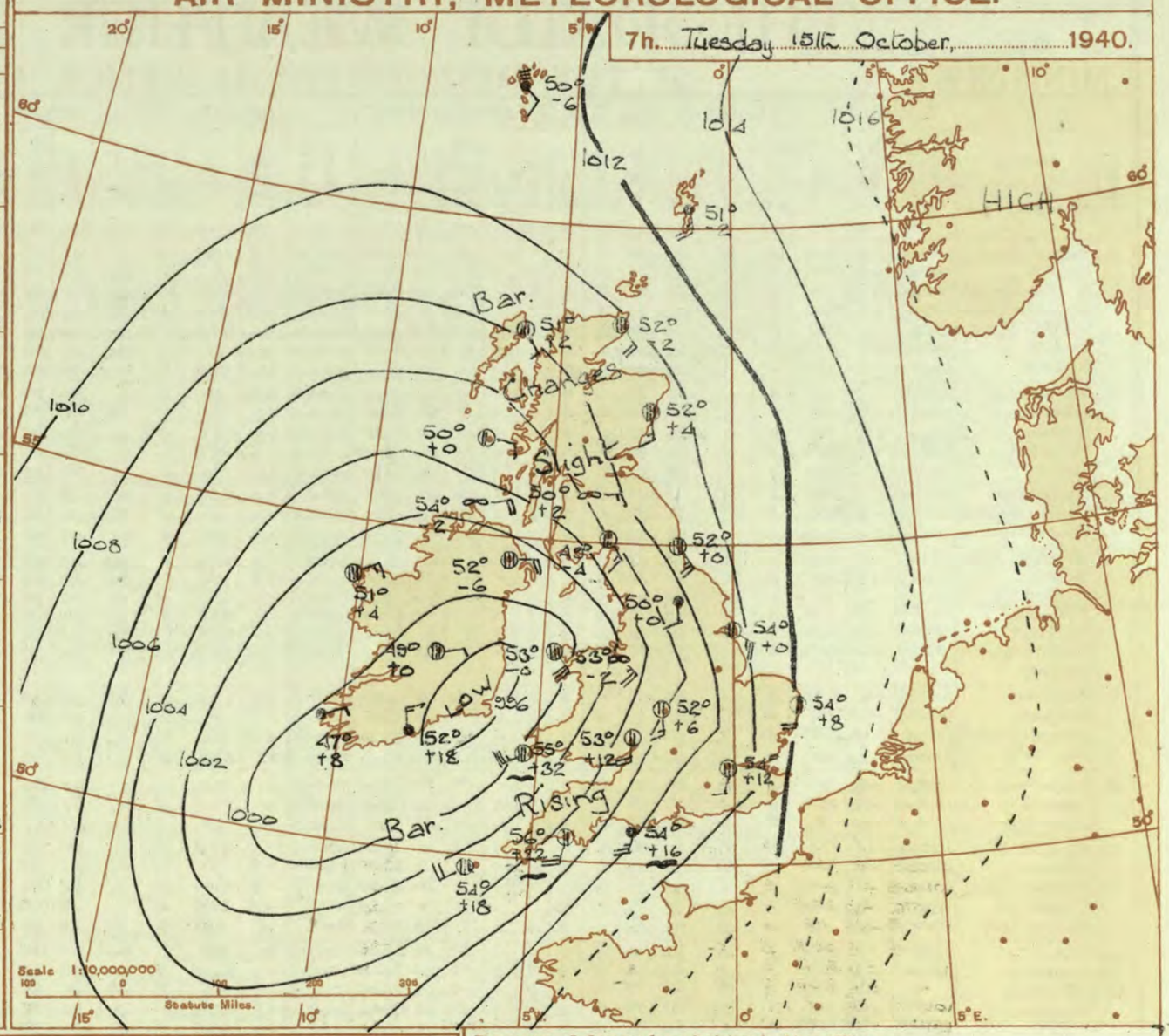
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 14th. Oct. 18h. G.M.T.						01h. G.M.T. 15th. Oct. 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
109 52	02626	09428	--	48309	09459	57	02744	11445	5-	02635	12255
115 73	02854	12526	52	02854	12426	52	02753	12227	52	02854	12425
203											
206 77	02964	09225	57	02856	10328	53	01863	00024	52	02857	10228
210			52	02755	08358	5-	02756	08156			
220 52	02863	16418							52	02864	08127
230 57	02863	08225	07	02830	06216	57	81765	08128			
245 5-	51748	06358	53	02754	10255	5-	05638	10458	5-	05537	12467
260 67	05644	08227	53	05555	08228	5-	22648	08268	53	05654	08224
277 77	02853	10427	07	02790	08428	5-	05646	00464	52	05648	07528
279			--	05654	08315				--	05645	08615
285 3-	03638	10528	5-	03638	08528				--	57127	12549
288 8-	61648	09368	5-	05548	05268	5-	05644	12264	84	01734	10424
273 86	21653	06356							46	62434	05158
301 07	05630	10425	57	22587	10468	03	05630	09315	53	22644	11465
321 33	02754	10327							57	05654	14415
299 52	21644	18354	5-	05648	08328	5-	05538	18358	00	03654	12514
292 70	02758	10228	5-	05566	10226	5-	03145	10268	52	61634	09348
310			--	67109	08449				--	57209	16549
316 5-	05656	06326	52	2444	10168						
333 52	64655	09468	03	01790	08313	53	63864	08625	53	68736	48767
334											
340 53	05645	09517	53	05563	11364	03	05590	41502	63	22835	47567
136 3-	05638	10358	5-	51528	12368	00	05690	11360			
336 --	64533	14468	--	05642	14418				--	25742	16588
350 57	22646	10428	00	08490	12364				54	02736	12367
368											
379 62	62526	08368	20	05664	08314	53	05644	14414	9-	05646	16326
390 3-	03635	10428	53	47343	14164						
382 52	62507	11268	8-	05654	10214	53	01753	11303	76	81644	13385
438 5-	51728	24558							83	02744	22515
430 5-	22747	16267	83	01743	14413	03	00890	16301	5-	25745	14386
409 2-	02746	14516				53	22736	18667	54	01844	18414

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. October 15th 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate or fresh south-southwest wind falling light and backing southeast later. Local showers at first, becoming fair or fine. Local fog in morning. Average temperature.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Fresh or strong southwest wind moderating and backing southeast later. Bright intervals and showers, mainly fair later; average temperature.
10 N.E. England	As 1 - 4.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Fresh southeast wind veering south or south-southwest, mainly cloudy; occasional rain; bright intervals locally later, average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind north backing west or southwest, mainly light or moderate; cloudy; occasional rain, bright intervals locally later rather cool.

GENERAL INFERENCE.

A depression over southeast Ireland is moving slowly north and filling up and another depression near Madeira is likely to turn north-northeast. Conditions remain unsettled but a fair interval is expected over a considerable area in the South and East.

FURTHER OUTLOOK.

Rain probably spreading from south-southwest but fair till Wednesday evening in many districts.

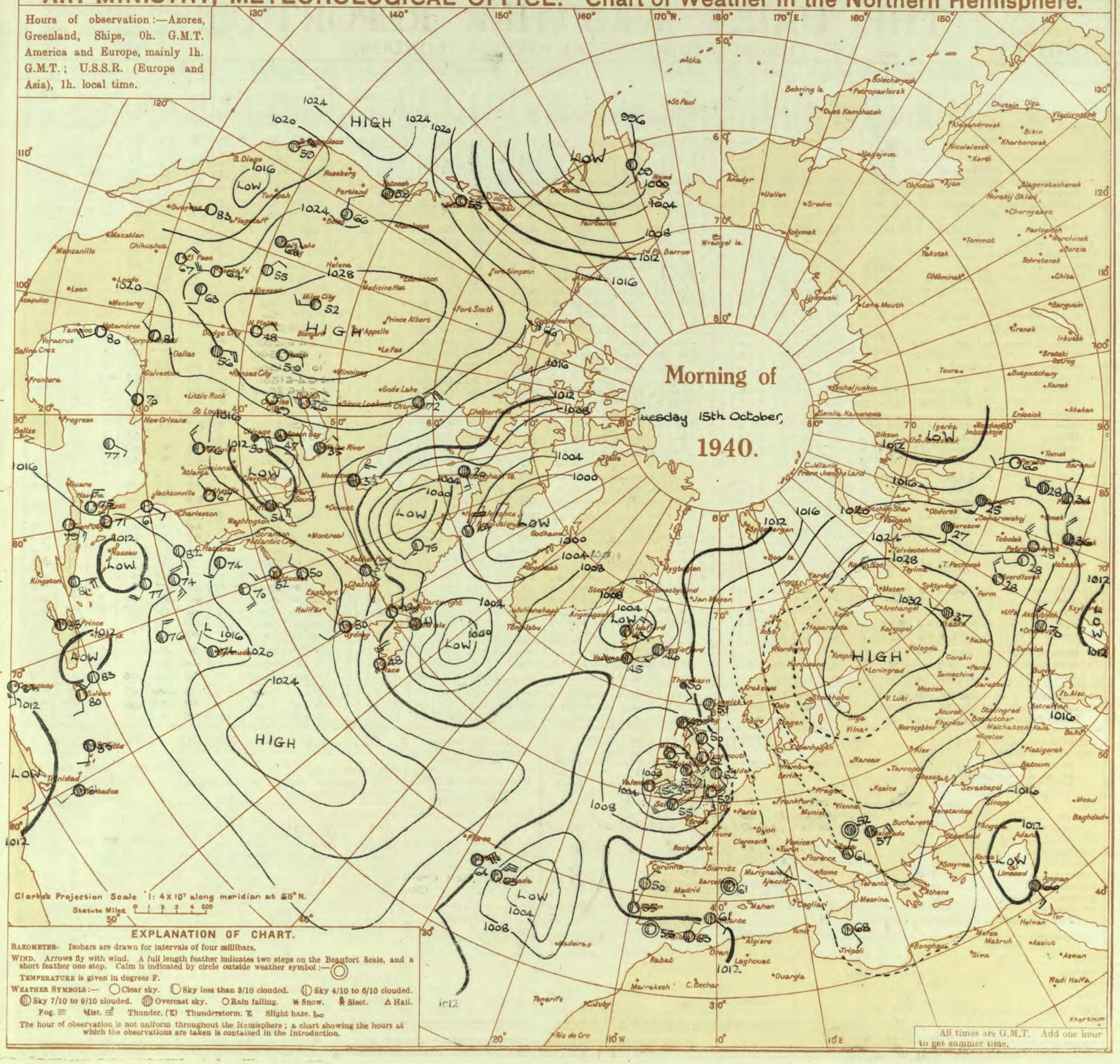
Forecasts issued at 10.30 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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.



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 15th October 1940.

No. 28817

OBSERVATIONS at 1 hr. G.M.T. 15th 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)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1008·5	+2	S	1	b	52	92	7	5	-	-	1	1	1500
	S. Farnborough	226	1007·6	0	SSE	2	bc	51	83	7	5	-	-	2-3	2-3	2000
	Boscombe Down	417	1005·3	-6	SE'S	5	rr	53	92	5	6	-	-	9+	9+	1000
	Calshot (Sthmtn.)	8	1006·7	0	S	6	c	57	85	7	5	3	-	2-3	9+	4500
	Lympne	346	1011·1	+6	S	2	b	53	92	7	-	3	4	0	1	-
	Manston	154	1010·9	+2	SSW	3	z	52	92	6	-	-	4	0	2-3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1010·2	+2	S'E	4	z	56	85	6	-	-	2	0	2-3	-
	Gorleston	5	1011·4	0	SSE	3	bc	55	97	5	5	3	-	4-6	4-6	800
	Mildenhall	19	1009·2	0	SE	2	z	48	97	5	-	-	2	0	Tr	-
	Cranwell	240	1008·8	0	SE	3	f	45	97	2	-	-	-	10	10	<150
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1006·8	-2	E	3	z	48	97	6	-	4	1	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	996·5	-14	S	5	c/pr	54	97	7	8	-	-	9+	9+	1500
	Bristol	209	1003·5	-8	SE	3	rr	53	97	6	8	-	-	9+	9+	1200
	Portland Bill	32	1004·3	+4	SE	5	c	56	92	8	5	-	-	10	10	4000
	Plymouth	82	1000·2	0	SW	8	c/r	55	97	6	7	7	-	4-6	10	1800
	The Lizard	240	999·8	+36	SW'S	7	bc	54	92	7	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	997·6	+30	WSW	7	c/pr	55	85	7	9	6	-	7-8	9+	1500
	Guernsey	175														
6	Pembroke	142	993·2	-24	SE	7	ir	55	97	7	8	-	-	10	10	800
7	Holyhead	26	1000·8	-14	E'S	5	c	54	85	7	5	-	-	9+	9+	5000
	Chester (Sealand)	16	1004·2	-12	SE'E	4	z	51	92	5	5	3	-	4-6	4-6	2800
8	Manchester	70	1005·8	-6	E	3	z	51	85	6	-	3	-	0	4-6	-
10	Spurn Head	29	1009·1	+4	SE'E	4	bc	52	92	7	4	-	-	2-3	2-3	2500
	Catterick	175	1008·4	+4	S	2	z	50	97	6	5	-	-	10	10	1500
	Tynemouth	108	1010·2	0	SSE	3	o/r	52	92	6	-	2	-	10	10	1500
11	St. Abbs Head	280	1008·5	-4	ESE	4	rr	51	97	6	5	-	1	10	10	2000
	Leuchars	36	1008·7	-6	E	4	ir	52	97	6	5	-	-	10	10	500
12	Renfrew (Abbots I.)	19	1007·0	-4	E'N	3	ir	52	85	6	5	-	-	10	10	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1004·3	0	SSE	6	bc	53	92	7	5	-	-	2-3	2-3	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1008·4	0	SE	2	c	49	85	7	5	5	-	4-6	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1009·8	+4	SSE	4	c	51	92	7	5	2	-	7-8	10	1500
16	Lerwick	156	1012·9	+2	SSE	5	c	51	92	6	8	2	-	7-8	10	450
17	Blacksod Point	18	1001·1	+4	E	2	bc	49	92	7	-	6	-	0	4-6	-
18	Malin Head	84	1003·5	0	E	1	z	52	85	8	5	-	-	1	4-6	4000
	Aldergrove	268	1003·2	-6	E'S	3	z	51	92	6	5	3	-	7-8	9	1000
19	Birr Castle	173	999·4	-8	ENE	1	c/pr	50	97	8	3	7	-	2-3	7-8	1500
20	Valentia Obsy.	30	999·2	0	ENE	1	bc	45	92	8	5	5	-	1	4-6	4000
	Roches Point	22	995·9	-2	NE	3	ir	51	92	7	6	2	-	7-8	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 15th 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)	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)
London (Kew)	1009·7	+8	SSE	3	z	54	85	5	5	-	-	9	9	2500	1	*
Croydon	1009·9	+12	SSW	2	c	54	97	7	6	-	-	9	9	800	1	*
S. Farnborough	1009·2	+14	S'W	3	ir	55	85	6	5	3	-	9	9+	800	1	*
Boscombe Down	1007·3	+14	SSW	4	dr	53	97	7	8	-	3	7-8	9+	2000	1	*
Calshot (Sthmtn.)	1008·4	+14	SSW	6	pr	56	92	7	8	3	-	9	10	1800	1	§3
Lympne	1012·6	+10	S	2	c	53	92	8	5	-	-	7-8	7-8	900	1	
Manston	1012·9	+12	S	3	bc	50	97	8	5	3	-	2-3	2-3	800		*
Shoeburyness	1011·5	+10	SSE	3	bc	53	97	7	7	-	-	2-3	2-3	1500	1	*
Felixstowe	1011·7	+10	S	5	b	54	92	7	5	-	8	Tr	Tr	2500	1	2
Gorleston	1012·4	+8	S	4	bc	54	92	6	-	4	4	0	2-3	-	1	2
Mildenhall	1010·2	+10	SE'S	3	bc	51	92	8	8	-	2	1	2-3	5000	0	*
Cranwell	1009·1	+4	SE'S	4	c	50	97	7	5	7	-	7-8	9	900	0	
Birmingham	1006·6	+6	SSE	3	bc	52	92	7	5	-	-	2-3	2-3	800	1	*
Upper Heyford	1007·7	+10	SSE	4	c	52	92	7	9	4	9	4-6	7-8	700	1	*
Ross-on-Wye	1005·3	+12	S'E	4	bc	53	85	7	8	-	-	2-3	2-3	2500	1	*
Hartland Point	1002·1	+38	SSW	6	cjp	54	85	8	9	4	5	2-3	4-6	1000	1	4
Bristol	1004·3	+4	S	3	bc	53	92	8	8	6	-	1	2-3	2500	1	*
Portland Bill	1006·8	+16	SSW	5	RR	54	85	7	5	-	-	10	10	1500	1	4
Plymouth	1005·1	+22	SSW	5	bc	56	85	6	8	-	2	4-6	4-6	1800	1	4
The Lizard	1004·7	+16	SSW	5	bc	54	92	8	8	4	-	4-6	4-6	2500	1	3
Scilly (St. Mary's)	1002·9	+18	SW	4	c	54	92	8	8	6	3	4-6	9	1800	1	3
Guernsey																
Pembroke	999·1	+32	SW	7	cq	55	92	6	8	-	-	9+	9+	800	1	4
Holyhead	998·6	0	SE	6	cq	53	92	7	6	6	-	4-6	7-8	1200	1	3
Chester (Sealand)	1002·5	-2	SE	5	z	53	85	6	8	-	-	4-6	4-6	2200	1	*
Manchester	1004·8	0	SE'E	3	c	54	83	7	5	3	7	7-8	7-8	1800	0	
Spurn Head	1009·4	0	SE'E	5	bc	54	85	7	4	4	-	4-6	4-6	4000	1	3
Catterick	1007·8	0	S'E	2	dd	50	92	5	5	-	-	10	10	700	1	*
Tynemouth	1010·2	0	SE	4	c	52	92	6	9	-	-	7-8	7-8	1200	1	2
St. Abbs Head	1008·4	+2	SE	4	o	49	97	6	5	-	-	10	10	2000	0	2
Leuchars	1008·5	+6	SE	3	z	50	92	6	5	-	-	1	1	4500	1	*
Renfrew (Abbots I.)	1006·3	+2	E'N	3	z	50	85	6	5	-	-	4-6	4-6	5000	1	*
Eskdalemuir	1006·5	-4	SE'S	3	c	49	85	6	5	-	-	9	9	800	1	
Point of Ayre	1001·7	-12	SE	7	rr	53	97	7	6	2	-	7-8	10	1500	1	4
Tiree	1005·0	0	E'S	2	bc	50	92	8	-	3	5	0	2-3	--	0	2
Stornoway	1009·9	+2	SE	1	c	51	85	7	5	7	-	7-8	9+	2500	1	1
Dalwhinnie	1008·0	+2	SSE	2	ir	49	92	6	6	-	-	10	10	1500	1	*
Aberdeen	1009·7	+4	SSE	3	c/r	52	97	5	5	-	-	9+	9+	450	1	2
Wick	1009·4	-2	SE	4	c	52	92	6	5	2	-	4-6	10	1500	1	2
Lerwick	1012·6	-2	SSE	5	dd	51	97	4	5	-	-	10	10	450	1	*
Blacksod Point	1001·2	+4	NE	3	c	51	97	7	9	-	-	9+	9+	800	1	3
Malin Head	1002·9	-2	ENE	4	z	54	85	6	6	-	-	9	9	4000	0	2
Aldergrove	1001·1	-6	E	4	c/r	52	85	6	6	-	-	10	10	1000	1	*
Birr Castle	998·9	0	ENE	1	c/pr	49	97	8	9	7	-	7-8	9	1500	1	*
Valentia Obsy.	1000·1	+8	NE'E	1	ir	47	97	8	6	2	-	9	10	1500	1	2
Roches Point	999·3	+18	N'W	3	ir	52	92	7	6	2	-	7-8	9+	1500	1	3

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)	Night 18h–7h mm. (35)	Sunshine 14th, Hrs. (36)
London (Kew)	55	51	39	0·5	Tr	0·4
Croydon	57	49	46	0·3	1	1·4
S. Farnborough	58	50	43	3	1	1·8
Boscombe Down	57	50		6	3	
Calshot (Sthmtn.)	60	55	53	4	2	4·1
Lympne	56	51	40	1	Tr	2·0
Manston						
Shoeburyness	56	52	45	Tr	Tr	0·9
Felixstowe	56	54	49	Tr	-	0·1
Gorleston	55	53	45	-	-	
Mildenhall	58	47	38	Tr	Tr	0·3
Cranwell	57	44	42	-	Tr	0·8
Birmingham	54	47	40	1*	0·5	0·0
Upper Heyford	55	48	*	2	0·6	*
Ross-on-Wye	57	51	47	2	3	1·2
Hartland Point	60	51	50	0·5	5	2·6
Bristol	59	51	46	4	3	2·3
Portland Bill	58	53	*	5	5	*
Plymouth	59	54	52	0·2	8	3·5
The Lizard	58	53	*	2	9	3·2
Scilly (St. Mary's)	56	54	*	4	3	3·5
Guernsey						
Pembroke	57	52	*	3	5	1·7
Holyhead			45	3	1	0·1
Chester (Sealand)	58	48	39	0·3	Tr	0·1
Manchester	58	48	45	Tr	-	0·0
Spurn Head	54	50	*	-	Tr	0·0
Catterick	55	49	48	-	0·1	0·0
Tynemouth	53	50	46	Tr	0·4	
St. Abbs Head	53	49	*	-	0·6	*
Leuchars	54	50	46	-	1	0·2
Renfrew (Abbots I.)	54	49	44	Tr	Tr	4·7
Eskdalemuir	54	45	42	0·6	Tr	0·4
Point of Ayre	59	52	*	-	1	3·9
Tiree	55	49	*	-	-	0·0
Stornoway	54	47	*	-	-	2·6
Dalwhinnie	50	45	39	-	1	2·2
Aberdeen	52	50	47	Tr	0·2	0·0
Wick	52	49	*		Tr	*
Lerwick	52	49	*	0·2	2	0·3
Blacksod Point	53	48	*	5	8	*
Malin Head	56	50	*	-	0·6	0·0
Aldergrove	54	49	45	Tr	1	0·0
Birr Castle	53	48	45	2	4	0·0
Valentia Obsy.	59	44	38	-	Tr	1·4
Roches Point	58	50	*	2	12	*

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	Afternoon	Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Night mm.	Sunshine, to Sunset, hrs. Yesterday	Humidity 15h. G.M.T. %	9h. G.M.T. % To-day	Visibility 9h.
		24 hrs. ended 9h.											
Kew	18	emir°dm	edcid°cbc	bccpr°c	55	51	39	0·5	Tr	0·4	*	*	6
Croydon	217	r	edd°bm°	bm°bcr°	57	49	46	0·3	1	1·4	*	*	7
Greenwich (Royal Observatory)	149	c	cd.c	cbrcrc	54	47	35	Tr	0·5	0·9	93	82	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	58	51	44	-	-		93	85	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	57	51	42	Tr	-		71	81	*
Camden Square	110	o	o	*	57	49	40	Tr	-	*	*	82	*
Kensington	80	cd	bcz	*	56	49	37	Tr	Tr		93	85	*
Hampstead Observatory	450										*		*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington				
Kew Observatory	0·2	11-12h. 14th.	40·1	0-6h. 15th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome														

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Preciptious.
4 Rough. 9 Confused.

‡ 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.

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 16th October 1940.

No. 28818.

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)...	1011·7	+4	S	4	c	61	75	8	7	7	1	4-6	7-8	2500
	Croydon	1012·2	+10	SSW	2	pr	57	85	7	9	-	1	9+	9+	1100
	S. Farnborough	1011·4	+6	SSW	4	c/pr	60	75	7	8	3	1	9	9+	1600
	Boscombe Down	1008·9	+14	S'W	5	pr	58	85	8	8	-	9	7-8	9	1500
	Calshot (Soton.)	1011·2	+10	SW'S		c/pr	60	75	8	8	-	1	7-8	9	2500
	Lympne ...	1014·2	+6	S	4	c	58	85	8	5	-	2	4-6	7-8	1000
	Manston ...	1014·8	+8	SSW	4	c	58	85	8	8	-	-	9	9	2000
2	Shoeburyness ...	1013·4	+2	S	3	c	59	85	8	7	-	-	7-8	7-8	2500
	Felixstowe ...	1013·6	+2	S'W	4	b	61	75	7	8	-	1	1	1	2000
	Gorleston ...	1014·2	+6	S'E	5	bc	57	65	6	2	-	-	4-6	4-6	2500
	Mildenhall ...	1011·6	-2	S'E	4	pr	60	75	8	8	-	1	9+	9+	2000
	Cranwell ...	1010·3	-2	S'E	4	ip	57	85	6	5	7	-	7-8	9+	400
3	Birmingham	1007·5	+6	S	2	c	57	75	8	8	-	8	4-6	9	1500
	Upper Heyford	1009·9	+6	S'E	3	pr	58	85	7	9	6	-	7-8	9	500
4	Ross-on-Wye ...	1007·7	0	S	4	pr	60	75	8	9	-	2	7-8	9+	2500
5	Hartland Point	1006·2	+10	WSW	4	c/pr	59	97	8	8	6	6	4-6	9	1500
	Bristol	1008·6	+2	SSW	4	c/pr	57	85	8	8	6	9	7-8	9	1500
	Portland Bill ...	1009·9	+18	SSW	5	c	54	92	7	5	7	-	4-6	10	4000
	Plymouth ...	1007·7	+8	S	5	c	58	85	8	2	3	-	9+	9+	1200
	The Lizard ...	1008·0	+16	S	5	bc	59	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1006·5	+14	SW	4	bc	59	85	8	8	4	4	2-3	4-6	1500
	Guernsey ...														
6	Pembroke ...	1005·0	+12	SW	5	cq	57	85	7	8	-	-	9	9	800
7	Holyhead ...	1002·7	+34	SSW	5	c	58	75	7	2	3	4	4-6	7-8	2200
	Chester (Sealand)	1005·8	+12	SSE	4	c	60	65	7	4	3	-	7-8	7-8	2500
8	Manchester ...	1007·3	+10	SSE	4	c	62	55	8	8	4	-	4-6	7-8	2500
10	Spurn Head ...	1010·9	0	SE'E	5	c	56	85	7	4	-	-	9	9	2500
	Catterick ...	1008·0	-2	S'E	4	zo	59	75	6	5	-	-	7-8	7-8	2000
	Tynemouth ...	1009·6	+4	SE	4	c	55	92	7	8	-	-	7-8	7-8	1400
11	St. Abbs Head	1007·3	+8	SE	6	bc	54	92	7	5	2	-	2-3	4-6	2500
	Leuchars ...	1007·8	-8	ESE	4	z	56	85	6	8	3	-	4-6	4-6	2200
12	Renfrew (Abbots I.)	1004·7	-14	E'S	4	zo	57	75	6	5	3	-	10	10	2500
	Eskdalemuir ...	1005·4	-8	S'E	4	iro	54	75	6	5	-	-	10	10	1500
	Point of Ayre ...	1002·2	+4	S	6	c/p	55	97	8	8	7	-	7-8	9+	1500
13A	Tiree	1003·7	-4	ESE	3	ip	54	92	6	-	2	-	9+	9+	1500
13B	Stornoway ...	1007·4	-6	E	3	c	55	85	8	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1007·0	-10	SE	3	c	51	95	7	8	-	-	7-8	9	1500
	Aberdeen ...	1010·4	-4	SE'S	4	c	54	92	6	5	-	-	9+	9+	800
	Wick	1010·5	+2	SSE	4	c	58	85	7	5	7	8	7-8	9	800
16	Lerwick... ...	1014·2	+6	SSE	5	c	51	97	6	5	2	-	4-6	10	800
17	Blacksod Point...	1002·2	+2	N	2	c	55	92	6	5	-	-	10	10	<150
18	Malin Head ...	1001·0	-16	ENE	5	c/pr	52	92	6	5	-	-	9+	9+	800
	Aldergrove ...	998·4	-16	E'N	3	ido	54	92	5	5	-	-	9+	10	800
19	Birr Castle ...	1001·6	+12	W	1	c	55	85	8	8	6	-	7-8	9	1500
20	Valentia Obsy. †	1002·7	+8	W'N	1	c	56	85	9	8	7	1	2-3	7-8	1500
	Roches Point ...	1002·8	+10	SWW	3	c/p	54	85	8	6	2	-	7-8	9+	1500

OBSERVATIONS at 18h. G.M.T. 15th 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)	1013·7	+14	SSE	3	pr	56	85	7	9	-	2	7-8	7-8	1500	1	*
Croydon	1013·6	+12	SSW	1	zo	55	85	6	4	4	4	2-3	7-8	2500	1	*
S. Farnborough	1013·2	+10	S	3	c/pr	57	85	7	8	4	1	4-6	9	2500	1	*
Boscombe Down	1011·9	+16	S'E	4	c	54	92	6	8	6	1	4-6	7-8	1000	1	*
Calshot (Soton.)	1012·6	+10	S	4	zo	58	85	6	5	3	-	2-3	7-8	2700	1	2
Lympne	1015·2	+6	S	2	bc	57	85	7	2	4	2	tr	4-6	1500	1	§
Manston	1015·7	+6	S	2	bc	54	85	7	5	-	2	1	4-6	2500		*
Shoeburyness	1015·1	+10	S'E	3	c	56	92	8	4	5	-	2-3	7-8	-	0	*
Felixstowe	1015·5	+14	S	4	c	56	85	7	4	4	2	tr	7-8	3000	1	2
Gorleston	1015·5	+10	S	4	bc	57	75	7	-	4	1	0	4-6	-	0	2
Mildenhall	1013·5	+10	SSE	4	c	57	85	7	-	6	2	0	7-8	-	1	*
Cranwell	1011·8	+10	S	4	c	57	75	7	5	-	-	7-8	7-8	2500	1	*
Birmingham	1010·8	+10	SSE	3	c	54	85	6	5	7	-	1	9	1500	1	*
Upper Heyford	1011·4	+14	SSE	4	pr	54	92	6	9	-	-	9+	9+	700	1	*
Ross-on-Wye	1009·5	+10	S	4	bc	55	85	7	5	-	2	2-3	4-6	2500	1	*
Hartland Point	1008·6	+22	WSW	4	c/pr	56	92	8	9	4	5	4-6	9	1500	1	3
Bristol	1010·8	+10	S'W	2	c	56	85	8	8	3	5	2-3	9+	1500	1	*
Portland Bill	1011·7	+14	SSW	5	e	57	92	7	3	-	-	10	10	1500	1	5
Plymouth	1010·3	+16	S	5	e	57	92	7	8	2	-	7-8	10	1000	0	3
The Lizard	1010·3	+10	SSW	4	c/pr	55	97	8	8	2	-	7-8	9	1500	0	2
Scilly (St. Mary's)	1009·0	+14	SW'S	3	c	55	85	8	8	4	3	4-6	7-8	1500	1	3
Guernsey																
Pembroke	1006·9	+14	SSW	5	cq	56	85	7	8	-	-	9+	9+	1500	1	3
Holyhead	1005·7	+18	S'E	4	c/pr	55	92	7	9	-	-	9+	9+	1700	1	3
Chester (Sealand)	1007·9	+14	SE'S	3	c/pr	56	85	6	8	3	2	7-8	9+	1800	1	*
Manchester	1008·7	+10	SSE	3	zo	56	85	6	8	3	-	7-8	9	2700	0	*
Spurn Head	1012·0	+2	SE'E	4	c	55	85	7	5	-	-	7-8	7-8	4000	1	3
Catterick	1008·8	+8	SSE	3	zo	56	85	6	5	7	-	4-6	9+	2500	0	
Tynemouth	1010·2	+6	SSE	4	bc	54	92	6	8	3	-	4-6	4-6	2400	1	3
St. Abbs Head	1008·3	+10	SE	6	c	52	92	6	5	5	7	7-8	10	2000	1	3
Leuchars	1008·1	+8	SE	4	z	54	92	6	5	1	-	7-8	9	2800		*
Renfrew (Abbots I.)	1005·6	+10	SE'E	3	zo	55	75	6	5	4	-	4-6	7-8	3000	1	*
Eskdalemuir	1007·6	+14	SSW	3	c/p	50	85	6	5	1	-	7-8	9+	1500	1	*
Point of Ayre	1005·6	+14	SSW	5	c	54	92	7	8	-	-	7-8	7-8	1500	1	3
Tiree	1001·2	-6	NE'E	4	RR	52	97	6	-	2	-	9+	9+	1200	1	3
Stornoway	1006·5	-6	E	5	c	53	85	7	5	7	-	7-8	9+	2000	1	3
Dalwhinnie	1006·5	0	SE	5	c	50	85	6	6	1	-	9	10	1500	1	*
Aberdeen	1010·1	+4	SSE	3	c	53	92	6	5	-	-	9+	9+	800	1	3
Wick	1009·5	+4	SSE	6	c	52	92	6	5	7	-	7-8	10	800	1	3
Lerwick	1015·1	+8	SE'S	4	c	51	92	6	5	2	1	7-8	10	800	1	*
Blacksod Point	1003·4	+14	NNW	1	c	52	97	6	5	-	-	10	10	<150	0	1
Malin Head	1000·7	+6	NNW	1	zo	52	92	6	8	-	-	9+	9+	1500	1	2
Aldergrove	1002·4	+36	SSW	3	pr	52	92	6	9	-	-	10	10	900	1	*
Birr Castle	1003·7	+12	WNW	1	pr	53	92	7	9	1	-	7-8	10	800	1	*
Valentia Obsy. †	1004·8	+10	-	0	bc	51	92	8	5	-	1	2-3	2-3	800	1	2
Roches Point	1004·6	+14	SW	3	iro	54	92	8	6	7	-	7-8	9+	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 15th (37)	Weather 13h.—18h. 15th (38)	Weather 18h. 15th to 1h. 16th (39)	Weather 1h.—7h. 16th (40)
London (Kew)	cidgomoc	cprbecpro	c	ccmw
Croydon	cpro		bcpro c	ccmo
S. Farnborough	prPRpro	cprbc	bc	cmowbc
Boscombe Down	crrmopp		cfR tlrc	cmoFf
Calshot (Soton.)	cproc	cprobc	cmo⊕cl	cmow⊕
Lympne	cbcc		c⊕w	c⊕w
Manston	bcc	bc	bccbc	bcc
Shoeburyness	bcc	c	ciroc	c
Felixstowe	bbc	bcb	bcc	ccmo
Gorleston	bc	bc	bcw	bccw
Mildenhall	bwbcspo	cbc	bcccw	
Cranwell	cemoir	cirom c	cmo	cmo,off
Birmingham	cprobc	ciR	cbc	bcom
Upper Heyford	bccrrRR	cprobcprom	cpr	cmoff
Ross-on-Wye	bbccpo	crRcbc	bcc	cbmo
Hartland Point	bccp	bccp	cpbcc	c
Bristol	bccpropr	cprobcc	c	cbcwfg
Portland Bill	orc	o	PRc	o
Plymouth	bcmcbcc	c	cproc	cbcc
The Lizard	cbc	bcprc	cbccw⊕	c
Scilly (St. Mary's)	cbc	bcc	cbc	bcciro
Guernsey				
Pembroke	cbccprc	cq	bcqc	
Holyhead	mossqc	iroprc	cprobc	cPRc
Chester (Sealand)	bcbpro	proprc	cmo	cbcprocmo
Manchester	cbccy	cyczom	cmo	cmo
Spurn Head	c	c	bc	bccw
Catterick	oddirocm	bczcmo	mroccmo	cmoof
Tynemouth	cpc	cbc	bcc	c
St. Abbs Head	cmbcm	bccmo	moc	cmo
Leuchars	cbcmo		cmo	cmobc
Renfrew (Abbots I.)	cmoroc	cmiroirm	cmorofR	cmoprro
Eskdalemuir	cirom	cirocz	c	crr
Point of Ayre	cppo	bcc	c	crrc
Tiree	bcoir	cR	cRbc	ciR
Stornoway	c	cpro	cbccpr	cpr
Dalwhinnie	cprc	ciro		ciroo
Aberdeen	cz	rocz	cmo	omo
Wick	idmoc		cmo	cmo
Lerwick	ocidf	cmo	coifc	
Blacksod Point	bc	c	c	proc
Malin Head	cpcPRc	czzc	cproproc	c
Aldergrove	cidiroidm	idoprpro	cpromoc	cprocmo
Birr Castle	orrc	cpr	cpr	c
Valentia Obsy. †	iroidobc	bccbc	cwbccmoc	cbcbbc
Roches Point	poirc	ciro	rcifc	irrr

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

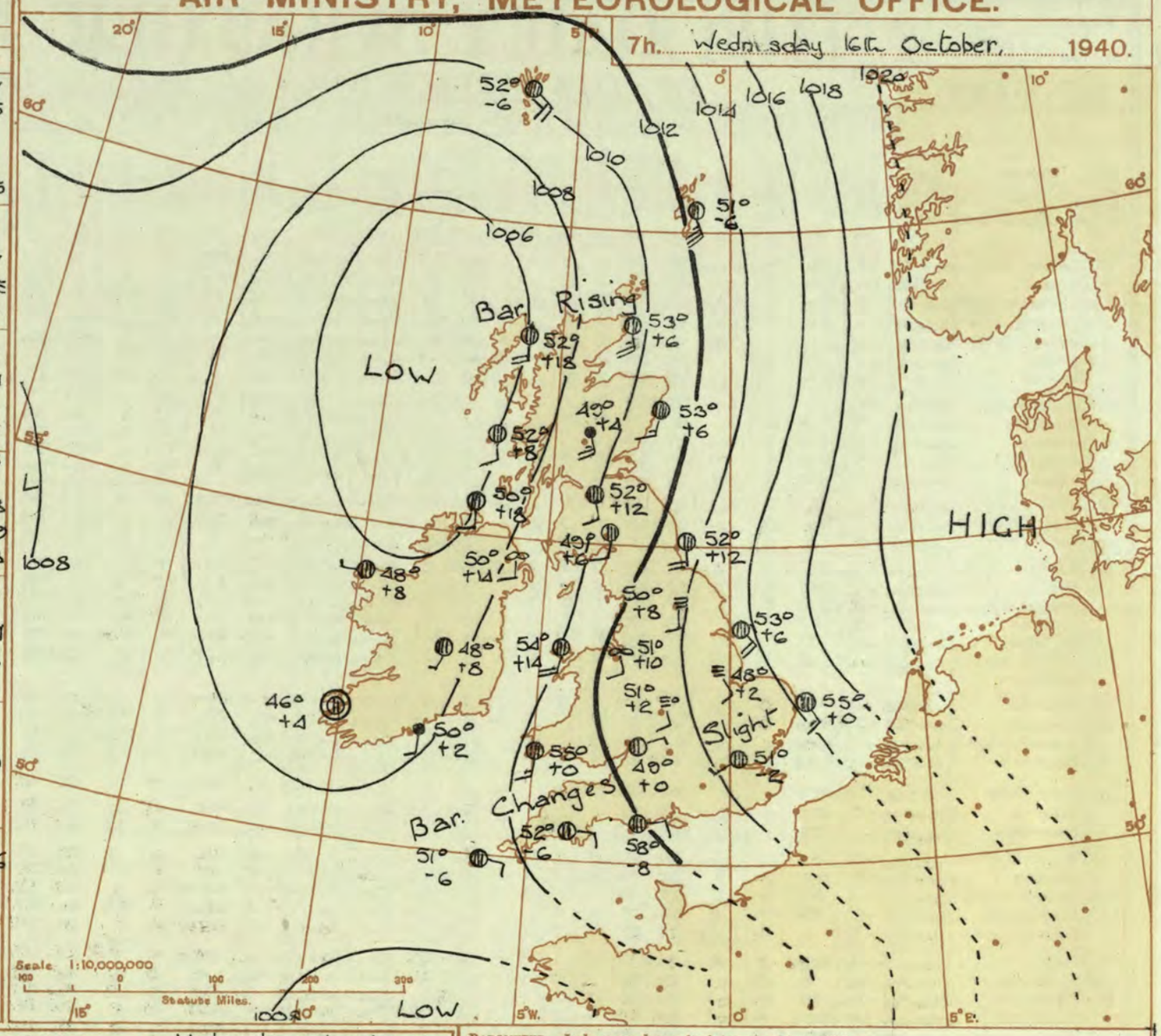
AVIATION WEATHER CODE

	13h. G.M.T. 15th October			18h. G.M.T.			01h. G.M.T. 16th October			07h. G.M.T.		
III	$C_L C_M$	ww $V_h N_h$	DDFWN	$C_L C_M$	ww $V_h N_h$	DDFWN	$C_L C_M$	ww $V_h N_h$	DDFWN	$C_L C_M$	ww $V_h N_h$	DDFWN
109				55	05635	45526	5-	02648	11558	57	05535	12527
115	87	01754	08325	52	02844	10425	87	81844	12487	73	14854	49585
203												
206	57	02854	09325	83	81755	10415	5-	02755	08365	57	02355	11428
210	5-	61647	10327	53	01754	10465	5-	62754	08127	57	02853	12325
220	53	02864	07216	62	63645	09328				52	03735	16228
230	53	01854	08384	57	22646	10368	53	02745	15267			
245	02	59538	10458	5-	05655	12555	5-	22566	15366	53	05665	14367
260	8-	02745	08415	5-	61558	12488	53	05663	12267	53	01761	08225
277	62	64626	45668	57	02744	15667	9-	66747	15487	87	02746	16368
279												
285	5-	02638	14527	8-	02747	14527				23	01734	14484
288	86	05652	12564	52	02755	14828	53	05663	15325	07	01756	16224
273	62	31544	08188							51	05653	13106
301	24	01754	15565	83	81655	12288	53	05665	14486	07	05556	14484
321	87	02755	49566	57	02654	15427	57	05664	14227	57	08468	15325
299	57	01744	16515	5-	22744	16464	57	01753	15414	57	05644	16315
292	83	05644	12465	87	05654	14888	07	02656	10226	57	08457	14228
310	--	01634	16514							--	46209	20449
316	87	25645	15387	57	02546	14828	53	05673	16287	52	08445	14228
333	93	02754	16615	53	02864	16527	54	01854	16514	45	01852	17414
334												
340				83	02746	14887	5-	05567	14327	56	05644	14224
136	10	02754	14516				04	02756	15327	57	02762	12226
336	--	02853	16415							--	02852	16415
350	87	25744	15586	47	02764	16585						
368												
379	23	02745	16328	63	25645	18286	03	47256	16225	--	46109	14249
390	8-	02846	-----									
382	86	25744	16484	8-	81647	14887	53	05653	00024	--	48309	10129
438	63	02743	23615							02	02747	10417
430	83	02743	18515	83	02754	17416	00	02756	00028	89	05653	14226
409	4-	01844	18585	87	02746	16887	50	05651	16328	07	02656	13385

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 16th October, 1940.



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. Wednesday 16th October,
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate southeasterly winds. Fair intervals at first, cloudy later with occasional local rain or showers, mild.
5 S.W. England 6 South Wales ... 7 North Wales ...	Light southeasterly wind, mainly cloudy with occasional thundery rain or showers, some bright intervals later, average temperature.
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 southerly wind backing southeast. Mainly cloudy with occasional rain or showers and local thunder, mild.
13 { A. W. Scotld. / B. N.W. Scotland.	Fresh south to southeast wind, moderating, mainly cloudy with occasional showers and local thunder, but some bright intervals, mild.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	
17 N. W. Ireland 18 N. E. Ireland	As 8-13A.
19 S. E. Ireland 20 S. W. Ireland	Light variable wind, becoming east to southeast. Mainly cloudy with occasional thundery rain or showers, some bright intervals later, average temperature.

GENERAL INFERENCE.

Pressure is high to the east of the British Isles, and low pressure centres off northwest Ireland and the Bay of Biscay are moving slowly northwards. Weather over the British Isles will be mainly cloudy with occasional local rain or showers with perhaps some thunder, but a period of more continuous rain is likely to spread northwards from France. Temperatures will be above average for the season.

FURTHER OUTLOOK.

Generally unsettled and rather mild.

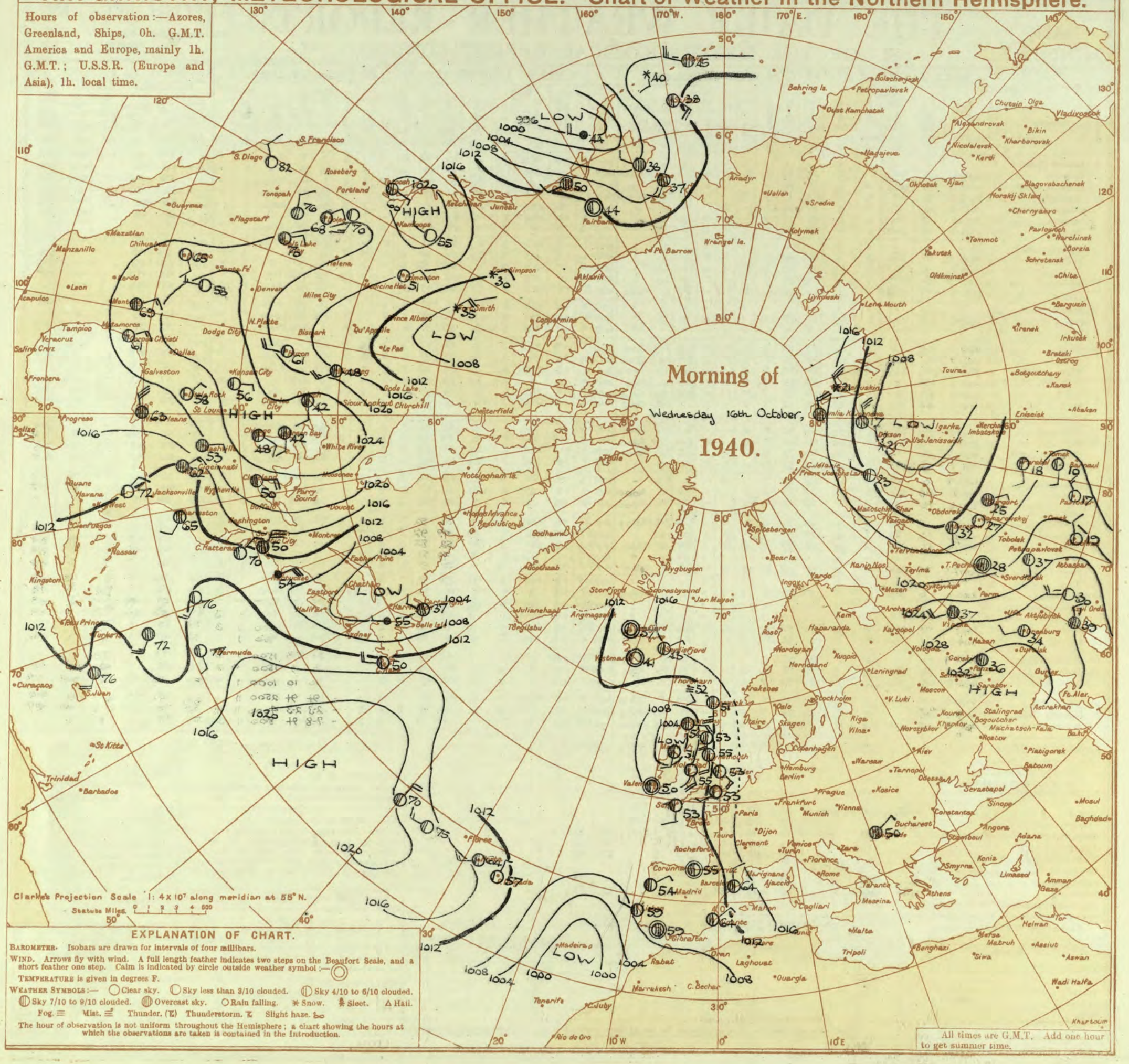
Forecasts issued at

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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.



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 16th October 1940.

No. 28818

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)	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	1014·6	+2	SW	1	c	53	97	7	5	7	6	2-3	10	2000
	S. Farnborough	226	1014·5	+2	SE'E	2	fg	52	97	7	-	1	6	0	9+	-
	Boscombe Down	417	1013·3	+2	SE	2	c	53	97	7	8	-	7	7-8	10	2000
	Calshot (Sthmtn.)	8	1013·6	+2	S	3	c	57	92	7	-	3	7	0	10	-
	Lympne ...	346	1016·0	-2	S	2	c	53	97	7	-	7	7	0	10	-
	Manston ...	154	1016·3	+4	S'W	3	c	52	92	7	-	4	6	0	7-8	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1015·9	0	S'E	3	c	56	85	7	-	7	7	0	10	-
	Gorleston ...	5	1016·0	0	S	3	bc	55	92	6	-	4	6	0	4-6	-
	Mildenhall ...	19	1014·8	+2	SE'S	2	c	54	85	7	-	-	7	0	10	-
	Cranwell ...	240	1013·9	+4	S'E	3	zo	50	97	6	5	7	-	7-8	10	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013·6	+6	S	3	c/pr	52	97	6	-	4	6	0	9	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010·6	+4	S	3	c	53	92	8	3	4	9	2-3	7-8	1500
	Bristol ...	209	1012·9	+6	SSE	1	c	53	97	8	5	7	7	4-6	10	2500
	Portland Bill ...	32	1012·8	+4	SSW	4	c	56	92	7	5	-	-	10	10	4000
	Plymouth ...	82	1011·6	+32	S	4	c/pr	57	85	7	8	1	7	4-6	10	1400
	The Lizard ...	240	1010·9	+4	S	3	c	55	97	7	5	1	-	7-8	9+	1500
	Scilly (St.Mary's)	163	1010·1	+4	S'W	2	bc	53	92	8	5	-	6	1	2-3	1500
	Guernsey ...	175														
6	Pembroke ...	142	1009·9	+10	SSW	5	cq	56	85	8	2	-	-	7-8	7-8	1800
7	Holyhead ...	26	1007·6	+8	S'E	4	bc	55	92	7	8	-	2	4-6	4-6	2500
	Chester(Sealand)	16	1010·7	+6	S'E	1	zo	53	92	6	5	-	-	7-8	7-8	1500
8	Manchester ...	70	1011·1	+6	SSE	3	zo	54	85	6	-	3	7	0	10	-
10	Spurn Head ...	29	1013·4	0	SE	4	bc	53	92	7	-	4	-	0	4-6	-
	Catterick ...	175	1011·8	+10	SSE	3	zo	52	97	5	5	1	-	4-6	10	2000
	Tynemouth ...	108	1011·6	+6	S	4	c	55	85	6	5	-	-	9+	9+	3000
11	St. Abbs Head	280	1009·5	+2	SE	3	c	52	92	6	5	4	-	4-6	7-8	2500
	Leuchars ...	36	1008·9	+2	SE	3	zo	52	92	5	-	7	-	0	10	-
12	Renfrew (Abbots I.)	19	1007·6	+2	SE	2	pr	58	97	6	6	2	-	7-8	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1007·5	+4	SSW	5	c	55	97	8	8	4	-	7-8	9	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005·0	-6	ESE	4	c	54	85	7	5	7	-	7-8	10	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1008·4	-8	SSE	6	c	53	92	6	5	3	8	4-6	9+	2500
16	Lerwick ...	156	1014·1	-4	S	5	c	51	92	7	5	2	-	7-8	10	800
17	Blacksod Point	18	1005·4	+6	-	0	c	52	97	6	-	7	-	0	10	-
18	Malin Head ...	84	1003·9	+8	S'W	2	c	51	92	6	3	-	-	9+	9+	800
	Aldergrove ...	268	1005·8	+8	S'E	2	pr	51	92	7	8	-	-	10	10	6000
19	Birr Castle ...	173	1006·3	+12	WNW	1	c/pr	50	92	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	30	1007·0	+6	-	0	c	50	97	7	5	-	-	10	10	4000
	Roches Point	22	1007·5	+12	N	2	lf	48	97	3	5	-	-	7-8	7-8	2500

OBSERVATIONS at 7 hr. G.M.T. 16th 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)	1014·2	-4	NE'E	2	m	51	97	4	5	1	2	1	9	1500	1	*
	Croydon	1014·2	-2	SW	1	c	51	97	6	-	4	2	0	9	-	1	*
	S. Farnborough	1013·8	-4	E	2	fg	51	97	6	5	3	2	1	4-6	5700	1	*
	Boscombe Down	1013·1	-2	E'N	2	F	51	97	1	5	7	-	7-8	9+	2000	1	*
	Calshot (Sthmtn.)	1012·8	-2	ESE	3	c	55	92	7	5	7	8	4-6	9	3500	1	
	Lympne	1015·3	-6	SSE	2	c	51	97	8	-	7	7	0	9+	-	1	§
	Manston	1015·3	-6	E	2	c	53	97	7	5	7	9	1	9+	2000		*
2	Shoeburyness	1015·1	-4	SE'E	3	c	53	97	8	5	7	-	2-3	10	5700	1	*
	Felixstowe	1015·6	-6	E'S	3	zo	54	97	6	-	4	7	0	9+	-	1	1
	Gorleston	1016·5	0	SE'S	3	c	55	92	6	-	7	6	0	9	-	1	2
	Mildenhall	1015·2	0	E'S	2	zo	50	97	6	-	7	8	0	7-8	-	1	*
	Cranwell	1014·7	+2	SE'S	2	f-	48	97	2	-	-	-	10	10	4150	0	*
3	Birmingham	1013·8	+2	SSE	2	m	51	97	4	5	-	-	10	10	220	1	*
	Upper Heyford	1013·9	+2	E'N	1	cF+	50	97	1	5	-	7	7-8	10	1000	1	*
4	Ross-on-Wye	1012·4	0	NE	1	fg	49	97	6	5	-	2	1	2-3	4000	1	*
5	Hartland Point	1010·3	-4	ESE	3	c	52	97	8	3	6	-	2-3	9	1500	1	2
	Bristol	1012·8	+2	SSE	1	fg	49	97	6	5	3	2	2-3	4-6	200	1	*
	Portland Bill	1011·6	-8	ENE	2	c	58	92	8	3	7	-	7-8	10	2500	1	3
	Plymouth	1010·8	-6	E	2	bc	52	97	8	-	3	8	0	4-6	-	1	2
	The Lizard	1009·9	-4	NE	2	c	54	97	7	8	6	-	7-8	7-8	1500	1	2
	Scilly (St.Mary's)	1009·2	-6	ESE	2	c/r	51	97	8	5	2	-	7-8	9+	1400	1	2
	Guernsey																
6	Pembroke	1010·4	0	S'W	3	c	55	85	7	8	7	1	4-6	7-8	2000	1	2
7	Holyhead	1009·8	+14	S'W	4	c	54	92	7	8	5	9	4-6	7-8	2000	1	3
	Chester(Sealand)	1012·2	+10	SSE	2	zo	51	92	6	5	7	-	2-3	7-8	3500	1	*
8	Manchester	1012·9	+8	SSE	1	zo	51	92	6	5	3	-	4-6	9	4000	0	*
10	Spurn Head	1015·3	+6	SE	4	c	53	92	7	-	4	7	0	9+	-	1	3
	Catterick	1013·4	+8	S'E	2	cf+	50	97	3	5	-	-	10	10	200	0	*
	Tynemouth	1014·0	+12	S	4	c	52	92	5	5	-	-	7-8	7-8	1500	1	2
11	St. Abbs Head	1011·2	+8	SSE	2	c	51	92	7	5	2	7	4-6	9+	2500	1	2
	Leuchars	1010·7	+12	SSE	2	bc	49	92	7	-	4	9	0	4-6	-	1	*
12	Renfrew (Abbots I.)	1009·2	+12	SSE	2	c/r	52	85	6	5	-	-	10	10	2500	1	*
	Eskdalemuir	1010·8	+6	S'W	2	c	49	85	7	5	1	-	9	10	1500	1	*
	Point of Ayre	1009·9	+12	SSW	4	c	52	97	8	8	7	-	4-6	7-8	1500	1	3
13A	Tiree	1005·5	+8	SSE	2	c/r	52	97	7	8	-	-	9+	10	800	1	3
13B	Stornoway	1005·7	+18	S	4	c	52	92	7	5	7	-	4-6	10	1500	1	2
15	Dalwhinnie	1009·0	+4	SSE	5	ro	49	85	6	6	1	-	7-8	10	1500	1	*
	Aberdeen	1011·3	+6	SSW	3	o	53	92	6	5	-	-	10	10	800	1	3
	Wick	1009·5	+6	SSE	5	c	53	92	6	5	7	8	7-8	9+	1500	1	3
16	Lerwick	1013·4	-6	SSE	7	c	51	92	6	5	2	-	7-8	10	450	1	*
17	Blacksod Point	1007·0	+8	W	1	c	48	92	7	3	-	-	7-8	7-8	1500	1	2
18	Malin Head	1005·9	+18	S	2	c	50	92	7	8	-	-	9	9	1500	0	2
	Aldergrove	1008·1	+14	S	2	zo	50	97	6	5	-	-	10	10	1000	1	*
19	Birr Castle	1007·9	+8	SSW	1	c	48	97	7	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1007·5	+4	-	0	bc	46	97	8	5	3	-	2-3	2-3	4000	1	1
	Roches Point	1007·8	+2	S	1	rr	50	97	7	6	2	-	7-8	9+	800	1	3

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 15th. Hrs. (36)
1	London (Kew)	61	50	40	1	Tr	3·8
	Croydon	59	50	25	1	0·2	0·8
	S. Farnborough	61	50	44	1	0·1	2·5
	Boscombe Down	60	50	48	10	2	2·3
	Calshot (Sthmtn.)	61	54	49	0·2	-	3·6
	Lympne	61	51	42	-	Tr	5·6
	Manston						
2	Shoeburyness	61	51	47	Tr	0·1	5·4
	Felixstowe	61	54	49	-	-	8·9
	Gorleston	59	53	46	-	-	8·7
	Mildenhall	62	49	40	0·3	Tr	5·7
	Cranwell	60	47	42	0·3	Tr	1·5
3	Birmingham	59	49	45	3*	-	1·3
	Upper Heyford	61	49	43	9	2	*
4	Ross-on-Wye	61	49	39	4	-	4·2
5	Hartland Point	58	51	49	1	0·6	6·1
	Bristol	59	49	44	1	-	0·6
	Portland Bill	58	54	*	2	3	*
	Plymouth	59	51	51	-	0·6	2·5
	The Lizard	60	53	*	-	Tr	5·5
	Scilly (St.Mary's)	60	52	*	-	0·1	6·6
	Guernsey						
6	Pembroke	58	54	*	-	-	6·1
7	Holyhead	58	51	50	2	2	2·4
	Chester(Sealand)	62	53	45	0·3	Tr	3·3
8	Manchester	62	50	45	-	-	4·8
10	Spurn Head	56	51	*	Tr	Tr	2·6
	Catterick	58	49	47	0·4	Tr	3·3
	Tynemouth	55	52	49	0·3	-	*
11	St. Abbs Head	54	50	*	Tr	-	*
	Leuchars		48	44		-	1·6
12	Renfrew (Abbots I.)	57	51	47	1	4	0·1
	Eskdalemuir	55	47	45	1	1	0·2
	Point of Ayre	56	51	*	3	1	0·4
13A	Tiree	55	50	*	8	13	1·7
13B	Stornoway	52	50	*	Tr	2	1·6
15	Dalwhinnie	51	47	44	6	3	0·3
	Aberdeen	54	53	50	Tr	-	0·0
	Wick	54	51	*	Tr	-	*
16	Lerwick	53	49	*	Tr	-	0·0
17	Blacksod Point	57	48	*	Tr	1	*
18	Malin Head	55	49	*	6	2	1·1
	Aldergrove	58	49	47	7	0·5	0·4
19	Birr Castle	55	47	44	6	2	0·0
20	Valentia Obsy.	57	46	39	0·1	Tr	4·7
	Roches Point	55	48	*	1	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.	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	cidoromoc	cprbccpro	ccmw	61	50	40	1	Tr	3·8	*	*	
Croydon ...	217	cpro		bcprcmo	59	50	25	1	0·2	0·8	*	*	
Greenwich (Royal Observatory)...	149	c	crc	cbcwcf	61	49	41	1	Tr	2·0	79	96	3
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	61	52	47	—			83	95	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*									*
Camden Square ...	110	bc	bc	*	62	51	43	-	-	*	*	96	*
Kensington ...	80	cpbc	bcpbc	*	63	52	44	Tr	-		82	99	*
Hampstead Observatory ...	450										*		*

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.

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 15th October Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 16th 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.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...					*						*	*		

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 17th October 1940.

No. 28819

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	−24	ENE	4	zo	58	85	5	8	3	−	7-8	9+	1500
	Croydon	1011·8	−22	S	2	zo	58	85	8	5	3	−	2-3	9+	2500
	S. Farnborough	1010·8	−26	NE'E	3	zo	59	85	6	8	3	−	9+	10	1000
	Boscombe Down	1010·4	−22	ENE	2	c	57	85	7	6	7	−	4-6	10	1600
	Calshot (Soton.)	1009·4	−30	ENE	3	iro	57	92	7	8	2	−	4-6	10	4000
	Lympne	1012·4	−26	E	3	zo	58	85	6	1	1	8	Tr	9+	1100
	Manston	1012·4	−26	ESE	3	zo	57	85	6	−	1	7	0	10	−
2	Shoeburyness	1012·7	−20	E'N	3	c	57	92	6	5	1	2	2-3	9+	4000
	Felixstowe	1013·3	−18	E'S	3	c	58	85	7	−	4	7	0	10	−
	Gorleston	1015·0	−16	ESE	3	c	57	85	6	−	7	−	0	7-8	−
	Mildenhall	1013·0	−22	ESE	4	c	60	75	8	8	7	−	7-8	10	2000
	Cranwell	1014·2	−14	SE	3	c	59	75	7	5	−	−	9	9	1800
3	Birmingham	1012·4	−14	E	2	c	57	75	6	8	7	−	4-6	7-8	2500
	Upper Heyford	1011·8	−20	E	3	c	59	75	7	8	6	9	4-6	9	2100
4	Ross-on-Wye	1011·3	−14	N'E	2	c	55	92	7	6	2	−	7-8	10	1500
5	Hartland Point	1009·6	−12	NNE	3	c	56	85	8	8	3	3	2-3	9	1500
	Bristol	1011·1	−18	ENE	2	zo	57	85	6	5	7	−	4-6	10	3500
	Portland Bill	1009·0	−20	NE	2	rr	58	92	7	5	−	−	10	10	2500
	Plymouth	1009·0	−12	E	2	iro	57	85	8	2	2	−	2-3	10	1600
	The Lizard	1008·7	−10	SE	2	c/pr	55	92	8	3	2	−	9	10	2100
	Scilly (St. Mary's)	1009·4	−6	NE'N	3	bc	59	85	8		7	3	4-6	4-6	1500
	Guernsey														
6	Pembroke	1010·6	−2	SE'E	3	c	59	85	7	5	6	−	4-6	9	3000
7	Holyhead	1011·5	+2	S	3	bc	59	85	8	8	4	−	2-3	2-3	3000
	Chester (Sealand)	1012·8	−4	SE'S	3	zo	57	85	5	5	7	−	4-6	9+	3500
8	Manchester	1013·3	−6	SE'E	2	c	59	75	7	5	3	7	4-6	10	3500
10	Spurn Head	1014·2	0	E	3	c	55	92	7	−	5	6	0	7-8	−
	Catterick	1015·0	0	SSE	2	zo	53	92	5	5	−	−	10	10	900
	Tynemouth	1015·2	+6	SSE	3	bc	56	85	7	8	3	1	4-6	4-6	3200
11	St. Abbs Head	1013·6	+6	SE	3	c	57	75	8	4	5	3	4-6	7-8	2500
	Leuchars	1013·3	+10	SSE	3	c	59	75	7	8	7	6	2-3	7-8	3500
12	Renfrew (Abbots I.)	1012·4	+10	SSE	2	pr	56	85	8	9	−	−	9+	9+	1500
	Eskdalemuir	1013·0	+6	SSW	4	c	56	65	7	5	7	1	2-3	7-8	2500
	Point of Ayre	1012·5	+8	SSW	4	bc	57	85	8	2	4	5	2-3	2-3	1500
13A	Tiree	1009·8	+16	SSW	3	c	55	92	7	5	3	−	4-6	7-8	1800
13B	Stornoway	1009·3	+20	S	4	pr	53	92	6	8	7	−	7-8	10	1200
15	Dalwhinnie	*	+18	SSE	4	c	50	92	6	8	5	−	4-6	7-8	2500
	Aberdeen	1014·2	+16	S'E	4	c	56	85	6	5	−	9	9	9+	800
	Wick	1011·6	+12	S	5	c	54	85	6	5	7	8	4-6	9+	1500
16	Lerwick	1015·1	+10	SSE	7	o	51	97	6	5	−	−	10	10	450
17	Blacksod Point	1004·8	+12	SE	1	c	54	92	7	−	4	−	0	9+	−
18	Malin Head	1009·9	+16	S	1	c	55	85	7	4	6	−	2-3	7-8	4000
	Aldergrove	1011·1	+10	S'E	2	c	55	75	7	8	4	−	9	9+	3500
19	Birr Castle	1009·8	+6	S	1	c	56	85	8	5	−	−	9+	9+	2500
20	Valentia Obsy. †	1008·9	−2	S	3	c	59	75	8	8	3	−	4-6	7-8	2500
	Roches Point	1009·9	+4	S	2	bc	59	85	8	2	−	1	2-3	4-6	2500

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. (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)	1008·6	−12	E	3	rr	55	92	4	6	2	−	7-8	10	1500	1	*
Croydon	1008·8	−14	ESE	2	rr	54	97	4	−	2	−	10	10	800	1	*
S. Farnborough	1008·0	−12	E	3	rr	54	97	5	6	2	−	7-8	10	700	1	*
Boscombe Down	1006·7	−12	E'N	3	roro	53	97	4	6	2	−	7-8	10	500	1	*
Calshot (Soton.)	1006·8	−14	SE'S	5	ror	56	97	4	6	−	−	10	10	500	1	4
Lympne	1011·2	−16	E	1	iro	56	92	5	−	2	−	10	10	1500	1	§2
Manston	1008·5	−34	E	3	zo	58	85	5	−	7	−	0	10	−		*
Shoeburyness	1010·0	−14	ESE	1	c	55	92	5	5	2	−	9+	10	4000	0	*
Felixstowe	1010·4	−18	ESE	4	zo	57	92	5	5	−	−	10	10	4500	1	1
Gorleston	1011·9	−8	ESE	4	c	57	85	5	5	−	−	7-8	7-8	800	0	3
Mildenhall	1010·0	−16	E	3	zo	57	85	6	5	−	−	10	10	3000	0	*
Cranwell	1012·0	−6	E	2	of+	54	97	3	5	−	−	10	10	1800	1	*
Birmingham	1009·9	−10	ENE	3	rf	55	92	3	6	−	−	10	10	450	1	*
Upper Heyford	1008·9	−10	E'N	2	rr	54	97	6	6	2	−	9	10	800	1	*
Ross-on-Wye	1008·6	−12	NNE	3	roro	53	97	5	6	−	−	10	10	800	1	*
Hartland Point	1008·4	−4	NE	3	c	55	92	8	8	−	−	7-8	7-8	2000	1	3
Bristol	1007·1	−20	N'E	3	rf	54	97	3	−	2	−	10	10	400	1	*
Portland Bill	1005·7	−20	NNW	3	c	55	92	7	5	−	−	10	10	2500	1	3
Plymouth	1008·0	+4	N'E	1	c/r	56	85	5	8	7	−	4-6	9+	1600	1	1
The Lizard	1008·9	+6	NW	2	c	53	92	8	8	6	−	7-8	7-8	2000	1	2
Scilly (St. Mary's)	1009·3	+6	N'E	2	bc	55	92	8	8	4	−	4-6	4-6	1800	1	2
Guernsey																
Pembroke	1010·1	−2	N'W	4	c/r	54	85	7	8	7	−	4-6	9	1600	1	2
Holyhead	1011·0	−2	NE'N	3	c	55	97	6	8	8	6	Tr	7-8	3000	1	1
Chester (Sealand)	1011·1	−10	NW	1	c	54	85	6	5	2	−	7-8	10	3500	1	*
Manchester	1011·5	−8	NE	3	rf	57	85	3	5	2	−	7-8	10	2400	1	*
Spurn Head	1012·1	−4	E'N	4	c	55	92	6	5	−	−	9	9	4000	0	3
Catterick	1013·6	−6	N	1	pro	53	97	4	5	7	−	9	9+	4000	0	
Tynemouth	1015·1	+4	SSE	3	c	54	92	6	8	3	−	4-6	7-8	3200	1	2
St. Abbs Head	1003·6	+4	SE	3	zo	53	97	5	5	2	−	7-8	10	2000	0	2
Leuchars	1014·9	+10	ESE	1	zo	52	97	5	5	7	2	4-6	7-8	2800	0	*
Renfrew (Abbots I.)	1013·8	+10	ESE	1	m	51	85	4	8	3	4	2-3	4-6	3000	1	*
Eskdalemuir	1014·3	+8	N	1	zo	50	85	6	5	1	6	4-6	9+	2500	1	*
Point of Ayre	1012·5	0	E'N	1	bc	54	97	8	4	4	1	2-3	4-6	2500	1	1
Tiree	1012·0	+10	S'E	1	c	51	92	7	5	−	−	9+	9+	3500	0	2
Stornoway	1012·6	+20	SW	3	c/pr	52	92	7	8	6	7	2-3	10	2000	1	2
Dalwhinnie	x	+16	NW	1	c	48	85	8	4	5	−	4-6	7-8	4000	1	*
Aberdeen	1016·1	+12	S	2	c	53	97	5	5	9	−	9+	9+	800	1	2
Wick	1014·4	+16	SSE	4	c	53	92	6	5	7	2	4-6	7-8	2500	1	2
Lerwick	1016·9	+12	S'E	7	c	51	97	6	5	2	−	7-8	10	450	1	*
Blacksod Point	1010·7	+10	ESE	2	bc	50	92	7	−	4	−	0	4-6	−	0	1
Malin Head	1011·5	+8	E	1	zo	53	85	6	5	8	−	4-6	7-8	1500	0	1
Aldergrove	1012·3	+10	ESE	2	bc	50	92	7	5	3	2	Tr	4-6	1000	1	*
Birr Castle	1010·4	+8	N	1	bc	52	92	8	5	−	−	4-6	4-6	2500	1	*
Valentia Obsy. †	1010·2	+10	S'E	2	b	53	85	8	5	−	−	1	1	2500	1	1
Roches Point	1010·5	+6	SSW	2	bc	54	92	8	5	−	−	2-3	2-3	2500	1	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 16th (37)	Weather 13h.—18h. 16th (38)	Weather 18h 16th to 1h. 17th (39)	Weather 1h.—7h. 17th (40)
London (Kew)	cfwcmo	crorr	crrrocroc	cmo
Croydon	c	cmorrmv	RRfbc	bccmo
S. Farnborough	bcmoc	roro rrc	rrRroc	cbcrofc
Boscombe Down	cofc	circrr	crrbcmoc	
Calshot (Soton.)	cmocrrm	oroorrm	orrd	bmob,cmo
Lympne	c⊕cmo	cmo	cmrrcmo	cmobbc
Manston	ccmo⊕	cmo	cmcrfcbo	bbc
Shoeburyness	cmo	iromoc	irorr	rrbcc
Felixstowe	cmo	cmo	ororRRmo	b,ciro
Gorleston	c	czozo	corrq	orcbc
Mildenhall	cmowcmoc	ccmo	cmoiror	cbcbmo
Cranwell	bcc	ccmo,cf	cf,RRf	RRfdfF
Birmingham	omc	cofro	orr	orro
Upper Heyford	cfcmoc	crororrmo	crrmf	
Ross-on-Wye	bccpoc	cormoroo	rrm	roo
Hartland Point	c	c	cbcc	bbccw
Bristol	cfcirmo	cror rrff	orrfircm	cfdodomi
Portland Bill	orr	orr	cc	
Plymouth	cbccir	circidocmo	cmobmow	bmobmW
The Lizard	cprc	cproc	bbcw	bcw
Scilly (St. Mary's)	bccbc	bc	bRbc	bcW
Guernsey				
Pembroke	c	cbc iroc	bc	cmobc
Holyhead	bc	cmobc	bcmoroc	como
Chester (Sealand)	bc	cmo	ororomo	ororocmo
Manchester	c	cmfroro	frororrR	cmroromo
Spurn Head	c	bc	prrr	
Catterick	ofmmo	cmoc	proirocm	mRRf
Tynemouth	bbc	bccmo	cpro	orr
St. Abbs Head	bcmoc	cmo	omrof	Forr
Leuchars	bcc	cmo	cmocirorrrm	roromoido
Renfrew (Abbots I.)	ciromoc	cmoFr pro	bccffro	cfrRiro
Eskdalemuir	cbc	bccmo	croro	corr
Point of Ayre	cbc	cbc	ciro	crr
Tiree	c	c	c	cbc
Stornoway	cpr	cpr	c	
Dalwhinnie	cprc	cbcc		
Aberdeen	iroc	bccmo	omoro	ciroq ororof
Wick	cmo	cmo	bcmoc	dscmo
Lerwick	cdme	dcmo	cmo	coirmo
Blacksod Point	c	bc	b	c
Malin Head	c	zo	cbbc	bcbc
Aldergrove	cmoczoc	cprocbc	bfgFe	
Birr Castle	c	cbc	b	off
Valentia Obsy. †	bccbc	bcvb	bbw	bw
Roches Point	czobc	bc	FFe	FFe

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.*

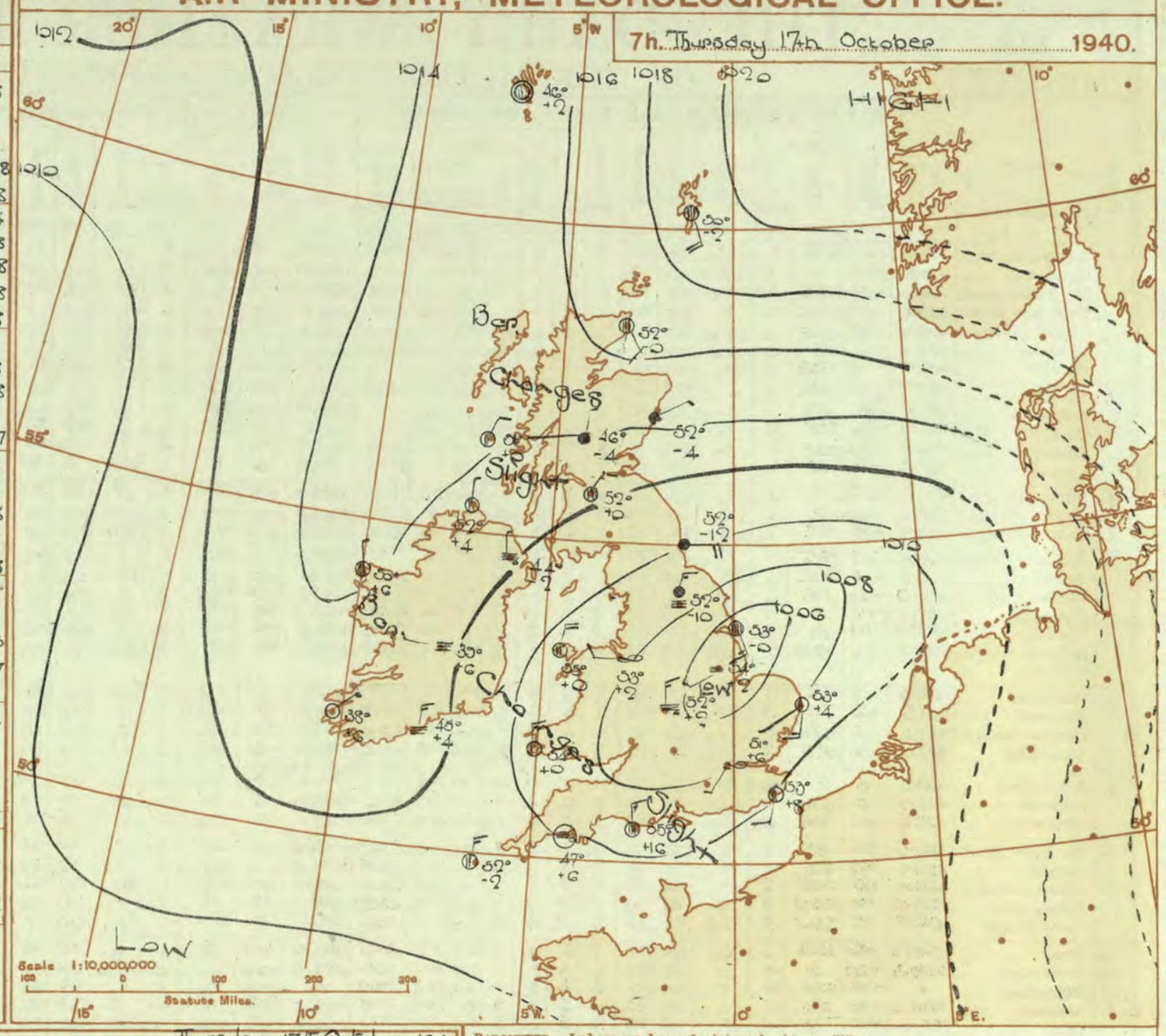
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 17th October 1940.

