M.O. Form 2373

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THE DAILY WEATHER REPORT

BRITISH SECTION

1st July to 30th September

1940

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

INTRODUCTION

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

NOTES REGARDING THE BRITISH SECTION.

Description of each issue :—The British section is issued daily by 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 British health resorts for the previous day, arranged under forecast districts.

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

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

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

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

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

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

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

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

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

Sector.	Hour of Observation.
U.S.S.R. (approx. 170° E. to 30° E.).	1h. local time.
30° E. to 170° W.	0h. or 1h. G.M.T.

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

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

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

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

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

THE INTERNATIONAL AND UPPER AIR SECTIONS.

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

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

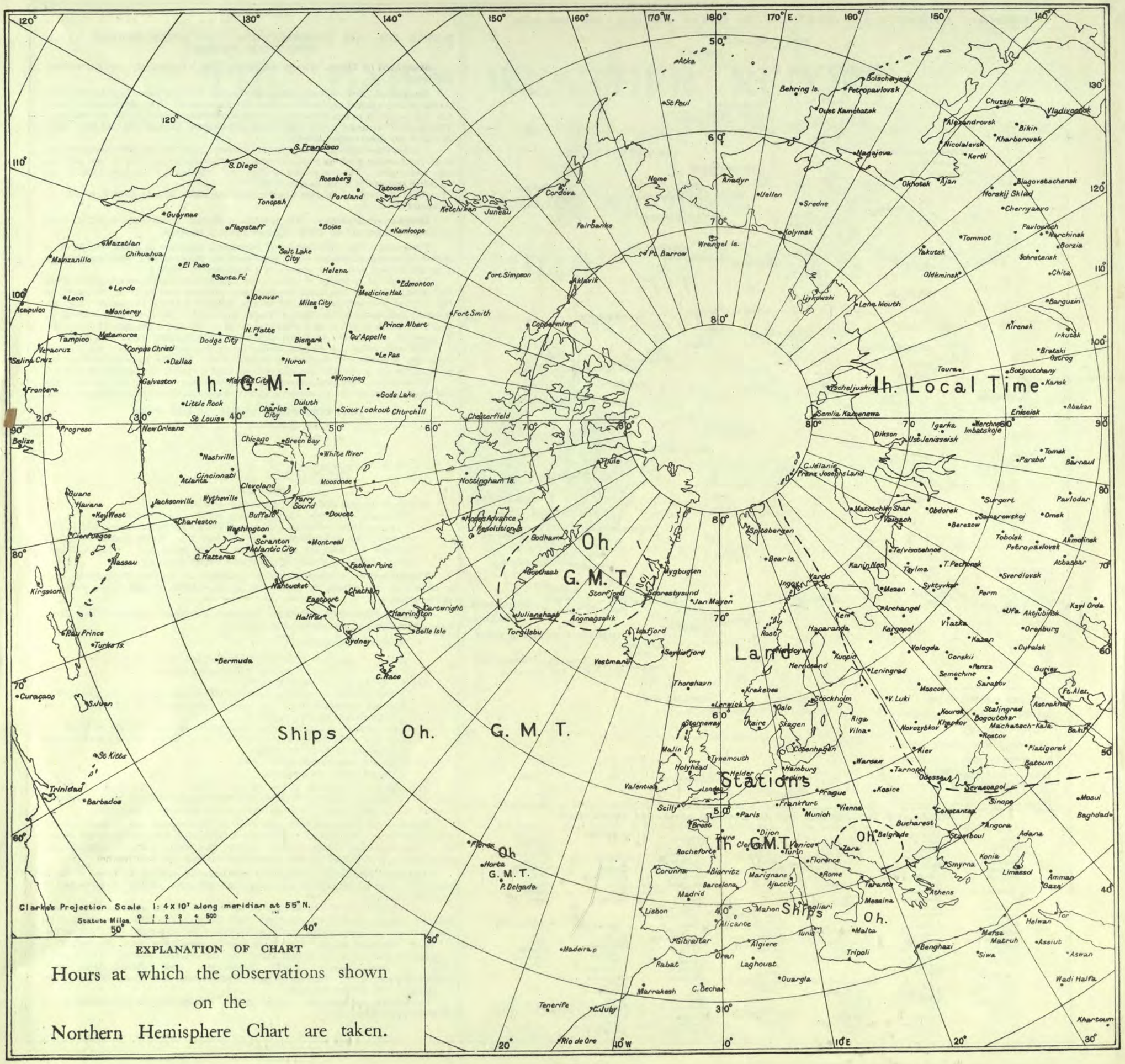
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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.



EXPLANATION OF CHART

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

FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND

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

FORECAST DISTRICTS and the Counties comprised within them

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. *Mid Scotland.*
Perth.

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

16. *Orkneys and Shetlands.*

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

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

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

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

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

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

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

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

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

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

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

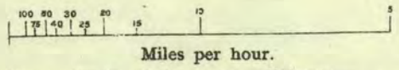
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the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

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

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

GEOSTROPHIC WIND SCALE FOR

8 mb isobars on $1 : 4 \times 10^7$ Charts.
or 2 mb ,, ,, $1 : 10^7$,,



Miles per hour.

This scale applies under the following conditions :—

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

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

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

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

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

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

where x is the vapour pressure in mb.

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

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

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

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

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

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

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

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

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Page 1.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

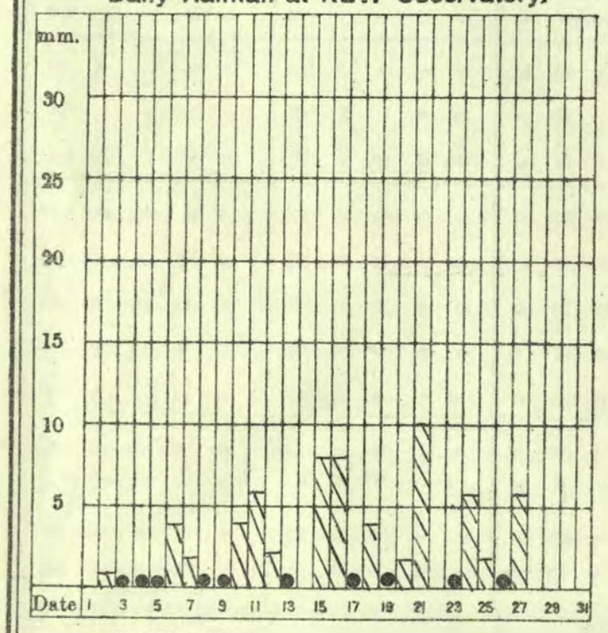
MONTHLY SUPPLEMENT, JULY, 1940. No. 283.

Cool and unsettled; frequent thunder; exceptionally wet in NE districts.

The month was exceptionally wet in East Scotland and Northeast England, with record amounts of rain at Aberdeen, Lewchars and Tynemouth, the first-mentioned having a total of no less than 195mm. Rainfall was above average in most parts of the British Isles and temperature was below average. Sunshine was markedly deficient in East and North Scotland. Thunderstorms were frequent and often widespread.

At the beginning of the month a pronounced belt of high pressure covered the southern part of the country, and the highest temperatures of the month were recorded in the Southeast on the 2nd; up to 80°F. and slightly higher at several places. The belt of high pressure rapidly collapsed as a depression spread from the northward, and for the rest of the month there was little interruption in the unsettled type of weather, with depressions over or to northwards of the British Isles. Strong winds were experienced at times on the coasts, occasionally reaching gale force. St. Anne's Head recorded a gust of 58mph. on the 12th. The wettest spell was from 10th-18th. A deepening depression over the British Isles on 10th. gave widespread thunderstorms and heavy rainfall, Boscombe Down having 30mm. in the day and Aberdeen 56mm. in the night. This depression remained over the British Isles, ultimately dying out off Scilly. A small depression moved west from the South Baltic to give more rain in East Scotland on 13th-15th; and another depression moved northwest from Holland and gave considerable rain in eastern and northern areas on 17th. (57mm. at Tynemouth in the 24 hours), and moderate falls on 18th. During all this period East Scotland had rain on almost every day, and very little sunshine. On 10th., 14th. and 17th. temperatures at St. Abb's Head failed to exceed 53°F. Conditions remained unsettled until 28th. when an anticyclone advanced from the Atlantic and weather became fair, with temperatures rising to 77°F. at Lewchars and Birr Castle on 31st.

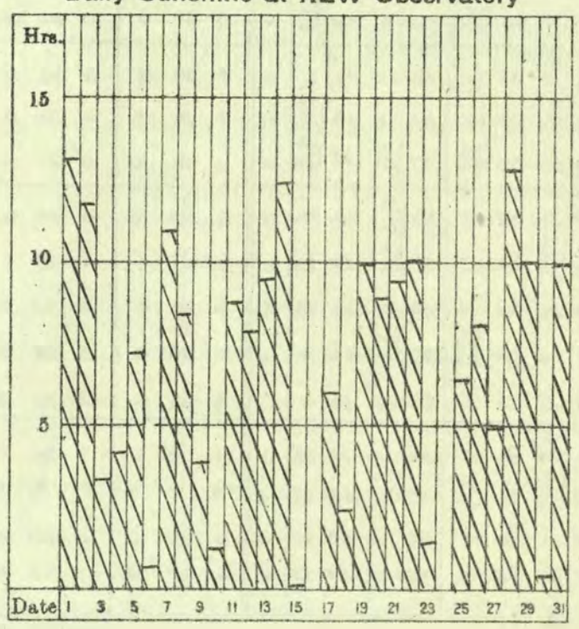
Daily Rainfall at KEW Observatory.



● = Less than 0·5 mm.

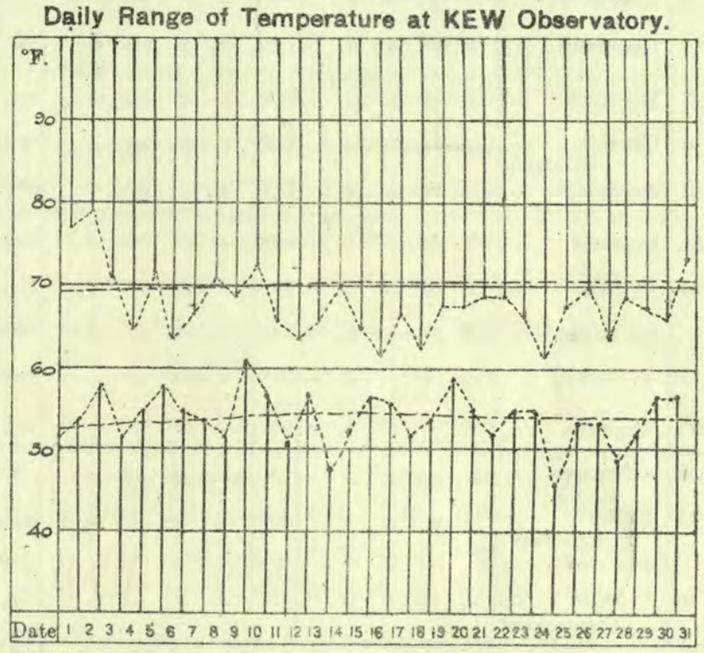
RAINFALL. Total for Month. 68 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 207 hrs.

Daily Range of Temperature at KEW Observatory.



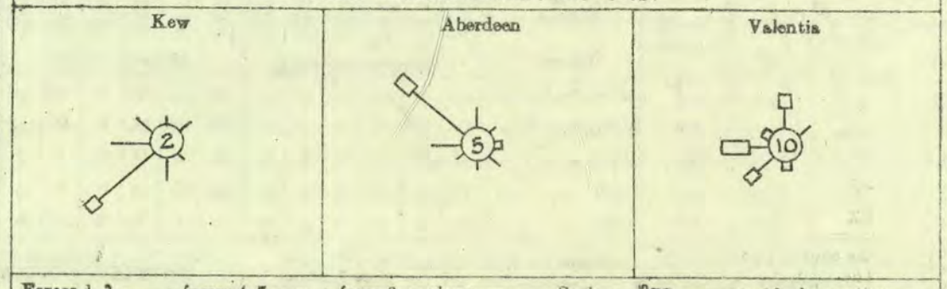
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure Mean	Pressure Difference from average	Temperature Mean	Temperature Difference from average
	mb.	mb.	°F.	°F.
Kew	1013·5	-2·3	61·2	-3·3
Aberdeen	1009·9	-3·1	55·9	-2·0
Valentia	1015·1	-1·0	56·9	-2·3

*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; 10mm. to 10 observations.
The figure in the centre of the circle gives the number of calms.

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

	miles.
Kew ...	5423
Aberdeen ...	3999
Lerwick ...	12173
Valentia ...	7317

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District.	Stations.	† TEMPERATURE. Number of daily readings within fixed limits. Maximum. 51°-59°	60°-68°	69°-77°	78°-86°	Average Maximum. °F.	Minimum. 33°-41°	42°-50°	51°-59°	60°-68°	Average Minimum. °F.	Extremes—Warmest and Coldest. Days. Highest Max. °F.	Date.	Lowest Max. °F.	Date.	Nights. Highest Min. °F.	Date.	Lowest Min. °F.	Date.	Number of Ground Frosts.	LOW CLOUD. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	FOG, MIST and GOOD VISIBILITY. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
1	London ... (Kew Obsy).	0	18	12	1	72·8	0	3	27	1	56·2	79	2	62	16, 24	61	10	46	25	0	0	27	0	0	30	0	0	30	0	0	0	0	0	21	0	0	0	0	27
	Croydon ...	0	13	17	1	71·9	0	7	23	1	54·6	81	2	61	16	61	10	45	28	0	3	25	0	2	28	0	0	30	0	0	0	0	0	18	0	0	0	0	26
	Calshot** ... (Southampton)	0	20	11	0	69·8	0	3	26	2	56·0	76	31	63	12, 24	62	10	48	25	0	3	21	3	1	29	1	1	26	2	0	0	0	0	22	0	0	0	0	26
	Lympne ...	0	27	4	0	68·8	0	11	20	0	53·8	74	10	60	19	59	10	47	25	0	10	15	1	5	25	0	3	28	0	0	1	0	0	23	0	0	0	0	26
2	Shoeburyness ...	0	12	19	0	71·8	0	8	21	2	54·4	76	2	64	16	61	10	46	28	0	3	17	2	1	28	0	2	25	1	0	0	1	0	21	0	0	0	0	29
	Gorleston ...	1	24	6	0	67·9	0	6	24	1	55·4	73	3	59	27	61	10	47	5, 28	0	1	19	0	0	29	0	1	28	0	0	0	0	0	19	0	0	0	0	28
	Cranwell ...	0	16	15	0	71·0	0	11	20	0	52·6	77	2	62	16, 17	59	2, 10	44	28	0	6	14	2	3	26	0	1	24	1	0	0	0	0	15	0	0	0	0	27
3	Birmingham ... (Edgbaston)	1	24	6	0	69·3	0	11	20	0	54·1	74	1	58	12	59	10	47	8	0	5	17	0	2	27	0	1	28	0	0	0	0	2	13	0	0	0	0	26
4	Ross-on-Wye ...	0	18	13	0	70·6	0	11	20	0	53·7	77	1	61	4, 10, 11, 24	58	3	42	29	0	0	26	0	1	29	0	0	29	0	0	1	0	0	29	0	0	0	0	29
5	The Lizard ...	0	29	2	0	*	0	3	28	0	*	70	31	60	18, 24	58	3	50	23, 25, 28	*	0	31	0	0	31	0	0	31	0	0	0	0	1	29	0	0	1	1	28
7	Holyhead ...	2	29	0	0	62·9	0	1	30	0	55·1	65	13, 29	55	11	57	30	50	2	0	9	20	2	3	26	0	3	23	3	0	0	0	0	25	0	0	0	0	26
8	Chester ... (Sealand)	1	22	8	0	68·8	0	7	24	0	53·2	73	9, 15	59	12	58	16	45	23, 28	0	6	21	2	0	30	0	1	29	0	0	0	1	2	17	0	0	0	1	26
10	Tynemouth ...	12	16	3	0	64·7	0	7	24	0	53·9	73	30	56	10, 14	57	3, 31	47	13, 28	0	0	31	0	0	31	0	0	31	0	0	0	0	1	11	0	0	1	0	18
11	Leuchars ...	4	22	5	0	65·8	0	11	20	0	50·9	77	31	57	17	55	16, 17, 30	46	28	0	3	27	0	5	26	0	5	26	0	0	0	0	0	27	0	0	0	0	29
12	Renfrew ...	4	23	4	0	66·0	1	13	17	0	51·5	70	13, 15, 31	56	17	56	14, 30	40	23	0	2	27	1	1	29	1	1	29	1	0	0	0	0	22	0	0	0	0	26
	Eskdalemuir ...	8	21	2	0	64·0	6	18	7	0	48·8	75	31	54	14	56	16	35	23	2	8	19	0	4	27	0	10	21	0	0	0	0	0	25	0	0	0	0	28
13B	Stornoway	18	12	1	0	60·9	0	14	17	0	50·5	69	16	54	11, 13, 18	55	30, 31	44	5	*	5	26	0	5	26	0	4	27	0	0	0	0	0	26	0	0	1	0	23
15	Aberdeen ..	12	16	3	0	64·1	0	13	18	0	51·7	71	31	55	14	59	30	44	6	0	8	22	0	4	27	0	6	25	0	0	0	0	0	19	0	0	0	0	26
18	Aldergrove ...	4	25	2	0	*	1	16	14	0	*	69	15, 28	55	11	58	30	40	28	0	11	18	1	1	30	0	1	30	0	0	1	0	0	26	0	0	0	0	30
19	Dublin ... (Phœnix Park)	0	31	0	0	67·1	0	18	13	0	50·6	68	8, 9, 25	60	4, 11	57	31	44	28	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birr Castle ...	1	27	3	0	67·0	1	16	14	0	52·8	77	31	59	4	56	27	40	10	0	0	27	0	0	30	0	0	28	0	0	0	2	0	29	0	0	0	0	31
20	Valentia ... (Cahirciveen)	2	28	1	0	63·7	0	9	22	0	54·7	73	31	56	12	56	9	44	29	0	4	27	0	1	29	1	4	27	0	0	0	0	0	27	0	0	0	0	30

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Mildenhall. Normal Temp. °F.	Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.	Scilly. Mean. °F.	No. of Reports.
950	1830	57·5	55·8	62	52·0	62	51·7	30
850	4840	47·3	43·9	62	41·6	62	41·8	30
750	8180	38·5	33·5	62	31·7	62	32·5	30
650	11920	27·5	22·6	62	20·7	62	22·5	30
550	16170	13·1	9·2	62	7·5	62	8·7	30

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 (kilometres per hour)	Plymouth (Mt. Batten). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100 (kilometres per hour)	Holyhead. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100 (kilometres per hour)	Renfrew. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100 (kilometres per hour)	Station. Height. Metres.
500 above ground.	102	42	53	5	0	0	88	48	36	2	0	0	37	18	16	2	0	0	113	55	53	5	0	0	500 above ground.
1000 above M.S.L.	84	39	41	3	0	0	78	45	26	6	0	0	31	15	15	1	0	0	98	41	53	3	1	0	1000 above M.S.L.
2000 " "	43	18	21	1	2	0	41	21	15	2	1	0	24	10	13	1	0	0	49	18	31	0	0	0	2000 " "
3000 " "	25	8	15	2	0	0	22	6	13	2	0	0	13	5	7	1	0	0	22	8	12	2	0	0	3000 " "
4000 " "	12	2	9	1	0	0	11	1	8	2	0	0	6	1	4	1	0	0	11	5	4	2	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 ..... JULY ..... 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.	RAINFALL. ‡ Number of days with amount. 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hrs. mm.	Date.	Total for past 12 months. mm.	Difference from Average. mm.	Total for Month.‡ mm.	Difference from Average. mm.	Highest and Lowest Totals on record for Month. First year of record.	Highest. mm.	Year.	Lowest. mm.	Year.	Days with Thunder.	Days with Snow or Sleet.
1	London ... (Kew Obsy).	2	6	4	8	11	13·4	1	1555	+86	207	+13	1880	334	1911	104	1888	14	3	8	6	0	0	10	21	727	+121	68	+13	1856	124	1880	4	1921	4	0
	Croydon ...	3	5	4	6	13	14·1	1	1546	+21	208	−12	1922	297	1928	132	1927	15	5	8	2	1	0	16	15	747	+68	61	+1	1921	105	1936	3	1921	2	0
	Calshot** ... (Southampton)	1	9	3	7	11	14·1	11	1818	+72	218	−13	1881	360	1911	116	1888	12	10	4	3	2	0	21	10	771	+125	85	+44	1871	157	1888	3	1911	3	0
	Lympne ...	5	3	4	8	11	15·1	1	1773	+8	214	−26	1921	307	1935	153	1927, 1937	15	4	9	2	1	0	17	27	862	+138	59	+5	1920	126	1927	6	1936	3	0
2	Shoeburyness ...	2	7	6	6	10	13·0	28	1622	−32	196	−31	1919	311	1928, 1936	123	1919	15	3	7	3	0	1	31	15	656	+153	90	+43	1920	81	1920	7	1921	6	0
	Gorleston ...	0	6	7	7	11	13·2	12	*	*	212	+1	1908	309	1935	103	1910	15	4	5	4	3	0	21	15	719	+97	121	+62	1871	150	1875	7	1897	6	0
	Cranwell ...	1	5	10	7	8	13·9	29	1504	−34	188	−18	1921	266	1935	113	1937	15	5	5	5	0	1	27	10	621	+31	77	+18	1917	251	1932	10	1921	6	0
3	Birmingham ... (Edgbaston)	1	7	6	12	5	11·1	28	1325	+21	183	+12	1887	271	1911	67	1887	10	5	10	6	0	0	15	10	801	+127	81	+22	1893	167	1936	7	1911	4	0
4	Ross-on-Wye ...	1	9	8	7	6	11·3	23	1513	+28	167	−25	1915	271	1934	122	1927	15	6	6	3	1	0	20	19	680	−37	73	+15	1859	197	1872	6	1911, 1935	1	0
5	Falmouth ... (Observatory)	0	9	4	3	15	14·4	1	1796	+86	219	+2	1881	346	1911	135	1890	12	6	10	3	0	0	9	16	993	−114	54	−18	1871	178	1924	8	1913	*	*
7	Holyhead ..	3	6	3	7	12	14·2	7	1616	+66	213	+22	1914	285	1934	123	1920	13	8	6	3	1	0	24	11	826	−61	62	−4	1871	137	1920	8	1935	1	0
8	Chester ... (Sealand)	1	6	9	7	8	13·1	8	1498	+122	185	+12	1928	244	1934	112	1931	11	7	7	5	0	1	45	12	720	+82	104	+46	1922	132	1939	18	1934	1	0
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*	*	*	*	9	3	10	7	0	2	57	17	768	+147	174	+113	1915	140	1926	13	1935	5	0
11	Leuchars ...	6	9	9	4	3	14·9	8	1356	−114	112	−60	1922	244	1935	91	1931	9	6	7	4	2	3	31	17	704	+51	181	+115	1922	135	1936	17	1928	3	0
12	Renfrew ...	6	4	11	3	7	12·1	31	1189	−4	153	+4	1921	231	1934	86	1931	11	5	10	4	1	0	22	11	804	−135	92	+21	1921	136	1936	35	1935	3	0
	Eskdalemuir ...	10	3	6	7	5	12·7	31	1267	+66	134	−13	1910	217	1935	75	1931	9	3	9	7	2	1	29	14	1198	−231	169	+65	1910	225	1938	25	1913	2	0
13B	Stornoway	8	10	5	4	4	12·3	7	1223	+8	101	−44	1881	227	1917	57	1939	4	6	14	6	0	1	27	11	921	−345	119	+42	1870	175	1871	22	1913	1	0
15	Aberdeen ...	5	12	10	3	1	9·8	6	1288	−41	93	−59	1881	239	1911	83	1931	6	6	7	9	2	1	59	10	738	−10	195	+124	1871	150	1918	14	1878	5	0
18	Aldergrove ...	4	8	11	6	2	10·5	27	1291	*	126	*	1927	217	1934	87	1939	8	4	10	8	1	0	16	11	912	+74	104	+33	1926	154	1939	27	1935	3	0
19	Dublin ... (Phœnix Park)	3	8	9	7	4	12·7	17	1247	−190	146	−24	1881	238	1898	58	1938	6	7	11	5	2	0	18	12	799	+97	104	+36	1865	165	1936	16	1868, 1935	*	*
	Birr Castle ..	3	5	6	11	6	11·4	10	1361	+55	177	+28	1881	224	1911	93	1936	7	9	10	4	1	0	16	12	775	−52	86	+11	1862	186	1880	8	1863	1	0
20	Valentia ... (Cahirciveen)	2	5	5	6	13	14·5	28	1714	+316	228	+7	1880	235	1918	71	1932	7	11	8	5	0	0	11	15	1242	−172	67	−29	1866	223	1937	22	1898	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	1	1	6	8	12	3	0	0
Ross-on-Wye ...	0	1	0	3	8	5	10	3	1	0
Falmouth (Obsy.)	0	0	4	10	16	1	0	0	0	0
Renfrew ...	0	0	4	4	7	10	6	0	0	0
Eskdalemuir ...	0	1	5	3	4	12	6	0	0	0
Aberdeen ...	2	2	2	11	7	6	1	0	0	0
Valentia ...	0	1	2	7	16	5	0	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each type was recorded.

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)	8	23	0	0	0	0	0	0	0	0
Ross-on-Wye	16	15	0	0	0	0	0	0	0	0
Renfrew ...	10	21	0	0	0	0	0	0	0	0
Eskdalemuir	2	29	0	0	0	0	0	0	0	0
Aberdeen ...	5	26	0	0	0	0	0	0	0	0
Valentia ...	19	12	0	0	0	0	0	0	0	0

CODE for State of Ground.

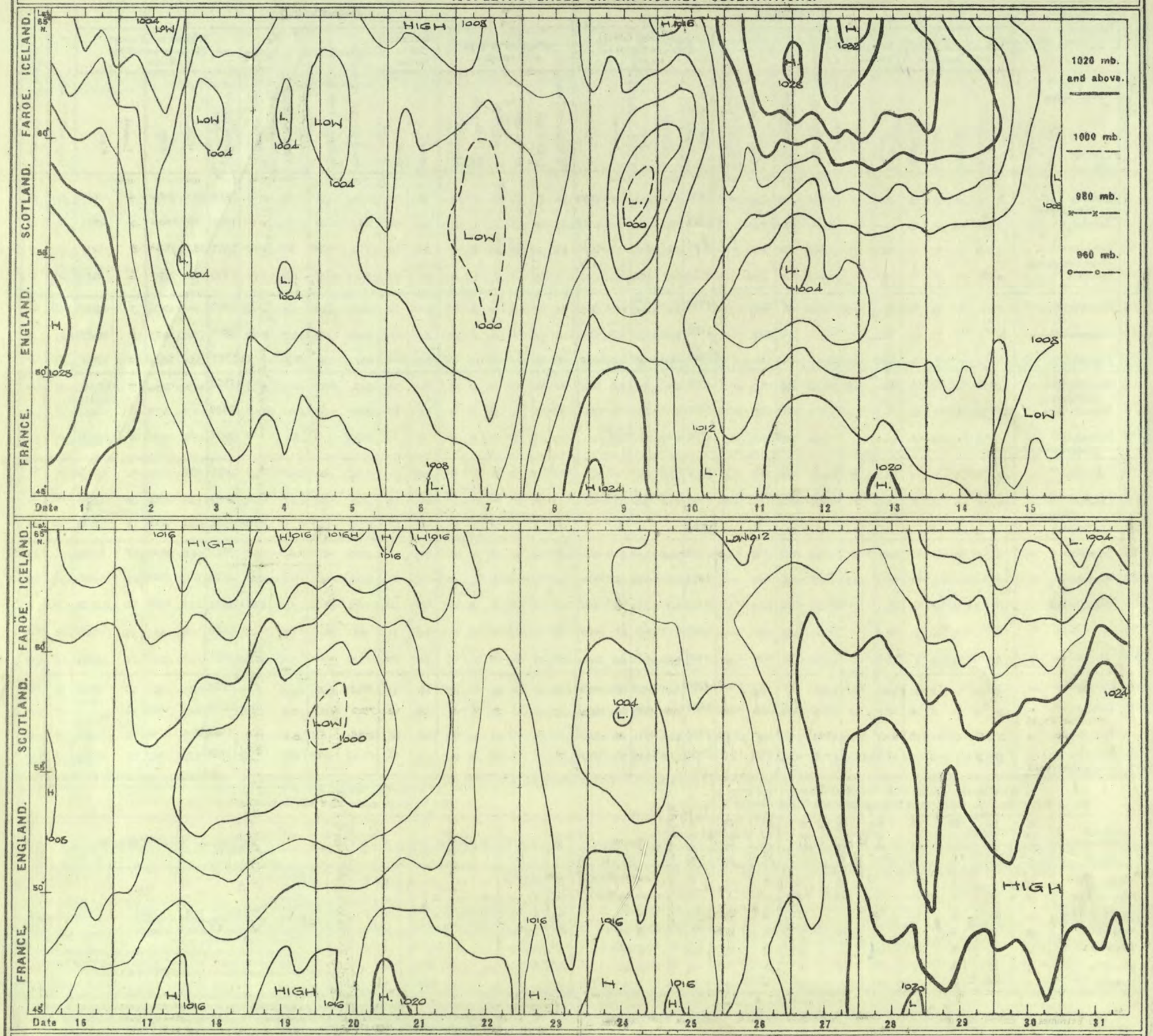
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry.
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow, greater than 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 ..... JULY 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.28/2315 Pr.8049 D.5702 Gp.949 370 8/40

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Monday 1st July 1940.
No. 28711.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1028·3	−6	NNW	3	c	71	35	8	8	–	1	4-6	7-8	4000
	Croydon	1027·7	−6	NE	3	c	74	45	8	1	–	1	4-6	7-8	4000
	S. Farnborough	1027·9	−8	N	3	c	74	35	9	7	–	2	4-6	7-8	4000
	Boscombe Down	1028·5	−4	N'W	3	bc	70	45	8	1	–	1	4-6	4-6	4000
	Calshot (Soton.)	1027·8	−6	N	2	c	76	45	8	1	–	1	4-6	7-8	5700
	Lympne ...	1027·7	−4	WSW	2	bc	71	45	8	1	–	1	1	4-6	4000
	Manston ...	1028·2	−2	ENE	3	bc	69	55	7	–	–	2	0	2-3	–
2	Shoeburyness ...	1028·3	−10	ESE	4	bc	69	55	8	5	–	–	4-6	4-6	4000
	Felixstowe ...	1028·1	0	E	4	bc	67	65	7	1	–	6	4-6	4-6	4000
	Gorleston ...	1028·4	+4	NE	4	b	61	75	7	1	4	–	1	1	2500
	Mildenhall ...	1028·7	−2	N	3	bc	68	55	8	1	–	1	4-6	4-6	4000
	Cranwell ...	1029·3	−6	N	2	bc	72	35	8	1	–	1	4-6	4-6	4000
3	Birmingham	1029·4	−2	NE	2	c	68	45	8	8	–	–	9	9	4000
	Upper Heyford	1028·9	−4	NNE	2	c	71	45	8	1	–	2	4-6	7-8	2500
4	Ross-on-Wye ...	1029·3	0	W'S	2	c	69	45	9	7	–	2	4-6	7-8	4000
5	Hartland Point	1029·9	−2	NE	3	bc	62	85	8	2	–	5	2-3	4-6	2500
	Bristol	1029·0	−8	N'E	2	c	70	45	9	1	–	6	4-6	7-8	4000
	Portland Bill ...	1029·1	−6	W	2	bc	67	85	8	1	4	–	4-6	4-6	4000
	Plymouth ...	1029·3	−2	SSW	2	bc	64	65	8	1	–	2	2-3	4-6	2500
	The Lizard ...	1029·7	0	ESE	2	bc	67	65	8	8	9	–	2-3	4-6	2500
	Scilly (St.Mary's)	1029·9	−2	NNE	2	bc	65	75	8	–	4	4	0	2-3	–
	Guernsey ...	1028·0	−4	ENE	2	bc	67	65	7	–	3	8	0	2-3	–
6	Pembroke ...	1030·1	−2	NWN	2	bc	64	65	8	2	4	3	1	4-6	2500
7	Holyhead ...	1030·8	0	NNW	2	c	60	75	9	1	–	6	1	7-8	2500
	Chester (Sealand)	1030·4	−2	WNW	3	c	67	55	9	1	–	6	2-3	7-8	4000
8	Manchester ...	1029·9	−2	WNW	3	c	68	45	8	1	3	–	2-3	7-8	4000
10	Spurn Head ...	1029·3	0	N	4	bc	63	65	7	2	–	1	1	2-3	1500
	Catterick ...	1029·3	−6	NNW	2	bc	69	45	8	1	–	4	1	2-3	4000
	Tynemouth ...	1030·1	+4	E	3	bc	59	75	8	7	3	2	2-3	4-6	2500
11	St. Abbs Head	1029·5	+2	N	2	bc	59	55	8	1	4	–	1	2-3	2500
	Leuchars ...	1029·2	−2	SE	2	b	67	45	8	1	–	–	1	1	4000
12	Renfrew (Abbots I.)	1029·9	−2	SW	3	bc	66	45	8	1	–	2	4-6	4-6	4000
	Eskdalemuir ...	1029·2	−2	S	1	bc	63	45	8	1	–	1	2-3	4-6	4000
	Point of Ayre ...	1031·2	+2	SE'S	2	bc	63	75	8	1	–	6	1	4-6	4000
13A	Tiree	1028·7	+2	SSW	4	c	59	75	8	5	3	–	4-6	7-8	4000
13B	Stornoway ...	1027·6	+10	SSE	6	c	58	75	7	8	7	–	7-8	9+	1500
15	Dalwhinnie ...	1028·8	0	S	2	bc	64	45	8	4	6	1	1	2-3	4000
	Aberdeen ...	1029·3	+2	SSE	3	bc	64	45	8	7	–	1	2-3	2-3	4000
	Wick	1027·9	+4	SSW	3	bc	62	55	8	8	6	4	2-3	4-6	2500
16	Lerwick... ...	1028·1	+16	SW	4	c	55	85	8	5	7	–	4-6	7-8	1500
17	Blacksod Point..	1028·9	−2	S	4	c	60	85	7	5	–	–	10	10	1500
18	Malin Head ...	1029·1	−2	S	3	bc	63	65	8	4	–	–	2-3	2-3	5700
	Aldergrove ...	1029·8	−4	WSW	1	bc	67	55	8	1	3	9	1	4-6	2500
19	Birr Castle ...	1030·5	−4	S	1	c	66	55	8	8	7	–	7-8	9	1500
20	Valentia Obsy. †	1030·8	−2	S	4	c	64	65	8	3	4	1	4-6	9	2500
	Roches Point ...	1031·2	−2	SSE	2	c	63	75	8	2	5	5	2-3	7-8	2500

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

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)	1027·9	−4	E	4	bc	71	45	7	5	–	1	4-6	4-6	2500	0	*
Croydon	1027·7	0	E	3	bc	70	55	8	4	–	5	2-3	4-6	5700	0	*
S. Farnborough	1027·5	−2	NNW	2	bc	73	35	9	4	–	2	2-3	4-6	4000	0	*
Boscombe Down	1027·7	−4	N'E	3	bc	73	35	8	1	–	2	1	4-6	4000	0	*
Calshot (Soton.)	1027·1	−6	SW	3	bc	73	55	7	4	6	1	2-3	4-6	7200	0	2
Lympne	1028·3	+2	NE	4	bc	64	55	8	–	–	1	0	2-3	–	0	§3
Manston	1028·8	+2	NE	4	c	63	75	8	–	3	2	0	7-8	–	0	*
Shoeburyness	1028·8	−2	ENE	4	c	64	65	8	7	4	6	4-6	7-8	5700	0	*
Felixstowe	1028·1	0	ENE	4	c	63	75	8	4	–	6	1	7-8	4000	0	2
Gorleston	1029·0	0	NNE	4	bc	62	75	7	–	4	–	0	2-3	–	0	2
Mildenhall	1029·0	+2	NEN	3	c	69	45	9	1	–	4	1	7-8	4000	0	*
Cranwell	1029·5	+2	EN	3	bc	63	65	8	–	–	1	0	2-3	–	0	*
Birmingham	1028·8	−4	NNW	2	c	69	45	8	7	–	2	4-6	7-8	4000	1	*
Upper Heyford	1028·1	−2	NEN	2	c	72	45	8	1	–	6	4-6	7-8	4000	0	*
Ross-on-Wye	1028·3	0	ENE	2	bc	70	45	9	1	–	2	1	2-3	4000	0	*
Hartland Point	1029·1	−6	NNE	3	bc	59	75	8	1	4	4	1	4-6	2500	0	2
Bristol	1028·2	−4	N'E	1	bc	70	45	8	4	–	1	4-6	4-6	5700	0	*
Portland Bill	1027·2	−14	W	2	c	63	85	8	1	4	–	4-6	7-8	4000	1	3
Plymouth	1028·5	−6	SW	2	bc	67	55	8	1	–	4	1	2-3	2500	0	2
The Lizard	1028·8	−6	NW	2	bc	67	65	8	5	–	–	2-3	2-3	2500	0	1
Scilly (St.Mary's)	1029·4	−2	NNE	3	b	62	75	8	–	4	–	0	1	–	0	2
Guernsey	1027·4	−4	N'W	2	bc	65	65	7	–	3	8	0	2-3	–	0	2
Pembroke	1029·4	0	N'E	3	bc	64	55	8	–	7	2	0	4-6	–	0	1
Holyhead	1030·2	−2	NNE	2	c	59	75	8	5	3	1	9	9+	4000	0	1
Chester (Sealand)	1030·5	0	WNW	3	bc	63	45	8	–	3	2	0	4-6	–	0	*
Manchester	1029·8	−2	W'N	3	bc	67	35	8	1	4	1	Tr	2-3	4000	0	*
Spurn Head	1030·2	0	NE	2	b	60	75	7	–	–	4	0	1	–	0	1
Catterick	1028·8	0	NE	2	bc	66	45	7	1	4	1	Tr	2-3	4000	0	
Tynemouth	1029·9	−4	E	2	bc	59	85	7	–	3	–	0	2-3	–	0	1
St. Abbs Head	1018·8	−4	SE	4	bc	58	65	9	1	4	1	1	2-3	2500	0	2
Leuchars	1028·5	−2	SSE	3	bc	65	55	8	–	4	9	0	2-3	–	0	*
Renfrew (Abbots I.)	1029·4	−10	W	1	bc	66	45	9	–	4	1	0	2-3	–	0	*
Eskdalemuir	1028·9	−4	SW	3	c	63	55	8	5	3	1	1	7-8	4000	0	*
Point of Ayre	1030·7	−6	SSE	2	c	59	75	8	5	3	–	4-6	9	4000	0	1
Tiree	1028·3	−2	S	3	o	57	75	8	5	–	–	10	10	2500	0	3
Stornoway	1027·5	−4	SSE	5	c	56	85	7	8	2	–	7-8	10	1500	1	3
Dalwhinnie	1029·5	0	SW	3	c	63	45	8	4	5	2	4-6	7-8	4000	0	*
Aberdeen	1029·7	−2	SE	3	bc	57	75	8	–	4	.	0	2-3	–	0	2
Wick	1028·5	−4	SE	2	c	55	85	8	5	3	8	4-6	9+	2500	0	1
Lerwick	1029·0	0	W'S	1	c	56	65	8	8	3	–	4-6	7-8	1500	0	*
Blacksod Point	1028·2	−6	S	4	o	58	85	7	5	–	–	10	10	1500	0	3
Malin Head	1028·8	−6	N'E	1	c	58	85	8	8	6	–	4-6	9	4000	0	
Aldergrove	1029·1	−6	SW	2	c	66	55	8	4	3	–	2-3	9+	4000	0	*
Birr Castle	1029·2	−4	SSW	1	c	65	65	8	5	1	–	7-8	10	2500	0	*
Valentia Obsy. †	1029·5	−12	S	3	c	61	75	8	7	3	–	4-6	9+	5700	0	2
Roches Point	1029·8	−10	S	3	bc	63	75	8	1	3	–	1	2-3	4000	0	2

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 30th (37)	13h.—18h. 30th (38)	18h. 30th to 1h. 1st (39)	1h.—7h. 1st (40)
London (Kew)	bybcy	bcy	bcyb	bbcmozw
Croydon	c,bbcy	bcy	bcybw	bwbmo
S. Farnborough	bccy	cbcyv	bcybc	bfbcmow
Boscombe Down	bb/cy	bcy	bcyb	b
Calshot (Soton.)	bbcy	bcy	bcybcbw	b
Lympne	bcbcy	bcby	bw	bwb
Manston	cbcy	bcybc	cbcbw	bwcwc
Shoeburyness	bcmozbc	bcybc	bcbw	bwffo
Felixstowe	bcybc	bccbc	bcb	bofc
Gorleston	cbcb	bbc	bcbbccw	cw
Mildenhall	bcmobcy	bcyv	bcyvbfg	bifoFew
Cranwell	bzobcy	bccy,b	bbmo	bbmoc
Birmingham	bcc	cbc	cbc	bc
Upper Heyford	c	cbccy	cbcb	bbcmocmo
Ross-on-Wye	bvbcycy	bcvy	bcyb	bmow
Hartland Point	bc	bc	bc	bwc
Bristol	bcy	bcy	bmo	bmow
Portland Bill	bc	bc	bc	bc
Plymouth	bc	bc	byb	b
The Lizard	bc	bc	bcb	bbc
Scilly (St.Mary's)	b	b	bbcb	b
Guernsey	bbc	bc		
Pembroke	bc	bcy	bc	bcw
Holyhead	bcc⊕	cbcc⊕	cproc	croc
Chester (Sealand)	bcy⊕	bccbcy	bcyc	cmobczo
Manchester	bmobcy	bcyby	bcycmo	cmobczo
Spurn Head	bc	bc	bc	c
Catterick	bcyby	by	bbczocmo	cmocczo
Tynemouth	bc	bc	bcc	cbc
St. Abbs Head	bcy	bbc	bcc	c
Leuchars	bcby	bybcy	bcybc	bccirоc
Renfrew (Abbots I.)	bwbcy	bcy	bcybcc	c
Eskdalemuir	bbcy	bcy	bcybc	bcc
Point of Ayre	bc	bcc	c	c
Tiree	c	c	orrd	oir
Stornoway	bc	cpro	crr	crr
Dalwhinnie	bc	bc	* .	ciro
Aberdeen	bcby	byb	bc	bcczo
Wick	bcy	bcyc	crr	rrcro
Lerwick	bcc	c	cpro	croro
Blacksod Point	c	c	c	iro
Malin Head	c	bcc	ciroc	cproc
Aldergrove	bcby	bcycy	cyciroc	cciro
Birr Castle	cy	c	ciro	c
Valentia Obsy. †	bcc	c	ccwcirobc	bcc
Roches Point	bcc	bc	bc	bcwbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29 —STATE OF GROUND.