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	59		05641	46525	57		05569	15414	5-		57318	12318	5-		08538	10128
115	52		02844	20426	52		02844	20387	71		01861	08123	71		01884	08115
203					84		01844	12364								
206	86		25754	15384	43		02864	00015	50		00663	00013	02		51628	00068
210	54		02855	16527	57		02864	15327	5-		02767	08227	52		62646	00068
220	57		02843	21315	52		03754	18227					57		01852	00014
230	8-		63748	16368	86		01744	00085	50		01663	04113	52		62754	00068
245	83		05653	16326	51		08455	14328	5-		67818	08368	02		62428	04368
260	77		02955	16316	04		05690	10114	02		63428	06268	5-		62428	04268
277	27		02846	15387	46		02763	08226	57		05663	04128	52		61646	32268
279					--		05663	02228								
285	23		02635	14317	5-		03538	04428					6-		64538	06468
288	52		01752	14660	5-		05668	06128	5-		05558	07428	5-		45828	03368
273																
301	07		05690	14325	57		47274	00048	62		64548	04168	57		22654	06367
321	13		05653	09145	52		05544	08228	6-		64438	04368	6-		52538	31468
299	57		05644	16314					5-		67338	08468	6-		22548	08568
292	5-		05637	12127	5-		02758	04128	52		62437	08368	62		62527	02268
310	--		02628	08428	--		02428	04328								
316	57		01643	08224	5-		05548	04268	02		64438	02368	62		52425	30368
333	23		01862	16114	50		01863	32113	52		05654	04228	62		62644	24168
334																
340	5-		05565	14115	52		62445	04268	02		64428	32268	53		05523	32265
136	17		05664	10227	57		05662	08318	52		62526	03368	53		05626	16367
336	--		02853	16516									--		02853	32415
350	53		02754	08425	62		64528	04368					53		05644	18324
368																
379	13		02754	10327	6-		64538	08368	5-		64438	08468	5-		08428	32128
390	57		05645	08427	5-		61438	08268	5-		48348	10268	5-		08447	15117
382	73		05654	07226	62		64537	05268	62		61436	00068	5-		05648	18228
438	02		03638	06428									8-		02746	23486
430	57		63645	08368	6-		64528	08468	50		05654	00014	5-		05638	24328
409	88		02854	04227	84		01754	02215	50		05655	30205	5-		05746	29316

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 17th October, 1940
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light SW-W wind, becoming variable. Bright intervals and local showers at first, becoming mainly fair or fine, but fog night and morning, Average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light or moderate northerly wind, backing N.W.; cloudy, with occasional rain at first, bright intervals and showers later; average temperature
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light northerly wind, becoming variable; bright intervals and local showers today, becoming fair; local fog at night; average temperature
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate E. to N.E. wind, backing N.E. to N.; mainly overcast, with periods of continuous rain; fog patches on East Coast; average temperature.
13 { A. W. Scotld. B. N.W. Scotland.	Light easterly wind, backing N.E. to N., moderate; fair at first, intermittent rain later; fog patches on East Coast; average temperature.
14 Mid Scotland 15 N. E. Scotland	As 7-12.
16 Orkneys and Shetlands 17 N. W. Ireland	Moderate S.E. wind, backing E., fresh; cloudy, occasional rain later; average temperature.
18 N. E. Ireland 19 S. E. Ireland	Light northerly or variable wind; mainly fair; fog inland at night; average temperature.
20 S. W. Ireland	As 5-6

GENERAL INFERENCE.

A depression centred near the Wash is moving slowly N.N.E., and a feeble ridge of high pressure over Ireland is spreading to Southern England. Weather will be mainly fair in the South, but there will be some scattered showers, and fog will occur in many places night and morning. In the North there will be widespread rain.

FURTHER OUTLOOK.

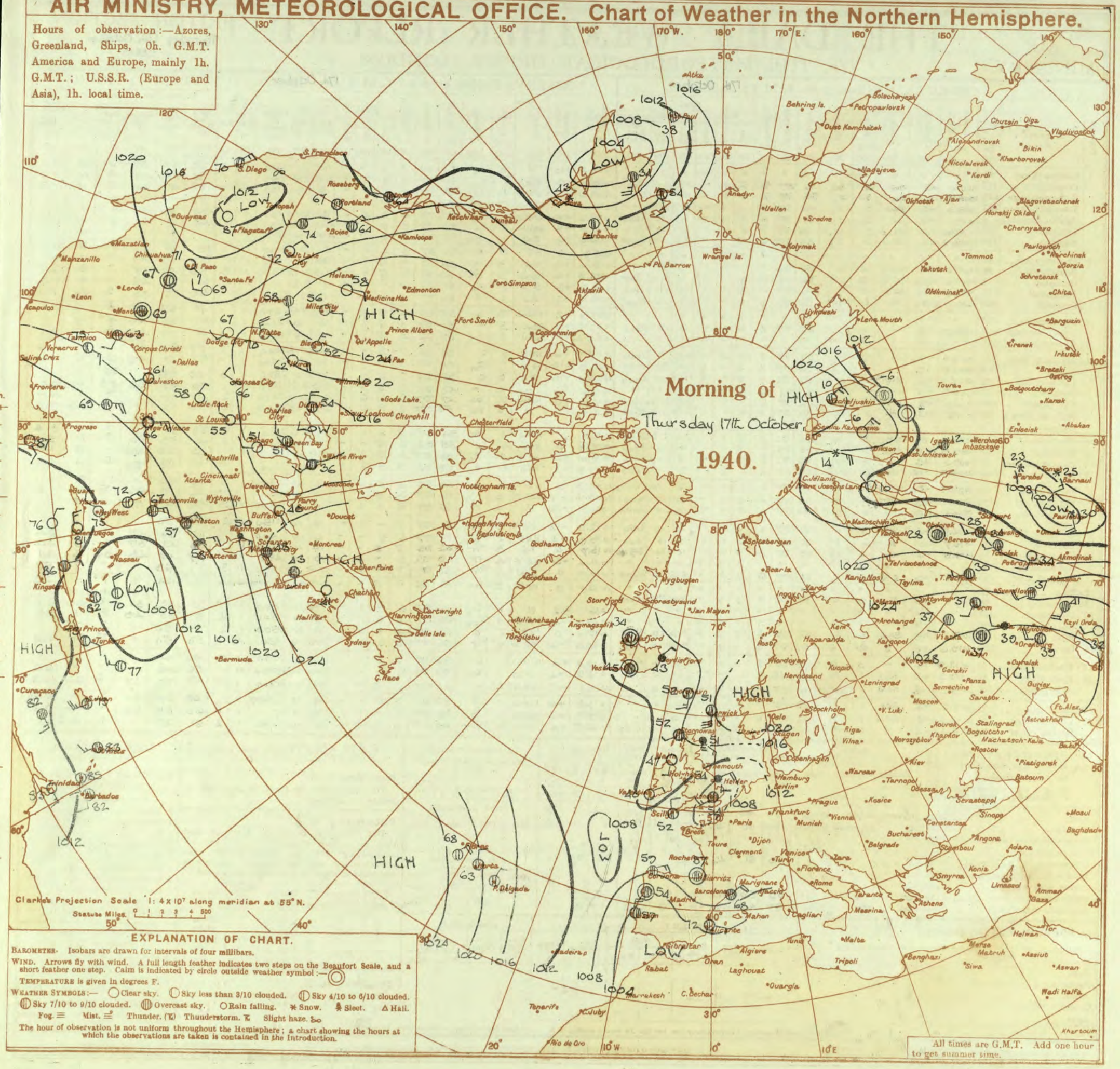
Unsettled.

Forecasts issued at 1030h G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 17th October 1940.

No. 28819

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	1007.1	+2	SW	3	bc	54	97	6	5	3	-	2-3	4-6	1200
	S. Farnborough	226	1006.7	0	SW	3	z_o	53	97	6	5	7	-	9	10	3000
	Boscombe Down	417	1006.5	+6	SSW	3	z_o	49	97	7	-	4	-	0	2-3	–
	Calshot (Sthmtn.)	8	1007.1	+6	W	2	z_o	51	92	6	5	4	-	Tr	Tr	2000
	Lympne	346	1009.0	+4	SSW	2	z_o	55	97	6	5	-	-	10	10	1200
	Manston	154	1008.5	+8	SSW	3	z_o	53	97	6	5	-	-	4-6	4-6	3000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1007.0	-10	SW'S	4	b	56	92	7	-	-	-	0	0	–
	Gorleston	5	1007.6	-24	SE'S	5	rr	56	92	6	6	-	-	10	10	800
	Mildenhall	19	1005.6	-20	SE'S	3	c/r	56	97	6	5	-	-	9+	9+	800
	Cranwell	240	1007.0	-30	NE	4	RR	54	97	3	6	-	-	10	10	600
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1006.9	-8	-	0	$r_o r_o$	52	97	3	5	-	-	10	10	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1008.8	+6	N	3	c	55	92	8	5	4	-	4-6	9	2000
	Bristol	209	1006.5	+6	-	0	cf	52	97	3	5	-	-	9+	9+	1300
	Portland Bill	32	1007.0	+4	SW	4	c	54	92	7	5	-	-	10	10	4000
	Plymouth	82	1009.3	+10	NNW	1	z_o	51	92	6	-	4	-	0	Tr	–
	The Lizard	240	1010.6	+8	NNW	3	bc	48	97	8	1	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1011.2	+12	N	2	bc	52	97	7	5	-	-	2-3	2-3	1800
	Guernsey	175														
6	Pembroke	142	1009.9	0	NNW	3	bc	54	92	7	5	-	-	2-3	2-3	2500
7	Holyhead	26	1009.9	-8	NNE	3	c	55	92	7	5	-	-	10	10	3200
	Chester (Sealand)	16	1009.2	-6	N	2	$r_o r_o$	54	97	5	-	2	-	10	10	1200
8	Manchester	70	1008.9	-14	NNE	2	$r_o r_o$	55	97	4	6	2	-	9+	10	1200
10	Spurn Head	29	1007.9	-20	ENE	4	RR	54	97	6	6	-	-	10	10	<150
	Catterick	175	1011.0	-16	NE	2	m	53	97	4	5	-	-	10	10	400
	Tynemouth	108	1014.4	-10	ESE	4	p/pr	52	97	6	5	-	-	10	10	3000
11	St. Abbs Head	280	1014.8	-4	SE	3	F	51	97	1	-	-	-	10	10	<150
	Leuchars	36	1015.7	0	E	2	ir_o	52	97	4	6	-	-	10	10	400
12	Renfrew (Abbots I.)	19	1014.3	-4	–	0	rf	45	97	3	5	-	-	10	10	3500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1011.6	-6	E'N	4	ir_o	54	97	6	6	2	-	4-6	10	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1016.1	+8	SW	1	c	52	92	7	5	7	-	7-8	9+	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1017.1	+8	SSE	3	c	53	97	6	5	2	-	7-8	10	800
16	Lerwick	156	1019.6	+6	S	6	c	51	97	6	5	2	-	7-8	10	450
17	Blacksod Point	18	1012.9	+4	–	0	b	48	97	8	-	-	-	0	0	–
18	Malin Head	84	1003.3	+2	S'W	1	b	47	85	8	-	-	-	0	0	–
	Aldergrove	268	1013.1	-2	NNE	1	bF–	46	97	1	-	-	-	0	0	–
19	Birr Castle	173	1012.2	+4	ENE	1	b	39	97	7	-	-	-	0	0	–
20	Valentia Obsy.	30	1012.6	+2	NE'E	1	b	40	97	8	-	-	-	0	0	–
	Roches Point	22	1012.1	+2	N	3	F	48	97	1	5	-	-	10	10	<150

OBSERVATIONS at 7 hr. G.M.T. 17th 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)	1008.2	+10	–	0	z_o	51	92	5	5	-	-	10	10	1500	1	*
Croydon	1007.9	+6	SW	1	z_o	51	97	5	5	3	-	4-6	7-8	2000	1	*
S. Farnborough	1008.5	+12	WSW	1	id_o	51	97	6	5	-	-	10	10	700	1	*
Boscombe Down																*
Calshot (Sthmtn.)	1008.6	+16	WNW	1	z_o	51	92	6	8	4	-	9+	9+	1700	1	1
Lympne	1010.0	+8	SSW	2	bc	53	92	8	8	-	1	4-6	4-6	900	1	§1
Manston	1009.6	+6	SW	2	bc	53	92	7	8	-	1	4-6	4-6	2500	*	*
Shoeburyness	1008.8	+8	S'E	3	c	54	97	8	4	-	-	9	9	4000	1	*
Felixstowe	1008.4	+10	SW	3	ir_o	54	92	7	5	-	-	9+	9+	1800	1	1
Gorleston	1008.5	+4	SSW	3	bc	53	92	6	5	-	-	2-3	2-3	2500	1	3
Mildenhall	1006.9	+8	S'W	3	z_o	51	92	6	-	7	3	0	2-3	–	1	*
Cranwell	1005.4	+2	SW	1	F	54	97	·1	-	-	-	10	10	<150	1	*
Birmingham	1007.3	+2	NNW	3	m	52	97	4	5	7	-	7-8	7-8	800	1	*
Upper Heyford	1007.5	+6	SSW	3	m	50	97	4	5	-	-	10	10	200	1	*
Ross-on-Wye	1008.3	+8	NW'N	2	o	53	92	6	5	-	-	10	10	1500	1	*
Hartland Point	1009.7	+6	NNE	3	c	55	92	7	8	-	-	7-8	7-8	2000	1	2
Bristol	1008.9	+16	W'N	1	z_o	51	97	6	5	-	-	9+	9+	2300	1	*
Portland Bill	1009.0	+16	N	3	c	55	92	7	5	-	-	10	10	2500	1	3
Plymouth	1010.2	+6	–	0	m	47	97	4	5	-	-	2-3	2-3	1500	0	1
The Lizard	1010.9	+8	NNW	3	bc	47	97	8	8	6	-	4-6	4-6	2500	1	2
Scilly (St. Mary's)	1011.0	-2	N	3	bc	52	97	8	5	4	-	2-3	2-3	1500	1	2
Guernsey																
Pembroke	1010.0	0	NNW	3	bc	54	97	7	8	-	-	4-6	4-6	2000	1	2
Holyhead	1009.8	0	NNE	4	c	55	92	6	5	-	-	10	10	600	1	2
Chester (Sealand)	1008.6	+2	W'N	2	z_o	53	97	5	5	7	-	7-8	10	2200	1	*
Manchester	1007.9	+2	N'W	3	z_o	53	92	6	5	3	2	4-6	9+	2200	1	*
Spurn Head	1004.3	0	SE	3	of	53	97	6	5	-	-	10	10	2500	1	3
Catterick	1008.6	-10	NE'N	3	rf	52	97	3	5	-	-	10	10	300	1	*
Tynemouth	1011.5	-12	E	4	rr	52	97	6	-	2	-	10	10	2500	1	3
St. Abbs Head	1012.5	-12	NE	3	F	51	97	1	-	-	-	10	10	<150	1	2
Leuchars	1013.9	-4	NNE	2	$r_o r_o$	52	97	4	5	-	-	10	10	400	1	*
Renfrew (Abbots I.)	1013.7	0	NE	3	o/r	52	85	7	5	-	-	10	10	900	1	*
Eskdalemuir	1011.4	-6	NE'E	4	rr	49	92	6	-	2	-	10	10	450	1	*
Point of Ayre	1010.7	0	E'N	4	c/r	53	97	7	8	2	-	7-8	10	1500	1	3
Tiree	1014.1	0	NE'N	2	bc	51	92	8	5	-	-	2-3	2-3	2800	0	2
Stornoway																
Dalwhinnie	1016.1	-4	N	1	ir_o	46	97	6	5	1	-	7-8	10	800	1	*
Aberdeen	1015.4	-4	NE'E	1	$r_o r_o$	52	97	2	6	-	-	10	10	800	1	2
Wick	1017.0	0	SE	2	c	52	97	6	5	2	-	9	10	1500	1	2
Lerwick	1019.6	-2	SE'S	4	c/r	50	97	6	8	2	-	7-8	10	450	1	*
Blacksod Point	1014.2	+6	N'W	1	c	50	97	7	5	-	-	10	10	<150	0	2
Malin Head	1013.5	+4	N	1	bc	52	92	8	2	-	-	4-6	4-6	5700	0	1
Aldergrove	1013.1	-2	NNW	1	m	44	97	4	5	7	-	7-8	9+	1200	1	*
Birr Castle	1013.3	+6	WNW	1	f	39	97	3	5	-	-	10	10	2500	1	*
Valentia Obsy.	1013.3	+6	NE'E	1	b	38	97	8	-	-	-	0	0	–	1	1
Roches Point	1012.7	+4	N	3	f–	45	97	3	5	-	-	10	10	<150	1	2

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 16th Hrs. (36)
London (Kew)	59	49	39	6	10	0.0
Croydon	58	50	48	5	10	0.0
S. Farnborough	62	48	40	2	12	1.8
Boscombe Down	57			10		
Calshot (Sthmtn.)	58	50	47	11	1	0.1
Lympne	58	51	44	Tr	13	0.2
Manston		*	*		*	*
Shoeburyness	58	51	42	Tr	8	0.0
Felixstowe	59	53	49	–	11	1.1
Gorleston	59	52	47	–	8	2.1
Mildenhall	61	51	45	–	4	0.4
Cranwell	62	53	53	2	20	1.0
Birmingham	58	52	49	1	12	0.1
Upper Heyford	61	50	48	4	15	*
Ross-on-Wye	56	52	48	6	17	0.1
Hartland Point	57	54	51	–	–	1.4
Bristol	57	51	49	13	5	0.0
Portland Bill	59	53	*	20	–	*
Plymouth	58	45	36	0.3	–	0.5
The Lizard	57	47	*	Tr	–	0.7
Scilly (St. Mary's)	59	52	*	–	0.3	7.3
Guernsey						
Pembroke	62	51	*	1	–	3.4
Holyhead	61	53	50	–	Tr	5.6
Chester (Sealand)	59	53	50	–	9	1.9
Manchester	60	53	50	Tr	11	2.0
Spurn Head	56	52	*	–	9	3.1
Catterick	56	52	52	Tr	9	0.5
Tynemouth	56	52	51	–	9	*
St. Abbs Head	58	50	*	–	2	*
Leuchars	60	50	49	–	2	0.8
Renfrew (Abbots I.)	58	42	37	6	3	0.2
Eskdalemuir	57	47	43	0.1	6	4.1
Point of Ayre	60	53	*	–	2	5.6
Tiree	56	44	*	1	–	0.2
Stornoway			*	1		
Dalwhinnie	51	42	31	2	0.6	0.1
Aberdeen	57	50	49	Tr	1	3.5
Wick	55	50	*	–	Tr	*
Lerwick	53	50	*	Tr	Tr	0.0
Blacksod Point	58	44	*	–	–	*
Malin Head	56	44	*	–	–	0.2
Aldergrove	58	39	35	Tr	0.1	1.4
Birr Castle	59	37	34	–	–	0.9
Valentia Obsy.	60	38	33	–	Tr	7.9
Roches Point	61	45	*	1	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	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	$cfwcm_o$	cr,rr	$crrrcm_o$	69	49	39	6	10	0.0	*	*	5
Croydon	217	c	$cm_o rrmv$	$RRfbcm_o$	58	50	48	5	10	0.0	*	*	6
Greenwich (Royal Observatory)	149												
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	59	51	46	21		0.0	88	95	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110			*					*		*		*
Kensington	80	cr	*	*	59	50	42	4	9		97	93	*
Hampstead Observatory	450	bc	ar	orm	57	49	44	–	25	0.0	*	98	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 17th

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0.6	9-10h 16th	<0.1	1-6h 17th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome														

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ 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 18th October 1940.

No. 28820

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)...	1009.9	+4	SW'S	2	z_0	57	85	6	5	-	-	1	1	1500
	Croydon ...	1010.2	+10	W	1	z	58	85	6	4	-	-	4-6	4-6	3000
	S. Farnborough	1009.9	+2	SW'W	3	z_0	59	75	6	1	-	-	2-3	2-3	2000
	Boscombe Down	1010.1	+4	WNW	2	bc	58	75	6	8	-	-	4-6	4-6	2400
	Calshot (Soton.)	1010.1	-2	-	0	c	59	85	7	5	-	-	9+	9+	1900
	Lympne ...	1011.0	+2	S	2	c	58	85	8	8	-	-	9+	9+	2500
	Manston ...	1010.5	+2	SW	4	c	59	85	8	8	-	-	9+	9+	1800
2	Shoeburyness ...	1010.1	+4	SW'W	1	c	60	75	6	8	-	-	9	9	2500
	Felixstowe ...	1009.4	+2	SW'S	4	c	59	85	7	8	-	-	9+	9+	1800
	Gorleston ...	1009.3	+4	SSW	3	bc	57	85	7	2	-	-	4-6	4-6	2600
	Mildenhall ...	1009.0	+10	SW'S	3	z_0	55	85	6	5	2	-	9+	10	1000
	Cranwell ...	1008.7	+16	WNW	3	z_0	54	92	5	5	-	-	10	10	600
3	Birmingham	1009.5	+4	WNW	3	c	58	75	6	8	-	-	7-8	7-8	2500
	Upper Heyford	1009.2	+6	WNW	3	bc	59	75	7	8	-	-	4-6	4-6	2200
4	Ross-on-Wye ...	1009.5	0	SW	1	c	62	75	8	8	-	-	7-8	7-8	2500
5	Hartland Point	1010.9	+2	N	2	c	56	92	7	8	6	-	4-6	7-8	1500
	Bristol ...	1010.6	+4	WSW	1	c	60	75	7	3	3	-	9	9+	2200
	Portland Bill ...	1010.1	+2	WNW	2	c	59	85	8	5	-	-	7-8	7-8	4000
	Plymouth ...	1010.4	-4	NNW	3	bc	60	65	8	2	-	1	2-3	2-3	2500
	The Lizard ...	1010.7	-10	NNE	2	bc	61	75	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1012.1	0	ESE	2	bc	57	85	8	8	4	4	4-6	4-6	1500
	Guernsey ...														
6	Pembroke ...	1011.3	*	N	4	z_0	57	85	6	2	-	-	4-6	4-6	2000
7	Holyhead ...	1010.8	+4	N'W	4	c	55	92	7	5	-	-	10	10	1500
	Chester (Sealand)	1009.5	+2	NW'W	3	c	57	85	7	7	-	-	9	9	3500
8	Manchester ...	1008.9	+6	WNW	3	z_0	57	85	6	5	3	-	7-8	9	2000
10	Spurn Head ...	1006.7	+2	SW'S	4	o	55	97	6	5	-	-	10	10	1500
	Catterick ...	1008.2	-2	N	2	d_0d_0	53	92	5	6	2	-	9+	10	400
	Tynemouth ...	1009.3	-8	NE	5	o	52	97	6	-	2	-	10	10	2000
11	St. Abbs Head	1011.1	-10	NE	3	r_0r_0	51	97	4	5	-	-	10	10	800
	Leuchars ...	1012.6	-6	NE	2	r_0r_0	52	97	5	6	-	-	10	10	500
12	Renfrew (Abbots I.)	1012.8	-2	N	1	r_0r_0	53	92	7	5	2	-	9+	10	1500
	Eskdalemuir ...	1010.4	-4	NE'E	3	c	53	85	6	5	-	-	10	10	800
	Point of Ayre ...	1010.9	0	N	3	ir_0	55	97	7	5	7	-	2-3	9+	2500
13A	Tiree ...	1014.0	0	NNW	2	c	53	92	7	5	-	-	9	9	2800
13B	Stornoway ...	1015.6	-10	-	0	b	54	75	7	1	3	-	Tr	1	2500
15	Dalwhinnie ...	*	-8	ENE	2	o	49	92	3	5	-	9	10	10	800
	Aberdeen ...	1013.7	-10	E	2	ir_0	51	97	6	6	-	-	10	10	800
	Wick ...	1015.4	-12	SE	3	d_0d_0	51	97	5	5	-	-	10	10	800
16	Lerwick...	1018.7	-8	SE'S	4	c	50	92	6	5	2	-	7-8	10	800
17	Blacksod Point	1014.9	+2	NW	2	bcjp	56	85	7	3	-	-	2-3	2-3	2500
18	Malin Head ...	1013.6	+2	N	1	z_0	55	85	6	4	7	-	4-6	7-8	1500
	Aldergrove ...	1012.9	-2	NNW	1	z_0	54	85	6	5	-	-	9	10	1600
19	Birr Castle ...	1014.2	0	SW	1	of-	47	97	3	5	-	-	10	10	2500
20	Valentia Obsy. †	1014.1	-2	N	3	b	57	75	9	1	-	-	1	1	2500
	Roches Point ...	1013.5	0	N'W	3	bc	54	92	7	1	-	-	2-3	2-3	2500

OBSERVATIONS at 18h. G.M.T. 17th. 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)	1011.8	+16	S'W	2	z_0	55	85	6	5	-	-	10	10	1500	1	*
Croydon	1011.6	+12	-	0	z_0	53	92	5	5	-	-	4-6	4-6	4000	1	*
S. Farnborough	1011.8	+16	S'E	2	m	56	92	4	5	3	-	4-6	9+	3000	1	*
Boscombe Down	1011.2	+10	NNE	1	z_0	56	85	6	4	-	-	9	9	3000	0	*
Calshot (Soton.)	1011.4	+10	-	0	z_0	53	92	6	5	-	-	1	1	7200	1	0
Lympne	1012.8	+14	SSW	1	z_0	53	97	6	-	7	-	0	2-3	-	1	§
Manston	1012.4	+10	SSW	1	z_0	49	92	6	4	-	-	1	1	3000		*
Shoeburyness	1011.9	+12	SW	1	m	52	92	4	4	-	-	2-3	2-3	5700	1	*
Felixstowe	1011.7	+14	SW	2	z_0	54	92	5	5	-	1	Tr	Tr	4000	1	1
Gorleston	1011.0	+12	SSW	2	c	57	85	6	5	-	-	10	10	1500	1	2
Mildenhall	1010.8	+14	SW'S	2	m	56	92	4	5	-	-	9+	9+	2000	1	*
Cranwell	1010.5	+16	WNW	2	z_0	53	92	6	5	-	-	10	10	300	1	*
Birmingham	1011.6	+14	NW	2	z_0	54	85	5	-	-	-	0	0	-	1	*
Upper Heyford	1011.4	+16	-	0	z_0	56	85	6	4	6	-	4-6	4-6	2500	1	*
Ross-on-Wye	1011.6	+10	SW	1	bc	54	85	7	5	-	-	2-3	2-3	4000	1	*
Hartland Point	1011.6	+8	NNE	3	z_0	56	92	7	7	-	6	4-6	7-8	1500	1	2
Bristol	1011.5	+6	-	0	z_0	56	92	6	6	-	-	4-6	4-6	5700	1	*
Portland Bill	1012.8	+6	S	2	bc	57	85	8	5	-	-	2-3	2-3	4000	1	2
Plymouth	1011.4	+10	N	2	z_0	57	75	6	4	-	4	2-3	4-6	3500	0	1
The Lizard	1011.4	+4	N	2	bc	53	92	7	4	-	-	4-6	4-6	2000	0	2
Scilly (St. Mary's)	1012.3	+2	NNE	3	c	54	85	6	5	-	-	9+	9+	1500	1	2
Guernsey																
Pembroke	1012.7	+6	N'E	2	c	54	92	7	8	1	-	4-6	7-8	2000	1	2
Holyhead	1012.2	+12	NW'N	3	c	55	92	7	5	-	-	10	10	3000	1	2
Chester (Sealand)	1011.2	+12	W'N	2	bc	53	92	5	5	3	-	1	2-3	800	1	*
Manchester	1010.8	+14	NW'W	2	m	49	97	4	5	-	-	2-3	2-3	3600	1	*
Spurn Head	1008.9	+6	W'S	4	c	54	92	6	5	4	-	7-8	10	2500	1	3
Catterick	1009.8	+12	NW'N	2	z_0	54	85	6	5	2	-	9+	10	2000	1	
Tynemouth	1010.6	+12	N	4	o/r	52	97	6	-	2	-	10	10	1200	1	3
St. Abbs Head	1011.0	+2	NNE	3	r_0r_0	51	97	5	5	-	-	10	10	1000	1	3
Leuchars	1012.3	+2	N	1	z_0	51	97	5	6	2	-	7-8	10	500	1	*
Renfrew (Abbots I.)	1013.1	+4	NW	1	ir_0	52	97	5	5	7	-	9+	10	2000	1	*
Eskdalemuir	1011.5	+6	NNE	3	c/d	50	92	6	5	2	-	4-6	9	1500	1	*
Point of Ayre	1011.7	+6	N	3	c	55	97	7	6	-	-	9+	9+	1500	1	2
Tiree	1014.5	+2	N	2	b	52	92	8	5	4	-	Tr	1	3500	0	2
Stornoway	1015.9	0	NNW	1	b	47	97	6	5	4	-	Tr	1	2500	1	1
Dalwhinnie	1013.5	-2	N	1	id_0	49	92	5	5	-	-	10	10	800	1	*
Aberdeen	1012.5	-6	NNE	2	r_0r_0	50	97	5	6	-	-	10	10	800	1	2
Wick	1015.1	-2	ESE	3	c	50	97	6	5	2	-	7-8	10	800	1	2
Lerwick	1017.9	-4	SSE	4	id_0	49	92	6	5	2	-	7-8	10	800	1	*
Blacksod Point	1015.0	+6	N	2	bc	53	97	7	-	4	-	0	2-3	-	0	1
Malin Head	1014.0	+4	N	3	z_0	53	85	6	8	-	-	9+	9+	1500	0	3
Aldergrove	1013.6	+8	NW'N	2	z_0	53	92	6	5	-	-	10	10	3000	1	*
Birr Castle	1014.8	+8	SSW	1	bc	47	97	7	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy. †	1014.2	+2	E	1	b	51	92	8	5	-	5	Tr	1	1500	1	1
Roches Point	1013.8	+2	N	3	bc	53	85	8	5	-	4	2-3	4-6	2500	1	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 17th. (37)	13h.—18h. 17th. (38)	18h. 17th to 1h. 18th (39)	1h.—7h. 18th. (40)
London (Kew)	bccbcbm₀	bbccm₀	cbccwmf	foFF
Croydon	cbcm	bcbm₀	b	f
S. Farnborough	cbccp₀bc	bcz₀cm	bf	bFFep
Boscombe Down	cmbc	cm₀	bcm₀Fbif	biFoF
Calshot (Soton.)	cmcbcm	cbbm₀w	bmFFw	bFFwbc
Lympne	bcc	c	bFFmfg	bm₀FF
Manston	cidc	cbcb	bm₀Ff	bFcf
Shoeburyness	bm₀cm₀	cbmbcm	bcmbm	bmFFz
Felixstowe	cidbc	cmbm₀	bmcmbm₀	bmFF
Gorleston	bccpr₀	bcc	cbcz₀	bccoFfc
Mildenhall	bbcmcm	cmcm	cmbmbfw	bfFFcw
Cranwell	d₀d₀frm	cbm₀cm₀	cm₀,bf	bff, cm₀
Birmingham	c	cbz	bm	bf
Upper Heyford	cidmcmc	bbcm₀	bm	bfofofc
Ross-on-Wye	ocbbcbc	cbc	bm₀mif	bcfom
Hartland Point	c	cbcc	cbc	bbcw
Bristol	cm₀c	cbcm₀	bcm₀bF	oFbFw
Portland Bill	c	bc	bc	bcc
Plymouth	bfcmbc	bcbcm₀	bcm₀bm₀w	bcm₀bm₀w
The Lizard	bc	bc	bccw	cw
Scilly (St. Mary's)	bc	bcc	cbcw	bbcw
Guernsey				
Pembroke	czbc	bcc	cbcbw	bbcw
Holyhead	cbcm₀c	c	cbcw	wFbbc
Chester (Sealand)	cm₀c	cm₀bc	cbm₀if	bfcmF
Manchester	cm₀l	cm₀bcm₀	wcFF	oFFz
Spurn Head	opr₀	c	oc	ocw
Catterick	frm₀dd₀	dd₀r₀m₀d	d	bcwbm₀
Tynemouth	orro	oir	r	oc
St. Abbs Head	fmor	om₀rr	c	m₀c
Leuchars	r₀iR₀r₀	r₀d₀dcm₀	cm	cm₀bcmbw
Renfrew (Abbots I.)	ccr₀	cr₀r₀ir₀	cr₀bcff	cfFcFc
Eskdalemuir	crrm₀	cd₀d₀	d₀d₀cm₀	cm₀fg
Point of Ayre	cr₀r₀	bcc	bbcb	ffcw
Tiree	c	cbcb	bcb	bbcc
Stornoway	cbcb	bcb	c,cw	c
Dalwhinnie	cpro	oprc	*	opro
Aberdeen	oir₀m₀	orrr₀	r₀ir₀o	om₀c
Wick	d₀dm₀	dom₀c	m₀c	cid₀c
Lerwick	ocir₀rr	cprid₀	cid₀pr	cpr₀r₀r
Blacksod Point	cbc	bc	bc	c
Malin Head	z	z	c	c
Aldergrove	cmir₀cm₀	c	fgcfFc	bFccFc
Birr Castle	off	bc	offc	off
Valentia Obsy. †	bwb	bbw	bwbcw	bcwcw
Roches Point	cz₀bc	bc	bcw	cwfcc

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_0, 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.*

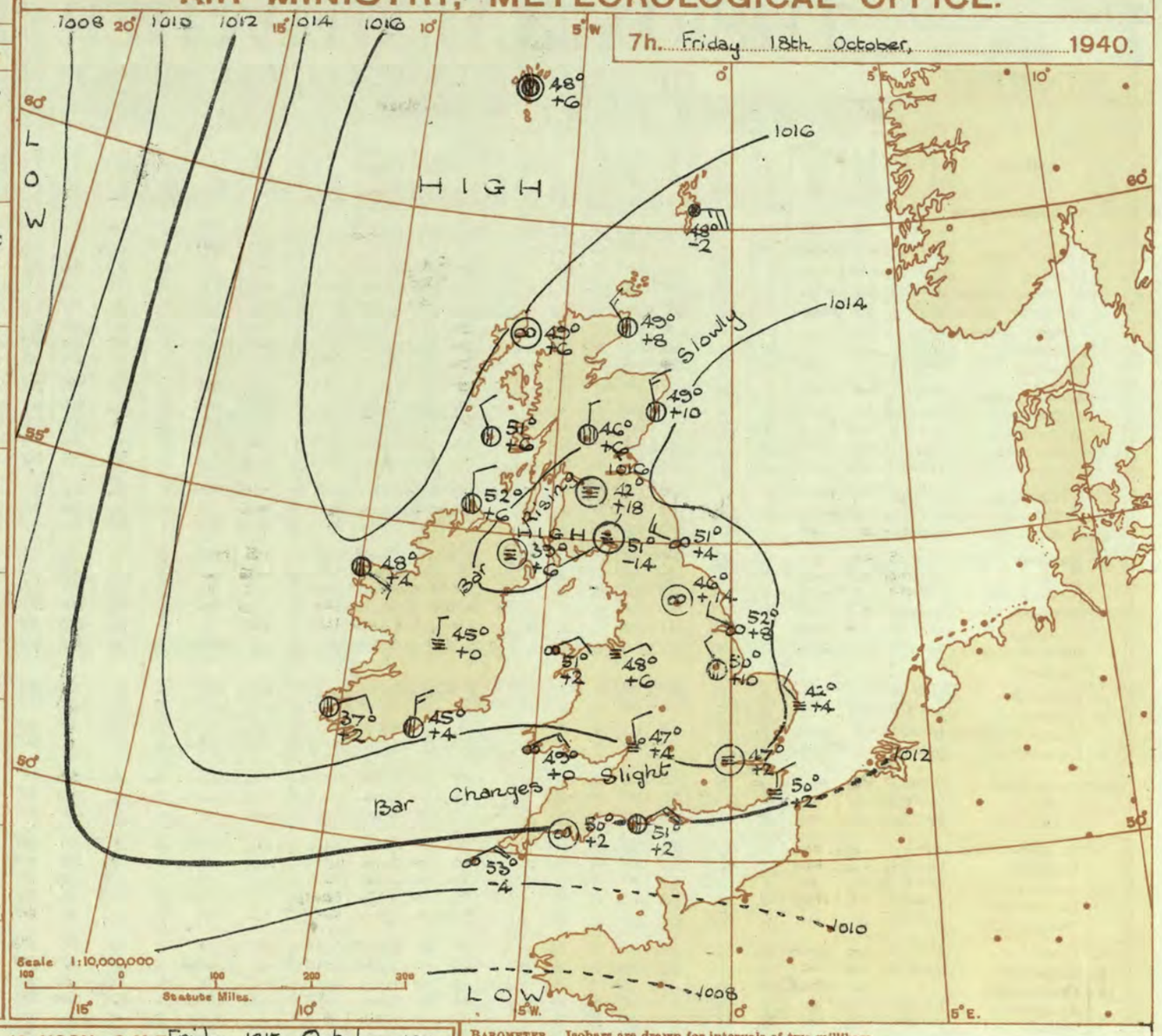
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 18th October, 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 17th Oct.			18h. G.M.T.			01h. G.M.T. 18th Oct.			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
1095-	21528	10248	5-	05548	08358	52	02635	07328	5-	03758	32328
11552	02744	12167	--	48109	12349	52	14635	12348	52	14644	12227
203									5-	03748	24228
206			32	62436	04168	02	45338	00058	5-	51528	00058
210			5-	05648	06228	5-	51638	32158	5-	05648	28158
22020	01863	29303	40	01754	29304				53	01744	00015
23077	02855	32367	58	01763	00014	00	05690	32100	--	48109	00048
24502	62408	04368	62	61626	02268	5-	03748	22128	5-	02947	30227
26052	52626	05268	52	06535	00058	5-	08448	00028	04	08490	28115
277			57	05664	29367	5-	05648	28228	5-	47348	32148
279--	22548	02368	--	05648	02358				--	05545	02225
2856-	02758	06568	6-	63638	30568				5-	03538	28228
2885-	43338	31268	5-	57328	27358	5-	08448	31268	5-	05668	26128
27356	05663	27126							37	05553	12105
3015	05565	32165	5-	08465	30125	00	47190	08140	00	45190	04140
3215-	05628	26428	5-	08457	26227	5-	08467	23127	5-	05567	00027
299			--	57309	28249	5-	05648	25328	5-	05548	25268
2925-	21658	28468	5-	05538	26228	52	05646	28168	50	05645	28125
310			--	08428	24348				--	01634	26214
316			53	08456	20117	50	08490	30110	5-	45165	00045
3338-	05644	30214	5-	05657	32227	00	00790	04200	00	04690	24105
334											
34023	05645	26315	50	05663	28113	00	47390	00040	5-	48118	00048
136			5-	05563	20153	00	47190	00040	5-	43328	20148
336--	02853	32516	--	01853	32414				--	05632	28428
35020	05654	24214	53	05553	24114				--	46109	04249
368											
37930	05645	26215	03	05690	24112	00	05590	04200	--	44209	08349
390 53	08454	22244	57	08455	26117	--	48009	00049	--	44109	00049
382 70	01754	22214	4-	05567	00027	00	45190	00040	--	44209	04149
438 50	01763	25313							8-	02748	12518
430			00	08490	00000				03	41490	02344
409 3-	05643	32225				00	05690	04114	04	05690	05302

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.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 18th October, 1940

DISTRICTS.	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light easterly wind, fair at first, local fog tonight and tomorrow morning; average day temperature.
5 S.W. England 6 South Wales ...	Light variable wind, fair at first, widespread fog tonight and tomorrow morning, thick in places; average day 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 easterly wind; fair at first, occasional rain later; average temperature.
13 A. W. Scotld. B. N.W. Scotland.	As 15-16
14 Mid Scotland	As 2-4
15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate variable wind; cloudy; rain in Shetland at first; local fog tonight; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 2-4.
19 S. E. Ireland 20 S. W. Ireland	Light easterly wind; fair; cloud increasing; local fog tonight; average temperature.

GENERAL INFERENCE.

A depression is centred to Southwest of Iceland and pressure is low over Spain. A belt of relatively high pressure covers the British Isles. Weather will be mainly fair today after the fog clears, but widespread fog will develop again tonight. Occasional rain will occur later in Southwest England.

FURTHER OUTLOOK.

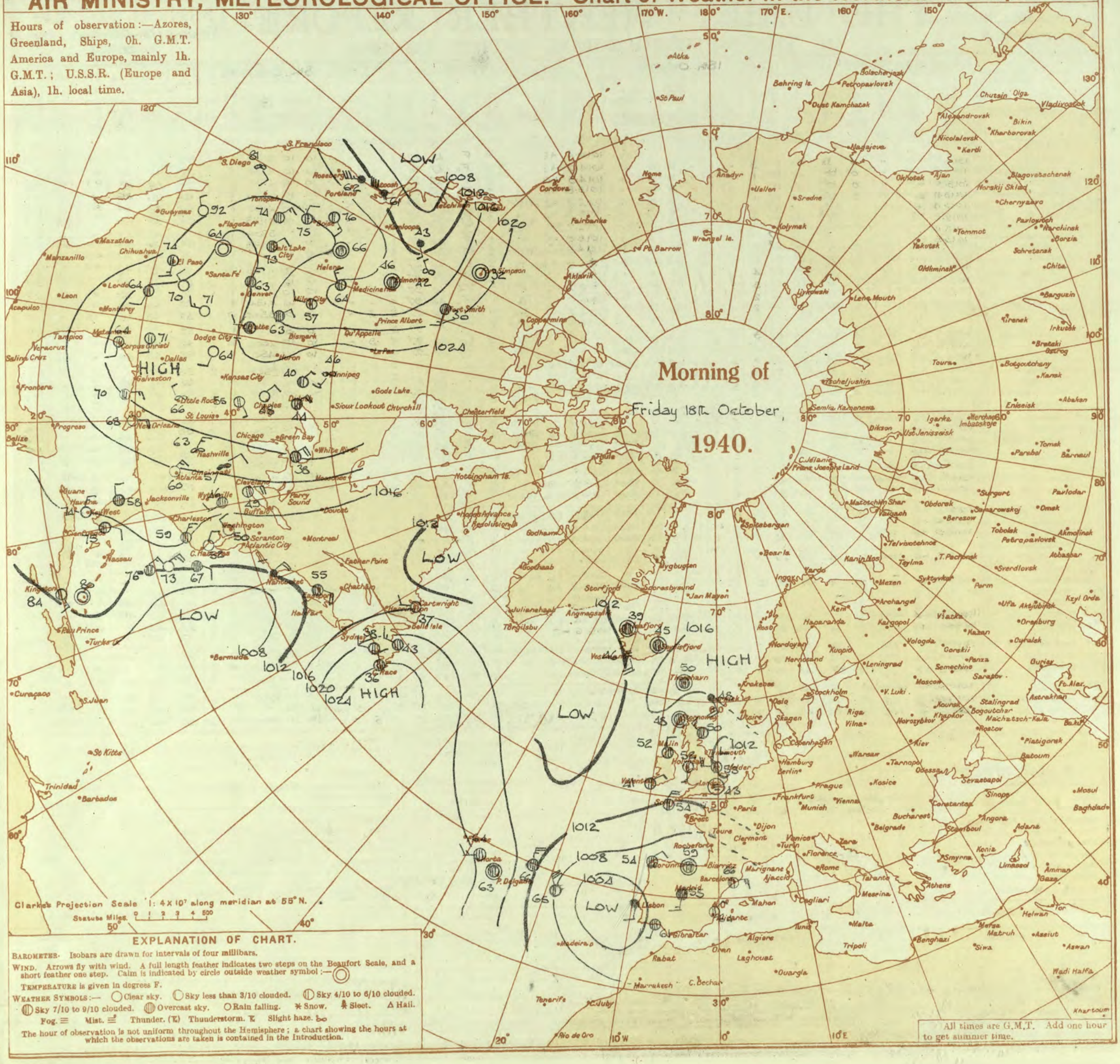
Little change.

Forecasts issued at 1030h G.M.T.

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

H.M.S.O. Press, Cornwall House S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 18th October 1940.

No. 28820

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)	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	1013.3	+2	-	0	b	43	97	3	-	-	-	0	0	-
	S. Farnborough	226	1013.5	+4	-	0	bF	45	97	1	-	-	-	0	0	-
	Boscombe Down	417	1013.6	+6	-	0	bF+	43	97	1	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1012.6	0	N	2	bF	49	97	1	-	-	-	0	0	-
	Lympne ...	346	1013.6	0	NW	1	bf+	46	97	5	-	-	-	0	1	-
	Manston ...	154	1013.5	+2	-	0	bf-	42	97	3	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1013.0	+2	NW	2	m	51	97	4	-	-	-	0	0	-
	Gorleston ...	5	1012.8	+4	WNW	2	bc	54	92	5	5	-	-	4-6	4-6	1800
	Mildenhall ...	19	1013.0	+6	SW	1	bf+	45	97	2	-	-	-	0	0	-
	Cranwell ...	240	1012.9	+6	WNW	2	bf+	47	97	2	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013.4	+2	-	0	bf+	47	97	3	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012.5	0	NE	3	bc	53	92	7	-	4	-	2-3	2-3	3500
	Bristol ...	209	1013.8	+4	-	0	F+	45	97	0	-	-	-	10	10	<150
	Portland Bill ...	32	1012.4	+4	NE	1	bc	52	92	7	5	-	-	2-3	2-3	2500
	Plymouth ...	82	1012.5	+2	-	0	Z_0	49	92	5	-	-	-	0	0	-
	The Lizard ...	240	1012.0	0	N'E	3	c	50	92	6	8	-	-	7-8	7-8	2000
	Scilly (St. Mary's)	163	1012.2	-6	NE'N	4	bc	54	97	6	5	4	3	1	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	1013.4	+2	NE'N	2	b	50	97	7	-	7	-	0	1	-
7	Holyhead ...	26	1014.0	+10	S	1	c	52	97	5	5	-	-	7-8	7-8	1500
	Chester (Sealand)	16	1013.7	+8	-	0	if	46	97	3	1	-	-	1	1	1500
8	Manchester ...	70	1013.7	+10	-	0	F+	42	97	0	-	-	-	10	10	<150
10	Spurn Head ...	29	1012.0	+6	W	4	c	53	92	7	5	-	-	9+	9+	4000
	Catterick ...	175	1012.8	+10	NNW	1	Z_0	52	86	6	5	-	-	9+	9+	2500
	Tynemouth ...	108	1013.0	+10	W	3	c	52	85	6	8	-	-	10	10	1200
11	St. Abbs Head	280	1012.2	+4	N	3	c	51	85	6	5	2	-	9	10	1000
	Leuchars ...	36	1013.0	+2	-	0	Z_0	50	97	6	5	-	-	10	10	1100
12	Renfrew (Abbots I.)	19	1013.9	+6	W'N	1	cf-	46	97	3	5	-	-	7-8	9+	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1013.8	+6	NNE	2	b	53	92	7	7	-	-	Tr	Tr	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1015.2	0	-	0	c	48	97	6	5	7	-	9	10	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1013.9	-4	NNE	2	c	50	97	6	5	2	-	7-8	10	1500
16	Lerwick ...	156	1016.1	-16	SSE	5	pr	48	92	6	8	2	-	7-8	10	800
17	Blacksod Point	18	1015.7	0	NE	1	bc	45	97	7	-	4	-	0	2-3	-
18	Malin Head ...	84	1015.1	+4	N	2	c	52	85	7	5	8	-	4-6	9	1500
	Aldergrove ...	268	1015.3	+2	-	0	bF	44	97	1	5	-	-	Tr	Tr	1000
19	Birr Castle ...	173	1015.6	+2	WNW	1	c	45	97	7	5	-	-	10	10	2500
20	Valentia Obsy.	30	1015.0	-2	NE	1	bc	41	97	8	-	-	6	0	4-6	-
	Roches Point	22	1014.8	0	N'E	3	bc	46	97	7	-	-	5	0	2-3	-

OBSERVATIONS at 7 hr. 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)	1014.4	+6	-	0	F	45	92	1	-	-	-	10	10	<150	1	*
	Croydon ...	1014.2	+2	-	0	F+	47	97	1	-	-	-	10	10	<150	1	*
	S. Farnborough	1014.3	+6	-	0	F	42	97	1	-	-	-	10	10	<150	1	*
	Boscombe Down	1013.8	+4	N	3	F-	45	97	1	-	-	-	10	10	<150	1	*
	Calshot (Sthmtn.)	1012.7	-2	NE'N	2	Z_0	49	97	5	5	7	-	2-3	7-8	5700	1	0
	Lympne ...	1013.9	+2	N	2	F	50	97	1	-	-	-	10	10	<150	1	5
	Manston ...	1014.0	+2	NNW	1	cf-	43	97	2	-	3	-	0	3	-		*
2	Shoeburyness ...	1014.2	+4	N'W	1	F	42	97	1	-	-	-	10	10	<150	1	*
	Felixstowe ...	1014.0	+6	NNW	2	bF-	44	97	1	-	-	-	0	0	-	1	0
	Gorleston ...	1013.7	+4	NW	2	F+	42	97	1	-	-	-	10	10	<150	1	1
	Mildenhall ...	1014.5	+6	NW	1	F	46	97	0	-	-	-	10	10	<150	1	*
	Cranwell ...	1014.8	+10	NW	1	c/f	50	97	5	5	-	-	9	9	3500	0	*
3	Birmingham ...	1015.1	+4	N	1	bf	46	97	2	-	-	-	0	0	-	1	*
	Upper Heyford	1014.4	+2	NE	2	m/f	48	97	4	5	-	-	10	10	200	1	*
4	Ross-on-Wye	1014.6	+4	N'W	2	m	47	97	4	5	-	-	10	10	450	1	*
5	Hartland Point	1012.4	-2	ENE	3	bc	51	92	7	1	4	-	1	2-3	2500	1	2
	Bristol ...	1014.7	+6	NE	1	bf	47	97	2	-	-	-	0	0	-	1	*
	Portland Bill ...	1012.3	+2	NE	4	c	51	92	7	5	7	-	7-8	7-8	4000	1	3
	Plymouth ...	1011.9	+2	-	0	Z_0	50	97	6	-	4	1	0	2-3	-	0	1
	The Lizard ...	1011.2	+2	NE	2	c	53	97	7	5	2	-	9	10	1500	1	2
	Scilly (St. Mary's)	1011.0	-4	NE'E	4	Z_0	53	97	6	5	4	4	1	4-6	1500	1	2
	Guernsey ...																
6	Pembroke ...	1013.4	0	NE'E	3	bc	49	92	6	-	7	2	0	2-3	-	1	1
7	Holyhead ...	1014.3	+2	ENE	2	Z_0	51	97	6	8	-	2	1	4-6	1500	1	1
	Chester (Sealand)	1014.9	+6	ENE	1	F+	48	97	1	-	-	-	10	10	<150	1	*
8	Manchester ...	1012.5	+6	-	0	F	47	97	1	-	-	-	10	10	<150	0	*
10	Spurn Head ...	1014.5	+8	WNW	2	c	52	92	6	5	-	-	9+	9+	4000	1	2
	Catterick ...	1015.2	+14	-	0	Z_0	46	92	5	5	-	-	7-8	7-8	5700	1	*
	Tynemouth ...	1014.7	+4	WNW	3	Z_0	51	85	6	8	-	-	9+	9+	2500	1	2
11	St. Abbs Head	1013.9	+10	WNW	3	c	50	92	7	6	2	-	4-6	10	1500	1	2
	Leuchars ...	1014.6	+10	W	1	b	46	92	7	5	-	-	1	1	2500	1	*
12	Renfrew (Abbots I.)	1016.0	+18	-	0	F+	42	97	1	-	-	-	6	10	<150	1	*
	Eskdalemuir ...	1015.0	+14	-	0	cf/g	51	97	6	5	1	-	4-6	10	4000	1	*
	Point of Ayre ...	1015.3	+10	NNE	2	c	52	97	7	8	2	-	7-8	10	1500	0	1
13A	Tiree	1015.0	+6	NNW	2	c	51	92	7	5	-	-	9	9	1800	0	2
13B	Stornoway ...	1016.0	+6	-	0	Z_0	49	92	6	5	7	-	9	10	1000	1	0
15	Dalwhinnie ...	1016.5	+6	N	1	0	46	97	6	5	-	-	10	10	1500	1	*
	Aberdeen ...	1014.2	+10	NNW	3	c	49	97	7	6	-	-	9+	9+	1500	1	8
	Wick ...	1014.4	+8	NW	3	c	49	97	6	5	2	-	9	10	1500	1	2
16	Lerwick ...	1015.6	-2	E	5	rr	48	97	6	6	2	-	4-6	10	800	1	*
17	Blacksod Point	1015.5	+4	SE'E	1	c	48	97	7	-	7	-	0	9+	-	0	2
18	Malin Head ...	1015.6	+6	N	2	c	52	78	8	6	-	-	7-8	7-8	5700	0	1
	Aldergrove ...	1016.6	+6	-	0	F+	39	97	1	5	-	-	10	10	200	1	*
19	Birr Castle ...	1015.3	0	N	1	cf+	45	97	3	5	-	-	10	10	800	1	*
20	Valentia Obsy.	1014.8	+2	NE'E	2	c	37	97	8	-	3	6	0	7-8	-	1	1
	Roches Point	1014.5	+4	N	3	c/f	45	97	7	5	-	-	9+	9+	800	1	2

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 17th, Hrs. (36)
1	London (Kew)	59	43	35	0.1	Tr	4.1
	Croydon ...	63	40	39	-	Tr	5.1
	S. Farnborough	62	40	39	0.1	Tr	3.5
	Boscombe Down	61	41	36	-	0.1	2.6
	Calshot (Sthmtn.)	61	47	44	-	-	4.6
	Lympne ...	59	42	34	-	0.2	1.8
	Manston ...						
2	Shoeburyness ...	61	40	34	-	Tr	3.4
	Felixstowe ...	61	43	42	0.3	-	3.7
	Gorleston ...	61	42	39	0.5	-	2.7
	Mildenhall ...	59	40	35	-	Tr	3.2
	Cranwell ...	57	43	41	2	-	1.0
3	Birmingham ...	59	46	38	*	-	3.5
	Upper Heyford	62	44	35	Tr	-	*
4	Ross-on-Wye	62	40	36	-	Tr	2.2
5	Hartland Point	58	50	47	-	-	3.2
	Bristol ...	61	39	35	-	0.1	3.9
	Portland Bill ...	59	50	*	-	-	*
	Plymouth ...	62	46	35	-	-	8.2
	The Lizard ...	62	49	*	-	-	9.2
	Scilly (St. Mary's)	58	53	*	-	-	7.7
	Guernsey ...						
6	Pembroke ...	59	48	*	-	-	5.6
7	Holyhead ...	56	45	38	-	-	0.4
	Chester (Sealand)	57	44	35	-	Tr	1.6
8	Manchester ...	58	40	36	-	-	0.8
10	Spurn Head ...	55	51	*	Tr	Tr	0.0
	Catterick ...	54	45	40	3	Tr	0.0
	Tynemouth ...	53	51	48	4	2	
11	St. Abbs Head	52	50	*	8	Tr	*
	Leuchars ...	58	45	36	4	-	-
12	Renfrew (Abbots I.)	55	41	38	1	0.2	0.0
	Eskdalemuir ...	54	42	36	1	Tr	0.0
	Point of Ayre ...	56	42	*	0.5	-	1.5
13A	Tiree	54	50	*	-	-	0.2
13B	Stornoway ...	55	44	*	-	-	7.9
15	Dalwhinnie ...	50	45	43	1	0.1	0.0
	Aberdeen ...	52	49	48	5	0.3	0.0
	Wick ...	53	48	*	0.2	0.1	*
16	Lerwick ...	52	47	*	2	2	0.0
17	Blacksod Point	59	42	*	-	-	*
18	Malin Head ...	55	47	*	-	-	0.0
	Aldergrove ...	56	36	33	0.1	0.1	0.0
19	Birr Castle ...	50	46	36	*	-	0.0
20	Valentia Obsy.	58	37	32	Tr	Tr	9.2
	Roches Point	59	44	*	Tr	0.1	*

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	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	bcdbdm	bbcm	cbcmf	59	43	35	0.1	Tr	4.1	*	*	2
Croydon ...	217	cbm	bcbm	bf	63	40	39	-	Tr	5.1	*	*	1
Greenwich (Royal Observatory) ...	149												
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*									*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*									*
Camden Square ...	110			*						*	*		*
Kensington ...	80			*									*
Hampstead Observatory ...	450										*		*

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.
0.2	7-8h. 7th.	<0.1	12-1h. 17th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...											*	*		

‡ 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.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

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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.

BRITISH SECTION

Saturday 19th October 1940.

No. 28821

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) ...	1015.1	-2	NE	3	z₀	57	85	5	5	3	1	7-8	9+	2500
	Croydon ...	1014.3	-4	NE	2	of	51	97	3	5	-	-	10	10	450
	S. Farnborough	1013.6	-12	NE'E	2	m/f	51	97	4	5	7	-	7-8	10	700
	Boscombe Down	1013.1	-10	NE	3	z₀	55	85	6	5	3	-	2-3	7-8	600
	Calshot (Soton.)	1012.6	-10	ENE	3	id	55	85	4	5	-	-	10	10	1400
	Lympne ...	1013.9	-6	NE	2	d₀	55	97	4	6	2	-	7-8	10	700
	Manston ...	1013.9	-8	NE	2	d₀d₀	56	97	4	5	7	-	4-6	10	800
2	Shoeburyness ...	1014.4	-4	NNE	1	z₀	53	85	4	5	-	-	10	10	1500
	Felixstowe ...	1014.4	-2	NE'N	2	z₀	57	85	6	5	5	-	1	7-8	1600
	Gorleston ...	1015.0	0	NNE	3	bc	56	75	6	2	3	-	4-6	4-6	1800
	Mildenhall ...	1014.8	-6	NWN	2	c	57	85	7	8	-	-	9	9	2000
	Cranwell ...	1015.8	-2	N	2	z₀	55	65	6	5	-	-	9+	9+	3000
3	Birmingham	1014.9	-4	ENE	3	z₀	55	75	6	7	-	-	4-6	4-6	2000
	Upper Heyford	1014.5	-6	NE	3	z₀	55	85	6	7	-	1	7-8	7-8	1500
4	Ross-on-Wye ...	1014.3	-8	NE'E	3	z₀	54	75	6	7	-	1	2-3	4-6	2500
5	Hartland Point	1011.4	-12	NE	3	bc	55	85	7	5	-	1	1	2-3	2500
	Bristol ...	1013.9	-14	ENE	2	z₀	54	85	6	5	-	9	9+	9+	1100
	Portland Bill ...	1011.0	-10	NE	4	c₀	55	92	7	5	-	-	10	10	2500
	Plymouth ...	1010.5	-12	ENE	3	c	58	75	7	-	7	•	0	9+	-
	The Lizard ...	1008.8	-10	NE	5	o	56	88	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	1009.9	-12	ENE	4	c	58	85	7	5	7	-	4-6	9+	4000
	Guernsey ...														
6	Pembroke ...	1013.3	-8	E'N	3	bc	59	75	7	1	1	1	Tr	2-3	4500
7	Holyhead ...	1014.3	-6	NE'E	4	b	57	75	7	-	-	4	0	Tr	-
	Chester (Sealand)	1015.1	-6	SE	1	m	58	65	4	5	-	-	Tr	Tr	2000
8	Manchester ...	1015.4	-6	-	0	F	49	97	0	-	-	-	10	10	<150
10	Spurn Head ...	1014.9	0	NW	3	bc	56	85	7	8	4	-	2-3	4-6	4000
	Catterick ...	1015.8	+2	NNE	1	z₀	55	75	6	5	-	-	10	10	5500
	Tynemouth ...	1015.8	+8	NNE	2	z₀	53	85	6	5	-	-	9+	9+	3600
11	St. Abbs Head	1015.9	+6	NNW	2	e	50	80	8	5	2	-	7-8	10	2500
	Leuchars ...	1015.9	+6	E	1	bc	57	65	7	2	-	-	4-6	4-6	2500
12	Renfrew (Abbots I.)	1016.4	-2	-	0	m/f	50	97	4	5	-	-	9	9	2500
	Eskdalemuir ...	1015.7	+2	SE'E	2	c	54	75	7	5	-	-	9+	9+	2500
	Point of Ayre ...	1015.8	+2	ENE	1	bc	54	85	8	7	-	-	2-3	2-3	1500
13A	Tiree ...	1016.1	0	-	0	c	53	92	8	5	3	-	4-6	7-8	2500
13B	Stornoway ...	1016.6	+4	NE	2	c	53	85	7	5	7	-	7-8	9+	2000
15	Dalwhinnie ...	1016.5	+4	NNE	1	c	52	85	7	2	-	-	7-8	7-8	2500
	Aberdeen ...	1015.9	+10	N'W	3	c	53	85	7	8	-	-	9+	9+	2500
	Wick ...	1015.6	+6	N	3	e	52	85	7	5	7	-	7-8	10	1500
16	Lerwick ...	1016.6	+6	E	5	e	49	92	7	8	2	-	7-8	10	800
17	Blacksod Point..	1015.0	-8	SE	1	c	54	85	7	-	5	9	0	9	-
18	Malin Head ...	1015.8	0	N	1	c	53	85	8	9	-	-	9	9	4000
	Aldergrove ...	1016.3	-6	-	0	z₀	53	92	5	8	-	1	2-3	2-3	1500
19	Birr Castle ...	1014.5	-6	ENE	1	c	53	92	7	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1012.9	-22	-	0	c	55	85	8	1	-	6	2-3	9+	2500
	Roches Point ...	1013.0	-14	E	4	c	56	85	7	5	-	-	9	9	2500

OBSERVATIONS at 18h. G.M.T. 18th 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)	1013.4	0	NE	3	z₀	55	75	5	5	-	-	10	10	1500	1	*
Croydon	1013.6	-2	NE	3	m/f	52	97	4	5	-	-	10	10	1000	1	*
S. Farnborough	1013.3	0	ENE	2	df	52	97	3	5	-	-	10	10	400	1	*
Boscombe Down	1012.6	+4	NE'E	4	d₀d	52	97	5	6	2	-	7-8	10	1000	1	*
Calshot (Soton.)	1012.0	-2	ENE	2	of	54	92	3	5	-	-	10	10	1200	1	1
Lympne	1013.1	0	ENE	4	m/p	56	92	4	6	2	-	4-6	10	900	1	§
Manston	1013.9	+6	NE	3	id	56	92	4	6	2	-	9+	10	500		*
Shoeburyness	1014.3	+2	NE'N	3	id	54	92	6	5	2	-	9	10	800	1	*
Felixstowe	1014.4	-2	NE'N	3	z₀	55	85	6	5	-	-	9+	9+	4200	1	1
Gorleston	1015.4	+4	NNE	3	c	54	85	6	5	3	-	4-6	7-8	2500	0	2
Mildenhall	1014.9	+6	NE'N	3	z₀	53	85	6	5	7	-	4-6	9	5000	0	*
Cranwell	1015.9	+4	NE	2	c	51	85	7	5	-	-	7-8	7-8	2500	0	*
Birmingham	1015.0	0	ENE	3	z₀	53	75	5	5	-	-	10	10	1500	1	*
Upper Heyford	1014.3	-2	NE	3	z₀	52	92	6	-	7	8	0	9	-	1	*
Ross-on-Wye	1014.0	+4	NE	2	z₀	51	85	6	5	4	1	2-3	4-6	1500	1	*
Hartland Point	1009.6	-6	NE	4	c	55	85	7	5	4	-	4-6	7-8	1500	1	3
Bristol	1013.2	+2	ENE	3	z₀	53	85	6	5	7	-	4-6	10	5000	1	*
Portland Bill	1010.7	-10	NE	4	o	54	92	6	5	-	-	10	10	4000	1	3
Plymouth	1009.8	-2	ENE	3	z₀	55	85	5	5	-	-	10	10	1600	0	2
The Lizard	1008.9	+4	NE'E	6	o/pr	55	97	7	5	-	-	10	10	1000	1	3
Scilly (St. Mary's)	1008.9	-6	ENE	4	id	55	92	6	5	-	-	10	10	1500	1	2
Guernsey																
Pembroke	1011.9	-2	NNE	4	bc	54	88	6	-	7	8	0	2-3	-	1	2
Holyhead	1014.4	+4	NE	4	b	53	92	7	-	-	1	0	Tr	-	0	3
Chester (Sealand)	1015.2	+2	ENE	2	m	54	85	4	5	-	-	9+	9+	3900	1	*
Manchester	1015.3	+2	NE'E	2	cf+	54	75	3	5	-	-	7-8	7-8	3200	1	*
Spurn Head	1015.7	0	N	3	c	53	92	7	4	-	-	9+	9+	4000	0	2
Catterick	1016.9	+4	ENE	1	z₀	51	92	6	5	-	-	10	10	4500	0	
Tynemouth	1017.4	+6	NE	3	c	52	85	7	5	-	-	9+	9+	3200	1	2
St. Abbs Head	1017.1	+8	NW	1	c	51	85	7	5	2	-	9	10	2500	1	2
Leuchars	1017.1	+10	-	0	z₀	51	92	6	5	1	-	9+	10	2500	1	*
Renfrew (Abbots I.)	1016.7	+6	-	0	F+	49	97	0	-	-	-	10	10	<150	1	*
Eskdalemuir	1016.8	+6	ENE	1	c	49	85	7	5	-	-	9+	9+	2500	1	*
Point of Ayre	1015.9	0	-	0	bc	50	97	7	-	4	-	0	2-3	-	0	1
Tiree	1016.1	0	NNE	1	bc	50	97	8	1	4	-	Tr	2-3	3500	0	1
Stornoway	1017.9	+10	ENE	1	c	49	92	6	5	7	-	4-6	9+	2500	1	1
Dalwhinnie	*	+10	NNE	1	c	47	85	7	4	-	-	10	10	2500	0	*
Aberdeen	1017.2	+10	NNW	2	c	51	85	6	5	-	-	9+	9+	4000	1	2
Wick	1017.1	+10	NNW	3	c/d	51	92	7	5	7	-	7-8	10	800	1	2
Lerwick	1018.6	+10	E'N	4	id	49	97	6	8	2	-	7-8	10	800	1	*
Blacksod Point	1014.2	0	E	3	c	53	92	7	-	7	-	0	10	-	0	2
Malin Head	1015.6	+2	E	1	z₀	53	85	6	5	-	-	9	9	1500	0	1
Aldergrove	1016.2	+4	E	1	z₀	48	92	6	5	3	-	4-6	7-8	3000	1	*
Birr Castle	1013.3	-4	ENE	2	c	52	92	7	5	1	-	7-8	10	2500	1	*
Valentia Obsy. †	1012.0	-2	E	3	c	53	85	7	6	7	1	4-6	9+	3700	1	1
Roches Point	1012.0	-6	E	4	c	53	92	7	5	3	5	4-6	7-8	2500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 18th (37)	13h.–18h. 18th (38)	18h. 18th to 1h. 19th (39)	1h.–7h. 19th (40)
London (Kew)	ofefecm	cpzcm	ozzcm	coffid₀
Croydon	cFF	pfdd		
S. Farnborough	oFFecm	cdd₀of	ofKKe	cmofemo
Boscombe Down	cm bcz		cidrmor	omcrzof
Calshot (Soton.)	ocmom	ddldof	offro	oirmom
Lympne	oF Fczz	cmir	rzom	cm
Manston	oF Fdd	d₀dzcm	idzm	emoff
Shoeburyness	Fefemiz	ddmidc	ofzrrm	crrmo
Felixstowe	bF Fbom	cimzir	oddrcm	mrrzom
Gorleston	oFfebc	bcc	coid₀	oidc
Mildenhall	Fewfec	cbccm₀	emid₀	cidirom
Cranwell	emz	czbcc	cbccm₀	omddm₀
Birmingham	fbcz	bccz	cbcc	ozr
Upper Heyford	cmfcmr	bccm₀	ccmrd₀	czrmf
Ross-on-Wye	omcm	bczcz		
Hartland Point	bc	bce	c	cir
Bristol	cmm₀c	bccm₀	crd₀rzm	ozddm₀
Portland Bill	c	oid₀	o	o
Plymouth	bmwbcc	ccm₀	cizddm₀	cddzm₀
The Lizard	co	opzo	oprom	moc
Scilly (St. Mary's)	bec	cid₀	idzr	oifc
Guernsey				
Pembroke	bczv	z₀bc	zc	cmro
Holyhead	bcwbc	b	bwmzc	cm₀izc
Chester (Sealand)	oFFbcfm	bmmcm	cmmcm	cmoid₀
Manchester	oFFe	oFFmzf	cffbmw	wddr₀
Spurn Head	cbc	c	c	c
Catterick	cbcmcz	czcm	cm₀	om₀c
Tynemouth	c	c	cm₀	c
St. Abbs Head	mzc	c	cbcc	c
Leuchars	bwbmbc	bccm	cmcw	cicirmc
Renfrew (Abbots I.)		bmfg	oFcFc	cFcFcm
Eskdalemuir	bmbc	c	cm₀	cz₀
Point of Ayre	cbc	bbc	c	c
Tiree	c	bc	bcb	bbc
Stornoway	c	c	bc	c
Dalwhinnie	c	co		co
Aberdeen	c	ccz₀	czc	c
Wick	c	cid	idfc	cidf
Lerwick	czr	cddid	cid	c
Blacksod Point	c	c	c	ir
Malin Head	c	cczzc	bcc	c
Aldergrove	cFeFebf	bcmbcm	bcfcm₀	cm₀
Birr Castle	c	c	c	c
Valentia Obsy. †	cwc	cbcc	czorzc	corzr
Roches Point	c	c	cir	dr

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. r₀, 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.*

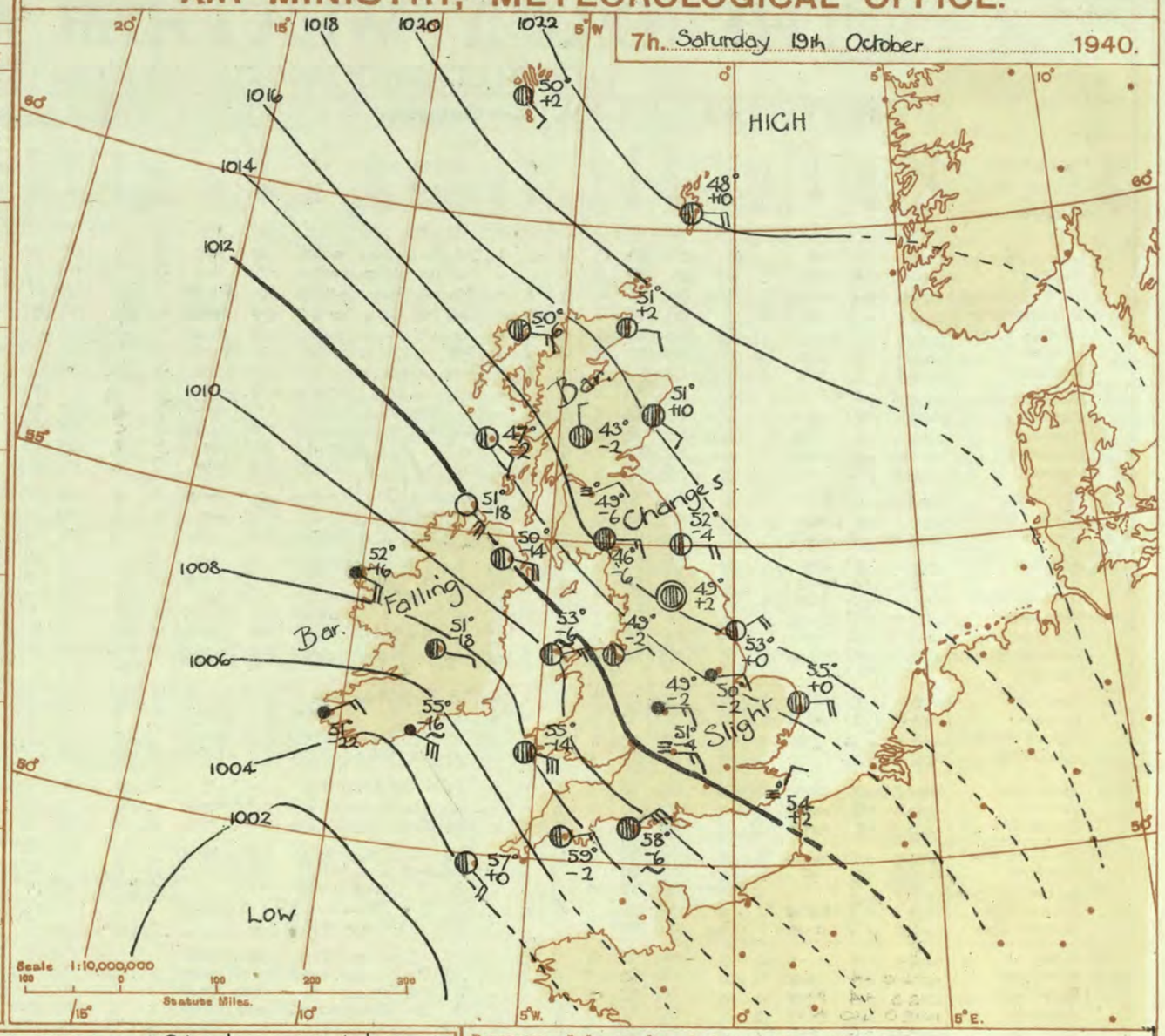
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 18th October			18h. G.M.T.			01h. G.M.T. 19th October			07h. G.M.T.		
III	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN
109	5-	01738	80328	5-	51018	80258	5-	02628	06258	5-	51528	08458
115	52	02744	04228	5-	01834	08225	52	02834	12227	52	02734	12387
203										75	01863	08314
206	5-	02755	26155	5-	02756	08126	5-	02858	24228	5-	02748	24158
210	52	02756	80128	5-	08408	00058	5-	51658	22128	52	05647	12158
220	52	02863	29126	04	01890	00002				52	03744	14228
230	5-	47325	22145				00	05630	00040	53	01771	00014
245	5-	02857	02227	5-	05663	28123	5-	03768	00028	5-	03758	08358
260	20	05463	26208	50	08468	00013	5-	41567	00047	5-	05658	08128
277	4-	02757	18147	04	04630	00012	04	05630	08343	57	02766	08427
279												
285	5-	02847	82327	5-	03748	04228				6-	03638	12528
288	5-	08458	31228	5-	08458	08228	5-	05658	03228	5-	02858	07128
273	16	05653	15105							53	05663	30605
301	50	01754	08244	53	05654	08214	03	05630	08124	5-	21648	10358
321	40	02764	01224	5-	05667	03127				52	05655	03128
299	5-	05645	26215				5-	05647	02227	87	03644	02328
292	86	01655	00015	5-	02858	02128	52	51644	00028	5-	02848	02158
310	--	05435	04425	--	05528	04428						
316	5-	05657	32247	5-	02567	04227	5-	02557	04227	02	58448	04258
333	50	01752	08302	00	17630	00160	5-	05667	06527	52	51754	06457
334												
340	50	08424	00014	50	05666	06216	53	03534	06327	67	21624	41558
136							5-	04558	02118	57	21675	06367
336	--	01852	32414	--	05522	12416				--	03743	08428
350	5-	05588	04348	53	05655	04316						
368												
379	2-	05645	06325	03	05630	06314	6-	62538	08468	--	57109	08459
390	53	05554	02324	5-	52445	06208	5-	62448	04268			
382	13	05644	53324	5-	08438	06128	62	64536	06368	5-	51538	07358
438	62	54438	04558							5-	57009	04459
430	5-	52458	04858	5-	57328	06308						
409	04	02730	06328	0-	05657	08327	5-	05538	08568	67	61626	10568

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 19th October 1940.



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. Saturday 19th October, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate east wind; mainly cloudy; local drizzle at first, perhaps bright intervals later; local morning mist or slight fog; rather close.
5 S.W. England 6 South Wales ... 7 North Wales ...	Moderate or fresh east or southeast wind; cloudy; occasional rain or drizzle; rather close.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate or light east wind; cloudy; light rain or drizzle at times; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5-7

GENERAL INFERENCE.

A depression centred off our southwest coasts is moving slowly N.N.W. Weather will be cloudy generally with some light rain or drizzle in many districts, but more especially in the W. & S.W. Conditions will become fair, but with considerable cloud in the S.E.

FURTHER OUTLOOK.

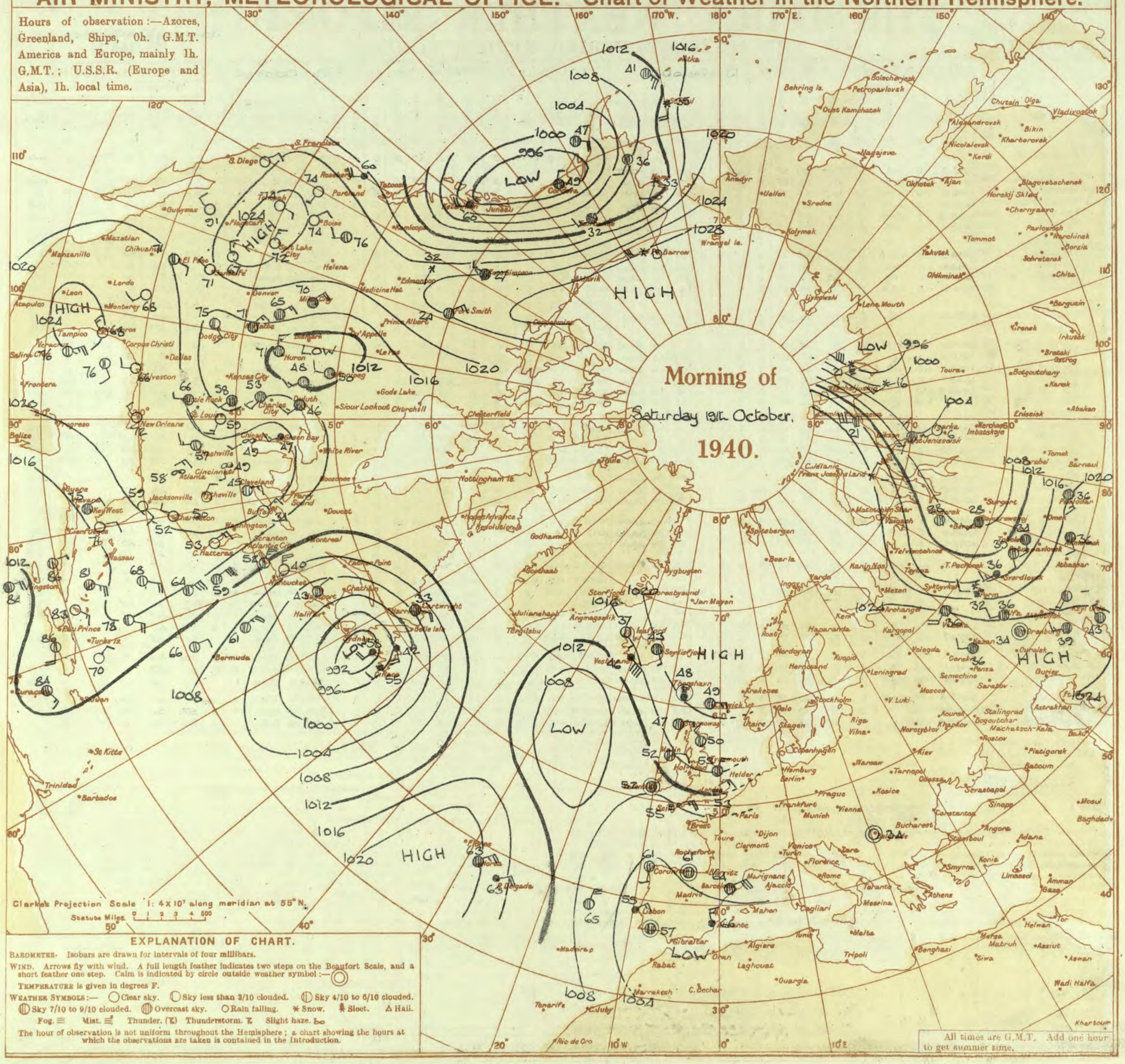
Mainly cloudy, with occasional rain or drizzle; E. or S.E. winds.

Forecasts issued at

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

H.M.S.O. Press, Cornwall House, S.E.1

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



Page 4.
AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday 19th October 1940.
No. 28821

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)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1013.3	-6	NE	3	m/r	53	97	4	6	-	-	10	10	1000
	S. Farnborough	226	1011.7	-16	E'N	3	m	52	97	4	6	-	-	10	10	500
	Boscombe Down	417	1012.2	-6	ENE	4	r°r°	52	97	6	6	2	-	10	10	600
	Calshot (Sthmtn.)	8	1011.9	-2	ENE	2	o/r	55	97	6	5	-	-	10	10	900
	Lympne	346	1013.4	-2	ENE	4	m	56	97	4	5	-	-	10	10	100
	Manston	154	1013.3	-10	NE	3	m	56	97	4	6	2	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1014.5	-4	NE'E	3	rr	54	97	6	-	2	-	10	10	1700
	Gorleston	5	1015.8	-2	NE	3	id₀	54	85	6	6	-	-	10	10	1200
	Mildenhall	19	1014.9	-6	NE	2	id₀	52	97	6	5	2	-	9+	10	2600
	Cranwell	240	1016.2	-2	NE'E	2	z₀	50	85	6	5	7	-	9	10	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013.9	-6	E	3	r°r°	50	97	4	6	2	-	9	10	500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007.8	-14	ENE	6	c	54	92	7	5	1	-	4-6	10	1500
	Bristol	209	1012.6	-8	E	3	r°r°	51	97	5	6	2	-	7-8	10	800
	Portland Bill	32	1010.1	-6	NE	4	o	55	92	7	5	-	-	10	10	2500
	Plymouth	82	1008.7	-8	E'N	3	d₀d₀	56	92	5	-	2	-	10	10	800
	The Lizard	240	1006.3	-12	E'N	6	c	57	97	5	5	-	-	10	10	800
	Scilly (St. Mary's)	163	1005.7	-14	E'N	5	m	55	97	4	5	-	-	10	10	800
	Guernsey	175														
6	Pembroke	142	1009.8	-12	E	5	z₀	64	85	6	5	-	-	10	10	2000
7	Holyhead	26	1013.0	-10	ENE	5	c	53	85	6	-	3	-	0	9+	—
	Chester (Sealand)	16	1015.0	-6	E'S	1	m	49	92	4	5	3	-	2-3	9	2500
8	Manchester	70	1015.8	-2	NE'E	2	m	43	92	4	5	3	-	4-6	4-6	3000
10	Spurn Head	29	1016.6	0	NE	3	c	53	92	7	5	-	-	9+	9+	4000
	Catterick	175	1017.3	-2	—	0	z₀	49	92	6	5	-	-	10	10	1800
	Tynemouth	108	1018.3	0	NNW	3	c	51	92	6	5	-	-	9+	9+	2800
11	St. Abbs Head	280	1017.6	0	—	0	c	50	85	8	5	2	-	7-8	10	2500
	Leuchars	36	1018.0	+2	—	0	c	49	92	7	5	-	-	9+	9+	3800
12	Renfrew (Abbots I.)	19	1017.6	-2	—	0	cF	45	97	1	5	-	-	9+	9+	4500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1015.8	0	SE'S	4	c	53	85	7	5	2	-	7-8	10	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1018.7	0	E	1	c	47	92	7	5	-	6	Tr	7-8	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	
	Wick	81	1018.0	+2	E	2	c	51	92	6	5	2	-	7-8	10	1500
16	Lerwick	156	1020.7	+4	E'S	3	c	49	92	7	8	3	-	7-8	9	1500
17	Blacksod Point	18	1012.4	-8	SE	2	c	52	86	7	-	7	-	0	10	-
18	Malin Head	84	1015.1	-4	E	2	c	52	85	8	2	7	-	2-3	7-8	5700
	Aldergrove	268	1015.4	-8	ESE	2	z₀	51	92	6	5	-	-	9+	9+	3100
19	Birr Castle	173	1011.6	-10	ENE	1	c	49	97	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	30	1009.9	-10	—	0	c/r	52	92	7	5	2	-	2-3	10	4000
	Roches Point	22	1009.3	-18	E	4	ir₀	52	92	7	6	2	-	7-8	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 19th 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)	1012.4	+6	ENE	3	of	55	85	3	5	-	-	10	10	1500	1	*
Croydon																*
S. Farnborough	1011.9	-2	E'N	3	m/f	54	97	4	5	-	-	10	10	600	1	*
Boscombe Down	1010.8	0	E	3	of	53	97	3	5	-	-	10	10	200	1	*
Calshot (Sthmtn.)	1010.9	0	ESE	2	z₀	55	97	5	5	3	-	2-3	2-3	3500	1	1
Lympne	1013.3	+2	NE	2	m	54	97	4	5	-	-	9+	9+	200	1	§ 3
Manston	1013.0	+2	NE	4	f	56	97	3	-	-	-	10	10	<150		*
Shoeburyness	1013.5	0	ENE	3	m	56	97	4	5	-	-	10	10	450	1	*
Felixstowe	1013.4	-2	E'N	4	m	56	97	4	5	-	-	10	10	400	1	2
Gorleston	1015.0	0	E	4	c	55	85	6	-	2	-	10	10	<150	0	2
Mildenhall	1013.8	-2	E'N	3	z₀	53	92	6	5	-	-	10	10	1000	1	*
Cranwell	1015.3	-2	E	2	d₀d₀	50	92	6	5	-	-	10	10	1200	1	*
Birmingham	1013.2	-2	E	3	r°r°	49	97	4	6	-	-	10	10	450	1	*
Upper Heyford	1013.0	-4	E	3	f+	51	97	2	-	-	-	10	10	<150	1	*
Ross-on-Wye	1012.1	-4	NE	2	z₀	51	97	6	5	-	-	10	10	450	1	*
Hartland Point	1006.8	+6	E	5	ir	56	97	6	6	2	-	7-8	10	1500	1	2
Bristol	1011.2	+2	E	3	z₀	53	97	6	5	-	-	10	10	800	1	*
Portland Bill	1009.0	-6	ENE	5	o	58	92	7	5	-	-	10	10	2500	1	4
Plymouth	1007.4	-2	E'N	3	c/r	59	97	5	5	-	-	9+	9+	500	1	1
The Lizard	1005.8	+4	E	5	c	57	97	6	5	2	-	7-8	9+	1500	1	2
Scilly (St. Mary's)	1004.1	0	SE'E	4	c	57	97	6	5	7	-	4-6	10	1200	1	3
Guernsey																
Pembroke	1007.7	-14	E'S	6	o/r	55	92	6	5	-	-	10	10	1000		
Holyhead	1009.8	-6	E'N	5	c/r	53	92	7	5	2	-	7-8	10	3000	1	4
Chester (Sealand)	1013.2	-2	E'N	1	c/d	49	92	5	6	2	-	9	10	1500	1	*
Manchester	1013.5	-6	E'N	4	c/d	53	75	5	5	-	-	4-6	10	1200	1	*
Spurn Head	1015.2	0	NE'E	4	c	53	85	7	5	4	-	7-8	9+	4000	0	2
Catterick	1016.7	+2	—	0	c	49	92	8	5	-	-	10	10	2200	0	*
Tynemouth	1017.7	-4	E	4	c	52	92	7	8	-	-	9+	9+	3800	1	2
St. Abbs Head	1016.8	+2	ESE	3	c	51	85	8	6	2	-	4-6	10	1800	0	2
Leuchars	1017.3	0	-	0	o/r•	49	92	6	5	-	-	10	10	1600	1	*
Renfrew (Abbots I.)	1016.2	-6	E'N	2	m	49	85	4	5	-	-	10	10	2500	1	*
Eskdalemuir	1016.4	-6	E	3	c	46	85	7	5	-	-	10	10	2500	1	
Point of Ayre	1013.6	-10	ESE	4	c	52	85	8	5	4	-	2-3	7-8	2500	0	3
Tiree	1014.7	-2	ESE	2	bc	47	92	8	-	3	-	0	2-3	-	0	2
Stornoway	1018.1	-6	E	3	c	50	85	8	5	-	-	9	9	2500	1	2
Dalwhinnie	1018.1	-2	N	1	o	43	85	7	5	-	-	10	10	2500	0	*
Aberdeen	1018.4	+10	SE'E	1	c	51	85	7	8	-	-	10	10	2500	1	2
Wick	1018.2	+2	ESE	2	c/d	51	92	6	5	7	-	7-8	10	1500	1	2
Lerwick	1022.1	+10	E	4	c	48	85	7	8	7	-	7-8	9+	800	1	*
Blacksod Point	1009.0	-16	ESE	4	r°r°	52	92	7	6	-	-	10	10	800	1	3
Malin Head	1011.5	-18	SE	5	c	51	75	8	3	6	-	4-6	7-8	4000	0	2
Aldergrove	1012.9	-14	E'S	4	z₀	50	85	6	5	7	-	9	10	1800	1	*
Birr Castle	1007.6	-18	ESE	2	c	51	85	7	5	1	-	7-8	10	2500	1	*
Valentia Obsy.	1005.3	-22	NE'E	3	rr	51	97	6	6	2	-	7-8	10	800	1	2
Roches Point	1004.4	-16	ESE	6	dr	55	97	5	5	-	-	10	10	800	1	4

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 18th. Hrs. (36)
London (Kew)	55	52	51	Tr	3	0.0
Croydon	52			0.4		
S. Farnborough	54	52	51	0.3	7	0.0
Boscombe Down	56	51	50	0.2	7	2.1
Calshot (Sthmtn.)	55	53	53	0.3	5	0.4
Lympne	56	54	52	1	3	0.0
Manston						
Shoeburyness	56	53	52	0.3	4	0.5
Felixstowe	57	53	52	0.1	2	3.2
Gorleston	57	53	50	-	Tr	4.4
Mildenhall	59	51	50	0.1	Tr	3.7
Cranwell	57	49	41	-	0.1	0.7
Birmingham	56	48	45	-*	3	3.6
Upper Heyford	57	49	45	-	3	*
Ross-on-Wye	56	49	46	-	2	1.5
Hartland Point	56	53	52	-	Tr	9.1
Bristol	57	51	50	-	2	1.7
Portland Bill	57	53	*	0.5	2	*
Plymouth	58	55	53	-	0.3	3.3
The Lizard	58	54	*	0.4	1	0.9
Scilly (St. Mary's)	58	55	*	Tr	0.4	1.3
Guernsey						
Pembroke	60	51	*	-		8.2
Holyhead	57	51	47	-	Tr	8.0
Chester (Sealand)	59	48	44	Tr	0.1	3.9
Manchester	55	42	32	-	0.1	0.0
Spurn Head	54	49	*	-	-	4.2
Catterick	55	48	47	-	-	0.7
Tynemouth	53	50	46	-	-	*
St. Abbs Head	53	49	*	-	Tr	*
Leuchars	59	47	44	-	Tr	5.0
Renfrew (Abbots I.)	55	44	43	Tr	0.2	2.5
Eskdalemuir	56	45	45	-	-	2.9
Point of Ayre	55	47	*	-	-	7.8
Tiree	55	43	*	-	-	2.2
Stornoway	55	45	*	-	-	2.7
Dalwhinnie	52	41	37	-	-	1.1
Aberdeen	53	49	47	-	-	0.0
Wick	53	49	*	Tr	Tr	*
Lerwick	50	47	*	0.5	Tr	0.0
Blacksod Point	56	50	*	-	0.3	*
Malin Head	55	47	*	-	-	0.0
Aldergrove	56	44	39	-	-	4.8
Birr Castle	56	48	46	-	-	0.2
Valentia Obsy.	57	50	48	Tr	9	3.7
Roches Point	58	52	*	-	6	*

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	ofcfcm	cpr₀cm₀	coffid₀	55	52	51	Tr	3	0.0	•	•	4
Croydon	217	oFF	pfdd₀		52			0.4			•	•	
Greenwich (Royal Observatory)	149	Fccm₀	cidm₀	d₀r₀r₀	54	52	47	Tr	3	0.0	89	95	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•	58	52	52	3		0.0	85	95	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	56	46	45	-	3	0.0	87	97	•
Camden Square	110	o	o	•	56	52	49	-	3	•	•	97	•
Kensington	80	cfpcf	edc	•	55	52	51	Tr	2		83	97	•
Hampstead Observatory	450	om	bc .	or	53	50	48	-	3	0.0	•	100	•

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.
0.2	9-12h. 18th.	<0.1	0-5h. 19th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 18th October Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 19th 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.
Paris														
Brussels														
Berlin														
Zürich														
Rome											•	•		

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	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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 20th October 1940.

No. 28,822

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) ...	1011·6	-6	E	4	z	61	75	6	-	-	8	0	Tr	-
	Croydon	1011·9	-6	E	3	z	61	85	5	-	-	-	0	0	-
	S. Farnborough	1010·8	-10	E'N	3	z	64	75	6	-	-	1	0	Tr	-
	Boscombe Down	1010·0	-10	E'N	3	z	64	75	6	-	7	1	0	4-6	-
	Calshot (Soton.)	1010·0	-10	SE	5	z	61	75	6	-	4	4	0	7-8	-
	Lympne ...	1012·7	-2	E	3	z	61	85	5	-	-	1	0	2-3	-
	Manston ...	1012·6	-8	E'N	4	z	60	85	6	-	-	2	0	2-3	-
2	Shoeburyness ...	1013·1	-6	NE'E	3	c	59	92	5	5	-	-	7-8	7-8	1500
	Felixstowe ...	1013·3	-4	E'N	4	m	57	97	4	5	-	-	10	10	400
	Gorleston ...	1014·8	-4	E	4	c	56	85	6	5	-	-	10	10	1500
	Mildenhall ...	1013·9	-6	E'S	3	z	58	92	5	5	2	-	9	10	1200
	Cranwell ...	1014·8	-4	E	4	c	54	92	7	5	-	-	10	10	1500
3	Birmingham	1012·4	0	E	3	id	53	97	4	5	-	-	10	10	450
	Upper Heyford	1012·3	-6	E	3	of	56	97	3	5	-	-	10	10	400
4	Ross-on-Wye ...	1010·8	-8	ENE	3	z	56	92	5	5	-	-	10	10	450
5	Hartland Point	1007·1	-6	E	3	c	59	85	6	5	6	-	4-6	7-8	1200
	Bristol	1009·9	-14	E	3	z	62	85	6	1	3	-	1	9+	1500
	Portland Bill ...	1008·7	-6	E	4	c	59	85	7	5	-	-	7-8	7-8	2500
	Plymouth ...	1007·1	-8	E	4	z	61	85	5	5	3	-	4-6	7-8	900
	The Lizard ...	1006·6	0	E	4	m	60	92	4	5	2	-	9	10	1400
	Scilly (St. Mary's)	1005·4	+2	SE'E	4	c	61	85	7	5	7	4	4-6	7-8	1800
	Guernsey ...														
6	Pembroke ...	1007·6	-2	ESE	6	bc	59	85	6	5	7	-	4-6	4-6	2000
7	Holyhead ...	1007·2	-22	E	4	rc	55	92	6	5	7	-	7-8	10	3000
	Chester (Sealand)	1012·5	-6	SE	2	z	55	85	5	5	2	-	9	10	1700
8	Manchester ...	1012·6	-8	E	4	z	56	85	5	5	7	-	4-6	9+	2100
10	Spurn Head ...	1015·0	0	E'N	4	c	55	85	7	8	7	-	4-6	9	4000
	Catterick ...	1015·9	-8	E'S	1	c/p	52	92	8	5	7	-	4-6	10	2500
	Tynemouth ...	1017·9	-6	SE	3	z	52	92	6	5	-	-	9+	9+	3000
11	St. Abbs Head	1016·3	-8	SE	3	c	51	92	7	5	2	-	7-8	10	2000
	Leuchars ...	1016·9	-2	ESE	3	c	53	92	8	5	-	-	10	10	1200
12	Renfrew (Abbots I.)	1014·3	-10	E'S	4	c	53	75	7	5	7	-	9	10	2800
	Eskdalemuir ...	1014·7	-8	ESE	4	c	49	85	7	5	2	-	7-8	10	2500
	Point of Ayre ...	1011·0	-18	SSE	6	c	54	85	7	8	2	-	2-3	10	2500
13A	Tiree	1011·3	-20	ESE	5	c	53	85	8	5	3	-	4-6	7-8	2500
13B	Stornoway ...	1014·4	-20	E	5	c	54	75	8	2	5	2	Tr	7-8	2100
15	Dalwhinnie ...	1016·3	-10	SE	2	c	49	85	6	8	4	-	7-8	9	1500
	Aberdeen ...	1018·2	-4	SE'S	3	o	52	92	6	5	-	-	10	10	800
	Wick	1018·5	+4	SE	3	c	51	92	6	5	7	8	7-8	10	800
16	Lerwick... ...	1022·8	+2	ESE	4	c	50	75	8	8	3	-	4-6	9	800
17	Blacksod Point..	1003·4	-34	E	3	pp	51	97	6	6	-	-	10	10	<150
18	Malin Head ...	1007·6	-26	ESE	6	c	52	75	7	9	-	-	9	9	4000
	Aldergrove ...	1010·0	-8	ES	5	id	52	85	6	5	-	-	10	10	600
19	Birr Castle ...	1004·8	-8	SE	4	c/p	56	92	7	6	2	-	7-8	10	1500
20	Valentia Obsy. †	1003·2	-2	NW'W	3	pp	52	97	6	6	-	-	10	10	450
	Roches Point ...	1003·1	-4	ESE	6	id	57	97	5	5	-	-	10	10	450

OBSERVATIONS at 18h. G.M.T. 19th 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)	1011·9	+2	ENE	3	m	57	85	4	-	-	-	0	0	-	1	*
Croydon	1011·3	-2	E	2	m	55	97	4	-	4	-	0	1	-	1	*
S. Farnborough	1010·3	+2	E'N	3	z	57	92	5	-	-	6	0	7-8	-	1	*
Boscombe Down	1009·6	+6	E'N	3	z	58	92	5	-	-	1	0	4-6	-	0	*
Calshot (Soton.)	1009·4	-4	ESE	3	z	59	85	6	-	-	2	0	7-8	-	1	2
Lympne	1011·9	-2	ENE	3	z	57	85	6	-	-	1	0	1	-	1	§
Manston	1011·6	+12	ENE	4	z	58	85	6	-	-	1	0	2-3	-		*
Shoeburyness	1012·1	-4	NE	3	bm	56	92	4	5	-	-	2-3	2-3	5700	1	*
Felixstowe	1012·8	-4	ENE	4	z	56	97	5	-	4	1	0	Tr	-	1	2
Gorleston	1014·5	0	E	3	z	56	92	5	5	3	-	7-8	7-8	1500	0	2
Mildenhall	1012·7	-6	E	3	m	55	92	4	5	-	-	4-6	4-6	1000	0	*
Cranwell	1013·9	-2	E'N	3	df	54	97	2	-	-	-	10	10	<150	1	*
Birmingham	1011·0	-6	ENE	3	m	55	92	4	6	-	-	10	10	800	1	*
Upper Heyford	1011·0	-4	E'N	3	z	56	92	5	-	4	2	0	4-6	-	1	*
Ross-on-Wye	1010·2	-4	NE	1	m	54	97	4	-	-	1	0	Tr	-	1	*
Hartland Point	1016·6	+2	NE	3	c	58	92	6	5	9	-	2-3	9+	1500	0	2
Bristol	1009·8	+6	E	1	z	57	92	5	-	4	2	0	2-3	-	1	*
Portland Bill	1008·6	+6	E	4	c	56	92	7	5	-	-	10	10	2500	1	4
Plymouth	1006·9	+2	E	4	z	59	92	6	5	7	-	4-6	9+	1400	0	2
The Lizard	1006·1	0	E	4	o	58	97	5	5	-	-	10	10	1500	0	2
Scilly (St. Mary's)	1005·0	+2	SE'E	3	c	57	97	6	5	-	-	10	10	1500	1	3
Guernsey																
Pembroke	1006·7	*	SE'E	6	z	59	85	6	-	7	8	0	9+	-	1	2
Holyhead	1007·3	+2	ENE	4	c	56	97	7	-	7	4	0	7-8	-	1	2
Chester (Sealand)	1011·1	-6	ESE	2	c	56	92	5	5	-	-	10	10	1100	1	*
Manchester	1012·1	0	E	4	m	55	85	4	5	2	-	7-8	10	1500	1	*
Spurn Head	1014·1	0	E'N	4	o	55	85	7	5	-	-	10	10	2500	0	3
Catterick	1015·1	-2	SE	1	z	52	85	6	5	-	-	10	10	1300	1	
Tynemouth	1017·1	0	SE	4	z	52	85	6	5	-	-	9+	9+	2800	1	2
St. Abbs Head	1015·1	-2	SE	4	z	51	85	6	5	2	-	7-8	10	2000	0	3
Leuchars	1016·1	-2	ESE	4	z	52	85	6	5	-	-	10	10	1200	1	*
Renfrew (Abbots I.)	1013·2	-2	E'N	3	rr	50	92	5	6	2	-	7-8	10	2100	1	*
Eskdalemuir	1014·2	0	E'N	3	c	49	92	6	5	-	-	10	10	800	1	*
Point of Ayre	1009·9	-4	SE'S	6	c	55	92	7	-	2	-	0	10	-	0	4
Tiree	1008·1	-2	E'S	4	c/p	53	92	7	5	-	-	9+	9+	1500	1	4
Stornoway	1012·2	-8	E	6	c	53	75	7	5	7	-	9	10	2500	1	3
Dalwhinnie	1015·2	0	SE	2	c	48	85	6	5	1	-	9	10	1500	0	*
Aberdeen	1017·7	-2	SE'S	4	o	52	92	6	5	-	-	10	10	1800	1	2
Wick	1017·6	0	SSE	6	c	51	92	6	5	2	-	7-8	10	800	1	3
Lerwick	1022·2	0	ES	4	c	48	92	7	5	3	-	4-6	9	800	0	*
Blacksod Point	1001·1	0	W	3	pp	52	97	6	6	-	-	10	10	<150	2	3
Malin Head	1005·4	-14	SSE	5	z	54	85	5	6	1	-	4-6	9+	800	0	4
Aldergrove	1007·7	-10	ESE	4	m	53	92	4	6	-	-	10	10	500	1	*
Birr Castle	1003·5	-2	SSE	2	pp	58	97	7	6	2	-	7-8	10	1500	1	*
Valentia Obsy. †	1004·7	+10	-	0	c/r	52	92	8	5	-	-	9+	9+	800	1	3
Roches Point	1003·0	0	SE'S	5	dr	56	97	9	5	-	-	10	10	450	1	4

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 19th (37)	13h.—18h. 19th (38)	18h. 19th to 1h. 20th (39)	1h.—7h. 20th (40)
London (Kew)	fidom,bz	bbczbm	bmmw	bmw
Croydon	cbcm	bm	bmw	bm,w
S. Farnborough	omcmb	bzcm	f	bFwmf
Boscombe Down	cmbcm	bcm	bc	bmjf
Calshot (Soton.)	bccmbcm	bcm	bcmbml	bmbm
Lympne	cmbcm	bcm	bmw	b
Manston	offcmbm	bmbbm	bmbm	b
Shoeburyness	omcm	bcc bm	bmw	bmwbm
Felixstowe	om	ombm	bmbmw	bmmw
Gorleston	czz	czz	cbzw	bzw
Mildenhall	cm	cm bcm	bcmbmcm	cmw
Cranwell	c	cc ddmdff	c	cdfcff
Birmingham	orid	dom	om	om
Upper Heyford	oddf	ofbcm	mbdfm	bmof
Ross-on-Wye	om	om bcm	bmcm	cmbmw
Hartland Point	cir	c	c	circ
Bristol	cm	cbcbm	bc cmw	cbcbcmw
Portland Bill	oc	c	bc	c
Plymouth	cmbcmcm	cm	bcmdr	cmcmdd
The Lizard	com	ompro	ddcpr	cFF
Scilly (St. Mary's)	c	c	odd f	odfcrr
Guernsey				
Pembroke	om icqbc	zc	rmc	c
Holyhead	crc	crbc	cmc	c
Chester (Sealand)	cmc	com	cbccm	cmw
Manchester	miridm	cmm	cmbmbm	bcmbm
Spurn Head	c	o	c	oc
Catterick	crcmc	rrcm	mddm	omdd
Tynemouth	c	c	c	co
St. Abbs Head	c	c	cqm	bcmq
Leuchars	c	cirm	cirmcm	ircmid
Renfrew (Abbots I.)	cmmc	cmlrRcr	cmrKir	cm
Eskdalemuir	c	crrc	orc	cir
Point of Ayre	qqc	c	c	rrc
Tiree	c	coip	cir	cor
Stornoway	c	c	cpr	cpr
Dalwhinnie	oc	co		oid
Aberdeen	cir	ocm	oiro	bz
Wick	cm	prmc	mqc	mprc
Lerwick	c	c	c	c
Blacksod Point	pp	pp	c	bc
Malin Head	c	cprRczz	czcrc	crrc
Aldergrove	cmirm	idirm	cmcmc	rrRRirc
Birr Castle	cir	cirrr	crr	c
Valentia Obsy. †	rrrr	rrirc	cbcbbc	cbcwrr
Roches Point	DDid	dddr	cdrirc	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.
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.*

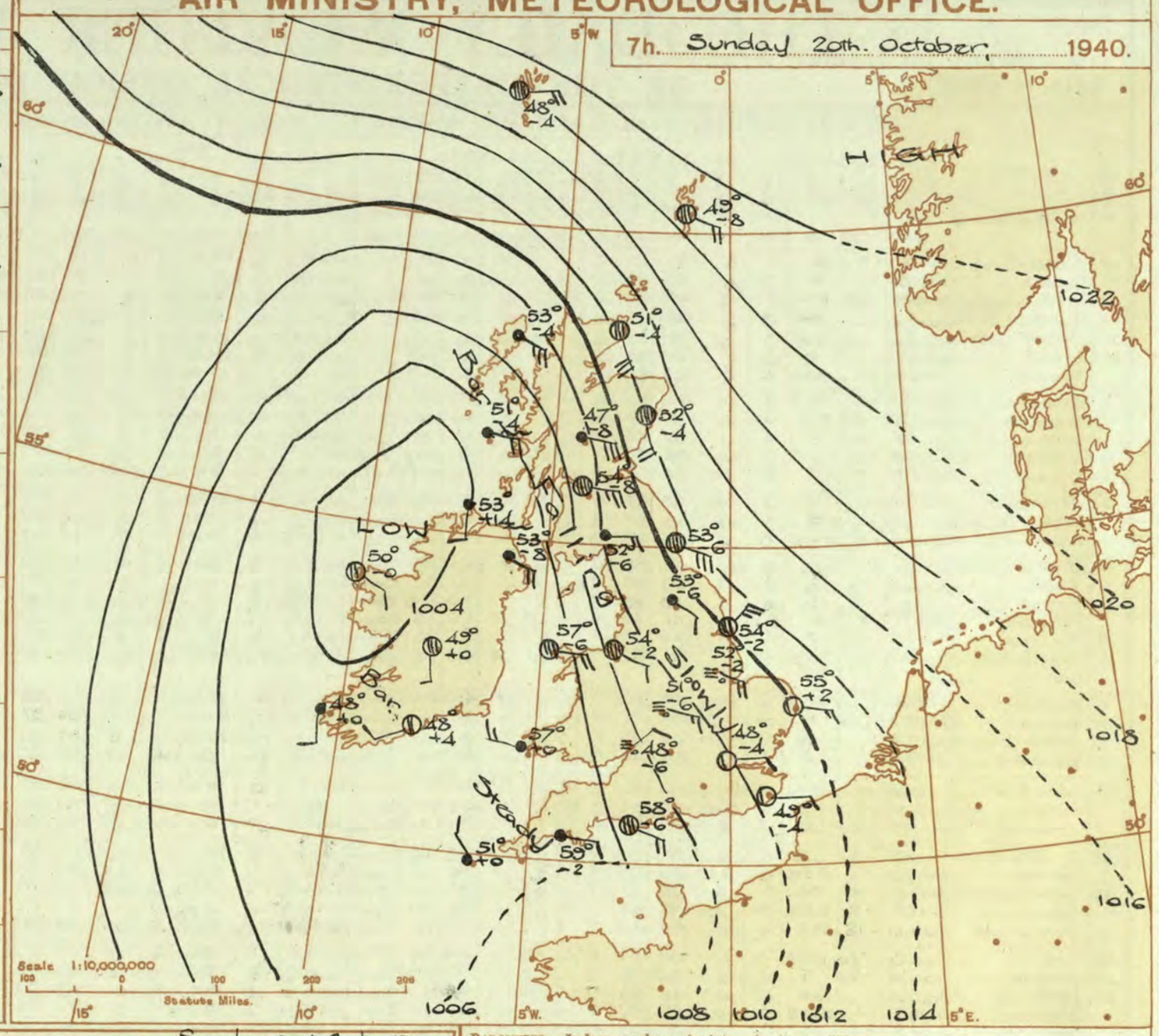
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 20th. October, 1940.

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.		
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
109	52	03636	03558	52	02645	11526	52	03646	12628	52	02646	44528
115	52	02844	12527	52	14734	45727	52	62735	45768	82	62824	41667
203												
206	5-	02748	07458	57	02754	08425	52	61647	08468	5-	62648	08368
210	52	02846	08858	62	05645	09328	5-	22648	10568	5-	02757	12567
220	=3	01830	11305	52	81745	13428				6-	64638	17568
230				5-	62758	08428	53	02854	41424	52	02755	12428
245	5-	05638	10328	5-	81658	09428	5-	21648	10458	6-	22638	45568
260	5-	02858	08328	5-	62548	06268	57	22645	06467	52	02736	41428
277	52	02757	10568	5-	22748	08468	52	05647	10428	52	01647	10568
279							--	05658	08628	--	05655	08625
285	6-	61638	12568	6-	03528	12568						
288	5-	62658	08328	57	02655	07268	5-	05648	09228	5-	05638	07256
273	34	65634	15338							32	63654	12266
301	53	22534	11466	57	22555	10467	5-	05565	10415	57	05564	10315
321	5-	02758	06368	5-	62628	08368	5-	05538	12128	5-	05638	12228
299	57	02745	08487	5-	02748	09428	5-	02748	09428	5-	05548	08428
292	57	02744	08268	5-	02758	08928	5-	05638	10258	5-	21528	10358
310	--	46109	04549									
316	62	02636	06328	6-	57218	08258						
333	57	22663	08467	57	05664	08426	52	05655	06468	57	05655	08327
334												
340	5-	05538	07358	5-	21458	07458	50	05543	10513	5-	08447	10427
136				5-	05528	07428						
336	--	57422	12458									
350	5-	08418	06358							5-	41417	07347
368												
379				00	08430	08312	03	47130	08444	40	45351	08341
390	50	05641	08551	00	05530	09413	00	45330	08340			
382	53	05634	03324	08	05630	08214	03	08430	08300	04	05530	06201
438	50	01523	06413							50	01533	08403
430	00	05630	07514	00	05630	08214	00	05530	08300			
409	53	05534	08425	53	05663	09426	5-	05668	13368	5-	62638	16268

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 20th Oct. 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light to moderate S.E. wind; fair, with little or no cloud today, local mist or fog inland tonight; average temperature.
5 S.W. England 6 South Wales ...	Light variable wind; cloudy, rain or drizzle at times, hill fog; average temperature.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Fresh S.E. wind, moderating; cloudy, occasional rain, average temperature.
10 N.E. England 11 S.E. Scotland	Moderate or fresh S.E. wind, strong at first on coasts; cloudy, slight local rain or drizzle; average temperature
12 S.W. Scotland & Isle of Man. 13 {A. W. Scotld. B.N.W.Scotland.} 14 Mid Scotland	Moderate or fresh S.E. wind; cloudy; occasional rain; average temperature.
15 N. E. Scotland 16 Orkneys and Shetlands	As 10-11.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate variable wind; mainly cloudy; rain at times but some bright intervals; average temperature.

GENERAL INFERENCE.

A complex depression covers the western districts of the British Isles, and pressure is high from Iceland to the Baltic. Weather will be cloudy with occasional rain or drizzle in the West and North, but it will be fair in the S.E. Local fog will occur in England tonight

FURTHER OUTLOOK.

Occasional rain in the West and Northwest, fair in the S.E. apart from fog night and morning

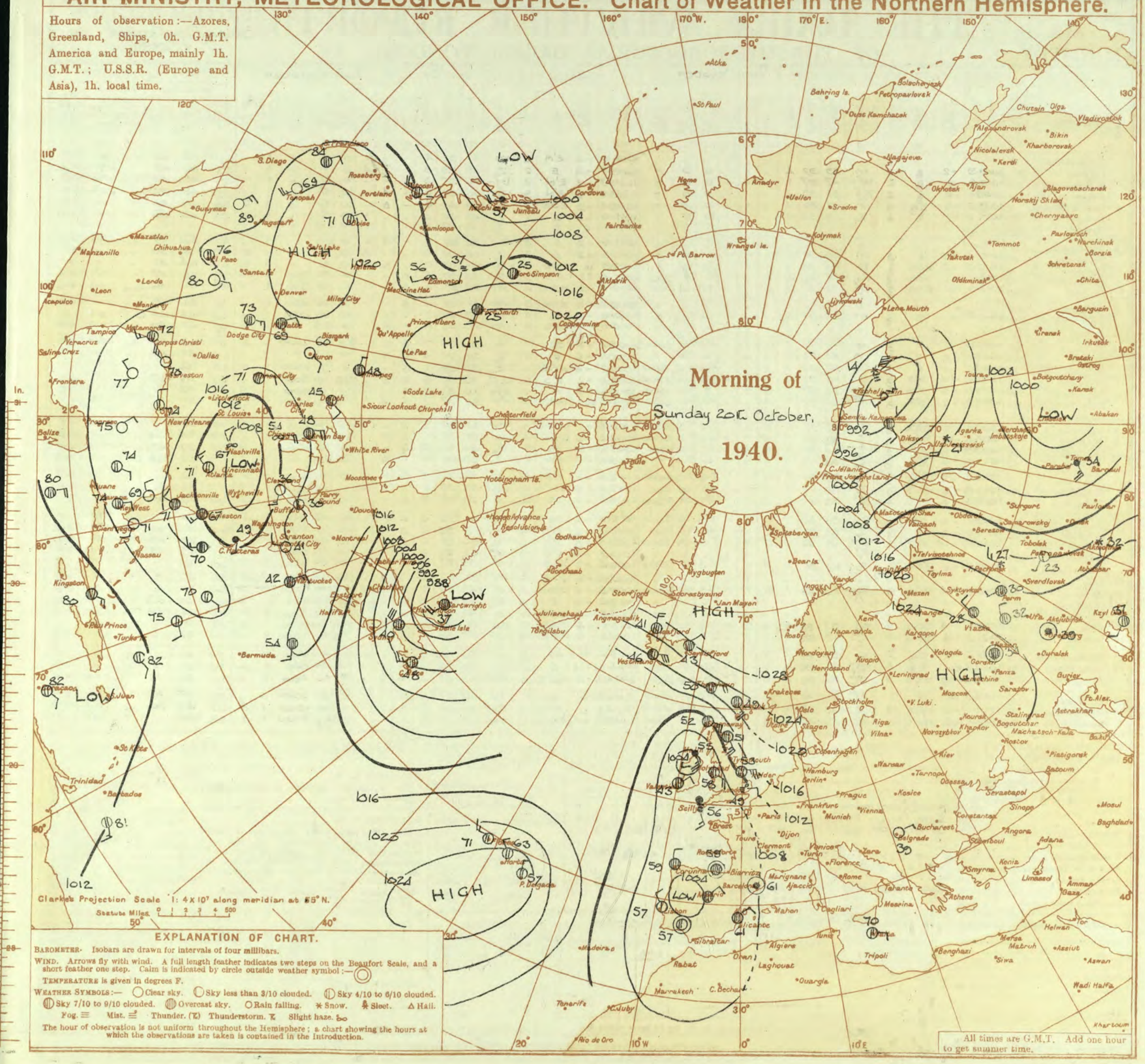
Forecasts issued at 1030h G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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 20th October 1940.
No. 28822

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	1010·9	-2	E	2	m	49	97	4	-	-	-	0	0	-
	S. Farnborough	226	1010·5	0	E	2	bF+	47	97	1	-	-	-	0	0	-
	Boscombe Down	417	1009·1	-2	E	2	bjf	52	92	4	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1009·2	-2	E'S	3	m	57	92	4	-	-	-	0	0	-
	Lympne	346	1012·2	+2	E	4	z0	53	85	6	-	-	-	0	0	-
	Manston	154														
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1012·4	-2	E	3	m	56	97	4	-	-	-	0	0	-
	Gorleston	5	1013·9	-2	ESE	4	b	55	92	6	-	-	-	0	0	-
	Mildenhall	19	1012·0	-2	ESE	3	m	56	92	4	5	-	-	9	9	700
	Cranwell	240	1013·0	-2	ESE	3	of	53	97	3	5	-	-	10	10	500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1011·0	0	E	2	m	49	97	4	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1005·8	-2	E	3	c	57	97	7	5	7	-	2-3	9	2500
	Bristol	209	1009·0	-8	E	1	m	54	92	4	-	3	-	0	9+	-
	Portland Bill	32	1007·7	-4	E	3	bc	57	92	7	5	-	-	4-6	4-6	4000
	Plymouth	82	1006·2	-10	E'S	3	c	59	92	5	5	7	-	2-3	10	2500
	The Lizard	240	1005·9	-6	E'S	3	pr	58	97	7	5	2	-	9	10	1000
	Scilly (St. Mary's)	163	1005·3	-2	S'E	3	dF	56	97	1	-	-	-	10	10	<150
	Guernsey	175														
6	Pembroke	142	1006·0	-2	SE'E	5	c	57	97	6	5	2	-	4-6	10	800
7	Holyhead	26	1005·6	-12	ESE	4	c	58	85	7	5	7	-	4-6	10	5000
	Chester (Sealand)	16	1009·9	-8	SE	4	z0	54	85	5	6	3	-	4-6	10	1500
8	Manchester	70	1011·0	-4	E'S	3	z0	54	85	5	-	3	-	0	2-3	-
10	Spurn Head	29	1013·0	-2	E'S	5	c	53	97	7	5	-	-	7-8	7-8	4000
	Catterick	175	1013·8	-8	SE'S	2	z0	53	92	6	-	2	-	10	10	600
	Tynemouth	108	1016·5	-4	ESE	5	c	52	92	6	5	-	-	9+	9+	2800
11	St. Abbs Head	280	1013·7	-8	SE	6	cq	51	85	7	5	2	-	7-8	10	2000
	Leuchars	36	1014·0	-8	E	4	z0	52	85	6	5	-	-	10	10	900
12	Renfrew (Abbots I.)	19	1011·0	-14	E'S	4	S/r	51	92	6	5	3	-	7-8	9+	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1008·9	-6	SSE	5	c	55	92	7	5	2	-	7-8	10	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1010·8	-4	ESE	5	%pr	52	85	7	5	7	-	7-8	9+	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1016·2	-6	SSE	6	cq	52	85	6	5	2	-	7-8	10	800
16	Lerwick	156	1021·3	-4	SE'E	5	c	49	85	7	8	7	-	7-8	10	800
17	Blacksod Point	18	1003·2	-2	SE	2	c	52	85	7	9	-	-	9+	9+	800
18	Malin Head	84	1004·4	0	S'E	5	r0r0	55	92	5	6	-	-	9+	9+	800
	Aldergrove	268	1006·0	-12	SE'E	5	rr	54	92	5	6	2	-	9	10	800
19	Birr Castle	173	1004·3	0	S	1	rr	51	97	7	6	2	-	7-8	10	1500
20	Valentia Obsy.	30	1005·1	-2	NE'E	2	c	43	97	8	7	-	-	7-8	7-8	4000
	Roches Point	22	1005·1	+6	NW'W	3	c	52	97	8	6	2	-	7-8	9	1500

OBSERVATIONS at 7 hr. G.M.T. 20th 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)
London (Kew)	1010·0	-6	E'N	2	m	52	92	4	-	-	-	0	0	-
Croydon	1009·7	-4	E	2	z0	48	85	5	-	-	4	0	1	-
S. Farnborough	1009·7	-2	E'N	2	bf+	46	97	3	-	-	-	0	0	-
Boscombe Down	1008·2	-2	E'N	3	z0	50	92	5	-	4	-	0	Tr	-
Calshot (Sthmtn.)	1008·1	-2	ESE	5	z0	55	85	6	-	3	-	0	Tr	-
Lympne	1011·6	-4	E	2	z0	49	92	6	-	-	1	0	Tr	-
Manston	1011·0	0	E	2	z0	53	97	5	-	-	1	0	2-3	-
Shoeburyness	1011·6	-2	E	3	b	54	92	5	-	4	4	0	2-3	-
Felixstowe	1011·8	+2	E	3	z0	55	97	5	-	-	8	0	1	-
Gorleston	1012·9	0	ESE	3	b	55	85	6	-	5	-	0	1	-
Mildenhall	1011·4	+2	E'S	3	z0	53	97	5	5	-	-	9+	9+	500
Cranwell	1012·5	-2	ESE	4	m	52	97	4	5	-	-	10	10	800
Birmingham	1009·5	-6	ESE	3	m	51	97	4	5	-	-	10	10	450
Upper Heyford	1010·0	-2	E	2	f+	49	97	2	-	-	-	10	10	<150
Ross-on-Wye	1008·5	-6	ENE	2	m	48	97	4	-	5	-	0	2-3	-
Hartland Point	1004·7	-4	SE	3	c	58	97	7	5	2	-	7-8	10	2000
Bristol	1008·1	-6	E	2	z0	52	92	6	-	3	-	0	2-3	-
Portland Bill	1006·7	-6	ESE	4	c	58	92	7	5	-	-	9	9	4000
Plymouth	1005·8	-2	E'S	2	d0d0	59	97	5	6	2	-	7-8	10	900
The Lizard	1006·0	+4	—	0	of+	56	97	2	5	-	-	10	10	600
Scilly (St. Mary's)	1005·3	0	NNW	2	rr	51	97	7	6	2	-	7-8	10	1200
Guernsey														
Pembroke	1004·6	0	WNW	3	rr	57	97	5	8	-	-	9+	9+	600
Holyhead	1004·4	-6	ESE	4	c	57	92	7	3	7	-	4-6	9+	3500
Chester (Sealand)	1008·6	-2	SE	2	z0	54	85	5	5	-	-	10	10	1500
Manchester	1009·4	-6	E'S	3	z0	53	85	5	-	4	-	0	2-3	-
Spurn Head	1012·4	-2	E'S	5	c	54	92	7	5	-	-	9+	9+	4000
Catterick	1012·3	-6	SW'S	2	d0d0	53	97	4	-	2	-	10	10	400
Tynemouth	1014·5	-6	SE	6	o	53	92	6	5	-	-	10	10	800
St. Abbs Head	1012·2	-4	SE	6	cq	51	92	6	6	2	-	9	10	1500
Leuchars	1013·4	-4	E	4	%r	52	92	6	5	-	-	10	10	900
Renfrew (Abbots I.)	1009·5	-8	E'S	5	z0	54	85	6	5	-	-	10	10	1200
Eskdalemuir	1010·9	-6	E'S	3	ir0	52	92	6	5	-	-	10	10	800
Point of Ayre	1006·4	-2	SSE	6	c	55	92	7	5	-	-	9+	9+	2500
Tiree	1004·5	-4	ESE	4	rr	51	97	6	-	2	-	10	10	1200
Stornoway	1009·5	-4	ESE	5	pr	53	92	7	5	1	-	4-6	10	2000
Dalwhinnie	1012·4	-8	E	6	id0	47	92	5	5	-	-	10	10	800
Aberdeen	1015·6	-4	SSE	4	o	52	85	6	5	-	-	10	10	800
Wick	1013·1	-4	SSE	6	cq	51	92	7	5	7	-	7-8	10	1500
Lerwick	1020·4	-8	ESE	4	c	49	85	8	5	7	-	7-8	9	1500
Blacksod Point	1003·4	0	SE	2	bc	50	85	8	3	-	-	4-6	4-6	1500
Malin Head	1004·0	+14	S	2	rr	53	92	6	6	-	-	9+	9+	800
Aldergrove	1004·3	-8	SE'E	4	RR	53	97	4	6	2	-	9	10	600
Birr Castle	1004·5	0	S	1	c	49	97	8	5	-	-	9	9	2500
Valentia Obsy.	1004·3	0	S'W	2	r0r0	48	92	6	5	2	-	1	10	1500
Roches Point	1005·5	+4	WSW	2	bc	48	92	8	5	-	-	4-6	4-6	2500

PAST 24 HOURS.

Stations	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 19th. Hrs. (36)
London (Kew)	1	*	61	52	43	0·1	0·1	3·8
Croydon	1	*	63	46	43	-	Tr.	0·4
S. Farnborough	1	*	65	44	40	Tr	Tr	3·2
Boscombe Down	1	*	66	49	46	-	0·1	3·9
Calshot (Sthmtn.)	1	2	63	55	53	-	—	6·7
Lympne	1	§2	65	49	46	-	—	7·9
Manston		*						
Shoeburyness	1	*	60	54	49	-	Tr	3·3
Felixstowe	1	2	58	54	50	-	—	1·4
Gorleston	1	2	56	54	51	-	—	*
Mildenhall	1	*	59	53	47	-	Tr	0·0
Cranwell	1	*	59	51	46	0·4	0·1	0·0
Birmingham	1	*	56	50	45	1	—	0·0
Upper Heyford	1	*	60	48	44	0·1	0·1	*
Ross-on-Wye	1	*	58	47	40	-	0·1	0·0
Hartland Point	0	2	61	56	55	Tr	Tr	0·2
Bristol	1	*	63	51	42	-	—	0·5
Portland Bill	1	3	59	54	*	-	—	*
Plymouth	1	1	63	58	55	-	1	4·2
The Lizard	1	1	61	56	*	0·5	1	2·6
Scilly (St. Mary's)	1	2	62	51	*	-	18	0·7
Guernsey								
Pembroke	1	2	60	50	*	0·2	10	1·7
Holyhead	0	2	59	54	50	0·2	—	0·5
Chester (Sealand)	1	*	56	52	47	0·2	Tr	0·0
Manchester	1	*	57	52	48	0·1	—	0·0
Spurn Head	0	3	56	53	*	—	—	0·3
Catterick	1	*	52	51	51	0·6	0·1	0·0
Tynemouth	1	3	53	52	50	—	—	*
St. Abbs Head	0	3	51	50	*	-	Tr	*
Leuchars	1	*	54	51	50	Tr	Tr.	0·0
Renfrew (Abbots I.)	1	*	53	50	48	3	3	0·0
Eskdalemuir	1	*	51	48	48	1	0·5	0·0
Point of Ayre	1	3	55	54	*	0·1	0·2	0·0
Tiree	1	4	56	52	*	1	4	0·2
Stornoway	1	3	54	51	*	—	2	1·3
Dalwhinnie	1	*	50	46	39	-	0·1	0·0
Aberdeen	1	3	52	51	50	Tr	Tr	0·0
Wick	1	3	52	51	*	Tr	0·1	*
Lerwick	1	*	52	47	*	—	—	4·8
Blacksod Point	0	2	55	49	*	19	—	*
Malin Head	1	4	54	50	*	1	8	0·0
Aldergrove	2	*	53	53	51	1	14	0·0
Birr Castle	1	*	58	49	47	5	25	0·0
Valentia Obsy.	1	3	52	42	36	20	0·6	0·0
Roches Point	1	3	58	48	*	7	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	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	fidpmfz	bbcz0bm	bm0w	61	52	43	0·1	0·1	3·8	•	•	4
Croydon	217	cbcm0	bm0	bmwbm	63	46	43	-	Tr	0·4	•	•	5
Greenwich (Royal Observatory)	149	cb	cbcb	wm	60	49	41	-	-	3·6	80	93	4
City (Bunhill Row)	—	•	•	•	•	•	•	•			•	•	•
Westminster (St. James' Park)	27	•	•	•	62	53	47	Tr			83	94	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•									•
Camden Square	110	o	b	•	56	50	43	-	-	•	•	95	•
Kensington	80	cbc	bcz	•	63	52	46	Tr	0·1		95	97	•
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.
0·2	8h. 19th.	0·1	24h. 19th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 19th October Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 20th 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.
Paris														
Brussels														
Berlin														
Zürich														
Rome											•	•		

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	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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ 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.

BRITISH SECTION

Monday 21st October 1940.

No. 28823

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)	1008.3	-12	E'N	3	z	63	65	5	-	-	-	0	0	-
	Croydon	1008.8	-6	E	2	z₀	62	75	6	·	-	4	0	Tr	-
	S. Farnborough	1008.0	-10	SE	3	z	61	65	6	·	·	1	0	Tr	-
	Boscombe Down	1007.6	-6	SE	4	z	60	85	6	5	-	-	9+	9+	1200
	Calshot (Soton.)	1008.1	-2	SE'E	4	z	59	92	6	5	3	-	2-3	4-6	3500
	Lympne	1010.5	-6	ESE	1	z	62	55	6	-	·	-	0	0	-
	Manston	1009.8	-10	SE'E	3	z	60	75	6	-	-	1	0	Tr	-
2	Shoeburyness	1010.1	-10	E	3	b	59	85	6	-	4	-	0	Tr	-
	Felixstowe	1010.4	-10	ESE	3	z	59	75	5	-	-	1	0	Tr	-
	Gorleston	1011.9	-12	ESE	3	bc	56	85	6	-	7	-	0	2-3	-
	Mildenhall	1009.5	-14	ESE	4	z	64	65	6	-	-	1	0	1	-
	Cranwell	1010.5	-14	E	4	z	61	75	6	·	·	-	0	0	-
3	Birmingham	1007.9	-14	SE	3	c	59	75	6	·	3	-	0	7-8	-
	Upper Heyford	1008.4	-10	ESE	3	z	64	65	6	·	-	1	0	Tr	-
4	Ross-on-Wye	1007.3	-6	SE'S	2	z₀	59	85	5	5	-	-	9+	9+	4000
5	Hartland Point	1006.7	+12	WNW	3	d	51	97	6	6	2	-	7-8	10	700
	Bristol	1007.0	-8	SE	2	z	60	85	6	5	-	-	9+	9+	4000
	Portland Bill	1006.6	-8	SE	3	c	59	92	7	5	-	-	10	10	4000
	Plymouth	1006.3	+2	NW	2	z	59	92	5	6	2	-	7-8	10	500
	The Lizard	1007.6	+2	WNW	3	c	53	97	8	8	2	-	7-8	9+	2800
	Scilly (St. Mary's)	1007.5	+6	SW	1	c	55	85	8	5	7	-	4-6	7-8	1500
	Guernsey														
6	Pembroke	1006.7	+6	NE'N	1	pp	49	97	6	8	7	-	9	9+	800
7	Holyhead	1005.0	+6	NW'W	5	pp	54	97	6	6	2	-	7-8	10	500
	Chester (Sealand)	1006.4	-18	SE	4	z	59	75	5	5	-	-	9+	9+	4500
8	Manchester	1007.8	-14	ESE	4	z₀	62	65	6	-	3	-	0	2-3	-
10	Spurn Head	1010.5	-6	E	5	bc	55	85	6	5	-	-	4-6	4-6	4000
	Catterick	1011.1	-10	SE	3	d₀d₀	54	92	6	·	2	-	10	10	800
	Tynemouth	1013.8	-4	SE	5	id₀	52	97	5	-	2	-	10	10	500
11	St. Abbs Head	1011.2	-8	SE	7	ir₀	51	92	7	5	2	-	7-8	10	1500
	Leuchars	1012.5	-6	E	5	z₀	53	85	6	5	2	-	9+	10	800
12	Renfrew (Abbots I.)	1007.5	-8	E'N	4	z	54	85	6	5	3	-	9+	10	1500
	Eskdalemuir	1009.3	-14	SE'E	3	c	53	85	6	5	3	-	9	9+	800
	Point of Ayre	1005.5	-12	SSE	5	c	56	92	6	5	2	-	7-8	10	2500
13A	Tiree	1005.1	0	ESE	3	pp	54	97	6	-	2	-	10	10	800
13B	Stornoway	1009.3	-6	E	6	c	53	85	7	5	7	-	7-8	9+	2000
15	Dalwhinnie	1010.5	-6	ESE	6	bc	49	85	5	8	4	-	2-3	4-6	800
	Aberdeen	1014.6	-6	SE	4	o	52	85	6	5	-	-	10	10	800
	Wick	1014.5	-4	SSE	6	cq	51	85	7	5	7	-	7-8	10	1500
16	Lerwick	1019.9	-8	E'S	4	c	49	85	8	5	7	-	7-8	9	1500
17	Blacksod Point	1003.3	-2	S	2	pp	50	85	8	3	-	-	9	9	2500
18	Malin Head	1004.9	0	E	3	r₀c	51	92	7	6	7	-	2-3	9	800
	Aldergrove	1000.9	-2	E'N	1	r₀c	49	97	7	-	2	-	10	10	1600
19	Birr Castle	1004.3	-4	S'W	1	c	57	92	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy. †	1003.5	-6	SSW	4	bc	56	65	9	3	-	-	2-3	2-3	2500
	Roches Point	1005.1	-6	SW	3	c	55	85	9	3	3	-	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 20th 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)	1008.2	+4	ENE	1	m	56	85	4	5	-	-	4-6	4-6	2500	1	*
Croydon	1008.4	-2	E	2	z₀	58	97	5	5	4	-	7-8	7-8	4000	1	*
S. Farnborough	1008.1	+2	S	3	z	60	85	5	5	-	-	10	10	4000	0	*
Boscombe Down	1007.3	+2	SE	3	z	58	97	5	5	-	-	10	10	800	0	*
Calshot (Soton.)	1008.0	+2	E'N	1	z₀	58	92	6	5	-	-	10	10	2500		
Lympne	1010.0	0	-	0	m	55	97	4	-	-	-	0	0	-	1	§
Manston	1008.9	-2	SE'E	3	m	56	92	4	-	-	-	0	0	-		*
Shoeburyness	1009.4	-2	E'S	2	m	56	92	4	-	-	-	0	0	-	1	*
Felixstowe	1009.1	-6	E'S	3	z	55	92	5	-	-	-	0	0	-	1	1
Gorleston	1010.2	-4	SE'E	3	z₀	55	85	5	-	-	-	0	0	-	0	2
Mildenhall	1008.6	-2	E'S	2	z₀	58	75	6	-	4	-	0	Tr	-	0	*
Cranwell	1009.3	-2	E	3	z	52	92	5	-	-	-	0	0	-	0	*
Birmingham	1006.9	-6	ESE	2	z	59	75	5	5	-	-	10	10	2500	1	*
Upper Heyford	1007.9	-2	ESE	1	m	59	85	4	5	-	-	9+	9+	2500	1	*
Ross-on-Wye	1006.1	-6	S'E	2	z₀	60	85	6	5	-	-	10	10	800	1	*
Hartland Point	1007.2	+2	S	1	c	49	92	8	2	2	-	2-3	9	1500	1	2
Bristol	1007.2	+8	WSW	2	d₀d₀	58	97	6	6	2	-	7-8	10	700	1	*
Portland Bill	1006.6	+10	S	3	o	59	92	7	5	-	-	10	10	2500	1	3
Plymouth	1007.7	+10	NNW	2	id₀	51	92	5	6	7	-	4-6	9+	800	1	1
The Lizard	1008.8	+4	W	1	c	53	92	8	8	6	-	7-8	7-8	2000	1	2
Scilly (St. Mary's)	1007.4	+2	S'W	2	bc	53	85	8	8	4	2	2-3	4-6	1500	1	2
Guernsey																
Pembroke	1007.0	0	SE	2	c	50	97	7	8	6	-	7-8	9	800	1	2
Holyhead	1006.8	+6	SE'S	2	r₀r₀	49	97	6	6	2	-	4-6	10	1000	1	1
Chester (Sealand)	1006.7	+6	NWN	4	r₀r₀	54	85	5	-	2	-	10	10	1800	1	*
Manchester	1006.7	-2	E	4	of+	59	75	3	5	-	-	10	10	3500	1	*
Spurn Head	1009.1	-2	E	5	bc	54	85	6	-	7	-	0	4-6	-	0	3
Catterick	1010.0	+2	-	0	z	53	92	6	5	2	-	9+	9+	2000	1	
Tynemouth	1012.4	-4	SE	5	o	53	92	7	5	-	-	10	10	1500	1	3
St. Abbs Head	1010.1	+2	SE	7	oq	51	92	6	5	-	-	10	10	1500	1	4
Leuchars	1011.5	-2	ESE	4	z	52	92	6	5	-	-	10	10	700	1	*
Renfrew (Abbots I.)	1007.2	0	E	4	ir₀	54	92	5	5	-	-	10	10	1400	1	*
Eskdalemuir	1008.9	0	E	2	c	51	92	6	5	-	-	10	10	450	1	*
Point of Ayre	1006.4	+10	NNW	3	rr	50	97	7	8	2	-	9	10	1500	1	2
Tiree	1005.1	+4	-	0	r₀r₀	50	97	6	-	2	-	10	10	800	1	2
Stornoway	1008.8	+2	ESE	6	c	53	85	6	5	2	-	7-8	10	2000	1	3
Dalwhinnie	x	-4	ESE	6	id₀	40	92	5	5	-	-	10	10	800	1	*
Aberdeen	1013.5	-2	SE	4	o	51	85	6	5	-	-	10	10	1500	1	3
Wick	1013.8	+2	SSE	6	cq	51	85	7	5	2	-	7-8	10	1500	1	3
Lerwick	1019.1	-2	E	4	c	49	85	8	8	7	-	7-8	9	1500	1	*
Blacksod Point	1010.3	-4	S	1	c	51	85	8	3	-	-	7-8	7-8	2500	0	2
Malin Head	1004.7	+4	E	1	c	50	85	8	8	8	1	2-3	7-8	1500	1	3
Aldergrove	1006.4	+10	SE'E	2	c/p	48	92	6	5	2	-	9	9+	2300	2	*
Birr Castle	1004.4	+2	S	1	bc	49	85	8	5	-	-	2-3	2-3	2500	1	*
Valentia Obsy. †	1002.8	-2	S'E	3	c	48	85	9	3	7	6	2-3	7-8	4000	0	2
Roches Point	1004.3	-6	SW'W	3	c	54	75	9	6	2	-	4-6	7-8	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 20th (37)	Weather 13h.—18h. 20th (38)	Weather 18h. 20th to 1h. 21st (39)	Weather 1h.—7h. 21st (40)
London (Kew)	bmwz	bzbcm	bccm	cm₀, id₀m₀
Croydon	cmzm		c	cm₀
S. Farnborough	bfm	bb czcm	cm₀r₀c	cr₀d₀rrc
Boscombe Down		cm	cm₀id₀om₀	crr, dr, cr₀
Calshot (Soton.)	bmbcm	bccm	r	r
Lympne	bmyz	bz	bcfgcm₀	bcrm₀ir₀
Manston	bmbm	bmbm	bmbff	cm₀bcm₀
Shoeburyness	bm	bmbm	bmcfw	cffw
Felixstowe	bmz	bz, m	bmbmw	bcmff
Gorleston	bcz	bcbzz₀	bz₀z₀w	bbcz₀w
Mildenhall	cmw, bz	bzbm	bz₀bmfc	c, nw
Cranwell	bm	bm	bm₀, cmff	FF d₀d₀f
Birmingham	omc	cbcc	o	r
Upper Heyford	ofccmbc	bbcmzc	cmom₀	om₀dr, r₀
Ross-on-Wye	bmcmm	cm	om₀r₀	Rr₀oc
Hartland Point	r₀vrc	ddc		cbc
Bristol	bccm	cmird₀	cd₀d₀r₀r₀m₀	cr, m₀c
Portland Bill	c	c3	o	oc
Plymouth	cmdd dr₀c	cmdd dd	cid₀rrcm₀	
The Lizard	rrc	c	cpr	prcbc
Scilly (St. Mary's)	rrr₀c	cbc	bccp	cbc
Guernsey				
Pembroke	pmrrc	rrc	c	crbc
Holyhead	r₀r₀rrm₀c	rrr₀r₀c	rrr₀r₀c	cir₀c
Chester (Sealand)	cmbcz	cmzo	r₀r₀dd	r₀r₀ir₀
Manchester	bcbmz	bczzf	cm₀	cmr₀r₀rr
Spurn Head	cbc	bc	bz₀	cz
Catterick	omfmdd	od cm	cm₀	cm₀f r₀r₀
Tynemouth	oid₀	oid₀o	o	o
St. Abbs Head	cqir₀	rmqo	ocm₀q	cm₀o
Leuchars	cm	cicm	cm₀rg d₀c	cir₀m₀c
Renfrew (Abbots I.)	cm	cmir₀	cir₀rrR	cRrrr₀r₀
Eskdalemuir	cicc	cm	coir₀	ir₀rr
Point of Ayre	c	rr₀		ir₀c
Tiree	ordr	orr	oRr₀	ordr
Stornoway	cpr	cpr	cpr	pr
Dalwhinnie	cbc	cid		co
Aberdeen	oz	ozo	oz₀	oir₀
Wick	cq	cq	preq	pr
Lerwick	c	c	c	cpr
Blacksod Point	pr₀c	bcc	bc	c
Malin Head	cr₀rc	cr₀rcrrc	bcc pr₀c	c
Aldergrove	RRmcrm	r₀cicm	cpr₀ m₀cm₀	c
Birr Castle	bcc	bc	bccir	c
Valentia Obsy. †	r₀r₀bcbv	bbcvpq	Pr pr₀	pr q iR
Roches Point	bcc	bcc	iriRc	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/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. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄ gale.
⊕ Solar halo. ⊕ lunar halo. ⌂ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29—STATE OF GROUND.

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

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

Abridged observations of additional stations in the

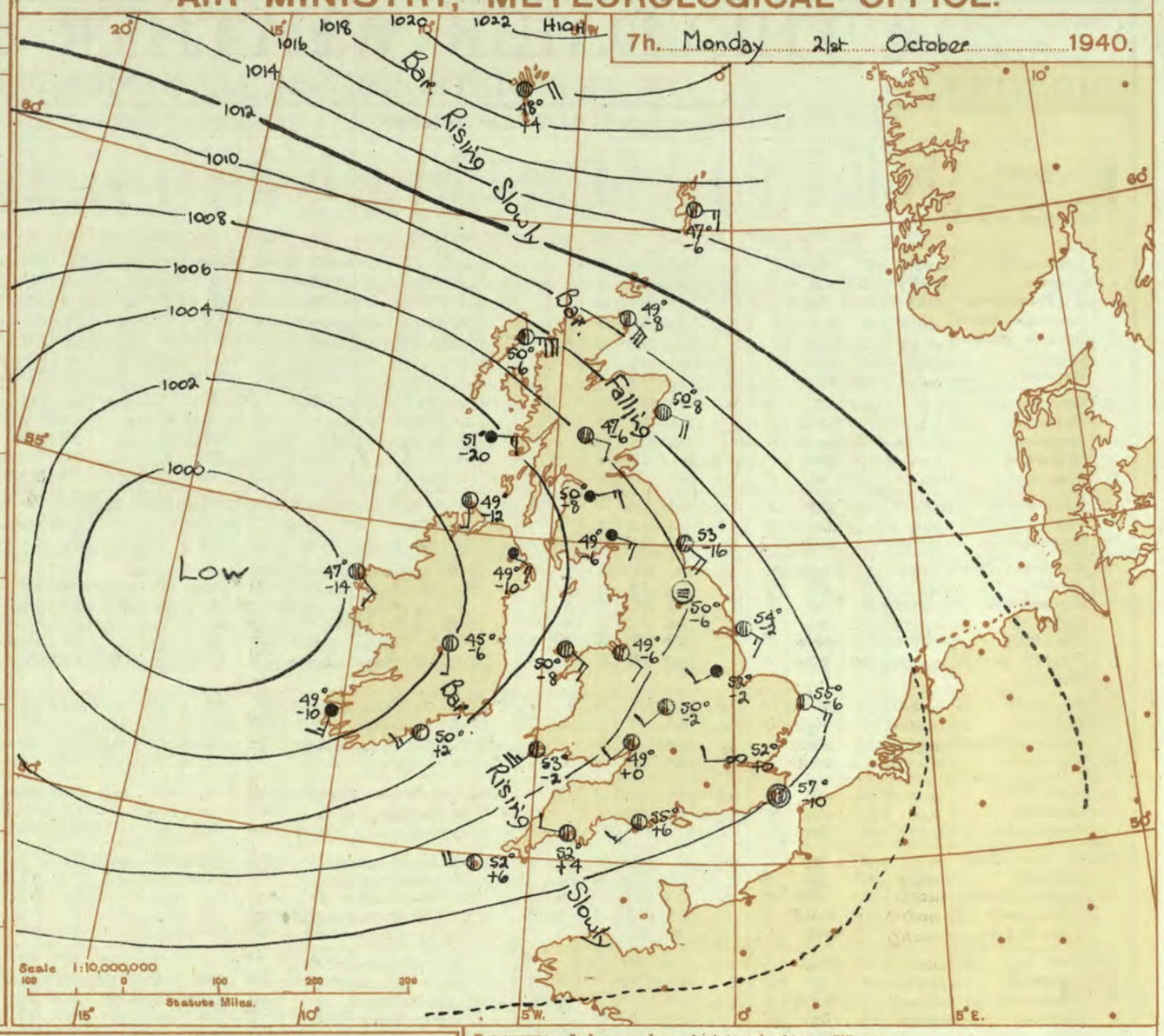
AVIATION WEATHER CODE

	13h. G.M.T. 20th October			18h. G.M.T.			01h. G.M.T. 21st 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	02645	43520	52	02555	11628	5-	51648	43628	5-	03758	41658
115	87	62734	45667	--	81734	45686	52	81744	45887	87	81734	45887
203												
206	57	02744	08525	5-	02758	06428	57	02746	06628	5-	02748	08568
210	5-	02747	45567	56	02746	43627	52	02745	43628	52	02746	42528
220	62	63635	16468	6-	64558	15568				62	66535	14568
230	52	22645	08468	62	62647	08468	52	64644	08268			
245	6-	05638	45528	62	05646	45628	5-	51648	44628	5-	21648	10558
260	57	05636	08327	5-	05535	10468	52	21545	08458	5-	22638	08368
277	52	05640	11468	52	61648	32168	02	62658	23168	5-	22748	08268
279								08458	08428		64448	08368
285										--	67109	08349
288	5-	05638	10428	5-	05638	08328	5-	05564	10114	5-	61548	06128
273												
301	53	05664	12415	52	58546	00028	02	58548	26158	57	62545	14168
321	50	05654	09424	04	05550	08121	5-	47338	10128	5-	67228	12168
299	5-	05648	09428	50	05543	08413	5-	05548	10314	5-	41448	10214
292	5-	05638	09328	00	05630	09100	5-	05538	08228	5-	57328	00058
310										--	64626	24166
316	00	05630	10314	5-	48352	06215	5-	08458	08148			
333	62	62636	24268	6-	64636	00068	5-	02747	00028	8-	25848	14588
334											02427	00027
340	5-	08467	10517	5-	05558	10528	02	61428	30168	53	22445	16267
136							5-	45246	10346			
336											22754	24468
350										5-	52648	24168
368												
379	03	05530	10314	5-	05558	12228	5-	47148	14148			
390	50	05543	08414				5-	08458	15148	57	08456	18228
382	09	05530	11302	5-	05557	00027	5-	05648	12327			
438	00	00630	09200							8-	67008	22268
430	50	05643	10403	5-	05648	12318	5-	05558	00028	5-	22778	26368
409	5-	21628	28158	5-	02776	00066	53	02754	15225	59	01954	21354

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 21st October 1940.



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. 21st October 1940.
1 S.E. England 2 E. England ...	Light variable wind becoming southwesterly light or moderate. Dull with rain in extreme east at first, but fine periods over most of area. Fog in places night and early morning. average temperature.
3 E. Midlands ... 4 W. Midlands ...	Light southwest winds fine periods; but fog in places night and early morning. average temperature.
5 S.W. England 6 South Wales ... 7 North Wales ...	Moderate southwest wind fresh locally on coast, bright periods, occasional showers, average temperatures.
8 N.W. England	Light or moderate southeast to southwest wind, cloudy, occasional rain, average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate southeast to south wind, fresh on coast; cloudy or dull, rain at times; average temperature.
12 S.W. Scotland & Isle of Man.	As 8.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Fresh or strong southeast wind, gale locally on coast; cloudy or dull, rain at times; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or light south to southeast wind; mainly cloudy with showers or occasional rain, bright intervals, especially in the South; average temperature.

GENERAL INFERENCE.

A depression centred just off West Ireland, and a trough of low pressure over Scotland and East England are moving slowly east. Weather will continue mainly cloudy with rain or showers in most districts but there will be bright periods in the southwest. Fog will occur in places tonight in the midlands and South of England.

FURTHER OUTLOOK.

Continuing unsettled with further rain at times.

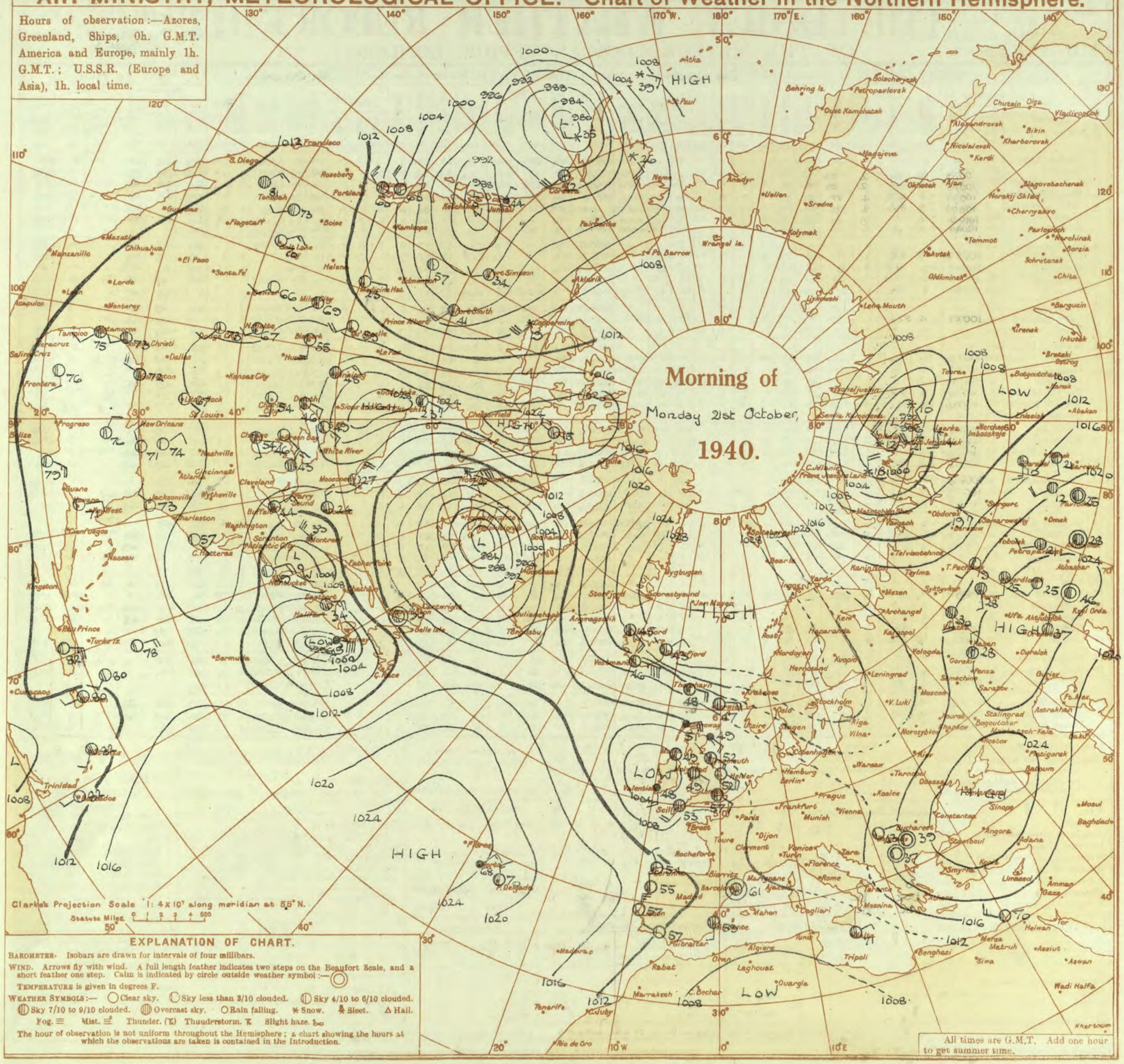
Warning of Southerly gale in operation, coasts of North and Northwest Scotland.