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

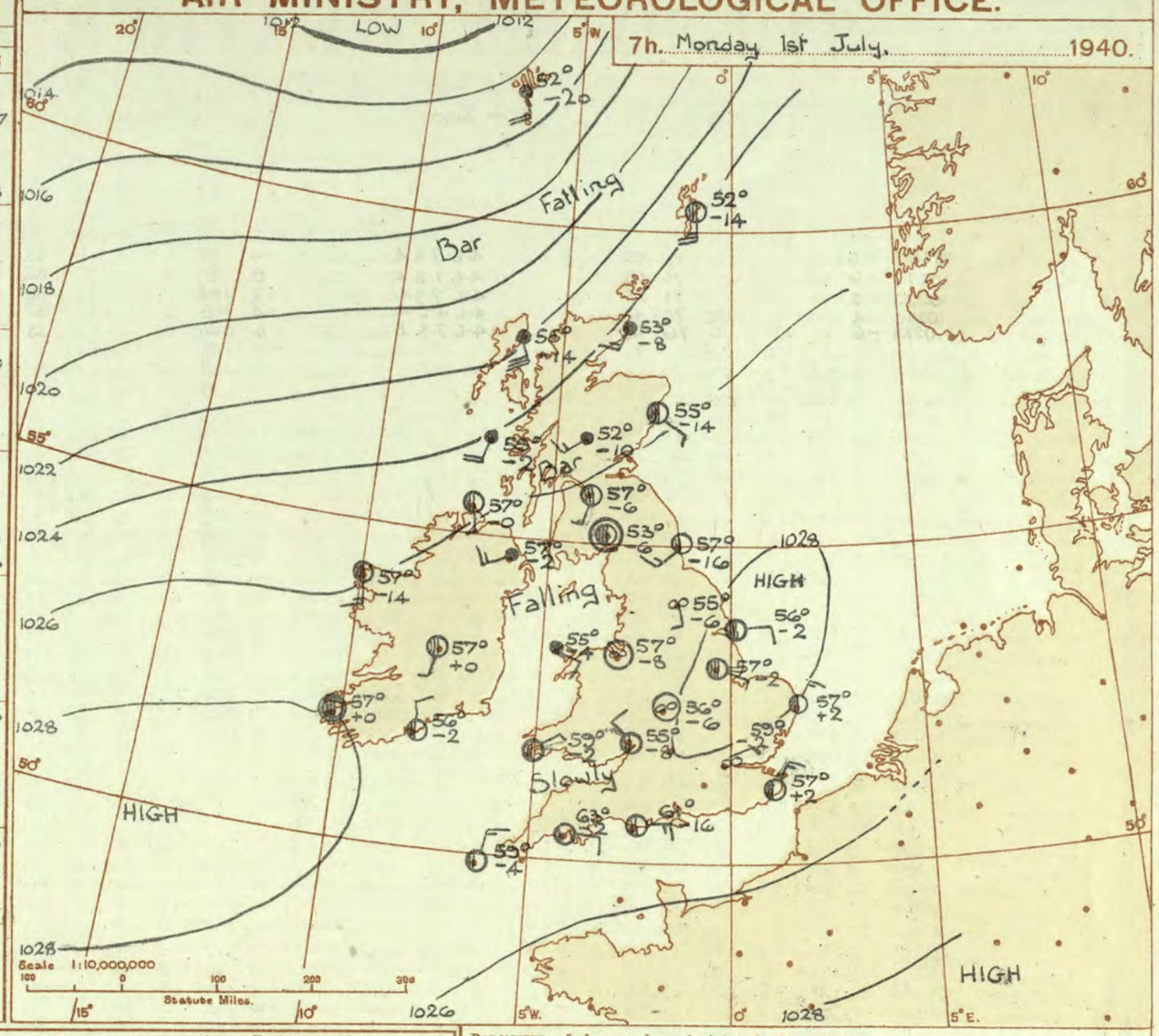
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 30th June			18h. G.M.T.			01h. G.M.T. 1st July			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	10	01961	24413	52	03861	22128				5-	22748	16368
115	71	14863	53514				52	62734	20367	52	81844	20587
203												
206	77	01973	23224							62	61844	23168
210	10	01958	26414	17	02861	08325				52	62747	16268
220	52	03744	24428	52	81744	22328				--	57519	23349
230	47	01862	20325	17	01861	22113	52	52745	00068	52	22646	18168
245	70	00961	13412	44	01861	12314				57	02854	22227
260	10	00762	23102	03	01730	24204						
277	10	02851	18216							57	02884	17268
279												
285										5-	02747	28327
288	10	00761	04312	00	00730	06311						
273										51	03654	16188
301										--	05665	00017
321	10	02764	30214	45	02881	08414	07	05690	00015	03	02690	16215
299	50	00751	08302							57	02744	16216
292	10	01962	27213	10	01863	08303	53	02785	00016	53	05683	16126
310										--	02636	20226
316	4-	02766	02116	46	17664	00025	50	05563	00013	53	05582	04126
333	10	01961	22224	43	02961	28426				03	01890	28215
334											01790	00001
340	10	01954	30215	00	01890	02224				00	01890	00003
136	10	00851	03312	03	01830	02314				53	02834	06226
336							07	05690	00003		01852	28312
350										00	02790	06226
368	70	02863	18215	10	01861	24213				00	03690	05200
379	70	01764	02315	70	01763	04218						
390	14	01764	32214	70	01763	03215	00	05690	00000	00	00790	32101
382	10	02863	04314	40	01863	04214				00	05690	00012
438	87	01763	12213							00	00790	02700
430	10	01764	32315	03	01730	14314				00	00890	02201
409	50	01752	01213	50	01872	31213				04	05790	04201

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.



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. 1st July, 1940.
1 S.E. England 2 E. England 3 E. Midlands ...	Light northeast wind; mainly fine but cloudy in East in early morning; local mist or fog in early morning; rather warm in most districts but cool on East Coast.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light variable to northeast wind; fine; warm.
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 south to southwest wind; slight local rain at first bright periods and occasional slight showers later; rather warm.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate or fresh south to southwest wind veering southwest to west; cloudy, occasional rain at first; bright periods and showers later; average temperature.
17 N. W. Ireland 18 N. E. Ireland	Light or moderate southwest wind; bright periods occasional slight showers; average temperature.
19 S. E. Ireland 20 S. W. Ireland	Light variable wind; fine; rather warm.

GENERAL INFERENCE.

A belt of high pressure persists from north of the Azores across England to Scandinavia. A shallow trough of low pressure from the Faeroes to the Hebrides and Northwest Ireland is moving northeast. In the Northwest there will be occasional rain followed by bright intervals and showers but over most of the country weather will be fair or fine.

FURTHER OUTLOOK.

Occasional rain in the Northwest; fair or fine elsewhere.

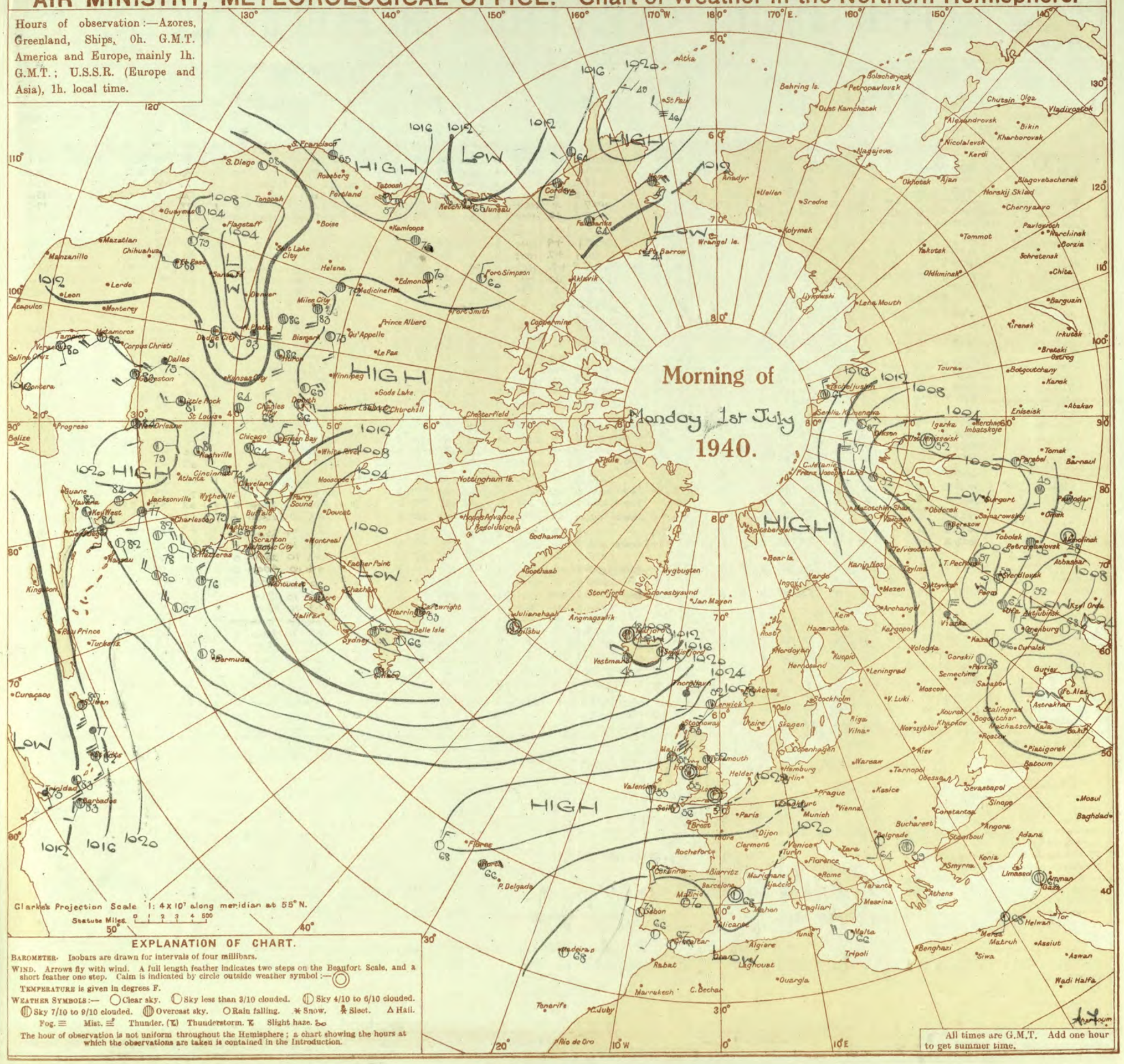
Forecasts issued at 1000 G.M.T.

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.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 1st July 1940.

No. 28711.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1028·7	+2	-	0	b	51	92	7	-	-	-	0	0	-
	S. Farnborough	226	1028·8	+2	-	0	b	53	85	7	-	-	-	0	0	-
	Boscombe Down	417	1028·5	0	E'S	2	b	55	85	6	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1028·1	-2	E'N	2	b	59	92	7	-	-	-	0	0	-
	Lympne ...	346	1028·0	-6	N'E	3	b	52	75	8	-	-	-	0	0	-
	Manston ...	154	1028·3	-2	NNE	2	b	51	97	7	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1028·6	0	N'E	2	b	53	75	7	-	-	-	0	0	-
	Gorleston ...	5	1028·6	0	NW	2	c	54	85	7	5	-	-	9+	9+	2500
	Mildenhall ...	19	1029·1	+2	ENE	1	fg	48	97	7	-	-	-	0	0	-
	Cranwell ...	240														
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1028·9	+2	NE'N	1	b	55	75	7	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027·8	-10	NNE	2	b	57	92	8	5	-	-	1	1	2500
	Bristol ...	209			-	0	zo			6	-	-	-	0	0	-
	Portland Bill ...	32	1027·3	+4	NW	2	bc	60	85	8	5	-	-	2·3	2·3	4000
	Plymouth ...	82	1027·4	-10	NNW	2	b	58	65	7	-	-	-	0	0	-
	The Lizard ...	240	1027·2	-12	N	4	b	56	85	8	-	-	-	0	0	-
	Scilly (St.Mary's)	163	1027·8	-14	NNE	3	b	56	85	8	-	-	-	0	0	-
	Guernsey ...	175														
6	Pembroke ...	142	1028·3	-4	E'N	2	bc	54	75	8	7	4	-	2·3	2·3	4000
7	Holyhead ...	26	1028·4	-10	-	0	c	55	85	8	5	-	-	9	9	2500
	Chester(Sealand)	16	1029·5	-6	SSE	1	c	53	75	7	5	-	-	9+	9+	5700
8	Manchester ...	70	1029·2	-6	-	0	zo	51	92	6	5	-	-	7·8	7·8	4000
10	Spurn Head ...	29	1029·9	0	-	0	bc	54	97	6	-	4	-	0	2·3	-
	Catterick ...	175	1029·2	-10	-	0	zo	50	85	6	5	3	-	7·8	9+	7200
	Tynemouth ...	108	1029·5	-6	S	2	zo	52	85	6	5	-	-	9+	9+	4000
11	St. Abbs Head	280	1027·9	-10	SSW	4	c	55	65	8	4	6	-	4·6	7·8	2500
	Leuchars ...	36	1027·8	-6	-	0	c	54	85	7	-	7	-	0	7·8	-
12	Renfrew (Abbots I.)	19	1028·2	-10	-	0	c	54	85	8	5	7	-	1	9+	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1028·9	-4	WNW	1	c	54	85	8	5	4	-	7·8	9+	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1024·8	-14	SE	6	rr	53	97	6	5	2	-	7·8	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1026·3	-8	SSW	2	rr	53	92	7	5	2	-	9	10	800
16	Lerwick ...	156	1028·0	-2	SSW	3	c/pr	52	92	7	8	7	-	4·6	9+	800
17	Blacksod Point	18	1027·4	-14	S	3	c	57	92	7	5	-	-	10	10	1500
18	Malin Head ...	84	1027·8	-12	S	1	c	55	92	7	8	-	-	7·8	7·8	4000
	Aldergrove ...	268	1028·3	-6	S'W	1	c	55	85	7	5	-	-	10	10	7200
19	Birr Castle ...	173	1028·8	-2	SSW	1	c/r	55	92	7	6	1	-	4·8	10	1500
20	Valentia Obsy.	30	1029·1	-6	S'E	1	bc/r	55	92	8	5	-	-	2·3	2·3	5700
	Roches Point	22	1028·9	-6	SW	2	bc	57	85	8	5	-	-	4·6	4·6	2500

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

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)	1027·9	"2	NNE	1	zo	61	75	6	-	-	4	0	4·6	-	0	*
Croydon ...	1027·5	-2	ENE	1	zo	59	85	5	-	-	1	0	Tr	-	0	*
S. Farnborough	1027·8	-2	-	0	bc	54	85	8	5	-	2	1	2·3	800	0	*
Boscombe Down	1027·9	0	-	0	b	64	55	7	-	-	-	0	0	-		*
Calshot (Sthmtn.)	1027·3	0	NE'N	1	b	60	75	7	-	-	1	0	Tr	-	0	1
Lympne ...	1027·3	+2	NNE	3	bc	57	85	8	1	-	1	4·6	4·6	1500	0	§2
Manston ...																*
Shoeburyness ...	1028·1	+4	NNE	3	0	54	92	7	5	-	-	10	10	220	0	*
Felixstowe ...	1028·1	+2	NNE	3	c	56	85	7	5	-	5	7·8	9+	2500	0	2
Gorleston ...	1027·9	+2	NE'N	3	c	57	75	7	5	-	-	9+	9+	2500	0	1
Mildenhall ...	1028·3	+22	NE	1	af-	51	97	2	5	-	-	10	10	450	0	*
Cranwell ...	1028·4	-2	ESE	1	c	57	85	7	-	3	7	0	9+	2500	0	*
Birmingham ...	1027·8	-6	-	0	zo	56	85	6	-	-	8	0	7·8	-	0	*
Upper Heyford	1027·9	-4	-	0	zo	61	75	6	-	3	8	0	9	-	0	*
Ross-on-Wye	1027·5	-8	NW'W	2	b	55	75	7	-	-	9	0	Tr	-	0	*
Hartland Point	1026·8	0	E	2	b	61	85	8	-	4	-	1	1	5700	0	1
Bristol ...	1027·8	-4	-	0	zo	59	75	6	-	4	-	0	Tr	-	0	*
Portland Bill ...	1026·1	-16	E	3	bc	61	85	7	5	-	-	2·3	2·3	4000	1	3
Plymouth ...	1026·7	-2	E'S	2	b	63	65	8	-	-	-	0	0	-	0	1
The Lizard ...	1026·4	0	NE	3	bc	61	85	8	7	-	-	2·3	2·3	4000	0	2
Scilly (St.Mary's)	1026·6	-4	NNE	3	bc	59	85	8	-	4	-	0	2·3	-	0	2
Guernsey ...																
Pembroke ...	1027·1	-2	NE'E	1	bc	59	85	8	5	7	3	Tr	2·3	2500	0	1
Holyhead ...	1027·3	-4	ESE	2	ir	55	92	9	5	7	-	4·6	9	2500	1	2
Chester(Sealand)	1027·5	-8	-	0	zo	57	75	6	-	3	9	0	4·6	-	0	*
Manchester ...	1027·8	-6	WSW	1	zo	60	65	5	5	9	1	Tr	4·6	4000	0	*
Spurn Head ...	1028·3	-2	E'N	2	b	56	92	6	1	-	1	7·8	(7·8)	1500	0	1
Catterick ...	1027·6	-6	S'E	1	zo	55	75	6	-	9	8	0	9+	-	0	*
Tynemouth ...	1027·2	-16	SW	3	bc	57	75	6	2	3	1	4·6	4·6	2500	0	1
St. Abbs Head	1026·1	-6	NE	1	c	59	65	8	5	7	-	4·6	10	2500	0	1
Leuchars ...	1026·1	-8	W	2	c	57	75	7	5	7	-	4·6	9+	2500	0	*
Renfrew (Abbots I.)	1026·8	-6	SSW	1	c	57	75	8	5	7	-	9+	10	4000	0	*
Eskdalemuir ...	1027·2	-6	-	0	c	53	85	8	5	7	-	2·3	10	2500	0	*
Point of Ayre...	1027·5	-6	S'W	2	c	58	85	8	5	7	-	4·6	10	4000	0	1
Tiree	1024·5	-2	SSW	4	rr	55	97	5	-	2	-	10	10	450	1	4
Stornoway ...	1021·9	-14	SSE	6	pr	55	92	6	5	2	-	4·6	10	800	1	3
Dalwhinnie ...	1026·0	-10	SW	3	ir	52	85	7	5	1	-	7·8	10	2500	1	*
Aberdeen ...	1025·5	-14	SE	1	c	55	85	6	5	2	-	4·6	10	800	0	1
Wick ...	1024·0	-8	SSW	3	pr	53	92	7	5	7	-	7·8	9+	1500	1	2
Lerwick ...	1024·2	-14	S	5	c/r	52	97	7	8	2	-	7·8	9+	800	1	*
Blacksod Point	1026·2	-14	S	3	c	57	97	7	5	-	-	10	10	800	0	3
Malin Head ...	1026·5	0	S	1	c	57	85	7	9	-	-	9	9	4000	0	2
Aldergrove ...	1027·3	-2	SW'W	3	ir	57	85	7	5	2	-	4·6	10	2500	0	*
Birr Castle ...	1028·3	0	SSW	1	c	57	85	8	5	1	-	7·8	9+	2500	1	*
Valentia Obsy.	1028·0	0	-	0	c	57	92	8	5	7	-	1	9+	1500	0	0
Roches Point	1027·3	-2	N	2	bc	56	92	8	5	3	-	1	4·6	2500	1	2

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 30th Hrs. (36)
London (Kew)	74	52	39	-	-	11·1
Croydon ...	76	48	41	-	-	12·2
S. Farnborough	77	42	36	-	-	13·1
Boscombe Down	74		39	-		13·0
Calshot (Sthmtn.)	78	54	47	-	-	13·7
Lympne ...	72	48	51	-	-	12·7
Manston ...	71			-		
Shoeburyness ...	73	47	37	-	-	10·6
Felixstowe ...	72	48	46	-	-	8·2
Gorleston ...	66	52	51	-	-	12·8
Mildenhall ...	72	41	34	-	Tr	13·9
Cranwell ...	73	45	38	-	-	14·3
Birmingham ...	70	52	39	-	-	10·4
Upper Heyford	74	50	42	-	-	*
Ross-on-Wye	73	48	41	-	-	12·1
Hartland Point	63	56	51	-	-	14·1
Bristol ...	73	48	39	-	-	13·0
Portland Bill ...	67	57	*	-	-	*
Plymouth ...	70	54	44	-	-	14·1
The Lizard ...	69	55	*	-	-	14·0
Scilly (St.Mary's)	65	56	*	-	-	13·8
Guernsey ...				-		
Pembroke ...	65	51	*	-	-	13·9
Holyhead ...	61	54	43	-	0·3	11·7
Chester(Sealand)	68	51	48	-	-	11·9
Manchester ...	69	49	47	-	-	13·6
Spurn Head ...	65	52	*	-	-	15·1
Catterick ...	72	49	45	-	-	15·1
Tynemouth ...	62	54	51	-	-	*
St. Abbs Head	63	53	*	-	-	*
Leuchars ...	69	52	45	-	Tr	14·8
Renfrew (Abbots I.)	68	52	47	-	-	12·7
Eskdalemuir ...	68	47	43	-	-	12·3
Point of Ayre...	64	53	*	-	-	11·7
Tiree	62	52	*	-	5	3·8
Stornoway ...	60	52	*	Tr	3	4·3
Dalwhinnie ...	67	50	48	-	0·2	8·0
Aberdeen ...	64	52	46	-	-	14·1
Wick ...	63	51	*	-	3	*
Lerwick ...	58	50	*	-	2	15·2
Blacksod Point	62	56	*	-	1	*
Malin Head ...	63	52	*	-	1	6·8
Aldergrove ...	70	54	53	-	Tr	10·6
Birr Castle ...	70	53	52	-	2	7·4
Valentia Obsy.	64	52	47	-	Tr	4·0
Roches Point	68	52	*	-	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	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	bybcy	bcy	bcmozw	74	52	39	-	-	11·1	•	•	7
Croydon	217	c,bbcy	bcy	bcybmo	76	46	41	-	-	12·2	•	•	6
Greenwich (Royal Observatory)...	149	bcy	bcy	cby	75	49	36	-	-	12·3	37	41	7
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	76	54	47	-		10·8	44	54	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•									•
Camden Square	110	bc	bc	•	79	54	47	-	-	•	•	49	•
Kensington	80	bc	bc	•	78	53	44	-	-		37	43	•
Hampstead Observatory	450										•		•

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	5-7h 1st July	<0·1	10-24h 30th June

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 30th June Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 1st July 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 ,,	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.

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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 2nd. July, 1940.

No. 28712

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

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) ...	1025·2	-20	NNE	2	b	72	35	7	-	-	4	0	1	-
	Croydon ...	1023·1	-16	NNE	2	b	73	45	7	-	-	1	0	1	-
	S. Farnborough	1024·8	-20	NNE	2	bc	74	45	8	1	-	-	2-3	2-3	4000
	Boscombe Down	1024·8	-22	NNE	1	bc	73	45	8	1	-	-	4-6	4-6	4000
	Calshot (Soton.)	1025·0	-18	SE'S	3	b	74	65	8	1	-	-	1	1	5700
	Lympne ...	1025·5	-10	NNE	3	bc	66	55	8	1	-	1	tr	2-3	2500
	Manston ...	1026·2	-18	NNE	3	bc	62	75	7	1	-	2	tr	4-6	2500
2	Shoeburyness ...	1026·4	-14	ESE	3	bc	64	75	8	-	-	6	0	2-3	-
	Felixstowe ...	1026·6	-8	E'S	3	c	64	65	8	1	-	4	1	7-8	2500
	Gorleston ...	1026·6	-6	ENE	3	c	61	75	7	-	4	1	0	7-8	-
	Mildenhall ...	1025·4	-22	N	2	bc	72	45	8	1	4	9	1	4-6	4000
	Cranwell ...	1025·3	-18	SW	1	bc	72	45	8	1	7	1	1	4-6	4000
3	Birmingham	1024·0	-14	NW	1	z_0	71	45	6	-	3	-	0	4-6	-
	Upper Heyford	1025·7	-12	-	0	bc	76	45	7	1	-	9	4-6	4-6	4000
4	Ross-on-Wye ...	1024·6	-14	W'S	3	bc	74	45	8	1	4	-	2-3	4-6	4000
5	Hartland Point	1025·6	-10	WNW	2	bc	65	75	8	1	4	9	1	2-3	4000
	Bristol ...	1025·2	-18	SW	1	bc	74	45	8	4	-	-	4-6	4-6	4000
	Portland Bill ...	1026·0	-10	S	3	bc	64	85	8	5	-	-	2-3	2-3	4000
	Plymouth ...	1025·5	-10	SSE	3	bc	68	55	8	1	3	-	1	4-6	4000
	The Lizard ...	1025·6	-8	ENE	3	bc	65	75	8	7	4	-	2-3	4-6	4000
	Scilly (St. Mary's)	1025·8	-2	NE	2	b	69	65	8	-	-	-	0	0	-
	Guernsey ...														
6	Pembroke ...	1026·3	-2	NW	2	bc	63	85	8	2	7	3	2-3	4-6	2500
7	Holyhead ...	1026·6	-4	NW	3	c	60	85	8	-	8	6	0	9+	-
	Chester (Sealand)	1025·9	-14	WNW	2	c	68	45	8	-	9	9	0	9	-
8	Manchester ...	1026·1	-10	NNW	2	c	68	35	7	-	7	-	0	9+	-
10	Spurn Head ...	1025·6	-10	E'S	3	c	64	63	7	5	3	-	4-6	7-8	1500
	Catterick ...	1025·9	-6	NNW	1	c	67	35	8	5	7	-	2-3	10	7200
	Tynemouth ...	1026·2	-2	W	2	c/pr	62	53	6	5	-	-	9+	9+	2500
11	St. Abbs Head	1025·0	-8	S	2	c	61	65	8	8	2	-	7-8	10	2500
	Leuchars ...	1024·1	-16	WSW	4	c	68	55	7	5	1	-	4-6	10	4000
12	Renfrew (Abbots I.)	1025·8	-2	W	2	ir_0	62	75	8	5	7	-	7-8	10	1500
	Eskdalemuir ...	1026·0	-4	SSW	3	ir	58	85	7	6	1	-	7-8	10	1500
	Point of Ayre ...	1026·8	-6	NW'N	1	c	60	85	8	4	7	-	1	10	2500
13A	Tiree ...	1023·3	-4	SSW	4	id	57	97	6	-	2	-	10	10	800
13B	Stornoway ...	1020·9	-8	SSW	4	dd	57	97	6	5	2	-	7-8	10	1500
15	Dalwhinnie ...	1024·0	-4	SW	3	c	56	85	7	5	1	-	4-6	10	2500
	Aberdeen ...	1022·9	-8	S	2	c	65	55	7	8	7	-	9+	9+	2500
	Wick ...	1021·8	-12	SSW	3	c/pr	57	92	7	5	7	-	7-8	10	1500
16	Lerwick...	1021·8	-14	S'W	5	c/d	52	97	6	5	2	-	7-8	10	450
17	Blacksod Point...	1025·5	-4	S	2	c	59	85	7	5	-	-	10	10	800
18	Malin Head ...	1025·0	-6	SSW	4	c	60	85	8	6	-	-	9	9	5700
	Aldergrove ...	1026·9	-2	WSW	1	d_0d_0	57	85	7	-	2	-	10	10	4000
19	Birr Castle ...	1026·9	-4	SSW	1	ir_0	63	75	7	5	-	-	10	10	2500
20	Valentia Obsy. †	1027·2	+2	W'N	2	c/r	60	75	8	5	7	-	2-3	9	2500
	Roches Point ...	1026·4	-4	SW	2	c	66	75	8	1	3	5	1	7-8	4000

OBSERVATIONS at 18h. G.M.T. 1st. July

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)	1023·0	-10	NNW	1	bc	76	35	8	-	3	4	0	2-3	-	0	*
Croydon	1023·0	-14	ESE	2	bc	74	45	8	-	4	4	0	4-6	-	0	*
S. Farnborough	1023·0	-6	SW'S	3	bc	76	35	8	-	4	9	0	4-6	-	0	*
Boscombe Down	1022·8	-10	SSE	3	c	72	45	7	8	3	-	4-6	7-8	4000	0	*
Calshot (Soton.)	1023·9	-2	SW	3	bc	66	75	7	-	3	3	0	4-6	-	0	2
Lympne	1024·1	-10	ENE	3	c	65	65	9	-	-	6	0	7-8	-	0	§3
Manston	1024·2	-12	NE	3	bc	62	75	7	-	-	2	0	4-6	-	0	*
Shoeburyness	1024·7	-10	E	3	bc	61	75	8	-	-	6	0	4-6	-	0	*
Felixstowe	1024·9	-10	E	3	c	61	75	8	-	4	2	0	7-8	-	0	2
Gorleston	1025·1	-8	NE	2	bc	61	75	7	-	5	1	0	4-6	-	0	1
Mildenhall	1023·2	-12	N	3	bc	74	45	8	1	7	9	1	4-6	4000	0	*
Cranwell	1023·6	-10	ESE	3	c	67	55	8	-	7	9	0	9	-	0	*
Birmingham	1023·1	-12	NNW	1	c	71	45	7	5	8	-	7-8	9	4000	0	*
Upper Heyford	1023·5	-4	-	0	c	75	45	7	1	7	4	4-6	7-8	4000	0	*
Ross-on-Wye	1022·7	-14	SW'W	2	bc	75	45	8	7	4	3	2-3	4-6	4000	0	*
Hartland Point	1024·5	-6	WNW	2	bc	62	75	8	1	3	4	2-3	4-6	4000	0	1
Bristol	1023·2	-6	WNW	2	bc	74	45	8	1	4	-	tr	2-3	4000	0	*
Portland Bill	1023·8	-4	W	3	c	61	85	8	2	4	-	7-8	10	4000	1	2
Plymouth	1024·2	-6	SW'S	2	b	64	65	8	2	6	-	tr	1	4000	0	2
The Lizard	1024·3	-6	ENE	2	bc	65	65	8	7	7	-	2-3	4-6	4000	0	1
Scilly (St. Mary's)	1024·6	-6	NE'N	3	b	63	86	8	-	-	3	0	1	-	0	2
Guernsey																
Pembroke	1024·4	-8	N'E	2	c	60	75	8	2	6	2	4-6	7-8	2500	0	1
Holyhead	1024·6	-14	NE'N	2	c	58	75	8	-	7	6	0	9+	-	0	1
Chester (Sealand)	1024·6	-6	NW	3	c	64	45	8	-	7	2	0	9+	-	0	*
Manchester	1024·0	-10	NW'N	3	c	68	45	8	1	7	-	1	9	5700	0	*
Spurn Head	1024·2	-6	SE'S	3	c	60	75	7	5	5	6	4-6	7-8	2500	0	3
Catterick	1024·5	-14	N'W	2	c	67	55	8	-	7	-	0	9	-	0	
Tynemouth	1024·3	-10	W	2	c/pr	63	65	6	5	-	-	9+	9+	4000	0	1
St. Abbs Head	1023·3	-10	SW	2	r_0r_0	58	86	7	5	2	-	7-8	10	1500	1	1
Leuchars	1022·1	-10	WSW	3	c	63	75	8	5	1	-	4-6	10	4000	0	*
Renfrew (Abbots I.)	1024·2	-12	SW'W	3	ir_0	57	85	8	5	2	-	7-8	10	2500	1	*
Eskdalemuir	1023·9	-16	SW	3	ir_0	56	85	8	6	-	-	10	10	1500	1	*
Point of Ayre	1025·2	-8	NW'W	1	c	59	85	8	-	7	7	0	10	-	0	0
Tiree	1021·4	-8	SW'S	4	d_0d_0	56	97	5	-	2	-	10	10	450	1	4
Stornoway	1020·1	-4	W	3	c	57	85	7	5	7	-	9	10	1500	1	2
Dalwhinnie	1024·1	-6	SSW	4	c	55	85	7	5	2	-	7-8	10	2500	0	*
Aberdeen	1020·8	-10	-	0	c	62	76	6	5	7	-	4-6	9+	2500	0	1
Wick	1020·2	-10	SW	2	r_0r_0	56	97	7	5	2	-	7-8	10	800	1	1
Lerwick	1019·6	-8	SW	4	c	54	97	8	6	7	-	9	10	450	1	*
Blacksod Point	1024·0	-8	S	2	c	61	85	8	3	4	-	4-6	7-8	1500	0	1
Malin Head	1023·4	-12	SW'S	3	c	60	86	8	9	-	-	9	9	5700	0	2
Aldergrove	1025·0	-14	SW'W	2	c	56	85	8	8	7	-	4-6	9+	2500	1	*
Birr Castle	1025·2	-6	WNW	1	bc	66	55	8	-	3	-	0	4-6	-	0	*
Valentia Obsy. †	1026·1	-2	W'N	3	bc	61	85	8	1	4	-	2-3	2-3	2500	0	2
Roches Point	1024·8	-12	SW	3	bc	66	65	8	1	-	-	2-3	2-3	4000	0	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 1st. (37)	13h.—18h. 1st. (38)	18h. 1st. to 1h. 2nd. (39)	1h.—7h. 2nd. (40)
London (Kew)	bcz_0wy	bybcy	bcyc	bcw
Croydon	bm_0bzy	bybcy	bcycbc	bcwbbc
S. Farnborough	bcbzy	bbcy	bcyb	$bwbcm_0b$
Boscombe Down	bbcy	bcy	bcm_0	bcm_0b
Calshot (Soton.)	b	bybcy	bcbw	bbm_0bz_0
Lympne	bbcby	byb	cbbcw	bcm_0wfc
Manston	cbc	bc	$bccm_0w$	bcm_0wF
Shoeburyness	cbc	bc	bc	bcwfb
Felixstowe	cbc	bc	$bcbcm_0w$	bcm_0bc
Gorleston	cbcc	cbc	cbc	cbc
Mildenhall	ofewcbyc	ybcy	$cbcm_0$	$bcbm_0$
Cranwell	cbcy	bccy	cycbc	$bcbm_0$
Birmingham	bcz	bcc	cb	bz
Upper Heyford	cbc	bccy	ccm_0	bcm_0
Ross-on-Wye	bbwbcy	bcy	ccz_0l	bm_0w
Hartland Point	bc	bc	bcb	bbcc
Bristol	bm_0bcy	bcby		$bwbcm_0$
Portland Bill	bc	bcc	cbc	bc
Plymouth	bybcy	bcyb	b	bbcc
The Lizard	bc	bc	bc	bc
Scilly (St. Mary's)	b	b	bcb	bbccw
Guernsey				
Pembroke	bc	bcc	bcbw	bc
Holyhead	cr_0c	c⊕	cwb	bwcbc
Chester (Sealand)	$bccz_0cy$	cz_0y	$cbccm_0$	$bbcm_0cz_0$
Manchester	$bccz_0yc$	cz_0ycy	bcm_0	$bcbm_0w$
Spurn Head	c	c	o	c
Catterick	z_0r_0ycy	cir_0cy	$ybccm_0$	m_0ir_0bcy
Tynemouth	$bccR_0$	cp_0	c	c
St. Abbs Head	c	cr_0	c	c
Leuchars	ccm_0c	cm_0ir_0c	cm_0bc	bcc
Renfrew (Abbots I.)	ccr_0	cir_0irir_0	cir_0m_0c	cm_0id_0c
Eskdalemuir	cir_0ir	$cirir_0$	$crrm_0$	c
Point of Ayre	cir_0	c	cbcc	c
Tiree	odr	$odrd_0$	odr	dRR
Stornoway	crrdd	cdd	cd_0	cd_0d_0rr
Dalwhinnie	c	cir_0		cr_0r_0
Aberdeen	ir_0cy	cyc	c	cir_0
Wick	cpr_0c	pr_0r_0	r_0cm_0	Fr_0r
Lerwick	cir_0id	cidir	c	c
Blacksod Point	c	bc	c	ir_0
Malin Head	c	$ccpr_0c$	c	c
Aldergrove	$cr_0r_0d_0d_0$	$cr_0r_0ir_0$	cbcb	$bbccir_0$
Birr Castle	cir_0	cir_0bcy		c
Valentia Obsy. †	cir_0c	cpr_0cb	bbcwcw	$bcwcir_0cir_0d$
Roches Point	bcc	c	bbc	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