Forecasts issued at 10.30 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Monday 21st October 1940.
No. 28823

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)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1007·9	−6	SE	2	z.	57	92	6	5	−	−	10	10	2000
	S. Farnborough	226	1007·5	−6	SSE	2	z.	58	92	5	5	−	−	10	10	1800
	Boscombe Down	417	1007·1	+2	W'S	4	rr	56	97	5	6	2	−	10	10	300
	Calshot (Sthmtn.)	8	1007·3	−4	SW	4	c	59	92	7	5	−	−	10	10	2500
	Lympne	346	1010·0	−2	−	0	z.	58	85	5	5	−	−	10	10	3000
	Manston	154	1008·9	−4	S	2	m	51	97	4	5	−	−	2-3	2-3	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1008·6	−2	S'E	1	m	55	97	4	−	3	−	0	4-6	−
	Gorleston	5	1009·3	−8	SE'S	3	b	55	92	6	−	−	−	0	0	−
	Mildenhall	19	1007·8	−6	SE'S	2	m	51	97	4	−	3	−	0	9+	−
	Cranwell	240	1008·5	−6	SE	1	of+	50	97	2	5	−	−	10	10	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1007·2	−4	ESE	1	z.	57	97	5	−	2	−	10	10	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299														
	Bristol	209	1007·0	0	−	0	rr	50	97	4	−	2	−	10	10	600
	Portland Bill	32	1007·3	+4	S	2	o	56	85	7	5	−	−	10	10	2500
	Plymouth	82	1007·9	−2	E	1	c	51	92	6	2	7	−	2-3	10	2000
	The Lizard	240	1007·4	−4	SW'W	4	Pr	59	92	8	8	2	−	7-8	10	1500
	Scilly (St. Mary's)	163	1007·0	+4	SW	4	c/pr	53	85	7	8	7	−	7-8	9+	1500
	Guernsey	175														
6	Pembroke	142	1005·6	−4	S	4	c	54	92	8	8	6	−	4-6	7-8	2000
7	Holyhead	26	1006·1	−4	ESE	2	c	49	97	8	5	2	−	4-6	10	2500
	Chester (Sealand)	16	1006·5	−2	WN	1	dd	49	97	5	−	2	−	10	10	1200
8	Manchester	70	1006·2	−4	SSW	1	m	*	*	4	5	−	−	10	10	2500
10	Spurn Head	29	1006·7	−8	ESE	3	b	53	92	6	−	−	−	0	0	−
	Catterick	175	1008·0	−18	−	0	z.	50	97	5	5	−	−	10	10	1200
	Tynemouth	108	1010·8	−10	SE	4	c	52	92	6	5	−	−	10	10	1500
11	St. Abbs Head	280	1009·0	−8	SE	6	cq/r	50	92	6	5	2	−	7-8	10	2000
	Leuchars	36	1009·9	−10	ENE	5		51	97	5	5	−	−	10	10	700
12	Renfrew (Abbots I.)	19	1007·5	−2	ENE	3	ro	51	97	6	5	−	−	10	10	900
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30														
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1009·0	−2	E	6	pr	51	85	6	5	1	−	7-8	10	1200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1013·2	−2	SSE	7	cq	50	85	7	5	2	−	7-8	10	800
16	Lerwick	156	1018·1	−8	E'N	4	c	47	85	8	5	7	−	4-6	7-8	1500
17	Blacksod Point	18	1003·0	−4	E	2	bc	47	85	8	−	5	−	0	4-6	−
18	Malin Head	84	1004·9	−6	S	2	c	49	85	7	4	6	−	4-6	7-8	4000
	Aldergrove	268	1006·2	−2	E'S	2	c	48	97	7	8	−	−	9+	9+	3400
19	Birr Castle	173	1003·6	−4	S	1	ir	48	92	7	6	2	−	7-8	10	1500
20	Valentia Obsy.	30	1002·2	−6	S'E	3	pr	48	85	8	8	−	−	9+	9+	1500
	Roches Point	22	1003·5	−2	S	3	c	50	85	8	3	3	−	2-3	7-8	1500

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)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1007·5	+4	WNW	3	id.	53	85	6	5	2	−	7-8	10	1500	1	*
	Croydon	1007·0	0	W	2	z.	52	92	6	5	−	−	7-8	10	2000	1	*
	S. Farnborough	1007·7	+10	W'N	3	rr	51	97	6	5	−	−	10	10	1500	1	*
	Boscombe Down	1007·3	+6	SSW	1	ro.ro.	50	97	6	5	7	−	7-8	9+	1500	1	*
	Calshot (Sthmtn.)	1007·6	+2	−	0	rr	52	92	6	5	1	−	9+	10	1100	1	2
	Lympne	1008·0	−10	−	0	c/r	57	92	5	5	7	−	9	9+	2500	1	§2
	Manston	1006·8	−8	SE	2	z.	55	97	5	5	−	−	4-6	4-6	5700	*	*
2	Shoeburyness	1007·0	−10	−	0	cf	53	97	3	5	9	−	4-6	9+	4000	1	*
	Felixstowe	1006·8	−8	−	0	bcf	53	97	2	−	3	−	0	4-6	−	1	1
	Gorleston	1007·6	−6	SE'E	3	bc	55	92	6	−	6	−	0	4-6	−	1	2
	Mildenhall	1006·1	+6	SE	2	z.	52	97	5	5	8	−	9	9+	4500	0	*
	Cranwell	1006·8	−2	WSW	2	d.d.	52	97	3	6	−	−	10	10	200	1	*
3	Birmingham	1006·7	+2	SW	2	c/r	50	92	5	6	−	−	10	10	800	1	*
	Upper Heyford	1007·1	+4	WN	2	c/r	50	97	7	6	7	−	4-6	10	1500	1	*
4	Ross-on-Wye	1006·7	0	SW	2	c	49	92	7	5	2	−	7-8	9+	4000	1	*
5	Hartland Point	1005·2	−2	WSW	4	bc	53	85	8	8	−	−	4-6	4-6	2000	1	3
	Bristol	1007·5	+4	−	0	c	49	92	7	5	7	−	7-8	9+	2500	1	*
	Portland Bill	1006·8	+6	SW	2	c	55	85	8	5	−	−	10	10	2500	1	2
	Plymouth	1007·2	+4	WNW	2	bc	56	85	7	7	7	−	2-3	2-3	1800	1	1
	The Lizard	1006·8	0	W	4	bc	52	85	8	8	−	−	4-6	4-6	2500	1	2
	Scilly (St. Mary's)	1006·8	+6	W'S	4	bc	52	75	8	8	4	−	2-3	4-6	1500	1	3
	Guernsey																
6	Pembroke	1004·8	−2	SW	5	bc	53	75	8	8	4	−	4-6	4-6	2000	1	2
7	Holyhead	1003·5	−8	SE'E	3	c/r	50	92	8	5	7	−	9	10	2500	1	1
	Chester (Sealand)	1005·0	−6	SE	2	c	49	97	5	5	−	−	9+	9+	3000	1	*
8	Manchester	1005·4	−6	S'E	2	ro.ro.	50	97	4	6	7	−	2-3	10	1500	2	*
10	Spurn Head	1005·8	−2	SE'E	3	c	54	97	6	5	7	−	4-6	9	2500	1	3
	Catterick	1005·8	−6	−	0	rf	50	97	3	5	−	−	10	10	<150	1	*
	Tynemouth	1007·6	−16	SE	4	o	53	92	6	5	−	−	10	10	700	1	3
11	St. Abbs Head	1006·4	−14	SE	6	oq	51	92	6	5	−	−	10	10	1500	0	4
	Leuchars	1007·5	−8	E	4	z.	51	85	6	5	−	−	10	10	700	1	*
12	Renfrew (Abbots I.)	1005·1	−8	E'N	3	ro.ro.	50	92	5	5	−	−	10	10	1500	1	*
	Eskdalemuir	1005·1	−6	ESE	3	ro.ro.	49	92	5	−	2	−	10	10	450	1	
	Point of Ayre	1004·1	−8	S'E	2	c	51	97	8	8	2	−	7-8	10	1500	1	1
13A	Tiree	1003·2	−20	E	3	d.d.	51	97	7	5	−	−	9+	9+	1200	1	3
13B	Stornoway	1007·7	−6	E	7	c	50	85	6	8	7	−	4-6	10	1100	1	4
15	Dalwhinnie	1007·9	−6	ESE	2	c	47	85	6	6	5	−	9	10	1500	0	*
	Aberdeen	1009·7	−8	ESE	4	c/r	50	92	6	6	−	−	10	10	800	1	3
	Wick	1011·1	−8	SE	6	cq	49	85	7	5	2	−	7-8	10	800	1	3
16	Lerwick	1015·8	−6	E	3	c/pr	47	85	8	8	7	−	7-8	9	800	1	*
17	Blacksod Point	1000·2	−14	SE	2	c	47	92	8	3	5	−	4-6	7-8	1500	0	3
18	Malin Head	1002·2	−12	S	1	c	49	92	7	8	−	−	9	9	4000	0	2
	Aldergrove	1003·2	−10	ESE	3	iro	49	92	7	5	7	−	2-3	10	2000		*
19	Birr Castle	1001·9	−6	S	1	c	45	92	8	8	−	−	7-8	7-8	1500	1	*
20	Valentia Obsy.	1000·6	−10	S'W	3	iR	49	92	7	6	2	−	7-8	10	1500	1	3
	Roches Point	1002·6	+2	SW	3	bc	50	85	8	8	−	−	4-6	4-6	1500	1	3

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 20th Hrs. (36)
1	London (Kew)	63	53	50	−	Tr	6·5
	Croydon	(64)	52	51	−	−	9·2
	S. Farnborough	61	50	50	−	*	7·9
	Boscombe Down	62	49	49	−	6	4·1
	Calshot (Sthmtn.)	60	51	50		3	6·5
	Lympne	69	49	40	−	0·1	9·6
	Manston	*	*	*	*	*	*
2	Shoeburyness	59	50	41	−	−	8·0
	Felixstowe	60	52	45	−	−	8·5
	Gorleston	57	53	44	−	−	*
	Mildenhall	65	49	40	Tr	Tr	7·3
	Cranwell	61	49	41	−	Tr	6·7
3	Birmingham	61	50	48	−	8	3·3
	Upper Heyford	65	49	48	−	2	*
4	Ross-on-Wye	61	49	47	−	5	0·6
5	Hartland Point	59	48	46	5	0·3	0·0
	Bristol	61	49	45	0·3	6	0·8
	Portland Bill	59	54	*	−	2	*
	Plymouth	60	50	44	3	0·5	0·1
	The Lizard	57	51	*	2	2	0·1
	Scilly (St. Mary's)	58	52	*	0·6	0·3	3·3
	Guernsey						
6	Pembroke	57	50	*	8	1	0·0
7	Holyhead	61	47	46	4	3	0·0
	Chester (Sealand)	59	49	44	Tr	8	1·7
8	Manchester	64	50	49	−	6	5·6
10	Spurn Head	56	53	*	−	Tr	4·6
	Catterick	54	49	48	0·1	1	0·0
	Tynemouth	53	52	49	Tr	−	*
11	St. Abbs Head	51	49	*	Tr	−	*
	Leuchars	53	50	49	Tr	Tr	0·0
12	Renfrew (Abbots I.)	55	49	49	0·1	13	0·0
	Eskdalemuir	53	48	48	Tr	4	0·0
	Point of Ayre	57	48	*	5	11	0·0
13A	Tiree	55	48	*	23	14	0·0
13B	Stornoway	54	50	*	1	0·3	0·0
15	Dalwhinnie	53	45	43	Tr	−	2·5
	Aberdeen	52	49	48	−	Tr	0·0
	Wick	52	48	*	−	Tr	*
16	Lerwick	50	47	*	−	Tr	0·4
17	Blacksod Point	55	45	*	0·4	−	*
18	Malin Head	55	46	*	9	Tr	0·0
	Aldergrove	53			20		
19	Birr Castle	59	44	39	−	1	5·6
20	Valentia Obsy.	56	45	39	0·3	3	5·7
	Roches Point	57	50	*	0·3	6	*

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. (To-day)
		24 hrs. ended 9h.											
Kew	18	bmwz.	bz.bcm	cm.id.	63	53	50	−	Tr	6·5	*	*	6
Croydon	217	cm	c	cm.	(64)	52	51	−	−	9·2	*	*	5
Greenwich (Royal Observatory)	149												
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*									*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	o	b	*	65	53	47	−	1	*	*	94	*
Kensington	80	bcz	bc	*	63	52	45	−	1		82	95	*
Hampstead Observatory	450	bc	bc..	or	61	50	47	−	1		*	99	*

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.
0·3	19h 20th	<0·1	0-7h 21st

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 20th October Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 21st 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.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Preciptious.
4 Rough. 9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 22nd. October 1940.

No. 28824.

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)	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)...	1007·5	−4	SW'S	2	z0	54	92	6	5	-	-	10	10	2500
	Croydon ...	1007·4	0	WNW	1	c/r	53	92	5	5	7	-	2-3	10	1000
	S. Farnborough	1007·5	−6	SSW	2	c/r	54	92	8	5	7	-	7-8	9+	4000
	Boscombe Down	1007·3	+2	WSW	3	c	55	75	8	2	3	5	2-3	7-8	2000
	Calshot (Soton.)	1007·6	−2	–	0	c	57	85	8	8	3	-	2-3	9	2500
	Lympne ...	1008·2	+2	WNW	3	ir0	56	85	6	5	2	-	9	10	900
	Manston ...	1007·6	+8	NW	3	z0	56	85	6	5	7	-	4-6	9+	2800
2	Shoeburyness ...	1007·5	−2	NW	2	ir0	56	85	8	5	1	-	7-8	10	2500
	Felixstowe ...	1006·3	−2	NW'N	3	c/r	57	85	7	6	3	-	2-3	7-8	1000
	Gorleston ...	1006·9	−4	S'E	1	c	57	92	5	5	-	-	9+	9+	1000
	Mildenhall ...	1006·6	−6	NW'W	2	d0d0	53	97	6	5	7	-	7-8	9+	1200
	Cranwell ...	1007·1	0	W	2	id0	53	92	6	5	-	-	10	10	500
3	Birmingham	1007·0	0	SW	2	c	53	75	7	5	3	-	4-6	7-8	1500
	Upper Heyford	1007·0	−2	SW	2	c	53	85	7	8	3	-	4-6	9	1500
4	Ross-on-Wye ...	1006·5	−6	WSW	2	bc	57	75	8	8	-	1	4-6	4-6	4000
5	Hartland Point	1006·2	0	SW	3	c	55	75	8	4	-	6	4-6	7-8	2000
	Bristol ...	1007·3	0	WSW	3	bc	58	55	8	2	3	4	2-3	4-6	2500
	Portland Bill ...	1007·3	0	W	2	c	57	85	8	2	4	-	4-6	7-8	4000
	Plymouth ...	1007·7	+4	W	2	bc	58	65	8	2	-	-	1	4-6	1800
	The Lizard ...	1007·2	−4	SSW	3	bc	58	75	8	8	9	-	4-6	4-6	2500
	Scilly (St. Mary's)	1006·4	−4	S'W	3	c	58	75	8	8	4	5	4-6	7-8	2200
	Guernsey ...														
6	Pembroke ...	1005·3	0	SSW	4	bc	57	75	8	2	6	1	4-6	4-6	2500
7	Holyhead ...	1004·2	+2	SSW	4	bc	56	75	8	2	3	-	2-3	4-6	3000
	Chester (Sealand)	1005·2	−2	SW'W	1	bc	63	45	9	1	3	6	4-6	4-6	3600
8	Manchester ...	1006·0	+2	S'W	1	z0	55	85	6	8	3	1	2-3	9	1800
10	Spurn Head ...	1006·2	0	W'S	3	r0r0	53	97	6	5	-	-	10	10	1500
	Catterick ...	1006·2	+2	SW	1	r0r0	52	92	4	5	7	-	7-8	10	1000
	Tynemouth ...	1006·3	+4	SSW	2	rf	53	97	3	-	2	-	10	10	1200
11	St. Abbs Head	1005·3	−8	SE	6	rf	51	97	2	5	-	-	10	10	<150
	Leuchars ...	1006·3	−8	E	4	d0d0	50	97	5	6	-	-	10	10	500
12	Renfrew (Abbots I.)	1005·2	0	E	2	r0r0	52	97	4	-	2	-	10	10	800
	Eskdalemuir ...	1005·1	+2	SW'W	2	rr	50	92	6	6	2	-	10	10	450
	Point of Ayre ...	1004·1	+2	SSW	3	bc	58	85	8	2	6	-	2-3	2-3	2500
13A	Tiree ...	1002·8	0	ESE	4	rr	52	97	7	-	2	-	10	10	1200
13B	Stornoway ...	1008·0	+2	E	6	c/r	51	85	7	8	7	-	7-8	10	1000
15	Dalwhinnie ...	1006·6	−6	ESE	2	id0	50	85	5	5	1	-	4-6	9+	1500
	Aberdeen ...	1008·8	−4	SE'E	4	c	52	85	6	6	7	-	7-8	10	1500
	Wick ...	1010·3	−6	E	6	c/pr	50	85	7	5	2	-	7-8	10	800
16	Lerwick...	1015·9	+2	E'N	4	c	48	75	8	8	7	-	4-6	9	1500
17	Blacksod Point..	998·2	−10	ESE	3	c	49	85	8	-	6	-	0	9	-
18	Malin Head ...	1001·5	−2	S'E	3	c	54	65	8	2	6	2	2-3	7-8	4000
	Aldergrove ...	1002·4	−2	SSE	3	c/pr	54	75	8	9	-	-	9	9	2000
19	Birr Castle ...	1000·5	−12	S	2	pr	54	75	7	8	1	-	7-8	9	1500
20	Valentia Obsy. †	995·9	−36	SSE	5	r0r0	51	92	8	6	2	-	7-8	9+	1500
	Roches Point ...	1000·1	−16	S'W	6	ir	55	85	7	6	2	-	7-8	9+	1500

OBSERVATIONS at 18h. G.M.T. 21st 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)	1007·5	+4	–	0	z0	52	85	5	5	3	-	9	9+	2500	1	*
Croydon	1008·4	−2	–	0	m	50	97	4	4	5	-	Tr	9	2500	1	*
S. Farnborough	1007·6	+2	SSE	1	m	52	92	4	-	3	-	0	9+	-	1	*
Boscombe Down																*
Calshot (Soton.)	1007·5	+2	WSW	2	c	53	85	7	-	7	-	0	9	-	1	1
Lympne	1008·9	+8	WNW	1	z0	52	92	5	5	-	-	9+	9+	2500	1	§ 2
Manston	1008·0	+6	WNW	2	z0	52	97	5	6	7	-	7-8	10	800		*
Shoeburyness	1008·0	+10	W	1	of+	52	92	3	5	-	-	10	10	4000	1	*
Felixstowe	1007·7	+14	WNW	3	dr	53	92	5	5	2	-	9	10	1000	1	2
Gorleston	1007·0	+4	NW	2	o	54	92	3	5	-	-	10	10	1200	1	1
Mildenhall	1007·3	+6	WSW	1	ir0	52	92	4	6	2	-	4-6	10	1000	1	*
Cranwell	1007·5	+4	SW	1	z0	50	97	5	5	-	-	9+	9+	2000	1	*
Birmingham	1007·0	0	S	1	z0	51	85	5	-	3	6	0	7-8	-	1	*
Upper Heyford	1007·0	+2	–	0	z0	51	92	6	2	3	8	1	9	2000	0	*
Ross-on-Wye																*
Hartland Point	1005·2	0	S	3	bcjp	51	85	8	2	-	2	1	2-3	1500	0	2
Bristol	1006·7	−2	S	1	bcfg	52	75	7	4	4	4	Tr	4-6	2500	1	*
Portland Bill	1007·4	+2	W	2	bc	51	92	8	5	-	-	4-6	4-6	4000	1	2
Plymouth	1006·6	−2	SW'W	2	pr	55	75	8	7	4	1	7-8	9	3000	0	2
The Lizard	1005·4	−6	S	4	bc	54	75	8	8	-	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1003·7	−14	S'E	4	bc/pr	52	92	8	8	6	-	2-3	2-3	1200	1	3
Guernsey																
Pembroke	1004·1	−2	S	5	bc	55	75	8	2	6	1	2-3	4-6	2500	1	3
Holyhead	1004·6	+6	SE	3	bc	52	92	8	1	5	6	Tr	4-6	3500	1	2
Chester (Sealand)	1005·9	+8	–	0	c	50	85	7	4	-	8	1	7-8	4000	1	*
Manchester	1006·1	+4	SE'E	2	bcf+	50	85	3	-	-	1	0	2-3	–	1	*
Spurn Head	1006·7	+6	–	0	c	52	92	6	5	-	-	10	10	2500	1	2
Catterick	1007·1	+8	–	0	cf+	50	97	2	-	7	-	0	9+	–	1	
Tynemouth	1008·7	+14	SW	2	cf	53	92	3	8	-	-	9+	9+	1200	1	2
St. Abbs Head	1007·0	+12	SW	1	c/r	51	97	6	5	7	1	4-6	9	1000	1	5
Leuchars	1007·2	+12	E	4	c/r	52	97	5	6	-	-	10	10	400	1	*
Renfrew (Abbots I.)	1006·5	+14	E	2	bf+	51	97	3	8	-	-	Tr	Tr	2500	2	*
Eskdalemuir	1007·2	+18	–	0	c	45	97	6	8	-	1	4-6	7-8	1500	1	*
Point of Ayre	1005·7	+8	SW'S	1	bc	52	85	8	2	4	5	Tr	2-3	2500	1	1
Tiree	1004·7	+12	E'S	3	bc	51	92	8	7	4	-	2-3	2-3	2800	1	3
Stornoway	1010·1	+16	E	5	rr	51	92	6	5	2	-	7-8	10	1200	1	3
Dalwhinnie	*	+10	NE	2	r0r0	48	85	6	5	4	-	9	9+	1500	1	*
Aberdeen	1009·9	+10	SE'E	4	ir	51	85	6	6	2	-	9	10	1500	1	3
Wick	1011·5	+14	ESE	6	cq	50	85	6	5	2	-	7-8	10	800	1	3
Lerwick	1017·8	+16	E	5	c	48	75	7	8	7	-	7-8	10	800	1	*
Blacksod Point	997·6	+6	E'S	4	c	52	85	8	-	6	-	0	10	–	0	3
Malin Head	1002·8	+20	S'E	3	bc	51	75	8	5	7	-	2-3	4-6	5700	0	1
Aldergrove	1004·0	+12	ESE	2	bc	49	85	8	2	6	6	Tr	4-6	2000	1	*
Birr Castle	999·5	−6	S	3	c	52	85	8	8	-	-	7-8	7-8	1500	1	*
Valentia Obsy. †	993·1	−14	S'E	5	ir	50	92	7	9	2	-	7-8	9+	1500	1	3
Roches Point	997·8	−10	S	6	c/r	52	92	8	6	2	-	7-8	9	800	1	4

PAST 24 HOURS.

Stations	Weather 7h.—18h. 21st (37)	Weather 13h.—18h. 21st (38)	Weather 18h. 21st to 1h. 22nd (39)	Weather 1h.—7h. 22nd (40)
London (Kew)	crcrrcm	cm0	cm0cffe	ofe
Croydon	id0r0ir0	cmr0	cfbcfbw	bcfb
S. Farnborough	crrr0r0c	cmm	cmwbf	bxFF
Boscombe Down	bc		b	bjf
Calshot (Soton.)	crrr0rmc	c	bmowfg	bcmowfg
Lympne	cmir0	ir0cm0	cbm0ffgw	cm0fgcw
Manston	bcir0cm	cmidcm0	cfir0cm0	cmfcm
Shoeburyness	firRc	cir0cf	cfbFw	pfeFe
Felixstowe	cff,cr0bc	bccir0m	odgcm0	bbm,F
Gorleston	bccprz0	coprz0	oz0id0	oid0cz0
Mildenhall	or0cd0m0	cidmir0m	cir0mcfw	cfwbcfof
Cranwell	cid0m0	cid0mcm0	cm0,cm	cmbcfoff
Birmingham	or0c	cbcz	bcbf	bFFe
Upper Heyford	crrm0c	cm0	m	bFbf
Ross-on-Wye	cbc		bcbm0	bmfwf
Hartland Point	bcpc	cbc	bcb	bbcw
Bristol	cbcd	cbcw	bcbfgw	bfgbcjfw
Portland Bill	c	cbc	bcc	c
Plymouth	bbc	bcb,cpr0	cpr0,bbc	
The Lizard	bc	bc	bc	bcc
Scilly (St. Mary's)	bcc	cpbc	cbcc	cpr0r0
Guernsey				
Pembroke	pr0bc	pr0bc	bc	bcc
Holyhead	cr0prbc	bwbc	bcbw	b
Chester (Sealand)	cbcm0	bcjc	cbcbmfw	f
Manchester	mr0rm	cmbcmf	bfmfbff	f
Spurn Head	mr0R	cz	FF	cmFf
Catterick	fdrrm	rrmmcf	Fcc ifm	cm0,w
Tynemouth	oddff	oirff	cff	oddrrm
St. Abbs Head	omqrf	omr0c	cmmdf	om0qrr
Leuchars	cd0Did0m		r	d0d0r0r0rr
Renfrew (Abbots I.)	omrRRr0	omr0cbf	bofefef	oFfd0r0
Eskdalemuir	or0rr	rrcbc	bcfgc	cod0d0
Point of Ayre	cprbc	bc	bcb	bw
Tiree	odrR	bc	bcb	bbcc
Stornoway	cpr	crr	crr	crr
Dalwhinnie	c	cr0r0	*	c
Aberdeen	ir0c	cir0	crrz0	crrz0
Wick	cir0m0		r	prrrq
Lerwick	cpr0	cpr0c	c	cpr
Blacksod Point	bcc	c	rr	cq
Malin Head	cprprc	cbc	bc ∞	bck
Aldergrove	ir0RpRr0c		bc,wbw	pr
Birr Castle	cpr	c	cpr	c
Valentia Obsy. †	iRrrr0r0	r0r0PRir	ir0prpr0	pr0prpr0c
Roches Point	ir0ir	iRc	irc	irc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
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. r0, 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.

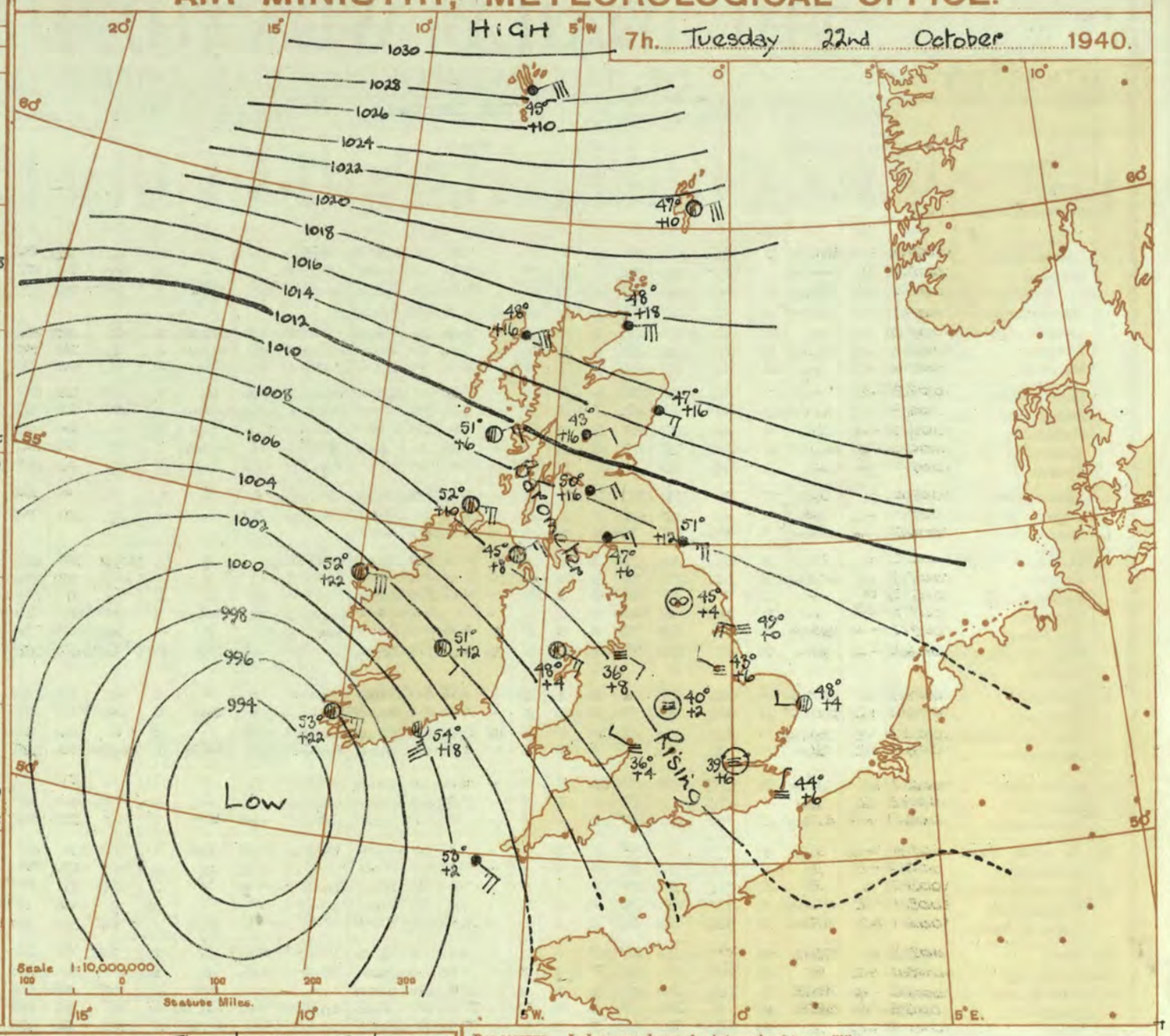
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 21st. Oct.			18h. G.M.T.			01h. G.M.T. 22nd. Oct.			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-	51768	41658	5-	02756	08656	57	02754	06688
115	52	81735	45888	52	82635	43888	52	81734	45867	62	61735	41788
203	5-	03748	08428									
206	57	05645	08528	6-	62648	08468	5-	64538	08568	62	62745	08568
210	52	22646	08468	52	51636	06568	62	64537	08568	6-	62635	08568
220	62	64744	16468	53	02844	12415				52	03854	08528
230	52	62744	08268	54	61754	00064	50	02874	00016	51	02855	08368
245	5-	82538	08658	02	64528	08668	02	04548	42568	52	62645	06668
260	57	45344	06158	5-	47367	00047	--	57309	00049	62	54528	06458
277	24	00841	15382	10	01844	14314	00	01890	07314	54	09861	25101
279				5-	08444	20214						
285	6-	64738	20168	8-	02747	30227				5-	03638	26228
288	5-	22748	18168	57	47268	20167	--	46209	22149	5-	21448	16158
273	38	01768	10414							82	02654	03228
301	70	05663	17261	46	05662	00014	00	05590	08110	00	00590	00000
321	67	64576	22168	07	08490	14128	--	48109	28149	--	46009	00049
299				57	05534	00018	5-	05548	25228	5-	08488	00028
292				53	47364	00067	--	46109	26249	05	08490	28144
310				--	01634	16214						
316	07	08490	00068	57	47274	00046	5-	43166	00046	--	46009	00049
333	26	25944	20484	54	01951	16302	04	00890	07301	13	08451	32213
334	34	01844	40704	--	01868	00003					00200	08140
340	23	01951	20215	00	01790	10214	50	47271	00041	00	47090	00040
136												
336	--	01853	24414	--	01851	20513					42284	14348
350	57	02855	20167	43	02690	18126				00	47190	00040
368												
379	23	02753	20225	43	05654	00025	00	05690	00000	05	01790	14103
390	5-	61658	24368	53	47254	00016	--	48109	00049	00	46109	00049
382	73	02854	18126	49	05563	00026	00	47190	00040	00	45109	00040
438	8-	21748	30158							57	01763	00013
430	57	22664	00067	03	05690	00016	00	43390	00042	20	05652	08213
409	13	02854	18315	25	01952	18314				54	00852	14403

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 22nd Oct. 1940
1 S.E. England 2 E. England ...	Light E. or S.E. wind freshening; fair at first, occasional rain later; average temperature.
3 E. Midlands ... 4 W. Midlands ...	Freshening E. wind; rain spreading S.W.; average temperature.
5 S.W. England	As 1.
6 South Wales ... 7 North Wales ...	Moderate or fresh S.E. to E. wind; variable cloud; occasional local rain; average temperature.
8 N.W. England 9 N. Midlands ...	As 1.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Fresh or strong E. wind; dull; continuous rain at first, showers later; rather cool.
13 A. W. Scotld. B.N.W.Scotland.	Fresh or strong E. wind; rain at first, improving later with bright intervals locally; rather cool.
14 Mid Scotland 15 N. E. Scotland	As 10-12.
16 Orkneys and Shetlands	Strong E. wind; cloudy, some showers; cool
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5-6.

GENERAL INFERENCE.

An anticyclone extending from Iceland to Norway is spreading South and a depression off S.W. Ireland will move S.E. and fill up. Wind will be generally S.E. to E, strong locally in the North & West and freshening tonight in the Southeast. There will be rain at first in the North and in other areas later, but today will be fair in many parts of England after morning fog.

FURTHER OUTLOOK.

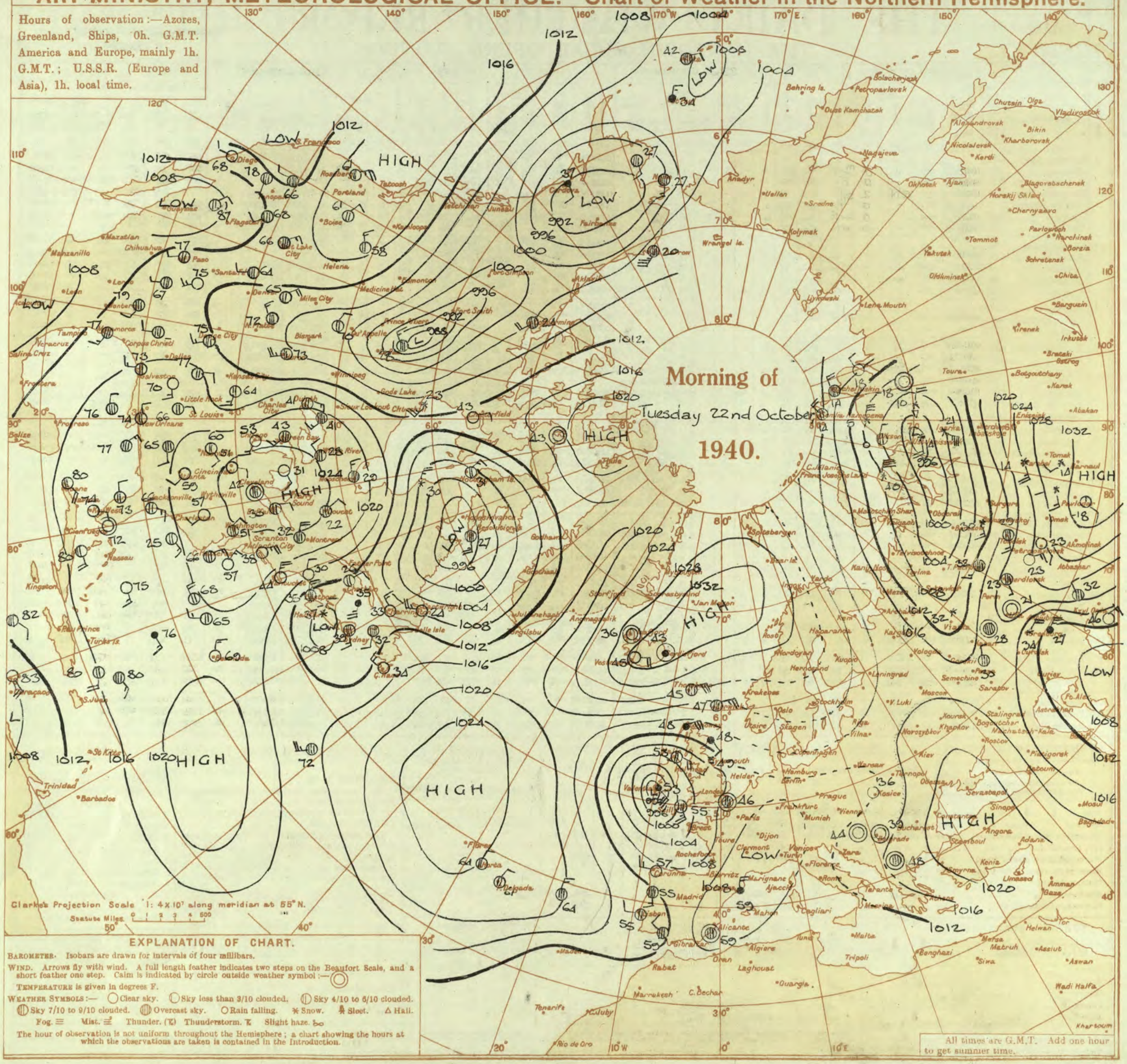
Easterly winds, strong locally; showers in N.E. districts; fair in the Northwest; occasional rain at first in the South, probably followed by an improvement.

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

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 22nd. October 1940.

No 28824.

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)	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	1008·2	+2	–	0	m/f	45	97	4	–	3	–	0	2-3	–
	S. Farnborough	226	1008·6	+6	–	0	F–	39	97	1	–	–	–	0	0	–
	Boscombe Down	417	1007·6	0	E'N	2	bjf	45	97	7	–	–	–	0	0	–
	Calshot (Sthmtn.)	8	1007·8	+2	–	0	b	46	97	5	–	–	–	0	0	–
	Lympne ...	346	1003·3	+4	–	0	c/f	46	97	6	–	3	1	0	7-8	–
	Manston ...	154	1008·6	+2	–	0	m	46	97	4	–	3	–	0	3	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1008·1	+4	W	1	zo	51	92	5	–	3	–	0	2-3	–
	Gorleston ...	5	1007·9	+6	W'N	2	ido	52	92	5	6	–	–	10	10	800
	Mildenhall ...	19	1007·9	+4	SW	1	cf	44	97	3	–	3	–	0	9	–
	Cranwell ...	240	1008·2	+4	–	0	m	47	97	4	5	–	–	10	10	1800
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1008·4	+6	–	0	bf+	42	97	1	–	3	–	0	1	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1004·9	–2	SE	3	b	47	85	8	–	–	–	0	0	–
	Bristol ...	209	1007·6	+2	S	1	zo	40	97	7	–	–	–	0	0	–
	Portland Bill ...	32	1006·7	–12	SSW	2	c	53	92	8	5	–	–	10	10	4000
	Plymouth ...	82	1005·5	–6	S	1	bc	53	75	8	8	3	–	2-3	4-6	2000
	The Lizard ...	240	1004·1	–8	SE'S	6	bc	53	85	8	8	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	1001·2	–10	SSE	5	c	55	75	8	8	6	–	7-8	9+	1500
	Guernsey ...	175														
6	Pembroke ...	142	1004·2	0	SE'S	5	bc	54	85	8	2	4	–	1	2-3	2500
7	Holyhead ...	26	1006·5	+10	E	3	b	50	85	8	–	–	–	0	0	–
	Chester (Sealand)	16	1007·5	+4	–	0	bf+	42	97	3	–	–	–	0	0	–
8	Manchester ...	70	1007·8	+4	NE	1	bf	43	92	2	–	3	–	0	Tr	–
10	Spurn Head ...	29	1007·5	0	W'N		zp	50	97	5	*	*	–	7-8	10	<150
	Catterick ...	175	1007·6	+6	–		cif	44	97	5	–	3	–	0	7-8	–
	Tynemouth ...	108	1009·3	0	SW		cf	49	97	3	5	–	–	9+	9+	1200
11	St. Abbs Head	280	1008·6	+6	ESE	4	df	51	97	3	*	–	–	10	10	<150
	Leuchars ...	36	1009·8	+12	E	3	roro	51	97	5	5	–	–	10	10	300
12	Renfrew (Abbots I.)	19	1009·4	+6	–	1	F	47	97	1	*	–	–	10	10	<150
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1007·5	+4	ESE	3	b	52	85	8	–	–	1	0	1	–
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1013·3	+20	ENE	6	rr	48	97	6	5	2	–	9	10	1000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1015·2	+14	E	6	c	49	85	7	5	2	–	7-8	10	800
16	Lerwick ...	156	1020·1	+10	ENE	5	c	47	65	8	5	7	–	4-6	9	1500
17	Blacksod Point	18	1000·2	+12	ES	3	roro	52	85	7	6	–	–	10	10	<150
18	Malin Head ...	84	1006·8	+12	ESE	3	bc	53	92	8	2	–	4	1	4-6	5700
	Aldergrove ...	268	1007·1	+10	ENE	2	bc	48	92	8	7	4	6	2-3	4-6	1800
19	Birr Castle ...	173	1001·1	+6	S	2	pr	52	85	7	9	1	–	7-8	9	1500
20	Valentia Obsy.	30	992·6	–2	SE	3	pr	53	85	7	8	–	–	9+	9+	1500
	Roches Point	22	996·8	0	S'E	6	c	51	85	8	6	2	–	7-8	9	1500

OBSERVATIONS at 7 hr. G.M.T. 22nd. 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)	1008·6	+4	E	1	F	45	92	1	*	–	–	10	10	<150	1	*
Croydon ...	1008·5	+6	–	0	m	39	97	4	–	–	4	0	2-3	–	1	*
S. Farnborough	1008·6	+2	–	0	bF+	35	97	1	–	–	–	0	0	–	1	*
Boscombe Down	1007·5	–2	E'N	3	bcjf	43	97	8	8	4	–	2-3	4-6	4000	1	*
Calshot (Sthmtn.)	1007·6	0	E	1	zo	46	92	6	8	4	5	1	2-3	3500	1	*
Lympne ...	1009·8	+6	NNE	1	zo	44	97	6	2	–	6	2-3	9+	3500	1	*
Manston ...	1009·0	+6	–	0	m	46	97	4	5	3	9	2-3	9+	3500	*	*
Shoeburyness ...	1008·9	+8	W'N	1	f–	43	97	1	*	–	–	10	10	<150	1	*
Felixstowe ...	1008·5	+6	NW'W	1	F	43	97	1	–	3	–	0	9+	–	1	1
Gorleston ...	1008·4	+4	W	2	c	48	85	5	5	7	–	4-6	7-8	1500	1	1
Mildenhall ...	1008·3	+6	–	0	F+	42	97	0	*	–	–	10	10	<150	1	*
Cranwell ...	1008·5	+6	NW	2	F	43	97	1	*	–	–	10	10	<150	1	*
Birmingham ...	1008·6	+2	–	0	F+	40	97	0	–	–	–	10	10	<150	1	*
Upper Heyford	1008·5	+4	N'E	1	f–	35	97	3	–	4	–	0	Tr	–	1	*
Ross-on-Wye	1008·3	+4	NW	1	oF	36	97	1	5	–	–	10	10	<150	1	*
Hartland Point	1004·4	+2	ENE	3	bc	47	92	8	4	–	5	2-3	4-6	2500	1	2
Bristol ...	1007·5	+2	SE	1	zjf	39	97	6	5	4	–	4-6	4-6	3000	1	*
Portland Bill ...	1006·4	+2	S	3	c	56	85	8	3	7	–	4-6	9	2500	1	2
Plymouth ...																
The Lizard ...	1002·6	–4	SSE	5	c	53	92	8	8	6	–	7-8	7-8	2500	0	3
Scilly (St. Mary's)	1000·4	+2	SE'S	5	roro	53	92	6	6	2	–	7-8	10	800	1	3
Guernsey ...																
Pembroke ...																
Holyhead ...	1006·3	+4	SE'E	3	bc	48	92	9	1	3	5	Tr	2-3	3500	1	2
Chester (Sealand)	1008·0	+8	SE'S	2	F–	36	97	1	*	–	–	10	10	<150	1	*
Manchester ...	1008·2	+6	SSE	1	F+	32	97	0	*	–	–	10	10	<150	1	*
Spurn Head ...	1007·3	0	WNW	4	F+	49	97	1	*	–	–	10	10	<150	1	2
Catterick ...	1008·4	+4	–	0	zo	45	97	5	5	–	–	10	10	1500	1	*
Tynemouth ...	1009·6	+12	E	5	rr	51	97	4	6	–	–	10	10	800	1	3
St. Abbs Head	1011·2	+16	E	6	roro	48	97	7	5	–	–	10	10	2000	1	4
Leuchars ...	1012·8	+18	ENE	4	rr	53	92	6	5	–	–	10	10	500	1	*
Renfrew (Abbots I.)	1010·8	+16	ENE	4	do.d.	50	92	7	6	–	–	10	10	800	1	*
Eskdalemuir ...	1009·2	+6	ENE	3	do.d.	47	97	5	–	2	–	10	10	220	1	*
Point of Ayre ...	1008·0	+4	E	3	b	50	97	6	–	4	5	0	Tr	–	1	1
Tiree ...	1010·3	+6	NE'E	3	c	51	92	8	5	–	–	9	9	1800	0	3
Stornoway ...	1016·3	+16	ENE	6	rr	48	85	7	5	2	1	9	10	1200	1	3
Dalwhinnie ...	1014·7	+16	ENE	2	ido	43	85	7	5	–	–	10	10	1500	1	*
Aberdeen ...	1015·4	+16	E'S	3	roro	47	85	6	6	2	–	1	10	1500	1	3
Wick ...	1017·5	+18	E	6	rr	48	85	7	5	2	–	7-8	10	1500	1	3
Lerwick ...	1021·1	+10	NE'E	6	c	47	75	8	8	7	–	4-6	7-8	1500	1	*
Blacksod Point	1003·9	+22	E	6	cq	52	85	8	9	–	–	9	9	800	0	4
Malin Head ...	1008·4	+10	E	5	c	52	85	7	9	8	–	4-6	7-8	4000	0	2
Aldergrove ...	1008·1	+8	NE	3	bc	45	97	7	5	4	4	1	2-3	1800	1	*
Birr Castle ...	1003·0	+12	SE	2	c	51	85	8	8	–	–	7-8	7-8	1500	1	*
Valentia Obsy.	996·0	+22	E'S	5	c/pr	53	85	7	9	–	6	2-3	9+	2500	1	4
Roches Point	999·3	+18	SSE	7	c	54	85	8	6	2	–	7-8	9+	1500	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)	Night 18h–7h mm. (35)	Sunshine 21st Hrs. (36)
London (Kew)	55	44	35	2	0·1	0·1
Croydon ...	54	38	37	3	–	0·0
S. Farnborough	55	32	25	3	0·1	0·0
Boscombe Down		37	32		0·2	1·8
Calshot (Sthmtn.)	58	43	38	1	–	0·4
Lympne ...	58	43	34	0·5	–	0·0
Manston ...	*	*	*	*	*	*
Shoeburyness ...	57	41	35	10	Tr	0·0
Felixstowe ...	58	43	43	3	0·2	0·6
Gorleston ...	58	47	42	2	Tr	0·8
Mildenhall ...	56	41	35	3	Tr	0·0
Cranwell ...	53	42	35	2	Tr	0·0
Birmingham ...	58	37	(34)	0·5	Tr	1·4
Upper Heyford	59	35	31	2	Tr	*
Ross-on-Wye		35	30		0·1	4·2
Hartland Point	57	45	42	Tr	–	7·3
Bristol ...	59	37	30	–	–	5·6
Portland Bill ...	58	50	*	–	–	*
Plymouth ...				–		
The Lizard ...			*	–	–	8·8
Scilly (St. Mary's)	58	52	*	0·2	1	8·0
Guernsey ...						
Pembroke ...				Tr		
Holyhead ...	57	47	43	0·6	–	7·0
Chester (Sealand)	63	35	29	0·1	–	5·0
Manchester ...	59	31	29	1	–	2·3
Spurn Head ...	55	48	*	2	Tr	0·0
Catterick ...	55	43	39	3	Tr	0·0
Tynemouth ...	55	49	48	4	2	*
St. Abbs Head	51	47	*	5	2	*
Leuchars ...	52	47	46	9	3	0·0
Renfrew (Abbots I.)	54	46	40	12	0·6	0·0
Eskdalemuir ...	53	37	34	11	0·2	0·2
Point of Ayre ...	59	49	*	0·2	–	4·6
Tiree ...	54	47	*	10	–	0·9
Stornoway ...	51	47	*	0·1	5	0·0
Dalwhinnie ...	51	42	41	4	0·2	0·0
Aberdeen ...	52	47	44	0·1	10	0·0
Wick ...	52	46	*	0·1	2	*
Lerwick ...	50	46	*	Tr	Tr	0·5
Blacksod Point	53	50	*	Tr	1	*
Malin Head ...	55	47	*	3	–	3·9
Aldergrove ...	57	43	39	2	Tr	5·1
Birr Castle ...	54	50	49	2	1	1·8
Valentia Obsy.	53	49	47	16	7	0·8
Roches Point	57	51	*	13	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.)	Afternoon.	Night.	Temperature. Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall. Day. mm.	Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew ...	18	rorcrc	cmo	cffeofe	55	44	35	2	0·1	0·1	•	•	1
Croydon ...	217	idorofo	cmro	cfbwfb	54	38	37	3	–	0·0	•	•	4
Greenwich (Royal Observatory) ...	149	ircm	crcbm	bffe	54	44	33	1	Tr	0·0	91	97	0
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	54	46	42	1	•		91	100	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•									•
Camden Square ...	110			•						•	•		•
Kensington ...	80	bccp	bc	•	55	45	35	1	Tr		91	99	•
Hampstead Observatory ...	450	or	c	of	56	*	38	0·5	–		•	99	•

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.
0·2	22h 21st	0·1	7-15h 21st

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...											•	•		

‡ 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 ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

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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.

BRITISH SECTION

Wednesday 23rd. October, 1940.

No. 28825

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)	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)...	1009.3	-2	N'E	2	bf-	54	85	2	-	-	1	0	Tr	-
	Croydon ...	1009.1	-2	S	1	bc/f	57	75	5	2	-	1	2-3	4-6	2500
	S. Farnborough	1008.9	+2	E	2	z₀	58	75	6	5	-	1	2-3	4-6	2500
	Boscombe Down	1008.0	-2	ESE	3	c	58	75	8	2	3	1	7-8	9	2500
	Calshot (Soton.)	1008.2	0	SE	4	bc	57	85	8	2	4	1	4-6	4-6	3500
	Lympne ...	1009.6	0	E	1	c	59	75	7	2	5	-	4-6	7-8	2500
	Manston ...	1009.4	+2	NW	1	z₀	56	85	6	4	-	-	7-8	7-8	4500
2	Shoeburyness ...	1010.0	+2	-	0	of-	51	97	3	5	-	-	10	10	800
	Felixstowe ...	1009.6	+4	S'E	2	z₀	59	75	5	1	-	-	1	1	3500
	Gorleston ...	1009.9	+8	SE'S	1	bc	57	75	6	2	3	-	2-3	4-6	2500
	Mildenhall ...	1009.6	+2	-	0	oF	48	97	1	5	-	-	10	10	100
	Cranwell ...	1009.9	+2	NW	2	F-	47	97	1	-	-	-	10	10	<150
3	Birmingham	1009.5	+2	E	2	m	53	75	4	-	-	-	0	0	-
	Upper Heyford	1008.9	+2	S	2	bc	59	65	8	2	6	1	2-3	4-6	2500
4	Ross-on-Wye ...	1008.3	-6	ENE	2	bc	54	85	6	7	-	-	4-6	4-6	2500
5	Hartland Point	1005.0	+4	SE	3	c	59	85	8	8	4	-	4-6	7-8	2500
	Bristol ...	1008.1	-2	ESE	2	z₀	58	75	6	8	3	1	4-6	9	2500
	Portland Bill ...	1007.2	+10	SSE	3	c	56	85	8	1	4	-	4-6	9	4000
	Plymouth ...	1005.7	+6	SE	3	c	58	85	8	8	-	-	9+	9+	1200
	The Lizard ...	1003.9	+4	SE	4	bc	61	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1002.7	+10	SE'E	4	bc	58	85	8	8	6	3	2-3	4-6	1500
	Guernsey ...														
6	Pembroke ...	1006.1	+6	ESE	5	cq	55	92	7	8	-	-	9+	9+	1500
7	Holyhead ...	1007.9	0	-	0	b	58	75	8	1	-	1	Tr	1	3500
	Chester (Sealand)	1009.3	0	SE	1	z₀f	51	92	5	-	-	-	0	0	-
8	Manchester ...	1009.7	+4	WN	1	m/f	54	85	4	5	-	-	Tr	Tr	2500
10	Spurn Head ...	1009.3	+6	W		F	49	97	1	-	-	-	10	10	<150
	Catterick ...	1010.0	+10	-	0	of-	50	97	3	-	2	-	10	10	300
	Tynemouth ...	1012.1	+8	E	5	ir₀	50	97	5	-	2	-	10	10	1200
11	St. Abbs Head	1013.8	+14	NE	6	r₀r₀	49	85	7	6	2	-	4-6	10	1500
	Leuchars ...	1015.1	+8	ENE	4	r₀r₀	48	92	7	5	2	-	7-8	10	500
12	Renfrew (Abbots I.)	1013.9	+14	ENE	4	c	50	85	7	5	7	-	9	10	1000
	Eskdalemuir ...	1012.5	+16	ENE	3	dd₀	46	92	6	-	2	-	10	10	450
	Point of Ayre ...	1009.9	+6	E'N	3	bc	54	92	7	1	4	-	Tr	2-3	2500
13A	Tiree ...	1013.1	+14	ENE	3	c	51	85	8	5	-	-	9+	9+	2500
13B	Stornoway ...	1019.2	+10	ENE	6	r₀r₀	49	75	8	5	7	-	7-8	9+	1500
15	Dalwhinnie ...	1017.3	+8	ENE	3	ir₀	44	85	7	5	1	-	4-6	10	1500
	Aberdeen ...	1017.6	+8	E	4	r₀r₀	48	85	7	6	2	-	1	10	1500
	Wick ...	1019.9	+12	E	6	c	50	65	8	9	7	8	4-6	9+	800
16	Lerwick...	1023.4	+8	ENE	7	c	47	75	8	5	7	-	4-6	7-8	1500
17	Blacksod Point..	1007.4	+12	ENE	5	c	54	75	7	4	5	-	4-6	7-8	2500
18	Malin Head ...	1011.5	+14	E'S	5	c	52	85	7	9	-	-	9+	9+	1500
	Aldergrove ...	1010.2	+6	E	3	z₀	54	85	6	8	-	-	9+	9+	1800
19	Birr Castle ...	1006.4	+10	SSE	3	c	57	65	8	2	-	5	2-3	7-8	1500
20	Valentia Obsy. †	1001.0	+20	ESE	4	c/pr	58	75	9	2	7	1	7-8	9	2500
	Roches Point ...	1003.0	+14	SE	6	c	57	85	8	6	1	-	7-8	9	1500

OBSERVATIONS at 18h. 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)	Weather 7h.–13h. 22nd (37)	Weather 13h.–18h. 22nd. (38)	Weather 18h. 22nd. to 1h. 23rd (39)	Weather 1h.–7h. 23rd (40)
London (Kew)...	1010.6	+6	ENE	1	bf	50	92	3	-	-	-	0	0	-	1	*	oFFbff	bff	bfefe	oFeferfe
Croydon ...	1009.3	+6	-	0	m	47	92	4	-	-	1	0	Tr	-	1	*	f	bcbm	bmwfF	
S. Farnborough	1009.7	+6	NE'E	2	bf	52	85	2	-	-	-	0	0	-	1	*	bFcbcm₀	bcbz₀f	bfw oFF	oFwdofo
Boscombe Down	1009.4	+8	ENE	2	bc	52	85	6	8	3	1	1	2-3	2500	0	*	bc	cbcm₀	cbm₀bf	bfbcm₀cm₀
Calshot (Soton.)	1008.7	+4	E'N	1	z₀	55	85	6	4	-	1	Tr	1	4000	1	2	o	bcbbcm₀	bm₀wcm₀	bwm₀cir₀cf
Lympne ...	1010.2	+6	E	1	bcf-	51	97	3	5	-	-	4-6	4-6	900	1	§2	mfgbcc	cbcmf	bcffcm₀	cm₀omid₀
Manston ...	1009.8	+2	NNE	1	m/f	52	97	4	5	3	9	1	7-8	5000		*	bccm₀	cmrrm	cmbcm₀	cm₀od₀f₀
Shoeburyness ...	1009.9	+2	NNW	1	bF	46	97	0	-	-	-	0	0	-	1	*	oFeFf	bm₀FFe	bFeof	frrr₀o
Felixstowe ...	1009.6	+2	SE'E	1	z₀	51	92	5	-	-	1	0	Tr	-	1	0	oFbm₀	bm₀	bm₀moff	offcm₀
Gorleston ...	1010.2	+4	NNE	2	F+	55	85	1	-	-	-	10	10	<150	1	1	cz₀mbc	bcoff	offm	omz₀
Mildenhall ...	1010.3	+6	N'E	1	F	47	97	0	-	-	-	10	10	<150	1	*	oFe	oFe	FFd₀F	FFdoFcf
Cranwell ...	1011.2	+8	NW	1	F	46	97	1	-	-	-	10	10	<150	1	*	oFF	oFF	oFF	oFF
Birmingham	1010.4	+4	ENE	1	bf+	50	85	3	-	-	-	0	0	-	1	*	Fbm	bmf	bf	bf
Upper Heyford	1009.8	+8	NE	2	b	51	75	7	-	-	1	0	1	-	1	*	bfFbbc	bcb	bbmFoFe	oFeofe
Ross-on-Wye ...	1009.5	+8	ENE	1	bcfg	50	85	6	5	-	2	Tr	4-6	2500	1	*	Fofcmbc	bc		
Hartland Point	1006.4	+8	E	3	c	54	92	8	8	6	5	4-6	9	2500	0	2	bcir₀	cbcc	cdc	bcc
Bristol ...	1009.1	+8	E	1	z₀	55	85	5	5	-	-	9	9	2500	1	*	b₀cm₀	cm₀pr₀	cbcm₀mw	bcfgorfmw
Portland Bill ...	1008.3	+14	E	3	bc	56	85	8	5	-	-	4-6	4-6	4000	1	3	c	bc	c	co
Plymouth ...	1006.8	+6	ESE	3	c	55	92	8	8	3	2	1	9	1400	0	2	cpr₀c	c	cbc bbcc	ccm₀ir₀cm₀c
The Lizard ...	1005.2	+6	ESE	5	c	56	97	8	8	2	-	7-8	9+	1500	1	2	bc	bcc	cbcc	cprc
Scilly (St. Mary's)	1004.1	+8	ESE	4	bc	54	92	8	8	6	-	2-3	4-6	1500	1	3	cir₀bc	bccbc	cpbc	cir₀c
Guernsey ...																				
Pembroke ...	1007.7	+6	E'S	5	id₀	55	92	7	8	-	-	9+	9+	2000	1	3	cq	r₀idc	c	bcm
Holyhead ...	1009.6	+10	ENE	4	b	52	92	6	-	4	1	0	1	-	1	2	bwbcb	bmb	bm₀w	bm₀wc
Chester (Sealand)	1010.3	+10	NE	1	b	47	92	5	-	-	1	0	1	-	1	*	oFcfb	bmwb	bffp F	d₀d₀fcm₀
Manchester ...	1010.6	+10	NE'N	2	cf+	47	92	2	5	-	-	7-8	7-8	3000	1	*	oFFbff	bmbcff	bffcm₀m	cm₀ir₀
Spurn Head ...	1010.6	+6	SW'W	3	F	49	97	1	-	-	-	10	10	<150	1	2	Ff	Ff	off	oid₀
Catterick ...	1012.6	+14	NE	3	dd	49	97	4	-	2	-	10	10	100	1		wcmodf	ofmdd	odddd₀d₀m	od₀d₀id₀m₀
Tynemouth ...	1014.4	+12	E	6	o/r	50	92	6	-	2	-	10	10	1200	1	4	prmoir	oir₀	oir₀	omir
St. Abbs Head	1015.4	+8	ESE	5	c/r	48	85	7	6	2	-	7-8	10	1500	1	4	cqmr₀	cqr₀	cqrr	cqr
Leuchars ...	1016.9	+10	ENE	4	ir₀	48	97	7	5	2	-	7-8	10	400	2	*	cr₀cirm	cr₀r₀ir₀		cir₀ir
Renfrew (Abbots I.)	1015.5	+10	ENE	4	c/r	49	85	7	5	7	-	2-3	9+	2500	1	*	cm₀id₀c	cir₀	cid₀ir₀	cm₀pr₀c
Eskdalemuir ...	1014.4	+14	NE'E	4	o/	45	92	6	5	-	-	10	10	800	1	*	odd₀	ddoc	oid₀c	c
Point of Ayre ...	1011.5	+12	E	5	bc	52	92	7	5	-	-	4-6	4-6	2500	0	3	bbc	bccbc	cbcc	c
Tiree ...	1015.1	+12	NE'E	4	c	51	85	9	5	-	-	9+	9+	2500	0	3	c	c	c	c
Stornoway ...	1021.1	+14	ENE	5	bc	48	75	7	5	5	-	2-3	4-6	2500	0	3	c	cr₀r₀	bc	
Dalwhinnie ...	1019.2	+14	ENE	2	ir₀	43	85	7	5	-	-	10	10	1500	1	*	oir₀	ir₀o		oir₀c
Aberdeen ...	1019.1	+12	E'S	4	c/r₀	49	85	7	6	2	-	9+	10	1500	1	3	cr₀r₀	r₀ir₀c	cciR	cbc
Wick ...	1021.8	+16	E	5	c	50	75	8	5	7	8	7-8	9	1500	1	3	crrc	cbcc		cprc
Lerwick...	1024.9	+6	NE	6	c/r₀r	44	75	8	8	7	-	4-6	7-8	1500	1	*	c	cpr₀	cbc	bcepr₀
Blacksod Point..	1009.3	+18	ENE	5	bc	53	85	7	3	-	-	2-3	4-6	2500	0	3	bcc	bc	c	bcc
Malin Head ...	1013.4	+20	E	6	z₀	52	75	6	6	-	-	9	9	1500	0	4	cz₀zc	cz₀zc	c	c
Aldergrove ...	1011.9	+10	E'N	4	z₀	51	85	6	5	-	-	10	10	1100	1	*	bbm₀cm₀	cm₀	cm₀	bcm₀c
Birr Castle ...	1008.5	+16	NE	1	c	50	85	8	5	3	-	4-6	7-8	1500	1	*	c	c	c	c
Valentia Obsy. †	1004.3	+22	ENE	4	pr₀	55	85	8	9	-	-	9	9+	2500	1	3	cpr₀prc	cprpr₀	PRqpr₀qc	ccir₀cbc
Roches Point ...	1005.6	+16	SE	5	ir₀	55	92	8	6	2	-	7-8	9+	1500	1	4	rir₀c	cir₀	irbcc	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. r₀, 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.

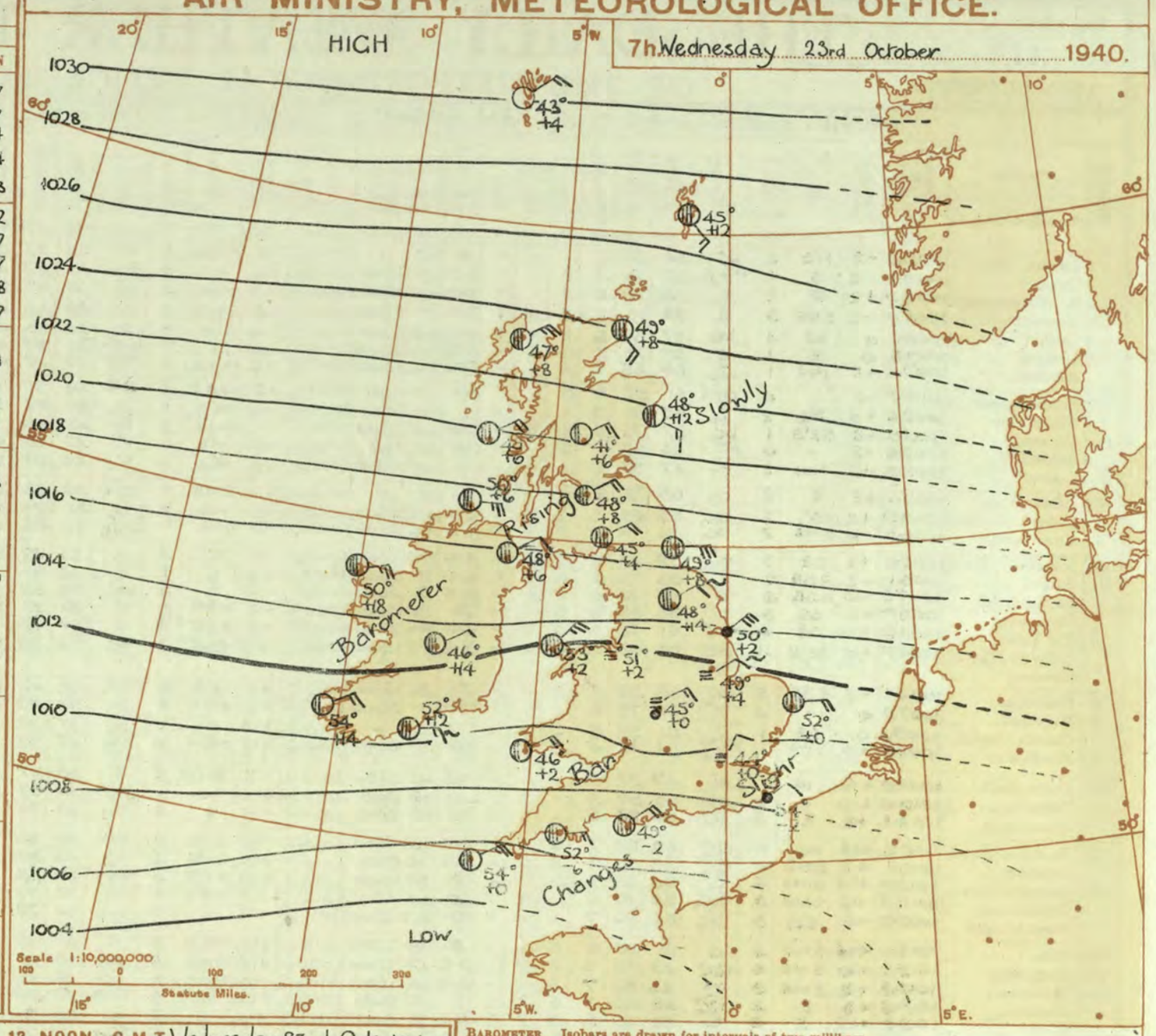
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 23rd October 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 22nd Oct.			18h. G.M.T.			01h. G.M.T. 23rd Oct.			07h. G.M.T.		
III	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN	$C_L C_M$	$ww V h N_h$	DDFWN
109	8-	01854	06584	8-	02853	08585	50	00961	06501	87	81845	05287
115	52	14844	15665	87	81844	43685	53	02854	04636	52	81854	08587
203										8-	01844	06414
206	62	62744	08668	5-	22748	06568	5-	63847	06467	53	01854	06424
210	62	61845	08467	87	81846	06567				3-	00843	09283
220	52	02852	15628							04	01990	06402
230							57	02856	07328	5-	02857	04227
245	6-	62638	04668	52	22744	39568	52	61645	08628	83	02756	09687
260	52	02744	08458	62	22635	07368	53	02743	06266	62	61636	06468
277	5-	02848	07368	5-	02747	10527	53	02864	06426	57	02765	06427
279	5-	08448	28328	5-	05558	37428	--	05538	04428			
285	6-	53538	08458	6-	54538	08558				56	64638	08468
288	5-	21538	06528	5-	45338	04458	5-	54438	37458			
273	18	01667	06305							11	05653	06205
301				00	45290	00040	5-	05668	04228	5-	05647	06427
321	00	43390	00040	00	46309	00049	5-	47318	10228	52	21635	06458
299	5-	52438	08458	5-	47338	02348	5-	08438	06468	62	63434	08668
292	5-	05537	00027	5-	05628	03358	5-	21528	04358	62	05634	06458
310	--	01633	16213	--	48209	32329				--	08418	04348
316	--	44309	12149	--	46009	00049	--	48209	02149	--	57209	04259
333	53	00362	08303	50	01864	00014	00	05630	28100	50	02757	04227
334	--	00900	08100	--	01961	00020				--	46328	00048
340	5-	43208	14148	5-	08468	00046	--	48009	14243	5-	43248	32248
136	--	46109	20149	--	46109	20149	--	48109	04249	5-	05538	04248
336	--	01753	14414	--	01852	14414				--	05632	08428
350	--	43109	04249							--	46209	04249
368												
379	50	01763	14213	00	05636	00003	--	48109	06349	--	46109	08349
390	50	08432	12143	00	47390	00013	--	46109	08149			
382	80	05663	12243	40	08462	00002	--	46209	04149	--	46309	06349
438	86	01864	10314							5-	03529	02529
430	20	01854	12114	20	04662	00003	57	21554	04356			
409				5-	02845	12387	54	00851	08303	07	03690	05367

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 23rd Oct. 1940.
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.	Moderate or fresh east or northeast wind, strong locally; cloudy; some showers or drizzle, becoming cooler.
13 A. W. Scotld. B. N.W. Scotland.	Moderate or fresh east or northeast wind; fair; cool.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate east wind; mainly cloudy; some showers; cool
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1-12.

GENERAL INFERENCE.

Pressure is high over Iceland and low over Spain. Wind will be generally easterly, strong locally, and weather will be cloudy, with local showers or drizzle. Temperature will tend to fall.

FURTHER OUTLOOK.

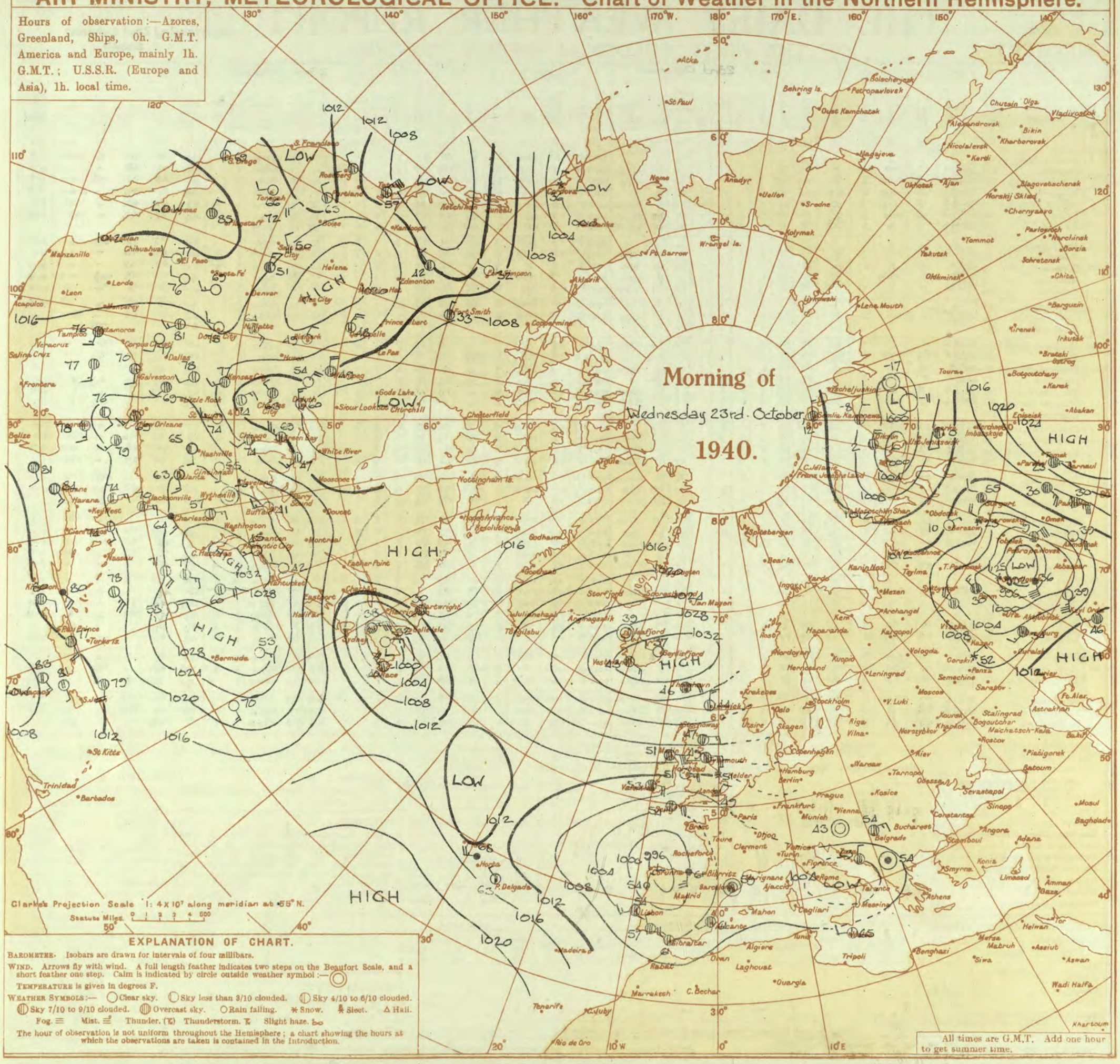
East to N.E. winds for a few days; mainly cloudy; some showers in the East, and some bright intervals.

Forecasts issued at 1030h G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 23rd. October 1940.