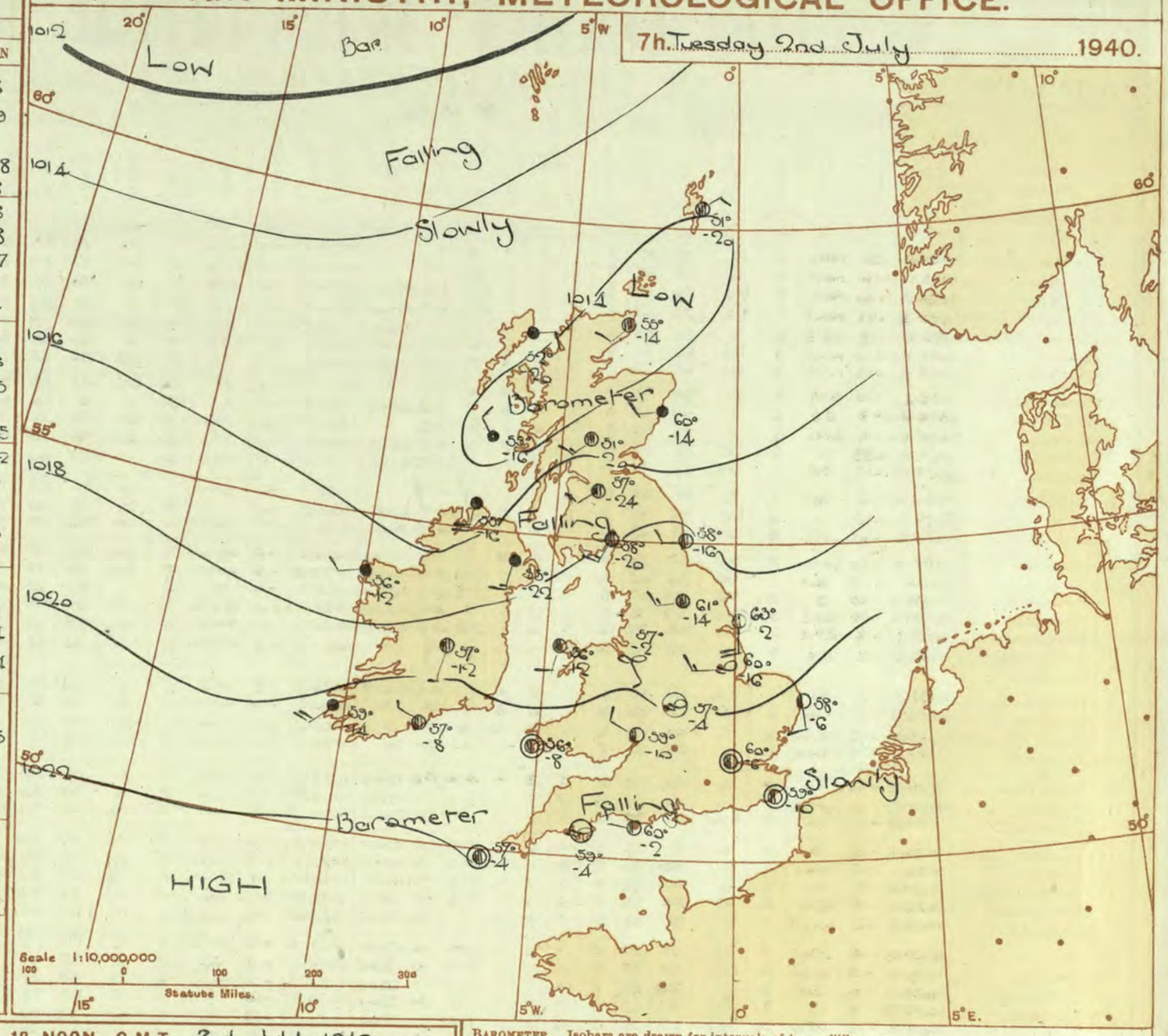
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 2nd July 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 1st July			18h. G.M.T.			01h. G.M.T. 2nd July			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
106	52	54628	20528	6-	62528	22358	5-	62738	00008	5-	52628	04168
115	52	02734	20588	--	67209	22469	52	03834	20168	--	67209	20169
203												
206	57	02965	22367	52	02966	21328	53	02854	22386	5-	64838	20168
210	57	02954	23427	5-	61847	20327	5-	22947	21167	52	61846	00028
220	--	54319	22359	--	57319	22359				52	53633	24258
230	57	02855	20368	02	58528	20368				62	64635	20468
247	7	02964	23427	57	02954	24467	57	02764	23426	77	21855	22257
260	7	22754	20568				5-	02866	20116			
277	52	61644	24268	52	61734	24268	5-	02788	15128	17	02841	19327
279												
285	3-	61848	26368	8-	03848	28228				5-	02846	24326
288	7	22863	22268	57	05665	04288				09	01790	00025
273												
301	--	05667	31287	--	02830	30316				--	02853	24215
325	3	02774	18215	57	02765	02227	03	05690	31124	03	05690	26202
299				62	25745	16388				50	05645	16215
292	57	22745	28366	07	22830	00067				53	05661	25113
310	-	01655	20215	--	03626	24226				—	01643	20213
316	3	01662	16115	57	01664	02315				00	08490	20110
333	7	02961	30217	09	02990	28227				53	02743	00017
334	--	02864	16116	--	02784	04227				--	02790	00015
340	83	02864	20115	50	05665	32327	50	05665	00025	03	01790	00014
136	03	01890	04214	09	01890	06214	57	02773	13225	04	01890	16224
336	-	02853	20316	--	02853	28427				--	01852	24318
350	3	00762	05213	10	02761	08216						
368	5	01762	18203	54	01862	25314	00	05690	00018	13	05641	22205
379	0	01865	22115	70	02764	32125	00	00790	05324	04	05590	26211
390	04	01890	32213	03	01790	09214	04	05690	00013	04	05690	15211
382	0	01764	00004	03	01790	00013	03	01790	00013	09	05690	00000
438	50	01743	10403									
430	00	05661	16201	03	05690	16213	00	05690	02103	08	05690	25112
409	14	00851	08103	10	00861	32303	00	00790	04200	03	02886	00026

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.
ww, W = Present and past weather—See M.O. 252.
h, N_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 July 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate SW or W wind, variable at first on coast. Fair today, occasional rain tomorrow. Warm today, cooler tomorrow.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light or moderate SW to W wind. Cloudy, occasional rain. Local coast and hill fog during night, clearing tomorrow. Average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate to fresh SW to W or NW wind. Cloudy, occasional rain. Bright intervals locally tomorrow. Average temperature.
13 { A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Wind variable to NW becoming fresh or strong locally. Rain at first, showers and bright intervals later. Rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or fresh W wind. Mainly cloudy, occasional rain or showers. Average temperature.

GENERAL INFERENCE.

The ridge of high pressure over England is collapsing and a large complex disturbance is spreading from the Northwest.

Weather will be fair at first in Southern and Eastern England, but there will be rain in the North and West of the British Isles spreading to all districts by tomorrow.

FURTHER OUTLOOK.

Unsettled generally.

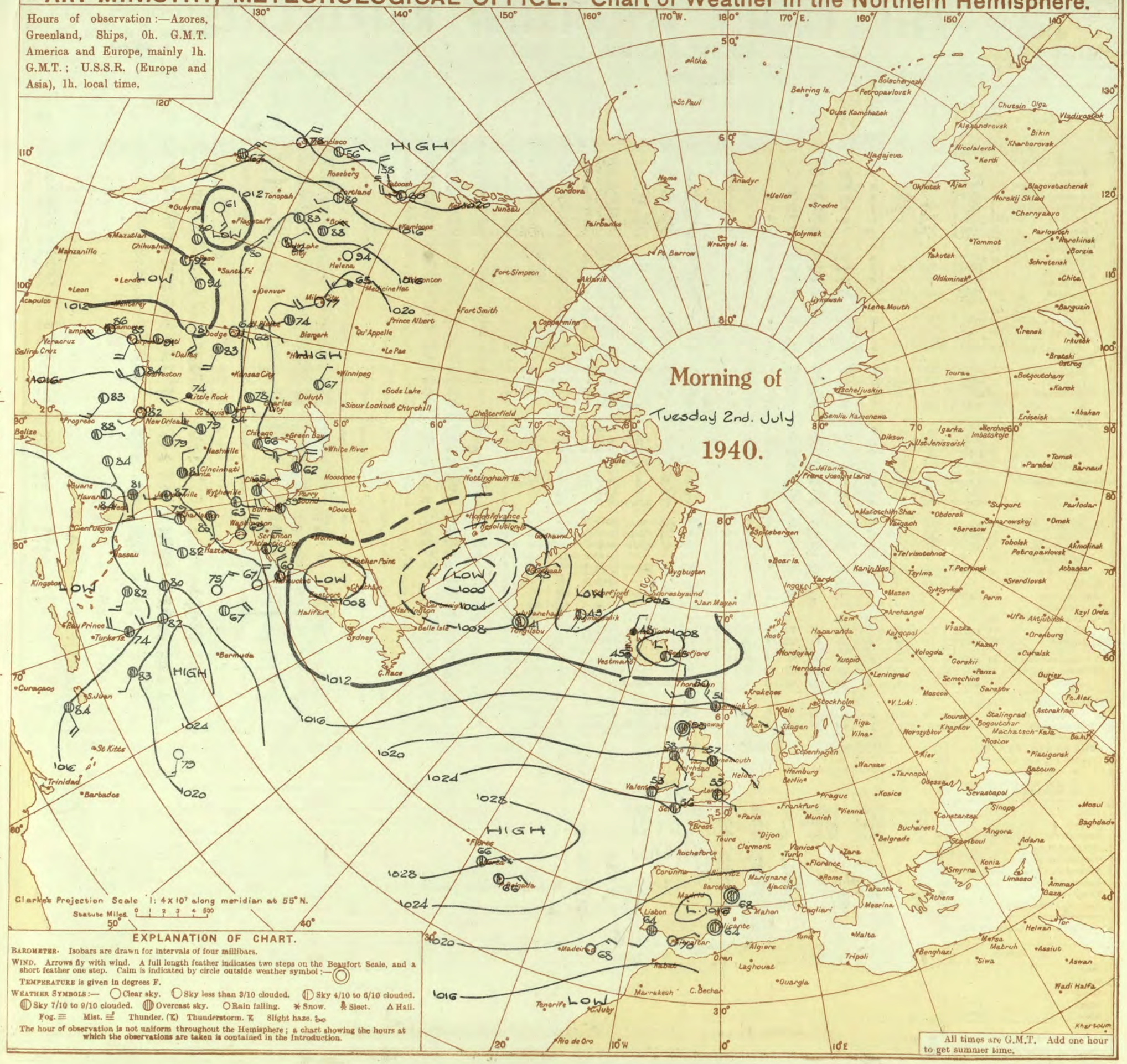
Forecasts issued at

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3902. Nr. 8049. D. 3705. G. 348. 15800. 8/40

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 2nd July 1940.

No. 28,712

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

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	1022·6	-10	-	0	bc	55	97	7	-	3	-	0	2·3	-
	S. Farnborough	226	1022·6	-10	-	0	b	56	85	7	-	4	-	0	1	-
	Boscombe Down	417	1022·8	-6	SE	1	2o	53	85	6	5	-	-	2·3	2·3	4000
	Calshot (Sthmtn.)	8	1022·6	-14	W'N	1	b	57	92	7	-	4	-	0	1	-
	Lympne ...	346	1022·8	-10	N	1	2o	49	97	5	5	-	-	4·6	4·6	4000
	Manston ...	154	1022·5	-14	-	0	2o	50	97	6	-	9	-	0	4·6	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1023·0	-10	-	0	2o	54	92	6	-	4	-	0	2·3	-
	Gorleston ...	5	1022·7	-10	ESE	1	bc	58	85	6	5	-	-	4·6	4·6	2500
	Mildenhall ...	19	1022·9	-6	-	0	2o	55	85	6	-	7	-	0	4·6	-
	Cranwell ...	240	1022·2	-14	SE	2	bc	57	85	7	5	-	-	4·6	4·6	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1022·5	-6	-	0	2o	57	85	6	-	7	2	0	7·8	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022·6	-14	SW	2	b	57	92	8	-	-	-	0	0	-
	Bristol ...	209														
	Portland Bill ...	32	1023·4	-12	W	2	bc	58	85	8	5	-	-	4·6	4·6	4000
	Plymouth ...	82	1022·8	-10	NNW	3	b	59	75	7	-	-	2	0	1	-
	The Lizard ...	240	1023·3	-14	NNE	1	bc	59	97	7	7	4	-	2·3	4·6	4000
	Scilly (St. Mary's)	163	1023·6	-10	N	2	b	56	92	8	5	-	2	Tr	1	4000
	Guernsey ...	175														
6	Pembroke ...	142	1023·0	-2	N	2	b	52	85	8	-	1	-	0	1	-
7	Holyhead ...	26	1022·5	-18	-	0	b	54	92	8	5	-	-	1	1	4000
	Chester (Sealand)	16	1022·5	-18	W'N	1	2o	55	85	6	5	7	-	2·3	7·8	5700
8	Manchester ...	70	1022·5	-14	W	1	2o	54	92	6	5	-	-	7·8	7·8	4000
10	Spurn Head ...	29	1023·0	-8	SE'S	2	c	58	85	5	-	7	-	0	9+	-
	Catterick ...	175	1021·7	-18	-	0	2o	53	85	5	-	7	-	0	9+	-
	Tynemouth ...	108	1021·9	-12	W	2	c	57	75	6	5	-	-	9+	9+	2500
11	St. Abbs Head	280	1020·2	-18	SW	2	c	54	85	8	4	3	-	4·6	7·8	1500
	Leuchars ...	36	1019·2	-22	WSW	2	c	56	92	7	5	4	9	4·6	7·8	4000
12	Renfrew (Abbots I.)	19	1021·1	-18	SW'W	2	id.	55	85	6	6	7	-	9+	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1022·5	-12	W'S	2	c	52	92	8	5	7	-	4·6	9+	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1017·9	-20	-	0	c	53	92	7	5	7	-	9	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1017·7	-12	N	1	c/r	55	97	4	5	2	-	7·8	10	450
16	Lerwick ...	156	1017·7	-10	NW	3	c	51	92	8	8	7	-	7·8	10	800
17	Blacksod Point	18	1020·5	-18	S	3	c	58	92	7	5	-	-	10	10	1500
18	Malin Head ...	84	1020·3	-24	SSE	2	c	58	85	8	8	-	-	9	9	5700
	Aldergrove ...	268	1021·7	-18	S	2	bc	52	85	8	5	-	-	2·3	2·3	4000
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1023·6	-20	NE'E	2	c	53	97	8	5	-	-	9+	9+	5700
	Roches Point	22	1022·6	-16	NW	3	bc	57	85	8	5	-	5	1	2·3	2500

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

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)	1020·4	-6	SW	1	bc	61	75	7	5	-	1	2-3	2-3	2500	0	*
Croydon ...	1020·4	-6	-	0	bc	60	85	6	5	3	-	2-3	2-3	5700	0	*
S. Farnborough	1020·4	-6	-	0	2o	56	85	6	7	-	-	2-3	2-3	4000	0	*
Boscombe Down	1020·3	-12	NW	1	2o	56	85	6	-	3	-	0	Tr	-	0	*
Calshot (Sthmtn.)	1020·5	-6	WNW	1	2o	60	75	6	-	-	-	0	0	-	0	0
Lympne ...	1020·7	-10	-	0	bc	59	85	8	-	7	-	0	4-6	-	0	§2
Manston ...	1020·2	-6	NE'N	1	2o	61	75	6	5	3	6	Tr	2-3	2500	0	*
Shoeburyness ...	1020·7	-6	ESE	1	bc	61	85	7	1	4	-	Tr	2-3	4000	0	*
Felixstowe ...	1020·9	-6	SE'S	1	bc	59	85	7	-	4	4	0	2-3	-	0	0
Gorleston ...	1020·3	-6	SSE	2	bc	58	85	6	5	-	-	2-3	2-3	2500	0	1
Mildenhall ...	1019·6	-14	SSW	2	2o	59	85	6	-	4	-	0	Tr	-	0	*
Cranwell ...	1019·3	-16	W	3	2o	60	85	6	2	-	-	1	1	2500	0	*
Birmingham ...	1019·9	-4	-	0	2o	57	85	5	-	-	3	0	2-3	-	0	*
Upper Heyford	1020·4	-10	-	0	2o	59	75	6	-	-	-	0	0	-	0	*
Ross-on-Wye	1020·4	-10	NW	2	bc	59	85	6	-	-	6	0	4-6	-	0	*
Hartland Point	1020·9	-6	SW	2	c	58	85	8	7	-	-	7-8	7-8	4000	0	1
Bristol ...	1020·6	-6	-	0	bc	61	85	6	-	-	6	0	2-3	-	0	*
Portland Bill ...	1020·7	-2	WNW	2	bc	60	85	8	5	-	-	2-3	2-3	4000	1	2
Plymouth ...	1021·3	-4	-	0	2o	59	75	7	-	3	3	0	7-8	-	0	1
The Lizard ...	1021·9	-4	-	0	bc	59	75	8	8	6	-	4-6	4-6	2500	0	1
Scilly (St. Mary's)	1021·8	-4	-	0	c	57	97	8	5	3	3	2-3	7-8	2500	0	0
Guernsey ...																
Pembroke ...	1020·9	-8	-	0	bc	56	92	8	5	6	1	2-3	4-6	2500	0	0
Holyhead ...	1019·5	-12	SSW	2	c	56	85	8	5	3	9	Tr	7-8	2500	1	1
Chester (Sealand)	1020·0	-2	SE	1	2o	57	75	6	-	7	-	0	9	-	0	*
Manchester ...	1019·7	-14	W'N	1	2o	59	75	5	-	3	9	0	7-8	-	0	*
Spurn Head ...	1018·5	-12	SSE	4	bc	63	75	6	1	-	9	1	2-3	1500	0	1
Catterick ...	1018·7	-14	W	3	c	61	55	8	-	9	1	0	7-8	-	0	*
Tynemouth ...	1018·8	-16	W	2	c	58	75	7	8	3	2	4-6	7-8	2500	0	1
St. Abbs Head	1016·5	-18	SW	3	c	57	75	8	8	6	4	4-6	9+	2500	0	1
Leuchars ...	1015·6	-20	SW	3	c	57	85	8	7	7	-	7-8	9+	2500	0	*
Renfrew (Abbots I.)	1016·5	-24	SW	2	c	57	85	8	5	7	-	1	10	1500	1	*
Eskdalemuir ...	1017·2	-20	SW	3	c	58	85	7	5	-	-	10	10	1500	1	*
Point of Ayre ...	1018·4	-16	W'S	2	c	58	85	8	5	7	9	1	9	4000	0	1
Tiree	1013·3	-16	NW'W	2	rr	55	97	6	-	2	-	10	10	450	1	3
Stornoway ...	1014·8	-20	E	2	rr	52	97	6	5	2	-	9	10	1500	*	1
Dalwhinnie ...	*	-20	SW	3	c/r	51	97	6	9	2	-	7-8	10	800	1	*
Aberdeen ...	1014·3	-14	W	2	ir.	60	75	7	6	7	-	7-8	9+	2500	0	1
Wick ...	1013·1	-14	SW	2	c	55	97	8	5	7	-	7-8	10	1500	1	1
Lerwick ...	1014·0	-20	NE	2	c	51	85	8	5	7	-	7-8	9+	1500	0	*
Blacksod Point	1016·6	-12	W'S	2	ir.	56	97	7	6	-	-	10	10	450	1	3
Malin Head ...	1015·5	-16	SSW	4	PR	55	97	6	6	-	-	9+	9+	4000	0	2
Aldergrove ...	1017·5	-22	SSW	3	ir.	55	92	7	5	7	-	4-6	9+	1500	1	*
Birr Castle ...	1019·4	-12	SSW	1	c	57	85	8	5	1	-	7-8	10	2500	0	*
Valentia Obsy.	1020·1	-14	SW'S	4	id	59	97	6	5	-	-	10	10	800	1	3
Roches Point	1020·4	-8	NW	1	c	57	85	8	5	7	-	2-3	9	2500	0	2

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 1st Hrs. (36)
London (Kew)	77	54	46	-	-	13·3
Croydon ...	77	52	48	-	-	14·1
S. Farnborough	78	50	43	-	-	13·5
Boscombe Down	76	50	41	-	-	12·1
Calshot (Sthmtn.)	75	53	49	-	-	13·7
Lympne ...	68	48	42	-	-	15·1
Manston ...	64	46	36	-	-	14·2
Shoeburyness ...	65	49	41	-	-	11·7
Felixstowe ...	64	56	47	-	-	12·6
Gorleston ...	62	54	54	-	-	10·4
Mildenhall ...	76	50	45	-	-	10·5
Cranwell ...	75	53	49	-	-	9·2
Birmingham ...	74	53	40	*	-	7·2
Upper Heyford	79	52	45	-	-	*
Ross-on-Wye	77	50	42	-	-	10·9
Hartland Point	67	55	50	-	-	12·6
Bristol ...	76	51	42	-	-	11·4
Portland Bill ...	64	56	*	-	-	*
Plymouth ...	73	53	45	-	-	13·7
The Lizard ...	67	53	*	-	-	14·5
Scilly (St. Mary's)	70	55	*	-	-	14·2
Guernsey ...						
Pembroke ...	66	51	*	-	-	9·7
Holyhead ...	63	50	39	0·2	-	3·2
Chester (Sealand)	70	47	39	-	-	4·4
Manchester ...	72	46	39	-	-	2·8
Spurn Head ...	64	57	*	-	-	7·2
Catterick ...	69	50	44	0·1	Tr	0·9
Tynemouth ...	66	55	51	Tr	-	*
St. Abbs Head	64	52	*	0·4	Tr	*
Leuchars ...	69	54	52	Tr	-	0·4
Renfrew (Abbots I.)	63	55	53	0·1	Tr	0·0
Eskdalemuir ...	60	50	49	1	1	0·0
Point of Ayre ...	63	51	*	0·3	0·1	0·2
Tiree	59	54	*	1	17	0·0
Stornoway ...	60	52	*	1	4	0·1
Dalwhinnie ...	58	50	48	Tr	2	0·6
Aberdeen ...	69	54	46	Tr	Tr	0·5
Wick ...	63	55	53	0·1	Tr	0·0
Lerwick ...	60	50	49	1	1	0·0
Blacksod Point	63	55	*	-	1	*
Malin Head ...	63	53	*	Tr	3	0·1
Aldergrove ...	58	50	46	4	Tr	0·0
Birr Castle ...	66	49	45	0·4	-	3·6
Valentia Obsy.	63	52	46	Tr	0·6	6·4
Roches Point	67	55	*	-	-	*

LONDON OBSERVATIONS

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

Stations	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew ...	18	bczawy	bybcy	bcybcw	77	54	46	-	-	13·3	*	*	7
Croydon ...	217	bmobzwy	bybcy	bcycubc	77	52	48	-	-	14·1	*	*	7
Greenwich (Royal Observatory) ...	149	by	bbcy	bcby	76	51	41	-	-	13·5	32	49	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	76	56	52	-		13·0	44	62	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	79	56	50	-	-		38	51	*
Camden Square ...	110	b	b	*	80	57	50	-	-	*	*	57	*
Kensington ...	80	bc	bcbz	*	80	56	49	-	-		41	54	*
Hampstead Observatory ...	450	b	bc	b	75	56	50	-	-		*	71	*

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.
Lo·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 ...											*	*		

‡ 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

Wednesday 3rd July 1940.

No. 28,713.

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

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	-24	WSW	3	bc	74	45	7	7	3	-	4-6	7-8	2500
	Croydon	1016.9	-22	W	2	c	76	45	6	2	5	-	4-6	7-8	4000
	S. Farnborough	1016.6	-22	W'N	4	bc	78	35	8	7	3	-	4-6	4-6	4000
	Boscombe Down	1017.0	-20	W'N	2	bc	77	35	8	1	-	1	2-3	2-3	4000
	Calshot (Soton.)	1017.8	-18	SW'W	4	zo	74	55	6	1	3	-	1	1	4000
	Lympne	1018.0	-14	SE'S	2	b	70	55	8	-	-	1	0	Tr	-
	Manston	1018.3	-8	SSE	3	bc	66	75	7	1	-	1	Tr	Tr	4000
2	Shoeburyness	1017.1	-28	SE	2	bc	70	65	8	-	-	-	0	0	-
	Felixstowe	1017.3	-18	S'W	3	bc	67	65	8	-	5	1	0	4-6	-
	Gorleston	1016.9	-22	SSE	5	bc	62	75	7	-	7	-	0	2-3	-
	Mildenhall	1015.6	-18	W'S	4	zo	77	45	6	2	7	-	Tr	9	5700
	Cranwell	1015.4	-20	SW	4	bc	76	25	7	-	3	9	0	4-6	-
3	Birmingham	1015.5	-22	WSW	3	bc	73	15	8	-	7	-	0	7-8	-
	Upper Heyford	1016.6	-20	WSW	2	bc	79	35	8	1	5	4	Tr	2-3	4000
4	Ross-on-Wye	1016.2	-24	W'S	4	c	74	25	8	-	5	-	0	7-8	-
5	Hartland Point	1018.8	-12	WSW	3	bc	62	85	8	1	4	-	2-3	4-6	2500
	Bristol	1018.1	-16	W'S	4	bc	72	45	9	-	3	-	0	4-6	-
	Portland Bill	1018.9	-14	SW	2	bc	63	85	8	5	-	-	2-3	2-3	4000
	Plymouth	1019.0	-18	SSW	3	b	68	65	7	1	-	-	1	1	4000
	The Lizard	1020.8	-8	W'N	2	bc	66	85	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	1020.8	-10	WNW	3	b	67	75	8	1	4	-	Tr	1	4000
	Guernsey														
6	Pembroke	1018.7	-10	W	3	c	61	85	8	2	6	2	4-6	7-8	2500
7	Holyhead	1015.7	-24	SSW	4	c	61	85	8	5	7	-	7-8	10	4000
	Chester (Sealand)	1015.9	-18	W	2	c	69	55	8	7	7	-	4-6	9+	4000
8	Manchester	1016.0	-24	SW'W	2	c	68	55	7	7	7	-	4-6	10	4000
10	Spurn Head	1014.8	-20	ESE	2	c	66	75	6	-	3	-	0	2-3	-
	Catterick	1014.8	-18	W'S	3	cjp	65	55	8	5	7	-	Tr	9+	4000
	Tynemouth	1014.8	-24	W	3	c	66	55	7	8	-	-	9+	9+	2500
11	St. Abbs Head	1012.9	-22	SW	4	iro	59	75	9	5	2	-	7-8	9+	2500
	Leuchars	1011.3	-26	SW	4	roro	59	92	7	5	2	-	7-8	10	1500
12	Renfrew (Abbots I.)	1012.6	-22	SW	3	ido	56	92	6	5	2	-	9	10	800
	Eskdalemuir	1014.2	-22	SW'W	5	ido	57	75	7	5	-	-	10	10	1500
	Point of Ayre	1014.6	-22	W'S	5	roro	60	85	7	8	2	-	4-6	10	1500
13A	Tiree	1010.6	-12	WSW	3	c/r	55	97	7	5	-	-	9+	9+	1500
13B	Stornoway	1009.8	-28	SW	4	c/pr	58	85	8	6	7	-	4-6	9+	2500
15	Dalwhinnie	1010.2	-14	SW	3	roro	54	92	6	6	2	-	9	10	800
	Aberdeen	1010.2	-22	SSW	3	roro	59	85	7	6	2	-	4-6	10	2500
	Wick	1008.9	-24	ESE	2	rr	53	97	5	9	2	-	7-8	10	220
16	Lerwick	1010.4	-18	NE	3	roro	49	92	7	5	2	-	7-8	10	800
17	Blacksod Point	1012.4	-18	SW	2	pro	59	97	7	6	-	-	10	10	220
18	Malin Head	1012.5	-14	SW	3	c	57	92	8	5	-	-	7-8	7-8	5700
	Aldergrove	1013.3	-26	SW'S	3	c	59	95	8	6	2	-	7-8	10	1500
19	Birr Castle	1015.6	-10	WSW	3	c/pr	61	85	7	9	1	-	7-8	10	1500
20	Valentia Obsy. †	1017.6	-14	SW'W	4	dr	58	97	5	5	-	-	10	10	800
	Roches Point	1017.5	-18	W'S	3	id	61	97	7	5	-	-	9+	9+	800

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

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)	1013.9	-12	WNW	3	c	75	35	8	5	7	-	4-6	7-8	2500	0	*
Croydon	1014.2	-10	NW'W	3	c	76	45	7	4	5	-	4-6	9	5700	0	*
S. Farnborough	1014.0	-10	WNW	3	c	75	45	8	4	3	-	4-6	9	4000	0	*
Boscombe Down	1015.3	-6	W'N	3	c	68	55	8	5	3	-	4-6	7-8	4000	0	*
Calshot (Soton.)	1015.4	-12	SW	4	bc	69	75	7	-	3	-	0	7-8	-	0	2
Lympne	1015.4	-12	SSW	2	b	67	65	8	-	3	-	0	2-3	-	0	§3
Manston	1014.9	-20	SW'S	4	zo	73	55	6	-	3	2	0	4-6	-	0	*
Shoeburyness	1013.5	-18	SW'S	3	bc	73	65	7	-	9	-	0	7-8	-	0	*
Felixstowe	1012.9	-28	SW	2	c/pr	66	85	7	2	3	-	2-3	9+	4000	1	2
Gorleston	1013.3	-14	S'W	4	c	66	75	7	5	7	-	4-6	9	2500	0	3
Mildenhall	1012.6	-14	WNW	2	c	76	35	7	4	7	-	7-8	9	5700	0	*
Cranwell	1012.5	-18	W	3	c	70	45	7	5	7	-	4-6	9+	4000	0	*
Birmingham	1012.9	-14	WSW	3	c	69	45	8	-	7	-	0	9+	-	0	*
Upper Heyford	1014.7	-10	WSW	4	c	69	25	8	5	7	-	7-8	9+	4000	0	*
Ross-on-Wye	1014.8	-12	WSW	4	c	65	55	8	-	7	-	0	9+	-	0	*
Hartland Point	1016.4	-16	W	4	c	61	85	8	8	7	-	7-8	9	2500	0	3
Bristol	1015.8	-16	W'S	4	c	64	65	8	5	3	-	2-3	7-8	4000	0	*
Portland Bill	1016.3	-24	SW	4	c	62	92	8	5	4	-	4-6	7-8	4000	1	2
Plymouth	1017.0	-10	NW	3	c	67	65	7	4	7	-	2-3	7-8	4000	0	2
The Lizard	1017.7	-14	W	4	bc	62	85	8	8	5	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1018.3	-12	W'S	4	c	62	75	8	8	7	3	2-3	7-8	2500	0	1
Guernsey																
Pembroke	1014.9	-12	WSW	4	c/pr	60	85	7	8	2	-	7-8	9+	800	1	3
Holyhead	1011.8	-26	SW'S	4	c	58	92	7	5	2	-	9+	10	2500	0	2
Chester (Sealand)	1012.7	-18	SW	4	c	65	55	8	5	7	-	4-6	9+	5700	0	*
Manchester	1012.7	-18	SW'W	2	c	66	45	8	-	7	-	0	10	-	0	*
Spurn Head	1012.1	-4	-	0	c	67	65	6	5	-	-	9+	9+	2500	0	1
Catterick	1011.2	-20	W	3	c	63	55	8	6	7	-	4-6	9+	4000	0	
Tynemouth	1011.3	-20	SW	3	c	65	55	7	8	-	-	9+	9+	2500	0	1
St. Abbs Head	1008.7	-10	SW	4	c	59	65	8	8	6	-	7-8	10	1500	0	3
Leuchars	1007.8	-20	SW	4	c	59	85	7	5	2	-	7-8	10	2500	0	*
Renfrew (Abbots I.)	1009.1	-22	WSW	2	c/d	57	92	6	5	2	-	9+	10	1500	1	*
Eskdalemuir	1008.5	-32	SW'S	4	dd	54	97	5	-	2	-	10	10	220	1	*
Point of Ayre	1010.9	-20	WSW	3	dd	58	97	6	6	2	-	7-8	10	1500	1	2
Tiree	1007.7	-16	WSW	2	c	56	97	7	8	-	-	9+	9+	1500	0	2
Stornoway	1007.8	-10	NNW	3	c	55	85	8	5	7	-	4-6	10	2500	1	2
Dalwhinnie	*	-22	SW	3	c	53	92	6	6	2	-	9+	10	1500	1	
Aberdeen	1006.9	-16	-	0	c/r	59	92	7	8	7	-	2-3	9+	2500	1	1
Wick	1006.1	-18	N	1	c	56	92	8	8	7	7	7-8	10	800	1	1
Lerwick	1006.9	-12	NE	4	c/r	60	92	8	8	7	-	7-8	9+	800	1	*
Blacksod Point	1010.2	-12	W'S	3	ido	58	97	7	6	-	-	10	10	<150	1	3
Malin Head	1008.1	-24	SW	1	rf	57	97	2	-	-	-	10	10	<150	0	1
Aldergrove	1009.4	-26	SW'S	3	c/r	58	92	8	5	2	-	7-8	10	1500	1	*
Birr Castle	1012.1	-20	WSW	2	c/pr	60	85	7	9	1	-	7-8	10	1500	0	*
Valentia Obsy. †	1014.6	-14	W	4	ido	59	97	6	5	-	-	10	10	450	1	3
Roches Point	1014.3	-18	W'N	3	c	59	92	8	5	-	-	9+	9+	1500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 2nd (37)	13h.—18h. 2nd (38)	18h. 2nd to 1h. 3rd (39)	1h.—7h. 3rd (40)
London (Kew)	bcwbbcy	bcycy	cyc	crroc
Croydon	bcmob,czoy	czobccy	cyciroc	crroroc
S. Farnborough	bzobczo	bccy		orodrodc
Boscombe Down	bczoy	bccoyom	bccidorr	crmoc
Calshot (Soton.)	bzoy	bzoybc	bccmociromcmoido	
Lympne	bcby	bbcby	bbccbc	cproroc
Manston	bcmob	bbczo	bczoczo	cirmoc
Shoeburyness	b	bbc	bcc	irrodd
Felixstowe	bcbbc	bccpro	ciroc	cycrorocido
Gorleston	bc	bcc	c	cproc
Mildenhall	bc bcy	czocy	cycrorozo	rorodocmo
Cranwell	bmooczoo	bcirocy	cyc	c
Birmingham	bbcy	bfc	cir	c
Upper Heyford	bmobcmobcy	bcc	cirormo	cdddodomo
Ross-on-Wye	bccybybcy	bcycy	pocrc	ccbc
Hartland Point	cbc	bcc	rrdfdfo	dfdfc
Bristol	bcmobcy	c	cirorr	cdodd
Portland Bill	bcbc	cc	c	c
Plymouth	cbcb	bbybcc	cirodoc	cidomo
The Lizard	bc	bc	cprdf	dfidc
Scilly (St. Mary's)	cbcb	bbcc	codd	cddcido
Guernsey				
Pembroke	bcpro	proc	roifo	c
Holyhead	bcwroo	c	c	dodojpc
Chester (Sealand)	czoyiroc	cy	cyzol	cmoidoirom
Manchester	czoc	czoycy	cycmo	rorDD
Spurn Head	bc	c	c	c
Catterick	ybccjp	cyproc	cyc	iroproc
Tynemouth	c	cpoc	foir	coiroc
St. Abbs Head	ciro	iroc	cpr	Ffrr
Leuchars	dodoiR	cror oc	procmoiromorromRroRc	
Renfrew (Abbots I.)	crirocido	cmoidoc	cmoirorr	cdoirobc
Eskdalemuir	cido	orrdd	oddrr	orrc
Point of Ayre	croro	dodd	dodoc	c
Tiree		c	odrro	c
Stornoway	crr PR	coro	cpro	cdodopro
Dalwhinnie	croro	ciroc		ciroc
Aberdeen	ciro	roRc	cproc	circ
Wick	Fdrc	Rprc	Ffdd	Frpr
Lerwick	crodoro	croiro	cidopr	cpriro
Blacksod Point	pro	id	c	c
Malin Head	cproc	cprocido	cDcidoc	ccproc
Aldergrove	rorrr moc	cciroc	iddododoc	idomoddo
Birr Castle	cpro	cpro	ciroc	cidc
Valentia Obsy. †	idirodr	drddddd	iddodoiddodo	dodoidcproc
Roches Point	rroid	c	c	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/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.

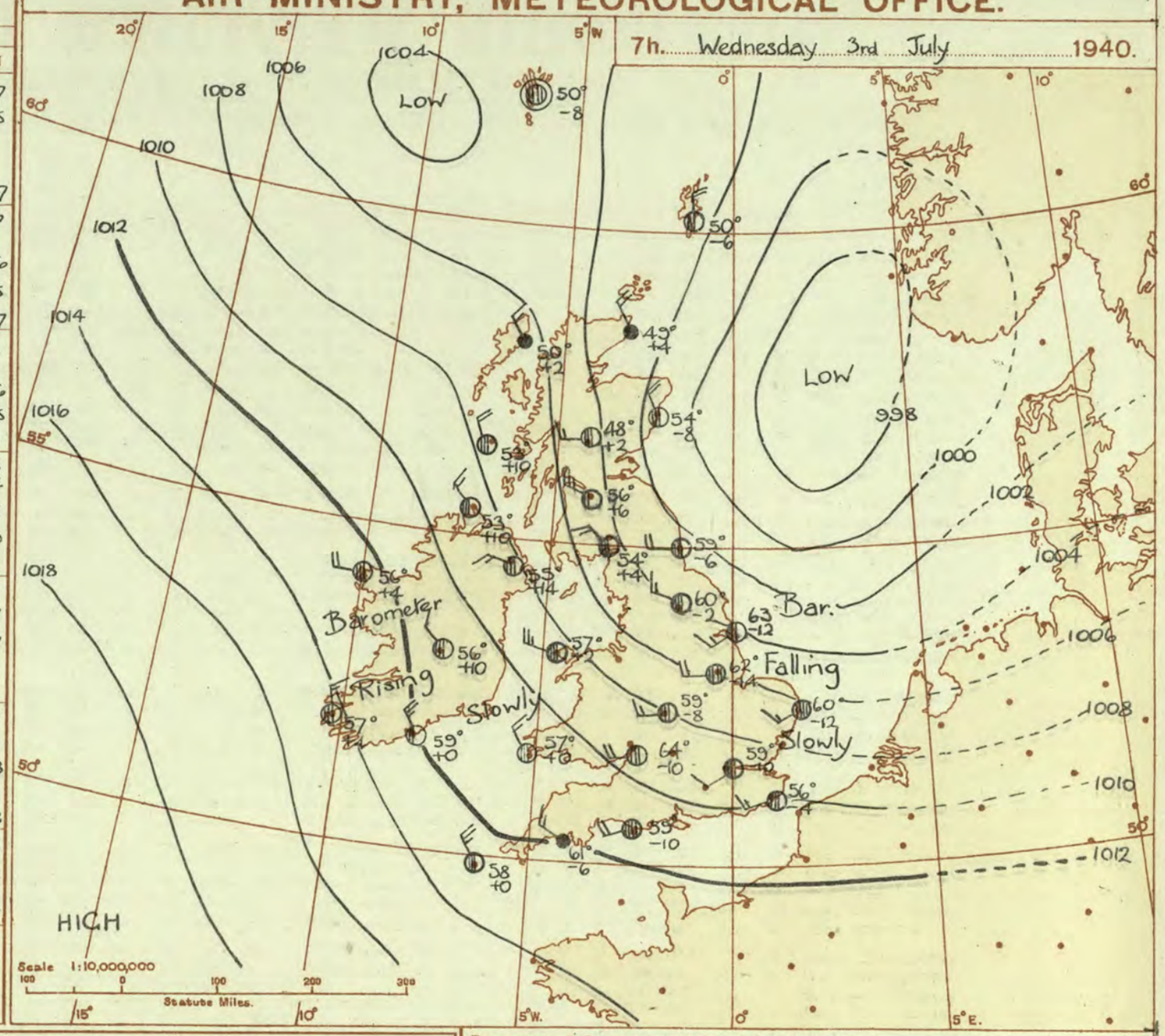
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 2nd July			18h. G.M.T.			01h. G.M.T. 3rd July			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	52	64828	03268	5-	03828	05368	5-	64528	01368	77	10856	32327
115	--	67309	20269	52	02744	20267	--	67209	04369	52	02944	29365
203												
206	52	61845	22168	52	02945	22228	52	61736	23168			
210	57	22945	22268				62	64637	24168	62	61936	30357
220	53	02834	24314	50	02735	23228				53	02854	28416
230	8-	02848	20468	51	51727	20458						
245	52	62654	21367	87	25853	22327	5-	61748	00068	77	10944	26256
260	57	02885	20467	52	02843	22368				5-	02955	26215
277	62	62617	18468	62	52625	18368	57	02745	23456	57	02723	27567
279												
285	8-	02847	24527	6-	02748	22428						
288	57	02854	24327	57	02863	22327	5-	02757	18327	57	02865	22326
273										45	01653	29365
301	--	02851	24316	--	02754	22428				--	02834	28488
321				27	02772	20326	57	05655	20428	57	21745	24355
299				5-	02747	24227				87	05644	24414
292	12	01854	24325	57	02854	24327	5-	02758	18128	57	01943	23355
310				-	02636	20326				--	57209	20423
316	08	01790	24314	17	05671	20368	57	61663	20268			
333	52	22846	20468	5-	21628	22568				5-	02937	28567
334	·	03888	18428		61746	55528				**	52737	22327
340							5-	02756	22326	7-	02947	23327
136				07	22690	26466	5-	62687	22267	5-	52645	18468
336	·	01851	24313		22853	20417				**	63742	24467
350	13	01863	20314	03	02790	20426				53	02726	20257
368	13	01852	24414				62	54527	59468	53	05634	24455
379	03	01790	26314	5-	02777	24327				6-	61738	22328
390	14	02664	20226	53	02773	24426				52	51535	22368
382				07	02890	22426				5-	51848	20328
438	00	00790	24400							-2	03548	22568
430	40	05671	18302	07	01790	22315	57	61660	24268	62	05335	22328
409	14	01753	23103	53	02845	23327	52	22636	23468			

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. 3rd July
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate W wind veering NW, fresh at times; occasional rain early in period becoming fair temporarily, bright intervals and showers tomorrow with local thunderstorms; much cooler.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Moderate or fresh NW wind; bright intervals and local showers at first, more general showers later with local thunder; much cooler.
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.	Moderate or fresh NW to W wind decreasing temporarily, freshening again later, strong locally; bright intervals, showers, local hail and thunder; cool.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light NW wind freshening; bright intervals, showers, local thunder; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or fresh W to NW wind, strong locally; bright intervals, showers, local hail and thunder; cool.

GENERAL INFERENCE.

Pressure is low over the Northern North Sea and a small depression west of the Faeroes is moving south-southeast. There will be occasional rain in the Southeast at first followed later by bright intervals and thundery showers. Elsewhere there will be bright intervals and thundery showers.

FURTHER OUTLOOK.

Bright intervals and showers, local thunderstorms.

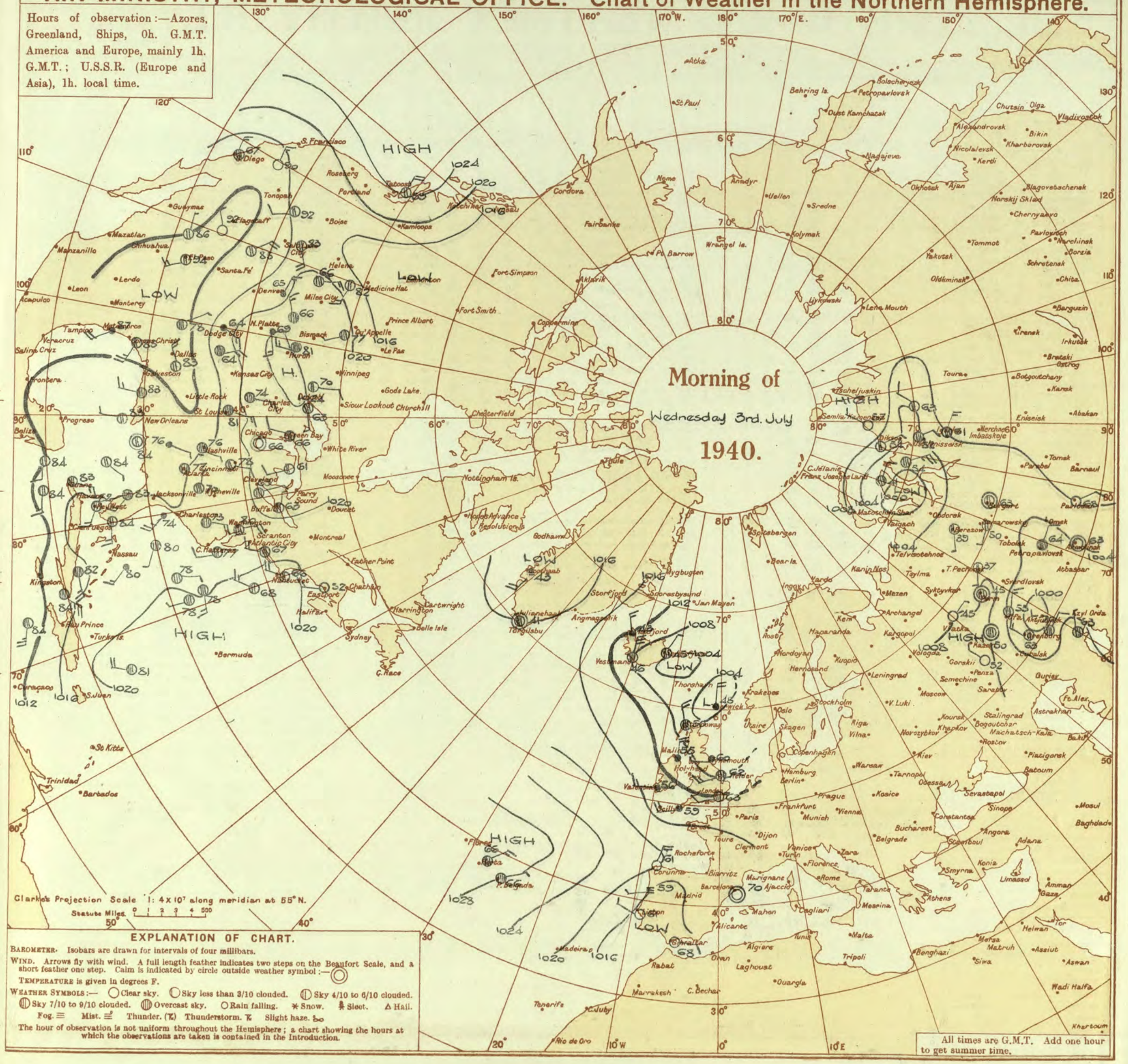
Forecasts issued at

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.04/3902. Wt. 8945. O. 3705. G. 348 (5803.8/40)

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 3rd July, 1940.

No. 28,713.

OBSERVATIONS at 1 hr. G.M.T. 3rd July,

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1011·8	-16	W'S	2	c	63	75	7	5	-	-	9+	9+	4000
	S. Farnborough	226														
	Boscombe Down	417	1012·4	-18	SW'S	3	rr	57	85	6	6	-	-	10	10	1500
	Calshot (Sthmtn.)	8	1012·7	-16	W	2	c/r	60	85	6	5	2	-	7-8	10	2500
	Lympne ...	346	1013·1	-14	WSW	2	bc	60	85	7	5	7	-	2-3	4-6	2500
	Manston ...	154	1012·4	-10	WSW	3	zo	64	75	6	5	7	-	4-6	10	5700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1010·2	-18	W	3	c	64	45	7	-	7	-	0	10	-
	Gorleston ...	5	1010·1	-16	W	3	c	63	75	7	5	-	-	10	10	2500
	Mildenhall ...	19	1010·1	-14	WSW	2	ro	59	75	6	5	2	-	7-8	10	4000
	Cranwell ...	240	1009·0	-20	SW	3	c	60	75	7	5	-	-	10	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1011·8	-18	WSW	2	c/r	57	97	6	5	2	-	9+	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011·7	-18	W	4	o/f	59	97	6	5	-	-	10	10	1500
	Bristol ...	209	1011·5	-30	SW	3	do.	57	97	5	5	-	-	10	10	1500
	Portland Bill ...	32	1012·8	-14	WSW	4	c	59	92	7	5	-	-	10	10	4000
	Plymouth ...	82	1013·4	-22	W	3	c/r	60	92	7	5	-	-	10	10	1500
	The Lizard ...	240	1014·1	-20	W	3	df	59	97	3	5	-	-	10	10	800
	Scilly (St. Mary's)	163	1014·3	-18	W'S	4	dd	59	97	5	5	-	-	10	10	1500
	Guernsey ...	175														
6	Pembroke ...	142	1011·1	-16	WNW	4	o/f	58	97	6	5	-	-	10	10	450
7	Holyhead ...	26	1007·8	-18	SW'W	4	c	57	92	7	9	-	-	9+	9+	1500
	Chester (Sealand)	16	1007·5	-30	SW'W	3	zo	60	85	6	5	-	-	9	9	1500
8	Manchester ...	70	1008·1	-26	SW	3	zo	60	85	6	5	2	-	4-6	10	1500
10	Spurn Head ...	29	1007·2	-18	SW	3	c	62	75	6	5	-	-	9	9	1500
	Catterick ...	175	1006·0	-30	S	1	c	59	85	7	5	-	-	10	10	1500
	Tynemouth ...	108	1005·0	-20	W	2	ir	60	85	6	-	2	-	10	10	1500
11	St. Abbs Head	280	1003·8	-26	SW	3	c	55	92	7	5	2	-	7-8	10	2500
	Leuchars ...	36	1003·2	-26	WNW	2	ir	55	97	4	5	-	-	10	10	800
12	Renfrew (Abbotsl.)	19	1003·4	-26	NW	2	do.	55	97	5	5	2	-	7-8	10	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1005·8	-18	W'N	5	c	58	97	7	8	2	-	7-8	9+	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1007·0	-2	NNW	3	c	50	97	7	5	7	-	4-6	9+	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1003·1	-16	E	1	D	52	97	1	-	-	-	10	10	<150
16	Lerwick ...	156	1003·7	-18	N'E	4	pr	48	97	7	8	2	-	7-8	10	800
17	Blacksod Point	18	1010·9	+8	W	4	c	55	97	7	9	-	-	9	9	450
18	Malin Head ...	84	1006·9	+6	N	3	c/pr	59	85	7	8	7	-	4-6	7-8	4000
	Aldergrove ...	268	1006·0	-10	W'S	4	do.	57	92	8	6	-	-	10	10	800
19	Birr Castle ...	173	1010·0	-4	WSW	2	c	56	92	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	30	1014·3	-6	NW'W	3	do.	56	97	6	5	-	-	10	10	220
	Roches Point	22	1012·0	-6	WNW	4	c	60	92	8	5	-	-	9+	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 3rd July,

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)	1008·7	-12	SW'W	2	c	61	85	8	5	-	-	10	10	1500	1	*
	Croydon ...	1009·2	-10	SW	2	c	59	92	8	5	-	-	7-8	10	1500	1	*
	S. Farnborough	1008·6	-14	SW'W	2	c	60	85	8	5	-	-	9+	9+	1500	1	*
	Boscombe Down	1008·9	-14	SW	4	c	60	92	7	5	-	-	9+	9+	1500	1	*
	Calshot (Sthmtn.)	1009·7	-12	WSW	4	c	63	85	7	5	-	-	9+	10	1500	0	2
	Lympne ...	1011·3	-4	WSW	3	c/r	56	55	8	5	2	-	2-3	10	450	0	§3
	Manston ...	1009·7	-14	WSW	4	zo	61	85	6	5	7	-	7-8	10	1500	0	*
2	Shoeburyness ...	1009·3	-8	SW	4	o	61	85	8	5	-	-	10	10	1500	1	*
	Felixstowe ...	1008·4	-10	W'S	4	do.	59	97	6	6	2	-	7-8	10	800	1	2
	Gorleston ...	1006·2	-12	SW	3	c	60	85	7	5	-	-	10	10	2500	0	1
	Mildenhall ...	1006·9	-10	SW	3	c/d	59	92	6	5	2	-	7-8	10	1500	0	*
	Cranwell ...	1005·7	-14	W	4	c	62	85	7	5	-	-	10	10	800	0	*
3	Birmingham ...	1006·9	-8	W	3	c	59	92	6	5	-	-	9+	9+	800	1	*
	Upper Heyford	1008·7	-4	WSW	2	do.	60	92	7	6	7	-	9	9+	450	1	*
4	Ross-on-Wye	1008·0	-10	W	4	c	64	75	8	8	-	-	7-8	7-8	2500	0	*
5	Hartland Point	1010·1	-2	NW	4	d	59	97	5	6	2	-	7-8	10	1500	1	3
	Bristol ...	1009·0	-10	W	3	c/d	61	92	7	5	7	-	9	9+	800	1	*
	Portland Bill ...	1010·4	-10	WSW	4	c	59	92	7	5	-	-	10	10	2500	1	3
	Plymouth ...	1011·0	-6	WNW	3	do.	61	92	6	5	2	-	7-8	10	800	1	2
	The Lizard ...	1012·0	-8	W'N	3	c	59	97	7	8	2	-	7-8	9	1500	1	2
	Scilly (St. Mary's)	1012·7	0	NW	5	c/d	58	97	8	5	-	-	9	9	1500	1	2
	Guernsey ...																
6	Pembroke ...	1009·9	0	NW	3	c	57	92	8	5	-	-	9	9	1500	1	2
7	Holyhead ...	1007·3	+2	W'N	5	cjp	57	92	6	9	3	-	7-8	9+	450	1	3
	Chester (Sealand)	1006·6	0	W	3	DR	57	92	4	6	2	-	7-8	10	800	1	*
8	Manchester ...	1006·0	-2	WNW	4	DD	57	97	5	6	2	-	7-8	10	450	1	*
10	Spurn Head ...	1004·3	-12	SW	3	c	63	75	6	8	-	-	9+	9+	1500	0	2
	Catterick ...	1003·6	-2	WNW	3	c	60	75	8	8	3	-	7-8	9	2500	0	*
	Tynemouth ...	1002·5	-6	W	4	c	59	85	7	8	-	-	9	9	2500	*	*
11	St. Abbs Head	1001·9	+2	NW	4	c/r	54	97	7	5	2	-	9	10	450	1	2
	Leuchars ...	1002·3	-2	WNW	2	c	56	85	9	8	-	-	7-8	7-8	2500	1	*
12	Renfrew (Abbotsl.)	1004·4	+6	WNW	5	bc	56	75	9	8	4	6	2-3	4-6	2500	1	*
	Eskdalemuir ...	1003·4	+4	NW'W	3	c	54	85	8	5	-	-	7-8	7-8	1500	1	*
	Point of Ayre ...	1006·4	+10	NW'N	5	c	56	92	8	8	-	-	9	9	1500	1	3
13A	Tiree ...	1007·0	+10	NNW	4	c	53	85	8	8	-	-	7-8	7-8	1500	0	3
13B	Stornoway ...	1006·3	+2	NW	3	pr	50	92	7	5	7	-	9+	10	1500	1	2
15	Dalwhinnie ...	1004·9	+2	W	3	c	48	85	7	5	3	-	7-8	9	1500	1	*
	Aberdeen ...	1001·6	-8	NW'N	4	c	54	85	8	5	7	-	2-3	9+	1500	1	1
	Wick ...	1003·3	+4	NNW	4	pr	49	97	7	5	2	-	7-8	10	800	1	2
16	Lerwick ...	1002·5	-6	N	4	c	50	85	8	8	7	-	7-8	9+	1500	1	*
17	Blacksod Point	1012·1	+4	W	4	c	56	85	8	5	-	-	9	9	800	0	3
18	Malin Head ...	1008·4	+10	NW	3	c	53	75	8	2	6	-	4-6	7-8	5700	0	4
	Aldergrove ...	1008·3	+14	WNW	3	c	55	85	8	8	3	-	9	9+	1500	1	*
19	Birr Castle ...	1011·5	+10	NW	2	c	56	85	8	8	1	-	7-8	9	1500	0	*
20	Valentia Obsy.	1014·4	+4	N'W	3	c/pr	57	97	8	8	-	-	9+	9+	1500	1	2
	Roches Point	1011·4	0	NW	5	bc	59	85	8	5	-	-	4-6	4-6	1500	0	2

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 2nd Hrs. (36)
London (Kew)	79	58	54	—	1	11·8
Croydon ...	81	55	53	-	1	10·5
S. Farnborough	80	56	55	-	1	10·9
Boscombe Down	78	57	54	-	0·4	10·6
Calshot (Sthmtn.)	75	59	57	-	0·1	13·1
Lympne ...	73	56	56	-	0·2	13·6
Manston ...	77	58	57	-	Tr	12·6
Shoeburyness ...	76	55	55	-	1	9·3
Felixstowe ...	68	56	54	Tr	1	9·2
Gorleston ...	66	59	55	-	0·3	10·3
Mildenhall ...	80	58	56	-	Tr	9·5
Cranwell ...	77	59	58	Tr	Tr	7·9
Birmingham ...	73	57	57	-	2	7·1
Upper Heyford	79	56	55	-	0·3	*
Ross-on-Wye	75	58	57	-	1	9·1
Hartland Point	63	57	57	-	4	8·1
Bristol ...	73	57	56	-	2	9·5
Portland Bill ...	63	57	*	-	0·6	*
Plymouth ...	69	59	57	-	0·5	11·1
The Lizard ...	66	58	*	-	1	11·0
Scilly (St. Mary's)	68	58	*	-	0·6	10·6
Guernsey ...						
Pembroke ...	63	56	*	Tr	5	5·5
Holyhead ...			55	Tr	Tr	1·8
Chester (Sealand)	69	57	56	Tr	0·3	3·3
Manchester ...	71	57	56	-	1	4·2
Spurn Head ...	71	59	*	-	-	7·6
Catterick ...	67	58	56	Tr	Tr	4·2
Tynemouth ...	67	57	52	Tr	*	*
St. Abbs Head	62	53	*	0·4	8	*
Leuchars ...	61	53	53	1	5	0·3
Renfrew (Abbotsl.)	58	53	50	1	5	0·0
Eskdalemuir ...	59	53	51	3	6	0·0
Point of Ayre ...	67	54	*	0·4	*	0·8
Tiree ...	58	51	*	4	3	0·0
Stornoway ...	61	48	*	10	1	0·0
Dalwhinnie ...	56	47	46	5	5	0·0
Aberdeen ...	62	52	51	5	3	0·4
Wick ...	58	49	*	6	5	*
Lerwick ...	56	47	*	2	0·2	0·0
Blacksod Point	64	54	*	0·5	1	*
Malin Head ...	60	50	*	2	4	0·0
Aldergrove ...	59	53	51	5	0·3	0·0
Birr Castle ...	62	54	53	0·5	0·4	0·0
Valentia Obsy.	60	55	53	2	1	0·0
Roches Point	63	57	*	1	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew ...	18	bcubbcy	bcycy	cycrsc	79	58	54	-	1	11·8	•	•	8
Croydon ...	217	bcmobcy	czobcy	cycrsc	81	55	53	-	1	10·5	•	•	8
Greenwich (Royal Observatory) ...	149	bcy	cy	circ	82	55	53	-	1		32	81	7
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	80	57	55		1	10·1	53	87	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•									•
Camden Square ...	110	b	bc	•	81	57	56	-	2	•	•	82	•
Kensington ...	80	bzbc	c	•	81	57	55	-	2		35	83	•
Hampstead Observatory ...	450	b	bco	or	79	54	53	-	2		•	96	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
<0·1	whole	period	

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 2nd July Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 3rd July 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 ,,	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.

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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 4th July 1940.

No. 28,714.

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

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)...	1007.1	-8	WSW	3	c	69	65	8	5	-	-	9+	9+	2500
	Croydon ...	1007.0	-12	W'S	3	c	70	65	7	2	6	-	4-6	9	2500
	S. Farnborough	1007.3	-6	W'N	4	c	67	65	8	7	7	-	7-8	9+	2500
	Boscombe Down	1008.1	-2	W'N	3	c	65	65	8	8	7	-	7-8	7-8	1500
	Calshot (Soton.)	1008.1	-6	W	4	c	70	65	8	7	-	-	9	9	2500
	Lympne ...	1008.7	-12	SW	3	c	65	85	7	5	-	-	9+	9+	800
	Manston ...	1007.2	-10	SW'S	3	ir$_0$	66	85	7	5	7	-	7-8	10	4000
2	Shoeburyness ...	1007.3	-14	SW	4	c	70	65	7	8	-	-	9+	9+	4000
	Felixstowe ...	1006.2	-6	SW'W	3	c	68	75	7	8	-	-	9	9	2500
	Gorleston ...	1005.7	-8	SW	3	c/pr	67	76	7	8	-	-	7-8	7-8	2500
	Mildenhall ...	1005.5	-4	W'S	3	c	69	65	8	8	-	-	9	9	2500
	Cranwell ...	1005.4	+2	NW	5	c	68	45	7	8	-	-	9+	9+	2500
3	Birmingham	1007.1	+6	NW	4	c	61	65	8	8	-	-	9	9	2500
	Upper Heyford	1007.4	-2	WNW	2	pr	64	65	7	8	-	-	9+	9+	1500
4	Ross-on-Wye ...	1008.0	0	WNW	4	c	66	85	9	8	-	-	9	9	4000
5	Hartland Point	1010.8	+4	NNW	3	c	59	85	9	5	-	-	9	9	2500
	Bristol ...	1008.7	-2	W	3	c	64	75	8	8	-	-	7-8	7-8	1500
	Portland Bill ...	1009.4	-4	W	3	c	62	85	8	5	4	-	4-6	7-8	4000
	Plymouth ...	1010.7	+4	NW	4	c/pr	62	75	8	8	-	-	9+	9+	1500
	The Lizard ...	1012.4	+4	WNW	4	c	63	75	8	8	2	-	7-8	9	2500
	Scilly (St. Mary's)	1013.1	+4	NW'W	4	c	63	75	8	8	7	-	7-8	9+	800
	Guernsey ...														
6	Pembroke ...	1010.9	+2	NW	3	bc	61	85	9	8	7	-	4-6	4-6	1500
7	Holyhead ...	1009.2	+4	WNW	4	bc	60	75	9	8	-	-	4-6	4-6	2500
	Chester (Sealand)	1008.4	+6	WNW	6	c	60	65	8	2	7	9	4-6	7-8	2500
8	Manchester ...	1007.2	+6	W'N	5	bc	62	65	8	8	4	-	4-6	7-8	2500
10	Spurn Head ...	1003.7	0	WNW	4	c	70	65	6	9	-	-	7-8	7-8	800
	Catterick ...	1003.9	+2	WNW	3	bc	68	45	8	8	-	-	4-6	4-6	2500
	Tynemouth ...	1004.1	+2	NE	2	c/pr	55	97	8	8	-	-	7-8	7-8	2500
11	St. Abbs Head	1004.3	+10	NW	3	c/r	52	92	8	3	6	-	4-6	7-8	1500
	Leuchars ...	1004.1	+4	E	1	pr	59	85	8	8	-	-	9	9	1500
12	Renfrew (Abbots I.)	1005.9	+2	NW'W	5	bc	62	55	9	8	6	-	4-6	4-6	4000
	Eskdalemuir ...	1004.2	+4	WNW	5	bc	60	65	8	7	-	-	4-6	4-6	2500
	Point of Ayre ...	1007.8	+4	NNW	6	b	61	65	8	2	-	-	1	1	4000
13A	Tiree ...	1007.5	+2	NW'N	3	bc	56	85	8	8	3	6	4-6	4-6	2500
13B	Stornoway ...	1005.8	-6	WNW	3	c/pr	55	85	8	5	7	-	7-8	9+	1500
15	Dalwhinnie ...	*	+4	NW	2	rr	49	85	6	-	2	-	10	10	800
	Aberdeen ...	1003.7	+6	N	3	bc	58	65	8	2	3	-	4-6	7-8	2500
	Wick ...	1004.0	+2	NNW	3	c	55	65	8	8	7	8	4-6	7-8	1500
16	Lerwick...	1002.5	+4	NNW	4	c	54	75	8	8	7	-	7-8	9	1500
17	Blacksod Point..	1013.8	+4	NW	4	c	58	65	8	5	-	-	9+	9+	2500
18	Malin Head ...	1009.7	+4	NW	3	c	55	85	8	4	6	-	7-8	7-8	5700
	Aldergrove ...	1009.5	+6	NW	4	c/pr	55	85	9	2	-	-	9+	9+	2500
19	Birr Castle ...	1011.9	+2	NNW	3	c	64	45	8	8	-	-	7-8	7-8	2500
20	Valentia Obsy. †	1015.8	+4	NW	4	c	60	85	8	8	-	-	7-8	7-8	2500
	Roches Point ...	1012.7	+2	N'W	5	bc	63	75	9	8	3	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 3rd July

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)...	1006.6	+2	NNW	3	c	67	55	8	8	-	-	9	10	2500	0	*
Croydon ...	1006.4	-4	NW'N	3	c	67	65	8	3	6	3	9	9+	4000	0	*
S. Farnborough	1007.0	0	NW	3	c	65	65	8	8	3	-	7-8	9	4000	0	*
Boscombe Down	1007.9	+4	NW	3	bc	64	55	8	8	-	-	7-8	7-8	4000	0	*
Calshot (Soton.)	1007.3	-4	NW	5	bc	68	65	8	8	4	-	4-6	7-8	4000	0	1
Lympne ...	1007.0	-10	SW	3	c	67	75	8	2	6	-	4-6	7-8	4000	0	§3
Manston ...	1005.5	-6	S	2	TLR	63	92	6	9	7	-	9+	10	800	1	*
Shoeburyness ...	1006.3	0	NW	3	c/pr	68	65	8	8	4	1	4-6	7-8	4000	0	*
Felixstowe ...	1005.6	-2	NW	3	c	70	55	8	2	6	3	4-6	7-8	4000	1	2
Gorleston ...	1005.2	0	NW	3	c	68	45	7	5	-	-	9	9	2500	0	1
Mildenhall ...	1005.2	-4	WNW	5	bc	68	45	8	7	6	-	2-3	4-6	4000	0	*
Cranwell ...	1005.8	+2	W'N	5	bc	65	45	7	4	4	-	Tr	Tr	4000	0	*
Birmingham	1007.9	0	NNW	4	bc	63	55	8	1	6	-	2-3	4-6	4000	0	*
Upper Heyford	1007.5	-2	NW'W	3	c	64	65	8	8	6	6	4-6	9	4000	1	*
Ross-on-Wye ...	1008.2	0	NNW	3	c	65	59	9	8	-	-	7-8	7-8	4000	0	*
Hartland Point	1011.1	0	NW	3	c	59	85	9	2	7	-	1	9	2500	0	3
Bristol ...	1008.6	0	NW	4	bc	65	45	9	2	4	1	2-3	2-3	2500	0	*
Portland Bill ...	1009.4	-2	WNW	3	bc	59	85	8	1	-	-	4-6	4-6	4000	1	3
Plymouth ...	1011.0	+2	NW	3	bc	64	55	8	2	6	-	4-6	4-6	2500	0	2
The Lizard ...	1012.4	+4	NW	4	bc	62	85	8	8	6	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1013.4	+2	NW'W	4	c	64	75	8	8	4	2	4-6	9	1500	0	2
Guernsey ...																
Pembroke ...	1011.1	0	WNW	3	c	59	85	9	8	7	-	4-6	7-8	1500	1	2
Holyhead ...	1009.8	+4	N'E	2	c	58	85	9	8	3	-	7-8	9+	2500	0	2
Chester (Sealand)	1008.8	+4	WNW	5	bc	59	65	8	8	6	-	4-6	4-6	2500	0	*
Manchester ...	1007.8	+4	WNW	4	bc	61	65	8	1	-	-	4-6	4-6	4000	0	*
Spurn Head ...	1005.7	+2	NE	2	c	57	92	8	9	-	-	9	9	800	1	1
Catterick ...	1005.2	+8	NE'N	1	z$_0$	62	65	6	8	6	-	4-6	4-6	2500	0	
Tynemouth ...	1005.6	+4	E	2	c/pr	54	85	7	8	-	-	9	9	2500	1	1
St. Abbs Head	1004.8	0	SE	2	c	55	85	8	8	2	-	7-8	9+	1500	0	1
Leuchars ...	1004.3	0	S	2	r/Hr	54	92	6	5	7	-	7-8	9+	450	1	*
Renfrew (Abbots I.)	1006.2	+4	W'N	4	bc	58	55	9	8	6	1	4-6	7-8	2500	0	*
Eskdalemuir ...	1004.8	+4	WNW	5	bc	55	65	8	7	-	-	2-3	7-8	2500	1	*
Point of Ayre ...	1008.4	+2	NW'N	5	c	57	75	8	8	7	3	4-6	9+	2500	0	3
Tiree ...	1006.4	-8	W'N	4	c	54	85	6	8	3	-	4-6	7-8	1500	0	4
Stornoway ...	1004.9	-8	WSW	3	rr	50	92	7	8	7	-	9	9+	1500	1	2
Dalwhinnie ...	1005.1	0	WSW	4	c	51	75	8	5	2	-	7-8	10	2500	1	*
Aberdeen ...	1004.2	0	SE	2	ir$_0$	54	75	7	9	7	-	7-8	7-8	1500	0	1
Wick ...	1003.6	0	SSE	2	pr	55	75	8	8	7	8	7-8	9-	800	1	1
Lerwick...	1002.3	-2	NNE	3	c	53	75	8	8	7	-	4-6	7-8	1500	0	*
Blacksod Point..	1014.0	0	NW	5	c	55	75	8	-	6	-	0	9	-	0	3
Malin Head ...	1009.0	-6	NW'N	5	c/pr	55	85	8	9	6	-	4-6	9	5700	0	3
Aldergrove ...	1009.4	+4	WNW	3	c/pr	57	65	9	8	-	-	9	9	2500	1	*
Birr Castle ...	1012.9	+4	NNW	2	c	59	55	8	5	7	-	7-8	9	2500	0	*
Valentia Obsy. †	1016.7	+6	N'W	5	c/pr	57	75	8	8	-	-	9	9	2500	1	4
Roches Point ...	1013.3	+8	N	6	bc	61	65	9	2	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 3rd (37)	13h.—18h. 3rd (38)	18h. 3rd to 1h. 4th (39)	1h.—7h. 4th (40)
London (Kew)...	c	cypr$_0$cy	cpr$_0$cy	cbc
Croydon ...	ccid$_0$c	ccy	cvcbc	bbcc
S. Farnborough	cd$_0$m$_0$c	cpr$_0$	cbc	b,cbcv
Boscombe Down	id$_0$c	cpr$_0$	bcb	bcc
Calshot (Soton.)	cid$_0$irc	cbcc	bcb	bbc
Lympne ...	cir$_0$cm$_0$	c	cpr$_0$c	bcbbc
Manston ...	cm$_0$cir$_0$	cir$_0$TLR	TLRir$_0$	bc
Shoeburyness ...	cc	cyr$_0$rc	cbc	bcwc
Felixstowe ...	cid$_0$m$_0$c	ccpr$_0$Rc	cyb	bm$_0$bc
Gorleston ...	cpr$_0$	cy	cbc	bc
Mildenhall ...	crc	ccybcy	bcyb	bm$_0$wpc
Cranwell ...	cpr$_0$cy	c,by	by, cbc	bccpr$_0$c
Birmingham	cpr$_0$	cbc	bcc	cbc
Upper Heyford	cid$_0$c	c	cbcb	bc
Ross-on-Wye ...	cv	cubcvycv	ccbcc	cbbc
Hartland Point	cdc	cbcc	cbc	bcc
Bristol ...	c	cbcy	bcycbc	bcwcbc
Portland Bill ...	cc	cbc	bcbc	bcc
Plymouth ...	cid$_0$pr$_0$	cpr$_0$cybcy	bc	bcc
The Lizard ...	c	bc	bc	c
Scilly (St. Mary's)	cid$_0$c	cbcc	cbcc	c
Guernsey ...				
Pembroke ...	cbcv	bcpr$_0$	cbcq	cq
Holyhead ...	pr$_0$bbc	bcc	c	cpr$_0$c
Chester (Sealand)	cdrmcbc	bc	bcpr$_0$	bccprPrpr
Manchester ...	cm$_0$ODc	bcbcybc	bcpRbc	bcprpr$_0$
Spurn Head ...	c	cpr	cbc	c
Catterick ...	cbcy	bcyubc	bcbbc	bccpr
Tynemouth ...	cp	cp	cpbcc	c
St. Abbs Head	rrc	c	crcq$_0$bc	pr$_0$c
Leuchars ...	cPRcpr$_0$	cpr$_0$cHR	HRRrrcr$_0$b$_0$	bccbc
Renfrew (Abbots I.)	bc	bcy cbcy	cir$_0$pr$_0$	bcwbbc
Eskdalemuir ...	cbc	bc	bcc	BccpRc
Point of Ayre ...	bcb	c	cbcbc	PRc
Tiree ...	bcpr	c	cpr	cpr
Stornoway ...	cpr$_0$	cprrr	cpr	cprbc
Dalwhinnie ...	ccr$_0$	cir$_0$c		cir$_0$
Aberdeen ...	pr$_0$bc	bccir$_0$	cRr	rrpr$_0$c
Wick ...	cpr$_0$c	cpr	cprc	prcpr
Lerwick...	cpr$_0$	cpr$_0$	cpr$_0$	cprbc
Blacksod Point..	c	cc	bcc	rr
Malin Head ...	cpr$_0$c	c	cprc	cpr$_0$c
Aldergrove ...	prq,PRv	cypr$_0$c	cpr$_0$qc	prcir
Birr Castle ...	circy	cy	cb	bcc
Valentia Obsy. †	c	bcpr$_0$c	cpr$_0$	cpr$_0$c
Roches Point ...	cbc	bc	cir$_0$	cid$_0$

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.