No. 28825

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	1010·0	-2	NE	3	F	44	97	1	-	-	-	10	10	<150
	S. Farnborough	226	1010·2	-4	ENE	3	F	44	97	1	-	-	-	10	10	<150
	Boscombe Down	417	1009·7	-2	NNE	2	bf	45	97	3	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1008·8	-6	NNE	3	Z_0	49	85	5	5	-	1	7-8	9	4000
	Lympne ...	346	1010·4	-2	NNE	2	Z_0	51	92	6	5	-	-	9+	9+	3500
	Manston ...	154	1009·8	-4	N	3	Z_0	56	97	6	5	-	-	10	10	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1010·3	-2	N'E	3	f	47	97	2	-	-	-	10	10	<150
	Gorleston ...	5	1011·1	0	N	3	m	51	92	4	5	-	-	10	10	400
	Mildenhall ...	19	1011·2	-2	NE'N	1	f-	43	97	1	-	-	-	10	10	<150
	Cranwell ...	240	1012·0	0	-	0	F	47	97	1	-	-	-	10	10	<150
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1011·3	0	NE	2	F	43	97	1	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007·8	0	E	4	bc	52	92	8	4	-	-	4-6	4-6	1500
	Bristol ...	209	1010·5	+2	ENE	1	f_3	43	92	5	-	3	-	0	2-3	-
	Portland Bill ...	32	1007·9	-6	E	4	c	54	85	8	5	-	-	10	10	4000
	Plymouth ...	82	1007·8	0	E'S	3	c	53	85	7	-	3	-	0	9+	-
	The Lizard ...	240	1005·9	-4	E	6	c	55	92	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1005·6	0	E'S	5	bc	54	97	8	8	4	-	2-3	4-6	1800
	Guernsey ...	175														
6	Pembroke ...	142	1009·7	+2	ENE	4	bc	50	92	7	-	8	-	0	4-6	-
7	Holyhead ...	26	1011·9	+14	E'N	5	b	51	97	6	5	9	-	Tr	Tr	3000
	Chester (Sealand)	16	1012·2	-2	W'N	1	f-	44	97	2	5	-	-	10	10	2000
8	Manchester ...	70	1012·1	0	NE'E	2	i_0	51	92	5	5	-	-	10	10	2200
10	Spurn Head ...	29	1011·8	+4	N'W	1	-f	51	97	3	5	-	-	9+	9+	4000
	Catterick ...	175	1013·8	0	NE	3	d_0	49	97	4	-	2	-	10	10	300
	Tynemouth ...	108	1016·0	+2	E	6	-r	49	92	6	6	-	-	10	10	1000
11	St. Abbs Head	280	1017·4	+2	ESE	5	r_0	48	75	7	5	2	-	7-8	10	1500
	Leuchars ...	36	1019·1	+8	ENE	4	i_0	48	85	7	5	2	-	7-8	10	900
12	Renfrew (Abbots I.)	19	1017·9	+6	NE'E	4	pr	48	85	6	8	-	-	9+	9+	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1014·3	+8	E'N	5	c	50	92	7	5	-	-	9+	9+	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1023·4	+8	ENE	5	bc	46	75	7	5	5	-	2-3	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1023·3	+6	NE	5	c	48	75	8	8	7	-	4-6	7-8	2500
16	Lerwick ...	156	1026·2	+4	NE'N	3	bc	44	75	8	5	-	-	4-6	4-6	2500
17	Blacksod Point	18	1012·9	+12	ESE	4	c	50	92	7	-	4	-	0	7-8	-
18	Malin Head ...	84	1016·5	+6	ESE	6	c	51	75	7	6	-	-	9	9	2500
	Aldergrove ...	268	1015·5	+10	E'N	3	Z_0	48	85	6	5	-	-	9	9	1800
19	Birr Castle ...	173	1011·4	+6	NE	3	c	51	92	8	5	-	-	10	10	4000
20	Valentia Obsy.	30	1008·8	+18	E	4	c	53	85	8	7	-	2	2-3	9	2500
	Roches Point	22	1008·6	+10	E'S	3	c	53	92	8	8	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 23rd. 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)	Temp. Max. Day 7h–18h °F. (31)	Temp. Min. Night 18h–7h °F (32)	Temp. Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 22nd Hrs. (36)
1	London (Kew)	1009·6	0	NE'N	3	f	45	97	3	5	-	-	10	10	1500	1	*	54	42	30	Tr	0·3	1·3
	Croydon ...	1009·4	0	NE	2	F	44	97	1	-	-	-	10	10	<150	1	*	57	42	38	-	1	6·9
	S. Farnborough	1009·4	-2	NE'N	3	f-	45	97	3	-	-	-	10	10	<150	1	*	61	38	35	Tr	0·1	5·8
	Boscombe Down	1009·1	+2	NE	3	Z_0	45	97	6	5	7	-	9	9+	200	1	*	59	41	39	-	0·1	4·7
	Calshot (Sthmtn.)	1007·7	-6	NE	3	Z_0	49	92	6	5	-	-	9+	9+	900	1	2	59	47	43	-	Tr	8·4
	Lympne ...	1009·4	-2	NE	2	id_0	54	97	4	6	2	-	9+	10	300	1	§3	60	48	43	-	Tr	6·3
	Manston ...	1008·8	-2	NE	3	c/r	55	97	5	6	2	-	9+	10	800		*						
2	Shoeburyness ...	1009·5	-8	N'E	2	df	51	97	3	-	2	-	10	10	450	1	*	56	43	39	0·1	2	2·5
	Felixstowe ...	1009·7	-2	NE'E	4	Z_0	53	92	5	5	7	-	4-6	9+	1000	1	2	60	44	40	-	-	6·1
	Gorleston ...	1010·8	0	E	4	o	52	85	5	5	-	-	10	10	800	1	3	57	49	39	-	-	6·4
	Mildenhall ...	1010·1	-6	NNW	2	f-	49	97	3	5	-	-	9+	9+	600	1	*	49	42	43	0·3	0·3	0·0
	Cranwell ...	1011·9	+4	NE	2	m/f	49	97	4	5	-	-	10	10	300	1	*	49	42	41	Tr	Tr	0·0
3	Birmingham ...	1011·4	0	ENE	3	df	45	97	2	-	-	-	10	10	<150	1	*	57	45	37	-	Tr	4·4
	Upper Heyford	1010·6	-2	ENE	2	f	46	97	3	-	-	-	10	10	<150	1	*	62	41	34	-	Tr	*
4	Ross-on-Wye																*	57			Tr		
5	Hartland Point	1007·5	+2	NE	4	c	49	92	7	5	2	-	7-8	9+	1500	0	3	60	49	48	Tr	-	4·5
	Bristol ...	1009·8	-2	NE	3	m/f	43	97	4	5	-	-	10	10	300	1	*	60	41	30	Tr	-	5·2
	Portland Bill ...	1007·2	-2	NE	4	o	49	92	8	5	-	-	10	10	2500	1	3	57	47	*	-	-	*
	Plymouth ...	1006·0	-6	E	3	c	52	75	8	-	7	-	9	9	5700	0	2	59	51	48	0·3	Tr	1·0
	The Lizard ...	1006·8	+2	ENE	6	c	54	75	8	8	2	-	9	10	1500	1	4	61	53	*	-	1	8·3
	Scilly (St. Mary's)	1004·7	0	NE'E	5	c	54	85	7	5	3	-	4-6	7-8	1800	1	3	58	53	*	0·2	1	5·5
	Guernsey ...																						
6	Pembroke ...	1009·2	+2	NE'E	4	Z_0	46	92	5	5	6	-	2-3	4-6	2500	1	2	57	45	*	0·3	Tr	1·0
7	Holyhead ...	1011·4	+2	NE	5	c/r	53	92	7	5	-	-	10	10	1200	1	3	58	49	46	-	Tr	9·2
	Chester (Sealand)	1011·7	+2	NE'N	2	m	51	92	4	5	-	-	10	10	3000	1	*	57	42	38	-	0·2	4·3
8	Manchester ...	1011·9	+2	NE'E	4	dr	52	85	5	6	2	-	7-8	10	400	1	*	56	44	34	-	Tr	3·5
10	Spurn Head ...	1012·3	+2	NE'E	6	i_0	50	85	6	5	-	-	10	10	2500	1	4	50	49	*	Tr	Tr	0·0
	Catterick ...	1015·3	+14	NE'E	2	c/d	48	97	6	6	2	-	9+	10	1300	1	*	51	47	47	0·3	0·4	0·0
	Tynemouth ...	1016·9	+8	E	6	c/r	49	92	6	6	-	-	10	10	1000	1	4	52	48		3	1	
11	St. Abbs Head	1018·0	+4	ESE	5	i_0	48	92	7	5	2	-	7-8	10	1500	1	3	50	47	*	2	2	*
	Leuchars ...	1020·1	+10	ENE	4	i_0	48	85	7	5	2	-	9	10	900	2	*	49	47	45	8	2	0·0
12	Renfrew (Abbots I.)	1018·4	+8	ENE	4	c	48	85	7	5	7	-	7-8	10	1800	1	*	50	46	43	0·1	0·1	0·0
	Eskdalemuir ...	1017·0	+4	ENE	4	c	45	85	8	5	-	-	10	10	800	1	*	48	43	43	1	0·1	0·0
	Point of Ayre ...	1014·1	+2	E'N	6	c	50	92	7	5	2	-	7-8	10	2500	0	4	55	49	*	-	-	8·0
13A	Tiree ...	1019·0	+6	NE'E	4	c	49	85	8	5	-	-	9	9	1800	0	3	52	47	*	-	-	0·4
13B	Stornoway ...	1024·2	+8	ENE	5	c	47	75	8	5	7	-	7-8	9+	2500	1	3	57	46	*	4	-	1·1
15	Dalwhinnie ...	1022·2	+6	ENE	3	bc	41	85	8	5	-	-	2-3	2-3	1500	1	*	44	40	35	1	1	0·0
	Aberdeen ...	1022·5	+12	ESE	3	c	48	75	8	8	-	-	7-8	7-8	1500	1	3	49	47	44	2	2	0·0
	Wick ...	1024·1	+8	SE	4	c	49	75	8	9	7	8	4-6	9	1500	1	2	50	46	*	1	1	*
16	Lerwick ...	1029·3	+12	SE	3	c/pr	45	92	8	8	7	-	7-8	9+	800	1	*	48	42	*	Tr	1	5·6
17	Blacksod Point	1015·1	+18	E'N	5	c	50	92	7	5	-	-	7-8	7-8	1500	0	3	56	48	*	-	-	*
18	Malin Head ...	1017·0	+6	E	5	c	50	75	8	9	-	-	7-8	7-8	5700	0	2	54	47	*	Tr	-	0·3
	Aldergrove ...	1015·7	+6	NE'E	2	c	48	85	7	5	-	-	10	10	2000	1	*	54	48	41	-	-	4·4
19	Birr Castle ...	1012·9	+14	ENE	1	c	46	99	8	5	-	5	4-6	7-8	2500	1	*	59	46	43	-	-	4·1
20	Valentia Obsy.	1010·4	+14	ENE	3	bc	54	85	7	7	-	-	4-6	4-6	2500	1	2	58	52	45	2	4	2·8
	Roches Point	1010·3	+12	E	3	c	52	85	8	5	-	-	7-8	7-8	2500	1	4	57	52	*	1	0·5	*

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. % (To-day.)	Humidity 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew ...	18	oFF bff	bff	bfefefe	54	42	30	Tr	0·3	1·3	•	•	3
Croydon ...	217	f	bcbm	bmoff	57	42	38	-	1	6·9	•	•	1
Greenwich (Royal Observatory) ...	149												
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•									•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•									•
Camden Square ...	110			•						•	•		•
Kensington ...	80	bef	mbc	•	53	43	33	Tr	0·4		97	99	•
Hampstead Observatory ...	450										•		•

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.
0·5	19h. on 22nd	<0·1	0-2h. on 23rd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...											•	•		

‡ 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.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Preciptious.
4	Rough.	9	Confused.

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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

Thursday 24th. October 1940.

No. 28826

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)...	1009·7	0	NE	4	z_o	53	85	5	5	-	-	10	10	1500
	Croydon	1009·3	−2	NE	3	id_o	51	97	4	5	-	-	10	10	500
	S. Farnborough	1009·4	−2	NE'E	3	z_o	52	92	5	5	2	-	7-8	10	500
	Boscombe Down	1008·8	−4	NE'N	4	z_o	51	92	6	5	7	-	9	10	600
	Calshot (Soton.)	1008·1	−2	ENE	4	m	54	92	4	5	-	-	10	10	500
	Lympne ...	1009·2	−2	NE	3	m	54	92	4	5	-	-	10	10	100
	Manston ...	1009·3	−2	NE	4	id_o	52	97	4	6	2	-	9+	10	400
2	Shoeburyness ...	1010·3	+2	NE	4	id_o	53	92	4	-	2	-	10	10	800
	Felixstowe ...	1010·8	+6	ENE	5	o/r	51	92	5	-	2	-	10	10	800
	Gorleston ...	1012·7	+4	E'S	6	o	50	85	6	6	-	-	10	10	800
	Mildenhall ...	1011·9	+2	ENE	5	dd_o	49	92	5	6	2	-	7-8	10	500
	Cranwell ...	1014·1	+10	E	4	z_o	48	85	6	5	-	-	10	10	400
3	Birmingham	1012·2	0	NE	4	z_o	50	85	5	5	-	-	9+	9+	1500
	Upper Heyford	1010·7	0	ENE	3	z_o	52	85	6	5	2	-	9	10	800
4	Ross-on-Wye ...	1010·6	−6	ENE	4	z_o	53	75	6	5	-	-	10	10	1500
5	Hartland Point	1007·4	−6	NE	4	c	51	92	7	5	2	-	7-8	10	1000
	Bristol	1010·0	−6	ENE	3	dd_o	51	92	5	6	2	-	9	10	400
	Portland Bill ...	1006·9	−4	NE	4	o	52	92	6	5	-	-	10	10	1500
	Plymouth ...	1006·1	−6	E'N	4	tlr_o	50	97	5	-	2	-	10	10	300
	The Lizard ...	1004·6	−6	ENE	5	o/pr	52	97	6	5	-	-	10	10	900
	Scilly (St. Mary's)	1005·3	0	NE	5	ir_o	52	85	6	5	-	-	10	10	1500
	Guernsey ...														
6	Pembroke ...														
7	Holyhead ...	1012·9	+2	ENE	7	cq	53	85	6	5	7	-	7-8	9+	1300
	Chester (Sealand)	1013·8	+6	E'N	3	z_o	51	75	5	5	-	-	10	10	1800
8	Manchester ...	1014·1	+4	NE	5	z_o	51	75	6	5	-	-	10	10	1000
10	Spurn Head ...	1014·4	+4	E	6	c	51	85	7	5	7	-	4-6	9+	4000
	Catterick ...	1018·4	+16	E	3	ir	47	92	6	5	2	-	9	10	800
	Tynemouth ...	1020·4	+10	E	6	c/r	49	85	6	6	-	-	10	10	800
11	St. Abbs Head	1021·1	+12	E	7	c/r	47	75	7	5	2	-	7-8	10	2000
	Leuchars ...	1022·8	+14	E	5	c/r	49	75	7	8	-	-	9+	9+	900
12	Renfrew (Abbots I.)	1020·4	+4	E'N	4	c	51	75	7	8	3	-	4-6	7-8	1600
	Eskdalemuir ...	1019·4	+6	E	5	ir_o	45	85	8	6	-	-	10	10	800
	Point of Ayre ...	1016·1	+6	E'N	4	c	52	85	8	6	1	-	9	10	1500
13A	Tiree	1020·4	0	NE'N	4	bc	52	75	9	7	-	-	2-3	2-3	3500
13B	Stornoway ...	1025·4	0	ENE	4	bc	50	75	8	5	-	-	2-3	2-3	2500
15	Dalwhinnie ...	1024·0	+4	ENE	3	c	45	75	7	8	4	-	4-6	7-8	1500
	Aberdeen ...	1025·3	+10	ESE	4	c	47	75	8	8	-	-	9+	9+	2500
	Wick	1026·9	+10	SE	5	pr	48	85	8	8	7	8	7-8	9+	1500
16	Lerwick... ...	1029·0	−2	S	3	c	48	75	8	8	3	-	4-6	7-8	1500
17	Blacksod Point..	1016·2	0	E'N	6	c	51	85	7	5	-	-	9+	9+	2500
18	Malin Head ...	1018·4	+4	E	5	c/pr	51	75	7	9	-	-	9	9	1500
	Aldergrove ...	1017·2	+2	E'N	4	ir_o	49	85	7	5	-	-	10	10	1100
19	Birr Castle ...	1013·6	−4	ENE	2	c	52	85	8	5	1	-	7-8	10	1500
20	Valentia Obsy. †	1012·2	−2	NE	4	c	55	75	8	1	4	2	1	7-8	2500
	Roches Point ...	1010·8	−4	NE	3	c	57	75	8	8	-	-	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 23rd. 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)	1010.8	+8	NE	4	d_od_o	49	85	5	5	-	-	10	10	1500	1	*
Croydon	1010.3	+6	E'S	4	d_od_o	48	97	4	6	2	-	10	10	700	1	*
S. Farnborough	1010.3	+10	NE'E	4	id_o	49	92	4	5	2	-	4-6	10	500	1	*
Boscombe Down	1009.2	+6	NE	4	z_o	50	85	6	5	-	-	10	10	700	0	*
Calshot (Soton.)	1008.4	+4	ENE	4	z_o	53	85	5	5	-	-	10	10	700		
Lympne	1010.4	+6	ENE	4	m	50	92	4	-	2	-	10	10	100	1	§4
Manston	1010.6	+8	ENE	4	m	50	92	4	6	2	-	9	10	500	*	*
Shoeburyness	1011.3	+8	ENE	5	ir_o	50	85	4	5	2	-	7-8	10	800	1	*
Felixstowe	1011.7	+8	ENE	6	z_o	51	75	6	5	-	-	10	10	1500	1	4
Gorleston	1014.0	+8	E'N	5	c	50	85	6	8	-	-	9+	9+	1500	1	4
Mildenhall	1013.2	+10	ENE	4	bc	48	75	7	5	-	-	4-6	4-6	4000	1	*
Cranwell	1015.6	+12	NE	4	d_od_o	47	97	5	5	-	-	10	10	500	1	*
Birmingham	1014.0	+10	ENE	4	c	47	75	5	5	7	-	4-6	9+	1500	1	*
Upper Heyford	1012.1	+10	NNE	5	c/d	47	85	5	6	2	-	7-8	10	1000	1	*
Ross-on-Wye	1012.1	+12	ENE	5	p/d	48	85	6	5	-	-	10	10	800	1	*
Hartland Point	1007.6	+8	NE	5	c/r	52	97	7	6	2	-	7-8	10	800	1	4
Bristol	1010.7	+6	NE	4	z_o	50	92	6	5	2	-	9+	10	800	1	*
Portland Bill	1007.3	+6	NE	5	o	52	92	6	5	-	-	10	10	1500	1	5
Plymouth	1006.6	+6	ENE	4	c	53	85	5	6	7	-	7-8	9+	1000	1	2
The Lizard	1008.3	+10	ENE	6	o	54	92	5	5	-	-	10	10	900	1	4
Scilly (St. Mary's)	1005.8	+6	NE'E	4	c/r	53	97	6	5	2	-	7-8	10	800	1	3
Guernsey																
Pembroke	1010.2	+2	ENE	4	r_or_o	53	75	6	5	-	-	10	10	800	1	2
Holyhead	1013.5	+4	E'N	7	cq	52	85	6	5	2	-	7-8	10	1300	0	4
Chester (Sealand)	1014.9	+8	ENE	2	z_o	49	65	6	5	-	-	10	10	2200	1	*
Manchester	1015.4	+10	ENE	5	z_o	49	75	5	5	3	-	4-6	9	1000	1	*
Spurn Head	1015.6	+4	NE	6	cq	50	75	7	5	7	-	4-6	9	4000	1	4
Catterick	1020.2	+14	ENE	3	c	45	75	7	5	7	-	4-6	9+	2500	1	
Tynemouth	1022.2	+12	E	6	c	46	65	7	9	-	-	9	9	1500	1	4
St. Abbs Head	1023.3	+12	E	6	cq	46	65	7	5	2	-	7-8	10	2000	0	4
Leuchars	1024.2	+6	E	3	c	47	75	8	8	-	-	9	9	1200	1	*
Renfrew (Abbots I.)	1022.8	+18	E'N	4	b	45	75	7	-	4	-	0	1	-	1	*
Eskdalemuir	1022.0	+14	NE'E	3	c	41	85	8	5	-	-	9+	9+	1500	1	*
Point of Ayre	1018.1	+16	E'S	5	ir_o	50	85	8	6	1	-	9	10	1500	1	4
Tiree	1021.6	+12	E'N	3	c	49	85	9	5	-	-	9+	9+	2500	0	3
Stornoway	1025.7	+6	ENE	4	c	47	75	7	5	7	-	7-8	7-8	2500	1	2
Dalwhinnie	1024.8	+10	N	3	bc	41	75	7	4	5	-	2-3	4-6	2500	0	*
Aberdeen	1026.2	+6	E'S	3	pr	46	65	8	8	-	8	9+	9+	2500	1	3
Wick	1027.2	+4	SSE	5	c/pr	47	85	7	8	7	8	7-8	9	1500	1	3
Lerwick	1028.8	0	W	3	bc	43	75	8	5	-	-	4-6	4-6	1500	0	*
Blacksod Point	1016.3	+4	ENE	5	c	51	97	7	5	-	-	10	10	800	0	3
Malin Head	1019.6	+12	E	5	c	51	65	8	9	-	-	9	9	4000	0	4
Aldergrove	1018.3	+10	ENE	4	c/r	48	85	6	5	2	-	9	10	1400	1	*
Birr Castle	1013.5	+2	ENE	3	c	50	85	8	5	1	-	7-8	10	2500	1	*
Valentia Obsy. †	1012.7	+6	NE'E	3	c	52	85	8	5	-	5	9	9+	1500	0	2
Roches Point	1011.2	+6	NE	3	bc	54	85	7	5	-	-	4-6	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 23rd. (37)	Weather 13h.—18h. 23rd (38)	Weather 18h. 23rd to 1h. 24th. (39)	Weather 1h.—7h. 24th. (40)
London (Kew)	ofdcmcm	$cm_od_od_o$	cm_o	cd_ocm_o
Croydon	d	$cmfd_od_om$	$cdmm_o$	cz_om_o
S. Farnborough	d_ofpc	cm_od_om	cd_ofm_o	cz_oc
Boscombe Down	cm_o	cm_o	oir_ocm_o	cm_o
Calshot (Soton.)	cmcrn	$cmom_o$	om_ocm_o	om_ocm_o
Lympne	r	id_ocm_om	omm_o	cm_o
Manston	cr_orcm	cid_ocm	cid_omm_o	cm_o
Shoeburyness	fdm_o	id_oir_or	cr_omcm_o	cm_o
Felixstowe	omr_ocm	om_o	cm_oc	c
Gorleston	dd_oo	c	cq	cq
Mildenhall	$cfeidddm_o$	$cd_od_om_o$	bcbcbcbco	bbcbcw
Cranwell	cmddcm	$cm_od_od_o$	$dd_om_ocm_o$	cm_opr_oc
Birmingham	fc	coc	cbcc	cr_o
Upper Heyford	$ofccm_o$	cm_oid_om	om_o	cm_obcbc
Ross-on-Wye	$omom_o$	$cz_oom_od_o$	oc	bcc
Hartland Point	c	ir_orc	cp	cir_o
Bristol	$dmdd_o$	$om_odd_or_ocm_o$	cir_ocm_o	$cbcm_ow$
Portland Bill	o	o	o	o
Plymouth	cir_orr	$ctlrrcm_o$	cm_oircm_o	cm_oir_ocm
The Lizard	cprc	crrc	c	o
Scilly (St. Mary's)	cir_o	cir_o	cm_o	cm_o
Guernsey				
Pembroke		$bcom_oir_o$	om_oc	cbc
Holyhead	cocq	cqm_o	$cqir_ob$	b
Chester (Sealand)	$cmrr_om_o$	cm_oz_oc	czb	bm_oxb
Manchester	$cmid_o$	cz_o	cz_obz_o	bz_o
Spurn Head	ocq	cq	cq	cqpr
Catterick	$coirm_o$	$cirm_oc$	bcbc	cprbc
Tynemouth	oir_o	oc	co	ocp
St. Abbs Head	$cqir_o$	cq	$cqir_o$	r_oqc
Leuchars	$cir_ocr_or_oc$	cpr_oc	cbcc	pr
Renfrew (Abbots I.)	cid_o		$bbcPRpr_o$	cpr_obc
Eskdalemuir	cir_o	cir_oc	cbc	bc
Point of Ayre	cir_o	cir_o	cbcb	b
Tiree	bc	bc	bc	bc
Stornoway	c	bcc	bc	bc
Dalwhinnie	bcprc	cbc		bcc
Aberdeen	cprc	cpr	cpr_o	cPR
Wick	pr_obcc	bcprc	cbc	bc
Lerwick	c	cbc	bccpr	cpr_o
Blacksod Point	c	c	c	bc
Malin Head	cprcjpc	c	c	c
Aldergrove		cir_om_oc	bcm_ob	c
Birr Castle	c	c	cir_o	c
Valentia Obsy. †	$bccz_obc$	bcc	bcbbcm	$bccm_oc$
Roches Point	bcc	bc	ir_o	bcbbc

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.*

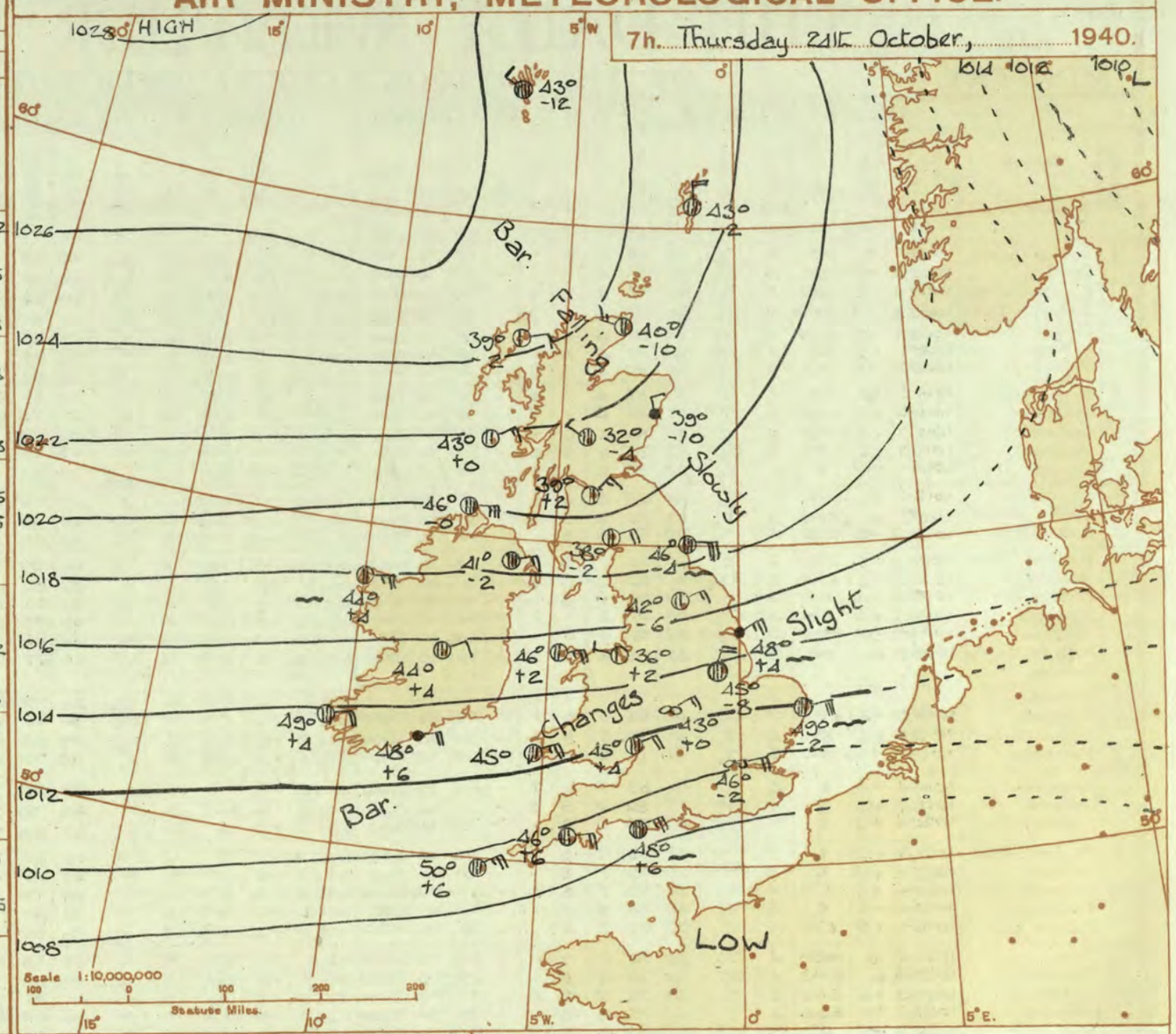
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 24th October, 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 23rd Oct.			18h. G.M.T.			01h. G.M.T. 24th Oct.			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
109 2-	01863	10423				5-	01854	00004			
115 87	01854	08585	51	02954	08485				71	01953	12214
203 24	01853	08413	8-	01854	08314						
206			53	02853	08484	50	01864	00014	5-	01854	00014
210 53	25854	09485	36	01854	10224	50	00862	00012	5-	01965	22215
220 04	01990	08502	50	02756	08316				04	01890	00002
230 7-	01965	04315	4-	01854	08284	5-	00052	03202	5-	01965	06115
245 83	02745	42687	9-	25847	08687	8-	00862	00012	9-	25845	32485
260 83	02744	08327	84	02855	06326	5-	02877	06487	80	01755	06315
277 57	02865	40527	57	02764	41628	50	00861	56301	54	01963	02213
279			--	51748	04658						
285 6-	63638	08668	6-	22637	08567				6-	81738	08468
288 62	62635	06558	53	02744	06366				8-	25846	04486
273 57	02763	05300	57	02763	05306						
301 5-	05648	08428	57	51646	08458	53	02763	06326	50	05663	06303
321 5-	02758	39528				50	05654	04414			
299 62	62635	08668	5-	01745	08715	50	01744	08715	8-	25745	06685
292 57	61845	06458	57	02854	29467	5-	22757	02267	5-	02765	02225
310 --	57209	04629	--	21538	04648				--	01634	08414
316 62	52525	02558	62	22635	04468	5-	05647	06457			
333 50	05654	08324	6-	05647	06627	5-	05655	08425	53	01861	07302
334 --	02636	06227	--	03538	02858				--	01542	08113
340 5-	21638	40458	5-	05667	40457	5-	05657		03	00790	32202
136 5-	21648	07358	4-	02767	06417	53	81654	06486			
336 --	02643	08427	--	57433	04428				--	02852	04415
350 5-	05528	03548	5-	06638	37558				54	05673	04454
368											
379 52	06643	04428	6-	21528	06558	04	05690	06501	57	05635	06515
390 5-	08448	04328	5-	47338	06358	5-	05548	07448	5-	05657	06428
382 52	51546	04358	52	51547	37428	52	05656	04428	50	01761	02301
438 5-	03538	02528							02	14548	02628
430			5-	08438	04528	5-	22538	04568	50	05646	06327
409			57	02644	03567	57	05654	04328	57	01751	05325

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 24th October 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate northeast wind backing north to northwest, fresh on coasts; mainly cloudy; showers chiefly near the East Coast; some bright intervals at night; rather cold.
5 S.W. England 6 South Wales ...	Moderate northeast wind fresh on coasts backing north; mainly fair; rather cold, local night frost.
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.	Moderate northeast wind fresh on coasts backing northwest and decreasing temporarily; variable cloud; showers; some bright intervals; rather cold.
13 A. W. Scotld. / B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light northwest wind veering northeast tomorrow. Moderate or fresh strong locally on coasts. Variable cloud; showers; rather cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 7-12.

GENERAL INFERENCE.

An anticyclone is centred over Iceland and a depression over Finland is moving quickly south. There will be showers today chiefly in eastern and northern districts with some bright intervals in the west. Showers are likely to become more general tomorrow.

FURTHER OUTLOOK.

A spell of north or northeast winds. Showers of rain or hail. Bright intervals.

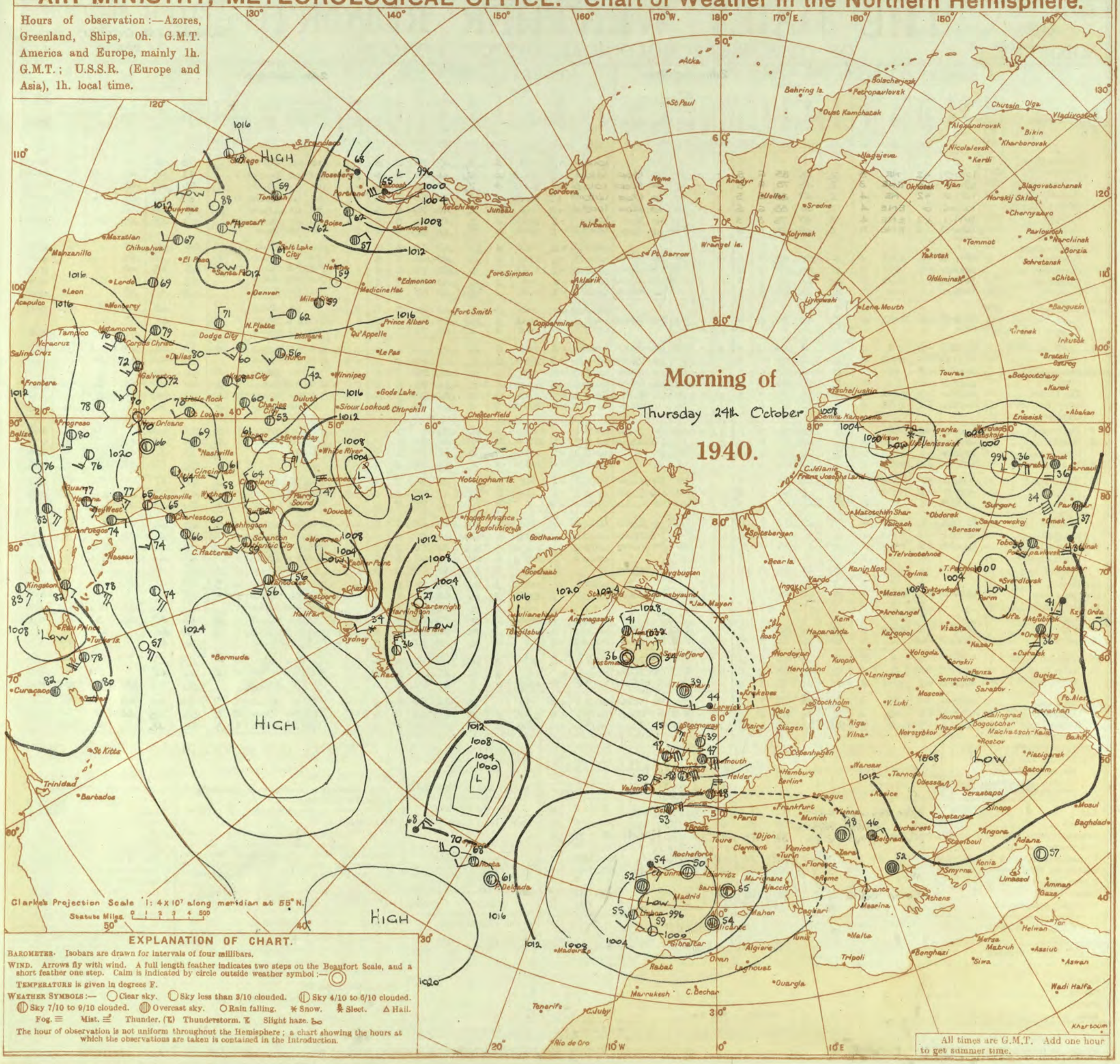
Forecasts issued at 10·30h.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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
Thursday 24th October 1940.
No. 28826

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)	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	1010.9	-2	NE	5	z_0	48	85	6	5	-	-	10	10	1500
	S. Farnborough	226	1011.2	+2	ENE	3	z_0	48	75	6	5	-	-	10	10	2000
	Boscombe Down	417	1011.0	+2	NE	4	z_0	47	85	5	5	-	-	10	10	1700
	Calshot (Sthmtn.)	8	1009.6	0	ENE	4	z_0	50	85	6	5	-	-	10	10	1400
	Lympne ...	346	1011.1	+2	ENE	4	z_0	47	75	5	5	-	-	10	10	300
	Manston ...	154	1010.9	-4	ENE	5	z_0	49	75	5	6	2	-	7-8	10	400
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1011.8	-2	ENE	6	c	50	65	7	5	-	-	9+	9+	2500
	Gorleston ...	5	1013.9	-2	E'N	5	c	50	75	6	8	-	-	7-8	7-8	1500
	Mildenhall ...	19	1013.4	-2	NNE	3	bc	44	92	7	5	-	-	2-3	2-3	4000
	Cranwell ...	240	1015.9	-2	NE	3	z_0	45	85	6	5	-	-	10	10	3500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013.2	+2	ENE	4	z_0	44	85	6	5	-	-	7-8	7-8	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1008.2	-2	NE	6	c	49	85	6	9	6	-	7-8	9+	1500
	Bristol ...	209	1011.9	+2	ENE	6	z_0	46	85	6	5	-	-	10	10	2600
	Portland Bill ...	32	1008.0	+4	NE	5	o	48	55	6	5	-	-	10	10	1500
	Plymouth ...	82	1007.8	+6	E'N	5	z_0	50	85	6	5	2	-	4-6	10	1000
	The Lizard ...	240	1007.0	+4	ENE	6	c	51	92	7	5	2	-	9	10	800
	Scilly (St. Mary's)	163	1007.4	+4	ENE	4	c	53	85	6	5	-	-	10	10	1200
	Guernsey ...	175														
6	Pembroke ...	142	1011.3	+6	NE'E	5	c	49	75	7	8	2	-	4-6	9+	2500
7	Holyhead ...	26	1015.9	+6	E'N	7	bc	48	85	8	5	3	-	1	2-3	4500
	Chester (Sealand)	16	1016.9	+2	NNE	2	z_0	42	75	6	-	-	-	0	0	-
8	Manchester ...	70	1017.4	+6	NE'E	3	z_0	43	65	6	-	-	-	0	0	-
10	Spurn Head ...	29	1015.9	0	NE'N		cq	49	65	7	5	-	-	9+	9+	4000
	Catterick ...	175	1019.7	-18	NE'N		bc	42	85	8	5	3	-	2-3	4-6	2200
	Tynemouth ...	108	1021.9	-6	E	6	o	47	55	6	6	-	-	10	10	1200
11	St. Abbs Head	280	1022.8	-6	NE	6	ir	41	92	7	5	2	-	7-8	10	2000
	Leuchars ...	36	1024.1	-4	ENE	4	c	*	*	8	8	-	-	7-8	7-8	2200
12	Renfrew (Abbots I.)	19	1023.5	-4	NE'E	3	pr	41	85	7	8	-	-	9+	9+	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1019.8	0	E'N	6	b	45	85	8	2	-	-	1	1	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1026.3	+2	ESE	3	b	45	65	7	1	-	-	Tr	Tr	3500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1027.1	-6	ESE	2	bc	45	65	7	7	-	-	4-6	4-6	2500
16	Lerwick ...	156	1026.7	-14	W	3	pr	44	85	7	8	7	-	7-8	9+	800
17	Blacksod Point	18	1017.9	+8	E	5	c	49	85	7	5	-	-	9+	9+	2500
18	Malin Head ...	84	1021.7	+10	E	6	c	47	65	8	4	6	-	2-3	7-8	5700
	Aldergrove ...	268	1020.3	+2	E'N	4	b	41	75	7	5	-	-	1	1	3500
19	Birr Castle ...	173	1015.5	+4	NE	3	ir_0	46	92	7	5	-	-	10	10	1500
20	Valentia Obsy.	30	1013.3	+6	NE	4	z_0	50	85	6	5	-	-	4-6	4-6	1500
	Roches Point	22	1012.4	+2	NE	3	bc	50	85	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 24th 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 23rd hrs. (36)
London (Kew)	1010.7	+4	NE	5	z_0	47	75	6	5	-	-	10	10	1500	1	*	53	46	45	Tr	Tr	0.0
Croydon	1010.1	-2	ENE	4	z_0	46	85	5	5	2	-	4-6	10	2000	1	*	52	45	45	0.5	Tr	0.0
S. Farnborough	1010.5	0	ENE	3	z_0	46	75	6	5	-	-	10	10	2500	1	*	53	46	45	Tr	Tr	0.0
Boscombe Down	1010.7	+2	NNE	4	c	44	85	7	5	-	-	10	10	2900	0	*	53	44	43	-	Tr	0.0
Calshot (Sthmtn.)	1009.4	+2	NE	3	z_0	48	75	6	5	-	-	10	10	4500	1	§2	55	48	46		-	0.0
Lympne	1010.1	-2	ENE	4	z_0	47	75	6	5	-	-	10	10	900	1	*	57	47	45	Tr	-	0.0
Manston	1009.9	-2	ENE	5	z_0	48	85	6	6	2	-	9	10	700								
Shoeburyness	1010.7	-2	NE'E	4	pr	49	75	6	8	-	-	10	10	2500	1	*	54	49	47	1	Tr	0.0
Felixstowe	1010.9	-2	ENE	6	c	49	65	7	8	-	-	9+	9+	3000	1	3	54	49	48	0.4	-	0.0
Gorleston	1012.6	-2	ENE	6	c	49	75	6	8	-	-	7-8	7-8	800	0	4	52	48	46	Tr	-	0.0
Mildenhall	1012.3	-2	NE	3	c	43	92	7	5	-	-	7-8	7-8	4000	1	*	52	43	36	0.1	Tr	0.0
Cranwell	1014.3	-8	NNE	4	c/pr	45	85	7	8	-	-	9+	9+	2500	1		49	43	37	1	0.2	0.0
Birmingham	1014.0	0	NE	3	z_0	43	75	5	5	7	-	9	10	1500	1	*	51	43	38	*	0.5	0.0
Upper Heyford	1012.5	-2	NNE	3	bc	43	85	7	5	4	-	2-3	4-6	2500	1	*	52	42	37	0.1	—	*
Ross-on-Wye	1013.1	+4	NE	4	c	45	75	7	5	1	-	9+	10	1500	1	*	54	44	41	Tr	-	0.2
Hartland Point	1009.0	+6	NE	6	c	48	85	8	9	4	8	4-6	7-8	1000	0	4	53	45	45	0.6	Tr	0.0
Bristol	1011.8	-2	ENE	3	z_0	42	92	6	5	-	-	7-8	7-8	1200	1	*	52	40	34	Tr	Tr	0.0
Portland Bill	1008.8	+6	NE	5	c	48	92	7	5	-	-	10	10	2500	1	5	52	46	*	-	-	*
Plymouth	1008.5	+6	ENE	4	c	48	75	8	5	7	-	4-6	7-8	2000	1	3	54	47	45	6	Tr	0.0
The Lizard	1007.8	+12	ENE	6	o	50	85	7	5	-	-	10	10	1000	0	4	56	50	*	2	-	0.0
Scilly (St. Mary's)	1007.9	+6	NE'E	5	c	50	85	8	5	2	-	9	10	1200	1	3	55	50		1	-	0.0
Guernsey																						
Pembroke	1012.1		NE'E	5	bc	45		7	1	7		Tr	2-3	2500	1	2	56	44	*	Tr	-	3.9
Holyhead	1015.7	+2	ENE	5	bc	46	85	8	1	3	-	2-3	2-3	2500	1	3	54	45	42	-	Tr	0.0
Chester (Sealand)	1016.3	+2	WNW	1	b	36	85	5	-	3	-	0	Tr	-	1	*	52	33	30	0.1	-	0.0
Manchester	1016.0	-4	NE'N	3	z_0	40	85	5	-	-	-	0	0	-	1		52	39	32	Tr	-	0.2
Spurn Head	1013.6	+4	NE	5	pr	48	85	7	6	4	1	2-3	9	800	1	4	52	47	*	Tr	Tr	0.0
Catterick	1018.2	-6	NE	3	bc/pr	42	92	8	8	-	-	4-6	4-6	2500	1	*	48	39	35	0.6	0.5	0.0
Tynemouth	1020.1	-4	E	6	c/pr	46	75	7	8	-	-	7-8	10	1200	1	4	50	44	41	0.5	1	*
St. Abbs Head	1021.0	-4	NE	5	c	44	65	7	8	6	-	4-6	7-8	2500	0	4	49	40	*	1	3	*
Leuchars	1022.4	-6	NNE	2	bc/pr	41	92	8	8	1	-	4-6	7-8	1500	1	*	51	40	37	1	1	0.0
Renfrew (Abbots I.)	1022.6	+2	NE'N	3	bcjp	39	85	9	8	-	-	4-6	4-6	1500	1	*	52	38	31	0.4	1	0.3
Eskdalemuir	1020.5	-2	NE'E	4	bc	38	85	8	5	-	-	4-6	4-6	2500	1		47	36	34	0.2	-	0.0
Point of Ayre	1019.1	0	E'N	5	bc	45	85	8	8	4	-	1	2-3	2500	0	4	53	44	*	Tr	Tr	0.0
Tiree	1023.2	0	NE'E	3	bc	43	75	9	5	4	-	2-3	2-3	3500	0	3	53	41	*	-	-	4.1
Stornoway	1025.7	-2	ENE	2	b	39	75	9	1	-	-	Tr	Tr	4000	1	*	57	32	*	-	-	4.7
Dalwhinnie	*	-4	NW	1	c	32	97	7	5	-	-	7-8	7-8	1500	1	*	46	30	25	0.2	Tr	1.4
Aberdeen	1023.5	-10	NNW	2	pr	39	97	8	8	-	8	9	10	1500	1	3	48	39	36	3	3	0.1
Wick	1025.1	-10	WNW	3	bc	40	85	8	5	4	8	2-3	2-3	2500	1	2	49	34	*	0.1	-	
Lerwick	1024.5	-2	N	4	c	43	92	8	8	7	-	7-8	9	1500	1	*	50	42	*	-	0.3	5.8
Blacksod Point	1019.0	+4	E'N	5	bc	44	75	8	5	-	-	0	4-6	-	0	4	53	43	*	-	-	*
Malin Head	1020.9	0	E	6	c	46	65	8	9	-	-	7-8	7-8	5700	0	2	52	41	*	0.1	-	0.0
Aldergrove	1019.8	-2	ENE	3	c	41	65	7	8	-	-	9	9	3500	1	*	50	38	33	Tr	0.5	0.0
Birr Castle	1016.1	+4	NE	2	c	44	85	8	5	1	-	7-8	10	2500	1	*	55	43	43	Tr	1	0.9
Valentia Obsy.	1013.2	+4	ENE	4	c	49	85	7	5	-	-	9+	9+	1500	0	2	56	48	40	-	-	5.6
Roches Point	1013.0	+6	E'N	4	ir_0	48	85	8	6	2	-	7-8	9+	1500	1	3	58	48	*	-	0.6	*

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	ofdomom	omdd	cdom	53	46	45	Tr	Tr	0.0	*	*	6
Croydon	217	d	emfdd	cdfzm	52	45	45	0.5	Tr	0.0	*	*	5
Greenwich (Royal Observatory)	149	fdom	omd	ocm	53	45	43	1	-	0.0	91	78	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	54	47	46	1	-		91	82	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	52	45	42	1	1	0.0	86	81	*
Camden Square	110			*						*	*		*
Kensington	80	cpmc	cdrc	*	53	46	43	0.2	0.3		96	82	*
Hampstead Observatory	450	od	or	* o	55	*	42	0.6	0.3	0.0	*	91	*

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	7-10h. 23rd.	<0.1	21-24h. 23rd.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Preciptious.
4 Rough. 9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 25th October 1940.

No. 28827

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)	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)...	1010·7	-4	NE'N	5	zo	49	65	6	8	-	-	9+	9+	1500
	Croydon ...	1010·3	-2	NE	5	zo	47	75	5	5	-	-	10	10	1200
	S. Farnborough	1010·4	-4	ENE	4	zo	49	65	6	5	-	-	9+	9+	3300
	Boscombe Down	1010·2	-8	NE'N	4	c	49	65	7	7	-	-	9+	9+	3600
	Calshot (Soton.)	1009·5	-4	ENE	5	zo	51	65	6	5	-	-	9+	9+	2500
	Lympne ...	1009·8	-2	NE	4	zo	48	85	6	7	-	-	9+	9+	1500
	Manston ...	1009·7	-4	NE'E	5	zo	49	75	6	8	-	-	10	10	1200
2	Shoeburyness ...	1011·0	-6	NE	5	c/r	49	75	8	8	-	-	10	10	2500
	Felixstowe ...	1010·8	-6	NE	5	c	49	65	7	5	2	-	9+	9+	2000
	Gorleston ...	1012·6	-4	ENE	6	c	50	65	7	8	-	-	7-8	7-8	1500
	Mildenhall ...	1012·2	-6	NE	4	bc	50	65	8	8	-	-	4-6	4-6	2500
	Cranwell ...	1014·1	-4	ENE	5	bc	49	65	7	8	6	-	4-6	4-6	2900
3	Birmingham	1013·5	0	NE	3	c/pr	47	75	5	8	3	-	2-3	7-8	1500
	Upper Heyford	1012·2	-4	NE	4	bc	51	65	8	8	6	-	4-6	4-6	2000
4	Ross-on-Wye ...	1012·5	-6	NE	4	c	49	65	8	8	-	-	9	9	2500
5	Hartland Point	1010·6	+4	NE	5	c	49	75	8	9	6	-	7-8	9+	1500
	Bristol ...	1011·5	-6	ENE	3	c	50	65	7	8	-	-	9+	9+	3000
	Portland Bill ...	1009·1	-10	NE	4	c	50	85	7	5	-	-	10	10	2500
	Plymouth ...	1009·8	+4	ENE	4	c	51	65	7	7	7	-	9	9+	2200
	The Lizard ...	1009·3	+4	ENE	5	c	51	75	8	5	1	-	9	10	2600
	Scilly (St.Mary's)	1009·9	+2	NE	4	c	51	75	7	5	2	-	4-6	9+	1800
	Guernsey ...														
6	Pembroke ...	1012·9	0	NE	4	c	51	75	8	2	-	-	7-8	7-8	2500
7	Holyhead ...	1015·6	-6	ENE	6	cq	50	85	8	7	-	-	7-8	7-8	2500
	Chester (Sealand)	1015·4	-8	NE'E	4	zo	50	75	5	8	-	-	9	9	2500
8	Manchester ...	1015·6	-4	NE	4	zo	50	65	6	8	3	-	4-6	7-8	2500
10	Spurn Head ...	1013·8	-4	NE'N	5	cq	50	75	7	3	4	-	4-6	7-8	4000
	Catterick ...	1018·0	-4	NE	4	c/pr	47	85	7	8	6	-	4-6	7-8	2500
	Tynemouth ...	1019·9	-4	ENE	5	bc	48	65	8	2	3	-	4-6	4-6	3000
11	St. Abbs Head ...	1020·2	-8	E	4	pr	45	85	9	8	7	-	7-8	7-8	2500
	Leuchars ...	1021·4	-10	NNE	4	bc	47	75	8	8	6	-	4-6	4-6	1200
12	Renfrew (Abbots I.)	1021·4	-8	ENE	3	c/pr	46	75	7	8	3	-	9	9	1800
	Eskdalemuir ...	1019·4	-8	E	5	bc	46	55	8	7	-	-	2-3	2-3	2500
	Point of Ayre ...	1018·7	-2	E	5	bc	49	85	8	8	4	-	1	2-3	2500
13A	Tiree ...	1022·0	-6	NE	3	bc	48	75	9	7	3	-	4-6	4-6	3500
13B	Stornoway ...	1024·9	-10	ENE	2	c	49	65	9	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	*	-10	NE	3	bc	42	65	8	2	-	-	2-3	2-3	4000
	Aberdeen ...	1021·5	-20	N	3	cjp	48	75	8	8	3	-	7-8	7-8	2500
	Wick ...	1022·5	-16	NNE	3	c	47	75	8	8	6	1	7-8	9	2500
16	Lerwick...	1021·3	-18	NNE	4	c/pr	46	75	8	8	7	-	4-6	7-8	1500
17	Blacksod Point..	1017·9	-4	ENE	6	bc	50	65	8	2	5	-	1	4-6	2500
18	Malin Head ...	1020·8	-2	E	5	c	48	55	8	2	6	1	2-3	7-8	5700
	Aldergrove ...	1019·7	-2	E'N	4	pr	46	65	9	5	-	-	9+	9+	3500
19	Birr Castle ...	1016·1	-4	ENE	2	c	50	65	8	4	-	-	7-8	7-8	2500
20	Valentia Obsy. †	1013·5	0	ENE	4	c	50	75	8	5	-	-	10	10	4000
	Roches Point ...	1014·1	+2	E'N	4	c	51	75	8	8	-	-	9	9	1500

OBSERVATIONS at 18h. 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)	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)	1011·0	+8	NE	4	zo	47	65	6	5	3	-	4-6	9+	4000	1	*
Croydon	1010·4	+2	NE	4	zo	45	75	5	5	-	1	2-3	2-3	4000	1	*
S. Farnborough	1010·9	+10	NE'E	2	zo	47	65	6	5	-	9	4-6	9+	2200	1	*
Boscombe Down	1010·9	+6	NNE	2	zo	44	75	6	5	-	-	9	9	3500	0	*
Calshot (Soton.)	1009·9	+2	NE	4	zo	49	65	6	5	-	-	10	10	3500	1	3
Lympne	1009·8	+6	NE	3	zo	47	85	6	5	3	-	4-6	7-8	2500	1	§
Manston	1009·4	+6	NE	4	zo	48	75	6	4	3	-	4-6	4-6	1200	3	*
Shoeburyness	1010·6	-2	NE	5	zo	49	75	8	4	3	-	4-6	9+	4000	1	*
Felixstowe	1010·5	+2	NE'E	6	b	50	55	8	5	3	-	Tr	1	3000	1	4
Gorleston	1012·5	+4	NE'E	6	bc	50	65	7	2	-	-	4-6	4-6	2500	0	4
Mildenhall	1012·5	+6	NE	3	b	44	75	8	-	-	1	0	Tr	—	0	*
Cranwell	1014·4	+4	NE	3	bc	44	75	7	5	-	-	4-6	4-6	2500	1	*
Birmingham	1014·2	0	NE	3	zo	46	65	5	-	4	-	0	2-3	-	1	*
Upper Heyford	1012·6	+8	NE'N	3	bc	44	85	7	4	-	-	2-3	2-3	2500	1	*
Ross-on-Wye	1012·8	+4	NE	4	c	47	65	7	5	-	-	9+	9+	2500	1	*
Hartland Point	1010·8	+4	NE	5	c	50	75	7	8	6	-	4-6	7-8	2000	0	3
Bristol	1012·1	+6	NE	2	zo	47	75	5	5	6	-	4-6	7-8	4000	1	*
Portland Bill	1010·2	+14	NE	4	c	49	85	7	5	-	-	10	10	2500	1	4
Plymouth	1010·5	+6	ENE	3	zo	49	65	6	5	-	-	2-3	2-3	4000	0	2
The Lizard	1009·7	+6	NE	5	c	50	65	7	8	2	-	9	10	2000	0	3
Scilly (St.Mary's)	1010·3	+6	NE'E	2	c	50	65	7	5	2	-	7-8	10	1500	1	3
Guernsey																
Pembroke	1012·9	+6	NE	4	bc	47	75	7	5	-	-	4-6	4-6	2500	1	1
Holyhead	1015·9	+6	NE'E	2	c	49	85	8	8	-	-	9	9	3500	0	3
Chester (Sealand)	1015·7	+6	NE	4	zo	47	85	5	8	-	-	7-8	7-8	3200	1	*
Manchester	1015·8	+6	NE'N	3	m	46	75	4	5	3	-	4-6	4-6	2500	0	*
Spurn Head	1014·4	0	N'E	4	o	47	85	7	6	-	-	9	9	1500	1	4
Catterick	1017·4	+6	NNE	2	zo	42	85	6	8	-	-	7-8	7-8	2500	1	
Tynemouth	1018·7	-6	NE	4	c/pr	48	75	7	2	-	-	7-8	7-8	3200	1	3
St. Abbs Head	1018·6	-2	NNW	5	cq	46	75	8	8	2	-	7-8	10	2500	0	3
Leuchars	1020·0	-2	NNE	1	bc/pr	44	85	8	4	-	-	4-6	4-6	3500	1	*
Renfrew (Abbots I.)	1020·5	-2	—	0	b	40	85	8	4	-	-	Tr	Tr	3500	1	*
Eskdalemuir	1019·2	+2	NE	3	bc	39	85	8	8	-	-	4-6	4-6	1500	1	*
Point of Ayre	1018·2	+2	E	4	b	48	75	8	1	-	-	1	1	2500	0	3
Tiree	1021·0	0	NE	2	bc	47	75	9	5	-	-	4-6	4-6	2800	0	3
Stornoway	1023·5	-2	N	2	c/pr	42	92	7	5	7	-	7-8	9+	2500	1	1
Dalwhinnie	*	-6	WNW	1	bc	35	85	8	7	-	-	2-3	2-3	4000	0	*
Aberdeen	1020·3	-4	N'W	3	c/pr	44	85	8	8	-	-	7-8	7-8	2500	1	2
Wick	1021·2	-4	N	3	c	44	92	8	8	7	-	4-6	7-8	1500	0	2
Lerwick	1021·0	0	NE'N	4	c/pr	45	85	8	8	7	-	7-8	9	1500	1	*
Blacksod Point	1017·2	0	ENE	5	bc	46	75	8	2	-	-	1	1	2500	0	3
Malin Head	1019·7	-4	E	5	c	48	75	8	5	6	-	4-6	7-8	4000	0	3
Aldergrove	1019·3	+4	NE'N	2	c	41	75	9	8	-	-	7-8	7-8	4000	1	*
Birr Castle	1016·1	+2	NE	1	c	45	85	8	5	7	-	7-8	9	2500	1	*
Valentia Obsy. †	1014·0	+6	ENE	4	c	48	75	8	5	3	-	2-3	10	4000	0	3
Roches Point	1014·1	+2	E'N	3	c	48	75	8	5	7	-	4-6	7-8	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 24th (37)	Weather 13h.—18h. 24th (38)	Weather 18h. 24th to 1h. 25th (39)	Weather 1h.—7h. 25th (40)
London (Kew)	cmozo	czo	bcbw	bbcbmow
Croydon	cmozo	czo	zzbzowbc	idfo
S. Farnborough	czo	czo	bc	bmocbx
Boscombe Down	cmoc	cmobc	bcmobmo	b,bc,mow
Calshot (Soton.)	czo	czo	czobzo	bcprobcmo
Lympne	idocmo	cmo	ccbmobc	bcpro
Manston	cidocmo	cmo	bcmobc	bcidororo
Shoeburyness	cpromoc	cmoc	cb,cpr	bccpr bc
Felixstowe	cproq	ccq	bycpr	cpr
Gorleston	cq	cbcq	probc	bcpr
Mildenhall	bcw/cbc	bcbvb	bbwbx	bxcxbcx
Cranwell	cprcbc	bc	bcbmo	bbcmo
Birmingham	cbcpro	cbc	bcb	b, cpro
Upper Heyford	bccbc	cbccprobc	bcbc	cbprbcmo
Ross-on-Wye	c	bccpocc		cbbcb
Hartland Point	c	cbcq	cbcc	cbc
Bristol	bcmowc	cbccbcmo	bcbmow	bmo bcmx
Portland Bill	oc	c	cc	bcbc
Plymouth	bcc	cbczo	bczobzo	czo,b
The Lizard	c	c	bc	c
Scilly (St.Mary's)	c	c	bbc	c
Guernsey				
Pembroke	bcc	cbc	bcb	bbc
Holyhead	bcc q	cqbcc	bwbc	bcq
Chester (Sealand)	bmomcmo	cbcqprz	bmowb	cpro bc
Manchester	bczoc	czzproq	bmbcmpro	cmo bcmox
Spurn Head	cq	cq	cpr	c
Catterick	cmoproc	cprocmo	.	pro mobc
Tynemouth	cpbc	bccp	o	cp
St. Abbs Head	cpr	cq	ciro	iroc
Leuchars	pr	bbcprobc	bcprobwcw	cwbcc
Renfrew (Abbots I.)	bccpro	cbcb	bbcmowbx	bcbcx
Eskdalemuir	bcc probc	bcprobc	bccpr	bcprc
Point of Ayre	bc	bcb	bccbc	bcc
Tiree	bc	zc	bbc	bcb,
Stornoway	bc		cpro	cpro
Dalwhinnie	cbc	bc	•	ciro
Aberdeen	probc	bcpro	bcpro	bcpro
Wick	bc	c	cpro	cprc
Lerwick	cpro	cpro	cpro	bccpro
Blacksod Point	bc	bc	bc	bb
Malin Head	cyc	c	ccbcbcc	cbcvbc
Aldergrove	cbcprc	cprocbc	bcbcw	bwbcc
Birr Castle	bcc	c	cirbc	bbcc
Valentia Obsy. †	c	c	cocbcb	bbcc bc
Roches Point	c	c	cbcc	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/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.

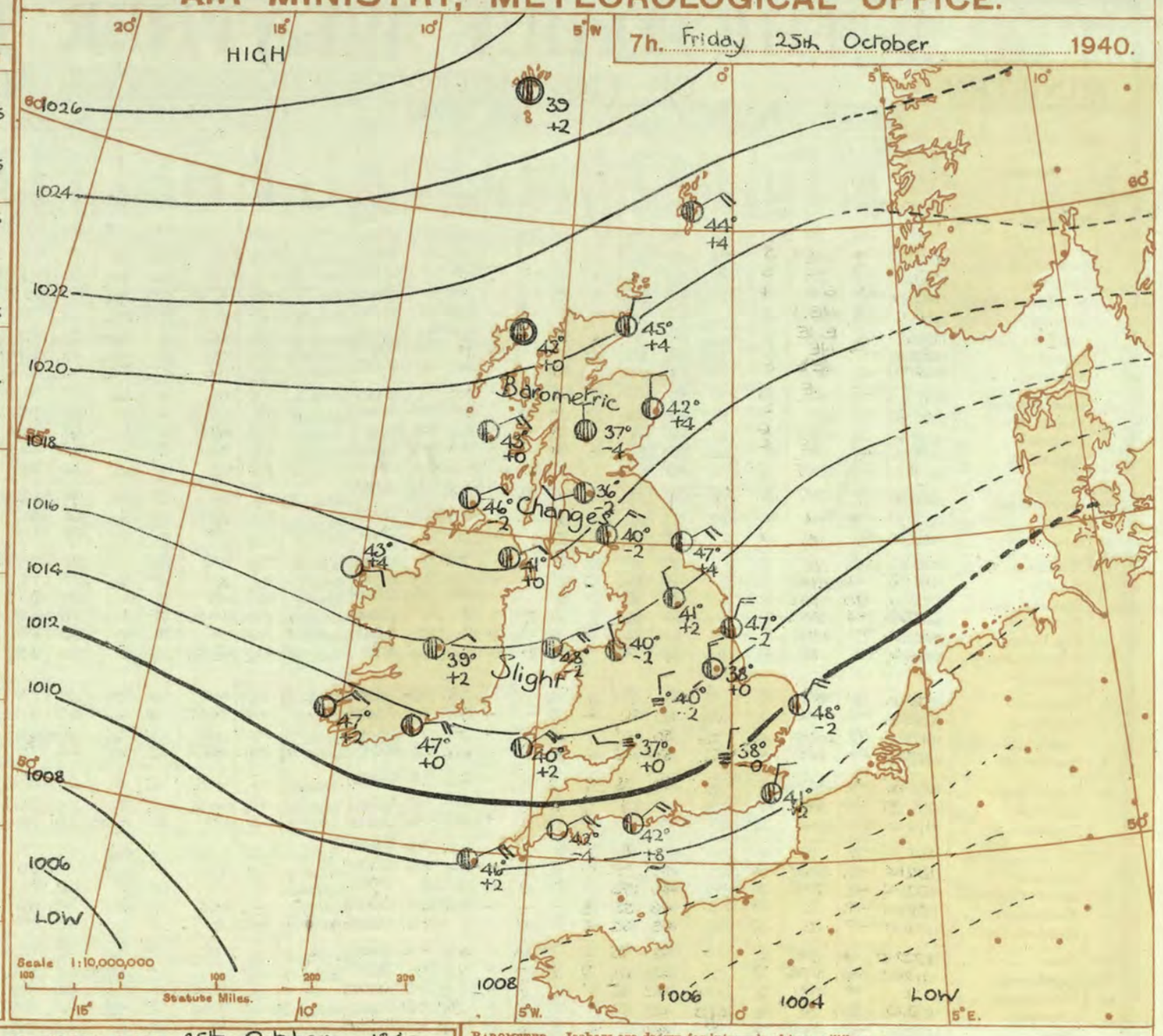
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 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	80	01964	32384	8-	10756	02486	8-	51856	03356	81	02844	04384
115	87	10854	04525	52	81844	01326	52	81844	04285	52	02844	08285
203	18	00962	02312										
206	14	01963	00013	5-	02855	31285	5-	02855	32155	57	02864	00025
210	83	01963	30384	6-	02855	32385	5-	22845	32465				
220	03	01930	10202	43	01884	06104				94	02845	00025
230	5-	01966	06216	5-	00962	04212	50	00961	08101	70	00952	10102
245	86	01954	02314	5-	02867	02387	7-	01965	02885	5-	25954	01185
260	96	25855	04385	4-	02865	02325	5-	61767	00027	8-	81844	32186
277	4-	01963	07514	84	01858	02303	50	00862	05302	5-	02965	02425
279				--	25754	06484							
285	2-	02846	06466	3-	82747	06487				2-	25636		
288	86	02745	04486	8-	81656	03426	5-	05658	02288	86	02745	04386	
273													
301	83	01863	06414	40	05664	06314	5-	05666	03116	50	05672	03212	
321	83	01854	38484	53	25654	06384	50	05564	31214	53	05652	31214	
299	8-	81846	06686	50	01753	06483	80	25743	02483	80	01744	02414	
292	86	81846	04387	46	01853	03284	80	01654	32284	5-	05664	32484	
310	--	01635	08525	--	61528	08568							
316	8-	*	04485	43	25764	04284	50	05654	02324	50	05553	30283	
333	50	01655	08405	5-	05668	07428	00	05690	06300	80	01854	00014	
334	--	03557	04127	--	51648	04228				--	03548	32128	
340	2-	05655	04515	23	81664	02427	00	05500	32180	50	47378	01283	
136	8-	25857	04487	40	01852	06382	83	25855	05285	86	81854	04384	
336	--	02852	04415	--	01852	04414				--	05642	04415	
350	23	02854	06515	03	02800	03412				50	05655	30265	
368													
379	20	02855	37425	53	05654	06425	50	08443	08303	--	46109	06349	
390	5-	02765	04425	57	01764	03314				04	05690	02212	
382	8-	02756	04426	40	05663	04313	00	05600	32300	5-	25655	32385	
438	5-	03748	02528							--	02848	02418	
430	57	08656	04528	5-	05648	04428	00	00790	02400	53	05663	02313	
409				50	05663	04213				54	00751	04422	

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 25th October 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate northeast wind; bright intervals; local showers of rain or hail; rather cold; frost locally at night.
5 S.W. England 6 South Wales ...	Light or moderate northeast wind; mainly fair; rather cold; night frost.
7 North Wales ... 8 N.W. England	Light or moderate northeast wind; bright periods; local showers; local morning fog; rather cold; local night frost.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1-4.
12 S.W. Scotland & Isle of Man.	As 7-8.
13 A. W. Scotld. / B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate northeast wind backing north; bright intervals; showers of rain or hail; rather cold; local night frost.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 7-8.

GENERAL INFERENCE.

An anticyclone is centred near Iceland while pressure is low on the Continent. There will be bright intervals in most districts particularly in the West. Showers of rain or hail will be mainly confined to the East and North. Temperature will be below average.

FURTHER OUTLOOK.

Little change.

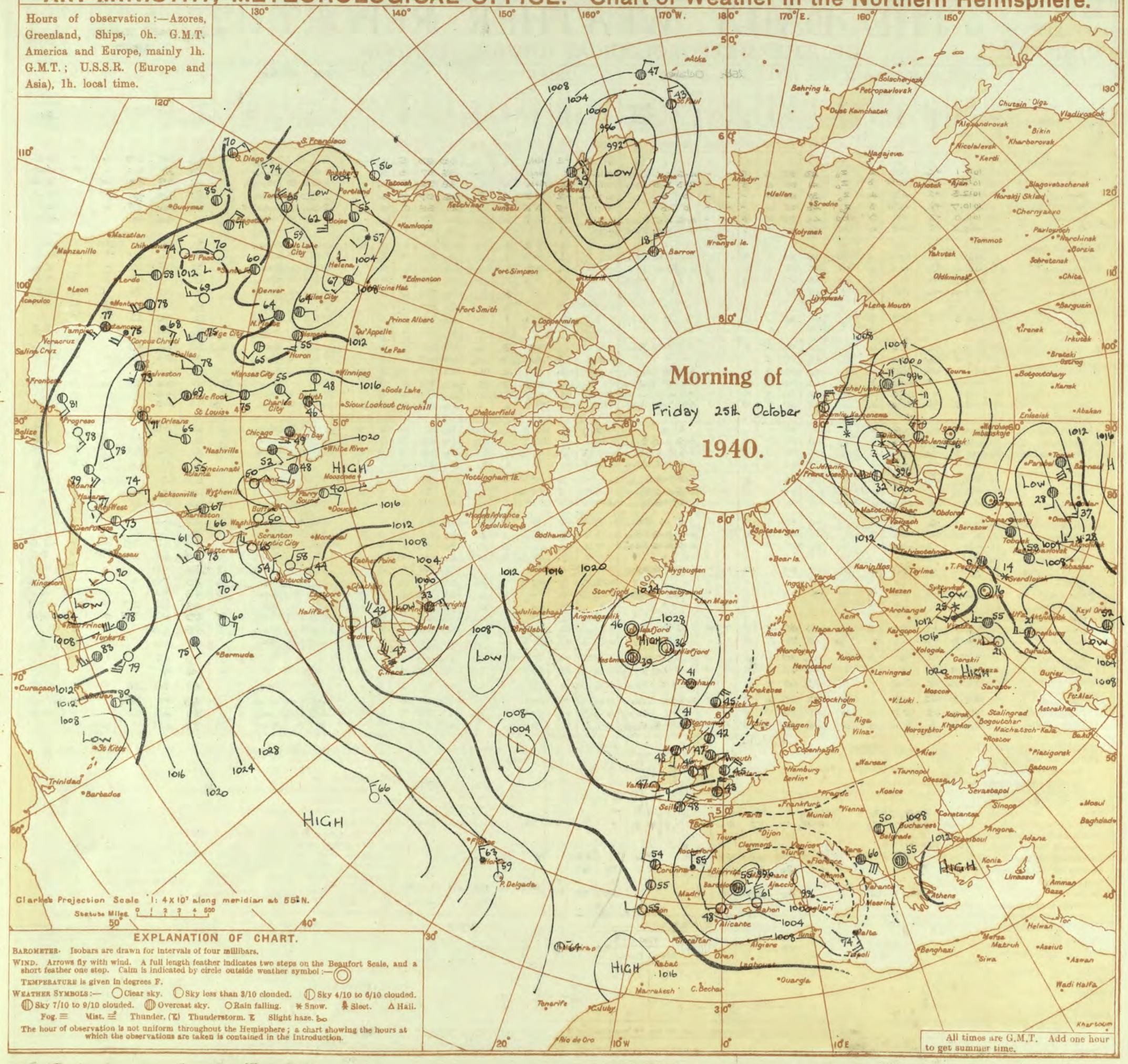
Forecasts issued at 10.30h.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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.



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 25th October, 1940.

No 28827.

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)	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	1011.1	+6	NNE	4	z_0	43	85	6	5	–	–	4-6	4-6	2000
	S. Farnborough	226	1012.0	+2	NE'N	3	z_0	41	85	6	5	–	–	2-3	2-3	2500
	Boscombe Down	417	1012.3	+2	N'E	4	z_0	37	85	6	–	–	–	0	0	–
	Calshot (Sthmtn.)	8	1010.7	+2	NE'N	3	z_0	43	75	6	–	–	–	0	0	–
	Lympne ...	346	1011.0	+2	NE	3	bc	44	75	7	5	–	–	4-6	4-6	2000
	Manston ...	154	1010.2	-2	NNE	4	bc	46	75	7	2	–	–	2-3	2-3	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1011.5	0	NE'N	2	c/pr	43	85	8	5	–	–	7-8	7-8	3500
	Gorleston ...	5	1012.4	-2	NE'N	4	bc	40	75	6	8	–	–	4-6	4-6	1500
	Mildenhall ...	19	1012.7	-6	N	2	bc	35	97	7	5	–	–	1	1	3500
	Cranwell ...	240	1014.6	-6	NE	3	z_0	38	97	6	–	7	–	0	Tr	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013.5	-2	NNE	3	z_0	41	85	6	5	–	–	9	9	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012.1	+4	NNE	6	c	46	85	8	8	–	–	7-8	7-8	1500
	Bristol ...	209	1013.4	+2	NE	3	z_0	36	92	5	–	–	–	0	0	–
	Portland Bill ...	32	1011.0	+6	NE	4	c	46	85	8	5	4	–	4-6	9	4000
	Plymouth ...	82	1011.4	-2	ENE	3	z_0	46	75	6	5	–	–	9+	9+	4500
	The Lizard ...	240	1010.7	0	NNE	4	bc	45	85	7	8	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	1010.8	-2	NE'E	4	c	48	65	7	5	4	–	4-6	7-8	1500
	Guernsey ...	175														
6	Pembroke ...	142	1014.3	+2	NE	5	b	43	85	7	–	–	–	0	0	–
7	Holyhead ...	26	1016.5	-4	E'N	3	bc	46	92	7	5	–	–	4-6	4-6	3000
	Chester (Sealand)	16	1016.3	-4	WNW	2	bc	36	92	5	5	–	–	2-3	2-3	3500
8	Manchester ...	70	1016.3	-6	N	2	bc/pr	39	92	4	5	3	–	2-3	4-6	2800
10	Spurn Head ...	29	1014.0	-4	NE'E	4	pr	45	85	7	8	–	–	7-8	7-8	4000
	Catterick ...	175	1016.6	-8	N'W	2	c/pr	42	87	6	8	–	–	4-6	4-6	2500
	Tynemouth ...	108	1018.1	-4	ENE	4	c/pr	47	75	7	2	–	–	7-8	7-8	3000
11	St. Abbs Head	280	1017.9	-6	NNW	4	ir_0	44	92	8	5	2	–	7-8	10	2500
	Leuchars ...	36	1019.1	-6	NNW	2	c	43	85	7	4	6	–	4-6	7-8	3500
12	Renfrew (Abbots I.)	19	1020.4	-2	WSW	1	bc	36	85	7	5	–	–	4-6	4-6	3500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1018.2	-2	ENE	4	bc	47	85	8	5	–	–	4-6	4-6	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1022.7	-6	NW	2	c	41	92	7	5	7	–	7-8	7-8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1020.7	-2	NW	3	pr	44	85	7	5	7	8	7-8	9+	800
16	Lerwick ...	156	1020.9	-2	NE	5	c/pr	45	75	8	8	7	–	4-6	7-8	1500
17	Blacksod Point	18	1017.1	-2	E	5	bc	46	85	8	4	–	–	4-6	4-6	2500
18	Malin Head ...	84	1019.8	0	S	1	c	48	65	8	2	6	–	2-3	7-8	5700
	Aldergrove ...	268	1019.6	-2	ENE	1	b	39	85	8	5	–	–	1	1	3500
19	Birr Castle ...	173	1016.5	+2	NE	1	bc	42	92	8	5	–	–	4-6	10	2500
20	Valentia Obsy.	30	1013.9	+2	E'N	3	b	47	75	7	5	–	–	1	1	4000
	Roches Point	22	1014.7	0	E'N	3	c	45	85	8	5	–	–	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 25th 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)	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)	1011.6	-2	NNE	3	z_0	39	85	5	5	–	–	Tr	Tr	2500	1	*
	Croydon ...	1011.4	0	NNE	1	bcf+	38	97	3	5	–	–	2-3	2-3	2500	1	*
	S. Farnborough	1011.8	-4	NNW	2	z_0	38	92	6	5	–	1	2-3	2-3	3500	1	*
	Boscombe Down	1012.4	-2	N'E	3	b	36	97	7	5	–	–	2-3	2-3	3000	1	*
	Calshot (Sthmtn.)	1011.1	-2	N'E	3	z_0	41	85	6	5	4	–	2-3	4-6	4000	0	2
	Lympne ...	1011.3	+2	NNE	2	c/pr	41	97	7	8	–	1	7-8	7-8	1400	1	3
	Manston ...	1010.1	+2	ENE	2	c/r	43	97	7	8	–	–	9+	9+	2000		*
2	Shoeburyness ...	1011.3	-4	N'E	3	bc	39	97	8	5	3	–	4-6	4-6	2500	1	*
	Felixstowe ...	1010.9	-2	NNE	4	pr	41	85	7	2	–	–	7-8	7-8	3000	1	2
	Gorleston ...	1011.5	-2	NE	4	bc/pr	48	75	6	8	–	–	4-6	4-6	1500	1	3
	Mildenhall ...	1011.9	-4	N'E	2	bc	35	97	7	8	3	–	2-3	2-3	3500	1	*
	Cranwell ...	1014.2	0	N	3	z_0	38	92	6	8	–	–	4-6	4-6	2500	1	*
3	Birmingham ...	1013.9	-2	N	2	m	40	97	4	5	–	–	9+	9+	1500	1	*
	Upper Heyford	1013.1	-2	NNW	2	m	36	92	4	5	–	–	2-3	2-3	2500	1	*
4	Ross-on-Wye	1014.0	0	W	1	m	37	92	4	5	–	–	9+	9+	800	1	*
5	Hartland Point	1012.0	0	NE	5	bc	45	85	8	8	4	–	4-6	4-6	1500	0	3
	Bristol ...	1013.4	+2	NNE	3	z_0	35	97	5	5	–	–	7-8	7-8	2800	1	*
	Portland Bill ...	1011.5	+8	NE	4	bc	42	92	8	5	–	–	4-6	4-6	4000	1	4
	Plymouth ...	1011.7	+4	NE'E	3	b	42	75	8	5	–	–	Tr	Tr	5000	0	2
	The Lizard ...	1009.9	-4	NNE	5	c	46	75	8	8	–	–	7-8	7-8	2000	0	4
	Scilly (St. Mary's)	1010.5	+2	NE'E	4	c	46	85	8	5	3	–	4-6	7-8	1500	1	3
	Guernsey ...																
6	Pembroke ...	1014.3	+2	NE'E	4	bc	40	92	8	2	3	–	2-3	2-3	2500	1	2
7	Holyhead ...	1015.1	-2	NE'E	4	cq	48	85	9	8	–	–	7-8	7-8	3000	0	2
	Chester (Sealand)	1015.6	-2	N'W	2	bc	40	92	5	5	–	–	2-3	2-3	5000	1	*
8	Manchester ...	1015.5	0	N	2	z_0	34	97	5	5	–	–	1	1	3500	1	*
10	Spurn Head ...	1012.7	-2	NE'N	4	c	47	75	7	8	–	–	9	9	2500	1	3
	Catterick ...	1015.9	+2	NNW	1	bc/pr	41	92	7	8	3	–	4-6	4-6	2500	1	*
	Tynemouth ...	1017.6	+4	ENE	4	c/pr	47	75	8	8	–	–	7-8	7-8	3000	1	3
11	St. Abbs Head	1017.3	+2	N	3	c/r	45	85	8	5	7	–	4-6	7-8	2500	1	3
	Leuchars ...	1018.8	+2	NNW	2	c	42	85	8	5	7	–	7-8	9+	3500	1	*
12	Renfrew (Abbots I.)	1019.4	-2	WSW	2	c	36	92	8	5	–	–	7-8	7-8	4000	1	*
	Eskdalemuir ...	1017.7	-2	NE'N	3	c/pr	40	85	8	5	–	–	9	9	1500	1	*
	Point of Ayre ...	1017.1	-4	ENE	4	c	46	85	8	8	–	–	7-8	7-8	1500	0	3
13A	Tiree ...	1009.3	0	NE'E	3	bc	43	85	9	2	–	–	2-3	2-3	2800	0	3
13B	Stornoway ...	1022.3	0	–	0	c	42	85	8	5	7	–	7-8	9	1500	1	0
15	Dalwhinnie ...	*	-4	N	1	c	37	97	6	5	–	–	10	10	800	1	*
	Aberdeen ...	1019.0	+4	N	2	bcjp	42	85	8	8	–	–	2-3	2-3	2500	1	2
	Wick ...	1020.5	+4	NNE	2	c/pr	45	85	8	8	7	8	4-6	7-8	1500	1	2
16	Lerwick ...	1021.2	+4	NE'E	4	c/pr	44	75	8	8	7	–	4-6	7-8	1500	1	*
17	Blacksod Point	1017.1	+4	E	2	b	43	85	6	–	–	–	0	0	–	0	3
18	Malin Head ...	1018.6	-2	ENE	1	bc	46	65	8	–	5	–	0	2-3	–	0	0
	Aldergrove ...	1018.7	0	ENE	1	c	41	85	7	5	–	–	9+	9+	2000	1	*
19	Birr Castle ...	1016.4	+2	ENE	1	c	39	92	8	5	3	–	4-6	7-8	2500	1	*
20	Valentia Obsy.	1013.3	+2	NE'E	3	bc	47	75	8	5	–	–	4-6	4-6	4000	0	2
	Roches Point	1013.7	0	E	4	c	47	85	8	8	–	–	9	9	1500	1	3

PAST 24 HOURS.

District	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 24th Hrs. (36)
1	London (Kew)	50	38	29	–	–	0.0
	Croydon ...	48	37	34	–	–	0.0
	S. Farnborough	46	35	29	–	–	0.0
	Boscombe Down	49	35	31	–	–	0.4
	Calshot (Sthmtn.)	51	40	37	–	–	0.1
	Lympne ...		40	30		Tr	0.3
	Manston ...						
2	Shoeburyness ...	50	38	31	0.1	1	0.[illegible]
	Felixstowe ...	51	40	37	Tr	1	0.0
	Gorleston ...	51	45	39	–	1	5.8
	Mildenhall ...	52	31	23	Tr	Tr	4.5
	Cranwell ...	51	37	30	2	0.6	5.2
3	Birmingham ...	51	36	27	Tr	Tr	1.7
	Upper Heyford	52	35	32	Tr	Tr	*
4	Ross-on-Wye	51	36	27	Tr	–	2.2
5	Hartland Point	53	44	42	–	–	3.3
	Bristol ...	51	35	25	–	–	2.0
	Portland Bill ...	52	41	*	–	–	*
	Plymouth ...	51	40	35	–	–	2.0
	The Lizard ...	52	44	*	–	–	0.1
	Scilly (St. Mary's)	52	46	*	–	–	1.1
	Guernsey ...						
6	Pembroke ...	53	39	*		–	5.9
7	Holyhead ...	51	44	40	–	–	4.5
	Chester (Sealand)	51	33	30	Tr	Tr	2.9
8	Manchester ...	51	31	24	Tr	Tr	1.4
10	Spurn Head ...	53	43	*	0.1	2	3.7
	Catterick ...	46	40	36	1	1	3.3
	Tynemouth ...	48	46	41	1	2	*
11	St. Abbs Head	47	44	*	0.2	2	*
	Leuchars ...	50	40	32	1	Tr	2.9
12	Renfrew (Abbots I.)	48	32	29	0.1	–	2.6
	Eskdalemuir ...	48	37	33	Tr	1	5.7
	Point of Ayre ...	50	45	*		–	8.1
13A	Tiree ...	49	39	*	–	–	3.5
13B	Stornoway ...	48	40	*	0.2	0.2	8.3
15	Dalwhinnie ...	43	32	27	–	1	7.1
	Aberdeen ...	49	39	35	0.1	0.4	3.8
	Wick ...	48	43	*	–	2	*
16	Lerwick ...	47	43	*	0.1	0.2	4.1
17	Blacksod Point	50	42	*	–	–	*
18	Malin Head ...	48	41	*	–	–	1.0
	Aldergrove ...	47	36	28	0.1	–	1.5
19	Birr Castle ...	53	35	32	–	0.1	4.6
20	Valentia Obsy.	51	46	40	–	–	0.0
	Roches Point	53	45	*	0.6	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.	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.
Kew ...	18	cm_0z_0	cz_0	bcbwm$_0$	50	38	29	–	–	0.0	*	*	6
Croydon ...	217	cm_0z_0	cz_0	$z_0$wbcidp$_0$	48	37	34	–	–	0.0	*	*	4
Greenwich (Royal Observatory) ...	149												
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	51	40	37	–		0.0	71	85	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	50	38	30	–	–	0.0	78	83	*
Camden Square ...	110			*							*		*
Kensington ...	80	cbc	bc	*	50	39	28	–	–		68	79	*
Hampstead Observatory ...	450										*		*

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.
9.1	8-15h 24h	0.1	19-24h 24h

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris ...										
Brussels ...										
Berlin ...										
Zürich ...										
Rome ...										

Past 24 Hours.

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

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.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 26th October 1940.

No. 28828

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)	1010·5	−12	NE	4	z_0	50	65	6	8	6	-	7-8	9	2500
	Croydon	1010·2	−14	NE	3	z_0	49	65	6	2	3	-	9+	9+	2200
	S. Farnborough	1010·4	−14	NE'E	3	bc	52	55	7	8	-	-	2-3	2-3	3000
	Boscombe Down	1010·7	−16	NNE	3	c	49	65	8	2	-	-	7-8	7-8	3500
	Calshot (Soton.)	1010·3	−14	NE	3	c	51	65	7	8	6	-	7-8	7-8	3500
	Lympne	1009·8	−10	NNE	2	c	49	75	8	8	-	-	9+	9+	1500
	Manston	1008·9	−10	NE'E	2	bc	50	75	8	8	6	-	2-3	4-6	1400
2	Shoeburyness	1010·5	−12	NE'E	3	c	49	85	8	8	7	-	9	9+	2500
	Felixstowe	1009·9	−10	NE'N	4	pr	51	65	7	2	6	-	4-6	7-8	2500
	Gorleston	1011·1	−4	NE'N	4	pr	50	65	7	8	-	-	7-8	7-8	1700
	Mildenhall	1011·1	−6	NE'N	4	c	50	55	8	8	7	-	4-6	7-8	4500
	Cranwell	1013·5	−4	NE	3	e/pr	47	75	8	8	-	-	9	9	1800
3	Birmingham	1012·8	0	NE	4	z_0	47	65	6	8	-	-	7-8	7-8	1500
	Upper Heyford	1012·1	−10	NE	4	c	48	65	8	8	3	-	4-6	7-8	2500
4	Ross-on-Wye	1012·6	−12	NNE	3	z_0	48	75	6	8	-	-	9+	9+	2500
5	Hartland Point	1011·1	−12	NE	5	c	48	75	8	3	-	-	9	9	1800
	Bristol	1012·2	−14	NNE	3	z_0	47	75	6	7	3	-	4-6	9	2200
	Portland Bill	1010·7	−10	NE	4	c	51	75	8	5	7	-	4-6	7-8	4000
	Plymouth	1011·0	−6	ENE	6	bc	48	65	8	1	-	-	4-6	4-6	3000
	The Lizard	1009·4	−10	ENE	5	bc	52	75	8	2	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1010·0	−10	ENE	4	bc	52	65	8	8	6	-	4-6	4-6	1800
	Guernsey														
6	Pembroke	1013·1	−8	ENE	4	bc	49	75	8	2	-	-	4-6	4-6	2500
7	Holyhead	1015·0	−6	ENE	4	c	49	85	8	8	-	-	9	9	3200
	Chester (Sealand)	1014·7	−10	N	2	z_0	48	75	5	5	-	-	9	9	4000
8	Manchester	1014·5	−6	NE	3	c/pr	48	65	6	8	3	-	7-8	9	3500
10	Spurn Head	1013·0	0	NE'N	5	pr	48	75	7	3	-	-	7-8	7-8	4000
	Catterick	1016·3	−2	E'N	3	c	47	65	8	8	6	-	7-8	9+	2500
	Tynemouth	1017·7	−2	E	4	bc	50	65	8	8	3	-	4-6	4-6	3200
11	St. Abbs Head	1017·8	−4	NE	2	c	46	85	9	5	5	1	4-6	9	2500
	Leuchars	1018·5	−6	NNE	3	e	47	75	9	8	6	-	9	9+	2800
12	Renfrew (Abbots I.)	1018·5	−10	ENE	2	c	48	65	9	7	3	-	7-8	7-8	3500
	Eskdalemuir	1017·6	−2	ENE	3	pr	43	85	8	8	-	-	9+	9+	1500
	Point of Ayre	1016·9	−6	ENE	4	bc	50	85	8	2	4	-	4-6	4-6	2500
13A	Tiree	1018·8	−4	NE'E	2	bc	48	75	9	1	-	-	2-3	2-3	3500
13B	Stornoway	1021·0	−10	ENE	2	bc	47	65	9	2	6	-	1	2-3	2500
15	Dalwhinnie	1023·1	−8	NE	2	bc	45	75	8	2	4	-	4-6	4-6	1500
	Aberdeen	1018·9	−6	N'E	2	ejp	47	75	8	8	-	-	7-8	7-8	1500
	Wick	1020·4	−6	NE	3	pr	47	85	8	8	4	-	7-8	9	1800
16	Lerwick	1021·0	−2	NE	4	c	47	65	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1016·7	−8	ENE	5	bc	49	75	8	2	-	-	2-3	2-3	1500
18	Malin Head	1018·3	−6	E'S	3	bc	48	55	8	1	-	5	2-3	4-6	5700
	Aldergrove	1017·5	−10	NE'N	3	c	48	65	8	2	-	-	7-8	7-8	2000
19	Birr Castle	1015·3	−12	ENE	2	c	52	65	8	4	-	-	7-8	7-8	2500
20	Valentia Obsy. †	1012·4	−12	E	3	bc	51	65	8	7	-	-	4-6	4-6	4000
	Roches Point	1013·2	−6	E'N	4	pr	47	85	7	3	-	-	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 25th 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)
London (Kew)	1010·8	+10	NNE	3	z_0	47	65	5	5	3	-	4-6	4-6	2500
Croydon	1009·9	+2	NE	3	m	46	75	4	4	6	-	2-3	7-8	3500
S. Farnborough	1010·8	+8	NE	2	z_0	45	75	6	5	3	-	2-3	4-6	4000
Boscombe Down	1010·9	+10	NNE	2	c	45	75	7	5	-	-	9	9	3000
Calshot (Soton.)	1010·1	+6	NE'N	3	z_0	49	65	6	5	-	-	10	10	4000
Lympne	1010·9	+8	E	1	c	41	97	8	8	6	-	4-6	7-8	3500
Manston	1010·2	+10	ENE	4	c	45	85	7	8	3	-	4-6	7-8	1800
Shoeburyness	1010·8	+6	NE	3	c/pr	45	92	8	8	7	-	7-8	9	2500
Felixstowe	1010·9	+10	E	5	bc	47	65	8	4	3	-	4-6	4-6	2500
Gorleston	1012·3	+12	E	4	bc	48	65	7	5	-	-	2-3	2-3	1500
Mildenhall	1011·9	+14	NE'E	2	bc	45	85	8	4	-	-	4-6	4-6	3000
Cranwell	1013·1	+4	NE	3	-	44	85	7	8	-	-	7-8	7-8	1500
Birmingham	1013·1	0	NE	2	rf	44	85	3	6	-	-	10	10	800
Upper Heyford	1012·1	+10	NNE	4	bc	42	75	8	4	6	-	1	4-6	4500
Ross-on-Wye	1012·4	0	NE	3	c	46	65	6	5	-	-	9+	9+	2500
Hartland Point	1010·5	0	NE	4	c	48	75	7	8	-	-	9+	9+	1500
Bristol	1011·5	+2	NE	2	z_0	46	75	5	5	-	-	9+	9+	4500
Portland Bill	1009·7	−4	NNE	4	c	49	85	8	5	-	-	10	10	2500
Plymouth	1010·3	0	ENE	2	bc	46	75	6	4	-	-	2-3	2-3	3500
The Lizard	1009·1	−2	ENE	5	c	49	75	8	8	6	-	7-8	7-8	2000
Scilly (St. Mary's)	1009·1	−2	ENE	4	c	49	65	8	8	6	-	7-8	7-8	1800
Guernsey														
Pembroke	1012·3	−2	NE	4	c	46	75	7	5	-	-	4-6	7-8	3000
Holyhead	1014·3	+2	ENE	4	c	49	85	7	5	-	-	9+	9+	4000
Chester (Sealand)	1014·6	+2	NE'N	2	z_0	46	65	5	5	-	-	9+	9+	4900
Manchester	1014·7	+6	NE'N	3	bcf+	43	75	3	5	3	-	2-3	4-6	4500
Spurn Head	1012·8	+4	E'N	5	cq	49	65	7	3	-	-	7-8	7-8	4000
Catterick	1016·1	+2	NNE	1	z_0	41	85	6	8	-	-	2-3	2-3	4000
Tynemouth	1017·7	+2	E	5	bc/pr	47	65	8	2	-	-	4-6	4-6	3600
St. Abbs Head	1017·6	+2	-	0	c	45	75	9	8	2	-	7-8	9+	2500
Leuchars	1018·5	+6	NNE	2	c/pr	*	*	8	5	7	-	7-8	7-8	2200
Renfrew (Abbots I.)	1018·7	+6	E'N	1	z_0	43	75	5	5	3	-	2-3	4-6	2500
Eskdalemuir	1017·7	+4	NE'E	3	c	41	85	8	5	-	-	9	9	1500
Point of Ayre	1016·2	+2	E	4	c	50	65	8	5	-	-	9+	9+	4000
Tiree	1018·5	0	NE	3	c	47	85	9	5	-	-	7-8	7-8	2500
Stornoway	1021·0	0	NE	2	c	44	85	8	8	6	-	4-6	7-8	1500
Dalwhinnie	*	+4	N	1	c	37	85	7	4	-	-	9	9	1500
Aberdeen	1019·0	+4	N	2	pr	43	75	8	8	-	-	7-8	7-8	2500
Wick	1019·8	+2	NE	4	c	47	65	8	8	7	-	4-6	9	1500
Lerwick	1020·7	−2	NNW	3	c	44	85	7	5	7	-	4-6	7-8	1500
Blacksod Point	1015·9	+4	ENE	5	bc	47	75	8	2	-	-	4-6	4-6	1500
Malin Head	1017·8	+6	E	3	c	49	65	8	9	-	-	7-8	7-8	5700
Aldergrove	1017·2	+2	NE'N	1	z_0	44	85	6	5	-	-	9	9	3500
Birr Castle	1014·7	+2	ENE	1	c/pr	45	85	8	8	7	-	7-8	9	1500
Valentia Obsy. †	1012·3	+6	-	0	bc	46	75	8	5	-	-	2-3	2-3	4000
Roches Point	1012·0	−2	E	4	c/pr	48	65	9	8	-	-	9	9	1500

PAST 24 HOURS.

Stations	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 25th (37)	Weather 13h.–18h. 25th (38)	Weather 18h. 25th to 1h. 26th (39)	Weather 1h.–7h. 26th (40)
London (Kew)	1	*	bm_0bccz_0	$cbcz_0$	$bcbbcem_0c$	m_0wcm_0
Croydon	1	*	bfmc	cz_0m		cir_0m_0
S. Farnborough	0	*	bx cbcy	bcyc bc	$bccpr_0bm_0c$	id_0m_0c
Boscombe Down	0	*	bc	bcc	cid_0bm_0	bcm_0cm_0
Calshot (Soton.)	1	1	bcm_0b,c	ccz_0	cz_0id_0qbw	bm_0wcm_0
Lympne	1	§4	$bccpr_0c$	cpr_0c	cpr_0bcy	bcyc
Manston		*	cpr_0cbc	cpr_0	$cbcpr_0c$	bc
Shoeburyness	1	*	bccprc	cpr_0	cbc, cpr	cprcbc, cprc
Felixstowe	1	3	$cprpr_0$	cpr_0qprc	bccprPRq	cprcy
Gorleston	1	3	$bccpr_0$	cpr_0bc	bccprq	cpr_0r_0q
Mildenhall	0	*	bcxcbq	$bcycpr_0u$	$bccpr_0c,b$	$bbxbcwpr_0$
Cranwell	1	*	cb,r_0qpr_0	cpr_0c	pr_0,bcm_0	$cm_0pr_0m_0$
Birmingham	1	*	cbccz	cm	r_0fmcbc	bccm
Upper Heyford	1	*	cpr_0bc	cpr_0cbc	$bcbbm_0$	$bcbm_0c$
Ross-on-Wye	1	*	cz_0	cz_0	cz_0bc	$bccbm_0$
Hartland Point	0	3	bcc	c	cbc	bc
Bristol	1	*	bcm_0xcr_0	cm_0c	$cbbbm_0w$	$b,cbcm_0$
Portland Bill	0	3	bcc	c	cc	
Plymouth	0	2	bbc	$bccbcm_0$	bcm_0,b	
The Lizard	0	3	bc	bcc	bccbc	cbc
Scilly (St. Mary's)	1	3	cbc	bcc	cbcb	bbc
Guernsey						
Pembroke	0	1	bc	bcc	c	bcc
Holyhead	0	2	bcqbc	c	bm_0bc	bcm_0c
Chester (Sealand)	1	*	$bccz_0$	cz_0	cbz_0m_0c	bcm_0wc
Manchester	0	*	pr	$cbcz_0qy$	cz_0pr_0	cz_0
Spurn Head	1	4	cpr	pr_0cq	cbcc	c
Catterick	1		bcc	cbcjp	bm_0bc	cpr_0cm_0
Tynemouth	1	3	cbc	bcp_0	bc	bcc
St. Abbs Head	1	2	cpr	ir_0c	cir_0	cbc
Leuchars		*	cbcc	cpr_0c	$cbcm_0ir_0$	mjr_0c
Renfrew (Abbots I.)	1	*	exc	cbc		$bccm_0w$
Eskdalemuir	1	*	pr_0pr	cpr	$r_0r_0cm_0$	cm_0
Point of Ayre	0	3	cbc	bc	bcbb	bbc
Tiree	0	3	bc	bcc	c	cbc
Stornoway	1	1	pr	c	cpr	c
Dalwhinnie	0	*	cbc	prbcc		cid_0c
Aberdeen	1	2	cpr_0	cpr_0	pr_0bc	bcb
Wick	1	2	cpr_0c	cpr_0c	r_0prc	cpr_0c
Lerwick	1	*	cpr	cpr_0c	c	cw
Blacksod Point	0	3	bc	bc	=	c
Malin Head	0	3	bccvybc	c	c	cvc
Aldergrove	1	*	cbcc	cm_0c	cm_0c	cbbcx
Birr Castle	1	*	c	cpr_0	c	c
Valentia Obsy. †	0	1	bcccbc	bcbbc	bcbbcc	cbc
Roches Point	1	3	cpr_0	cpr_0c	p_0ir_0	cpr_0c

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.

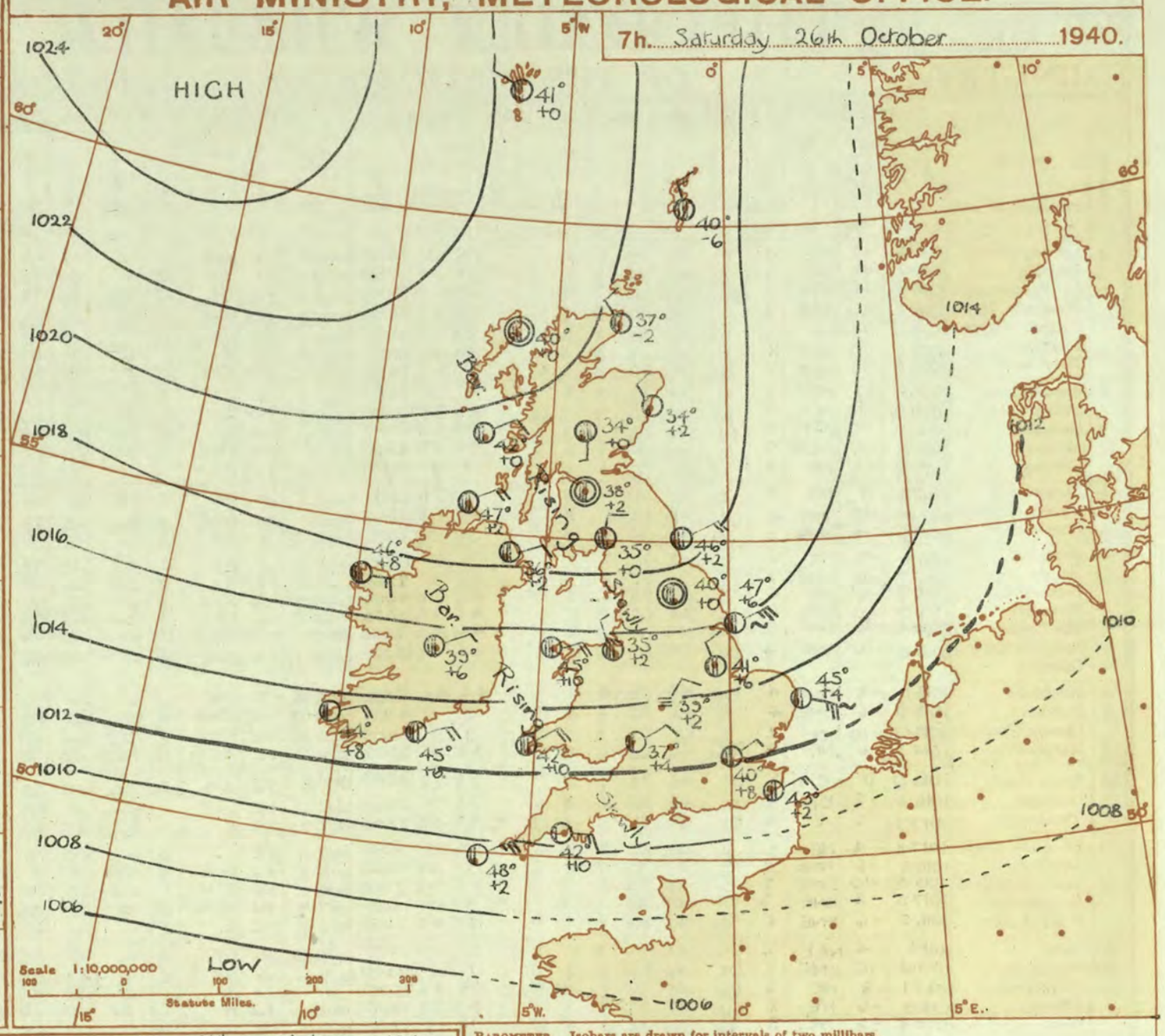
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 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	8-	25355	04385	8-	02855	00025	80	01753	26113	5-	02857	26287
115	71	01944	12385	87	01844	08415	87	01843	08184	51	81844	32184
203	87	01944	04325									
206	83	02865	04185	87	25855	08287	5-	02855	00085	5-	02856	00026
210	86	25354	04184	46	01853	04284	8-	81846	00086	8-	25044	00085
220	23	01964	11304							53	01063	00003
230	70	00352	04302	7-	02065	06115	50	01853	00013	50	00861	06111
245	83	02945	32385				5-	25857	01287	83	01063	28384
260	8-	02855	02185	8-	02756	06286	5-	05658	00088	52	05655	00068
277	8-	02857	04327				50	01764	04324	50	00062	32202
279				5-	05658	04328				50	05662	04102
285	26	02845	10316	23	02844	06327				6-	61748	06368
288	86	25855	05486	80	17654	04324	8-	81656	04286	8-	41765	04285
273	18	02763	06205							50	01662	06102
301	80	02766	08416	46	05563	04283	50	05664	03214	53	05664	05114
321	23	01853	36515	40	22655	03315	50	05665	04215	5-	05664	32114
299	8-	02855	04515				80	01743	04483	8-	25847	08387
292	76	01964	04314	40	02845	02385	5-	25847	04117	5-	02856	00026
310	--	02636	08426	--	01535	08415				--	02528	04428
316	86	02754	13748	46	05662	32212	8-	81657	62287	86	01654	32285
333	83	02864	08315	53	05665	06316	50	05663	06213	8-	02865	06325
334	--	05644	04127							--	01553	04104
340	23	05565	02327	5-	05676	04326	5-	05667	02217	5-	05666	02316
136	86	25853	11348	06	01700	05282	8-	01854	06284	86	10844	03185
336	--	02852	04416	--	05642	04416				--	02752	04515
350	83	02844	32486				5-	02756	02316	5-	02756	02326
368												
379	2-	02747	03327	50	05662	06312	50	05654	04314	50	45345	04345
390	8-	02756	03516	83	02755	06487	5-	05654	04226	5-	02755	04127
382	86	02855	04315	46	01764	02314	50	05665	02325	5-	05667	02327
438	87	02754	02316							8-	25746	04586
430	8-	05667	02327	47	25566	04288	50	05663	03313	50	05666	02316
409	20	00853	04503	54	05763	05313	50	05662	04317	54	00861	05302

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 26th October 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate northeast to north wind; mainly cloudy; some bright intervals; local showers; rather cold.
5 S.W. England 6 South Wales ...	Light or moderate northeast wind, fresh locally on coasts; cloudy; bright intervals; rather cold; local night frost.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1-4.
12 S.W. Scotland & Isle of Man.	Light or moderate northeast to north wind; cloudy; bright intervals; rather cold; local night frost.
13 A. W. Scotld. / B.N.W.Scotland.	Light or moderate northwest to north wind; mainly cloudy; showers; rather cold.
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	As 1-4.

GENERAL INFERENCE.

An anticyclone centred South of Iceland is decreasing in intensity and a feeble trough of low pressure near Shetland is moving south. Rather cold and mainly cloudy weather will continue with local showers in the North and East. Bright intervals will occur locally especially in the West.

FURTHER OUTLOOK.

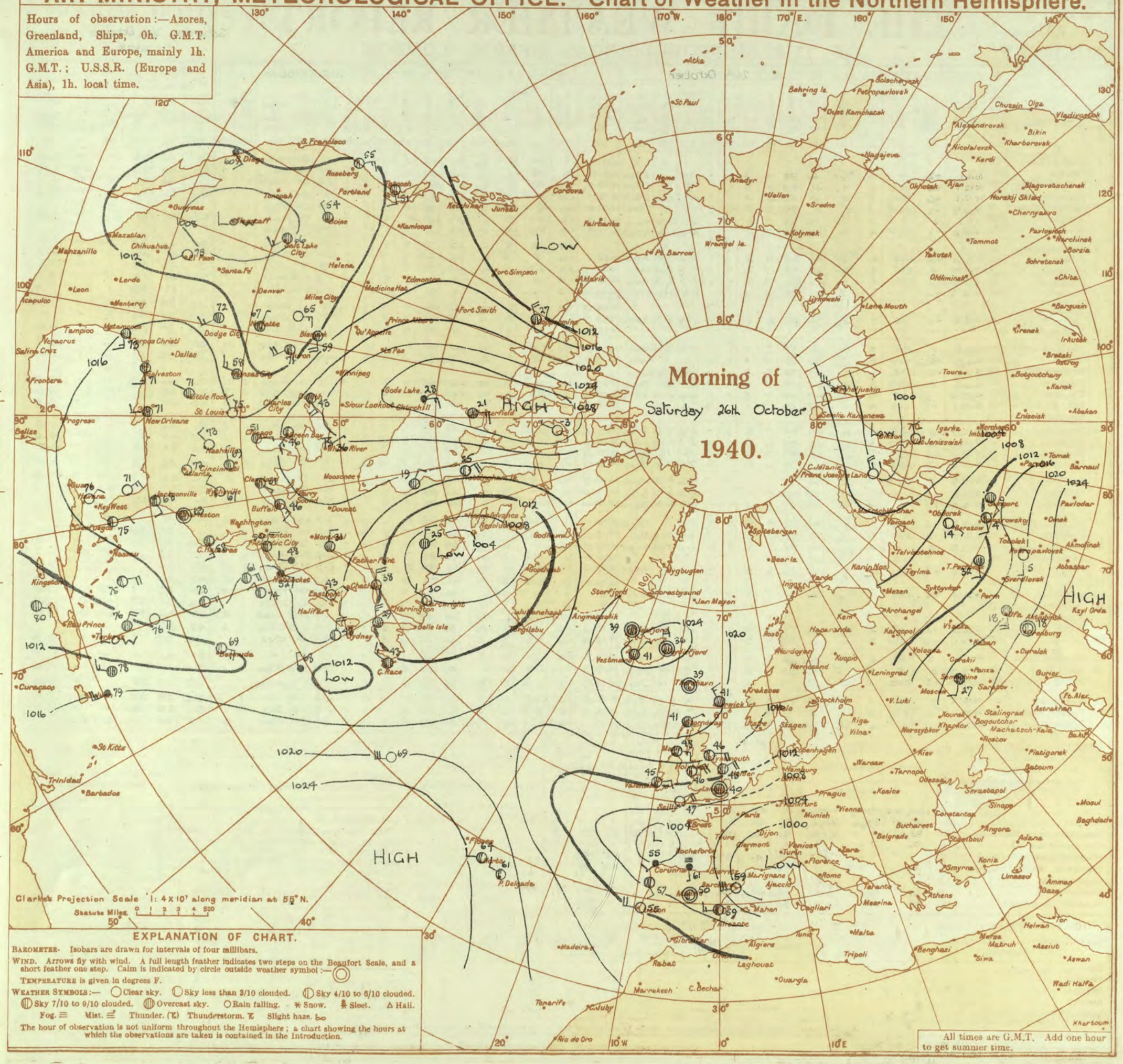
Little change.

Forecasts issued at 10·30

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 26th October 1940.

No. 28828

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	1011.1	+2	–	0	o/pr	40	85	4	5	–	–	10	10	2500
	S. Farnborough	226	1012.1	+4	E	2	z_0	41	85	6	5	–	–	9	9	2500
	Boscombe Down	417	1012.1	+6	NNE	2	z_0	37	92	6	5	–	–	4-6	4-6	2500
	Calshot (Sthmtn.)	8	1010.9	-2	NE'N	3	z_0	41	85	5	5	–	–	1	1	7200
	Lympne	346	1011.1	0	E	3	bc	45	55	7	5	–	–	2-3	2-3	4000
	Manston	154	1010.6	-2	NE'N	4	oc	45	75	7	8	–	–	4-6	4-6	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1011.6	+2	NNE	2	c/pr	43	85	8	8	–	–	7-8	7-8	3000
	Gorleston	5	1012.7	0	ENE	4	c/pr	45	85	7	8	–	–	7-8	7-8	1500
	Mildenhall	19	1012.8	-2	NE	2	b	40	92	7	5	–	–	2-3	2-3	3000
	Cranwell	240	1014.2	+4	N	2	z_0	41	85	6	5	–	–	4-6	4-6	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013.4	+4	NE	2	z_0	38	92	6	5	–	–	2-3	2-3	3000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010.8	0	ENE	5	bc	46	85	7	5	–	–	4-6	4-6	2000
	Bristol	209	1012.9	+4	NNE	3	z_0	38	97	6	5	–	–	1	1	4000
	Portland Bill	32	1010.6	+8	NE	4	c	47	92	8	3	–	–	7-8	7-8	4000
	Plymouth	82	1010.2	0	NE'E	2	b	44	75	7	5	–	–	Tr	Tr	3000
	The Lizard	240	1009.0	-2	NE	5	bc	47	85	7	8	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	1009.1	+2	ENE	4	b	47	85	7	–	–	8	0	0	–
	Guernsey	175														
6	Pembroke	142	1012.7	0	NE'E	5	c	45	85	7	5	7	–	4-6	7-8	2500
7	Holyhead	26	1014.8	-2	ENE	5	z_0	46	92	6	5	–	–	2-3	2-3	3500
	Chester (Sealand)	16	1015.4	+6	NE'N	2	c	43	85	5	5	–	–	10	10	3500
8	Manchester	70	1015.4	+2	NE'E	3	c/pr	44	75	6	5	–	–	7-8	7-8	2400
10	Spurn Head	29	1013.8	0	NE'E	4	c	46	75	7	3	3	–	4-6	7-8	4000
	Catterick	175	1017.0	+2	–		bc	39	97	7	4	–	–	2-3	2-3	3000
	Tynemouth	108	1018.6	+2	E	4	bc	46	65	7	2	–	–	2-3	2-3	3600
11	St. Abbs Head	280	1018.1	-2	NW	1	ir_0	43	85	8	5	2	–	7-8	10	2500
	Leuchars	36	1018.9	-2	NNE	1	ir_0	42	85	6	5	1	–	4-6	7-8	1500
12	Renfrew (Abbots I.)	19	1019.5	0	–	0	z_0	40	92	5	5	7	–	4-6	7-8	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1017.0	+2	E	4	b	46	85	8	5	–	–	1	1	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1021.4	+2	ENE	1	c/pr	41	92	7	5	7	–	7-8	9+	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1020.0	-2	NE	2	c/pr	45	75	8	8	1	–	4-6	9+	1500
16	Lerwick	156	1020.1	-6	N'W	3	c	41	85	7	5	3	–	4-6	7-8	2500
17	Blacksod Point	18	1016.7	0	SE	4	c	46	85	8	5	–	–	10	10	1500
18	Malin Head	84	1018.3	0	E	3	c	48	65	7	6	–	–	9	9	2500
	Aldergrove	268	1017.9	-2	ENE	2	c	43	85	7	5	–	–	10	10	3000
19	Birr Castle	173	1015.2	0	NE	1	c	43	92	8	5	–	–	10	10	1500
20	Valentia Obsy.	30	1013.1	0	E'N	2	c	45	75	8	5	–	–	7-8	7-8	4000
	Roches Point	22	1012.5	-4	E	4	ir_0	48	75	8	6	2	–	7-8	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 26th 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)	1012.7	+8	NNE	2	z_0	42	85	6	5	–	–	9+	9+	1500	1	*
Croydon	1011.9	+8	NE	1	c	40	92	4	5	–	–	9+	9+	2000	1	*
S. Farnborough	1013.0	+14	NE	2	z_0	41	85	6	5	3	–	4-6	9+	3500	1	*
Boscombe Down	1012.7	+10	NE'N	2	z_0	39	85	7	5	4	–	9	9+	2500	1	*
Calshot (Sthmtn.)	1011.8	+10	NE'N	3	z_0	42	85	6	5	–	–	9+	9+	5700	1	2§
Lympne	1011.7	+2	ENE	3	c	43	65	8	4	–	–	9	9	4000	1	
Manston	1011.5	+10	NE	4	bc	44	65	7	8	–	–	7-8	7-8	1800		*
Shoeburyness		+6	NE	3	c	43	75	8	5	–	–	9+	9+	4000	1	*
Felixstowe	1012.1	+6	E	5	c	46	55	8	8	–	–	9+	9+	5000	1	2
Gorleston	1013.1	+4	E'S	5	c	45	75	7	8	–	–	9	9	1700	1	4
Mildenhall	1013.6	+10	NE	2	c/pr	41	92	7	5	–	–	7-8	7-8	3000	1	*
Cranwell	1014.8	+6	NNW	2	c/pr	41	92	6	8	–	–	7-8	7-8	2500	1	*
Birmingham	1014.9	+2	NE	2	m	39	85	4	5	–	–	10	10	1500	1	*
Upper Heyford	1013.3	+2	NNE	3	c	38	92	7	5	–	–	9	9	3500	1	*
Ross-on-Wye	1013.9	+4	NE	2	z_0	37	92	5	5	–	–	2-3	2-3	2500	1	*
Hartland Point	1011.4	+6	ENE	4	bc	45	85	8	5	6	–	2-3	4-6	2500	0	3
Bristol	1013.7	+6	NE	1	z_0	36	97	5	5	–	–	4-6	4-6	5700	1	*
Portland Bill																
Plymouth	1010.8	+10	E	3	b	42	65	8	5	–	–	1	1	6000	0	1
The Lizard	1008.6	0	NE	5	bc	47	75	8	8	–	–	4-6	4-6	2500	0	3
Scilly (St. Mary's)	1008.8	+2	ENE	5	bc	48	75	8	8	7	–	4-6	4-6	1500	1	3
Guernsey																
Pembroke	1013.4	+10	ENE	4	c	42	85	7	5	–	–	9+	9+	2500	0	2
Holyhead	1015.8	+10	E'N	4	c	43	92	7	5	3	–	4-6	9+	4000	0	2
Chester (Sealand)	1015.9	+2	N'W	1	c	35	92	5	5	–	–	7-8	7-8	4000	1	*
Manchester	1015.9	+2	NE'E	3	z_0	42	75	5	5	3	–	9	9+	3000	0	*
Spurn Head	1014.5	+6	NE'E	5	c	47	55	7	4	4	–	4-6	9	4000	0	4
Catterick	1017.4	0	–	0	z_0	40	85	6	5	–	–	9+	9+	4000	1	*
Tynemouth	1018.6	+2	ENE	4	c	46	65	8	8	–	–	7-8	7-8	3000	1	3
St. Abbs Head	1018.1	0	NW	1	bc	42	85	9	4	5	4	2-3	4-6	2500	1	2*
Leuchars	1019.0	+6	N	1	c	40	92	7	5	3	–	7-8	10	2500	1	*
Renfrew (Abbots I.)	1019.5	+2	–	0	z_0	38	92	6	5	–	–	9+	9+	4000	1	*
Eskdalemuir	1018.8	0	N'E	2	bc	35	85	7	5	1	–	4-6	7-8	4000	1	
Point of Ayre	1017.2	+2	E'N	4	bc	45	85	8	4	–	–	2-3	2-3	2500	0	3
Tiree	1019.0	0	ENE	2	bc	42	92	9	5	–	–	4-6	4-6	2500	0	2
Stornoway	1021.1	0	–	0	c	40	55	7	5	7	–	7-8	9+	1100	1	0
Dalwhinnie	*	0	S	1	o	34	97	7	5	–	–	10	10	1500	1	*
Aberdeen	1018.8	+2	NW	2	bc	34	97	7	8	–	–	2-3	2-3	4000	1	2
Wick	1019.4	-2	NW	2	bc	37	92	8	8	–	1	2-3	2-3	2500	1	2
Lerwick	1018.4	-6	N'W	3	c	40	92	8	8	7	–	7-8	9	1500	1	*
Blacksod Point	1017.3	+8	E	3	c	46	85	8	–	7	–	0	9+	–	0	3
Malin Head	1018.3	+2	ENE	4	c	47	65	8	9	–	–	7-8	7-8	5700	0	0
Aldergrove	1018.3	+2	E'N	2	bc	36	85	8	8	–	–	7-8	7-8	4500	1	*
Birr Castle	1015.6	+6	ENE	1	c	39	85	8	5	3	–	4-6	7-8	2500	1	*
Valentia Obsy.	1013.6	+8	E'N	4	bc	44	65	8	5	–	–	4-6	4-6	220	0	1
Roches Point	1013.1	+6	E'N	4	c/pr	45	75	8	8	–	–	9+	9+	1500	1	3

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 25th. Hrs. (36)
London (Kew)	51	42	34	–	–	4.6
Croydon	50	46	34	–	0.5	2.4
S. Farnborough	53	40	32	–	Tr	4.5
Boscombe Down	50	36	32	–	Tr	5.8
Calshot (Sthmtn.)	–			–	Tr	
Lympne	49	40	31	0.2	Tr	2.9
Manston						
Shoeburyness	51	40	38	0.4	Tr	2.7
Felixstowe	53	41	40	3	2	4.3
Gorleston	51	43	39	1	4	3.6
Mildenhall	52	35	28	Tr	0.1	5.4
Cranwell	50	39	33	1	0.4	3.7
Birmingham	48	39	33	Tr	Tr	1.7
Upper Heyford	50	35	30	Tr	–	*
Ross-on-Wye	48	37	28	*	–	0.6
Hartland Point	49	42	40	–	–	3.9
Bristol	50	35	27	Tr	–	1.6
Portland Bill			*	–		*
Plymouth	52	40	36	–	–	7.7
The Lizard	52	46	*	–	–	6.6
Scilly (St. Mary's)	53	46	*	–	–	5.3
Guernsey						
Pembroke	51	40	*	–	–	7.5
Holyhead	47	44	41	–	–	4.0
Chester (Sealand)	48	35	25	–	–	1.7
Manchester	49	36	25	Tr	Tr	2.4
Spurn Head	52	44	*	0.3	Tr	2.8
Catterick	50	37	29	0.1	0.2	3.7
Tynemouth	50	44	39	0.2	–	*
St. Abbs Head	47	41	*	2	3	*
Leuchars		39	35		1	1.0
Renfrew (Abbots I.)	50	37	30	0.1	–	1.2
Eskdalemuir	47	35	31	Tr	0.1	2.2
Point of Ayre	50	44	*	–	–	5.7
Tiree	49	40	*	–	–	7.8
Stornoway	48	39	*	Tr	0.2	5.8
Dalwhinnie	45	31	27	0.2	0.1	3.5
Aberdeen	48	34	31	0.2	0.3	1.8
Wick	47	36	*	1	1	*
Lerwick	48	39	*	0.2	–	2.9
Blacksod Point	51	41	*	–	–	*
Malin Head	50	42	*	–	–	5.6
Aldergrove	49	35	28	–	–	3.6
Birr Castle	52	38	34	0.2	0.1	2.5
Valentia Obsy.	52	43	36	–	–	6.7
Roches Point	52	45	*	0.3	0.4	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather 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	bm_0bccz_0	$cbcz_0$	$bcbbccm_0$	51	42	34	–	–	4.6	*	*	6
Croydon	217	bf_0mc	cz_0m	cir_0m_0	50	46	34	–	0.5	2.4	*	*	4
Greenwich (Royal Observatory)	149	bc	c	r_0r_0bc	51	40	31	–	0.3	3.9	60	77	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	53	42	39	0.2			69	83	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	53	41	32	–	Tr		59	91	*
Camden Square	110			*						*	*		*
Kensington	80	bc	bc	*	52	42	32	–	0.1		71	77	*
Hampstead Observatory	450	bc	bc	c	50	39	35	–	–		*	90	*

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.
0.1	7-10h 25th	<0.1	0-7h 26th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 27th October 1940.

No. 28829

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)	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)	1013·0	−2	NE'E	4	z₀	48	45	6	8	3	-	9	9+	2500
	Croydon	1012·8	−2	ENE	3	z₀	46	45	6	2	6	-	4-6	7-8	3000
	S. Farnborough	1012·8	−6	NE	3	z₀	43	55	6	8	-	-	7-8	7-8	2500
	Boscombe Down	1013·1	−2	NNE	4	c	46	65	8	2	3	-	7-8	9	2500
	Calshot (Soton.)	1012·4	0	NE'E	4	z₀	48	65	6	8	-	-	9+	9+	3000
	Lympne	1013·0	−2	ENE	2	c/pr	43	75	8	8	-	-	9+	9+	3500
	Manston	1012·2	0	ENE	4	c/pr	45	75	8	8	-	-	9+	9+	3500
2	Shoeburyness	1013·1	+2	NE'E	4	c	50	85	8	7	3	-	2-3	7-8	4000
	Felixstowe	1013·1	−2	NE'E	3	c	47	55	8	8	-	-	9+	9+	3000
	Gorleston	1013·9	−2	NE	4	c/pr	46	85	7	8	-	-	9	9	1800
	Mildenhall	1014·2	0	NNE	3	c	47	65	9	8	6	-	4-6	9	2500
	Cranwell	1015·4	−2	NE	3	c	49	65	7	8	-	-	7-8	7-8	2000
3	Birmingham	1015·4	0	ENE	3	z₀	44	75	5	7	-	-	9+	9+	2500
	Upper Heyford														
4	Ross-on-Wye	1014·1	−4	ENE	3	c	47	65	8	2	3	-	7-8	7-8	4000
5	Hartland Point	1012·8	0	NNE	5	c	46	85	8	8	6	-	4-6	7-8	2500
	Bristol	1014·1	−2	E	3	c	47	65	8	2	3	-	2-3	7-8	2500
	Portland Bill	1011·7	+8	NE	4	c	48	85	8	5	4	-	4-6	9	4000
	Plymouth	1012·1	+4	ENE	4	bc	49	55	8	2	3	-	2-3	4-6	3000
	The Lizard	1010·4	0	ENE	5	bc	50	75	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	1011·1	+6	ENE	4	bc	52	65	8	8	8	-	4-6	4-6	2200
	Guernsey														
6	Pembroke	1014·5	−2	E'N	4	bc	51	65	8	2	7	-	2-3	4-6	2500
7	Holyhead	1016·6	−2	ENE	4	c	49	75	7	8	3	-	4-6	9	3500
	Chester (Sealand)	1016·4	−2	NE'N	2	z₀	48	65	5	5	-	-	9+	9+	4000
8	Manchester	1016·6	−2	NE	3	z₀	47	65	6	5	-	-	9+	9+	
10	Spurn Head	1015·1	0	NNE	3	c	49	55	8	4	6	1	4-6	7-8	4000
	Catterick	1017·6	−2	N	1	z₀	44	85	6	8	-	-	9+	9+	4000
	Tynemouth	1018·4	0	NE	3	bc	47	75	8	2	3	-	2-3	4-6	3200
11	St. Abbs Head	1018·3	−2	NNW	2	ir₀	43	85	8	8	2	-	7-8	9+	2500
	Leuchars	1018·3	−8	NW	2	bc	49	65	8	2	3	-	2-3	4-6	3500
12	Renfrew (Abbotsinch L.)	1019·2	−8	-	0	bc	46	75	7	2	6	-	2-3	4-6	4000
	Eskdalemuir	1018·1	−8	E'N	2	c	45	65	8	5	-	-	9+	9+	2500
	Point of Ayre	1018·0	+2	E'N	3	b	49	75	8	1	-	-	1	1	4000
13A	Tiree														
13B	Stornoway	1020·7	−2	-	0	c	46	85	8	8	7	-	9+	9+	1500
15	Dalwhinnie	*	−4	NE	1	c	41	75	7	2	6	-	4-6	7-8	1500
	Aberdeen	1018·2	−8	N'W	2	pr	46	85	8	8	3	-	9	9	2500
	Wick	1018·8	−4	N	3	c	45	85	8	8	6	8	4-6	7-8	1500
16	Lerwick	1017·1	−8	NNW	4	c	44	75	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1018·4	0	ENE	3	b	51	55	8	-	4	-	0	1	-
18	Malin Head	1019·5	+4	S	1	cjp	46	65	8	3	5	2	2-3	7-8	2500
	Aldergrove	1018·8	−2	E'N	3	bc	51	55	9	7	-	-	4-6	4-6	3000
19	Birr Castle	1017·3	+6	ENE	2	c	47	75	8	5	1	-	9	10	2500
20	Valentia Obsy. †	1015·4	+6	ENE	3	c	49	75	9	5	-	-	9+	9+	4000
	Roches Point	1015·6	+12	E'N	3	c/pr	46	85	8	3	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 26th 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)	1014·1	+10	NNE	3	z₀	45	65	6	5	-	-	9+	9+	2500	1	*
	Croydon	1013·7	+8	NE	1	m	43	75	4	5	-	-	10	10	2000	1	*
	S. Farnborough	1014·0	+10	NE'N	2	z₀	45	65	6	5	3	-	7-8	9+	4000	1	*
	Boscombe Down	1014·0	+10	NNE	2	c	43	75	7	5	-	-	9+	9+	4000	0	*
	Calshot (Soton.)	1013·1	+6	NNE	3	z₀	46	65	6	5	3	-	7-8	9+	5700	1	2
	Lympne	1013·5	+8	NNE	2	c/pr	41	92	7	8	-	-	9+	9+	1800	1	§
	Manston	1012·7	+8	NE'E	3	pr	43	92	6	8	-	-	9+	9+	1200		*
2	Shoeburyness	1014·0	+10	NNE	3	c	41	92	8	4	3	-	4-6	9	4000	1	*
	Felixstowe	1013·7	+6	NNE	3	cjp	41	92	8	8	6	-	4-6	9	2000	1	3
	Gorleston	1014·4	+4	E'N	3	z₀	44	85	6	8	-	-	9	9	1500	1	3
	Mildenhall	1014·7	+6	N'E	2	c	40	92	8	4	-	-	9+	9+	3000	1	*
	Cranwell	1015·5	+6	NE	3	z₀	42	85	6	5	-	-	7-8	7-8	2000	1	*
3	Birmingham	1015·4	0	NNE	2	of	43	75	3	5	-	-	10	10	2500	1	*
	Upper Heyford	1015·3	+10	NNE	3	c	41	85	7	4	-	-	9	9	4000	1	*
4	Ross-on-Wye																*
5	Hartland Point	1013·8	+8	NE	4	c	47	75	8	8	6	-	4-6	9+	2000	0	3
	Bristol	1015·2	+10	ENE	3	z₀	44	75	5	5	3	-	7-8	10	4500		*
	Portland Bill	1012·9	+14	NE	3	bc	45	85	8	5	-	-	4-6	4-6	4000	0	3
	Plymouth	1013·5	+10	NE'E	4	c	46	65	7	4	-	-	9	9	5500	0	2
	The Lizard	1012·7	+12	NNE	4	bc	47	65	8	8	6	-	4-6	4-6	1500	0	3
	Scilly (St. Mary's)	1012·4	+10	NE'E	4	c	48	55	8	8	8	-	4-6	9	1800	0	3
	Guernsey																
6	Pembroke	1015·8	+10	ENE	4	c	47	75	7	5	-	-	9+	9+	2000	0	2
7	Holyhead	1017·0	+8	ENE	2	c/r	48	75	7	5	-	-	9+	9+	5500	1	1
	Chester (Sealand)	1016·8	+8	NE'N	2	z₀	45	75	5	5	-	-	10	10	5000	1	*
8	Manchester	1017·0	+6	N'W	2	z₀	43	75	5	5	-	-	4-6	10	4000	0	*
10	Spurn Head	1015·5	0	NW'N	4	pr	45	75	8	3	1	-	4-6	9	4000	1	3
	Catterick	1017·4	+8	–	0	m	40	85	4	5	-	-	9	9	4000		
	Tynemouth	1018·3	+4	NNW	3	z₀	45	75	6	5	-	-	9+	9+	1600	1	2
11	St. Abbs Head	1017·1	0	WNW	3	ir₀	45	75	8	8	2	-	4-6	10	2500	1	2
	Leuchars	1018·0	+2	–	0	c/pr	45	85	8	8	-	-	9	9	3500	1	*
12	Renfrew (Abbotsinch L.)	1018·8	−2	N'W	2	c	44	75	7	5	-	-	9+	9+	3500	1	*
	Eskdalemuir	1018·0	−2	E	2	c	41	75	6	5	-	-	9+	9+	1500	1	*
	Point of Ayre	1017·9	0	E	2	b	46	75	8	8	-	-	1	1	4000	0	2
13A	Tiree	1018·7	0	NNE	2	bc	46	75	9	7	-	-	4-6	4-6	2800	0	2
13B	Stornoway	1020·8	+4	N	1	Dr	42	92	7	8	7	6	7-8	9	1500	1	1
15	Dalwhinnie	*	0	NE	1	c	35	92	7	7	-	-	7-8	7-8	2500	1	*
	Aberdeen	1017·8	0	NNW	2	bc/pr	42	92	7	8	-	-	2-3	2-3	2500	1	1
	Wick	1018·0	−4	N	3	c/pr	43	85	7	6	7	8	7-8	9+	800	1	2
16	Lerwick	1017·1	+6	NNW	3	c	42	85	8	8	7	-	4-6	7-8	1500	1	*
17	Blacksod Point	1018·1	+8	ENE	3	b	48	75	8	2	-	-	1	1	4000	0	2
18	Malin Head	1019·0	0	–	0	c	46	65	8	8	7	-	2-3	7-8	5700	0	1
	Aldergrove	1018·9	+2	–	0	bc	39	75	8	5	5	-	1	2-3	2500	1	*
19	Birr Castle	1017·8	+2	ENE	1	c	41	92	8	5	-	-	7-8	7-8	2500	1	*
20	Valentia Obsy. †	1016·6	+14	E	3	bc	46	65	9	5	-	-	4-6	4-6	5700	0	2
	Roches Point	1016·4	+8	ENE	3	c	45	75	8	8	-	-	9	9	1500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 26th (37)	Weather. 13h.—18h. 26th (38)	Weather. 18h. 26th to 1h. 27th (39)	Weather. 1h.—7h. 27th (40)
1	London (Kew)	cm₀z₀y	cz₀yz₀	cz₀m₀	cm₀w
	Croydon	cmbcz₀y	czom	bcm	bcm₀
	S. Farnborough	cbcczy	cyz₀	cz₀bm₀w	bm₀wxc
	Boscombe Down	c	c	cb	bbc
	Calshot (Soton.)	cirₒm₀	cm₀c	bcz₀cm₀	cm₀wbcm₀
	Lympne	cd₀pr₀	cpr₀		cm₀pr₀r₀
	Manston	cpr₀prh	cprpr₀	cpr₀r₀cpr₀	cpr₀m₀
2	Shoeburyness	c	cpr₀ld₀	cpr₀c	cbcc
	Felixstowe	cvy	cpr₀prq	cpr₀prq	cprbcc
	Gorleston	cpr₀	cpr₀c	cpr₀c	c
	Mildenhall	bccv	cvpr₀c	cbcbcw	xbcwcm₀
	Cranwell	cbcc	cpr₀qc	pr₀bcm₀	r₀r₀m₀cm₀
3	Birmingham	cz	cz	cgmbc	bccm
	Upper Heyford		bcc	bcbcm₀	cm₀cm
4	Ross-on-Wye	bcbc			cz
5	Hartland Point	bcc	c	c	c
	Bristol	bcm₀wcbc	ccm₀	cbcm₀w	bccm₀w
	Portland Bill	c	cbc	bcbc	cc
	Plymouth	bcbbcy	bcyc	cz₀bz₀bc	bbwbcw
	The Lizard	cbc	cbc	bcbc	bc
	Scilly (St. Mary's)	bcbc	bccy	bc	bybc
	Guernsey				
6	Pembroke	cbc	bcc	c	c
7	Holyhead	cbcpr₀c	r	cr₀m₀c	cbcwc
	Chester (Sealand)	cm₀m	c	cmbcbm	bccmm₀xc
8	Manchester	czir₀z₀	c	bm₀mcmw	cmgmw
10	Spurn Head	c	cpr	c	bcc
	Catterick	cprcm₀	cpm₀cm	cmcir	m₀cir₀c
	Tynemouth	cbc	bcc	cpoir₀	oir₀c
11	St. Abbs Head	cir₀	ir₀c	c	c
	Leuchars	cbcm₀bc	cpr₀c	pr₀bccw	bcwcw
12	Renfrew (Abbotsinch L.)	m	c	bcbcwm₀	bcm₀w
	Eskdalemuir	bcc	cz₀		cz₀c
	Point of Ayre	bcb	b	cc	cbcb
13A	Tiree		bc	bcc	cpr₀
13B	Stornoway	pr	d	cPR₀bc	bcpr₀c
15	Dalwhinnie	cprc	cprc		bcprc
	Aberdeen	cpr₀	cpr₀bc	bcpr₀c	cpr₀v
	Wick	bcc	cpr	bc	prbcc
16	Lerwick	cpr₀	cpr₀	cbcc	bccmif
17	Blacksod Point	bc	bc	cbc	c
18	Malin Head	cpr₀pr₀c	c	c	cpr₀vc
	Aldergrove	bcxbc	bcyvbc	bcc	cbbcc
19	Birr Castle	c	c	b	bbcx
20	Valentia Obsy. †	bcc	cbc	bbcc	cbcc
	Roches Point	cypr₀c	bcc	cpr₀	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. r₀, 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.

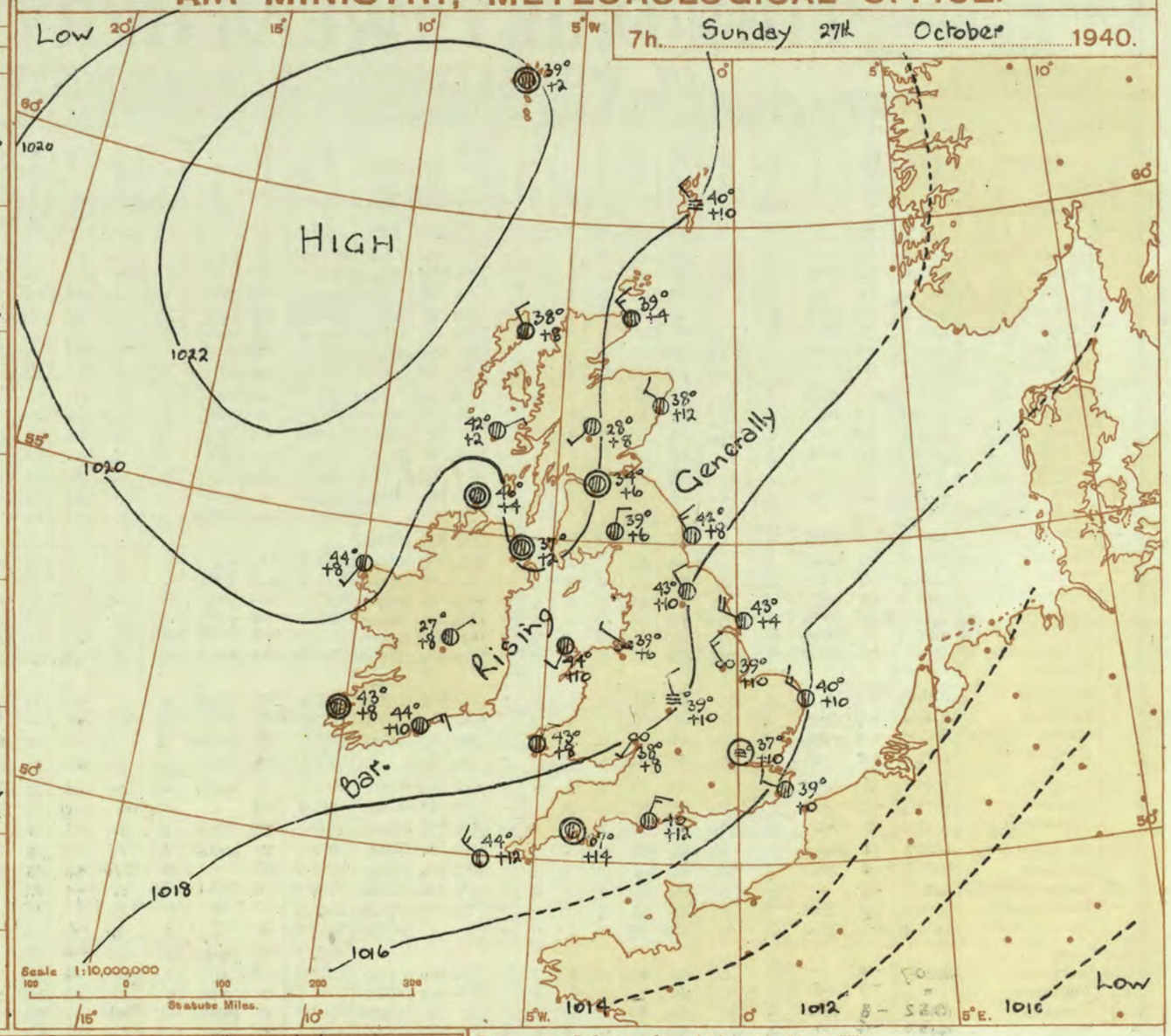
COLUMN 29—STATE OF GROUND.

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.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 27th October 1940.



Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 26th October...18h. G.M.T.						01h. G.M.T. 27th 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
109	8-	10855	29585	8-	81855	32485	5-	25744	30384	8-	10646	32186
115				52	81744	28387	52	81844	04385	52	81034	04387
203	8-	02956	08316	8-	02935	32315				8-	01953	08263
206	8-	10966	30126	40	01855	30185	5-	02855	00085	53	02963	00056
210							8-	81846	32286	56	25946	30287
220	83	02964	08216	54	01754	05214				54	01853	06214
230	70	00962	30103	53	02965	02217	51	02964	32116	5-	02967	12117
245				40	00953	32223	50	00963	28223	83	01954	29324
260	70	02876	28226	5-	05676	00016				5-	02778	00028
277	70	00962	03202	53	01763	28113	5-	05666	26120	5-	02967	30127
279							--	05656	04120	--	02756	04226
285				8-	02747	32417						
288	8-	01755	30285	56	17564	28114	5-	05556	30256	5-	05658	28258
273	00	00790	02200							53	01763	11105
301	73	02765	06227	53	47464	02125	5-	05567	00017	5-	05668	00028
321	8-	81855	04487	53	01653	32324						
299	8-	25847	06387	8-	02746	28316	50	01743	25213	80	82746	25286
292	87	81855	04287	44	05664	00084	5-	05657	30287	52	02756	30328
310	--	02636	04516									
316	8-	05656	02286	53	01663	32113	5-	02657	32257	53	51564	32367
333	83	17664	08326	5-	17667	16546	5-	01665	00025	5-	02767	00027
334	--	05544	05227									
340				5-	05666	32186	50	05554	00014	5-	08467	00017
136	86	25855	06386	86	10844	05386	5-	01765	02285	86	05663	31325
336	--	02753	08516	--	05642	04428						
350	23	01855	04325	53	02865	02225				5-	05557	02327
368												
379				5-	01754	02314	50	05644	02324	5-	05548	02128
390				54	05664	02215	50	05662	03313	5-	05667	02217
382				4-	05666	01226	5-	05666	32346	5-	05567	32227
438	8-	02857	04527							9-	03757	02357
430				53	05654	04216	50	05664	00025	5-	05663	02313
409	24	00861	03412	53	02864	05326	50	01763	03323			

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th October
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Winds between north and northeast light; mainly fair with some bright periods; a few showers near the East Coast; cold with frost locally at night; local early morning mist.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light variable breeze; fair or fine; rather cold with frost locally at night; local mist or fog temporarily in early morning.
10 N.E. England 11 S.E. Scotland	As 1-6.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland.	As 7-9.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light variable wind; fair apart from slight local showers near the coast; cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 7-9.

GENERAL INFERENCE.

An anticyclone centred between Scotland and Iceland will drift very slowly southeastwards. Weather will be fair and quiet except for a few local showers on the eastern coasts. A little early morning fog may be expected with frost locally.

FURTHER OUTLOOK.

Continuing fair generally; some morning fog.

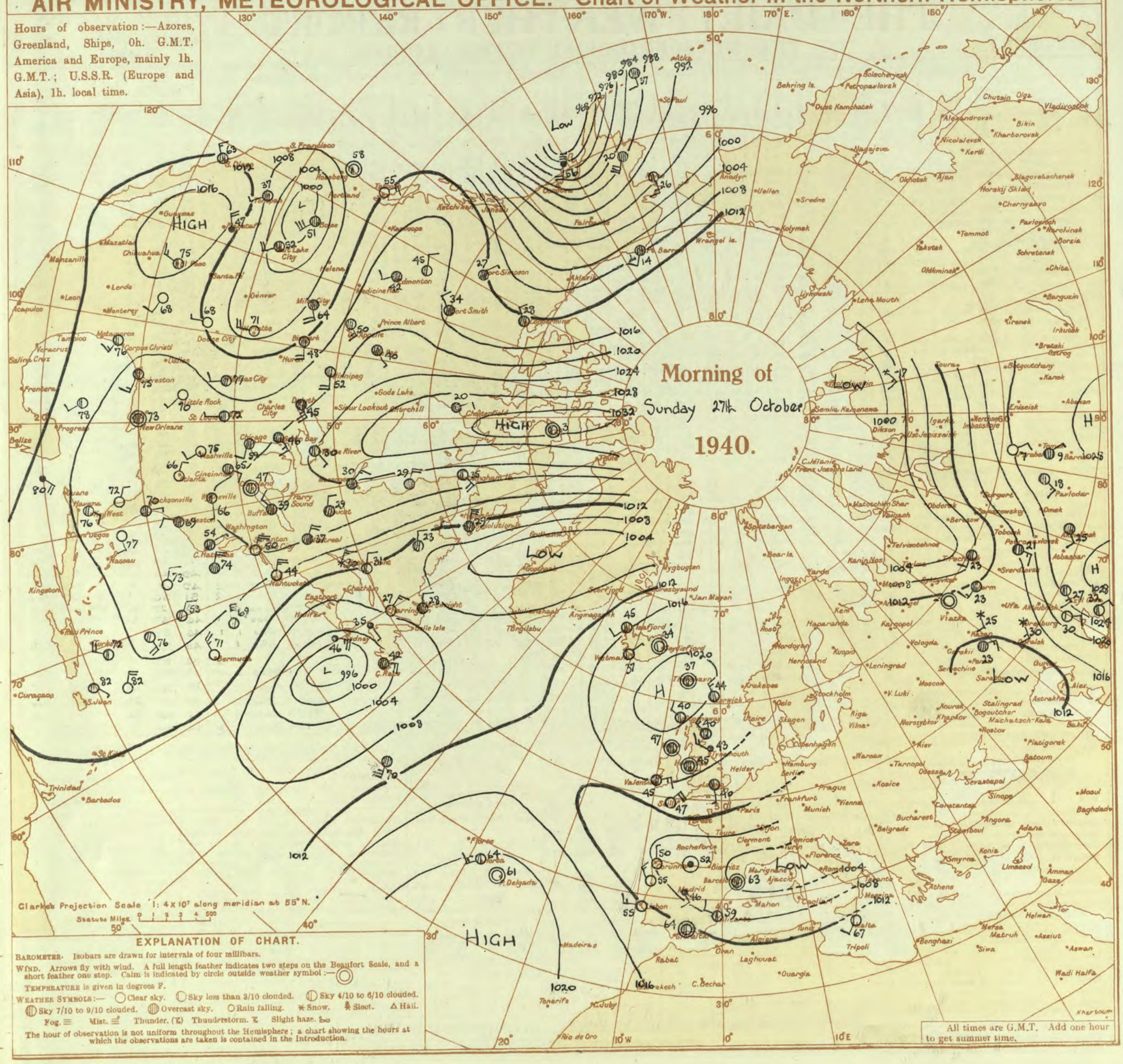
Forecasts issued at 10.30.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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

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.



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.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

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 27th October 1940.

No. 28829

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	1015.0	+6	S	1	m	40	85	4	5	-	-	4-6	4-6	2500
	S. Farnborough	226	1015.6	+2	NNW	2	z_0	38	85	6	5	-	-	Tr	Tr	3500
	Boscombe Down	417	1015.8	+6	N'E	3	b	37	85	7	5	-	-	2-3	2-3	4000
	Calshot (Sthmtn.)	8	1014.7	+4	NE'N	3	z_0	42	85	6	-	7	*	0	7-8	-
	Lympne ...	346	1014.7	+6	ENE	2	pr	40	92	6	8	-	-	10	10	1500
	Manston ...	154	1013.8	+6	E	1	c/pr	41	92	6	8	6	-	7-8	9	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1014.2	0	NNE	3	c/pr	42	85	7	8	-	-	9	9	2500
	Gorleston ...	5	1014.6	+2	NE'E	3	c/pr	45	85	7	8	-	-	7-8	7-8	1200
	Mildenhall ...	19	1018.4	+2	N'W	2	bc	33	92	7	5	-	-	2-3	2-3	4000
	Cranwell ...	240	1016.5	+2	N	3	z_0	38	92	6	-	7	-	0	4-6	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1016.2	+2	NNE	2	z_0	39	92	6	5	-	-	10	10	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1015.8	+4	NE	4	c	45	75	8	5	-	-	7-8	7-8	1500
	Bristol ...	209	1016.8	+6	NE	2	z_0	40	85	5	5	-	-	2-3	2-3	5700
	Portland Bill ...	32	1014.4	+10	NE	3	bc	42	95	8	5	-	-	4-6	4-6	4000
	Plymouth ...	82	1015.7	+8	ENE	2	b	41	75	7	5	-	-	Tr	Tr	3500
	The Lizard ...	240	1015.1	+10	NNE	4	bc	44	78	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1015.1	+14	ENE	4	b	47	55	7	-	-	-	0	0	-
	Guernsey ...	175														
6	Pembroke ...	142	1017.3	+4	ENE	3	c	46	75	7	5	-	-	9+	9+	2500
7	Holyhead ...	26	1017.7	+2	-	0	c	45	75	7	5	3	-	9	9+	3700
	Chester (Sealand)	16	1018.0	+2	-	0	m	34	85	4	-	-	-	0	0	-
8	Manchester ...	70	1017.8	+2	-	0	m	37	92	4	5	-	-	10	10	3500
10	Spurn Head ...	29	1015.5	0	NW'W	4	pr	44	85	7	8	-	-	9	9	4000
	Catterick ...	175	1017.4	0	NW'N	2	ir	42	85	6	5	-	-	10	10	2200
	Tynemouth ...	108	1018.4	0	NW	3	ir_0	43	92	6	-	2	-	10	10	1500
11	St. Abbs Head	280	1017.4	+4	N	4	c	44	85	8	5	4	-	4-6	7-8	2500
	Leuchars ...	36	1018.5	+2	WNW	1	c	42	85	7	8	6	-	7-8	7-8	2500
12	Renfrew (Abbots I.)	19	1019.5	+4	-	0	z_0	40	92	5	5	3	-	4-6	7-8	5000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1018.3	+4	NE	3	c	47	75	8	5	-	-	9+	9+	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1020.5	+2	NW	2	bc	50	92	7	8	7	-	4-6	4-6	1300
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1018.4	+2	NW	3	c	42	97	8	8	7	-	2-3	4-6	1500
16	Lerwick ...	156	1018.2	+6	N	3	c	44	85	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	18	1019.7	+4	-	0	bc	45	75	8	4	-	-	4-6	4-6	800
18	Malin Head ...	84	1019.3	+4	-	0	c	47	65	8	4	7	-	4-6	7-8	5700
	Aldergrove ...	268	1019.8	+2	-	0	c	39	85	7	5	-	-	9+	9+	4500
19	Birr Castle ...	173	1019.4	+6	ENE	1	b	33	97	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1018.4	+4	ENE	3	c	45	65	8	6	-	-	9	9	4000
	Roches Point	22	1018.4	+10	E'N	3	c/pr	46	85	8	8	-	-	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 27th 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)	1017.1	+12	N'W	2	z_0	40	85	6	5	-	-	9r	9+	2500	1	*
	Croydon ...	1016.3	+10	-	0	m	37	92	4	5	-	-	7-8	7-8	2500	1	*
	S. Farnborough	1017.3	+12	NW	1	z_0	34	92	6	5	3	1	1	7-8	5000	1	*
	Boscombe Down	1017.5	+10	N	2	bc	36	92	6	4	-	-	7-8	7-8	4000	0	*
	Calshot (Sthmtn.)	1016.9	+14	N'W	3	z_0	39	85	6	-	3	3	0	4-6	-	1	§1
	Lympne ...	1016.4	+20	WNW	2	c/r	39	97	8	5	-	-	7-8	7-8	1200	1	*
	Manston ...	1015.9	+14	-	0	pr	41	97	6	2	-	-	9+	9+	1600		
2	Shoeburyness ...	1016.5	+16	N'W	1	c	39	92	8	5	-	-	9	9	4000	1	*
	Felixstowe ...	1016.1	+14	NNW	2	c/p	39	92	6	8	-	-	9+	9+	2000	1	2
	Gorleston ...	1016.1	+10	NW'N	3	z_0	40	85	6	5	-	-	7-8	7-8	2500	1	2
	Mildenhall ...	1016.7	+10	W'N	2	z_0	37	97	6	5	-	-	9+	9+	3500	1	*
	Cranwell ...	1017.3	+10	NNW	3	z_0	39	92	6	5	7	-	4-6	9	5000	1	*
3	Birmingham ...	1018.1	+10	NNW	2	m	39	85	4	5	-	-	10	10	1500	1	*
	Upper Heyford	1017.2	+8	N	3	m	38	92	4	5	-	-	9+	9+	4000	1	*
4	Ross-on-Wye	1018.1	+8	SW'S	1	z_0	38	92	5	5	-	-	10	10	2500	1	*
5	Hartland Point	1017.5	+12	E	3	c	44	88	8	8	6	-	4-6	9	2500	0	3
	Bristol ...	1018.4	+14	NNE	2	z_0	40	85	6	5	-	-	9+	9+	5700	1	*
	Portland Bill ...	1016.9	+12	NE	3	c	40	85	8	1	4	-	4-6	7-8	4000	0	3
	Plymouth ...	1017.7	+14	-	0	bc	37	92	7	5	4	2	1	7-8	5000	0	1
	The Lizard ...	1017.1	+12	ENE	3	bc	43	85	8	4	-	-	2-3	2-3	2500	0	2
	Scilly (St. Mary's)	1017.0	+12	ENE	3	bc	44	68	8	8	-	-	2-3	2-3	2200	0	2
	Guernsey ...																
6	Pembroke ...	1018.9	+8	NE	2	c	43	75	7	5	7	-	9	9+	5700	0	1
7	Holyhead ...	1018.9	+10	SSW	2	z_0	44	85	6	5	8	-	7-8	9+	3800	0	0
	Chester (Sealand)	1018.6	+6	WNW	1	z_0	39	85	5	5	-	-	10	10	5700	1	*
8	Manchester ...	1018.5	+6	-	0	m	39	92	4	5	7	-	7-8	10	4800	1	*
10	Spurn Head ...	1016.3	+4	NW'W	4	z_0	43	85	6	3	7	1	4-6	9	4000	0	3
	Catterick ...	1018.4	+10	NNW	1	c	43	75	8	5	-	-	9+	9+	3500	0	*
	Tynemouth ...	1018.6	+8	NNW	3	z_0	42	85	6	8	-	-	7-8	7-8	2800	1	2
11	St. Abbs Head	1018.0	+6	N	4	c	44	75	8	3	7	8	4-6	7-8	2500	0	3
	Leuchars ...	1019.4	+8	WNW	2	c	40	85	8	2	6	-	4-6	9	3500	1	*
12	Renfrew (Abbots I.)	1020.0	+6	-	0	c	34	92	8	5	-	-	9+	9+	4500	1	*
	Eskdalemuir ...	1019.3	+6	NNE	2	c	39	75	8	5	-	-	10	10	2500	1	
	Point of Ayre ...	1019.0	+6	NE	3	b	45	85	8	5	-	-	1	1	4000	0	2
13A	Tiree	1019.5	+2	ENE	1	c	42	97	8	8	-	-	7-8	7-8	1800	1	2
13B	Stornoway ...	1021.2	+8	NNW	2	c	38	92	8	8	6	-	7-8	9	1900	1	2
15	Dalwhinnie ...	*	+8	SW	1	c	28	97	8	5	-	-	7-8	7-8	2500	0	*
	Aberdeen ...	1019.4	+12	NW'N	2	c/p	38	97	8	8	-	-	9+	9+	1500	1	1
	Wick ...	1019.4	+4	WNW	3	c	39	97	8	5	7	-	4-6	9	1500	1	1
16	Lerwick ...	1020.0	+10	NNW	2	if	40	97	3	5	1	-	7-8	10	450	1	*
17	Blacksod Point	1020.3	+8	SW	1	c	44	85	8	-	7	-	0	9+	-	0	2
18	Malin Head ...	1019.7	+4	-	0	c	46	65	8	8	-	-	7-8	7-8	5700	0	0
	Aldergrove ...	1020.3	+2	-	0	c	37	92	8	5	-	-	9+	9+	4000	1	*
19	Birr Castle ...	1020.6	+8	ENE	1	bc	27	97	8	5	-	-	2-3	2-3	2500	1	*
20	Valentia Obsy.	1019.3	+8	-	0	c	43	75	8	5	-	-	9+	9+	4000	0	1
	Roches Point	1019.5	+10	ENE	3	c	44	85	8	5	-	-	9+	9+	2500	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 ~~26th~~ 27th hrs. (36)
1	London (Kew)	48	39	33	-	-	2.1
	Croydon ...	47	37	35	-	-	1.9
	S. Farnborough	50	32	24	-	-	1.5
	Boscombe Down	47	34	31	-	-	2.4
	Calshot (Sthmtn.)	50	38	35	Tr	-	2.3
	Lympne ...	45	38	34	0.1	4	0.9
	Manston ...	*	*	*	*	*	*
2	Shoeburyness ...	50	38	31	1	0.1	3.6
	Felixstowe ...	50	38	36	1	2	4.1
	Gorleston ...	48	40	37	0.5	1	0.0
	Mildenhall ...	49	33	24	0.4	Tr	2.9
	Cranwell ...	49	37	31	0.2	0.3	2.0
3	Birmingham ...	45	36	27	*	-	1.0
	Upper Heyford	48	38	31	-	-	*
4	Ross-on-Wye		37	28		-	3.0
5	Hartland Point	48	43	42	-	-	2.4
	Bristol ...		38	32		-	1.8
	Portland Bill ...	49	39	*	-	-	*
	Plymouth ...	51	36	27	-	-	6.2
	The Lizard ...	51	41	*	-	-	3.8
	Scilly (St. Mary's)	53	44		-	-	5.7
	Guernsey ...						
6	Pembroke ...	51	41	*	-	-	3.7
7	Holyhead ...	50	42	34	Tr	Tr	2.0
	Chester (Sealand)	48	33	25	-	-	0.0
8	Manchester ...	48	34	27	Tr	-	0.0
10	Spurn Head ...	52	43	*	Tr	Tr	1.7
	Catterick ...		39	39		0.1	0.1
	Tynemouth ...	47	36	38	-	2	*
11	St. Abbs Head	46	43	*	0.2	Tr	*
	Leuchars ...	51	39	33	Tr	Tr	
12	Renfrew (Abbots I.)	46	34	30	Tr	-	0.4
	Eskdalemuir ...	47	36	31	-	-	3.0
	Point of Ayre ...	49	45	*	-	-	8.6
13A	Tiree	49	41	*	-	0.2	8.7
13B	Stornoway ...	51	36	*	Tr	0.2	2.4
15	Dalwhinnie ...	43	27	20	0.4	0.2	1.1
	Aberdeen ...	46	37	32	0.2	0.1	2.1
	Wick ...	46	38	*	0.4	1	*
16	Lerwick ...	45	39	*	Tr	-	4.3
17	Blacksod Point	52	37	*	-	-	*
18	Malin Head ...	49	41	*	-	Tr	0.3
	Aldergrove ...	51	34	28	-	-	7.5
19	Birr Castle ...	49	27	23	-	-	0.3
20	Valentia Obsy.	50	40	32	-	-	1.6
	Roches Point	52	44	*	1	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. (To-day.)
Kew ...	18	cm_0z_0y	cz_0yz_0	cz_0m_0w	48	39	33	-	-	2.1	*	*	5
Croydon ...	217	cmbczcy	cz_0m	bcmbcm	47	44	35	-	-	1.9	*	*	3
Greenwich (Royal Observatory) ...	149	cbcy	cy	$cbcm_0w$	48	38	31	*	Tr	1.9	57	83	4
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	50	40	39	—			63	86	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*									*
Camden Square ...	110	bc	bc	*	50	39	35	-	-	*	*	78	*
Kensington ...	80	bc	c	*	49	40	33	-	-		62	79	*
Hampstead Observatory ...	450	cbc	c	bc	47	36	33	-	-		*	95	*

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.
0.1	8-10h 26th	<0.1	0-5h 27th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...														