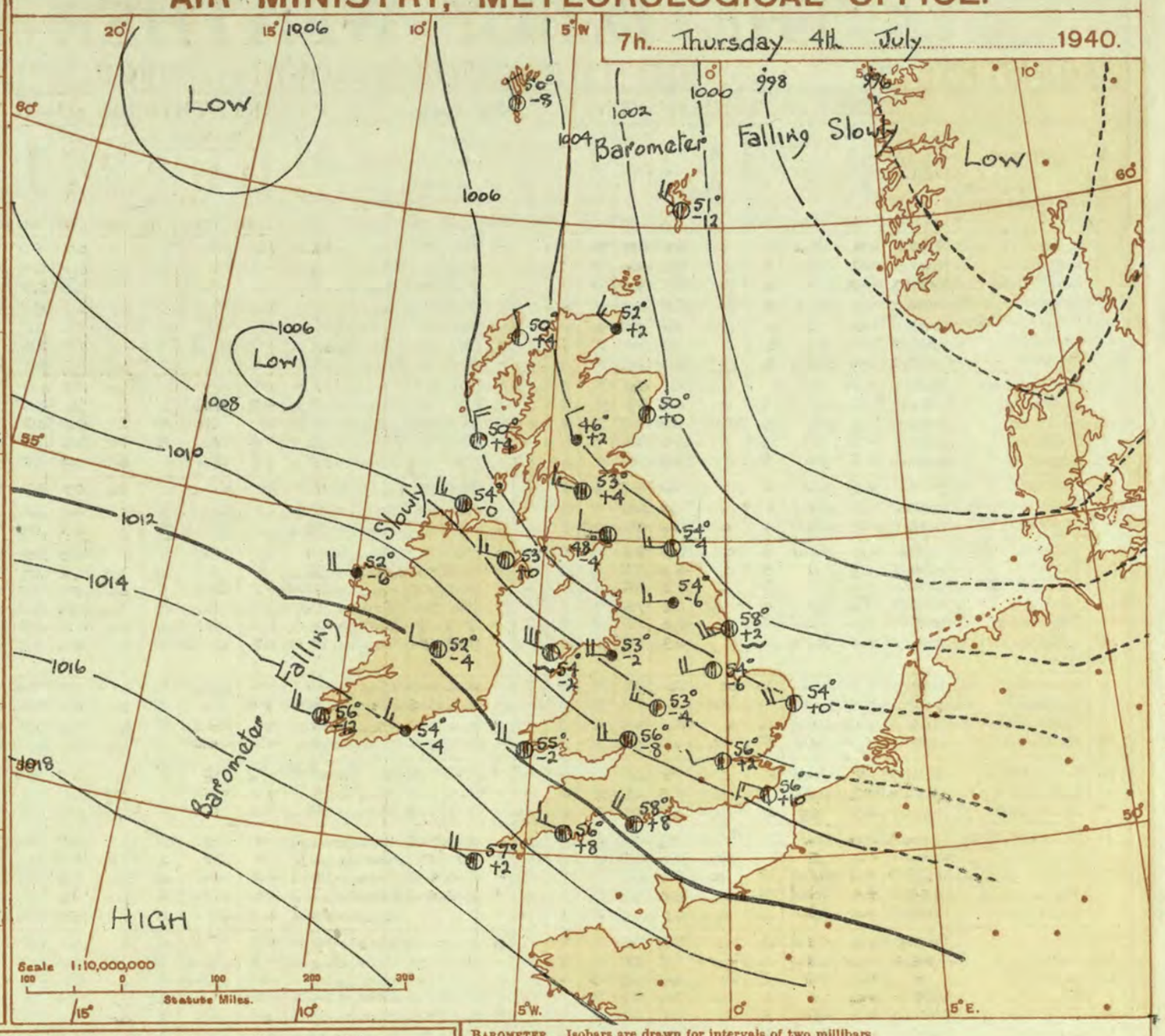
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 3rd July			18h. G.M.T.			01h. G.M.T. 4th July			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	86	02954	28325	77	02954	28224	7-	02956	10126	28	01953	31214
115	57	02944	20327	85	81734	20287	87	81844	12287	87	81944	04385
203												
206	57	25945	06186	97	25846	00088	8-	02956	00086	84	02955	00025
210	86	81845	29186	8-	81847	00087	62	64637	16168	8-	02837	32227
220	53	25854	27385							52	02844	27327
230	8-	02955	26425	8-	25758	26388				8-	25847	26387
245	87	02955	01425	86	25846	18387	52	62746	02168	87	02965	24187
260	3-	02965	28115	24	02964	24326	53	01754	20164	5-	02765	26115
277	16	01853	28584	74	02855	28526	8-	81655	25485	86	81854	27585
279												
285	20	01844	26514	20	01844	28514				9-	81747	24587
288	87	05655	06326	80	05664	04384	5-	01875	22225	84	25865	24386
273	37	01734	29416							37	01752	17103
301	--	01852	59502	--	01954	59414				--	01744	59485
321	80	02745	26415	26	00861	60402	80	01673	26313	83	02764	26314
299	8-	25746	28386	80	01744	32384	50	01744	24214			
292	84	25955	25325	8-	01855	30285	40	01854	24314	8-	10945	24385
310	--	01634	24414	--	01644	24414				--	81628	
316	24	02765	26356	17	00762	26512	54	05654	24204	83	05645	22485
338	84	01953	30514	53	02944	28225				5-	02846	28426
334		02856	30427		25775	28486					81645	26287
340	80	01954	30414				50	01864	28314	80	01945	24315
136	77	02764	24467	86	01762	32263				5-	81664	25835
336		03853	28428		01853	28514					81854	28587
350	7-	02856	28326	74	02965	26326				50	01882	25412
368	83	25846	26385	70	01855	28315	40	01762	00012	84	02854	28415
379	9-	93738	24328	70	02824	28314	03	05690	28303	73	01753	24314
390	8-	02756	23456	84	01764	28424	50	05672	28302			
382	7-	02847	24327	8-	02856	28426	50	01754	26114	77	01863	24214
438	5-	46009	24549							04	01880	28414
430				80	02864	28415	03	00790	28311	13	00851	25313
409	5-	51628	34358	83	02844	28355	50	00852	28412	8-	81847	28487

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 4th July
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate West wind, backing Southwest, veering West again later, fresh locally. Bright intervals and local thundery showers at first; rain during night, cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate or fresh Southwest wind veering West later. Occassional rain, bright intervals later; cool.
9 N. Midlands ... 10 N.E. England	Moderate Northwest wind, becoming variable, light, finally West to Northwest, moderate. Occassional rain, local thunder, bright intervals tomorrow; cool.
11 S.E. Scotland	Light Northwest wind becoming moderate. Bright intervals, showers; local thunder; cool.
12 S.W. Scotland & Isle of Man.	As 9 – 10
13 A. W. Scotld. B.N.W. Scotland.	Light or moderate Northwest wind. Bright intervals, showers, local thunderstorms; cool.
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 Southwest wind fresh locally, veering West. Rain at first, bright intervals and showers later; cool.

GENERAL INFERENCE.

Pressure is low over Scandinavia and a trough of low pressure over North England is moving southeast. A small depression off Northwest Ireland with an associated trough west of Ireland is moving east-southeast.

Rain will spread eastwards across Southern districts of England and the Midlands. In the North there will be showers and local thunderstorms.

FURTHER OUTLOOK.

Occassional rain, bright intervals.

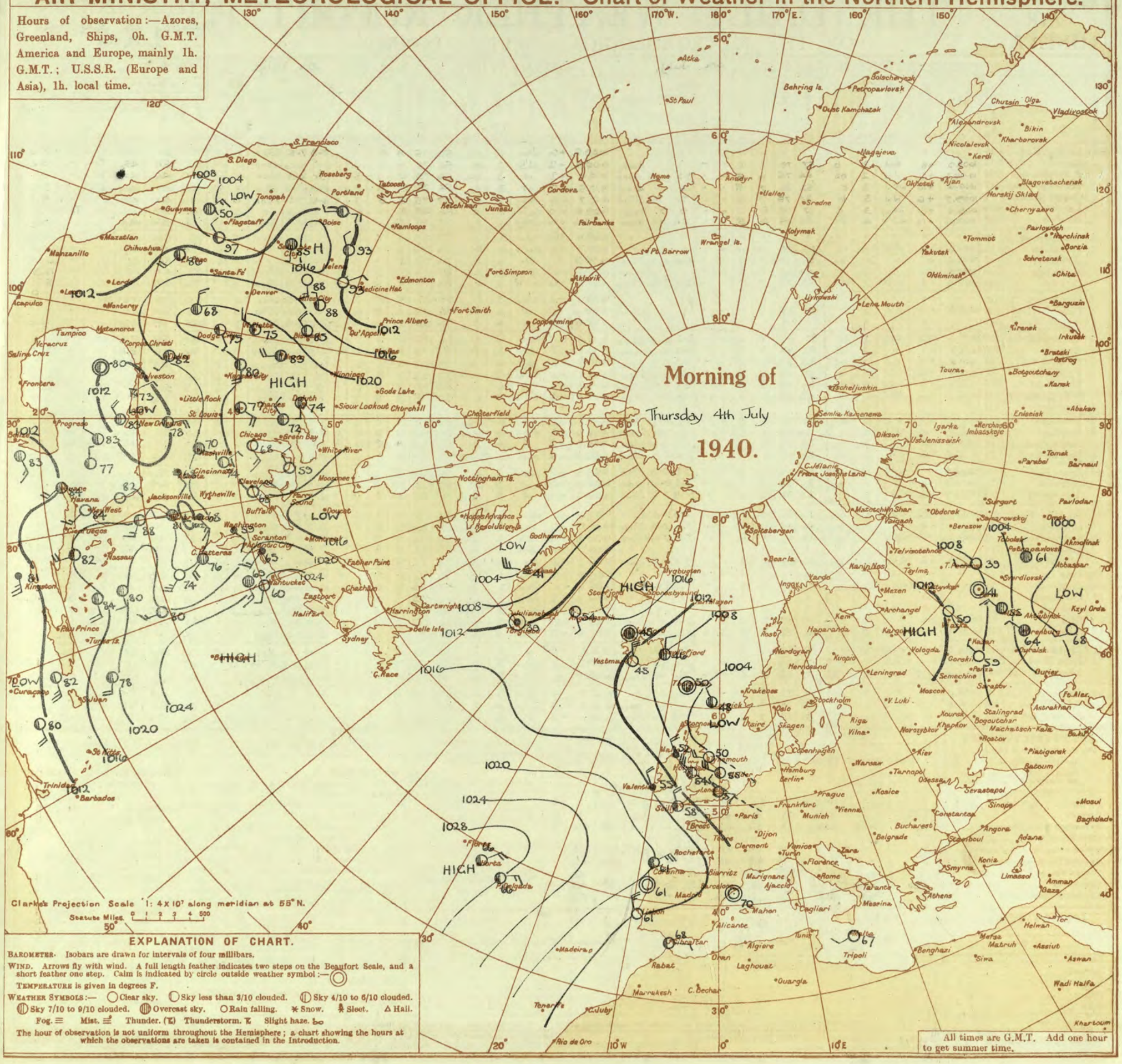
Forecasts issued at 1100 B.S.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/2902. m. 3049. o. 3765. Q. 348. (5803. E/40)

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

Thursday 4th July 1940.

No. 28.714

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

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	1008.9	+8	NW	2	b	57	75	8	5	–	–	1	1	4000
	S. Farnborough	226	1009.3	+6	W'N	2	bc	54	75	8	5	–	–	2-3	4-6	4000
	Boscombe Down	417	1010.5	+10	WNW	2	b	52	75	7	5	–	–	1	1	4000
	Calshot (Sthmtn.)	8	1009.7	+6	NW	3	b	57	75	7	5	–	–	Tr	Tr	5700
	Lympne ...	346	1008.4	+6	NNW	3	c	57	65	8	5	–	–	9	9	2500
	Manston ...	154	1007.6	+10	NW'N	4	c/r	58	65	6	5	4	–	7-8	7-8	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1007.0	+4	WNW	4	bc	56	75	7	–	6	–	0	Tr	–
	Gorleston ...	5	1006.3	0	W	3	bc	54	85	7	5	–	–	4-6	4-6	2500
	Mildenhall ...	19	1007.5	+6	W	3	bc	49	85	7	5	–	–	1	1	4000
	Cranwell ...	240	1007.8	+4	WNW	3	bc	53	75	7	5	–	–	2-3	2-3	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1009.3	+6	W'N	3	b	51	85	7	5	–	–	1	1	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012.0	+2	NNW	3	bc	57	75	8	4	–	–	4-6	4-6	2500
	Bristol ...	209	1010.7	+2	W	2	bc	53	85	7	5	–	–	4-6	4-6	4000
	Portland Bill ...	32	1010.5	+12	NW	3	bc	56	85	8	5	–	–	2-3	2-3	4000
	Plymouth ...	82	1012.5	+2	W	2	bc	57	85	8	5	–	–	4-6	4-6	2500
	The Lizard ...	240	1014.3	+8	WNW	3	bc	55	85	8	8	–	1	4-6	4-6	2500
	Scilly (St. Mary's)	163	1015.0	+6	NNW	4	c	58	75	8	8	–	–	9+	9+	1500
	Guernsey ...	175														
6	Pembroke ...	142	1012.2	+2	NW	4	bcq	55	75	8	8	4	–	4-6	4-6	2500
7	Holyhead ...	26	1009.2	-10	W'N	5	c	54	85	8	5	–	–	9+	9+	2500
	Chester (Sealand)	16	1008.7	-8	W	3	bc	53	75	7	1	7	–	2-3	4-6	1500
8	Manchester ...	70	1008.0	-4	W'N	2	bc	50	92	8	5	–	–	2-3	2-3	2500
10	Spurn Head ...	29	1005.5	0	W'N	6	bc	55	75	6	4	–	–	2-3	2-3	1500
	Catterick ...	175	1006.3	-2	S	1	bc	50	75	7	4	6	–	4-6	7-8	4000
	Tynemouth ...	108	1005.7	-6	W	3	z_0	50	92	6	8	–	–	7-8	7-8	2500
11	St. Abbs Head	280	1002.0	-26	WNW	5	cq	50	75	8	5	2	–	4-6	7-8	2500
	Leuchars ...	36	1003.1	-8	–	0	bc	50	97	8	5	–	–	7-8	7-8	2500
12	Renfrew (Abbots I.)	19	1004.6	-10	WSW	2	c/pr	49	92	8	8	–	–	7-8	7-8	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1007.3	-8	WNW	5	bc	52	85	8	4	–	–	2-3	2-3	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1004.2	+10	NNW	2	c	47	97	7	8	7	–	7-8	9+	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1003.0	-4	N	2	pr	49	97	7	8	7	–	7-8	10	800
16	Lerwick ...	156	1003.0	0	NNW	2	c	48	85	8	5	3	–	4-6	7-8	1500
17	Blacksod Point	18	1013.2	-4	WNW	4	c	53	75	7	5	–	–	9+	9+	1500
18	Malin Head ...	84	1007.6	-6	NNW	4	c/pr	52	85	7	9	–	–	4-6	7-8	4000
	Aldergrove ...	268	1007.9	-12	W	4	c	51	85	8	3	–	–	9+	9+	2500
19	Birr Castle ...	173	1013.0	-4	NW	1	b	50	92	8	–	–	–	0	0	–
20	Valentia Obsy.	30	1016.8	-6	NNW	4	pr	55	75	8	8	–	–	10	10	4000
	Roches Point	22	1015.1	0	NW'W	4	ir_0	55	85	7	6	2	–	7-8	9+	1500

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

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)	1008.5	+6	WSW	2	bc	56	75	8	5	–	–	7-8	7-8	2500	0	*
	Croydon ...	1009.4	+2	W'S	2	bc	56	75	8	5	3	–	1	4-6	4000	0	*
	S. Farnborough	1010.0	+2	W	3	bc	56	75	9	1	3	–	Tr	2-3	2500	0	*
	Boscombe Down	1010.5	+2	W	3	c	54	75	8	5	3	1	4-6	7-8	5700	0	*
	Calshot (Sthmtn.)	1010.7	+6	NW	2	c	57	75	8	5	3	–	4-6	7-8	7200	0	1
	Lympne ...	1009.8	+10	NW'W	3	bc	56	65	8	–	3	–	0	4-6	–	0	2
	Manston ...	1008.6	+6	WNW	4	z_0	57	75	6	1	3	–	4-6	7-8	800	1	*
2	Shoeburyness ...	1009.0	+6	WNW	3	c	57	65	8	2	3	–	1	9	4000	0	*
	Felixstowe ...	1007.7	+2	NW'W	4	bc	55	75	8	–	3	–	0	9	–	0	2
	Gorleston ...	1006.8	0	W'S	4	bc	54	75	7	–	3	–	0	4-6	–	0	2
	Mildenhall ...	1007.5	-2	WSW	3	c	54	75	7	7	–	–	9+	9+	5700	0	*
	Cranwell ...	1007.0	-6	SW'W	4	c	54	75	7	5	–	–	7-8	7-8	2500	0	*
3	Birmingham ...	1008.1	-4	WNW	3	m	53	75	8	5	7	–	1	4-6	2500	0	*
	Upper Heyford	1009.6	+2	W	4	bc	55	75	8	5	4	–	4-6	4-6	5700	0	*
4	Ross-on-Wye	1009.9	-8	W	4	c	56	65	8	1	–	2	4-6	7-8	2500	0	*
5	Hartland Point	1012.4	+4	NNW	4	c	55	75	8	8	7	–	7-8	9+	2500	0	3
	Bristol ...	1010.8	-2	W'S	3	bc	57	75	8	5	4	6	2-3	4-6	2500	0	*
	Portland Bill ...	1011.9	+8	NW	4	c	58	92	8	2	4	–	7-8	9	4000	1	3
	Plymouth ...	1013.2	+4	NW'W	3	c	56	65	8	8	4	–	9	9	2500	0	2
	The Lizard ...	1014.8	+4	W	4	c	56	85	8	8	2	–	9	10	1500	0	2
	Scilly (St. Mary's)	1015.0	+2	NW'W	4	c	57	75	8	5	–	–	10	10	1500	0	2
	Guernsey ...																
6	Pembroke ...	1011.4	-2	WNW	4	cq	55	75	8	8	2	–	7-8	9	1500	1	3
7	Holyhead ...	1008.6	-2	WNW	6	c	54	85	8	9	4	2	7-8	9+	1500	0	4
	Chester (Sealand)	1007.8	-2	W	4	pr	53	85	8	9	6	5	9	9+	800	1	*
8	Manchester ...	1006.8	-4	W'N	4	c/pr	53	92	6	8	–	–	7-8	7-8	1500	1	*
10	Spurn Head ...	1004.5	+2	WSW	5	c	58	65	6	2	–	–	4-6	4-6	1500	0	4
	Catterick ...	1004.6	-6	W	3	pr	54	75	9	9	–	–	9	9	2500	1	*
	Tynemouth ...	1004.2	-4	W	3	c	54	75	8	2	3	–	4-6	7-8	2500	1	1
11	St. Abbs Head	1002.6	0	WNW	3	c/pr	50	85	8	3	6	–	4-6	7-8	1500	0	2
	Leuchars ...	1002.7	+2	NW	2	bc	51	85	9	8	–	–	7-8	7-8	4000	1	*
12	Renfrew (Abbots I.)	1004.3	+4	W'N	3	bc	53	85	9	8	–	–	7-8	7-8	2500	0	*
	Eskdalemuir ...	1003.7	-4	WNW	2	c	48	85	8	8	–	–	7-8	7-8	800	1	*
	Point of Ayre ...	1006.2	-2	NW	6	bc	54	92	8	8	–	–	4-6	4-6	1500	1	4
13A	Tiree	1005.7	+4	NNW	4	c/pr	50	92	8	8	–	–	7-8	7-8	1500	1	3
13B	Stornoway ...	1005.1	+4	NNW	2	bc	50	85	9	3	7	–	4-6	4-6	2500	1	1
15	Dalwhinnie ...	1004.0	+2	NNW	2	ir_0	46	92	7	5	–	–	9+	9+	800	1	*
	Aberdeen ...	1002.9	0	NNW	2	c/pr	50	92	8	3	7	–	9	9+	1500	1	1
	Wick ...	1003.1	+2	NW	3	pr	52	85	8	5	7	8	7-8	9	800	1	1
16	Lerwick ...	1000.8	-12	NW	4	bc	51	75	8	8	7	–	4-6	4-6	1500	0	*
17	Blacksod Point	1011.8	-6	W	4	ir	52	92	7	6	–	–	10	10	800	1	3
18	Malin Head ...	1007.6	0	WNW	5	c	54	75	8	8	7	–	4-6	7-8	5700	0	3
	Aldergrove ...	1007.7	0	WNW	3	c	53	75	8	5	3	6	4-6	9+	1500	1	*
19	Birr Castle ...	1012.0	-4	WNW	2	c	52	85	8	5	1	–	7-8	10	2500	0	*
20	Valentia Obsy.	1014.8	-12	WNW	4	c	56	75	8	5	–	–	10	10	2500	0	3
	Roches Point	1014.0	-4	NW	3	id_0	54	85	8	5	7	–	4-6	9+	1500	0	2

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 3rd Hrs. (36)
1	London (Kew)	71	52	45	Tr	Tr	3.6
	Croydon ...	72	50	44	Tr	–	3.6
	S. Farnborough	72	46	36	Tr	–	3.1
	Calshot (Sthmtn.)	68	47	41	0.3	–	3.5
	Lympne ...	71	51	48	0.2	–	3.2
	Manston ...	68	49	46	Tr	Tr	2.8
2	Shoeburyness ...	72	53	50	10	1	1.6
	Felixstowe ...	75	50	40	Tr	–	4.4
	Gorleston ...	73	51	48	1	–	2.4
	Mildenhall ...	73	48	47	–	–	4.3
	Cranwell ...	72	44	35	Tr	–	5.3
3	Birmingham ...	70	49	47	Tr	Tr	8.0
	Upper Heyford	66	49	44	0.1	–	6.2
4	Ross-on-Wye	69	48	40	Tr	–	*
5	Hartland Point	68	49	46	–	–	6.0
	Bristol ...	61	54	52	0.2	–	3.4
	Portland Bill ...	68	48	40	–	–	5.9
	Plymouth ...	64	56	*	–	–	*
	The Lizard ...	66	56	51	Tr	–	4.4
	Scilly (St. Mary's)	65	54	*	Tr	–	6.4
	Guernsey ...	67	56	*	Tr	–	7.8
6	Pembroke ...	63	53	*	Tr	–	5.7
7	Holyhead ...	62	52	50	Tr	Tr	7.5
	Chester (Sealand)	61	51	47	1	6	7.4
8	Manchester ...	65	48	42	0.6	2	7.6
10	Spurn Head ...	70	51	*	1	–	5.2
	Catterick ...	70	48	43	–	0.1	8.9
	Tynemouth ...	59	50	46	7	2	*
11	St. Abbs Head	58	48	*	2	3	*
	Leuchars ...	61	*	46	6	10	1.0
12	Renfrew (Abbots I.)	63	46	41	–	Tr	10.3
	Eskdalemuir ...	61	46	43	–	4	9.3
	Point of Ayre ...	63	51	*	–	1	8.5
13A	Tiree	54	49	*	0.4	4	6.0
13B	Stornoway ...	59	45	*	2	2	1.0
15	Dalwhinnie ...	55	44	41	9	3	1.3
	Aberdeen ...	60	47	45	0.2	11	2.1
	Wick ...	57	48	*	0.4	1	*
16	Lerwick ...	55	*	*	Tr	0.2	1.8
17	Blacksod Point	60	50	*	–	2	*
18	Malin Head ...	58	48	*	2	1	3.9
	Aldergrove ...	62	49	46	1	2	4.1
19	Birr Castle ...	65	48	46	0.5	–	6.8
20	Valentia Obsy.	62	54	51	0.2	Tr	4.5
	Roches Point	66	54	*	–	0.2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine. to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew ...	18	c	cyprcy	cpr,cydbc	71	52	45	Tr	Tr	3.6	•	•	8
Croydon ...	217	ccid,c	ccy	cvcbc	72	50	44	Tr	–	3.6	•	•	8
Greenwich (Royal Observatory) ...	149	cy	drcy	dcovy	73	52	43	2.0	–	2.4	48	46	8
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	72	52	47	0.3		3.3	65	64	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	71	51	48	–	–		57	46	•
Camden Square ...	110	c	bc	•	73	52	47	–	–	•	•	53	•
Kensington ...	80	cbc	bcpbc	•	73	52	45	0.5	Tr		57	53	•
Hampstead Observatory ...	450	o	bcp	bc	70	49	43	Tr	–		•	73	•

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.
<0.1	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 ...											•	•		

‡ 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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 5th July, 1940.

No. 28,715

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

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)	1008·6	-4	NW'W	4	c	64	45	8	6	7	1	7·8	9	2500
	Croydon	1006·8	-8	W	4	c	62	55	8	8	3	4	4·6	9	4000
	S. Farnborough	1007·9	-6	WSW	5	c	65	35	8	8	3	8	7·8	9	2500
	Boscombe Down	1016·2	+2	W'N	4	c	60	55	8	8	7	-	7·8	9+	4000
	Calshot (Soton.)	1010·4	-2	WSW	4	c	63	55	8	8	7	-	7·8	7·8	4000
	Lympne	1009·8	-2	WSW	3	c	67	45	8	7	6	-	7·8	9+	4000
	Manston	1008·1	-2	W'S	4	c	64	45	8	8	3	-	7·8	9+	2500
2	Shoeburyness	1008·5	-4	W'S	3	cq	64	45	8	3	4	-	7·8	7·8	2500
	Felixstowe	1007·3	-2	W'N	4	c	66	45	8	8	-	-	7·8	9	2500
	Gorleston	1006·2	-2	W	4	c/pr	61	55	7	8	-	-	7·8	7·8	2500
	Mildenhall	1006·2	-6	W	4	c	65	45	8	8	-	3	9	9+	4000
	Cranwell	1006·0	-6	WNW	5	c	63	55	7	8	6	1	7·8	9	2500
3	Birmingham	1008·2	-2	WNW	3	c	57	65	8	8	7	-	7·8	9+	2500
	Upper Heyford	1008·3	-2	W	4	c/pr	62	55	9	8	6	-	7·8	9	2500
4	Ross-on-Wye	1009·7	0	W'N	5	c	59	55	9	8	7	-	4·6	9+	2500
5	Hartland Point	1011·9	-2	WNW	4	c/pr	58	85	9	8	7	-	9	10	2500
	Bristol	1010·4	-2	W	4	c	59	65	8	5	7	-	9	10	2500
	Portland Bill	1011·1	-12	W	4	c	62	85	8	5	-	-	10	10	4000
	Plymouth	1012·9	-2	WSW	4	pr	59	75	8	8	-	-	9+	9+	1500
	The Lizard	1014·2	-4	W	3	c/pr	59	75	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	1014·3	-6	W	4	c	62	65	8	8	7	-	4·6	10	1500
	Guernsey														
6	Pembroke	1011·7	-2	NW	3	cq	56	85	8	8	2	-	7·8	10	1500
7	Holyhead	1008·7	0	W	5	c	58	75	9	8	7	-	4·6	9+	2500
	Chester (Sealand)	1008·0	+2	WNW	5	c	59	65	8	2	-	3	4·6	7·8	1500
8	Manchester	1006·8	+4	WNW	5	c/pr	56	75	8	8	7	-	7·8	7·8	1500
10	Spurn Head	1003·4	-16	NW	7	cq	59	75	6	9	-	-	9	9	1500
	Catterick	1003·6	-2	W'S	2	c	62	55	8	3	6	1	4·6	7·8	2500
	Tynemouth	1004·4	+2	NE	3	bc	55	75	8	2	4	-	4·6	4·6	2500
11	St. Abbs Head	1003·8	+4	N	3	bc	53	75	5	2	3	3	4·6	4·6	1500
	Leuchars	1003·9	+6	NE'E	2	c/pr	56	75	8	8	7	-	4·6	9	2500
12	Renfrew (Abbots I.)	1004·0	-4	NW'W	4	c	62	55	9	8	-	4	7·8	9	2500
	Eskdalemuir	1003·4	0	WNW	3	c	57	65	8	8	-	1	7·8	7·8	1500
	Point of Ayre	1006·8	+4	NW'W	5	c	62	65	8	4	6	2	4·6	7·8	2500
13A	Tiree	1006·0	0	NW'N	3	bc	57	75	8	7	6	-	2·3	4·6	2500
13B	Stornoway	1005·0	0	NW	1	PR	52	85	8	8	7	-	7·8	9+	1500
15	Dalwhinnie	1004·4	+2	W	4	c/pr	54	65	8	8	-	-	7·8	7·8	2500
	Aberdeen	1003·5	+2	ESE	2	c/pr	55	85	8	8	-	-	9+	9+	1500
	Wick	1003·5	+2	NNW	4	c	55	65	8	8	7	1	7·8	9	1500
16	Lerwick	1000·4	0	NW	5	pr	50	85	8	8	7	-	7·8	10	800
17	Blacksod Point	1009·7	-10	W	2	c	57	75	8	5	-	-	10	10	450
18	Malin Head	1007·5	0	NW'N	4	c	56	65	8	9	6	-	4·6	7·8	5700
	Aldergrove	1007·3	-2	W'N	4	c	59	65	9	8	7	-	7·8	9+	2500
19	Birr Castle	1010·4	-10	WNW	1	c/pr	57	75	8	8	1	-	7·8	10	1500
20	Valentia Obsy. †	1011·5	-18	SW	3	c/p	58	85	8	5	-	-	10	10	1500
	Roches Point	1011·8	-12	N	2	c	56	85	9	6	1	-	7·8	9+	1500

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

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)	1008·9	+2	W	3	c	62	46	8	9	3	-	4·6	7·8	1500	0	*
	Croydon	1009·1	+2	W'N	3	c	61	55	8	2	3	3	4·6	7·8	4000	0	*
	S. Farnborough	1009·4	+4	W'S	4	c	61	55	8	8	7	-	4·6	7·8	4000	0	*
	Boscombe Down	1010·1	+2	W'S	4	c	58	55	8	8	7	-	2·3	7·8	4000	0	*
	Calshot (Soton.)	1010·3	-2	W'N	3	c	63	55	8	2	7	-	2·3	7·8	4000	0	1
	Lympne	1010·3	+4	SW	2	c	59	65	8	4	7	-	4·6	9+	4000	0	§4
	Manston	1008·5	+4	WSW	3	pr	61	55	8	8	7	-	7·8	10	2500	1	*
2	Shoeburyness	1008·6	+2	WNW	4	c	63	45	9	8	3	9	4·6	7·8	5700	0	*
	Felixstowe	1008·0	+6	W	4	cjp	61	55	8	8	6	-	7·8	9	4000	1	3
	Gorleston	1006·8	+4	NNE	3	c	62	55	7	8	-	1	7·8	7·8	2500	0	2
	Mildenhall	1007·0	+8	W'S	4	c	61	55	8	2	6	-	2·3	7·8	4000	0	*
	Cranwell	1006·7	+4	WNW	4	c	59	55	7	8	6	1	4·6	7·8	2500	0	*
3	Birmingham	1008·2	0	W	3	c	59	55	8	8	5	-	4·6	7·8	4000	0	*
	Upper Heyford	1008·8	-2	W'N	4	c	60	55	8	7	7	-	4·6	9	2500	1	*
4	Ross-on-Wye	1009·5	-4	W	4	c	59	55	8	8	6	-	7·8	9	2500	0	*
5	Hartland Point	1010·3	-12	WNW	4	c/pr	58	85	9	8	7	-	7·8	9+	2500	1	3
	Bristol	1010·5	-2	W	3	c	57	75	8	6	7	-	4·6	9+	1500	0	*
	Portland Bill	1011·1	-10	W	4	c	57	85	8	5	4	-	4·6	10	4000	1	3
	Plymouth	1011·7	-10	W'S	4	c	60	75	8	8	-	-	9+	9+	2500	0	2
	The Lizard	1012·9	-10	W	3	dd	55	97	4	5	-	-	10	10	1500	1	3
	Scilly (St. Mary's)	1011·8	-18	SW'W	4	id₀	57	97	6	8	2	-	7·8	9+	1500	1	2
	Guernsey																
6	Pembroke	1010·3	-8	W'N	2	c	56	85	8	8	-	-	9+	9+	800	1	2
7	Holyhead	1008·0	-6	SW'W	3	c	57	75	9	8	3	-	4·6	7·8	2500	0	2
	Chester (Sealand)	1007·8	-2	W'N	4	c	59	55	8	2	-	1	4·6	7·8	2500	1	*
8	Manchester	1007·2	+2	W'N	3	c	58	65	8	8	6	2	4·6	9+	2500	1	*
10	Spurn Head	1005·1	0	W'N	5	c	59	75	6	9	-	-	9	9	1500	0	4
	Catterick	1005·4	+6	WNW	1	pr	56	65	7	3	-	-	9+	9+	1500	1	
	Tynemouth	1004·9	+6	SW	2	c/pr	53	92	6	8	-	-	7·8	7·8	2500	1	1
11	St. Abbs Head	1005·6	+14	SE	2	bc	54	75	9	3	6	4	4·6	4·6	1500	0	1
	Leuchars	1003·9	-2	S	1	c/pr	55	85	8	7	7	-	4·6	7·8	1500	0	*
12	Renfrew (Abbots I.)	1004·5	+2	WNW	4	c	59	65	9	8	-	6	2·3	7·8	4000	0	*
	Eskdalemuir	1004·6	0	N	2	c	52	85	8	8	-	2	9	9+	1500	1	*
	Point of Ayre	1006·7	0	W'N	4	c	57	75	8	2	7	8	Tr	9	2500	0	2
13A	Tiree	1005·9	0	NW	3	c	54	75	8	7	-	8	2·3	7·8	2500	0	3
13B	Stornoway	1005·2	0	–	0	c/pr	52	85	8	8	7	-	7·8	9+	1500	1	0
15	Dalwhinnie	1004·8	+2	W	4	c	55	65	8	7	3	-	4·6	7·8	4000	1	*
	Aberdeen	1004·2	+2	S	2	c	54	75	7	8	-	-	9+	9+	2500	1	1
	Wick	1003·7	0	NNW	3	c	54	75	8	8	7	1	7·8	9	1500	1	1
16	Lerwick	999·7	-4	NW	5	c/pr	48	97	7	8	2	-	7·8	9+	800	1	*
17	Blacksod Point	1008·2	-10	W'S	1	c	54	85	8	5	-	-	10	10	800	0	2
18	Malin Head	1007·1	-4	N'W	3	c	55	75	8	2	8	-	2·3	7·8	5700	0	3
	Aldergrove	1006·9	-6	SW	2	pr	56	75	9	8	-	-	9+	9+	1500	1	*
19	Birr Castle	1008·5	-12	WNW	1	c	59	75	8	5	1	-	7·8	10	2500	0	*
20	Valentia Obsy. †	1009·5	-6	WNW	4	id₀	59	97	7	5	-	-	9+	9+	450	0	3
	Roches Point	1008·9	-18	W	2	c	58	85	8	5	-	-	9+	9+	1500	0	2

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 4th (37)	Weather. 13h.—18h. 4th (38)	Weather. 18h. 4th to 1h. 5th (39)	Weather. 1h.—7h. 5th (40)
1	London (Kew)	cypr₀cy	cy	cbcy	c
	Croydon	bccy	cy	cybc	bcer₀c
	S. Farnborough	bcvcy	cybcy	bcyc	cbcc
	Boscombe Down	c	c	c	cod₀d₀m₀
	Calshot (Soton.)	ccy	cy	cyc	cr₀m₀
	Lympne	bczy	cyc	cbbc	cpr₀bcc
	Manston	bczbcy	cycpr₀	cpr₀bcb	bcir₀c
2	Shoeburyness	cyq	cy	cybu	bucbc
	Felixstowe	bccvy	cvycprcvy	cqvyc,b	bm₀cbc
	Gorleston	bcpr₀c	cpr₀cy	cypr₀bc	bc
	Mildenhall	cwprcy	cybcy	bcybbc	bccm₀w
	Cranwell	cprₒcy	cy	cybcb	b,cpr₀m₀c
3	Birmingham	bccpr	cpr₀	cbc	bccpr₀
	Upper Heyford	bcpr₀cpr₀c	cpr₀c	bcc	bcer₀c
4	Ross-on-Wye	cty	cvy	cbcc	coc
5	Hartland Point	cpr₀c	cp	cpd₀c	opr₀c
	Bristol	bcc	c	cr₀cirr₀	cr₀cd₀dr₀
	Portland Bill	c	cpr	cc	oc
	Plymouth	cpr₀	cpr₀c	pr₀d₀rrid₀	idc
	The Lizard	bcpr₀c	cidm	ddcbc	bcc
	Scilly (St. Mary's)	c	cid₀	cid₀c	cp₀c
	Guernsey				
6	Pembroke	pr₀qc	c	codf	ifrqc
7	Holyhead	c	c	c	crrc
	Chester (Sealand)	cprcbcy	bccbcy	ycprd₀iR	cm₀ir₀c,m₀
8	Manchester	bcpr₀cpr₀q	pr₀pRc	cmbcc	cm₀pr₀
10	Spurn Head	ctprq	c	cbc	c
	Catterick	cprcbcy	cpr₀pr	cprbc	pr₀cir₀
	Tynemouth	cptlbc	bccp	cpcbc	bcc
11	St. Abbs Head	cbc	cbc	rrc	c
	Leuchars	cpr₀PRprcpr₀cprcprcpr₀c	cpr₀c		cpr₀c
12	Renfrew (Abbots I.)	bccpr₀	cbccy	cyc	cbc
	Eskdalemuir	cpr₀c	cprc	cbc	bccw
	Point of Ayre	c	c	cir₀	ir₀c
13A	Tiree	bc	bc	c	c
13B	Stornoway	bccpr	cpr	cPR	cpr₀bc
15	Dalwhinnie	cpr bc	cpr bc		cprbc
	Aberdeen	cr₀pr	cpr₀c	cbc	ccrc
	Wick	prc	c	cbc	bccpr
16	Lerwick	bccpr₀	cprir	crprr	cr₀rr
17	Blacksod Point	c	c	c	c
18	Malin Head	c	ccpr₀	cpr₀	c
	Aldergrove	cpr₀c	cpr₀cpr₀	pr₀ir₀c	ddir₀id₀
19	Birr Castle	cpr₀	c		c
20	Valentia Obsy. †	cpr₀c	cid₀	id₀cirr₀c	cpr₀c
	Roches Point	ir₀c	c	irbc	bcc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29—STATE OF GROUND.

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

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

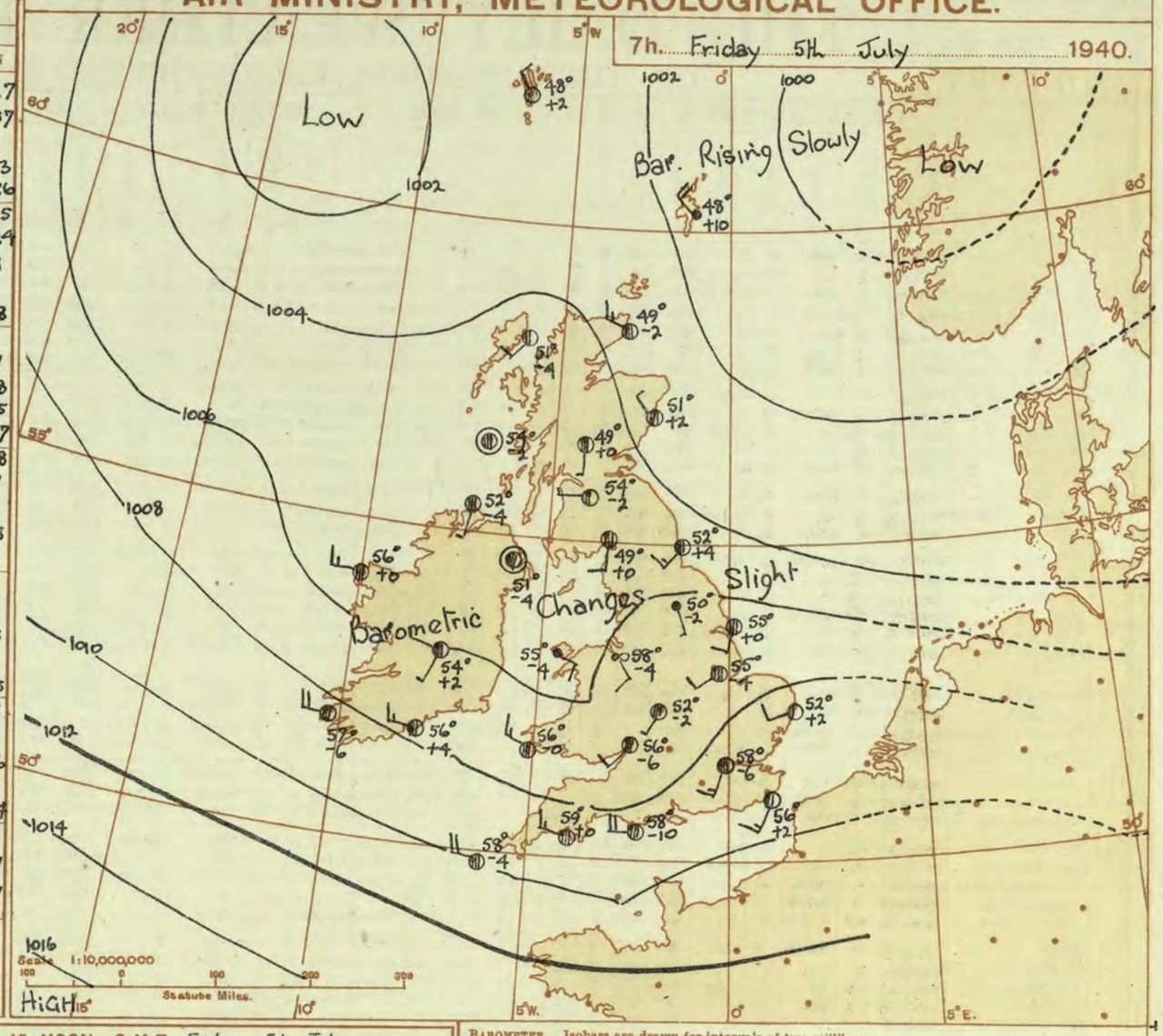
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 4th July				18h. G.M.T.			01h. G.M.T. 5th July			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	76	02965	32516	87	02956	29416	5-	03748	24288	77	03855	28127
115	87	01944	04385	71	01953	28224	71	02954	28226	71	81944	28387
203												
206	3-	81956	00086	87	25855	22287	5-	02966	00086	84	01963	00023
210	83	02954	30214	86	01954	00015	86	25844	20186	80	25945	00086
220				23	01854	25304		—		53	02854	00025
230	86	02955	26385	86	02054	26427				23	01942	00024
245	96	81745	08386	96	25845	30185	57	25846	26188	85	02963	24118
260	87	02964	24385	3-	02856	24186	50	02764	24195			
277	23	02953	26586	23	02952	27427	52	62866	20268	7-	02858	20168
279												
285	20	01845	26515	3-	82748	28488				2-	02847	24227
288	8-	25555	02385	87	02754	08185	54	01753	20284	5-	22868	18168
273	32	10665	26316							47	01663	12105
301	--	01842	25414	--	01853	25415				--	22855	24187
321	86	02754	57415	86	02764	57315				52	05685	16368
299	8-	82645	30385	87	81744	18285	5-	01744	24214	-	05547	22327
292	8-	25845	24485	86	25846	28387	40	00753	22183	52	62556	15168
310	--	01636	24526	--	01634	24514					02628	20228
316	83	02755	20525	84	01764	26414	54	05673	26203			
333	82	02943	24528	83	02955	24357				57	02835	20227
334	--	02866	26528	--	02856	23427					02845	24127
340	8-	25947	58487	8-	02947	24487				5-	02845	16225
136	96	25754	57485	86	01754	25514	04	01790	24121	53	05665	20216
336	--	81755	28488	--	02855	28527					53433	26358
350	87	25846	28387	83	02964	26285				7-	02765	16285
368	87	02845	58628	87	02855	24427	51	21647	00068	67	51647	16157
379	84	25835	24486	77	02843	26325	03	05690	28113	53	02744	24226
390	86	81855	57687	87	02855	24588	50	05662	24212	53	05665	16116
382	87	25845	25387	84	02854	23326	5-	02767	00017	14	02863	14224
438	74	0275	24516							02	67009	20369
430				87	02872	26316	27	02762	26125	57	61736	08267
409	8-	25948	26488	87	02844	23426	52	02638	24368	8-	02737	25387

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 5th July 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 5th July
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light southwest wind veering west. Cloudy, with showers and local thunderstorms; some bright intervals. Average temperature or rather cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Winds light, variable, becoming westerly. Cloudy with occassional rain early. Local showers or thunderstorms later, but with bright intervals. Average temperature or rather cool.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Winds variable light. Cloudy with occassional rain and local thunder. Rather cool.
13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland	Winds variable to northwest, light to moderate. Cloudy with occassional showers; chance of thunder inland. Rather cool.
15 N. E. Scotland 16 Orkneys and Shetlands	Winds northwest, moderate. Cloudy, with occassional rain. Rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light to moderate westerly winds. Local showers or thunderstorms, some bright intervals. Average temperature or rather cool.

GENERAL INFERENCE.

Pressure is low to the north and high to the southwest of the British Isles. A shallow secondary over North Ireland and an associated trough to Southwest England are both moving eastwards.

Temperature will be generally, slightly below average and there will be showers or thunderstorms in all areas but with some bright intervals.

FURTHER OUTLOOK.

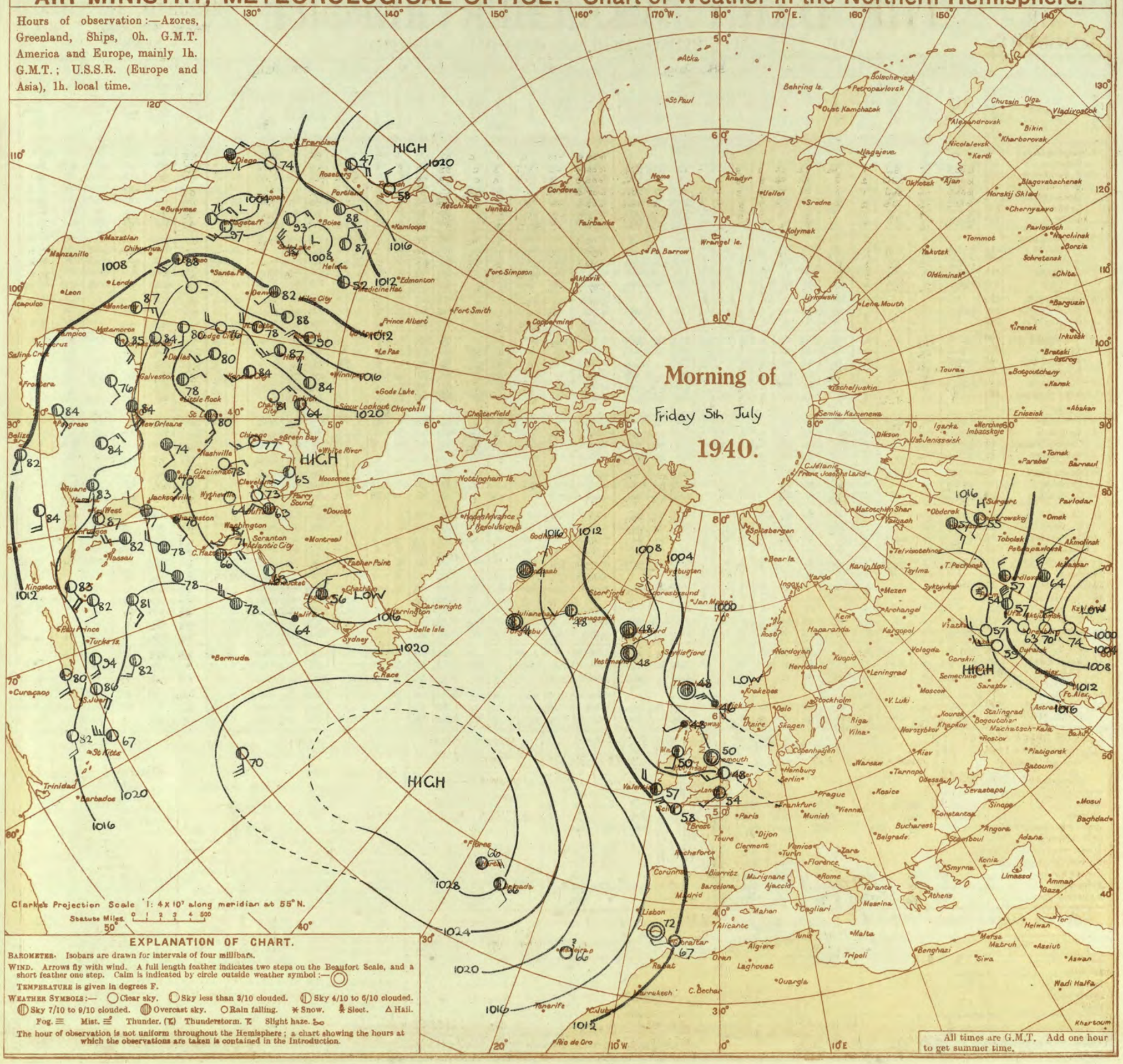
Continuing showery and rather cool.

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.
C 64/2902. Wt. 3049. D. 3705. G. 548 (5802) 8/40.

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 5th July, 1940.

No. 28,715

OBSERVATIONS at 1 hr. G.M.T. 5th July,

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	1009.5	-2	SW	1	bc	54	85	8	5	-	-	4-6	4-6	4000
	S. Farnborough	226	1009.5	-6	SW'W	2	c	54	85	8	5	-	-	9+	9+	5700
	Boscombe Down	417	1009.0	-4	SSW	1	c	52	76	7	5	-	-	10	10	2500
	Calshot (Sthmtn.)	8	1010.2	-6	W'S	2	c	56	85	7	5	7	-	4-6	10	4000
	Lympne ...	346	1011.0	+2	WW	2	bc	51	75	7	8	-	-	4-6	4-6	2500
	Manston ...	154	1009.7	+2	W'S	3	b	50	83	7	4	-	-	2-3	2-3	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1009.2	+6	W'N	3	z_0	54	75	6	-	-	-	0	0	-
	Gorleston ...	5	1008.1	+6	W'S	2	bc	51	85	7	5	-	-	2-3	2-3	2500
	Mildenhall ...	19	1008.6	+2	SW'S	2	bc	48	85	7	5	-	-	2-3	2-3	4000
	Cranwell ...	240	1008.1	-2	WSW	3	bc	48	85	7	5	-	-	Tr	Tr	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1009.1	-6	W'S	2	c	49	92	7	5	-	-	9	9	5700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007.5	-20	SW	3	c	55	97	8	8	6	-	4-6	9	2500
	Bristol ...	209	1009.3	-10	-	0	ir_0	53	97	7	5	2	-	7-8	10	1500
	Portland Bill ...	32	1009.8	-6	W	3	c	56	92	8	5	-	-	10	10	4000
	Plymouth ...	82	1008.8	-22	NE	1	id_0	55	97	6	-	2	-	10	10	450
	The Lizard ...	240	1009.4	-10	W	4	bc	57	97	8	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	1010.2	-2	NW'W	5	bc	58	97	8	8	7	-	4-6	7-8	1500
	Guernsey ...	175														
6	Pembroke ...	142	1008.0	-8	SE'S	1	df	55	97	1	-	-	-	10	10	<150
7	Holyhead ...	26	1006.6	-10	SW'W	3	c	55	85	8	5	-	-	10	10	1500
	Chester (Sealand)	16	1007.7	-6	S	1	c/r	53	85	6	5	3	-	7-8	9+	1500
8	Manchester ...	70	1007.4	-6	SSW	2	c	52	75	7	8	-	-	9+	9+	2500
10	Spurn Head ...	29	1006.7	0	SW'W	4	bc	52	85	6	5	-	-	4-6	4-6	800
	Catterick ...	175	1006.4	0	-	0	bc	47	85	7	4	6	1	2-3	4-6	4000
	Tynemouth ...	108	1005.2	0	W	2	bc	51	85	6	2	4	-	4-6	4-6	2500
11	St. Abbs Head	280	1004.5	-6	-	0	c	50	85	8	8	6	-	7-8	9+	1500
	Leuchars ...	36	1003.9	-4	W	1	c/pr	51	97	7	8	7	-	7-8	9	2500
12	Renfrew (Abbots I.)	19	1005.1	-2	SW'W	2	c	49	85	6	5	7	6	1	9+	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1006.5	-2	NW'N	1	ir_0	51	92	8	8	7	-	4-6	10	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005.4	0	SW	2	c/pr	48	92	7	8	7	-	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1003.6	-4	W	2	bc	45	85	7	5	4	1	2-3	4-6	1500
16	Lerwick ...	156	999.9	-2	NW	5	rr	46	97	6	6	2	-	4-6	10	800
17	Blacksod Point	18	1005.7	-8	-	0	c	53	97	7	5	-	-	10	10	<150
18	Malin Head ...	84	1005.9	-6	S'W	1	c	50	92	7	9	6	-	7-8	9	4000
	Aldergrove ...	268	1005.9	-8	-	0	c/r	51	92	7	5	2	-	4-6	10	2500
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1010.2	+2	W'N	4	c	57	75	8	5	-	-	9	9	2500
	Roches Point	22	1007.8	-2	WNW	4	bc	56	92	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 5th July,

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)	1008.5	-6	S	1	c	60	75	7	5	-	-	9+	9+	2500	0	*
	Croydon ...	1008.4	-6	S'W	3	c	58	85	8	5	3	-	7-8	9	4000	1	*
	S. Farnborough	1008.0	-8	SE'S	3	c	58	85	8	7	3	-	7-8	7-8	2500	0	*
	Boscombe Down	1007.6	-12	E	2	d_0d_0	54	97	5	5	-	-	10	10	220	1	*
	Calshot (Sthmtn.)	1007.8	-10	SE	2	c	59	92	8	5	-	-	9+	9+	800	0	1
	Lympne ...	1010.9	+2	SSW	3	c	56	85	7	8	-	-	9	9	800	0	8
	Manston ...	1009.3	-2	SSW	2	c/r	58	75	7	2	3	2	2-3	9	2500	0	*
2	Shoeburyness ...	1009.4	0	SSW	3	bc	58	75	7	5	4	-	4-6	7-8	2500	0	*
	Felixstowe ...	1009.0	-2	SW	1	bc	57	75	7	-	3	-	0	4-6	-	0	1
	Gorleston ...	1008.7	+2	SW'W	2	bc	52	86	7	-	3	-	0	4-6	-	1	2
	Mildenhall ...	1008.1	-2	SSW	2	c	56	85	7	5	3	-	2-3	7-8	5700	0	*
	Cranwell ...	1007.6	-4	SW	2	c	55	75	7	5	3	-	7-8	9+	2500	0	*
3	Birmingham ...	1007.3	-2	SSW	1	c	52	85	6	5	-	-	9	9	1500	0	*
	Upper Heyford	1007.8	-6	S	1	c	56	85	7	5	4	-	7-8	7-8	5700	1	*
4	Ross-on-Wye	1007.5	-6	SW'S	2	c	56	85	7	5	-	-	9+	9+	1500	0	*
5	Hartland Point	1007.2	+6	NW	3	c	58	92	8	8	7	-	4-6	9	2500	1	3
	Bristol ...	1007.8	-6	S	2	dr	56	97	6	6	2	-	7-8	10	450	1	*
	Portland Bill ...	1008.4	-10	W	4	c	58	92	8	5	-	-	10	10	4000	1	3
	Plymouth ...	1008.4	0	WNW	3	c	59	85	6	8	-	-	9+	9+	1500	1	2
	The Lizard ...	1010.1	+6	W	4	c	57	92	8	8	2	-	7-8	9+	2500	1	3
	Scilly (St. Mary's)	1010.0	+4	WNW	4	c	58	85	8	8	7	4	4-6	9+	1500	1	3
	Guernsey ...																
6	Pembroke ...	1006.9	0	NW'W	3	c	56	92	7	8	7	-	4-6	9+	800	1	2
7	Holyhead ...	1005.1	-4	ESE	2	rr	55	97	7	6	2	-	9	10	220	1	2
	Chester (Sealand)	1006.4	-4	SSE	2	z_0	58	85	6	5	-	-	9	9+	2500	1	*
8	Manchester ...	1006.6	-2	S'W	2	c/pr	54	85	6	5	2	-	7-8	10	2500	1	*
10	Spurn Head ...	1007.1	0	S'W	2	c	55	85	6	7	-	-	9+	9+	2500	0	1
	Catterick ...	1005.9	-2	SSE	1	ir_0	50	92	7	5	7	-	4-6	10	4000	1	*
	Tynemouth ...	1005.4	+4	SW	3	c	52	85	6	5	-	-	9+	9+	2500	1	1
11	St. Abbs Head	1004.0	-2	WNW	3	c	50	75	8	4	3	9	4-6	7-8	2500	0	2
	Leuchars ...	1003.9	+2	W	3	c	52	85	8	8	-	-	9+	9+	2500	1	*
12	Renfrew (Abbots I.)	1004.8	-2	W	1	bc	54	75	9	5	7	2	1	4-6	2500	0	*
	Eskdalemuir ...	1004.8	0	S	2	c	49	85	8	5	7	-	2-3	9+	1500	1	*
	Point of Ayre ...	1005.5	-4	S'E	1	c	53	92	8	5	-	-	9+	9+	2500	0	1
13A	Tiree	1004.3	-2	-	0	c	54	75	8	5	-	-	9	9	2500	0	1
13B	Stornoway ...	1004.7	-4	SW	2	bc	51	85	9	7	-	-	4-6	4-6	2500	1	1
15	Dalwhinnie ...	*	0	S	1	c	49	85	8	5	-	-	9	9	1500	1	*
	Aberdeen ...	1004.1	+2	NW'N	1	c/r	51	92	8	8	3	-	9	9+	2500	1	1
	Wick ...	1003.3	+2	WNW	3	c/pr	49	92	8	8	7	8	7-8	9	1500	1	1
16	Lerwick ...	1001.3	+10	NW	4	rr	48	92	7	6	2	-	4-6	10	800	1	*
17	Blacksod Point	1004.9	0	W	3	c	56	85	8	5	-	-	10	10	800	0	3
18	Malin Head ...	1004.7	-4	SSW	1	c	52	92	7	9	-	-	9	9	4000	0	3
	Aldergrove ...	1004.9	-4	-	0	c/r	51	92	8	8	7	-	9	10	1500	1	*
19	Birr Castle ...	1006.2	+2	SSW	1	c	54	85	8	5	7	-	7-8	9	2500	1	*
20	Valentia Obsy.	1008.4	-6	W	4	c	57	92	8	8	-	-	9+	9+	2500	1	3
	Roches Point	1007.9	+4	W'N	3	c	56	92	8	5	7	-	4-6	9+	1500	1	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 4th Hrs. (36)
1	London (Kew)	65	55	47	Tr	-	4.3
	Croydon ...	65	53	45	-	0.2	5.0
	S. Farnborough	65	53	45	-	-	8.1
	Boscombe Down	67	53	49	-	-	3.6
	Calshot (Sthmtn.)	61	51	48	-	Tr	4.3
	Lympne ...	65	55	54	-	Tr	8.0
	Manston ...	66	51	46	-	Tr	7.5
2	Shoeburyness ...	64	49	45	Tr	0.1	5.6
	Felixstowe ...	67	50	37	-	-	6.3
	Gorleston ...	68	51	46	0.5	-	8.4
	Mildenhall ...	64	47	44	0.5	5	6.6
	Cranwell ...	68	46	36	0.1	-	5.6
3	Birmingham ...	65	45	38	0.5	Tr	7.9
	Upper Heyford	66	50	43	2	0.1	3.5
4	Ross-on-Wye	64	45	38	Tr	Tr	*
5	Hartland Point	61	52	49	-	-	3.5
	Bristol ...	60	54	52	0.4	2	0.7
	Portland Bill ...	62	52	44	-	1	3.0
	Plymouth ...	62	55	*	1	-	*
	The Lizard ...	61	54	53	0.6	2	0.5
	Scilly (St. Mary's)	61	54	*	Tr	2	1.6
	Guernsey ...	63	56	*	0.2	0.6	1.0
6	Pembroke ...	58	54	*	-	4	0.3
7	Holyhead ...	60	54	53	-	1	4.4
	Chester (Sealand)	61	52	47	Tr	0.3	9.2
8	Manchester ...	61	49	43	1	Tr	5.7
10	Spurn Head ...	66	50	*	1	-	7.2
	Catterick ...	65	45	37	1	0.6	8.4
	Tynemouth ...	58	49	46	4	0.4	*
11	St. Abbs Head	56	48	*	-	0.6	*
	Leuchars ...	59	50	49	3	0.3	3.7
12	Renfrew (Abbots I.)	65	48	46	Tr	-	9.6
	Eskdalemuir ...	59	41	36	3	-	3.0
	Point of Ayre ...	64	50	*	-	0.3	9.6
13A	Tiree	59	50	*	-	-	7.0
13B	Stornoway ...	56	44	*	3	4	4.1
15	Dalwhinnie ...	57	43	41	2	2	3.7
	Aberdeen ...	56	47	41	3	1	2.3
	Wick ...	56	42	*	0.1	0.1	*
16	Lerwick ...	52	46	*	2	11	4.4
17	Blacksod Point	58	52	*	-	2	*
18	Malin Head ...	*	*	*	Tr	2	7.4
	Aldergrove ...	63	48	48	1	1	6.6
19	Birr Castle ...	59	53	52	0.2	1	0.0
20	Valentia Obsy.	61	55	51	0.3	0.2	0.2
	Roches Point	62	55	*	0.3	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.	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	cyp°cy	cy	cbcy c	65	55	47	Tr	-	4.3	*	*	8
Croydon ...	217	bccy	cy	cybc i_0	65	53	45	-	0.2	5.0	*	*	8
Greenwich (Royal Observatory) ...	149	cy	cy	cbc	66	50	38	-	-	4.5	47	66	7
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	66	54	47	—			57	77	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	64	54	49	-	-		58	71	*
Camden Square ...	110	bc	bc	*	66	54	47	-	-	*	*	68	*
Kensington ...	80	bc	bc	*	66	54	47	-	-		47	69	*
Hampstead Observatory ...	450	bcp	bcp	bc	66	51	45	Tr	-		*	83	*

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	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 ...														

‡ 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 6th July 1940.

No. 28,716

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

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)	1006·6	-10	WNW	2	c	68	55	8	2	3	2	9	9	2500
	Croydon	1006·8	-10	S	1	c	72	55	8	2	3	4	7-8	9	4000
	S. Farnborough	1006·8	-6	SSW	3	c/pr	66	65	8	8	3	-	7-8	9	2500
	Boscombe Down	1006·8	-4	W'S	4	c	68	45	8	8	-	8	4-6	7-8	2500
	Calshot (Soton.)	1007·6	-2	SW	5	c	68	75	8	8	-	2	2-3	7-8	2500
	Lympne	1008·9	-10	SW	4	c/pr	64	85	8	8	-	8	4-6	7-8	1500
	Manston	1008·5	-8	S'E	3	c	65	75	8	2	3	2	4-6	7-8	2500
2	Shoeburyness	1007·7	-12	SSE	2	bc	68	65	8	8	-	4	4-6	4-6	4000
	Felixstowe	1007·8	-6	SSE	3	bc	64	75	8	2	6	4	2-3	4-6	2500
	Gorleston	1008·5	-4	S'W	5	c	62	65	7	2	-	-	7-8	7-8	4000
	Mildenhall	1006·9	-4	SSW	3	c	68	55	9	8	-	-	9	9	4000
	Cranwell	1005·8	-10	S'W	2	c	67	55	8	8	6	-	7-8	9	2500
3	Birmingham	1005·8	-4	SSW	3	c	65	55	8	8	7	-	7-8	7-8	4000
	Upper Heyford	1006·9	-6	SSW	2	pr	69	55	7	7	-	-	9	9+	1500
4	Ross-on-Wye	1006·3	-6	W	3	c	64	75	9	9	-	3	4-6	9	2500
5	Hartland Point	1008·0	-2	W	4	c	61	85	8	7	6	-	4-6	9	2500
	Bristol	1007·1	-2	W	4	bc	68	65	8	2	6	2	4-6	4-6	1500
	Portland Bill	1008·6	+6	WSW	4	c	64	85	8	2	4	-	7-8	9	4000
	Plymouth	1008·9	-4	WSW	4	c	65	65	8	8	3	1	7-8	9+	2500
	The Lizard	1010·3	0	W	3	c	62	85	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1009·8	-4	SW'W	3	c	61	85	8	8	7	-	7-8	10	1500
	Guernsey														
6	Pembroke	1007·4	-2	W	2	c	60	85	8	8	7	2	4-6	7-8	2500
7	Holyhead	1004·9	-2	SW'W	4	c	60	85	9	8	7	2	7-8	9+	1500
	Chester (Sealand)	1005·2	-6	N'W	3	pr	59	85	4	9	-	-	10	10	4000
8	Manchester	1005·7	-6	SW	2	pr	61	75	6	8	7	-	7-8	10	1500
10	Spurn Head	1005·9	-2	SSE	2	c	67	85	6	8	-	-	7-8	7-8	1500
	Catterick	1005·8	0	SSE	2	c	58	75	7	5	-	-	10	10	4000
	Tynemouth	1005·1	-2	SE	3	c	56	75	7	2	-	-	9	9	2500
11	St. Abbs Head	1005·1	+4	NE	2	c	56	65	8	3	4	-	4-6	7-8	2500
	Leuchars	1003·9	-2	SSE	2	pr	59	75	8	3	6	1	4-6	4-6	1500
12	Renfrew (Abbots I.)	1004·6	-2	W	2	c	60	55	9	8	3	-	7-8	9	4000
	Eskdalemuir	1004·3	-2	WSW	2	e	57	55	8	8	-	-	9+	9+	2500
	Point of Ayre	1005·1	-2	S'E	3	bc	62	75	8	8	-	5	2-3	2-3	2500
13A	Tiree	1004·0	0	SE'S	2	bc	60	75	8	7	3	-	4-6	4-6	2500
13B	Stornoway	1004·0	0	SW	1	c	58	45	8	1	-	1	7-8	7-8	2500
15	Dalwhinnie	1004·9	+4	SE	1	c/r	55	75	9	8	7	3	4-6	9	2500
	Aberdeen	1004·9	+6	SE'E	2	pr	54	75	8	9	-	-	7-8	7-8	1500
	Wick	1004·1	+6	S	2	c	53	85	8	7	7	9	4-6	7-8	1500
16	Lerwick	1002·9	+4	WNW	4	c/pr	53	85	8	8	7	-	7-8	9+	1500
17	Blacksod Point	1004·4	0	WSW	3	c	59	75	8	3	-	-	9	9	800
18	Malin Head	1003·3	-6	E	3	c/pr	55	85	8	9	-	-	7-8	7-8	5700
	Aldergrove	1003·5	-12	E'N	3	c/pr	61	75	7	8	3	-	9	9+	1500
19	Birr Castle	1005·3	-4	WSW	1	c/pr	62	65	8	8	1	-	7-8	9+	1500
20	Valentia Obsy. †	1007·5	-2	W'N	3	c	59	85	8	8	-	-	10	10	2500
	Roches Point	1006·2	-8	W'S	3	c	60	85	8	8	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 5th July

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)	1006·1	-2	W	3	c	70	45	8	8	5	2	7-8	9+	1500	0	*
Croydon	1006·6	-2	SW	4	c	68	65	8	2	4	3	4-6	7-8	4000	0	*
S. Farnborough	1006·7	+2	W'S	4	c	67	55	9	8	7	6	4-6	9+	1500	0	*
Boscombe Down	1007·2	+4	SW'W	3	c	64	55	8	8	7	-	7-8	9	4000	0	*
Calshot (Soton.)	1007·8	+2	WSW	4	c	63	75	7	8	7	8	2-3	9	4000	0	3
Lympne	1008·5	-2	SSW	4	bc	64	65	9	-	3	8	0	4-6	-	0	§3
Manston	1006·0	0	SW	4	bc	66	65	7	8	4	-	4-6	4-6	4000	0	*
Shoeburyness	1006·7	-6	SSW	3	pr	66	75	8	8	4	9	4-6	4-6	2500	1	*
Felixstowe	1006·3	-10	S	3	c	65	85	8	3	7	3	4-6	7-8	4000	0	2
Gorleston	1006·8	-8	S'E	4	c	61	85	7	5	-	-	9	9	2500	1	3
Mildenhall	1005·5	-4	SE'S	2	c/tlr	61	85	8	9	2	3	7-8	9	800	1	*
Cranwell	1005·4	+2	NNW	1	c/pr	59	92	7	5	7	-	7-8	9+	4000	1	*
Birmingham	1005·9	-2	WSW	3	c	63	55	8	8	7	-	4-6	7-8	4000	0	*
Upper Heyford	1006·3	+2	WSW	4	c	65	45	8	8	7	2	2-3	7-8	2500	1	*
Ross-on-Wye	1006·7	0	WSW	3	c	62	65	8	8	6	3	4-6	7-8	2500	0	*
Hartland Point	1007·0	-6	W	4	c	59	85	8	8	2	-	7-8	9+	2500	0	3
Bristol	1007·9	0	W	3	c	63	65	8	1	9	-	2-3	9	4000	0	*
Portland Bill	1008·6	-2	WSW	4	c	59	85	8	5	7	-	7-8	10	4000	1	3
Plymouth	1008·6	-6	SW	4	c	60	92	8	5	7	-	7-8	10	4000	1	3
The Lizard	1008·8	-10	SW	4	c	59	92	8	8	2	-	9	10	1500	0	3
Scilly (St. Mary's)	1008·2	-10	W'N	3	c/jp	59	85	8	8	7	-	7-8	9+	1500	0	2
Guernsey																
Pembroke	1006·4	-6	SW'W	3	pr	57	85	7	8	6	-	7-8	9+	1500	1	2
Holyhead	1004·5	-4	SSW	4	c	58	85	9	8	7	2	4-6	9+	2500	0	2
Chester (Sealand)	1004·9	-4	WSW	2	c	63	65	8	8	7	-	7-8	9+	2500	1	*
Manchester	1005·2	-2	NW'W	2	c	61	85	7	9	3	-	4-6	9	2500	1	*
Spurn Head	1005·8	-4	-	0	c	57	75	6	9	-	-	10	10	800	1	1
Catterick	1004·8	-4	SE'S	3	PR	59	85	7	9	7	-	7-8	9+	1500	1	
Tynemouth	1004·9	-2	SE	3	c	56	85	6	5	-	-	9	9	4000	1	1
St. Abbs Head	1004·7	-6	SE	3	c	55	75	9	5	3	-	4-6	9	2500	0	1
Leuchars	1004·1	+2	ESE	3	c	58	75	8	5	7	-	4-6	9+	2500	1	*
Renfrew (Abbots I.)	1003·7	-6	WSW	2	c	62	55	9	8	3	6	2-3	9+	2500	0	*
Eskdalemuir	1003·7	-6	—	0	c	59	65	9	8	-	2	4-6	7-8	2500	1	*
Point of Ayre	1004·2	-4	S'E	3	c	59	85	8	2	4	6	2-3	7-8	1500	0	2
Tiree	1003·2	-2	SE	1	c	56	85	9	5	3	-	4-6	7-8	4000	1	0
Stornoway	1006·0	-2	W'N	1	c	55	65	9	5	7	3	4-6	7-8	2500	1	0
Dalwhinnie	1004·2	0	N	2	c	55	65	8	2	-	1	7-8	9	2500	1	*
Aberdeen	1005·4	+2	ESE	2	bc	56	75	8	8	-	3	4-6	4-6	1500	0	1
Wick	1004·9	+4	S	2	c/pr	52	85	9	8	7	9	4-6	9	1500	1	1
Lerwick	1004·7	+10	S'W	4	c	53	75	8	8	7	-	4-6	7-8	1500	1	*
Blacksod Point	1003·7	-6	SW	2	bc	57	75	8	3	-	9	2-3	4-6	1500	0	2
Malin Head	1003·2	+2	W	2	c/pr	57	85	8	9	-	8	4-6	7-8	5700	1	1
Aldergrove	1003·4	-4	S	1	pr	57	85	7	9	-	-	10	10	1500	1	*
Birr Castle	1004·5	-4	WSW	2	c	62	65	8	5	3	3	4-6	9	2500	0	*
Valentia Obsy. †	1006·6	-6	W	3	bcjp	59	75	8	8	6	-	4-6	4-6	2500	0	2
Roches Point	1005·5	-2	W	1	c/pr	59	85	8	8	4	-	4-6	7-8	1500	1	1