‡ 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.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Preciptious.
4	Rough.	9	Confused.

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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.

BRITISH SECTION

Monday 28th October 1940.

No. 28830

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)	1017·9	0	WNW	2	zo	49	65	6	8	-	1	7-8	9	2500
	Croydon	1017·9	+4	N	2	m	47	75	4	5	-	-	9	9	4000
	S. Farnborough	1018·5	+4	WNW	2	zo	47	65	6	8	3	-	7-8	9+	3000
	Boscombe Down	1018·7	+2	NNE	2	zo	45	75	6	8	3	-	7-8	9	3000
	Calshot (Soton.)	1018·1	+2	-	0	c	49	65	7	7	3	-	7-8	9+	3500
	Lympne	1017·7	+2	WNW	2	bc	44	85	7	8	6	-	2-3	2-3	2500
	Manston	1017·1	0	W	2	bc	50	75	8	3	6	3	2-3	4-6	2500
2	Shoeburyness	1017·5	+8	N	1	c	49	65	8	8	7	-	7-8	9+	4000
	Felixstowe	1016·9	+2	NE'N	2	c	52	65	7	8	4	-	7-8	7-8	3000
	Gorleston	1016·8	+4	N'W	2	bc	49	65	6	2	4	-	2-3	4-6	2500
	Mildenhall	1017·3	-2	N'W	2	c	49	75	7	8	7	-	9	9+	3500
	Cranwell	1018·3	-2	NW	4	c	47	75	7	8	-	-	9+	9+	1500
3	Birmingham	1019·0	0	N	3	zo	46	65	6	5	7	-	4-6	9	2500
	Upper Heyford	1018·8	+4	NNW	2	zo	46	75	6	5	3	-	2-3	9+	2500
4	Ross-on-Wye	1019·2	0	NE'N	2	c	47	65	7	5	-	-	9+	9+	2500
5	Hartland Point	1019·5	+4	NE	3	bc	48	65	8	5	4	-	2-3	4-6	2500
	Bristol	1019·7	+2	NNE	2	zo	47	75	6	7	3	-	4-6	9+	3500
	Portland Bill	1018·7	+8	N	3	c	48	85	8	2	-	-	7-8	7-8	4000
	Plymouth	1019·6	+6	NE	3	e	50	45	8	7	-	-	9	9	3000
	The Lizard	1018·9	+8	E	2	bc	53	55	8	7	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1020·2	+10	ENE	2	c	50	55	8	8	6	-	4-6	7-8	1800
	Guernsey														
6	Pembroke	1020·5	+6	N'E	1	c	49	55	8	8	-	-	9	9+	3500
7	Holyhead	1019·9	+4	NE'N	2	c	49	65	7	5	3	-	9	9+	5700
	Chester (Sealand)	1019·6	-2	WNW	1	zo	50	65	6	7	-	-	4-6	4-6	7200
8	Manchester	1019·6	+2	NW'N	2	zo	49	55	6	5	-	-	9	9	7200
10	Spurn Head	1017·1	0	N'E	3	c	47	85	7	3	5	4	4-6	9	4000
	Catterick	1019·9	+4	NNW	2	c/pr	47	75	8	8	-	-	9	9	3000
	Tynemouth	1019·7	+6	NW	3	c/pr	46	85	7	8	-	-	7-8	7-8	2800
11	St. Abbs Head	1019·9	+10	NNE	3	c	45	85	9	8	4	-	4-7	7-8	2000
	Leuchars	1020·7	+6	N	2	c/pr	47	75	8	7	7	-	4-6	9	2800
12	Renfrew (Abbots I.)	1021·5	+2	WSW	1	c	46	65	7	7	-	-	9+	9+	4500
	Eskdalemuir	1020·1	+4	NE'N	2	c	46	65	8	5	7	-	4-6	9	4000
	Point of Ayre	1020·5	+10	ENE	2	b	49	75	8	1	4	-	Tr	1	4000
13A	Tiree	1020·6	0	ENE	2	c	46	85	9	8	-	-	7-8	7-8	2100
13B	Stornoway	1022·3	+4	-	0	c	46	85	8	8	7	-	7-8	9	2500
15	Dalwhinnie	*	+6	N	1	c	41	85	7	2	-	-	9	9	1500
	Aberdeen	1021·1	+4	NE	1	cjp	45	85	8	8	-	-	9	9	1500
	Wick	1021·1	+2	NE	2	bc	49	75	8	8	6	8	4-6	4-6	1500
16	Lerwick	1020·6	-2	N'W	2	c	47	85	8	8	7	-	4-6	9	800
17	Blacksod Point	1021·8	+2	-	0	c	48	65	8	-	7	-	0	9+	-
18	Malin Head	1021·3	+8	W	1	bc	48	75	7	2	-	8	2-3	4-6	5700
	Aldergrove	1021·4	+2	-	0	c	47	65	9	8	-	-	9+	9+	3500
19	Birr Castle	1022·0	+4	N	1	b	50	65	7	-	-	-	0	0	-
20	Valentia Obsy. †	1021·1	+4	SSE	2	bc	54	55	8	1	3	-	1	2-3	4000
	Roches Point	1021·4	+4	N	2	bc	50	75	8	5	-	-	4-6	4-6	4000

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)	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)	1019·5	+10	NNW	2	zo	46	75	6	5	-	-	9+	9+	2500	1	*
Croydon	1019·2	+8	N	1	of+	47	75	3	5	-	-	10	10	3000	1	*
S. Farnborough	1019·7	+12	NW	1	zo	45	75	6	5	-	-	10	10	4500	1	*
Boscombe Down	1020·1	+8	N'W	2	m	44	85	4	5	-	-	10	10	4000	0	*
Calshot (Soton.)	1019·5	+10	NNW	3	zo	45	85	5	5	-	-	9+	9+	1600	1	
Lympne	1018·7	+8	W	2	bc	40	85	7	5	-	-	4-6	4-6	6500	1	§
Manston	1018·1	+10	NNW	2	zo	45	85	6	4	-	-	2-3	2-3	3500		*
Shoeburyness	1018·5	+12	NNW	2	bc	47	55	8	8	7	-	2-3	4-6	4000	1	*
Felixstowe	1018·1	+10	NNW	2	bc	44	85	7	4	-	-	2-3	2-3	4000	1	2
Gorleston	1018·0	+8	NW	2	bc	47	85	6	8	3	-	2-3	4-6	2500	1	1
Mildenhall	1018·8	+10	NW	2	c	42	85	8	4	-	-	9	9	3500	0	*
Cranwell	1019·9	+10	N	3	zo	44	85	6	5	-	-	4-6	4-6	2000	1	*
Birmingham	1020·4	+8	NNW	3	of+	45	65	3	5	-	-	10	10	2500	1	*
Upper Heyford	1019·7	+6	-	0	c	44	85	6	5	-	-	9+	9+	1800	1	*
Ross-on-Wye	1020·3	+4	WNW	1	zo	45	75	6	5	-	-	10	10	2500	1	
Hartland Point	1020·4	+6	N	3	c	48	55	8	5	7	-	4-6	9+	2500	0	2
Bristol	1020·9	+6	-	0	m	43	85	4	5	-	-	10	10	5000	1	
Portland Bill	1020·0	+10	N	3	c	46	85	8	5	-	-	10	10	4000	0	3
Plymouth	1020·9	+8	N	2	zo	47	65	5	5	-	-	9+	9+	6900	0	1
The Lizard	1020·7	+6	NNE	2	bc	45	65	8	8	-	-	4-6	4-6	2500	0	3
Scilly (St. Mary's)	1020·9	+2	NE'N	2	c	48	55	8	8	3	-	4-6	7-8	1800	0	2
Guernsey																
Pembroke	1021·1	+8	N	2	c	48	65	8	8	-	-	7-8	10	3000	0	1
Holyhead	1020·8	+6	N'E	3	c	49	75	8	5	-	-	10	10	3800	0	1
Chester (Sealand)	1020·8	+10	WNW	2	c	44	85	6	5	-	-	9	9	3000	1	*
Manchester	1020·5	+10	NW	2	bf+	36	85	3	5	-	-	1	1	7000	1	*
Spurn Head	1019·4	+8	NW	3	pr	46	85	7	8	-	-	9	9	4000	1	2
Catterick	1020·8	+6	-	0	pr	44	92	7	5	-	-	9+	9+	2500	0	
Tynemouth	1021·2	+10	NE	3	c/pr	46	92	6	8	-	-	7-8	7-8	1500	1	2
St. Abbs Head	1021·3	+6	NE	2	c	45	75	8	5	4	-	4-6	7-8	2000	0	2
Leuchars	1021·9	+10	NW	1	c	45	85	7	7	-	-	10	10	2800	1	*
Renfrew (Abbots I.)	1022·3	+6	-	0	zo	42	85	6	5	-	-	7-8	7-8	4500	1	*
Eskdalemuir	1021·9	+8	N	1	c	40	85	7	5	-	-	7-8	7-8	1500	1	*
Point of Ayre	1021·4	+2	NNE	2	b	46	65	8	4	-	-	1	1	4000	0	1
Tiree	1021·7	+4	-	0	c	45	85	9	5	-	-	9+	9+	2500	0	1
Stornoway	1022·8	+4	-	0	c	44	92	7	8	7	-	7-8	9	2000	1	0
Dalwhinnie	[illegible]	+8	-	0	c	35	97	7	5	-	-	7-8	7-8	2500	0	*
Aberdeen	1022·3	+10	N	2	c	44	85	6	8	-	-	9+	9+	2500	1	1
Wick	1022·7	+10	N	1	c	45	85	8	8	6	8	7-8	9+	1500	1	1
Lerwick	1022·0	+12	NNW	3	c/d	43	92	7	5	7	-	7-8	9+	800	1	*
Blacksod Point	1021·6	+2	-	0	c	45	85	8	-	7	-	0	10	-	0	0
Malin Head	1021·4	+2	SW	1	c	45	85	7	8	-	-	9	9	4000	0	0
Aldergrove	1022·1	+6	-	0	c	45	75	8	5	-	-	9+	9+	3500	1	*
Birr Castle	1022·4	+6	NE	1	b	38	85	7	-	-	-	0	0	-	1	*
Valentia Obsy. †	1021·4	+4	-	0	b	44	85	7	-	3	-	0	1	-	0	1
Roches Point	1022·0	+6	SE	3	b	43	85	8	5	-	-	1	1	4000	1	3

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)	cmobccz	cz	cmo	cmow
Croydon	cfm	czmf	bcf	befcf
S. Farnborough	cbcc zo	cz	p	bcw, mofc
Boscombe Down	cmcmo	cmzucm	bc	bccm
Calshot (Soton.)	bcmobzo	ccm	cimcm	cmcmo
Lympne	bccprc	cbc	bcbmm	bmxmo
Manston	cpro cbc	bcm	bcmbm	bcmo pro
Shoeburyness	c	bcy	bcy	bmFFe
Felixstowe	bcmoc	cbc	bbmw	bmo wcpro
Gorleston	cbc	bcpro	bccpro	
Mildenhall	cmo, bcmoc	ccpcc	bcpro, mx	bmoxcpro FF
Cranwell	cbcmoc	cpcccm	bcmo	bmoFF
Birmingham	cmbc	cz	fcbc	bccf
Upper Heyford	cmo	czm	cm	cmom
Ross-on-Wye	cmcmo	c	cbcmo	czo
Hartland Point	cbc	bccy	bccy	c
Bristol	cmozo	czcm	cmz	cmo
Portland Bill	c	c	co	c
Plymouth	bccy	cy cz	cz	czobcmow
The Lizard	bcy	bc	bcc	c
Scilly (St. Mary's)	bccy	cbccy	c	c
Guernsey				
Pembroke	cy	c	c	c
Holyhead	cmfc	c	cbc	bwmobc
Chester (Sealand)	cbczo	bczc	cbmx	bbcmfx
Manchester	cmfmzo	bczmfw	bfwmffx	FxFF F
Spurn Head	cpr	cpp	bcc	bc
Catterick	cbcproc	ccprp	prirbm	bmoiroc
Tynemouth	cp		cpoc •	cpc
St. Abbs Head	iroc	c	cprbc	bccrr
Leuchars	cwcproc	c	bccw	cwdodoc
Renfrew (Abbots I.)	cwmoc	c	e	cmowrom
Eskdalemuir	cbcy	bcpro	bccpro	croro
Point of Ayre	b	bcb	cbcbc	bbcc
Tiree	bc	c	c	c
Stornoway	bcc pro	cpro	cpro	cproy
Dalwhinnie	c	cbcc	czo	cprp
Aberdeen	cpro	cpcz		ccir o
Wick	cbc		cbcc	cddc
Lerwick	cif bcc	cid	cbcc	c
Blacksod Point	c	c	cbc	bbc
Malin Head	cpr cc	c	c	cbc
Aldergrove	c		cbccu	cbcc
Birr Castle	b	b	b	bx
Valentia Obsy. †	cbcby	byb	bwm	bwmobbc
Roches Point	cbc	bcb	bw	bw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/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.*

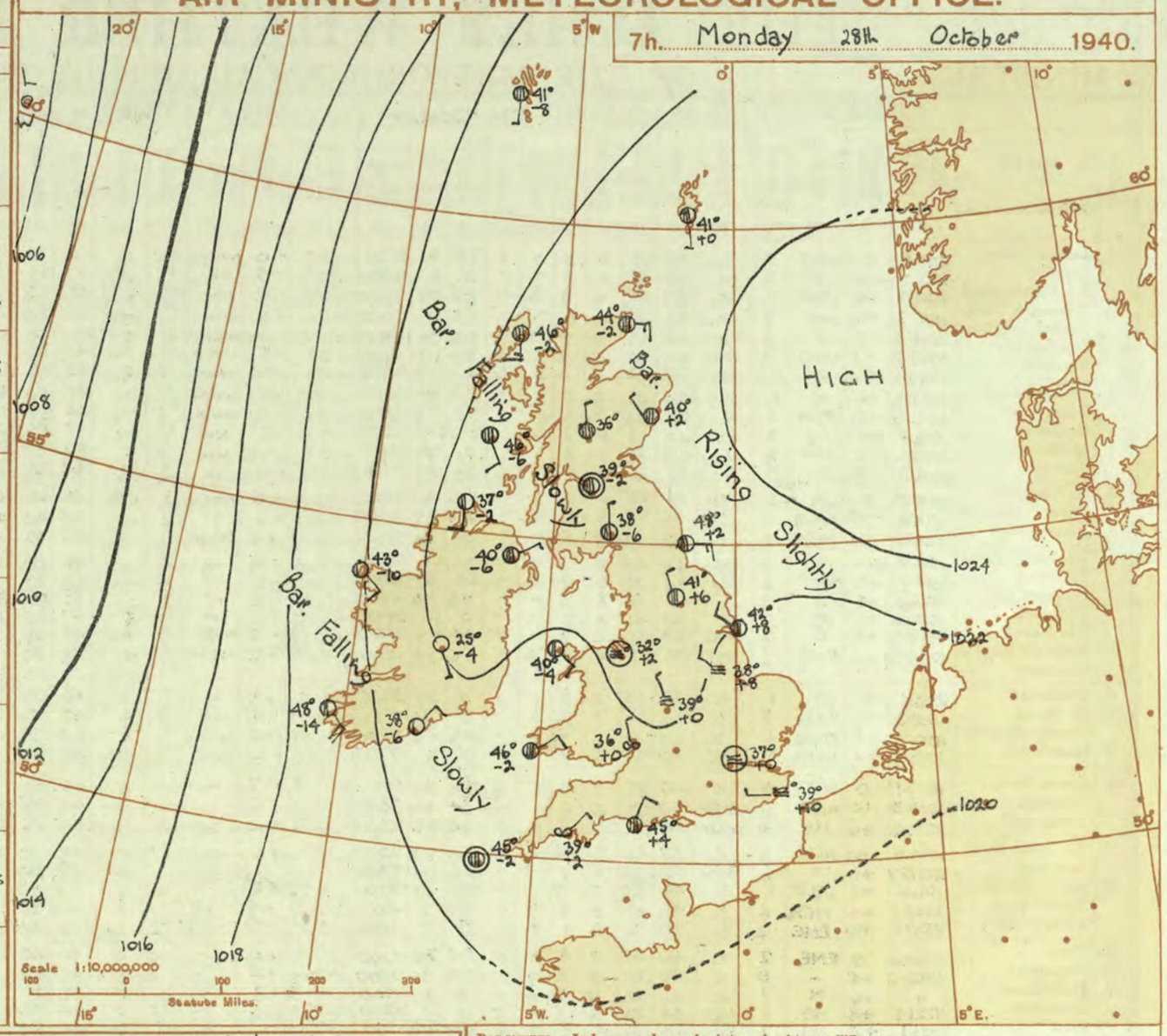
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 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	80	25545	01185	5-	02946	24186	5-	01854	00084	5-	02866	00026
115	52	81344	04285	52	81734	12186	51	01854	20385	57	01854	16318
203	25	01943	04313									
206	8-	02967	00027	5-	02968	00028	5-	03748	00028	5-	02857	24157
210				5-	54648	24158	51	02855	14158			
220	84	01963	09204									
230	70	01964	28114	5-	02967	00017	50	01864	00014	5-	02868	00028
245	93	10946	03326	4-	02967	32227	5-	02737	02257	5-	02856	00066
260	7-	02867	32227	5-	20768	00288	5-	61758	00088	5-	22566	00066
277	5-	02877	16127	50	00861	01121	5-	02768	30228	50	04964	24114
279												
285										8-	03738	24288
288	8-	58557	28257	8-	45355	28185	5-	08458	30368	52	21446	17258
273												
301	10	05663	02213	50	05663	30113	50	05562	00012	5-	05566	08116
321	87	05664	28427	5-	05664	28384	5-	02764	00024	50	47368	30113
299	87	25844	02384	8-	81746	04486	80	01742	04312	80	01744	08114
292	8-	02767	29387	5-	05655	28225	50	05653	30283	50	05653	26163
310										--	01634	08314
316	83	05554	32327	5-	02557	30227	5-	02567	30287	5-	47363	02113
333	5-	17768	00028	5-	02767	00057	50	05662	24112	53	01963	24125
334										--	48109	00049
340	53	02784	32327	5-	05687	30227	00	08490	04100	5-	08466	00016
136	86	01754	28384	86	81755	32385	8-	02866	00086	86	81755	00086
336										--	01752	32412
350	33	05653	28326	5-	05648	00088				58	05658	30186
368												
379	5-	05666	32326	61	61655	30328	5-	05646	00026	5-	05548	32128
390	7-	01754	30214	57	05654	28128	03	05650	28113	53	47364	00016
382	77	05665	32327	5-	05568	28128	5-	05557	30327	5-	08467	25127
438	5-	02857	02327							53	01523	02313
430	23	05654	04115	5-	08467	28127	50	05558	00028	5-	08476	00026
409	50	01863	05213	53	02964	01127	5-	02868	06128	54	02866	08127

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 28th October 1940.



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. 28th October, 1940.
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	Light variable winds. Mainly fair but fog in many places inland night and morning. Average temperature, some ground frost at night.
12 S.W. Scotland & Isle of Man.	Light variable wind becoming southerly light to moderate. Fair at first, occasional slight rain later. Average temperature.
13 A. W. Scotld. B.N.W.Scotland.	"
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light variable wind, becoming southerly, mainly fair. Average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 12 - 13.

GENERAL INFERENCE.

An anticyclone covering the British Isles is moving east or southeast, and disturbances in the eastern Atlantic are moving northeast.
Weather will be mainly fair and quiet generally, but there will be fog in many places tonight in England and occasional rain later in Ireland and west and northwest Scotland.

FURTHER OUTLOOK.

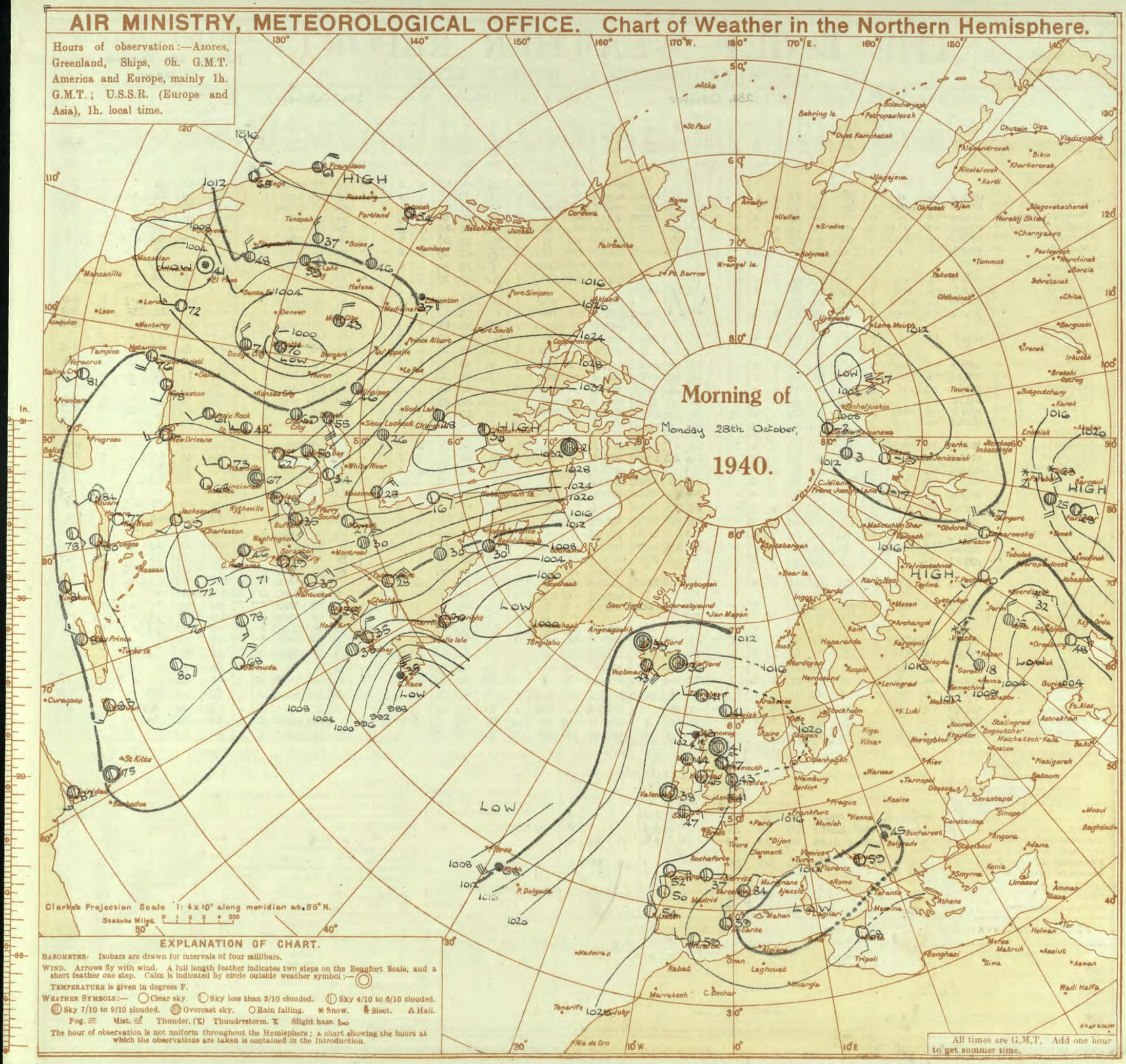
Unsettled in the northwest, mainly fair in the southeast.

Forecasts issued at 10.30 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 28th October 1940.

No 28830

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	1020·4	+6	N	1	of	41	97	3	5	–	–	10	10	2000
	S. Farnborough	226	1021·2	+6	WNW	1	bc	37	97	6	5	–	–	4-6	4-6	800
	Boscombe Down	417	1021·4	+8	–	0	m	41	85	4	5	–	–	7-8	7-8	2000
	Calshot (Sthmtn.)	8	1020·6	+2	N'W	3	m	45	85	4	–	3	–	0	9+	–
	Lympne ...	346	1019·7	0	WSW	1	m	39	97	4	–	–	–	0	0	–
	Manston ...	154	1019·3	+4	W	1	zo	43	97	6	5	–	–	1	1	2000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1019·4	+6	NNW	3	zo	39	97	5	–	4	–	0	1	–
	Gorleston ...	5	1019·5	+6	NW	2	pr	42	85	6	8	–	–	7-8	7-8	2200
	Mildenhall ...	19	1020·0	+6	NW'N	2	zo	39	97	6	–	7	–	0	2-3	–
	Cranwell ...	240	1021·2	+4	NNW	3	zo	40	97	6	5	–	–	4-6	4-6	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1021·1	+2	–	0	zo	41	85	5	5	–	–	9	9	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1021·7	+4	NNE	2	c	45	75	8	5	2	–	7-8	10	1500
	Bristol ...	209	1022·3	+6	NNW	1	zo	42	75	6	5	–	–	10	10	4000
	Portland Bill ...	32	1021·2	+12	N	2	0	46	92	7	5	–	–	10	10	2500
	Plymouth ...	82	1022·2	+2	–	0	zo	43	75	6	5	–	–	10	10	3500
	The Lizard ...	240	1021·9	+4	NNE	3	c	45	65	7	5	2	–	9	10	1500
	Scilly (St. Mary's)	163	1022·2	+6	E'S	2	c	47	65	7	8	2	–	7-8	10	1500
	Guernsey ...	175														
6	Pembroke ...	142	1022·1	+2	NE'N	1	c	47	75	8	8	2	–	7-8	9	2500
7	Holyhead ...	26	1021·8	+6	S	1	bc	45	75	8	5	3	–	2-3	2-3	5700
	Chester (Sealand)	16	1022·2	+6	–	0	zo	31	92	5	–	–	–	0	0	–
8	Manchester ...	70	1022·1	+4	NE	1	cf	31	97	2	5	–	–	7-8	7-8	3000
10	Spurn Head ...	29	1020·4	+8	NW	3	c	43	85	7	4	–	–	7-8	7-8	4000
	Catterick ...	175	1022·2	+2	NNW	1	zo	41	92	6	5	–	–	2-3	2-3	3000
	Tynemouth ...	108	1022·3	+4	NE	3	c	47	65	7	2	–	–	7-8	7-8	2500
11	St. Abbs Head	280	1022·6	+4	S	1	bc	45	85	8	4	4	–	2-3	4-6	2500
	Leuchars ...	36	1023·1	+2	NNW	1	bc	43	92	7	5	–	–	4-6	4-6	2800
12	Renfrew (Abbots I.)	19	1023·7	+2	–	0	zo	40	92	6	5	–	–	10	10	3700
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1022·3	+6	E'N	3	bc	46	92	8	4	–	–	2-3	2-3	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1023·7	+2	W	1	pr	43	85	7	5	7	–	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1023·4	+4	WNW	1	c	41	97	7	5	2	–	7-8	9+	1500
16	Lerwick ...	156	1023·5	+2	N'W	1	c	41	85	7	5	3	–	4-6	7-8	1500
17	Blacksod Point	18	1022·1	–4	NE'N	1	c	45	75	8	–	5	–	0	7-8	–
18	Malin Head ...	84	1022·4	+4	S	1	c	44	85	7	6	2	–	2-3	7-8	2500
	Aldergrove ...	268	1023·3	+6	SE	1	c	43	65	7	5	–	–	10	10	3500
19	Birr Castle ...	173	1023·3	+2	SE	1	b	27	92	8	–	–	–	0	0	–
20	Valentia Obsy.	30	1021·7	–2	–	0	zo	38	97	6	–	–	–	0	0	–
	Roches Point	22	1022·3	+2	NE	2	b	40	97	7	–	–	–	0	0	–

OBSERVATIONS at 7 hr. G.M.T. 28th 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)	1021·4	+6	–	0	zo	41	92	5	5	3	–	7-8	9+	4000	1	*
Croydon ...	1020·7	0	–	0	of	37	92	3	5	–	–	10	10	800	1	*
S. Farnborough	1021·7	+6	WNW	1	cf+	37	92	2	5	3	–	4-6	7-8	4500	1	*
Boscombe Down	1021·7	+2	–	0	zo	39	85	5	5	–	–	9+	9+	4000	0	*
Calshot (Sthmtn.)	1021·1	+6	N	3	zo	43	85	5	5	–	–	9+	9+	5100	1	§
Lympne ...	1020·7	+10	W	1	m	39	97	4	5	–	–	9	9	800	1	
Manston ...	1020·5	+4	W	2	c/pr	42	97	6	8	–	–	9+	9+	2500	*	*
Shoeburyness ...	1021·1	+10	NNW	1	F–	38	97	1	5	–	–	10	10	5150	1	*
Felixstowe ...	1021·0	+12	NNW	1	pr	40	97	6	8	–	–	9+	9+	2000	1	2
Gorleston ...																*
Mildenhall ...	1021·1	+6	N'W	1	pr	39	97	5	5	2	–	9	10	3000	1	*
Cranwell ...	1022·1	+8	NW	2	F	38	97	1	–	–	–	10	10	5150	1	
Birmingham ...	1023·1	0	NNW	1	cf	39	85	3	5	–	–	9+	9+	2500	1	*
Upper Heyford	1021·7	+4	N	1	m	40	92	4	5	–	–	9+	9+	3500	1	*
Ross-on-Wye	1021·3	0	N'W	1	zo	36	92	6	5	–	–	4-6	4-6	2500	1	*
Hartland Point	1021·0	–2	ESE	2	c	44	75	8	5	–	–	7-8	7-8	1500	0	2
Bristol ...	1022·4	+2	SE'S	1	zo	40	85	5	5	–	–	9+	9+	5700	1	*
Portland Bill ...	1021·7	–4	NNE	2	c	45	85	7	5	7	–	7-8	10	2500	0	2
Plymouth ...	1021·7	–2	NE	1	zo	39	85	7	5	–	–	4-6	4-6	4000	0	1
The Lizard ...	1021·2	0	NNE	2	c	45	75	8	8	–	–	7-8	7-8	1500	0	2
Scilly (St. Mary's)	1021·4	–2	–	0	c	45	65	8	8	2	–	7-8	9+	1800	0	1
Guernsey ...																
Pembroke ...	1021·5	–2	NE'E	2	c	46	75	8	8	3	–	4-6	7-8	4000	0	2
Holyhead ...	1021·4	–4	SE'S	2	b	40	85	8	5	3	–	2-3	2-3	4000	0	0
Chester (Sealand)	1022·3	0	–	0	m	32	92	4	5	–	–	7-8	7-8	3500	3	*
Manchester ...	1022·1	–2	E'S	1	f	35	92	2	5	–	–	9	9	4500	1	
Spurn Head ...	1021·4	+8	NW'W	2	bc	42	97	7	4	4	–	4-6	4-6	4000	1	2
Catterick ...	1022·6	+6	NNW	1	c	41	92	7	8	–	–	7-8	7-8	3000	1	*
Tynemouth ...	1022·4	+2			c	48	75	7	8	–	–	7-8		2300	1	2
St. Abbs Head	1023·0	0	NW	2	r o r o	43	92	8	5	2	–	7-8	9+	2500	1	4
Leuchars ...	1023·6	+2	WNW	1	c/d	41	92	6	5	–	–	9	9	1200	1	*
Renfrew (Abbots I.)	1023·7	+2	–	0	m/f	39	97	4	5	–	–	9	9	2500	1	*
Eskdalemuir ...	1023·1	–6	N	1	o	38	92	8	5	–	–	10	10	2500	1	
Point of Ayre ...	1022·0	–2	E	2	c	47	85	8	5	–	–	7-8	7-8	2500	0	2
Tiree ...	1020·9	–6	SSE	2	c	46	85	8	5	–	–	9+	9+	1800	0	2
Stornoway ...	1022·4	–2	S	3	c	46	55	8	5	7	–	7-8	9+	1500	1	2
Dalwhinnie ...	*	*	N	1	o	35	97	8	5	–	–	10	10	2500	1	*
Aberdeen ...	1023·9	+2	NW'N	1	c/f	40	97	6	7	–	–	9+	9+	2500	1	1
Wick ...	1023·2	–2	E	3	c	44	92	8	5	7	8	7-8	9+	1500	1	2
Lerwick ...	1023·5	0	S	1	c	41	85	8	5	7	–	7-8	9+	1500	0	*
Blacksod Point	1019·4	–10	SE	2	b	43	75	8	–	4	–	0	1	–	0	2
Malin Head ...	1021·6	–2	S	2	bc	37	85	8	4	–	–	2-3	2-3	4000	0	1
Aldergrove ...	1022·3	–6	ENE	1	c	40	75	7	5	–	–	9+	9+	5000	1	*
Birr Castle ...	1022·2	–4	SSE	1	b	45	97	7	–	–	–	0	0	–	1	*
Valentia Obsy.	1019·0	–14	SE	4	bc	48	75	8	5	–	–	4-6	4-6	4000	0	1
Roches Point	1021·0	–6	NE	2	b	38	97	7	5	–	–	Tr	Tr	2500	1	2

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 27th Hrs. (36)
London (Kew)	49	41	31	–	–	2·0
Croydon ...	50	36	33	–	–	0·8
S. Farnborough	49	36	27	–	–	2·8
Boscombe Down	46	39	35	–	–	1·5
Calshot (Sthmtn.)	51	41	37	–	–	5·8
Lympne ...	47	35	28	0·4	Tr	1·8
Manston ...	*	*	*	*	*	*
Shoeburyness ...	51	35	27	–	Tr	1·7
Felixstowe ...	53	37	34	–	0·4	5·3
Gorleston ...				Tr		
Mildenhall ...	50	38	29	0·2	1	0·0
Cranwell ...	49	37	32	Tr	Tr	2·2
Birmingham ...	47	39	32	*	–	0·2
Upper Heyford	47	39	37	–	–	*
Ross-on-Wye	48	36	28	–	1	0·3
Hartland Point	51	44	41	–	–	6·8
Bristol ...	48	38	33	–	–	0·6
Portland Bill ...	50	42	*	–	–	*
Plymouth ...	51	39	31	–	–	3·8
The Lizard ...	53	42	*	3	–	8·9
Scilly (St. Mary's)	50	44		–	–	2·9
Guernsey ...						
Pembroke ...	49	45	*	–	–	0·0
Holyhead ...	49	39	31	–	–	0·1
Chester (Sealand)	50	28	21	–	–	3·4
Manchester ...	50	29	22	–	–	1·2
Spurn Head ...	51	41	*	3	1	2·4
Catterick ...	47	40	35	0·2	0·4	1·8
Tynemouth ...	47	44	43	2	1	*
St. Abbs Head	46	43	*	1	1	*
Leuchars ...	48	40	33	Tr	0·6	2·0
Renfrew (Abbots I.)	46	38	32	*	0·1	0·0
Eskdalemuir ...	47	34	28	Tr	0·1	3·2
Point of Ayre ...	49	43	*	–	–	7·4
Tiree ...	48	41	*	–	–	0·3
Stornoway ...	47	41	*	0·1	0·1	3·7
Dalwhinnie ...	45	33	29	–	0·1	1·2
Aberdeen ...	47	39	35	0·1	Tr	1·6
Wick ...	48	38	*	–	0·1	
Lerwick ...	50	40	*	Tr	–	3·2
Blacksod Point	50	41	*	–	–	*
Malin Head ...	49	36	*	0·3	–	1·7
Aldergrove ...	48	38	29	–	–	0·2
Birr Castle ...	52	24	20	–	–	5·3
Valentia Obsy.	55	36	31	–	Tr	7·4
Roches Point	51	37	*	–	0·1	*

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	cm o bc cz o	cz o	cm o w	49	41	31	–	–	2·0	*	*	4
Croydon ...	217	cfm	czmf	bc f cf	50	36	33	–	–	0·8	*	*	3
Greenwich (Royal Observatory) ...	149	cbem o	bcm o c	cwm	50	39	30	–	Tr	1·6	72	88	4
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	52	41	35	–	–		69	91	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*									*
Camden Square ...	110			*						*	*		*
Kensington ...	80	bc	bcc	*	51	40	28	–	–		77	87	*
Hampstead Observatory ...	450	bc	c	bc	50	40	32	–	–		*	96	*

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	7-13h 27th	<0·1	3-5h 28th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...														

‡ 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 ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

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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.

BRITISH SECTION

Tuesday 29th October 1940.

No. 28831

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)...	1021·1	-4	E	2	cf+	47	75	3	5	3	-	4-6	7-8	4000
	Croydon ...	1021·0	-6	NE	2	z₀	47	75	5	2	6	-	4-6	4-6	2500
	S. Farnborough	1021·0	-10	ENE	1	z₀	50	65	6	8	6	-	4-6	4-6	3500
	Boscombe Down	1021·4	-6	NNE	2	z₀	47	65	6	8	3	-	7-8	9	3500
	Calshot (Soton.)	1020·0	-6	-	0	z₀	49	75	6	2	3	-	2-3	7-8	3500
	Lympne ...	1020·1	-4	ESE	2	c	47	65	7	7	-	-	7-8	7-8	2500
	Manston ...	1021·2	-6	ESE	2	c	46	75	8	8	6	-	4-6	9+	2500
2	Shoeburyness ...	1021·4	-2	N'W	1	o	47	75	6	5	3	-	4-6	9+	2500
	Felixstowe ...	1021·6	-4	N'W	1	z₀	44	92	6	8	-	-	9+	9+	2500
	Gorleston ...	1022·2	-2	E	3	bc	46	65	7	8	-	-	4-6	4-6	2500
	Mildenhall ...	1021·8	-2	ENE	2	c	47	75	8	7	7	-	7-8	9	3000
	Cranwell ...	1022·9	0	SE	3	c	45	85	7	5	-	-	9	9	1500
3	Birmingham	1022·1	0	-	0	z₀	46	55	5	5	-	-	9+	9+	2500
	Upper Heyford	1021·5	-4	NNE	2	c	48	65	7	8	3	-	7-8	9+	2500
4	Ross-on-Wye ...	1021·7	-6	NE	2	z₀	45	75	6	5	-	-	10	10	4000
5	Hartland Point	1020·5	-2	ESE	2	bc	52	55	8	1	4	-	2-3	4-6	2500
	Bristol ...	1022·0	-6	ESE	1	z₀	47	75	6	5	3	-	7-8	9	5000
	Portland Bill ...	1020·6	-12	NE	2	c	49	85	8	5	-	-	7-8	7-8	4000
	Plymouth ...	1020·9	-10	S'W	1	bc	54	35	8	1	-	-	2-3	2-3	4000
	The Lizard ...	1020·1	-4	E'S	2	c	54	55	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1019·9	-12	SE'E	3	bc	54	45	8	8	3	-	4-6	4-6	1800
	Guernsey ...														
6	Pembroke ...	1020·8	-4	ESE	3	bc	52	65	7	2	-	-	4-6	4-6	3000
7	Holyhead ...	1021·1	-6	SW'S	1	c	50	65	8	7	3	-	2-3	7-8	4000
	Chester (Sealand)	1021·9	-6	SSE	1	z₀	48	65	6	5	-	-	7-8	7-8	5000
8	Manchester ...	1021·9	-6	-	0	f-	43	92	2	5	-	-	9+	9+	4500
10	Spurn Head ...	1023·1	+2	E'S	4	c	47	55	8	2	6	-	4-6	7-8	2500
	Catterick ...	1022·8	-2	SSE	3	c/pr	46	92	6	2	3	-	4-6	9	3000
	Tynemouth ...	1022·6	-2	S	4	c	50	75	8	8	-	-	7-8	7-8	2300
11	St. Abbs Head	1022·8	-6	E	1	c	47	75	9	5	3	-	7-8	9	2000
	Leuchars ...	1023·1	-4	E	1	c	47	85	7	8	7	-	7-8	9+	2200
12	Renfrew (Abbots I.)	1022·7	-10	SE'E	2	c/pr	48	65	6	5	-	-	9+	9+	4500
	Eskdalemuir ...	1022·2	-8	E	2	c	45	85	8	5	-	-	10	10	1500
	Point of Ayre ...	1021·7	-2	SSE	3	bc	53	92	8	5	-	-	2-3	2-3	2500
13A	Tiree ...	1020·0	-4	S'E	4	bc	50	75	7	5	-	-	4-6	4-6	2500
13B	Stornoway ...	1020·4	+8	S	5	c	48	35	8	5	7	-	9	10	2500
15	Dalwhinnie ...	1023·4	-4	S	3	o	42	75	8	8	-	-	10	10	2500
	Aberdeen ...	1023·3	-2	S	3	pr	46	75	6	9	-	-	9+	9+	2500
	Wick ...	1022·5	-4	SW	3	c	47	65	9	5	7	8	7-8	9+	1500
16	Lerwick...	1022·6	-10	S	3	c	45	85	8	5	7	·	4-6	7-8	1500
17	Blacksod Point...	1017·3	-18	SE	3	bc	50	75	8	-	4	-	0	2-3	-
18	Malin Head ...	1020·2	-6	SSE	3	c	48	65	8	5	7	-	4-6	7-8	5700
	Aldergrove ...	1021·0	-8	SE'S	2	z₀	49	55	6	5	-	-	9+	9+	4500
19	Birr Castle ...	1019·4	-10	SSE	1	b	51	65	7	-	-	-	0	0	-
20	Valentia Obsy. †	1017·2	-12	SE'E	4	c	51	65	8	7	-	1	9	9+	4000
	Roches Point ...	1018·9	-18	SE	4	c	52	65	8	8	-	-	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 28th 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)	1021·3	+4	ENE	2	z	45	85	5	5	-	-	4-6	10	2500	1	*
Croydon	1020·9	0	E	1	m	43	92	4	5	-	-	10	10	3000	1	*
S. Farnborough	1021·0	+2	NE'E	1	cf	45	85	3	5	-	-	9+	9+	3000	0	*
Boscombe Down	1021·1	+4	-	0	z	40	85	5	4	-	-	2-3	4-6	4000	0	*
Calshot (Soton.)	1020·4	-2	NNE	3	m	46	85	4	5	3	-	4-6	9+	6000	1	1
Lympne	1021·4	+4	ENE	1	z	41	85	6	5	-	-	9+	9+	5500	1	§
Manston	1021·8	0	ESE	2	c	44	75	7	5	-	-	10	10	2000		*
Shoeburyness	1022·1	+0	E	2	c	44	85	5	5	-	-	10	10	2500	1	*
Felixstowe	1022·0	+2	E'S	3	c	45	75	7	8	-	-	9+	9+	2500	1	1
Gorleston	1022·6	+2	SE'E	4	c	46	65	7	5	-	-	9+	9+	2300	1	2
Mildenhall	1022·0	+2	E'S	2	bc	40	85	7	5	3	-	4-6	4-6	4000	1	*
Cranwell	1022·9	+2	E'N	2	z₀	38	85	6	-	4	-	0	1	-	1	*
Birmingham	1021·6	-2	E	2	z	43	85	5	5	3	-	4-6	9	2500	1	*
Upper Heyford	1021·3	-2	NE	2	id₀	44	85	6	5	-	-	9+	9+	4500	1	*
Ross-on-Wye	1021·1	-6	ENE	1	cf+	43	85	3	5	-	-	7-8	7-8	2500	1	*
Hartland Point	1019·5	0	ESE	2	bc	48	65	8	1	4	-	2-3	4-6	2500	0	2
Bristol	1021·6	+6	-	0	z₀	42	85	5	5	-	-	1	1	5000	1	*
Portland Bill	1020·1	-4	NNE	2	c	46	85	8	5	-	-	10	10	4000	0	2
Plymouth	1020·2	0	E	1	z	44	75	6	5	-	-	2-3	2-3	5000	0	1
The Lizard	1018·4	-8	SE	3	c	49	75	8	8	2	-	3	10	2000	0	2
Scilly (St. Mary's)	1018·2	-8	SE	4	c	50	75	7	3	6	-	4-6	7-8	1200	0	2
Guernsey																
Pembroke	1019·7	-6	SE	3	bc	50	65	7	2	4	-	2-3	2-3	3000	0	2
Holyhead	1019·9	0	E'S	2	c	48	75	7	5	3	-	7-8	9+	4500	0	0
Chester (Sealand)	1021·3	-2	-	0	cf	40	85	3	5	3	-	9	9	5000	1	*
Manchester	1021·5	-2	SE'E	3	of-	45	85	3	5	-	-	10	10	3200	0	*
Spurn Head	1022·6	0	E	4	c	46	55	8	4	-	-	7-8	7-8	4000	0	3
Catterick	1022·9	0	-	0	z	43	97	6	5	-	-	9+	9+	4000	1	
Tynemouth	1022·6	+2	S	2	z	46	75	5	8	-	-	7-8	7-8	2800	1	2
St. Abbs Head	1021·4	-6	S	3	c	45	85	8	5	3	-	4-6	9	2000	1	2
Leuchars	1021·5	-6	ENE	2	bc	45	92	7	5	3	-	2-3	4-6	4000	1	*
Renfrew (Abbots I.)	1020·8	-6	SE'E	2	of+	46	75	3	5	-	-	10	10	4000	1	*
Eskdalemuir	1021·3	-2	-	0	c	42	97	6	5	-	-	10	10	1500	1	*
Point of Ayre	1020·6	0	S'E	3	c	48	65	7	5	2	·	7-8	10	2500	0	2
Tiree	1017·4	-6	SE'E	4	c	48	85	7	5	-	-	9+	9+	2100	0	3
Stornoway	1018·4	-8	SSE	4	c	48	65	7	5	7	-	7-8	10	1900	1-	3
Dalwhinnie	1020·6	-4	S	2	c	40	75	8	8	-	-	10	10	2500	0	*
Aberdeen	1022·1	-4	S	2	c	46	75	6	8	-	-	7-8	7-8	1500	1	1
Wick	1020·7	-10	S	4	c	47	75	8	5	7	8	7-8	9+	1500	1	2
Lerwick	1021·2	-4	SSW	3	c	44	85	8	8	7	-	4-6	7-8	1500	1	*
Blacksod Point	1013·7	-20	SE	3	c	49	75	7	-	5	2	0	9	-	0	3
Malin Head	1017·6	-8	S'E	1	c	47	65	8	5	-	·	9	9	5700	0	0
Aldergrove	1018·8	-10	SE'E	1	bc	48	85	7	5	7	·	2-3	2-3	4000	1	*
Birr Castle	1017·5	-6	SSE	1	bc	43	85	8	5	-	-	2-3	2-3	2500	1	*
Valentia Obsy. †	1013·0	-20	SE'S	6	c	51	75	8	7	-	7	7-8	10	4000	0	2
Roches Point	1016·2	-14	S'E	5	bc	51	65	8	5	-	4	4-6	4-6	2500	1	4

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 28th (37)	13h.—18h. 28th (38)	18h. 28th to 1h. 29th (39)	1h.—7h. 29th (40)
London (Kew)	bcemcf	cffgemcm	cbcm₀	bcbffx
Croydon	cfcm	bczcm	cfbcm	m
S. Farnborough	cfbcm₀	bcz cf	o	bcm₀
Boscombe Down	cm₀	bcmzbm	bcm₀	cm₀bx
Calshot (Soton.)	cm₀bcm₀	bcprcz	cm₀d₀d₀	cpr₀bcm₀
Lympne	c	ocz	cbcbzw	bzx
Manston	c	bccirc	cirobm₀	bz₀bcz₀
Shoeburyness	cir₀mc	crrirm	cm₀bc	bcbcc
Felixstowe	cpr₀rrcm₀	cm₀pr₀	cpr₀	cyc
Gorleston	cbc	bcc	cz₀	cz₀
Mildenhall	cpr₀m₀c	cbc	bc	bcm₀xcm₀
Cranwell	cfid₀m₀c	cbm₀	bm₀bm	bmlf,cm₀
Birmingham	fcz	cbccz	c	cbcmx
Upper Heyford	cmm₀c	ccidm₀	d₀cbcm₀	bc
Ross-on-Wye	cz₀	cz bcm	cfbcm	bcm₀x
Hartland Point	cbcy	bc	bcb	bbcc
Bristol	cm₀mfcm₀	cz, bm	b	bfmx
Portland Bill	c	bcc	bcc	cpr
Plymouth	bcmbz₀b	bybcybc	bz₀bcz₀	cz₀bz₀
The Lizard	cbccy	c	bc	bcc
Scilly (St. Mary's)	cbcy	bccbc	cbc	bcc
Guernsey				
Pembroke	cbcz₀	bc	bc	cbccq
Holyhead	bbc	bcc	cb	bwm₀bc
Chester (Sealand)	mxcbcm₀z₀	bccz bm	cbcfmc	cbcm₀c
Manchester	cff	czzff	fbcmbz₀x	cm₀bmw
Spurn Head	c	c	c	c
Catterick	m₀pr₀cm₀	ccm	cm₀bcm	bm₀xbcfx
Tynemouth	cpc	c	cbc	bccbc
St. Abbs Head	cir₀	r₀c	cbc	bc
Leuchars	c	cbcw	cwbccm₀	cm₀bm₀b
Renfrew (Abbots I.)	cid₀ffz₀	cmmff	m	cm₀cz₀
Eskdalemuir	cr₀r₀	c	cm₀	cbcbx
Point of Ayre	cbc	bcc	c	cbc
Tiree	bcb		c	c
Stornoway		c	c	c
Dalwhinnie	co	co		oc
Aberdeen	bccpr₀	cprz	pr₀bc	bcybc
Wick		c	cbcq	bcq
Lerwick	c	cpp	cpr	cpr
Blacksod Point	bc	c	cq	rrcq
Malin Head	bccc	c	cbcbc	bcc
Aldergrove	cy		bcbm₀wk	cbcc
Birr Castle	b	bc	b	c
Valentia Obsy. †	c	cyc	cyc	cir₀ rr
Roches Point	bcc	cbc	c	cir₀

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.

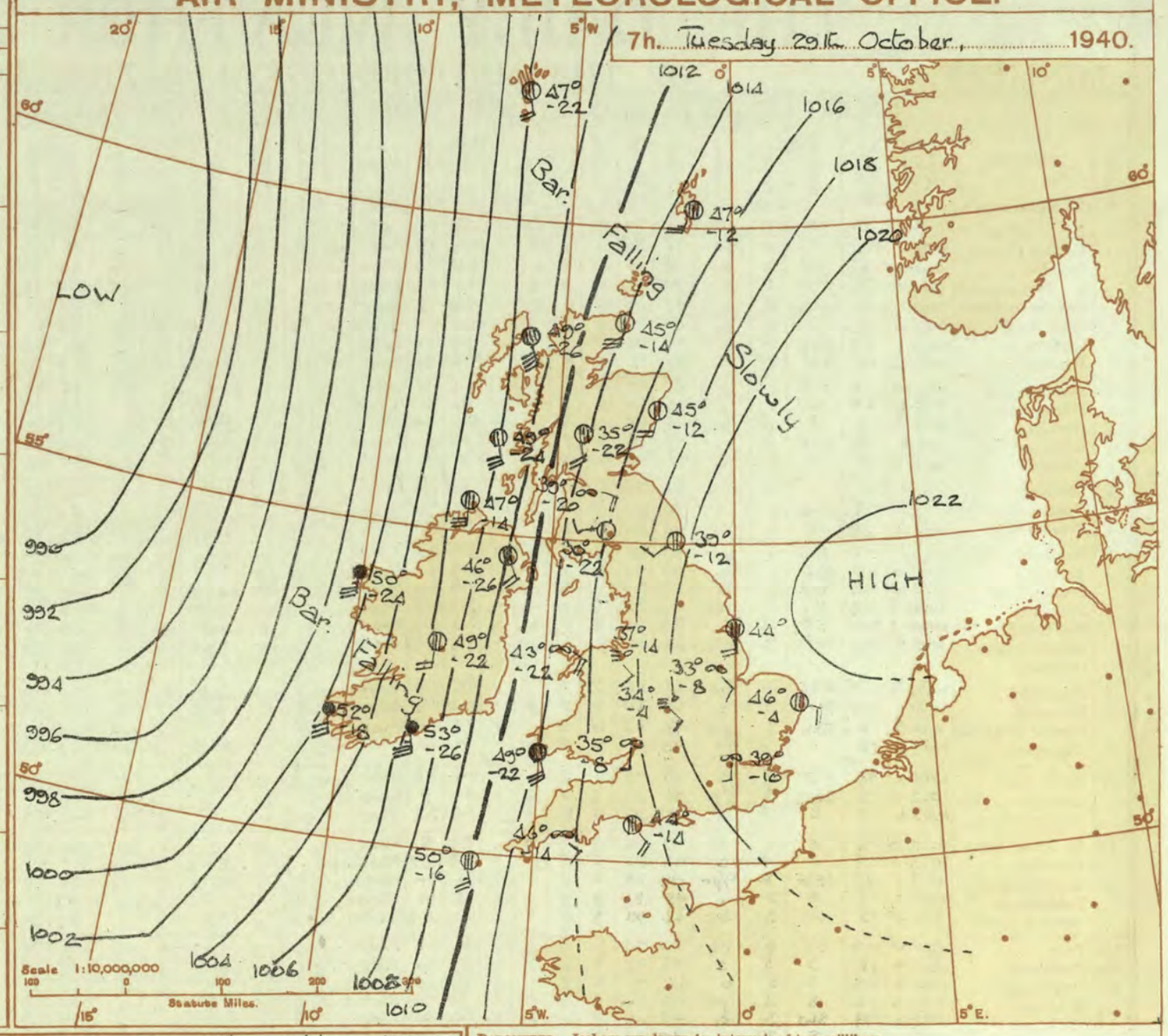
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 28th October			18h. G.M.T.			01h. G.M.T. 29th 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
109 87	02966	18387	5-	02866	18326	50	01753	18413	51	02655	17517
115 53	02944	16327	53	02844	14327	51	01753	16323	55	01754	16415
203											
206 5-	02967	00027	5-	02867	12227	5-	00862	12122	57	01764	16314
210 7-	81867	16187	5-	02855	16125	50	00862	12202	10	01861	14413
220											
230 5-	02657	12127				5-	02648	14228	5-	05648	12328
245 8-	21766	22287	83	02855	16127	5-	02766	14426	70	01753	51513
260 83	21853	08157	5-	47377	00027	5-	02376	14316	00	00830	12202
277 5-	02967	12427	7-	02766	13416	5-	05668	14328	55	02763	14525
279 5-	02756	04226									
285 23	02746	12327	8-	02737	08427				40	01744	04314
288 8-	25765	14385	5-	02761	14226	5-	01764	12324	50	00762	14222
273									53	01553	12605
301 5-	05665	00085	5-	08468	12128	5-	05565	10215	5-	05568	12418
321			50	05662	08182	50	08463	00013	5-	41565	12245
299 8-	01745	12415	50	01744	14314	5-	05645	10315			
292 57	61645	12328	50	05574	12164	5-	05658	00018	5-	04455	12115
310			--	02625	08423				--	46109	20443
316 8-	05557	08227	40	47361	04111	50	00561	00001	50	45372	08142
333 45	17862	08214	53	02734	00015	00	00730	12400	03	01990	13605
334	05554	10114							--	01532	18404
340 20	05664	14214	5-	05667	12127	5-	05566	08416	04	45330	14342
136 73	01864	07314				5-	05657	12117	5-	05668	09228
336	01752	04413	--	05642	08415				--	05533	04428
350			5-	05667	08227						
368											
379 5-	05667	02227	5-	05662	04226	50	05653	04113	03	05530	06213
390 87	35655	05288	5-	05556	06126	53	47354	08107	00	45330	00040
382 87	05665	04127	5-	05577	05127	50	05564	07214	03	05630	10312
438									50	01754	10314
430 23	01754	02114	43	05565	00015	5-	08468	08228	50	05652	08202
409 14	00863	08203	04	00730	10301	5-	02768	08328	12	02862	11427

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 29th October, 1940.



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. 29th October 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate southeast wind, freshening later on coast. Mainly fair, but occasional slight showers near coast. Rather cold.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate or fresh southeast to southwind, increasing strong to gale at times on coasts. Cloudy, occasional slight rain. Average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1-4.
12 S.W. Scotland & Isle of Man. 13 {A. W. Scotld. B.N.W.Scotland.} 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Strong to gale southerly wind. Becoming cloudy, occasional rain or showers later; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Strong to gale southerly wind; cloudy, intermittent rain or showers: mild.

GENERAL INFERENCE.

An anticyclone is situated on the continent, and an extensive area of low pressure in the Atlantic is spreading slowly eastwards over the British Isles. Weather will be mainly fair or fine in eastern England, but cloudy conditions with occasional rain or showers in the extreme west will extend slowly to western England and Scotland. Southerly winds will reach gale force temporarily in the west and north of the British Isles.

FURTHER OUTLOOK.

Mainly similar, but rain tending to spread gradually eastwards.

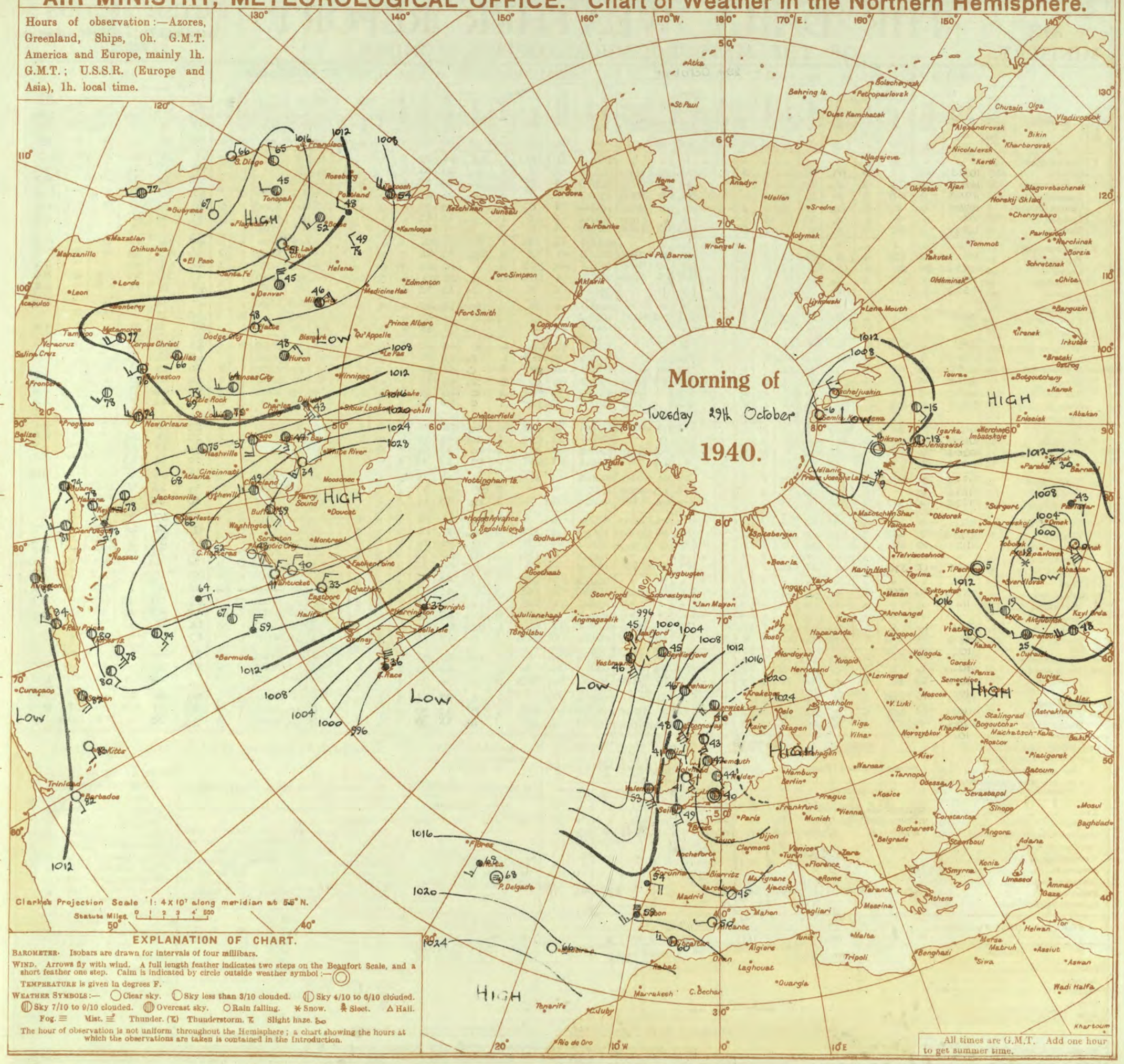
Gale warnings issued at 1950 on 28/10/40 in districts 17, 19 and 20; at 0330 on 29/10/40 in districts 13(a+b), 17 & 18, and at 0525 on 29/10/40 in districts 5, 6, 7, 8, 11, 12, 15 & 16.

Forecasts issued at 10.30 L.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 29th October 1940.

No. 28831.

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)	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	1022·3	+10	–	0	m	40	85	4	5	–	–	2-3	2-3	3000
	S. Farnborough	226	1021·0	–4	E'S	2	zo	40	85	6	5	–	–	7-8	7-8	2500
	Boscombe Down	417	1020·3	–4	E'N	3	zo	39	85	5	5	–	–	4-6	4-6	3000
	Calshot (Sthmtn.)	8	1020·0	–6	E	3	ido	45	85	5	5	–	–	10	10	1600
	Lympne ...	346	1021·7	0	E	1	zo	39	75	5	5	–	–	Tr	Tr	4000
	Manston ...	154	1022·1	+2	SE	3	zo	41	75	6	5	–	–	2-3	2-3	3000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1022·0	–2	SSE	4	c	46	55	7	8	–	–	10	10	3500
	Gorleston ...	5	1022·6	0	SE	4	c	47	75	6	5	–	–	10	10	1500
	Mildenhall ...	19	1022·1	0	ESE	2	zo	33	85	6	5	–	–	4-6	4-6	5000
	Cranwell ...	240	1022·7	–2	–	0	m	30	92	4	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1021·1	–4	E'S	2	zo	39	97	5	5	–	–	2-3	2-3	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1018·1	–10	ESE	4	b	40	75	8	–	–	–	0	0	–
	Bristol ...	209	1021·0	–2	–	0	m	34	92	4	–	–	–	0	0	–
	Portland Bill ...	32	1019·0	–10	NE	3	c	45	85	7	5	–	–	7-8	7-8	4000
	Plymouth ...	82	1018·8	–10	E	2	zo	39	75	6	5	–	–	2-3	2-3	4000
	The Lizard ...	240	1017·0	–8	SSE	4	bc	49	75	8	8	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	1016·5	–10	SSE	4	bc	49	65	8	8	6	–	2-3	4-6	1800
	Guernsey ...	175														
6	Pembroke ...	142	1017·5	–6	SE	5	bcq	50	65	7	2	–	–	2-3	2-3	4000
7	Holyhead ...	26	1018·0	–14	SE'E	3	b	41	85	7	–	–	–	0	0	–
	Chester (Sealand)	16	1020·6	–6	SSE	1	zo	40	75	6	5	–	–	7-8	7-8	3000
8	Manchester ...	70	1021·1	–8	E'N	1	zo	37	85	6	–	3	–	0	2-3	–
10	Spurn Head ...	29	1022·2	0	SSE	2	c	44	75	7	5	–	–	9+	9+	4000
	Catterick ...	175	1022·0	–10	–	0	[illegible]	33	97	4	5	–	–	2-3	2-3	4000
	Tynemouth ...	108	1022·5	–4	SW	2	bc	42	75	6	2	–	–	4-6	4-6	2800
11	St. Abbs Head	280	1021·1	–4	SSW	4	bc	39	75	8	4	4	–	4-6	4-6	2500
	Leuchars ...	36	1020·3	–2	SSE	3	zo	44	75	6	5	–	–	9+	9+	3500
12	Renfrew (Abbots I.)	19	1019·1	–10	SE	3	zo	44	75	5	5	–	–	10	10	3500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1018·4	–12	SSE	5	c	47	85	7	5	2	–	4-6	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1015·3	–26	SSE	7	c	48	65	7	5	7	–	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1017·6	–16	S	5	bcq	45	92	7	5	1	–	2-3	2-3	1500
16	Lerwick ...	156	1018·6	–14	SW	4	spr	46	85	7	8	2	–	7-8	10	800
17	Blacksod Point	18	1007·1	–28	SSE	6	oq	51	75	7	5	–	–	10	10	800
18	Malin Head ...	84	1014·0	–6	E	2	c	41	75	7	8	–	–	7-8	7-8	4000
	Aldergrove ...	268	1016·0	–22	SE	4	c	45	75	7	5	–	–	10	10	4500
19	Birr Castle ...	173	1013·1	–16	SSE	3	b	45	75	8	–	–	–	0	0	–
20	Valentia Obsy.	30	1008·1	–22	SSE	6	c	53	65	8	5	–	–	2-3	5	4000
	Roches Point	22	1012·6	–14	S'E	7	c	50	75	8	8	–	–	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 29th 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)	1020·4	0	NE	1	bf	34	92	3	–	–	–	0	0	–	1	*
Croydon ...	1020·8	–10	S	1	zo	39	85	5	–	–	1	0	Tr	–	1	*
S. Farnborough	1020·3	–4	E	2	zo	34	85	6	–	3	1	0	2-3	–	1	*
Boscombe Down	1019·2	–2	E	3	zo	36	85	6	5	–	–	4-6	4-6	5000	0	*
Calshot (Sthmtn.)	1019·0	–4	E	4	zo	42	75	6	5	3	–	2-3	4-6	5700	1	3
Lympne ...	1020·8	–6	E	1	zo	35	85	6	5	–	–	Tr	Tr	4000	1	*
Manston ...	1020·5	–4	E	2	zo	41	65	6	5	–	–	4-6	4-6	3500	*	*
Shoeburyness ...	1020·9	–6	SSE	1	bc	37	85	5	5	–	–	4-6	4-6	4000	1	*
Felixstowe ...	1021·0	+2	SE	4	c/pr	45	65	7	8	–	–	9+	9+	3000	1	2
Gorleston ...	1021·4	–4	SE'E	4	c	46	55	7	8	–	–	7-8	7-8	1500	0	2
Mildenhall ...	1020·9	–4	SE'E	2	zo	38	75	6	5	2	–	7-8	10	3500	1	*
Cranwell ...	1021·4	–8	SE	2	zo	33	92	6	5	–	–	10	10	1500	1	*
Birmingham ...	1019·7	–4	SE	2	m	34	97	4	5	3	–	2-3	2-3	2500	1	*
Upper Heyford	1020·3	–4	SE	2	zo	35	85	6	–	3	5	0	2-3	–	0	*
Ross-on-Wye	1018·7	–8	S	1	zo	35	65	6	5	–	–	9+	9+	2500	1	*
Hartland Point	1015·2	–12	ESE	4	c	42	92	8	5	6	–	2-3	9	2500	0	2
Bristol ...	1018·6	–10	SE'S	1	zo	53	92	6	5	–	–	Tr	Tr	4000	1	*
Portland Bill ...	1016·2	–14	SE	4	c	44	85	7	5	–	–	10	10	2500	1	3
Plymouth ...	1016·2	–14	SE	2	zo	46	75	7	5	–	–	10	10	3500	0	1
The Lizard ...	1014·7	–12	SSE	5	c	50	75	8	8	6	–	7-8	7-8	2300	0	3
Scilly (St. Mary's)	1013·3	–16	SSE	5	c	50	65	8	8	7	–	4-6	9+	1500	0	3
Guernsey ...																
Pembroke ...	1013·8	–20	SSE	6	cq	49	75	7	5	6	–	4-6	9+	2500	0	3
Holyhead ...	1014·2	–22	ESE	4	zo	43	85	6	–	5	5	0	4-6	–	0	1
Chester (Sealand)	1017·0	–14	SE	2	m	37	85	4	5	–	–	10	10	3200	1	*
Manchester ...	1018·4	–12	ESE	3	m	37	85	4	–	–	–	0	0	–	1	*
Spurn Head ...	1020·5	–12	S'E	4	c	44	75	7	5	–	–	9+	9+	4000	0	3
Catterick ...	1020·7	–4	–	0	bf	26	97	1	5	3	–	1	2-3	7000	0	*
Tynemouth ...	1020·4	–12	SW	2	bc	39	75	5	2	–	–	2-3	2-3	2800	1	1
St. Abbs Head	1017·4	–16	S	4	bc	38	75	7	4	4	–	2-3	4-6	2500	0	1
Leuchars ...	1017·2	–18	SSE	3	zo	37	85	7	–	–	–	0	0	–	1	*
Renfrew (Abbots I.)	1015·6	–20	ESE	4	zo	39	75	6	5	–	–	9+	9+	3700	1	*
Eskdalemuir ...	1017·5	–22	WSW	2	b	30	85	7	5	–	–	1	1	4000	0	*
Point of Ayre ...	1014·6	–22	S	6	bc	45	85	7	8	–	–	4-6	4-6	1500	0	3
Tiree ...	1007·8	–24	SE'S	6	c	49	85	7	5	–	–	9+	9+	1800	0	4
Stornoway ...	1009·7	–26	SSE	8	c	49	65	7	5	7	–	9	9+	2500	1	4
Dalwhinnie ...	1014·6	–22	SSE	4	c	35	75	7	5	–	–	9+	9+	2500	0	*
Aberdeen ...	1016·8	–12	SSW	4	bc	45	65	7	8	–	–	4-6	4-6	2500	1	2
Wick ...	1014·2	–14	SSW	6	bcq	45	65	7	5	4	8	2-3	4-6	1500	1	3
Lerwick ...	1015·1	–12	SW'S	5	c	47	75	7	8	7	–	7-8	9+	800	1	*
Blacksod Point	1000·6	–24	S	7	rorq	50	97	6	6	–	–	10	10	<150	1	3
Malin Head ...	1006·4	–14	S	6	c	47	75	7	5	8	–	4-6	7-8	1500	0	3
Aldergrove ...	1011·1	–26	SE'S	4	c	46	75	7	5	7	–	9	9+	2000	1	*
Birr Castle ...	1007·6	–22	S	4	c	49	85	8	5	1	–	7-8	10	2500	1	*
Valentia Obsy.	1003·5	–18	SSE	6	rr	52	97	5	6	–	–	10	10	800	1	4
Roches Point	1007·4	–26	S'E	7	iro	53	85	7	6	2	–	7-8	9+	1500	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)	Night 18h–7h mm. (35)	Sunshine 28th Hrs. (36)
London (Kew)	48	33	26	–	Tr	0·7
Croydon ...	49	32	28	–	–	3·5
S. Farnborough	52	34	25	–	–	2·5
Boscombe Down	47	35	31	–	–	0·0
Calshot (Sthmtn.)	51	41	40	Tr	0·2	0·9
Lympne ...	47	34	21	–	–	2·3
Manston ...	*	*	*	*	*	*
Shoeburyness ...	48	36	27	3	–	0·4
Felixstowe ...	46	43	32	4	Tr	0·0
Gorleston ...	48	45	42	–	–	3·5
Mildenhall ...	48	31	23	0·3	Tr	0·0
Cranwell ...	47	28	18	0·2	–	0·8
Birmingham ...	47	34	28	*	–	0·7
Upper Heyford	49	35		Tr	Tr	*
Ross-on-Wye	47	34	25	–	–	0·4
Hartland Point	53	39	36	–	–	7·0
Bristol ...	49	32	*	–	–	1·3
Portland Bill ...	49	43	*	–	1	*
Plymouth ...	55	37	31	–	–	8·0
The Lizard ...	55	46	*	–	–	6·4
Scilly (St. Mary's)	55	48	*	–	–	5·9
Pembroke ...	53	45	*	–	–	7·1
Holyhead ...	53	39	34	–	–	5·0
Chester (Sealand)	50	35	29	–	–	1·5
Manchester ...	47	35	25	–	–	0·0
Spurn Head ...	48	43	*	1	–	4·0
Catterick ...	51	26	19	0·1	–	3·0
Tynemouth ...	50	38	35	Tr	–	*
St. Abbs Head	48	37	*	1	–	*
Leuchars ...	48	36	29	0·2	–	0·1
Renfrew (Abbots I.)	48	37	31	0·1	–	0·5
Eskdalemuir ...	46	28	23	Tr	–	0·2
Point of Ayre ...	54	45	*	–	–	3·3
Tiree ...	(55)	46	*	–	–	1·2
Stornoway ...	48	47	*	Tr	1	9·2
Dalwhinnie ...	42	35	32	–	–	0·2
Aberdeen ...	48	43	39	1	0·3	1·2
Wick ...	48	44	*	Tr	–	*
Lerwick ...	47	44	*	Tr	1	2·1
Blacksod Point	51	46	*	–	0·1	*
Malin Head ...	49	39	*	–	–	2·9
Aldergrove ...	50	35	29	–	–	0·5
Birr Castle ...	52	41	37	–	–	5·0
Valentia Obsy.	53	51	49	–	5	0·0
Roches Point	53	50	*	Tr	0·4	*

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.)	Afternoon.	Night.	Temperature. Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall. Day. mm.	Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	9h. G.M.T. % (To-day.)	Visibility 9h.
Kew ...	18	bccmcf	pff, mcm	bffx	48	33	26	–	Tr	0·7	*	*	3
Croydon ...	217	cfcm	bcz, fbc	m	49	32	28	–	–	3·5	*	*	3
Greenwich (Royal Observatory) ...	149	cm	c	cbmx	49	30	19	–	Tr	1·1	78	65	4
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*									*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*									*
Camden Square ...	110			*						*	*		*
Kensington ...	80	bcm	cm	*	48	34	21	–	–		87	56	*
Hampstead Observatory ...	450										*		*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 29th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·2	14h 28th	<0·1	0–4h 29th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...											*	*		

‡ 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.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Preciptious.
4	Rough.	9	Confused.