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)	ccy	cprocy	cyo	cirodod o
Croydon	crpro	cyprobc	bccmoro	cirocmo
S. Farnborough	cvpro	cy	cyroc	crodoc
Boscombe Down	cdopro	c	c	c
Calshot (Soton.)	cPRmoc	cbcc	ecrormo	crorom o
Lympne	cmrororpro	c⊕cbc	abc	ciro
Manston	cproido	c	cbcc	ciroc
Shoeburyness	prcbc	bcpro	bcpoc	ciroc
Felixstowe	bcbcvy	bcvcpro,t	TLRq,ccm	cmoc
Gorleston	bccq	cproqc	cproilc	cbdb
Mildenhall	cwbcycy	cytlrc	cjpczo	czoirobc
Cranwell	cy	cy,tlrq,c	ccirom o	cirom obc
Birmingham	c	cpr	cpr	cbcc
Upper Heyford	cproc	cprc	ccprc	bccmo
Ross-on-Wye	cpocdbcc	cvcy	codoc	cbcc
Hartland Point	c	cpo	crrR	cp
Bristol	cdorobc	bcyc	cdgrbc	bcc
Portland Bill	c	c	cc	cc
Plymouth	c	c	cproc	c
The Lizard	c	c	cprc	c
Scilly (St. Mary's)	cpoc.	cpoc	c	c
Guernsey				
Pembroke	c	cpro	cbcc	proc
Holyhead	rrromoc⊕	c ⊕	cproc	wc
Chester (Sealand)	idoPRprm	cprc ⊕	czobc	bccmoido
Manchester	cmirocpro	irotpR	ccmo	cmobc mow
Spurn Head	c.	ctlr	co	bc
Catterick	ciroc	ccpR	cpRiroc	cfogbc
Tynemouth	c	c	corrtl	pbcm
St. Abbs Head	bc	c	cbcmo	bmopr
Leuchars	cprobcpro	bcprobcc	cbc	cirocmobc
Renfrew (Abbots I.)	bcc	cy	cycmo	cmoiro
Eskdalemuir	c		cybc	cpr
Point of Ayre	cbc	c	ciro	c
Tiree	cbc	bcb	cid	cRc
Stornoway	c	cpro	c	bcc
Dalwhinnie	bccroro	c		cir
Aberdeen	cpro	cprbc	bc	bcwbc
Wick	c	cproc	cbc	bcc
Lerwick	ciropro	c	bcc	c
Blacksod Point	c	bc	c	bc
Malin Head	c	cirocprc	cprcprc	c
Aldergrove	ccpro	PRprc	procpro	cproc
Birr Castle	cpro	c	c	c
Valentia Obsy. †	c	cbc	bccprobccbc	bccprobc
Roches Point	c	cprc	bc	cb

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.*

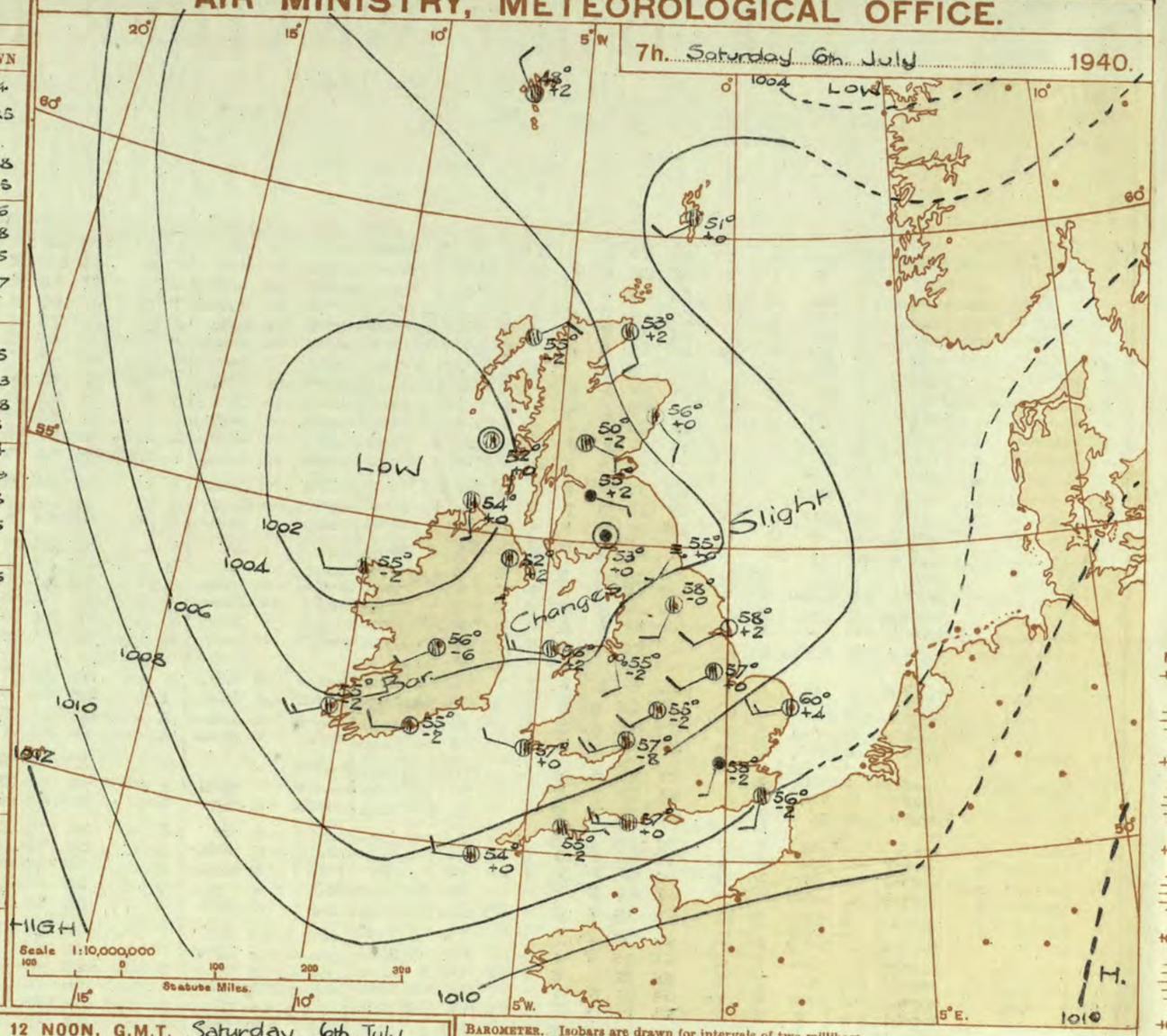
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 6th July 1940.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 5th July			18h. G.M.T.			01h. G.M.T. 6th July			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	02955	30216	80	02846	10226	50	01961	20101	87	01944	12314
115				74	01961	64314	56	01953	08415	55	01953	08425
203												
206	84	01964	08115	84	01963	08214				57	81865	04188
210	84	01953	30214	8-	01953	06414	8-	25956	07286	80	02854	12228
220	52	02853	22316	74	01953	15307				53	02844	16216
230	80	01963	10313	80	02965	00085				52	64644	04168
245	96	10734	13364	86	01754	10385	55	01563	04215	75	02762	04215
260	8-	02767	24117	13	02862	00017				73	02764	00017
277	87	01854	14324	57	02965	14327	62	61635	14268			
279												
285	8-	02847	20327	8-	02847	24227				8-	02735	24485
288	87	22854	14367	87	25746	00088				54	05663	20323
273	37	02855	24326							33	10654	15288
301	--	25854	24285	--	02855	20217				--	01843	18315
321	86	02755	20227	87	05663	06207	5-	62568	24168	07	05690	18214
299	80	05546	00016	62	64645	00068	5-	05644	20214	--	47009	00048
292	51	05655	00068	87	25656	00088	51	08445	00068	40	05671	20165
310	--	01635	20315	--	01634	20214				--	01636	24316
316	84	01754	20224	23	01763	22185	87	08456	20288	23	05561	20215
333	87	02844	22425	84	02856	22427				84	02843	00026
334	50	22854	22427	--	02864	24417				--	02743	24116
340	8-	61838	20283				57	02854	18227	53	01964	16115
136				87	81855	22186	82	25644	16288	14	01742	20188
336	--	02855	16416	--	03855	24428						
350	87	02864	16385	83	02864	24227				53	02854	18327
368	26	02855	24427	86	02866	23427	5-	61748	23468	84	02844	22357
379	80	25754	24384	86	01853	22415	5-	25646	20286	5-	41648	22348
390	8-	02766	18226	25	02863	23415	57	61755	24228	53	05645	12367
382	83	25856	20388	26	02862	22425				83	02845	00027
438	5-	02747	24517							5-	03758	22418
430										57	61646	20268
409	87	02844	24328	87	10844	22488	53	02743	24386	87	02843	16227

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 6th July
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	Light or moderate southwesterly winds. Cloudy with local showers or thunderstorms. Average temperature.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Winds southerly to variable, light. Cloudy with rain at times and local thunder. Average temperature.
13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland	Moderate southeast winds becoming variable. Cloudy, rain later, local thunder. Average temperature.
16 Orkneys and Shetlands	Light southwest wind becoming northwest moderate, later. Cloudy with local showers or thunderstorms. Average temperature.
17 N. W. Ireland	
18 N. E. Ireland 19 S. E. Ireland	Light or moderate southwest to west winds. Cloudy with local showers or thunderstorms. Average temperature.
20 S. W. Ireland	As No. 17.

GENERAL INFERENCE.

A depression centred northwest of Ireland is almost stationary. Weather will be showery with local thunderstorms in England, Wales and Ireland. In Scotland a belt of more general rain will move slowly northwards, giving thunder locally. Temperatures will be near the average in all districts.

FURTHER OUTLOOK.

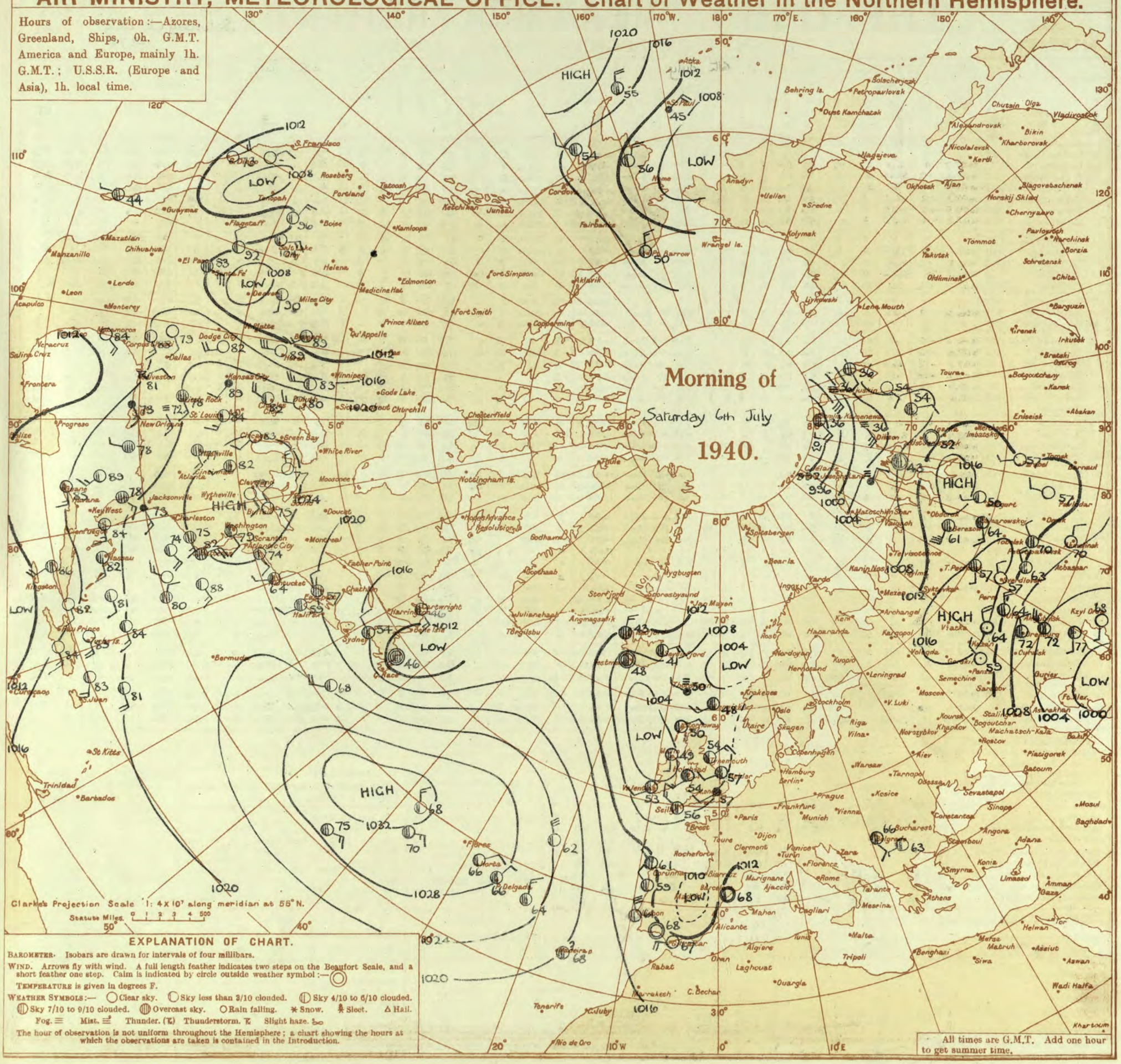
Continuing showery.

Forecasts issued at 1000 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3900. No. 6045. D. 3705. G. 548. (5403) 6/40

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 6th July 1940.

No. 28,716

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

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	1007.7	0	SW	2	ir0	57	85	7	5	-	-	9+	9+	4000
	S. Farnborough	226	1007.4	-2	SSW	2	c	56	85	7	5	7	-	4-6	10	5700
	Boscombe Down	417	1007.4	-4	S	2	c	55	92	7	5	7	-	9	10	2500
	Calshot (Sthmtn.)	8	1007.7	-2	NW	3	r5r0	59	92	6	5	2	-	7-8	10	2500
	Lympne ...	346	1009.5	+2	SW'S	1	c	55	97	7	5	-	-	9+	9+	5700
	Manston ...	154	1007.9	-4	SW'W	3	c	57	85	7	5	7	-	7-8	7-8	5700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1007.1	+4	SW'W	3	z0	61	85	6	5	7	-	4-6	10	4000
	Gorleston ...	5	1006.8	-2	SW'S	2	c	58	85	6	5	-	-	9+	9+	2500
	Mildenhall ...	19	1006.1	0	SW'W	2	z0	56	75	6	5	1	-	7-8	9	4000
	Cranwell ...	240	1005.7	+2	SW	2	ir0	56	85	6	5	-	-	9+	9+	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1006.6	-2	SW'S	1	c	55	92	7	5	7	-	7-8	9	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1006.0	-6	W	4	c	56	85	8	8	-	-	7-8	7-8	2500
	Bristol ...	209	1007.0	-6	S	2	bc	54	92	7	8	-	-	4-6	4-6	2500
	Portland Bill ...	32	1007.4	-12	WSW	4	c	58	85	8	5	-	-	10	10	4000
	Plymouth ...	82	1007.2	-10	W	3	c	57	92	7	5	-	-	9	9	2500
	The Lizard ...	240	1007.7	-10	-	0	c	54	97	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1007.3	-12	W'N	3	c	56	85	8	8	7	-	4-6	9	1500
	Guernsey ...	175														
6	Pembroke ...	142	1005.1	-2	W	3	c	57	85	8	8	-	-	7-8	7-8	800
7	Holyhead ...	26	1003.7	-4	SW'W	3	c	54	92	8	8	-	-	7-8	7-8	2500
	Chester (Sealand)	16	1005.2	+2	SE'S	2	c	55	75	7	5	7	-	4-6	4-6	2500
8	Manchester ...	70	1005.2	-2	S	2	z0	54	85	6	5	-	-	7-8	7-8	4000
10	Spurn Head ...	29	1005.2	0	SW'S	9	0	57	92	5	5	-	-	10	10	1500
	Catterick ...	175	1004.9	-2	S	1	c	52	92	7	5	2	-	7-8	9+	2500
	Tynemouth ...	108	1004.8	-8	NE	3	c/r	54	97	6	-	2	-	10	10	1500
11	St. Abbs Head	280	1004.7	-4	SE	2	bc	51	92	6	5	4	-	4-6	4-6	2500
	Leuchars ...	36	1004.4	-2	E	2	bc	54	97	7	5	7	6	1	7-8	4000
12	Renfrew (Abbots I.)	19	1003.7	-4	-	0	z0	54	85	6	5	-	-	9+	9+	7200
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1003.7	-2	S'W	2	ir0	54	97	8	8	2	-	7-8	10	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1004.9	-6	NE	1	c	50	92	7	1	5	-	Tr	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1005.1	+2	SE	3	bc	52	92	8	5	4	1	1	2-3	1500
16	Lerwick ...	156	1007.0	+6	SW	3	c	48	92	8	5	3	-	4-6	7-8	1500
17	Blacksod Point	18	1002.7	-8	S	2	c	53	92	7	5	-	-	9+	9+	<150
18	Malin Head ...	84	1002.8	0	S	1	bc	49	92	8	2	7	-	2-3	4-6	4000
	Aldergrove ...	268	1002.9	-2	S	1	c/pr	53	92	7	8	-	-	9+	9+	4000
19	Birr Castle ...	173	1004.7	-4	WSW	1	c	51	92	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	30	1005.2	-10	S'W	2	bc	53	85	8	8	-	-	4-6	4-6	2500
	Roches Point	22	1005.9	0	SW'W	2	bcjp	53	85	8	5	-	-	2-3	2-3	2500

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

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)	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 6th Hrs. (36)
1	London (Kew)	1006.8	-4	S	2	d0d0	59	85	7	5	2	-	9	10	1500	1	*	72	58	54	Tr	0.2	7.3
	Croydon ...	1007.1	-2	SSW	1	id	58	92	6	6	7	-	7-8	10	1500	1	*	73	56	53	Tr	0.3	4.7
	S. Farnborough	1006.6	-2	SW	2	id0	57	92	5	6	-	-	10	10	1500	1	*	74	55	52	Tr	0.1	5.1
	Boscombe Down	1006.4	-2	S'W	2	c	57	85	7	8	3	-	9	10	2500	0	*	70	55	53	Tr	-	4.4
	Calshot (Sthmtn.)	1006.8	-6	SW'S	4	z0	59	97	6	-	2	-	10	10	800	1	2	68	57	56	2	1	6.4
	Lympne ...	1009.5	-2	SSW	2	c/r	56	92	7	5	7	-	7-8	10	4000	1	8	66	55	53	1	0.1	5.5
	Manston ...	1007.9	+2	SW'S	3	c	59	85	7	5	7	-	4-6	9	800	0	*	71	56	*	Tr	Tr	5.2
2	Shoeburyness ...	1007.7	0	SW'S	3	c	61	85	8	6	7	-	9	9+	1500	0	*	72	58	53	0.5	0.1	7.2
	Felixstowe ...	1007.1	0	WSW	3	c	61	85	8	8	3	3	7-8	9	2500	1	2	67	57	56	Tr	1	9.0
	Gorleston ...	1007.0	+4	W'S	3	b	60	75	7	-	4	-	0	2-3	-	0	2	62	54	53	0.1	0.6	8.0
	Mildenhall ...	1006.3	0	SW'S	2	bc	59	85	7	7	7	-	4-6	7-8	4000	0	*	74	54	48	2	Tr	7.5
	Cranwell ...	1005.7	0	SW	2	bc	57	85	7	5	7	1	4-6	7-8	4000	1	*	71	52	49	2	Tr	6.1
3	Birmingham ...	1005.3	-2	SW	2	c	55	85	8	5	7	-	7-8	9+	1500	0	*	66	52	47	6	1	4.4
	Upper Heyford	1006.4	0	SSW	2	z0	56	92	6	5	-	-	9+	9+	450	1	*	70	51	45	3	0.1	*
4	Ross-on-Wye	1005.7	-8	WSW	3	c	57	85	7	7	-	8	4-6	7-8	2500	0	*	68	54	48	Tr	Tr	2.8
5	Hartland Point	1005.5	-2	W	4	c	57	85	8	8	4	-	7-8	9	2500	1	3	63	53	52	Tr	9	2.0
	Bristol ...	1006.1	-2	SW'S	2	c	58	85	8	8	7	8	4-6	7-8	2500	1	*	68	52	46	Tr	0.4	6.7
	Portland Bill ...	1007.7	0	W	3	c	57	85	8	5	7	-	7-8	10	4000	1	3	64	56	*	-	-	*
	Plymouth ...	1006.5	-2	E	1	c	55	92	8	5	1	-	7-8	9+	2500	0	1	65	53	50	-	Tr	2.2
	The Lizard ...	1006.9	0	-	0	c	56	92	8	8	6	-	7-8	7-8	2500	0	2	64	53	*	-	Tr	3.4
	Scilly (St. Mary's)	1006.4	0	W	2	c	54	92	8	8	7	3	4-6	7-8	1500	0	1	63	54	*	0.1	-	2.6
	Guernsey ...																						
6	Pembroke ...	1005.2	0	W'N	1	c/pr	57	92	8	8	-	-	9	9	800	1	2	61	55	*	Tr	0.6	3.4
7	Holyhead ...	1003.8	+2	W'N	3	c	56	85	8	8	3	2	2-3	7-8	1500	0	1	62	53	50	2	-	2.5
	Chester (Sealand)	1004.6	-2	SSE	2	z0	55	85	6	5	3	8	4-6	9+	4000	0	*	65	51	47	4	Tr	1.2
8	Manchester ...	1005.0	0	S	2	c	56	85	7	8	7	5	7-8	9+	4000	1	*	63	51	44	4	-	0.7
10	Spurn Head ...	1005.1	+2	SW	2	bc	58	85	6	4	-	4	1	2-3	2500	1	1	70	55	*	7	2	3.6
	Catterick ...	1004.3	0	SSW	2	bc	58	75	7	8	4	5	2-3	4-6	4000	1	*	64	49	43	2	Tr	1.0
	Tynemouth ...	1004.6	0	SW	1	m	55	92	4	7	3	-	2-3	4-6	2500	1	1	59	53	51	-	3	*
11	St. Abbs Head	1004.1	0	SE	2	c/pr	54	97	5	5	6	-	4-6	10	800	1	1	60	50	*	-	0.6	*
	Leuchars ...	1003.7	0	SE	3	bc	57	85	8	8	3	-	4-6	7-8	1500	1	*	64	53	49	Tr	Tr	3.6
12	Renfrew (Abbots I.)	1003.3	+2	ESE	1	ir0	56	85	5	5	2	-	9+	10	2500	1	*	65	53	49	-	0.4	5.0
	Eskdalemuir ...	1003.4	0	-	0	pr	53	85	7	8	7	-	7-8	9	1500	1	*	61	45	42	-	0.4	1.5
	Point of Ayre ...	1003.1	0	W	3	c	58	85	8	1	3	-	Tr	9	4000	0	1	63	49	*	-	0.3	3.2
13A	Tiree ...	1002.1	0	-	0	c/r	52	97	8	8	-	-	7-8	7-8	1500	1	1	60	48	*	-	6	6.8
13B	Stornoway ...	1004.4	-2	ENE	2	c	55	85	8	5	7	-	4-6	9+	4000	1	1	56	49	*	1	-	3.2
15	Dalwhinnie ...	1003.9	-2	SE	3	c	50	85	5	5	-	-	10	10	1500	1	*	61	47	42	0.2	2	5.9
	Aberdeen ...	1005.2	0	SE	2	bc	56	85	8	2	3	3	4-6	4-6	2500	0	1	57	44	41	0.4	-	4.5
	Wick ...	1004.9	+2	SSE	4	c	53	92	8	5	7	-	4-6	9	2500	0	2	54	51	*	Tr	-	*
	Lerwick ...	1007.3	0	SW'W	2	c	51	85	8	5	3	-	4-6	7-8	1500	0	*	54	46	*	1	-	3.7
17	Blacksod Point	1001.6	-2	W'S	2	bc	55	92	8	3	-	-	4-6	4-6	1500	0	2	60	50	*	0.5	4	*
18	Malin Head ...	1001.2	0	S	1	c	54	85	8	9	-	-	7-8	7-8	5700	0	0	57	47	*	4	0.6	1.0
	Aldergrove ...	1002.9	+2	S'W	1	c	52	92	8	5	3	-	9	9+	800	1	*	63	50	48	6	1	1.2
19	Birr Castle ...	1003.7	-6	SW	1	c	56	85	8	5	7	-	7-8	9	2500	0	*	63	50	49	1	-	2.9
20	Valentia Obsy.	1004.1	-2	SW'W	3	jp	55	85	8	8	6	3	4-6	4-6	2500	1	2	61	52	47	-	1	2.7
	Roches Point	1004.5	-2	W	2	bc	55	85	8	5	-	5	2-3	4-6	2500	1	2	63	50	*	0.5	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	ccy	cpr0cy	cycd0d0	72	58	54	Tr	0.2	7.3	*	*	6
Croydon ...	217	cr0p0	cypr0bc	bcmr0	73	56	53	Tr	0.3	4.7	*	*	7
Greenwich (Royal Observatory) ...	149	c	cy	cvdd0c	74	56	52	-	3.3	6.7	48	89	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	73	57	54	0.3		6.3	59	95	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	73	57	55	-	2.0		49	88	*
Camden Square ...	110	bc	bc	*	75	58	54	-	1.5	*	*	93	*
Kensington ...	80	bc	bc	*	74	57	54	-	2.1		42	95	*
Hampstead Observatory ...	450	bc	bcor	or	72	55	53	Tr	1.6		*	99	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
<0.1	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 ...														

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30 — Code for State of Sea.

0	Calm.	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

Sunday 7th July 1940.

No. 28717

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

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)...	1005·7	-6	S'W	2	rr	60	85	7	6	2	-	9	10	1500
	Croydon	1006·2	-6	SSW	2	roro	59	92	6	6	2	-	7·8	10	800
	S. Farnborough	1005·6	-10	SSW	3	roro	58	92	7	5	2	-	9	10	1500
	Boscombe Down	1005·0	-8	–	0	c/r	62	65	8	2	3	6	4-6	9	4000
	Calshot (Soton.)	1005.4	-12	SSE	1	do	59	92	7	6	2	-	9	10	800
	Lympne ...	1007·6	-10	S'W	1	c/pr	59	85	8	5	-	-	10	10	5700
	Manston ...	1006·2	-10	W	2	c/r	60	85	7	5	7	-	4·6	10	4000
2	Shoeburyness ...	1006·9	-8	S	3	rr	59	92	6	6	2	-	7·8	10	1500
	Felixstowe ...	1006·4	-2	SSW	4	rr	60	92	6	6	2	-	4-6	10	800
	Gorleston ...	1006·2	-4	SW'S	3	roro	61	92	6	6	-	-	10	10	1500
	Mildenhall ...	1005·2	-6	SSW	2	rr	59	97	6	6	2	-	7·8	10	800
	Cranwell ...	1004·2	-14	S	3	c	65	65	8	8	-	7	7·8	10	1500
3	Birmingham	1004·2	-6	SSW	2	c	62	55	8	7	7	-	4-6	9	4000
	Upper Heyford	1005·5	-2	S'W	2	roro	57	92	7	-	2	-	10	10	2500
4	Ross-on-Wye ...	1004·0	-12	SSW	3	bc	65	65	8	2	-	-	4·6	4-6	4000
5	Hartland Point	1006·0	-6	W	3	bc	61	85	9	2	4	-	2-3	4-6	4000
	Bristol	1004·7	-12	SW	2	c	66	65	8	8	4	-	4-6	7·8	2500
	Portland Bill ...	1005·2	-12	WSW	2	c	58	85	8	1	4	-	4-6	7·8	4000
	Plymouth ...	1005·4	-2	SW	3	bc	64	65	8	8	3	1	4-6	4-6	2500
	The Lizard ...	1006·2	-4	W	3	bc	64	75	8	8	-	-	4·6	4-6	4000
	Scilly (St. Mary's)	1006·3	0	W'S	3	bc	65	65	9	8	4	3	2-3	2-3	2500
	Guernsey ...														
6	Pembroke ...	1005·2	-4	W'S	3	bc	61	75	9	2	7	1	2·3	4-6	2500
7	Holyhead ...	1003·1	-8	SSW	4	bc	61	75	9	8	-	6	1	4-6	4000
	Chester (Sealand)	1003·7	-6	N	1	c/pr	60	75	7	3	3	-	7·8	9+	1500
8	Manchester ...	1004·0	-6	WNW	3	c/pr	59	75	7	8	7	-	7·8	10	2500
10	Spurn Head ...	1003·8	-6	SE'E	2	c	63	75	6	8	-	-	10	10	1500
	Catterick ...	1002·7	-10	SW	2	c	63	55	7	8	-	8	7·8	10	1500
	Tynemouth ...	1004·1	-4	SE	2	c/pr	57	92	6	8	-	-	7·8	7·8	2500
11	St. Abbs Head														
	Leuchars ...	1002·9	-8	ESE	3	c	59	85	7	5	7	-	4·6	9+	800
12	Renfrew (Abbots I.)	1002·4	-6	E	2	c/pr	61	75	7	8	7	-	7·8	9+	1500
	Eskdalemuir ...	1001·6	-8	SW'W	3	c	60	65	8	5	-	1	4-6	7·8	2500
	Point of Ayre ...	1002·9	-4	SE	2	c	63	75	8	2	4	1	2-3	7·8	2500
13A	Tiree	1001·4	-4	SE	1	bc	61	65	8	1	3	-	2-3	4-6	2500
13B	Stornoway ...	1003·6	-4	–	0	rr	51	97	6	5	2	-	9	10	1500
15	Dalwhinnie ...	*	0	SE	3	c	50	85	5	5	-	-	9+	9+	1500
	Aberdeen ...	1004·5	-4	SE	3	bc	60	85	7	1	3	1	2-3	2-3	2500
	Wick	1004·7	-2	SE	4	bc	55	92	8	7	8	2	2-3	4-6	2500
16	Lerwick... ...	1007·4	0	S	3	c	54	85	8	8	-	9	4-6	9	1500
17	Blacksod Point...	1001·2	-2	WSW	3	bc	57	85	8	-	6	-	0	4-6	–
18	Malin Head ...	1001·2	-6	E	1	PR	54	85	8	6	-	-	7·8	7·8	5700
	Aldergrove ...	1000·0	-14	SW'S	2	c	63	65	9	3	3	-	7·8	9	1500
19	Birr Castle ...	1001·8	-6	SW	2	c/pr	64	65	8	8	7	4	4-6	7·8	1500
20	Valentia Obsy. †	994·2	+2	W'N	4	c	59	75	8	8	-	-	7·8	7·8	1500
	Roches Point ...	1003·2	-4	W'N	3	PR	57	92	7	3	-	3	7·8	9	800

OBSERVATIONS at 18h. G.M.T. 6th July

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. (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)
1	London (Kew)	1003·6	-10	SW	2	c	64	75	8	8	9	-	4·6	9	2500	1	*
	Croydon	1004·3	-18	SSW	1	c/pr	62	85	8	3	7	8	4-6	9+	2500	1	*
	S. Farnborough	1003·5	-10	SSW	2	c	65	65	8	8	3	6	4-6	9	4000	1	*
	Boscombe Down	1003·2	-10	S	3	c	63	65	8	8	3	8	7·8	9	4000	0	*
	Calshot (Soton.)	1004·4	-6	SW	4	bc	61	85	8	2	3	8	2-3	4-6	2500	0	1
	Lympne	1005·7	-12	SE	1	c/r	57	97	7	5	7	-	2-3	10	450	1	§ 2
	Manston	1004·5	-6	SSE	1	roro	58	92	5	6	2	-	7-8	10	450	1	*
2	Shoeburyness	1005·1	-12	S'E	2	c/r	60	85	7	5	7	-	9	10	1500	1	*
	Felixstowe	1004·3	-14	SSE	2	dr	58	97	7	6	7	-	7·8	9+	800	1	2
	Gorleston	1004·9	-8	S	3	roro	59	92	6	6	-	-	10	10	1500	1	2
	Mildenhall	1003·6	-12	–	0	c	60	85	8	8	7	9	7·8	9+	4000	1	*
	Cranwell	1002·8	-10	S	3	bc	64	65	8	1	7	1	2·3	4-6	2500	1	*
3	Birmingham	1002·7	-4	WSW	1	bc	65	55	8	8	6	2	2-3	4-6	4000	0	*
	Upper Heyford	1003·0	-14	SSW	2	c	67	55	8	1	3	9	2-3	7·8	4000	1	*
4	Ross-on-Wye	1002·6	-8	E'N	2	bc	67	55	9	2	-	-	4-6	4-6	4000	0	*
5	Hartland Point	1004·0	-8	W	4	bc	61	75	9	4	-	3	4-6	4-6	2500	0	3
	Bristol	1003·9	-4	W	3	c/pr	63	65	9	8	6	-	4-6	9	4000	0	*
	Portland Bill	1003·9	-10	SW	3	c	58	92	8	5	-	-	10	10	4000	1	3
	Plymouth	1004·8	-2	W'N	4	c	59	75	8	2	-	2	7·8	7·8	2500	0	2
	The Lizard	1005·5	-4	W'S	2	bc	62	75	8	8	-	-	2-3	2-3	2500	0	2
	Scilly (St. Mary's)	1005·5	-8	W'S	3	bc	62	75	8	8	6	-	1	4-6	2500	0	1
	Guernsey																
6	Pembroke	1003·3	-8	W'S	4	bc	61	75	9	2	-	-	4-6	4-6	2500	1	2
7	Holyhead	1001·5	-10	S'W	4	bc	59	75	9	8	3	1	1	2-3	2500	0	2
	Chester (Sealand)	1002·5	-8	SE	1	c	62	75	8	8	7	-	7·8	7·8	2500	1	*
8	Manchester	1002·6	-4	E'N	1	c/pr	60	75	6	5	3	-	4-6	9	4000	1	*
10	Spurn Head	1003·0	+2	SE'E	2	c	60	85	6	5	-	-	7·8	7·8	1500	0	1
	Catterick	1001·8	-4	S'W	1	bc	63	55	8	8	6	-	4-6	4-6	4000	1	*
	Tynemouth	1002·9	-6	NE	3	c	57	85	7	8	-	-	9+	9+	2500	1	1
11	St. Abbs Head	1002·2	0	WNW	2	c	56	65	8	3	6	9	4-6	7·8	1500	1	1
	Leuchars	1001·4	-12	ESE	2	c	59	85	7	2	9	-	2·3	7·8	2500	1	*
12	Renfrew (Abbots I.)	1000·6	-8	W'S	3	c	65	55	9	8	-	4	4-6	7·8	2500	1	*
	Eskdalemuir	1000·6	-4	SW'S	4	bc	61	55	8	8	7	1	1	4-6	4000	0	*
	Point of Ayre	1001·3	-10	SW'W	3	bc	64	55	8	4	4	4	1	4-6	4000	0	2
13A	Tiree	1000·1	-6	NNE	2	bc	58	85	8	7	3	-	2-3	2-3	4000	0	2
13B	Stornoway	1001·6	-8	ENE	2	c	56	85	8	5	4	5	2-3	7·8	4000	1	1
15	Dalwhinnie	1001·8	-8	NNW	1	c	54	85	6	2	-	1	7·8	7·8	1500	1	*
	Aberdeen	1002·7	-14	SE	3	c	57	92	6	9	7	-	7·8	9	1500	1	2
	Wick	1003·1	-10	ESE	4	bc	54	92	8	7	3	4	2·3	4-6	2500	0	2
16	Lerwick	1006·5	-8	S	4	c	54	85	8	5	-	9	4-6	7·8	1500	0	*
17	Blacksod Point	1000·4	-6	SW	1	c	59	75	8	3	6	-	2-3	7·8	1500	0	2
18	Malin Head	999·7	-10	NE	1	c/pr	56	85	8	4	5	2	2·3	7-8	5700	1	1
	Aldergrove	1000·1	-6	S	1	cjp	57	75	8	3	6	1	7·8	9	2500	1	*
19	Birr Castle	1001·0	-4	SW	1	c	64	55	8	8	7	-	4-6	7·8	1500	0	*
20	Valentia Obsy. †	1003·2	-4	W	4	bc	58	75	8	2	6	-	4-6	4-6	2500	0	3
	Roches Point	1002·0	-6	WNW	3	c	59	85	8	3	-	3	4-6	7·8	1500	1	3

PAST 24 HOURS. — WEATHER.