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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.

BRITISH SECTION

Wednesday 30th October 1940.

No. 28831

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 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)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018.9	-20	SE'E	3	bc	46	55	7	1	1	1	2-3	2-3	2500
	Croydon	1018.8	-10	E	3	bc	50	45	7	1	-	-	2-3	2-3	4000
	S. Farnborough	1018.7	-12	S	3	bc	48	55	7	1	5	-	2-3	4-6	3000
	Boscombe Down	1017.7	-10	SE	4	z	46	65	6	-	-	6	0	7-8	-
	Calshot (Soton.)	1018.2	-6	SE'S	4	c	49	65	7	1	-	6	1	7-8	3500
	Lympne	1019.4	-10	E	2	bc	44	55	7	1	-	-	4-6	4-6	2500
	Manston			ESE	3	bc			8	1	-		2-3	2-3	3000
2	Shoeburyness	1019.6	-10	SE	1	bc	48	85	8	8	-	-	4-6	4-6	4000
	Felixstowe	1019.6	-14	ESE	3	c	46	55	8	7	3	-	7-8	9+	3000
	Gorleston	1020.2	-12	SE	4	c	46	65	7	8	-	-	9+	9+	1400
	Mildenhall	1019.5	-12	SE	3	c	47	55	8	7	7	-	7-8	9+	4500
	Cranwell	1010.7	-14	S'E	3	z	45	55	6	1	-	-	2-3	2-3	2500
3	Birmingham	1017.7	-10	SSE	3	c	44	45	6	-	3	-	0	7-8	-
	Upper Heyford	1018.8	-12	SSE	4	z	47	55	6	-	-	5	0	2-3	-
4	Ross-on-Wye	1017.0	-14	SE'S	3	c	46	65	7	5	1	-	9	10	2500
5	Hartland Point	1013.7	-14	SW	3	c	51	75	8	4	6	-	7-8	9+	1200
	Bristol	1017.3	-8	SE	3	z	45	65	6	5	-	-	10	10	3000
	Portland Bill	1016.8	+2	SE	4	c	50	92	7	5	7	-	7-8	10	2500
	Plymouth	1015.3	-10	S	4	c	53	65	8	8	-	2	9	9	4000
	The Lizard	1014.1	-6	S	6	c	52	75	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	1012.0	-8	S	5	c	53	75	7	5	2	-	4-6	10	1200
	Guernsey														
6	Pembroke	1018.1	-4	S'E	6	ir	53	75	7	8	2	-	7-8	10	2000
7	Holyhead	1012.1	-14	SSE	6	c	49	85	6	-	7	-	0	10	-
	Chester (Sealand)	1015.7	-16	SE'S	4	z	44	55	6	-	7	-	0	9	-
8	Manchester	1017.1	-12	SSE	4	c	46	45	7	-	3	6	0	7-8	-
10	Spurn Head	1019.0	-2	SE'S	4	c	47	65	7	5	6	1	4-6	7-8	4000
	Catterick	1017.6	-18	SSE	3	z	44	75	5	-	3	-	0	Tr	-
	Tynemouth	1017.9	-12	S	5	bc	46	65	6	2	-	-	2-3	2-3	3200
11	St. Abbs Head	1014.0	-28	S	4	bc	45	65	7	5	4	-	2-3	4-6	2500
	Leuchars	1013.9	-22	SSE	5	b	46	65	7	-	3	-	0	1	-
12	Renfrew (Abbots I.)	1011.9	-22	SE	4	z	45	75	5	5	7	4	4-6	9+	2500
	Eskdalemuir	1014.0	-20	S'W	4	bc	43	65	6	7	7	-	2-3	4-6	4000
	Point of Ayre	1011.8	-20	S'E	6	c	50	85	7	5	3	6	4-6	9+	1500
13A	Tiree	1002.6	-32	SE	8	pr	48	97	6	-	2	-	10	10	800
13B	Stornoway	1003.4	-28	SSE	8	pr	48	75	6	5	7	-	7-8	10	2000
15	Dalwhinnie	1010.8	-32	SSE	5	c	39	75	7	8	-	4	4-9	9	2500
	Aberdeen	1013.7	-18	S'W	5	bc	46	55	8	1	-	-	2-3	2-3	2500
	Wick	1010.6	-22	SSW	8	b	46	65	8	5	-	-	1	1	2500
16	Lerwick	1012.1	-28	S	8	c	47	95	8	5	7	-	7-8	10	1500
17	Blacksod Point	999.1	-4	S'E	6	ir	55	97	6	6	-	-	10	10	<150
18	Malin Head	1002.0	-30	S'W	6	c	49	85	7	8	-	-	9	9	4000
	Aldergrove	1007.6	-22	S'E	5	rr	48	85	6	6	2	-	7-8	10	700
19	Birr Castle	1006.1	-4	S	4	c	51	85	8	9	7	-	4-6	9	1500
20	Valentia Obsy. †	1004.1	+4	SSW	5	c	59	75	7	5	3	-	7-8	7-8	1500
	Roches Point	1006.2	-12	S	6	r/p	53	97	7	5	-	-	9+	9+	800

OBSERVATIONS at 18h. G.M.T. 29th 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)	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)	1018.6	+4	S'E	2	z	39	75	5	5	-	1	Tr	1	2500	1	*
Croydon	1018.5	+4	-	0	m	36	75	4	5	-	-	Tr	Tr	4000	0	*
S. Farnborough	1018.7	+6	-	0	m	39	75	4	-	3	6	0	4-6	-	1	*
Boscombe Down	1017.5	+4	SE'E	3	z	40	85	6	-	7	6	0	9	-	0	*
Calshot (Soton.)	1017.6	-2	SSE	3	z	47	65	6	-	3	6	0	7-8	-	1	2
Lympne	1018.2	0	-	0	z	38	75	6	5	-	-	4-6	4-6	2200		§
Manston	1018.5	-2	ESE	2	z	37	85	6	4	-	-	7-8	7-8	2500		*
Shoeburyness	1019.0	0	ESE	2	bc	42	75	7	8	1	-	2-3	2-3	4000	1	*
Felixstowe	1019.0	-2	SSE	2	z	44	65	6	5	-	-	10	10	4000	1	
Gorleston	1019.2	-4	SE	4	c	45	65	6	8	-	-	7-8	7-8	1500	0	2
Mildenhall	1018.6	-2	SE	2	bc	37	75	7	5	-	-	2-3	2-3	5000	0	*
Cranwell	1018.3	-4	SE	2	z	35	92	6	5	-	-	7-8	7-8	2500	1	*
Birmingham	1016.8	-2	SSE	2	c	42	63	6	-	7	-	0	9+	-	1	*
Upper Heyford	1018.0	+2	SSE	2	z	41	65	6	5	7	-	9+	10	4500	0	*
Ross-on-Wye	1016.8	-8	SE	3	z	45	65	6	5	-	-	9+	9+	2500	1	*
Hartland Point	1013.1	-2	S	3	r	49	85	8	8	2	-	4-6	10	1500	1	2
Bristol	1016.1	-6	SSE	3	z	45	75	6	5	7	-	7-8	10	4000	1	*
Portland Bill	1015.9	-2	SE	4	c	48	85	7	5	-	-	10	10	2500	1	4
Plymouth	1014.9	+2	S	4	c	52	75	8	5	2	-	7-8	10	2500	0	3
The Lizard	1013.6	+2	S	6	c	50	97	5	8	2	-	9	10	1500	1	4
Scilly (St. Mary's)	1011.2	-4	S	5	rr	51	97	5	6	2	-	7-8	10	800	1	3
Guernsey																
Pembroke	1011.8	-2	S	7	dd	51	75	6	8	2	-	7-8	10	1200	1	4
Holyhead	1010.4	-2	SSE	6	c	49	85	7	5	7	-	4-6	9+	4700	1	4
Chester (Sealand)	1014.7	-4	SE	4	z	44	65	6	5	-	-	9+	9+	3000	1	*
Manchester	1015.9	-6	SE'E	3	m	42	55	4	-	7	-	0	7-8	-	0	*
Spurn Head	1017.9	-2	SSE	4	bc	45	65	7	4	-	-	4-6	4-6	4000	0	3
Catterick	1016.3	-4	S'E	3	bc	39	85	5	-	7	6	0	4-6	<150	0	
Tynemouth	1016.9	-2	S	5	bc	43	65	6	2	4	2	2-3	4-6	2800	1	2
St. Abbs Head	1012.5	-8	S	5	c	40	75	6	4	7	4	4-6	7-8	2500	0	2
Leuchars	1011.4	-10	SSE	4	z	43	75	5	-	7	6	0	4-6	-	1	*
Renfrew (Abbots I.)	1009.3	-10	SE'S	4	m	46	75	4	5	-	-	10	10	2000	1	*
Eskdalemuir	1012.5	-4	S'W	3	z	39	65	5	5	-	-	10	10	800	0	*
Point of Ayre	1010.2	-8	S	6	c	48	92	8	6	2	-	4-6	10	1500	1	4
Tiree	999.9	-6	SSE	8	ir	50	92	6	-	2	-	10	10	1200	1	5
Stornoway	999.0	-26	SSE	9	r/pr	50	85	7	5	7	-	4-6	10	2000	1	5
Dalwhinnie	1008.3	-8	SSE	6	o	39	85	6	5	-	-	10	10	1500	1	*
Aberdeen	1011.4	-10	S'W	5	c	46	75	6	7	3	-	4-6	7-8	2500	1	3
Wick	1006.2	-26	SSW	8	bc	46	75	6	5	7	-	4-6	4-6	2500	1	4
Lerwick	1008.5	-14	S	8	c	48	65	7	3	7	-	7-8	10	800	1	*
Blacksod Point	998.9	-10	S	7	ir	56	85	7	9	-	-	10	10	<150	1	4
Malin Head	1000.8	-6	S	5	c	50	85	8	9	-	-	7-8	7-8	5700	0	3
Aldergrove	1005.7	-10	S'E	5	o/d	49	92	6	5	-	-	10	10	1500	1	*
Birr Castle	1004.7	-2	S	3	c	58	92	8	5	-	-	9	9	2500	1	*
Valentia Obsy. †	1003.9	-2	S	4	z	56	92	6	5	7	-	7-8	10	1500	1	3
Roches Point	1006.4	+6	SSW	3	c	54	97	7	5	-	5	4-6	7-8	1500	1	5

PAST 24 HOURS.

Stations	Weather 7h.–13h. 29th (37)	Weather 13h.–18h. 29th (38)	Weather 18h. 29th to 1h. 30th (39)	Weather 1h.–7h. 30th (40)
London (Kew)	bmfmbc	bczybm	bmo	bbcmox,mo
Croydon	bmzy	bm	bm	bmbcmo
S. Farnborough	bmbcbzy	b cybc⊕	bczczo	r
Boscombe Down	cz	cz	bccmo	czo
Calshot (Soton.)	bcmbc⊕	oc ⊕	bcczob,c	czocdodo
Lympne	by	bc zo	bczo,cmo	cbcmox
Manston		cbcm	bccbcmo	bc
Shoeburyness	cmbcbc	bcy	bcb	b
Felixstowe	ccpccy	cyc,m	cmoby	bycmobmo
Gorleston	gy	cyc	cbc	bczo
Mildenhall	bcmbmc	cbccbc	bcbmox	bmox
Cranwell	c,bm	bcm	bcbmox	b,cmo
Birmingham	bcmc	c	cbc	bcodo
Upper Heyford		bccz	cbczo	c
Ross-on-Wye	cmbcc	cdoc	c	c
Hartland Point	c	cro	bccro	c
Bristol	bmxcz	cz	czo	cmoiro
Portland Bill	c	c	c	orrc
Plymouth	ccy	ccicc	ciro cmorodo	c,irodo,c
The Lizard	co	rrco	orrco	o
Scilly (St. Mary's)	c	crom	r	cbcc
Guernsey				
Pembroke	irqc	crmqd	cirq	cq
Holyhead	bcmqc	irmqc	cq bc	qmoRoc
Chester (Sealand)	cmbcm	czyc	crocz	czoroir
Manchester	bmczy	cyzz	bczo	czoro
Spurn Head	c	bc	b	bbcc
Catterick	fxmbz	bzbcz	bc mocmo	cmo
Tynemouth	bccFbc	bc	bc	bcc
St. Abbs Head	bc	bccm	cmo	moiro
Leuchars	b,c,b	bbcmbcm	bcc,iromo	cmorr
Renfrew (Abbots I.)	cbccz		cmoiroc	cmoiroRro
Eskdalemuir	bbcz	bccoz	ozoc	crrmo
Point of Ayre	c	rorc	c	rr
Tiree	corr [gale]	r [gale]		or Rc
Stornoway	cpr	pr [gale]	r [gale]	crr [gale]
Dalwhinnie	c	co	*	ciRo [gale]
Aberdeen	bcbyz	cycz [gale]	czo	ccir
Wick	bbct [gale]	b	prmoq [gale]	
Lerwick	cphrc [gale]	cpr [gale]	cmo [gale]	cpro [gale]
Blacksod Point	ircq	ircq	rrcq	c
Malin Head	ccprc	c	cpro Prc	circ
Aldergrove	crrorm	rcmir	cmodoRRmo	RRrriro
Birr Castle	circ	c	cir	cir
Valentia Obsy. †	crrcbc	bc	crr, dRR	RRLrrddo
Roches Point	dddrc	c	bcc	drdr R

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. r₀, 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.

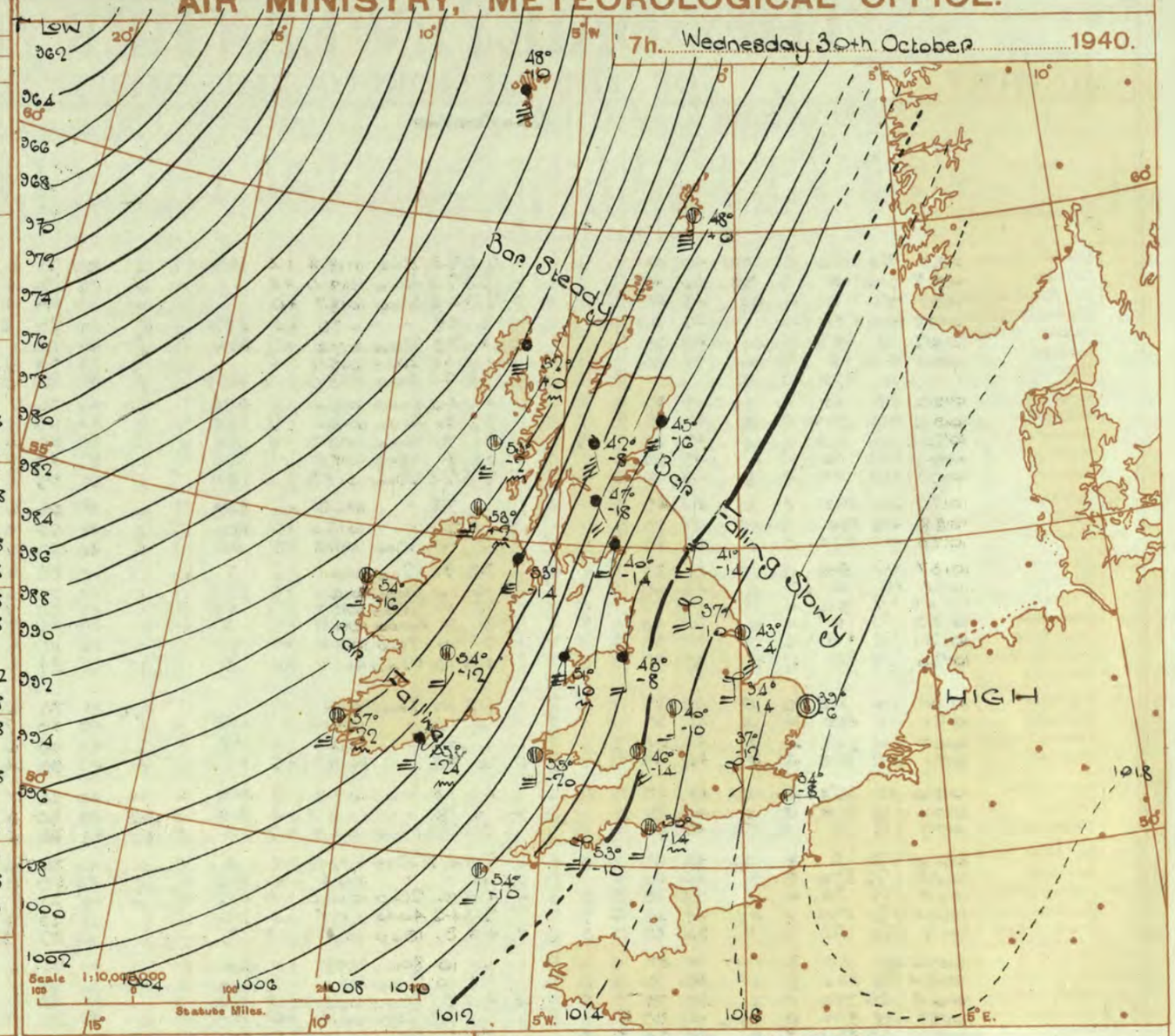
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 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	1-	01662	49712	5-	01764	49764	5-	01644	50864	62	63644	49868
115	53	02744	14525	51	02744	16685	52	14744	49527	87	62734	40687
203												
206	17	01771	16043	57	02656	15527	5-	02757	16627	62	02755	16528
210							51	02765	47627	52	22755	48668
220												
230				62	58525	16468	62	66526	16568	5-	62648	16568
245	13	01764	16614	07	05690	49625	5-	14658	48858	52	66446	49868
260	10	01764	16314	07	05690	14116	5-	05667	14327	52	61668	15568
277	52	02754	14628	52	22647	14668	5-	51648	48758	52	05637	14668
279												
285	50	05645	16615	5-	02536	14426				6-	64538	08468
288				07	05690	14414	57	05663	49514			
278	43	51554	16658							43	01653	14466
301	00	05550	14515	02	05550	14518	5-	05657	14567	52	62544	14568
321	10	05652	15312	07	05690	12314	00	05550	14320	02	05668	14428
299	5-	05648	20328				50	05642	22402	5-	05648	18528
292	00	00690	14300	04	05690	14213	00	05690	16213	5-	61548	14318
310	--	01635	20525	--	02628	20528				--	02528	20528
316	10	05662	14342	51	05562	15415	57	05564	14216	5-	62448	12268
333	07	02790	16728	62	22653	16767	5-	02748	16728	52	51646	14628
324	--	05643	12115							--	03633	20128
340	57	05674	14646	53	05663	13415	5-	05658	14518			
136	23	05663	12315	03	01790	13215	03	05690	18225	00	05690	17202
336	-	03743	12428							--	22533	16468
350	00	05690	12400	07	05690	04114				5-	05568	12328
368												
379				5-	05658	14328	5-	05658	14228	5-	05658	16328
390	20	01863	14213	04	05690	10212	00	45320	13240	03	41490	12142
382				5-	05567	12227	57	05662	13214	5-	61658	11368
438	50	01754	15214							50	01754	17214
430	40	02764	10315	50	05563	04114	07	05690	08123	07	05690	10228
409	52	61754	16628	52	61636	16568	52	22635	49568	52	51637	16558

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th October 1940.
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 ...	Moderate or fresh southerly winds, strong at times on coasts: cloudy occasional rain; becoming rather mild.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Fresh or strong southerly winds, gale force at times in exposed places, moderating later; cloudy with intermittent rain or showers: average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or fresh south to southwest wind; cloudy, occasional rain or showers: mild.

GENERAL INFERENCE.

A deep depression near Southwest Iceland is moving northeast and an associated trough is moving slowly eastwards across the British Isles. Further disturbances in the Atlantic are expected to move northeast.
It will be fair at first in extreme East and Southeast England, but mainly dull weather with occasional rain in other districts will spread eastwards.

FURTHER OUTLOOK.

Continuing unsettled.

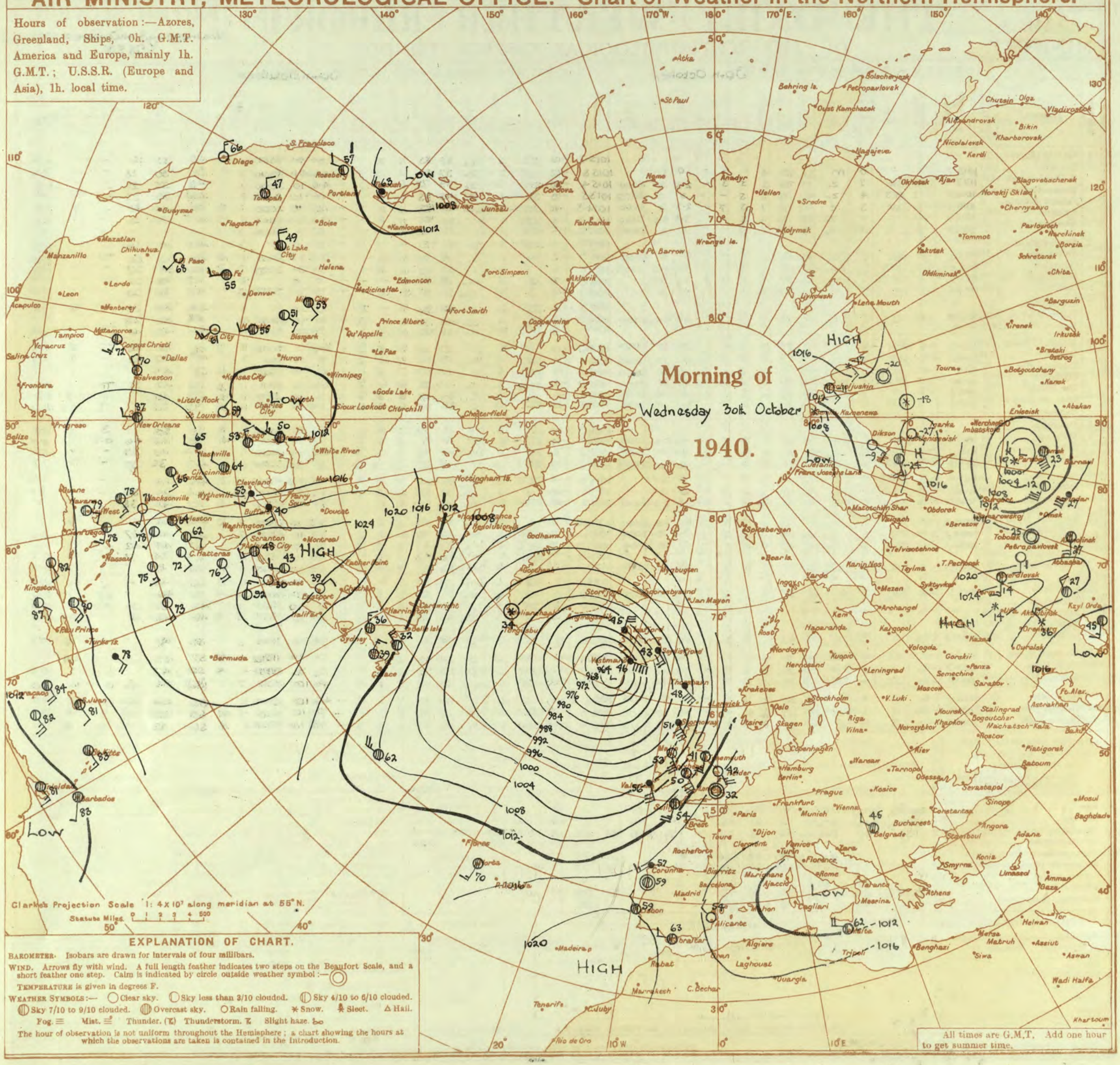
Gale warnings issued at 1950 on 28/10/40 in districts 17, 19, 20; at 0330 on 29/10/40 in districts 12, 13 (a+b) & 18; and at 0525 on 29/10/40 in districts 5, 6, 7, 8, 11, 15 & 16.

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

Forecasts issued at

H.M.S.O. Press, Cornwall House, S.E.1.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 30th October 1940.

No. 28.8.31.

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)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	018·7	−4	–	0	m	32	85	4	–	–	–	0	0	–
	S. Farnborough	226	017·4	−10	SSE	2	zo	37	75	5	5	3	–	2-3	9+	4000
	Boscombe Down	417	016·2	−12	SE'S	4	zo	40	75	6	5	–	–	9	9	3500
	Calshot (Sthmtn.)	8	016·7	−8	SSE	3	c	47	75	7	5	7	–	2-3	9	5000
	Lympne ...	346	018·7	−10	E	1	zo	38	75	6	5	–	–	7-8	7-8	2500
	Manston ...	154	018·0	−8	S	2	zo	37	85	6	5	–	–	9	9	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	017·5	−10	SE	2	b	43	55	7	5	–	–	Tr	Tr	5000
	Gorleston ...	5	018·0	−14	SE'S	2	bc	45	65	7	5	–	–	4-6	4-6	2500
	Mildenhall ...	19	017·7	−8	SE'S	2	zo	29	97	6	–	4	–	0	2-3	–
	Cranwell ...	240	017·4	−12	SE	2	zo	30	92	5	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	017·0	−10	SE	2	zo	37	75	6	5	–	–	4-6	4-6	4500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	011·2	−6	SSW	4	c/r	50	97	7	5	–	–	9+	9+	1500
	Bristol ...	209	014·5	−10	SSE	3	zo	43	75	6	5	7	–	9	10	2000
	Portland Bill ...	32	014·7	−10	SE	4	c	44	85	7	5	–	–	10	10	2500
	Plymouth ...	82	013·7	−10	SSW	4	ro.ro.	50	97	6	–	2	–	10	10	900
	The Lizard ...	240	011·8	−8	S	7	o	52	97	6	5	–	–	10	10	1000
	Scilly (St. Mary's)	163	010·3	−2	S'W	5	c	54	92	6	5	2	–	7-8	10	1000
	Guernsey ...	175														
6	Pembroke ...	142														
7	Holyhead ...	26	007·4	−14	SSE	6	bc	50	92	7	5	4	–	4-6	4-6	3200
	Chester (Sealand)	16	012·1	−14	SSE	4	zo	43	75	6	5	–	–	9+	9+	3500
8	Manchester ...	70	013·8	−12	SE'S	3	zo	42	75	5	5	–	–	10	10	3000
10	Spurn Head ...	29	017·4	−8	SSE	5	b	42	75	7	–	–	–	0	0	–
	Catterick ...	175	014·1	−18	S	4	zo	36	85	6	–	7	–	0	9	–
	Tynemouth ...	108	014·2	−16	SSW	5	bc	41	75	6	2	–	–	2-3	2-3	2800
11	St. Abbs Head	280	009·9	−4	S	7	c	40	75	6	5	4	–	4-6	7-8	2000
	Leuchars ...	36	008·7	−14	SSE	6	zo	44	75	5	5	2	–	7-8	10	3500
12	Renfrew (Abbots I.)	19	006·7	−12	SE'S	4	zo	47	85	6	5	–	–	10	10	1700
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	007·9	−8	S	6	d.d.	50	92	7	6	2	–	7-8	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	993·3	−18	SSE	8	rr	51	92	6	5	2	–	7-8	10	1000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81														
16	Lerwick ...	156	004·3	−28	S	9	c	48	65	6	8	2	–	4-6	10	800
17	Blacksod Point	18	996·6	−12	S'E	7	RR	53	97	6	6	–	–	10	10	1150
18	Malin Head ...	84	997·2	−8	S	7	c/pr	53	85	6	9	–	–	7-8	7-8	1500
	Aldergrove ...	268	003·1	−14	S'E	4	RR	52	92	6	6	2	–	7-8	10	1100
19	Birr Castle ...	173	002·7	−6	S	2	ir	54	92	7	5	–	–	10	10	1500
20	Valentia Obsy.	30	999·8	−24	S	6	RR	56	97	6	6	–	–	10	10	800
	Roches Point	22	004·6	−10	S	5	c	54	97	8	5	–	–	7-8	7-8	1500

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)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1015·7	−12	E'S	2	zo	37	85	5	5	–	–	9+	9+	2500	1	*
	Croydon ...	1015·8	−12	SE	2	zo	37	85	5	5	7	–	4-6	4-6	3500	1	*
	S. Farnborough	1015·4	−10	SSE	3	zo	39	75	6	5	7	–	4-6	10	3000	1	*
	Boscombe Down	1013·5	−10	SE	4	ir.	45	85	6	5	–	–	10	10	2000	1	*
	Calshot (Sthmtn.)	1014·5	−10	SSE	5	d.d.	45	85	6	5	–	–	10	10	2000	1	3
	Lympne ...	1017·7	−8	ESE	1	bc	34	85	7	5	–	–	2-3	2-3	6000	1	*
	Manston ...	1017·3	−2	SSE	1	b	29	92	7	5	–	–	Tr	Tr	3000	*	*
2	Shoeburyness ...	1017·0	−6	SSE	1	b	41	75	6	–	–	–	0	0	–	1	*
	Felixstowe ...	1016·5	−6	N	1	zo	34	85	5	5	–	–	2-3	2-3	5000	1	0
	Gorleston ...	1017·3	−6	–	0	c	39	75	6	5	–	–	9+	9+	2000	0	2
	Mildenhall ...	1016·0	−12	SE	3	zo	28	85	5	–	–	–	0	0	–	0	*
	Cranwell ...	1015·1	−14	S	4	zo	34	85	5	5	–	–	9+	9+	5500	3	*
3	Birmingham ...	1012·7	−10	SSE	3	0	40	85	6	–	2	–	0	10	–	1	*
	Upper Heyford	1014·7	−14	SE	3	zo	40	75	6	–	2	–	10	10	1800	0	*
4	Ross-on-Wye	1011·4	−14	SE'S	4	c	46	85	6	5	1	–	9+	10	1500	1	*
5	Hartland Point	1008·7	−10	S	3	c	53	97	8	8	2	–	4-6	9	2000	1	2
	Bristol ...	1012·4	−10	SSE	4	ir.	49	92	7	6	2	–	9	10	700	1	*
	Portland Bill ...	1012·9	−14	SSW	4	0	50	97	7	5	–	–	10	10	2500	1	4
	Plymouth ...	1011·0	−10	SSW	5	zo	53	92	6	6	2	–	4-6	10	900	1	3
	The Lizard ...	1010·1	−6	S	6	C	54	97	6	8	2	–	9	10	800	1	4
	Scilly (St. Mary's)	1007·5	−10	S'W	4	C	54	97	6	5	4	–	7-8	9+	1500	1	3
	Guernsey ...																
6	Pembroke ...	1006·3	−20	S'E	6	cq	55	92	7	8	–	–	9+	9+	2000	1	*
7	Holyhead ...	1005·2	−10	SSE	6	ro.r.	51	97	6	6	2	–	7-8	10	900	1	4
	Chester (Sealand)	1010·3	−8	SSE	4	ro.ro.	43	85	5	6	2	–	4-6	10	1000	1	*
8	Manchester ...	1011·0	−16	SE'S	3	ir	44	75	6	5	7	–	9	10	2200	1	*
10	Spurn Head ...	1014·3	−4	SE'S	5	C	43	65	7	4	8	1	4-6	7-8	4000	0	3
	Catterick ...	1012·1	−10	S	4	zo	37	85	6	5	7	–	4-6	10	2200	0	*
	Tynemouth ...	1011·5	−14	SSW	5	zo	41	75	6	5	–	–	9+	9+	2300	1	3
11	St. Abbs Head	1006·8	−20	S	6	ir.	48	85	5	5	2	–	7-8	10	2000	1	3
	Leuchars ...	1005·3	−10	SSE	5	rr	44	92	6	5	2	–	7-8	10	4200	2	*
12	Renfrew (Abbots I.)	1002·7	−18	SE'S	4	ir.	47	85	6	5	2	–	9+	10	2500	1	*
	Eskdalemuir ...	1006·2	−14	SSW	4	rr	40	92	5	6	–	–	10	10	450	1	*
	Point of Ayre ...	1003·7	−22	S	6	c/r	50	97	7	6	2	–	7-8	10	1500	1	4
13A	Tiree ...	994·7	−2	S'E	6	c/r	53	97	7	6	–	–	9	9	1500	1	5
13B	Stornoway ...	992·9	0	S	6	ir.	52	85	7	8	7	–	9	10	1000	1	4
15	Dalwhinnie ...	991·7	−8	SE	7	ir	42	92	6	5	2	–	9	10	800	1	*
	Aberdeen ...	1005·3	−16	S	6	ir.	45	85	6	6	2	–	9+	10	1500	1	3
	Wick ...																
16	Lerwick ...	1001·6	0	S	9	c/pr	48	75	6	8	2	–	7-8	10	800	1	*
17	Blacksod Point	995·1	−16	S	3	c	54	97	8	9	–	–	9+	9+	1500	1	2
18	Malin Head ...	995·7	+2	S'W	5	c/pr	53	92	6	6	–	–	9	9	800	1	4
	Aldergrove ...	998·9	−14	S'E	5	ir.	53	92	6	6	2	–	4-6	10	400	2	*
19	Birr Castle ...	998·8	−12	S	4	c/r	54	97	7	6	2	–	4-6	10	1500	1	*
20	Valentia Obsy.	996·3	−22	S'W	5	o/d	57	97	6	5	–	–	10	10	450	1	4
	Roches Point	995·6	−24	SSW	6	RR	55	97	6	6	2	–	7-8	10	450	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 22h. hrs. (36)
1	London (Kew)	47	32	16	–	–	6·6
	Croydon ...	51	30	28	–	–	7·6
	S. Farnborough	49	35	25	–	–	6·9
	Boscombe Down	(46)	36	32	–	Tr	0·4
	Calshot (Sthmtn.)	50	44	43	–	1	3·9
	Lympne ...	47	31	21	–	–	8·2
	Manston ...	*	*	*	*	*	*
2	Shoeburyness ...	49	34	26	–	–	5·8
	Felixstowe ...	46	33	26	Tr	–	0·0
	Gorleston ...	46	38	37	–	–	0·2
	Mildenhall ...	49	28	21	–	–	2·4
	Cranwell ...	45	26	20	–	–	5·0
3	Birmingham ...	44	39	34	–	Tr	1·4
	Upper Heyford	48	36	29	–	–	*
4	Ross-on-Wye	46	43	41	Tr	–	1·4
5	Hartland Point	51	48	45	Tr	Tr	0·6
	Bristol ...	47	42	39	–	Tr	1·3
	Portland Bill ...	51	43	*	–	1	*
	Plymouth ...	55	49	51	Tr	1	1·1
	The Lizard ...	53	50	*	1	2	0·3
	Scilly (St. Mary's)	53	50	*	2	0·2	0·0
	Guernsey ...						
6	Pembroke ...	53	50	*	3	1	0·3
7	Holyhead ...	50	48	46	0·1	1	0·4
	Chester (Sealand)	44	42	39	–	1	1·5
8	Manchester ...	47	36	37	–	Tr	1·7
10	Spurn Head ...	48	40	*	–	–	2·0
	Catterick ...	44	34	33	–	–	3·8
	Tynemouth ...	47	41	38	–	–	*
11	St. Abbs Head	(45)	38	*	–	Tr	*
	Leuchars ...	47	41	37	–	2	6·6
12	Renfrew (Abbots I.)	47	44	42	0·2	3	1·6
	Eskdalemuir ...	44	38	37	–	4	4·9
	Point of Ayre ...	50	47	*	1	2	0·0
13A	Tiree ...	52	50	*	2	10	0·0
13B	Stornoway ...	50	46	*	0·1	7	0·0
15	Dalwhinnie ...	41	35	33	0·1	9	0·4
	Aberdeen ...	47	44	41	–	0·1	4·2
	Wick ...			*	–		*
16	Lerwick ...	51	47	*	Tr	Tr	0·2
17	Blacksod Point	57	49	*		0·1	*
18	Malin Head ...	50	47	*	0·1	5	0·0
	Aldergrove ...	(56)	48	46	4	10	0·0
19	Birr Castle ...	53	52	50	0·1	8	0·0
20	Valentia Obsy.	60	55	54	3	14	2·4
	Roches Point	56	53	*	6	9	*

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	bmfbc	bczoymo	bcmox	47	32	16	–	–	6·6	*	*	5
Croydon ...	217	bmozy	bmo	bmobc	51	30	28	–	–	7·6	*	*	6
Greenwich (Royal Observatory) ...	149	by	by	bmoxcy	48	28	17	–	Tr	7·6	55	48	4
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	49	35	31	–	–		61	81	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	49	31	19	–	–		78	77	*
Camden Square ...	110			*						*	*		*
Kensington ...	80	bcmbc	bc	*	49	31	19	–	–		61	79	*
Hampstead Observatory ...	450	bc	bc	of	47	*	25	–	–		*	88	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0·3	20h 29th	<0·1	3–5h 30th

Kew Observatory Max.	Time.	Min.	Time.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.
Paris ...										
Brussels ...										
Berlin ...										
Zürich ...										
Rome ...										

Past 24 Hours

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

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 ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

‡ 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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 31st October 1940.

No. 28533

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)	1018.5	-20	SSE	4	z₀	48	75	6	5	·	·	10	10	2500
	Croydon	1013.5	-20	S'E	3	c	47	75	6	5	3	-	4-6	9+	4000
	S. Farnborough	1013.1	-22	S	4	z	50	85	6	7	7	-	4-6	10	1200
	Boscombe Down	1011.5	-18	S'E	5	r₀r₀	48	97	5	-	2	-	10	10	300
	Calshot (Soton.)	1013.4	-10	S'W	5	c	52	85	7	5	7	-	2-3	10	1200
	Lympne	1016.3	-10	SSE	2	bc	47	75	7	7	-	-	4-6	4-6	4000
	Manston	1015.3	-18	SSE	4	z₀	47	65	6	5	-	-	tr	tr	4000
2	Shoeburyness	1015.0	-20	S'E	4	c	49	75	7	5	-	1	7-8	7-8	4000
	Felixstowe	1015.3	-18	S'W	4	bc	49	55	7	-	5	2	0	4-6	-
	Gorleston	1012.9	-20	S'W	5	c	47	75	6	8	·	-	7-8	7-8	1500
	Mildenhall	1013.6	-26	S'E	4	z₀	47	65	6	5	7	-	4-6	4-6	5000
	Cranwell	1012.6	-22	SSE	5	z₀	42	75	5	5	-	-	10	10	6000
3	Birmingham	1009.4	-28	SSE	4	o	45	92	6	5	·	-	10	10	800
	Upper Heyford	1012.4	-20	SSE	4	z	46	55	6	5	2	-	2-3	10	800
4	Ross-on-Wye	1008.4	-20	S'E	4	id	51	85	6	5	-	-	10	10	1500
5	Hartland Point	1004.0	-24	S	5	c	56	85	8	8	7	-	4-6	9+	2000
	Bristol	1010.0	-18	S	4	o/d	52	85	7	5	-	-	10	10	800
	Portland Bill	1011.2	-12	SSW	5	o	54	92	7	5	·	-	10	10	2500
	Plymouth	1008.9	-14	SSW	5	z	54	85	6	6	2	-	7-8	10	800
	The Lizard	1005.9	-36	S	7	p₀p	55	97	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	1003.2	-30	S	6	ip	56	97	5	6	-	-	10	10	500
	Guernsey														
6	Pembroke	1001.5	-28	S'E	7	cq	56	92	7	8	-	-	9+	9+	2000
7	Holyhead	998.7	-46	SSE	7	c	55	85	7	9	7	-	4-6	10	1400
	Chester (Sealand)	1004.9	-38	SE'S	5	z	49	85	6	5	·	-	10	10	700
8	Manchester	1006.6	-34	SE'S	5	z	48	85	5	5	2	-	9+	10	1100
10	Spurn Head	1012.2	-20	SE'S	6	c	45	75	7	5	-	-	7-8	7-8	4000
	Catterick	1008.1	-28	S	4	z	40	92	5	-	2	-	2-3	10	1000
	Tynemouth	1006.5	-30	S	6	o/pp	43	85	6	-	2	-	10	10	1600
11	St. Abbs Head	1002.2	-30	SSE	6	cq	40	92	6	5	2	-	7-8	10	2000
	Leuchars	1001.8	-26	ESE	3	z	46	85	6	5	7	-	7-8	10	1500
12	Renfrew (Abbots I.)	998.5	-34	SSE	5	z	52	70	6	5	2	-	9	10	1500
	Eskdalemuir	1002.6	-28	SW	5	c	45	85	5	5	-	-	10	10	800
	Point of Ayre	998.8	-30	S	7	c	52	97	7	6	2	-	7-8	10	1500
13A	Tiree														
13B	Stornoway														
15	Dalwhinnie	995.5	-26	SSE	6	rr	47	85	6	5	2	-	7-8	10	800
	Aberdeen	1002.3	-28	S	6	r₀r₀	46	97	6	6	2	-	9+	10	800
	Wick	998.5	-8	SSW	8	c	49	92	6	6	7	8	4-6	9+	1500
16	Lerwick	1000.8	-8	S	9	pp	47	85	6	6	2	-	4-6	10	800
17	Blacksod Point	983.6	-82	NE	1	r₀r₀	53	97	7	6	-	-	10	10	<150
18	Malin Head	987.1	-44	SSW	5	ip	53	97	6	6	·	-	9+	9+	800
	Aldergrove	991.8	-58	SSE	6	r₀r₀	53	97	6	6	2	-	9+	10	800
19	Birr Castle	988.3	-58	SW	5	c	58	85	8	6	1	-	4-6	10	1500
20	Valentia Obsy. †	991.5	-6	SSW	6	c	55	85	8	5	2	-	9	9+	2500
	Roches Point	993.9	-16	S'W	6	c/p	58	97	7	6	2	-	7-8	9	800

OBSERVATIONS at 18h. 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)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1009.5	-24	S	5	z₀	50	75	6	5	-	-	9+	9+	2500	1	*
	Croydon	1010.1	-22	SSE	3	z₀	49	75	5	5	2	-	7-8	10	4000	1	*
	S. Farnborough	1009.6	-20	S'W	4	ir₀	50	75	7	5	2	-	7-8	10	2000	1	*
	Boscombe Down	1006.7	-16	S'E	6	ir₀	50	92	6	5	-	-	10	10	800		*
	Calshot (Soton.)	1009.5	-22	S'W	6	r₀r₀	52	85	6	5	-	-	10	10	1600	1	4
	Lympne	1014.0	-14	S	3	z₀	49	75	6	5	-	-	9+	9+	2000	1	§3
	Manston	1013.2	-10	S'E	4	z₀	45	92	6	5	7	6	4-6	10	4500		*
2	Shoeburyness	1012.6	-18	SE	5	c	47	85	7	5	7	-	7-8	7-8	4000	1	*
	Felixstowe	1012.5	-14	S	6	z₀	48	75	6	5	7	-	9	9+	3000	1	3
	Gorleston	1012.3	-10	S'W	5	bc	45	75	6	-	5	-	0	4-6	·	0	3
	Mildenhall	1009.7	-18	SSE	5	z₀	47	75	6	5	2	-	9+	10	3000	0	*
	Cranwell	1007.4	-32	SE	6	z₀	45	85	5	5	-	-	10	10	2000	1	*
3	Birmingham	1003.8	-28	SSE	4	rr	49	92	6	6	-	-	10	10	800	1	*
	Upper Heyford	1007.0	-30	SSE	5	iR	48	92	6	-	2	-	10	10	1500	1	*
4	Ross-on-Wye	1002.8	-30	S'E	4	rr	52	92	6	6	-	-	10	10	1500	1	*
5	Hartland Point	1000.1	-10	S	6	rr	56	97	6	-	2	-	10	10	800	1	4
	Bristol	1004.5	-20	S	7	c/r	53	92	7	5	2	-	9	10	1100	1	*
	Portland Bill	1006.0	-30	SSW	5	rr	54	92	7	5	-	-	10	10	2500	1	5
	Plymouth	1003.0	-34	S	7	dd	56	97	4	6	2	-	10	10	100	1	5
	The Lizard	1003.4	0	SSW	7	r₀r₀	57	99	4	5	-	-	10	10	800	1	5
	Scilly (St. Mary's)	1002.3	+2	SW'S	5	c/r	57	97	7	8	2	-	7-8	9+	1000	1	3
	Guernsey																
6	Pembroke	997.8	-4	SW	7	cq	56	97	7	8	-	-	9+	9+	2000	1	4
7	Holyhead	994.9	-16	S'E	4	iR	54	99	5	-	2	-	10	10	400	1	5
	Chester (Sealand)	999.7	-14	SSE	4	r₀r₀	51	92	5	6	2	-	9	10	1200	1	*
8	Manchester	1000.5	-34	SSE	5	rr	50	92	5	6	2	-	10	10	500	2	*
10	Spurn Head	1005.1	-20	SE'S	7	c	48	75	6	5	-	-	7-8	7-8	4000	0	4
	Catterick	1001.9	-30	SSE	5	RR	43	97	4	-	2	-	10	10	800	1	
	Tynemouth	1001.7	-20	S	6	ir	47	92	6	-	2	-	10	10	1600		
11	St. Abbs Head	995.2	-32	SSW	7	RR	44	92	6	5	2	-	9	10	1500	1	4
	Leuchars	994.5	-40	SE	6	ir	46	92	5	5	2	-	9	10	500	1	*
12	Renfrew (Abbots I.)	990.4	-30	SSE	6	RR	52	92	5	6	2	-	7-8	10	700	1	*
	Eskdalemuir	994.5	-34	S	5	rr	46	97	5	-	2	-	10	10	800	1	*
	Point of Ayre	993.4	-14	SW'S	6	rr	53	97	7	6	2	-	7-8	9+	1500	1	4
13A	Tiree	980.8	0	S'W	6	ir	52	97	6	-	2	-	9+	9+	1200	1	5
13B	Stornoway	983.2	-34	ESE	7	rr	51	92	6	5	2	-	9	10	1200	1	4
15	Dalwhinnie	990.0	-42	SSE	9	RR	42	92	6	5	-	-	10	10	800	2	*
	Aberdeen	996.4	-44	S	6	c	48	92	6	6	2	-	9+	10	1500	1	4
	Wick	991.9	-48	SSW	8	cq	48	92	5	5	2	-	9	10	800	1	4
16	Lerwick	998.8	-4	S'E	9	c/r	48	85	6	6	2	-	4-6	10	800	1	*
17	Blacksod Point	985.2	+10	SSW	7	cq	54	85	7	9	-	-	7-8	7-8	1500	2	5
18	Malin Head	984.5	+18	SW	8	c	53	85	7	9	-	-	9	9	1500	1	4
	Aldergrove	989.0	+8	S	4	c	54	75	8	8	-	3	7-8	7-8	1400	2	*
19	Birr Castle	991.4	+4	SW	5	c/pr	54	85	8	9	2	-	7-8	9	800	1	*
20	Valentia Obsy. †	993.0	+16	SW	6	b	54	75	7	3	-	-	1	1	2500	1	4
	Roches Point	995.1	+10	SWS	5	bc	56	85	7	6	-	5	4-6	4-6	1500	1	5

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 30th (37)	Weather 13h.—18h. 30th (38)	Weather 18h. 30th to 1h. 31st (39)	Weather 1h.—7h. 31st (40)
1	London (Kew)	cmir₀d₀m	cm₀cz₀	cr₀cm₀	cm₀
	Croydon	czir₀	cz₀	cr₀m₀bc	bccm₀
	S. Farnborough	cizz	cz₀cr₀	cr₀r₀bcc	cm₀c
	Boscombe Down	cidcr₀r₀m	cr₀r₀m₀	cddm₀bc	cm₀
	Calshot (Soton.)	bcdir₀m	ccm₀	*	cm₀
	Lympne	bcz₀bc	bccz₀	cm₀r₀r₀	cm₀ddcm₀
	Manston	bmz	bm₀ccm₀	cm₀r₀r₀	r₀r₀cm₀
2	Shoeburyness	bbcc	cbcc	cir₀	cir₀c
	Felixstowe	bcmby	bcycm₀	cm₀ir₀d₀	d₀cm₀
	Gorleston		cbc	bcorrq ≡	or₀cz₀
	Mildenhall	bm₀xbcm	cz₀ccz₀	cm₀r₀m₀c	cm₀c, cm₀
	Cranwell	cir₀cm	cm₀	rrm bm₀	
3	Birmingham	o	od₀r	orRc	orRc
	Upper Heyford	cir₀cm	cm₀r₀r₀cm₀ir	r₀orrRbc	crm₀ccm₀
4	Ross-on-Wye	c₀	ocr₀or	rqRcpoc	rqRcpoc
5	Hartland Point	or₀	corr	orrcl	*
	Bristol	cr₀ddm	cr₀rr	crr₀r₀bc	bcm₀c
	Portland Bill	o	orr		o
	Plymouth	r₀r₀cm		ddcrrcm₀	cm₀cm₀pr
	The Lizard	opppp		cbcco	orr
	Scilly (St. Mary's)	coir₀	rridrc	bcb	cr₀r₀
	Guernsey				
6	Pembroke	r₀mcq	cifrrq (gale)	bbcq	bccir₀mqpr₀
7	Holyhead	cm₀r₀r₀	RRrrc	Rm₀lbc	bcm₀lc
	Chester (Sealand)	cr₀r₀m₀	id₀r₀r₀q	cr₀pr₀bcm₀	bccxir₀
8	Manchester	cr₀r₀r₀	om₀rrRrr	rrpr₀bm₀	bm₀cm₀pR
10	Spurn Head	b	c	oir ≡	c
	Catterick	bm₀ir₀cm	m₀oRRm	RRr₀r₀mbcm	ofbcmpr₀
	Tynemouth	cp	oir	srrirc	cpbc
11	St. Abbs Head	cqmr	cqrr	m₀qrr ≡	cbcpr
	Leuchars			cm₀rrRRc	cbcbm₀pr₀bc
12	Renfrew (Abbots I.)	cmr₀r₀cm	cm₀urrRR	*	bcprbc
	Eskdalemuir	or₀r₀cm₀	coRR	orr	ir
	Point of Ayre		Rrr	bc	prcl
13A	Tiree		orrR (gale)	*	*
13B	Stornoway			*	ciR
15	Dalwhinnie	oir	iR₀ (gale)	·	iR₀ ≡
	Aberdeen	r₀crp	r₀r₀c (gale)		orrr₀
	Wick			ir₀m₀q ≡	irbcc
16	Lerwick	cp₀m (gale)	crrig (gale)	cirr	
17	Blacksod Point	rr	cq		
18	Malin Head	cpr₀cpr₀c	cir₀c	cpr₀ir₀dcRRc	*
	Aldergrove	r₀cmir	r₀dircxv	pr₀blbc	cpr₀bcc
19	Birr Castle	bppc	cpr	bbc	bcprc
20	Valentia Obsy. †	bcr₀r₀ddm	cbcclRyb	cprqPRtlc	cpr₀prlc
	Roches Point	RRc	cbc	bc	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/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. r₀, 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.

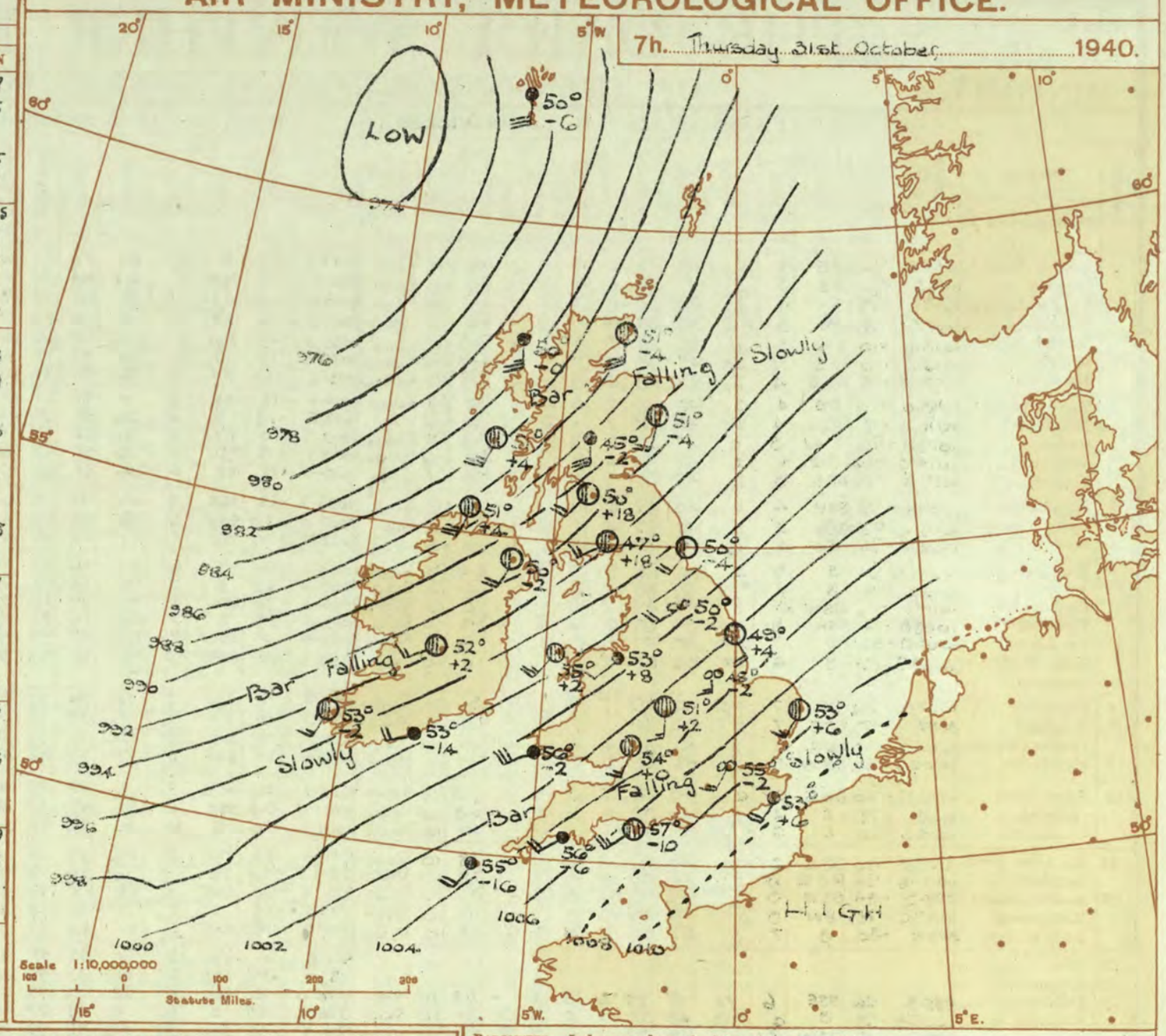
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. Tues. 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
109 5-	03648	28668	62	63546	45868				57	02744	16667
115 52	62834	16566	52	62734	47667	52	02854	16485	52	81744	16485
203						5-	81754	49868			
206 57	02855	49526	5-	64648	44768	8-	25754	18484	53	02855	15385
210			5-	05648	46728	5-	01854	45624	86	02954	16585
220									50	02743	24425
230 62	62684	16568	62	62635	45568	5-	25744	49584	8-	25647	16587
245			02	63548	49768	61	22645	49767	80	01753	51614
260 57	02744	16327	62	61544	14568	00	00890	18400	04	00890	17602
277			9-	81647	16587	50	07753	18513	50	01753	18563
279 --	03645	12526									
285 --	46209	10443	6-	66528	08548				6-	03748	20668
288 52	05646	46565	52	65646	47628	5-	61646	48566	50	05664	16464
273 32	65444	16668									
301 52	55547	14628	62	64535	16568	80	00762	20562	87	05654	20498
321 02	05648	58528	02	63548	46628	02	05590	16463			
299 5-	05648	18628				5-	22548	56668	50	05543	23313
292 52	05636	15368	5-	64538	49428	57	02744	16466	57	08463	12214
310 --	57108	20549	--	67109	16649				--	02628	16428
316			52	61545	47468	00	00690	16360	5-	05568	16318
333 62	03747	16768	62	63647	16668	5-	05646	20416	2-	25647	20487
334 --	03733	16328								01621	20701
340 5-	51548	14568	62	64636	47668				51	02754	17318
136			5-	05667	47427	50	05645	17567	07	05690	18328
336 --	51743	12458		64833	16568					03742	20538
350 51	05655	14528	5-	62668	14528				52	05675	18468
368											
379 2-	57308	16558	6-	22618	14568	50	05545	20425	57	05636	20228
390 53	05556	12267	53	05554	12324	52	21445	16458	52	08445	14328
382 52	51634	14558	52	61647	15568	50	05654	18214	51	02756	18328
438 5-	02758	20518							5-	57009	55659
430 57	05654	16528	57	61745	18528				57	05636	22228
409 52	05637	48728	62	58517	18758	5-	0-746	20616	02	64638	17368

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.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 31st October
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Strong south to southwest wind, gale in exposed places; cloudy, rain at times, hill fog; mild.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh or strong southwest wind becoming temporarily moderate or light; cloudy, rain at times; mild.

GENERAL INFERENCE.

A deep depression centred near the Faroes is moving north-northeast and another disturbance off Southwest Ireland will move quickly east-northeast and later northeast. Weather will continue very unsettled with strong winds or gales in many districts but the winds will decrease temporarily in the Northwest. It will be mild generally.

FURTHER OUTLOOK.

Continuing unsettled with rain and strong winds in most districts; mild.

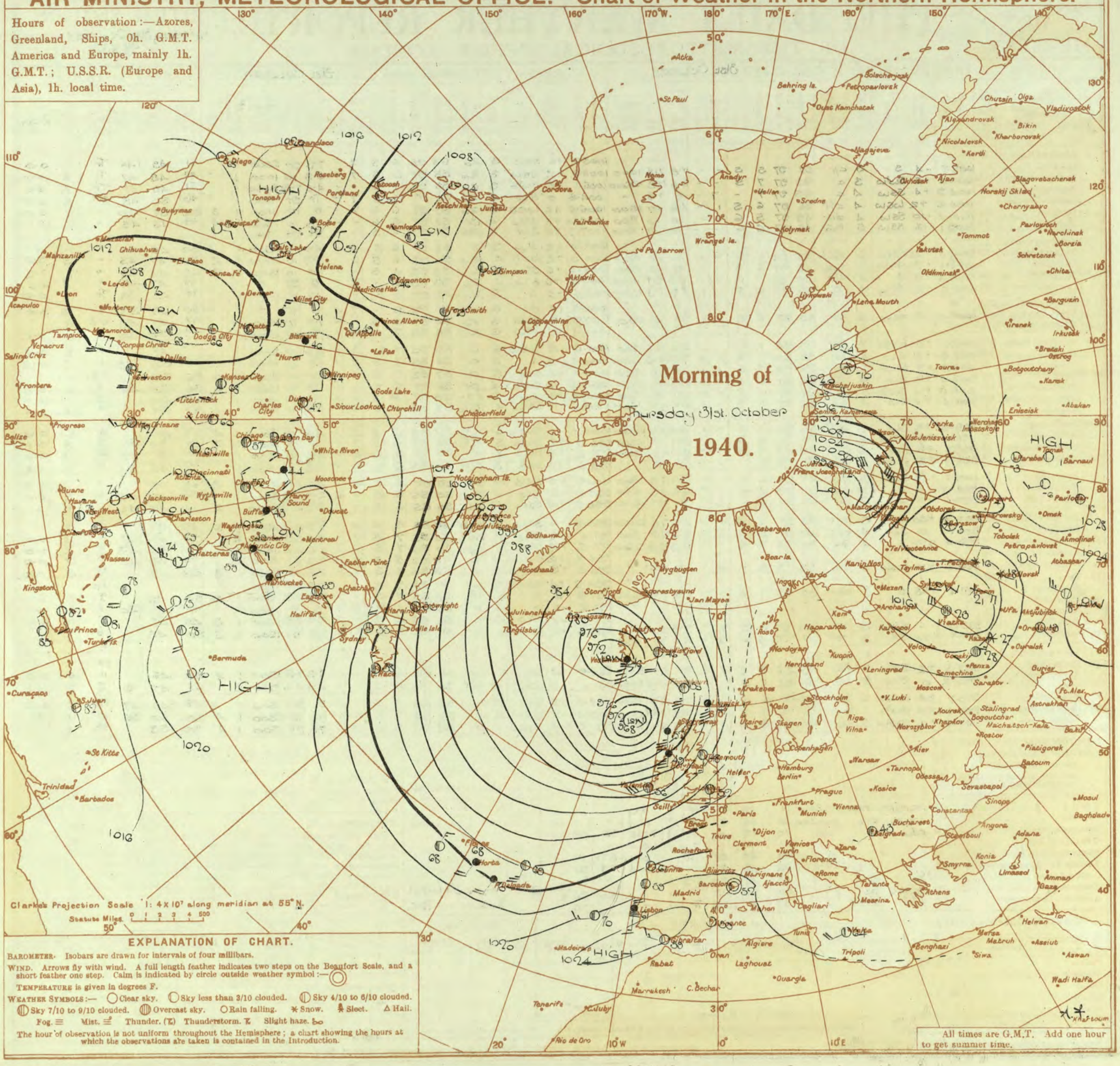
Gale warning. Districts 1.2.5.10. Southerly gale issued 1400h. 30.10.40.

Forecasts issued at 10.30h.

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

H.M.S.O. Press, Cornwall House, S.E.1.

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 31st October 1940.

No. 28,833

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	1005.7	-4	S	3	c/r	52	97	5	5	-	-	7-8	7-8	1000
	S. Farnborough	226	1005.6	-2	SW'W	3	c	53	97	7	5	-	-	4-6	7-8	2500
	Boscombe Down	417	1004.9	+4	SSW	4	c	53	97	7	-	7	-	0	7-8	-
	Calshot (Sthmtn.)	8	1006.2	+2	WSW	4	c/r	56	97	6	5	1	-	4-6	10	1500
	Lympne ...	346	1010.2	-10	SSW	4	dd	49	97	5	6	-	-	10	10	800
	Manston ...	154	1008.1	-12	SSW	5	r₀r₀	48	97	6	6	-	-	10	10	600
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1006.4	-22	SSW	6	d₀d₀	49	92	6	5	-	-	10	10	800
	Gorleston ...	5	1006.6	-30	SSW	6	r₀r₀	49	97	5	6	-	-	10	10	800
	Mildenhall ...	19	1004.3	-8	S	4	c/r	49	85	7	5	2	-	7-8	9+	1500
	Cranwell ...	240	1002.8	-16	SSW	4	z₀	48	97	5	5	-	-	2-3	2-3	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1004.3	-2	SSW	6	ir	53	97	6	5	-	-	10	10	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1002.1	+8	WSW	7	bc	56	92	7	6	-	-	4-6	4-6	1500
	Bristol ...	209	1004.2	+8	SW	4	bc	55	85	7	5	-	-	2-3	2-3	2000
	Portland Bill ...	32	1005.9	+8	SSW	5	o	55	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1006.0	+10	SW	4	z₀	56	97	6	5	-	-	10	10	1500
	The Lizard ...	240	1005.5	+10	SW'S	5	o	56	97	6	5	-	-	10	10	1500
	Scilly (St.Mary's)	163	1004.4	+4	SW	4	bc	57	97	6	5	-	-	4-6	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	999.3	+2	SW	7	bcq	56	85	7	5	-	-	4-6	4-6	2000
7	Holyhead ...	26	996.0	+8	SSW	5	c/l	56	92	6	5	-	-	7-8	7-8	2200
	Chester(Sealand)	16	998.8	+8	SSE	2	z₀	53	85	6	5	-	-	4-6	4-6	2900
8	Manchester ...	70	998.9	+2	S	3	z₀	51	92	6	-	-	-	0	0	-
10	Spurn Head ...	29	1001.1	-16	SSE	6	cq	47	97	6	5	-	-	7-8	7-8	1500
	Catterick ...	175	998.3	0	S'E	3	bc/r	47	97	4	5	-	-	4-6	4-6	1000
	Tynemouth ...	108	997.6	-10	S	3	c/r	48	92	6	-	2	-	9	9	1800
11	St. Abbs Head	280	993.4	+50	S	5	c/r	46	97	7	4	4	-	4-6	7-8	2000
	Leuchars ...	36	991.7	0	SE	4	c/r	47	97	5	5	2	-	4-6	7-8	900
12	Renfrew (Abbots I.)	19	990.6	+10	S	4	bc	51	75	7	8	-	-	2-3	2-3	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	993.6	+10	WSW	5	bc	53	75	8	-	4	-	0	2-3	-
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	981.2	+28	S	7	iR	52	85	7	8	-	-	7-8	7-8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	985.8	-6	SSW	8	ir	50	97	6	5	7	-	7-8	9+	1500
16	Lerwick ...	156	991.7	-20	S'E	9	rr	47	92	5	6	2	-	4-6	10	450
17	Blacksod Point	18														
18	Malin Head ...	84	985.5	+2	SSW	5	PR	49	85	5	3	-	-	9+	9+	800
	Aldergrove ...	268	990.2	0	S'W	5	bc	50	85	8	5	-	-	4-6	4-6	2000
19	Birr Castle ...	173	993.7	+6	WSW	6	bc	52	85	8	3	-	-	2-3	2-3	1500
20	Valentia Obsy.	30	995.1	+10	SW'S	6	c	56	75	7	9	-	-	7-8	7-8	2500
	Roches Point	22	997.4	+4	SW'W	5	bc	55	85	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 31st 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)	1005.7	+6	SSW	3	z₀	53	92	6	5	2	-	7-8	9+	2500	1	*
Croydon	1005.9	-2	SSW	3	z₀	55	97	6	5	7	-	2-3	10	1000	1	*
S. Farnborough	1006.1	+6	SW'S	3	c	55	92	7	5	-	-	4-6	7-8	5000	1	*
Boscombe Down	1004.8	0	S'W	4	z₀	54	97	6	5	7	-	Tr	9+	1000	1	*
Calshot (Sthmtn.)	1006.4	+6	WSW	5	z₀	57	97	6	5	7	-	9	10	1100	1	3
Lympne	1009.4	+6	SSW	4	dr	53	97	5	6	-	-	10	10	200	1	4
Manston	1007.7	+6	SW	4	z₀	54	97	6	5	-	-	9+	9+	800		
Shoeburyness	1007.0	+2	S'W	3	c	53	97	6	5	2	-	4-6	10	2500	1	*
Felixstowe	1006.0	+2	SW'S	4	z₀	52	97	6	5	2	-	7-8	10	4000	1	2
Gorleston	1006.0	+6	SSW	3	c	53	92	6	5	-	-	10	10	1500	1	3
Mildenhall	1004.4	+6	S'W	4	z₀	58	85	6	-	7	-	0	9+	-	1	*
Cranwell	1002.6	-2	S	3	z₀	45	97	5	5	-	-	10	10	1500	1	*
Birmingham	1002.3	+2	S	3	c	51	92	9	-	7	4	0	10	-	1	*
Upper Heyford	1003.9	-2	SSW	3	z₀	52	97	6	5	1	-	7-8	10	1500	1	*
Ross-on-Wye	1002.4	0	SSW	3	c	54	85	7	6	2	-	Tr	10	1500	1	*
Hartland Point	1001.6	-8	WSW	6	c	56	92	7	9	2	-	4-6	10	1500	1	
Bristol	1004.2	-2	S	3	c	54	85	7	5	7	-	Tr	10	1800	1	*
Portland Bill	1006.4	-10	SW	5	o	57	92	7	5	-	-	10	10	2500	1	5
Plymouth	1005.3	-6	SW'W	4	pr	56	97	6	9	-	-	10	10	1500	1	4
The Lizard	1003.0	+20	SW	5	rr	56	97	5	5	-	-	10	10	800	1	4
Scilly (St.Mary's)	1002.6	-16	SSW	4	r₀r₀	55	92	6	6	2	-	7-8	10	1200	1	3
Guernsey																
Pembroke	1000.4	-2	SW	6	r₀r₀	56	92	6	5	2	-	4-6	10	2000	1	4
Holyhead	996.3	+2	SW'S	5	c/l	55	97	6	5	7	-	Tr	10	2500	1	3
Chester(Sealand)	999.2	+8	SW'S	2	ir	53	75	6	6	2	-	4-6	10	1200	1	*
Manchester	999.6	+2	SSE	3	c/pr	52	85	6	9	-	-	7-8	10	800	1	
Spurn Head	1000.7	+4	SE'S	4	bc	49	97	6	5	4	-	4-6	4-6	4000	1	3
Catterick	998.0	-2	SW	4	z₀	50	85	6	8	-	6	2-3	7-8	2000	1	*
Tynemouth	996.5	-4	SSW	4	bc	50	85	6	2	-	-	2-3	2-3	2500	1	2
St. Abbs Head	993.6	-6	SSW	4	bc/pr	49	85	8	2	4	-	2-3	2-3	2500	1	2
Leuchars	991.4	+8	SSW	4	bc	50	85	7	5	7	-	2-3	2-3	4500	2	*
Renfrew (Abbots I.)	991.2	+18	SSW	4	bc	50	85	7	8	-	-	4-6	4-6	2000	1	*
Eskdalemuir	994.2	+18	SW'W	3	c	47	92	8	5	2	-	7-8	9+	800	1	
Point of Ayre	991.8	+8	WSW	5	c	53	85	8	8	1	-	4-6	10	2500	1	3
Tiree	984.3	+4	SSW	5	c	51	92	7	5	-	-	7-8	7-8	1800		
Stornoway	981.6	0	S	5	iR	50	85	7	8	-	-	7-8	7-8	800	1	3
Dalwhinnie	988.2	-2	S	6	ir	45	92	6	5	2	-	9	10	800	1	*
Aberdeen	990.1	-4	S'W	4	c	51	85	6	8	-	-	7-8	7-8	2500	1	3
Wick	985.8	-4	S	6	c	51	92	7	5	7	8	4-6	9+	1500	1	3
Lerwick																
Blacksod Point																
Malin Head	986.5	+4	SSW	6	cjp	51	85	6	8	-	-	7-8	7-8	1500	1	4
Aldergrove	991.4	-2	SSW	4	bc	50	85	8	5	-	-	4-6	4-6	900	2	*
Birr Castle	994.6	+2	SW	3	c	52	85	7	5	-	-	9	9	1500	1	*
Valentia Obsy.	995.4	-2	SW'S	3	c	53	85	7	5	-	-	10	10	2500	1	4
Roches Point	996.2	-14	WSW	4	ir	53	92	8	6	2	-	7-8	9+	1500	1	4

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 30th Hrs. (36)
London (Kew)	51	49	46	Tr	1	0.0
Croydon	49	48	47	Tr	2	0.0
S. Farnborough	51	49	47	Tr	2	0.1
Boscombe Down	46	50	48	0.2	8	0.0
Calshot (Sthmtn.)	53	51	50		7	0.0
Lympne	49	46	45	-	2	2.1
Manston						
Shoeburyness	50	42	44	-	0.3	*
Felixstowe	50	47	45	-	3	5.6
Gorleston	48	44	39	-	7	3.3
Mildenhall	49	47	41	-	4	4.0
Cranwell	45	42	38	Tr	10	0.0
Birmingham	50	48	43	1	15	0.0
Upper Heyford	49	47	45	0.2	8	*
Ross-on-Wye	54	52	50	3	11	0.1
Hartland Point		47		5	2	0.4
Bristol	55	52	49	1	7	0.2
Portland Bill	55	53		0.5	4	
Plymouth	56	55	54	4	4	0.5
The Lizard	57	54	*	3	3	0.0
Scilly (St.Mary's)	57	54		4	2	0.0
Guernsey						
Pembroke	57	55	*	11	0.1	0.0
Holyhead	55	54	51	9	3	0.1
Chester(Sealand)	52	51	42	5	3	3.0
Manchester	50	48	44	4	2	0.0
Spurn Head	48	45	*	-	3	0.2
Catterick	45	43	43	6	9	0.0
Tynemouth	48	45	42		7	*
St. Abbs Head	45	38	*	3	9	*
Leuchars	48	45	37	2	14	0.0
Renfrew (Abbots I.)	52	49	43	8	2	0.0
Eskdalemuir	46	45	44	8	17	0.0
Point of Ayre	53	49		13	8	0.0
Tiree			*	20		
Stornoway	52	49	*	9	9	0.0
Dalwhinnie	47	41	40	2	24	0.0
Aberdeen	48	47		5	13	0.0
Wick	50	48	*	6	2	*
Lerwick			*	2		
Blacksod Point			*	19		*
Malin Head	55	46	*	11	4	0.0
Aldergrove	55	47	41	13	Tr	0.1
Birr Castle	58	49	47	13	6	0.2
Valentia Obsy.	59	50	58	15	4	2.1
Roches Point	58	53	*	23	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. (To-day)
Kew	18	cm₀ir₀dcm₀	cm₀cz₀	cr₀cm₀	51	49	46	Tr	1	0.0	*	*	6
Croydon	217	cz₀ir₀	cz₀	or₀m₀bcm₀	49	48	47	Tr	2	0.0	*	*	6
Greenwich (Royal Observatory)	149	cd₀	c	crc	49	48	44	Tr	1	0.0	76	88	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	52	48	44		1	0.0	82	91	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	56	40	37	-	0.9	0.0	79	91	*
Camden Square	110	o	c	*	47	47	39	0.3	1		*	91	*
Kensington	80	cpmc	bc	*	50	50	43	Tr	1		80	96	*
Hampstead Observatory	450	ofd	bcor	o	47	*	42	Tr	1	0.0	*	98	*

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.
0.3	9h 30th	<0.1	14-24h 30th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome														

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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Preciptious.
4 Rough. 9 Confused.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. † Sea disturbance reported from Dungeness.

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