District	Stations	7h.—13h. 6th (37)	13h.—18h. 6th (38)	18h. 6th to 1h. 7th (39)	1h.—7h. 7th (40)
1	London (Kew)	cdmocrorr	crcprc	c	c
	Croydon	crorom	roropro	c	cbc
	S. Farnborough	dororoc	ciro	cbc	bccwbc
	Boscombe Down	cirocroro	c	c,bcm	bw
	Calshot (Soton.)	doRR	idoprc	bccbc	bwbcw
	Lympne	cirpro	crrroro	doro mcmo	cmocbc
	Manston	cirir	prororomo	cirorom o	cirocmo
2	Shoeburyness	rororrc	rirc	c	ccmo
	Felixstowe	ccroro	croroirmo	doroccmo	cmoc
	Gorleston	corroq	ororo	oroc	cbc
	Mildenhall	bccrorr	crrrororoc	ccmo	cmowlpr bc
	Cranwell	c ⊕	orororoorobc	cprocmo	procmo,bzo
3	Birmingham	c	cprobc	CHropr	cb
	Upper Heyford	cmororoMo	crorobcy	cbcprobc	bcb
4	Ross-on-Wye	cbc	cbcc	bcvcpobc	bwbcc
5	Hartland Point	cpbc	bc	bcp	bcpr bc
	Bristol	cbc	bcypro	cprobcb	bcw
	Portland Bill	c	c	cbc	cpr
	Plymouth	cbc	bcjp	bcb	bbcc
	The Lizard	bc	bc	cprbc	bcprc
	Scilly (St. Mary's)	cpobc	bc	bcpoc	croro
	Guernsey				
6	Pembroke	cprob	bcv	·bc	probc
7	Holyhead	cbc ⊕	bc ⊕ b	bwc	cwbcb
	Chester (Sealand)	cmoprPR	ccprPRc	bccw	bccmopr bc
8	Manchester	cq pro	cqPRpro	proffw	cmobcmow
10	Spurn Head	co	c	co	cpo
	Catterick	bcccy	cirocy	cbc	wbcbbc
	Tynemouth	bcmptl	cptlc	cpbc	bc
11	St. Abbs Head		rrc	c	c
	Leuchars	bccroc	cprPRcbc	cbcwo	bc,roromo[illegible]
12	Renfrew (Abbots I.)	cproTLRpr	cczocy	cyciro mo	cmjror
	Eskdalemuir	cpr	cbcy	bc	bcw
	Point of Ayre	cbc	bc	bcbc	c
13A	Tiree	cbc	bc	c	cir
13B	Stornoway	crr	crr	cPR	cbc
15	Dalwhinnie	cir	cir	·	cir
	Aberdeen	bcb	b,ciro	cmoc	ccrlR
	Wick	cbc	bc	cprc	c
16	Lerwick	c	c	cbcc	c
17	Blacksod Point	bcq	bc	c	pro
18	Malin Head	cprocPR	cpropro wc	c	c
	Aldergrove	cbcc	procpr	cjp bcw	bcc
19	Birr Castle	cpr	cy	bcc	c
20	Valentia Obsy. †	bcproc	cbc	PRqpropr	prPRproc
	Roches Point	prtPR	PRc	bcb	cwbc

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.*

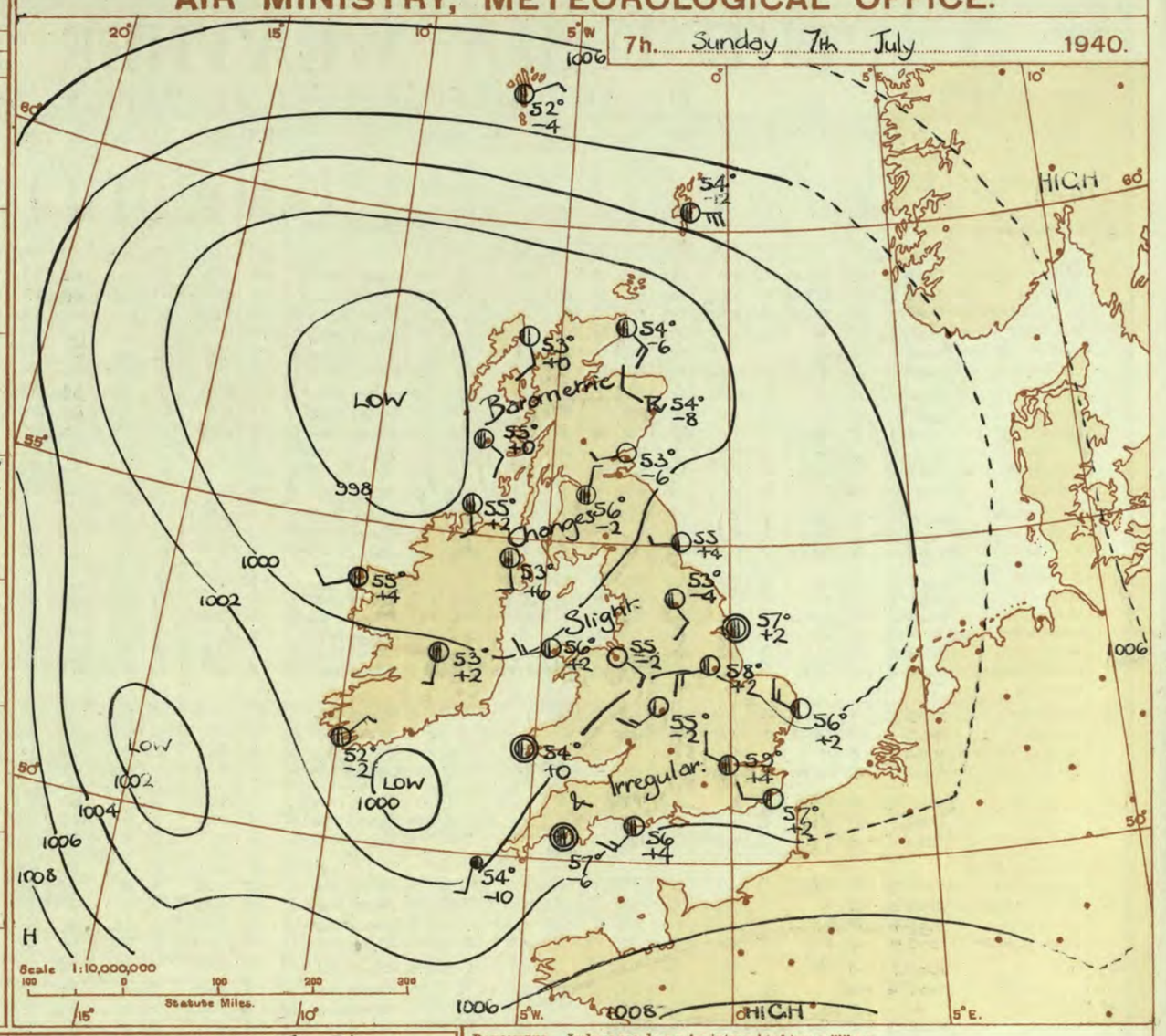
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 7th July 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 6th July				18h. G.M.T.				01h. G.M.T. 7th July				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	17	01954	12414	17	01964	11415		57	02845	08516		52	02736	08568
115	62	81844	08387	52	81844	20187		5-	67209	12489		71	02844	12265
203														
206	87	02855	04127	87	02855	00088		53	02754	00015		03	02609	00024
210	24	61954	08324	86	02855	11426						53	02854	10125
220				74	25063	26184						92	82854	00088
230	86	25845	32285	8-	02045	00087		53	02855	00016		87	81755	00087
245	84	02865	66426	87	02753	10426						93	11853	22234
260	8-	93747	06197	36	02754	00016		40	08463	00013				
277	20	61953	18425	36	01952	17423		5-	02747	12227		27	01843	18124
279														
285	8-	81747	24387	8-	02845	22385								
288	87	02753	16328	87	01854	16105		53	05563	20113				
273	32	66656	16167									43	01653	17103
301	--	02852	24317	--	02853	24214								
321	71	02764	10228	76	02765	10427		04	05690	18113		03	00590	20263
299				57	01744	14484		5-	01755	16215		87	22644	22164
292	82	05654	18128	86	02966	28127		5-	47365	00085		34	05652	00042
310	--	02636	20326											
316	81	02753	20328	83	02755	24327		52	61655	24168		06	01790	22211
333	24	01953	20324	20	00952	22312						84	01853	20213
334	--	25854	18387	--	01862	22303								
340	80	10945	20116	87	10945	16285		50	01952	16102		80	01863	14203
136	82	81645	15388	87	02755	00087		03	41590	00046		09	05690	22298
336	--	25853	20425											
350														
368	27	02853	22326	86	01943	24415		80	25853	22283		27	01853	23313
379	22	05643	16228	23	02754	20315		53	05653	20214		63	01713	22214
390				87	05654	24287		57	05553	20227		53	01761	24215
382				46	02854	15225		54	01863	25213		24	01852	20204
438	3-	62538	18268									30	82537	24387
430	62	61745	16268					03	05690	24113		20	02755	22117
409	73	02054	20324	84	00952	23313		80	01753	18213		83	01853	16215

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 7th July
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate southwesterly winds. Occassional showers or thunderstorms; some bright intervals. Average temperature.
5 S.W. England 6 South Wales ...	Light to moderate south to southwest wind. Cloudy with occassional rain. Thundery showers and bright intervals later. Average temperature.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	As 0-4
10 N.E. England 11 S.E. Scotland	Light variable, mainly southeast winds. Occassional showers or thunderstorms. Patches of coastal fog. Average temperature.
12 S.W. Scotland & Isle of Man. 13 {A. W. Scotld. B.N.W.Scotland.} 14 Mid Scotland	Light variable, mainly southeast winds. Occassional rain or thunderstorms. Average temperature.
15 N. E. Scotland	As 10-11
16 Orkneys and Shetlands	Moderate southeast or east winds. Cloudy with occassional rain or thunder storms. Average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate southwest to west wind. Occassional showers or thunderstorms. Average temperature.

GENERAL INFERENCE.

A depression still remains centred northwest of Ireland, and small secondaries continue to move northeastwards across the British Isles..

Weather will be showery with thunder in many places but with some bright intervals.

Temperature will be near the seasonal average in all districts.

FURTHER OUTLOOK.

Continuing showery with thunder in many districts.

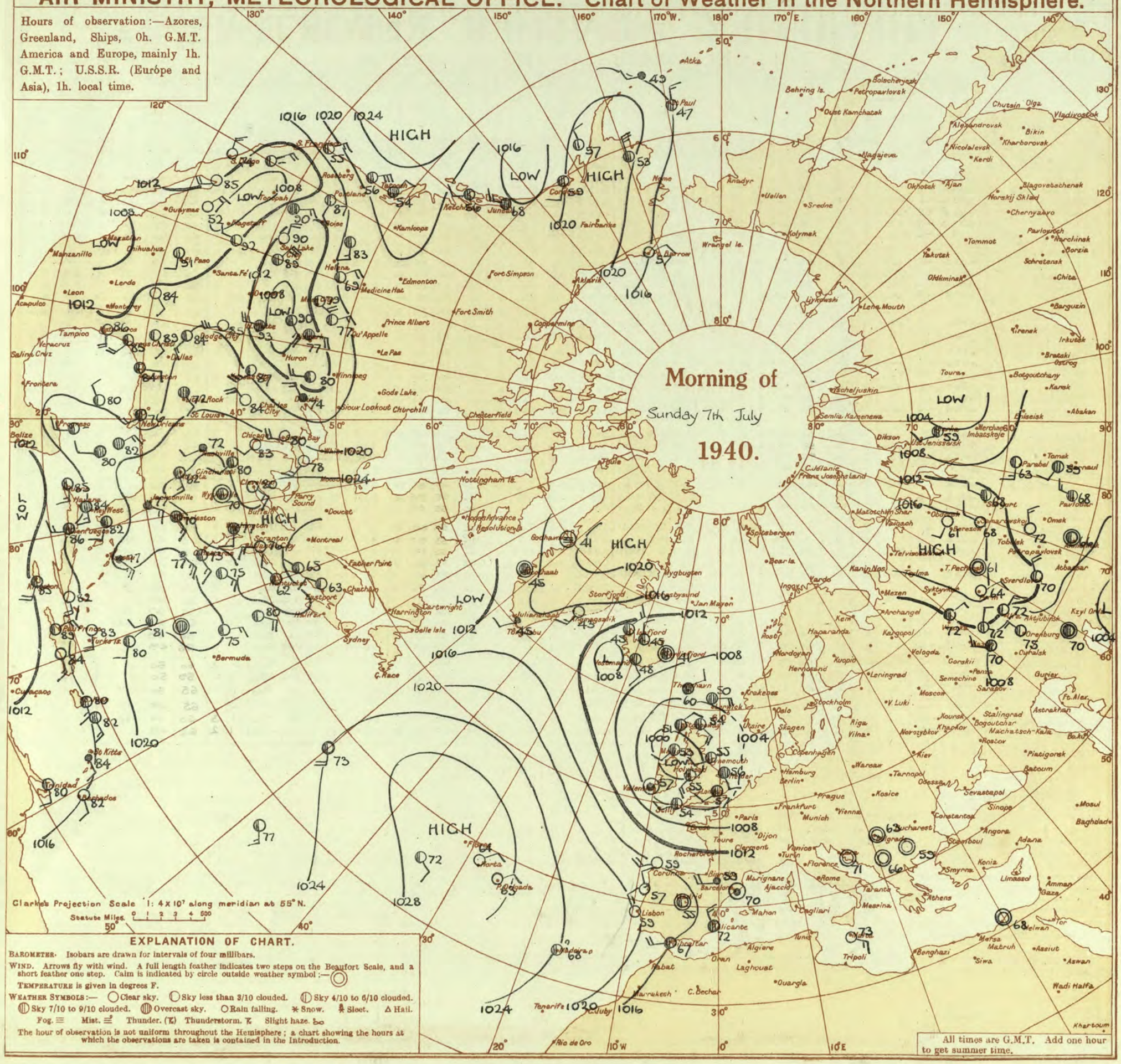
Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3902. m. 3049. d. 3705. G. 348 (5803.8/40)

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

Sunday 7th July 1940.

No. 28717.

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

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	1003.0	-8	W'S	2	c	57	85	7	5	3	-	2-3	9+	2500
	S. Farnborough	226	1003.1	-6	W	3	bc	56	75	7	5	-	-	7-8	7-8	4000
	Boscombe Down	417	1003.6	-2	W'N	2	bc	50	92	8	5	3	-	2-3	2-3	4000
	Calshot (Sthmtn.)	8	1003.8	-2	WSW	2	b	54	92	7	-	3	-	0	2-3	-
	Lympne ...	346	1004.3	-10	W'S	2	z₀	55	97	6	5	-	-	10	10	800
	Manston ...	154	1002.3	-12	W	2	ir₀	56	97	5	5	-	-	9+	9+	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1002.3	-12	W'S	2	z₀	59	92	6	5	1	-	4-6	10	2500
	Gorleston ...	5	1002.7	-6	SW'S	2	c	57	92	6	5	-	-	10	10	1500
	Mildenhall ...	19	1001.4	-14	SSE	2	z₀	55	97	5	5	7	-	2-3	9+	4000
	Cranwell ...	240	1001.5	-14	WSW	3	z₀	57	85	5	8	7	-	9+	10	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1003.0	-2	WSW	1	bc	52	85	7	5	4	8	2-3	4-6	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1003.0	-6	W	4	bc/pr	55	85	8	3	-	-	4-6	4-6	1500
	Bristol ...	209	1003.6	-6	SW'W	2	bc	53	85	8	8	-	-	2-3	2-3	4000
	Portland Bill ...	32	1004.0	-2	W	3	bc	57	92	8	5	-	-	4-6	4-6	4000
	Plymouth ...	82	1004.5	-6	WSW	2	b	56	85	8	3	-	-	2-3	2-3	2500
	The Lizard ...	240	1004.6	-8	W	2	bc	53	97	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1004.5	-10	SW'W	2	c	54	92	8	8	4	-	4-6	7-8	2500
	Guernsey ...	175														
6	Pembroke ...	142	1002.3	-2	W	4	bc	57	75	8	8	-	-	4-6	4-6	1500
7	Holyhead ...	26	999.8	-10	SSW	3	c	55	97	8	8	-	-	9+	9+	2500
	Chester (Sealand)	16	1001.4	-6	SE	2	bc	54	85	7	4	-	-	7-8	7-8	4000
8	Manchester ...	70	1001.6	-8	NNE	1	c/f	48	97	5	5	-	-	7-8	7-8	4000
10	Spurn Head ...	29	1001.0	-14	SSE	2	o	56	92	6	5	-	-	10	10	1500
	Catterick ...	175	1001.2	-8	-	0	bc	53	85	7	4	-	-	2-3	2-3	4000
	Tynemouth ...	108	1002.4	-4	WSW	2	bc	55	85	6	8	-	-	4-6	4-6	2500
11	St. Abbs Head	280	1000.0	0	W	3	c	54	75	7	8	6	-	7-8	9+	1500
	Leuchars ...	36	1000.3	-6	-	0	z₀	51	97	6	5	-	-	7-8	7-8	4000
12	Renfrew (Abbots I.)	19	1000.2	-8	NE'E	1	z₀	50	92	5	5	3	1	4-6	9	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	999.8	-6	SSW	3	bo	53	97	8	4	-	-	2-3	2-3	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1000.7	-4	NE	1	c	51	97	7	5	1	-	4-6	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1001.4	-10	SE	4	c	54	97	7	5	7	-	7-8	10	800
16	Lerwick ...	156	1005.3	-16	E	4	c	50	92	8	5	3	-	4-6	7-8	1500
17	Blacksod Point	18	999.7	-2	WN	1	c	53	85	8	5	-	-	9	9	1500
18	Malin Head ...	84	998.6	-8	SSW	1	c	53	92	8	5	7	-	4-6	7-8	2500
	Aldergrove ...	268	998.7	-10	S	1	bc	51	92	8	5	-	-	4-6	4-6	4000
19	Birr Castle ...	173	1000.7	-4	SSW	1	c	51	92	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	30	1001.6	-14	-	0	pr	51	92	8	9	-	-	7-8	7-8	2500
	Roches Point	22	1001.8	-6	W	2	b	51	92	8	5	-	-	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 7th July

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	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)	1003.4	+4	WSW	2	c	57	75	8	2	-	2	Tr	9	2500	1	*
Croydon	1003.5	+4	W'N	2	c	59	75	8	2	-	6	1	7-8	2500	1	*
S. Farnborough	1003.6	+2	WSW	2	bc	56	85	8	3	3	6	Tr	4-6	2500	1	*
Boscombe Down	1003.5	+2	SW'S	2	bc	54	85	8	3	3	3	1	4-6	2500	1	*
Calshot (Sthmtn.)	1003.9	+2	WSW	3	c	60	85	8	2	3	4	2-3	9	1500	1	0
Lympne	1004.4	+2	W'N	2	bc	57	85	8	5	3	4	Tr	2-3	2500	1	§2
Manston	1003.2	+10	W	3	c	57	85	7	8	7	-	4-6	7-8	4000	1	*
Shoeburyness	1003.7	+6	W'N	2	c	59	75	6	1	4	6	Tr	7-8	4000	1	*
Felixstowe	1002.3	+6	WNW	3	c	57	85	7	5	3	2	7-8	9	4000	1	1
Gorleston	1001.9	+2	WNW	3	bc	56	92	6	2	6	-	2-3	4-6	2500	1	1
Mildenhall	1002.0	+10	WSW	3	bc	57	85	7	-	7	9	0	7-8	-	1	*
Cranwell	1001.5	+2	W'S	3	z₀	58	75	6	1	-	8	Tr	2-3	2500	0	*
Birmingham	1002.7	-2	SW	2	bc	55	75	8	7	5	-	2-3	2-3	1500	1	*
Upper Heyford	1002.8	0	SW'W	3	b	55	85	8	1	4	4	Tr	2-3	2500	1	*
Ross-on-Wye	1002.3	-6	WSW	3	bc	56	85	8	8	-	-	2-3	2-3	4000	0	*
Hartland Point	1002.3	0	S	3	bc	55	85	8	3	-	3	2-3	4-6	1500	1	3
Bristol	1003.1	-4	SSW	3	bc	57	85	8	8	6	5	2-3	4-6	2500	0	*
Portland Bill	1004.5	+4	SW	3	c	56	85	8	5	-	-	10	10	4000	1	3
Plymouth	1003.1	-6	-	0	c	57	85	6	3	4	6	4-6	7-8	1500	0	1
The Lizard	1002.9	-6	-	0	c	56	92	8	8	2	-	7-8	10	1500	1	2
Scilly (St. Mary's)	1002.1	-10	S'W	1	r₀r₀	54	97	8	9	7	-	7-8	9+	1500	1	1
Guernsey																
Pembroke	1001.6	0	-	0	bc/pr	54	85	8	8	6	-	4-6	4-6	800	1	2
Holyhead	999.9	+2	WSW	3	bc	56	85	9	8	3	-	2-3	2-3	2500	0	2
Chester (Sealand)	1000.8	-2	SE	1	bc	55	85	8	8	6	1	4-6	4-6	2500	1	*
Manchester	1001.1	-2	S'W	3	z₀	54	85	6	5	3	-	7-8	7-8	4000	1	*
Spurn Head	1000.7	+2	-	0	o	57	92	4	8	-	-	9+	9+	800	1	1
Catterick	1000.4	-4	SE'E	1	bc	55	75	8	8	4	3	2-3	2-3	2500	0	*
Tynemouth	1000.8	-4	W	1	bc	55	85	6	2	3	-	2-3	4-6	2500	1	1
St. Abbs Head	998.6	-8	NW	1	bc	54	65	9	3	3	4	2-3	4-6	2500	0	1
Leuchars	999.1	-6	W	1	bjf	53	97	8	8	-	3	Tr	1	4000	1	*
Renfrew (Abbots I.)	999.4	-2	NE'N	1	z₀	56	85	6	5	3	-	4-6	9	4000	1	*
Eskdalemuir	999.9	-4	-	0	bc	52	85	8	5	7	1	1	4-6	2500	0	*
Point of Ayre	999.1	0	W	3	c	58	85	8	2	3	-	2-3	7-8	1500	0	2
Tiree	998.8	0	ESE	2	c	55	92	8	5	-	-	9+	9+	1500	1	2
Stornoway	999.0	0	SSE	2	bc	53	97	7	5	4	2	Tr	4-6	2500	1	1
Dalwhinnie	999.7	-8	NNE	1	bc	49	92	6	4	4	-	4-6	7-8	800	1	*
Aberdeen	999.5	-8	NW'N	2	rlr	54	97	6	9	-	-	-9+	9+	450	1	1
Wick	999.6	-6	SE	3	c	54	97	7	5	2	-	7-8	10	800	1	1
Lerwick	1002.9	-12	E	5	c	54	85	8	5	9	-	4-6	7-8	1500	0	*
Blacksod Point	999.7	+4	W'S	1	c	55	85	8	3	-	-	9	9	800	0	2
Malin Head	998.3	+2	S	1	c	55	85	8	5	7	-	2-3	7-8	5700	0	0
Aldergrove	998.8	+6	S'W	1	c	53	92	9	5	-	-	10	10	800	1	*
Birr Castle	1000.6	+2	SSW	1	c	53	85	8	5	3	-	4-6	7-8	2500	0	*
Valentia Obsy.	1000.5	-2	NE'E	1	c	52	92	9	8	3	2	2-3	9+	2500	1	3
Roches Point	1000.5	-2	WNW	2	bc	52	92	8	5	-	5	1	4-6	4000	1	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)	Night 18h–7h mm. (35)	Sunshine 6th Hrs. (36)
London (Kew)	64	55	48	4	-	0.8
Croydon	63	52	46	4	-	0.3
S. Farnborough	65	48	40	5	-	1.7
Boscombe Down	69	46	36	1	Tr	2.9
Calshot (Sthmtn.)	69	51	48	9	-	2.5
Lympne	62	52	50	4	0.1	0.0
Manston	64	54	52	4	0.5	0.2
Shoeburyness	67	55	51	6	-	0.1
Felixstowe	66	52	53	8	Tr	1.5
Gorleston	66	55	53	8	0.3	5.4
Mildenhall	64	53	49	7	0.5	2.2
Cranwell	66	52	50	Tr	Tr	4.1
Birmingham	67	49	46	Tr	1	4.4
Upper Heyford	68	47	39	2	Tr	*
Ross-on-Wye	69	47	37	Tr	Tr	6.7
Hartland Point	62	52	51	3	2	8.8
Bristol	69	48	38	-	Tr	5.5
Portland Bill	60	55	*	[illegible]	0.1	*
Plymouth	65	51	49	Tr	Tr	9.9
The Lizard	65	52	*	-	2	10.9
Scilly (St. Mary's)	65	53	*	0.1	1	10.7
Guernsey						
Pembroke	63	54	*	Tr	Tr	11.0
Holyhead	62	53	51	-	-	12.9
Chester (Sealand)	65	50	48	5	1	5.8
Manchester	66	47	41	1	Tr	3.2
Spurn Head	68	55	*	-	0.2	4.5
Catterick	67	45	39	0.1	-	5.9
Tynemouth	60	51	47	4	5	*
St. Abbs Head	60	52	*	8	0.3	*
Leuchars	62	48	46	2	0.4	3.5
Renfrew (Abbots I.)	68	49	44	3	1	6.1
Eskdalemuir	64	35	30	0.1	-	7.7
Point of Ayre	66	51	*	-	-	7.8
Tiree	63	53	*	-	0.5	7.8
Stornoway	56	49	*	3	1	4.0
Dalwhinnie	58	37	30	3	2	1.2
Aberdeen	60	53	52	0.1	5	9.8
Wick	56	53	*	-	3	*
Lerwick	56	49	*	-	-	10.3
Blacksod Point	60	50	*	-	1	*
Malin Head	59	50	*	10	1	2.1
Aldergrove	65	50	47	1	-	5.4
Birr Castle	65	49	47	1	-	9.5
Valentia Obsy.	60	48	44	0.2	8	12.0
Roches Point	62	48	*	7	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	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	cdmgr₀rr	crcprc	c	64	55	48	4	-	0.8	*	*	8
Croydon	217	cr₀r₀m₀	r₀r₀pr₀	cbc	63	52	46	4	-	0.3	*	*	8
Greenwich (Royal Observatory)	149	crr	rr₀c	cbcv	64	52	46	3.3	-	0.1	81	61	8
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	63	54	50	3.5		-	81	71	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	c	c	*	64	54	50	4.8	-	*	*	64	*
Kensington	80	bccr	bc	*	66	53	48	4.1	Tr		77	63	*
Hampstead Observatory	450	or	bc	bc	62	56	54	3.7	-		*	77	*

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	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.	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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 8th July 1940.

No. 28718

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

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)...	1004·1	+8	SSW	2	r/tlr	59	85	6	9	-	-	9+	9+	1500
	Croydon ...	1003·6	-2	WSW	2	c/pr	59	85	7	9	-	-	9+	9+	1500
	S. Farnborough	1003·2	+2	S	2	c/pr	61	75	8	3	6	3	7-8	9	2500
	Boscombe Down	1002·1	-10	SSW	4	c	65	55	8	2	-	2	4-6	9	4000
	Calshot (Soton.)	1003·9	0	SSW	4	c	65	65	8	2	-	4	4-6	7-8	2500
	Lympne ...	1005·3	+2	SW	4	c	63	65	9	2	4	3	4-6	7-8	1500
	Manston ...	1004·5	+6	SSW	5	c	64	65	8	2	3	3	4-6	7-8	2500
2	Shoeburyness ...	1004·1	0	SW'W	3	c/tlr	66	65	8	3	8	3	7-8	7-8	4000
	Felixstowe ...	1003·0	+4	S'W	5	bc	69	55	8	2	6	6	4-6	4-6	2500
	Gorleston ...	1002·8	+4	W	2	bc	66	55	7	7	-	-	4-6	4-6	2500
	Mildenhall ...	1002·1	-2	SSW	2	c/pr	70	45	9	8	7	1	4-6	7-8	4000
	Cranwell ...	1001·3	-2	SW	3	c	68	45	8	2	6	-	7-8	9	4000
3	Birmingham	1002·2	0	SW	2	bc	62	55	8	8	7	-	4-6	4-6	4000
	Upper Heyford	1002·2	-10	SW	3	c	66	45	8	8	7	-	4-6	9+	1500
4	Ross-on-Wye ...	1001·7	-6	SSW	3	c	66	45	8	2	-	2	4-6	7-8	4000
5	Hartland Point	1002·1	0	W	2	c/r	57	85	8	8	-	-	9	9	2500
	Bristol ...	1002·6	-6	SW	3	c	66	55	9	3	6	3	7-8	9	2500
	Portland Bill ...	1004·5	+4	SW	3	c	60	85	8	5	-	-	4-6	7-8	4000
	Plymouth ...	1002·7	-2	SSW	2	roro	59	85	7	2	7	-	4-6	9	1500
	The Lizard ...	1002·0	-4	-	0	c	61	75	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1001·8	+14	SE	2	c	61	75	9	8	7	3	4-6	9	1500
	Guernsey ...														
6	Pembroke ...	1001·8	0	SW'W	1	bc	61	85	8	8	7	-	4-6	4-6	1500
7	Holyhead ...	1000·9	+8	SW'S	4	b	61	75	9	8	4	-	1	1	2500
	Chester (Sealand)	1000·9	+2	NW'W	3	pr	62	65	8	8	-	3	7-8	9	2500
8	Manchester ...	1001·1	+2	NW	2	c	59	75	8	8	-	-	4-6	9	2500
10	Spurn Head ...	1000·7	0	SW'S	3	c	72	45	7	2	-	-	7-8	7-8	1500
	Catterick ...	1000·0	+4	SW	3	c/pr	67	45	8	8	-	-	7-8	7-8	4000
	Tynemouth ...	1000·4	0	SE	3	c/pr	58	85	6	8	-	-	7-8	7-8	2500
11	St. Abbs Head	999·4	+4	ENE	2	r/tlr	53	85	7	3	2	-	7-8	9	1500
	Leuchars ...	998·5	+2	E	2	bc	61	85	8	3	-	3	4-6	4-6	1500
12	Renfrew (Abbots I.)	999·5	+6	-	0	r tlr	54	85	8	9	7	-	7-8	9+	2500
	Eskdalemuir ...	998·9	+2	WSW	4	pr	59	65	8	8	7	-	4-6	4-6	1500
	Point of Ayre ...	1000·4	+8	NW'W	4	bc	68	75	8	8	4	-	4-6	4-6	2500
13A	Tiree ...	998·8	+4	ENE	1	bc	58	85	8	2	4	-	2-3	2-3	2500
13B	Stornoway ...	999·0	0	S	2	c	63	75	8	8	7	-	7-8	9+	2500
15	Dalwhinnie ...	999·1	0	SSE	2	iro	56	75	8	2	6	-	4-6	9+	2500
	Aberdeen ...	999·1	-4	E	2	bc	58	85	7	8	7	3	1	4-6	1500
	Wick ...	999·1	0	E	2	c	55	55	6	5	1	7	7-8	10	800
16	Lerwick...	1002·4	-2	E'N	5	c	55	85	8	5	7	-	4-6	7-8	1500
17	Blacksod Point...	1001·2	+8	W'S	2	b	62	85	8	3	6	-	2-3	2-3	1500
18	Malin Head ...	999·7	+6	NW	3	bc	57	85	8	1	-	1	2-3	4-6	5700
	Aldergrove ...	999·3	+6	W	2	c	62	65	9	3	-	-	9	9	2500
19	Birr Castle ...	1001·5	+8	W'N	1	pr	57	85	8	8	7	-	7-8	9+	1500
20	Valentia Obsy. †	1002·7	+10	WNW	3	b	60	75	9	8	4	-	1	1	2500
	Roches Point ...	1001·6	+8	SSW	2	bc	61	75	9	3	4	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 7th July

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)	1003·4	-2	SW	3	f	67	55	2	8	-	6	2-3	7-8	2500	1	*
Croydon	1003·5	-2	S	3	bc	64	65	8	2	-	3	2-3	4-6	4000	1	*
S. Farnborough	1003·2	0	SSW	4	c	65	55	9	2	4	6	2-3	7-8	4000	1	*
Boscombe Down	1002·3	+2	S'E	4	c	65	45	8	8	3	8	4-6	7-8	4000	0	*
Calshot (Soton.)	1003·6	-2	SSW	3	c	65	65	8	2	7	8	2-3	7-8	2500	0	2
Lympne	1005·2	0	SW'S	2	bc	63	55	9	2	6	3	1	4-6	2500	0	§2
Manston	1004·2	-2	SW	3	bc	65	55	9	2	-	2	1	4-6	2500	0	*
Shoeburyness	1004·5	+4	SW'S	4	c	65	55	9	2	-	2	4-6	7-8	4000	1	*
Felixstowe	1003·8	+2	S	2	c	65	55	8	3	4	3	1	7-8	2500	0	2
Gorleston	1003·5	+2	WSW	3	bc	64	55	7	8	-	-	4-6	4-6	2500	1	1
Mildenhall	1003·1	+2	SW'S	2	c	63	65	8	8	7	3	2-3	7-8	4000	1	*
Cranwell	1002·1	+6	SSW	3	bc	66	55	8	2	6	9	2-3	4-6	4000	0	*
Birmingham	1003·0	+4	WSW	2	c	61	65	8	8	-	-	7-8	7-8	2500	1	*
Upper Heyford	1002·8	0	SSE	2	cjp	62	75	8	8	6	3	4-6	7-8	2500	1	*
Ross-on-Wye	1003·0	+4	WSW	2	c	61	65	8	8	-	-	4-6	7-8	4000	0	*
Hartland Point	1003·5	+14	W	2	c	59	85	9	8	6	-	7-8	7-8	2500	1	2
Bristol	1003·2	+2	W'S	2	bc	62	75	8	7	6	1	2-3	4-6	2500	0	*
Portland Bill	1003·6	-4	S	3	c	59	75	8	2	4	-	7-8	9	4000	1	3
Plymouth	1003·6	+8	SSW	2	c	60	75	8	8	-	-	9+	9+	2500	0	2
The Lizard																
Scilly (St. Mary's)	1004·1	+10	WNW	2	bc	60	75	9	8	4	-	2-3	4-6	2500	0	1
Guernsey																
Pembroke	1005·0	+8	NW'W	1	bc	61	75	9	2	7	-	2-3	2-3	1500	1	1
Holyhead	1002·2	+8	SW'S	3	bc	59	75	9	2	3	5	Tr	1	2500	0	2
Chester (Sealand)	1002·2	+6	-	0	bc/pr	61	75	8	8	3	-	4-6	4-6	4000	1	*
Manchester	1002·5	+4	WNW	2	bc/pr	60	75	7	8	4	3	2-3	4-6	5700	1	*
Spurn Head	1001·4	0	S'W	3	c	68	55	6	8	-	-	4-6	7-8	1500	0	2
Catterick	1001·3	+12	SW	3	bc	65	45	8	2	6	-	4-6	4-6	4000	0	
Tynemouth	1001·0	+4	SSE	3	c	57	85	7	2	-	-	7-8	7-8	2500	1	1
St. Abbs Head	999·6	0	SE	2	bc	60	75	9	3	3	9	4-6	4-6	1500	1	2
Leuchars	999·3	+6	-	0	c/pr	62	65	8	3	7	3	4-6	9	1500	0	*
Renfrew (Abbots I.)	1000·1	+6	SW'W	3	bc/pr	61	65	9	8	6	-	4-6	4-6	2500	1	*
Eskdalemuir	999·9	+6	WSW	3	c	61	55	8	8	-	-	7-8	7-8	1500	1	*
Point of Ayre	1001·6	+6	W	4	bc	63	65	8	2	4	-	Tr	4-6	4000	0	2
Tiree	1000·1	+8	NW'N	1	bc	59	85	8	2	-	-	2-3	2-3	2500	0	1
Stornoway	1000·1	+4	-	0	c	57	75	7	8	7	1	7-8	7-8	2500	0	0
Dalwhinnie	[illegible]	+8	NNE	1	ir	53	85	8	3	7	-	4-6	9	2500	1	*
Aberdeen	999·4	+2	SW'W	1	bc/r	56	85	7	8	7	3	Tr	4-6	2500	1	1
Wick	999·3	0	E	2	c	54	92	5	5	7	8	7-8	9+	800	1	1
Lerwick	1001·5	+2	NE'E	5	c	54	92	8	5	7	-	7-8	10	800	0	*
Blacksod Point	1003·7	+12	W	3	c	59	85	9	3	6	-	4-6	7-8	1500	6	3
Malin Head	1001·5	+12	N'W	2	bc	59	75	8	1	-	-	4-6	4-6	5700	5	0
Aldergrove	1001·1	+6	NNE	1	pr	58	85	9	3	6	3	4-6	9	2500	1	*
Birr Castle	1003·2	+12	W'N	2	c/pr	62	65	8	6	7	-	4-6	7-8	1500	0	*
Valentia Obsy. †	1006·4	+24	WNW	4	bc	60	75	9	8	-	-	4-6	4-6	2500	0	3
Roches Point	1004·1	+14	SW'W	2	RR	56	97	7	6	2	-	7-8	9	800	1	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 7th (37)	13h.—18h. 7th (38)	18h. 7th to 1h. 8th (39)	1h.—7h. 8th (40)
London (Kew)	cbc ctlpr	cprocy	cyc	cmo
Croydon	bcproPR	cbc	c,prororo	cproc
S. Farnborough	bccprq	cbccy ⊕	bcycbc	bcwc
Boscombe Down	cprc	bc	bc	bc
Calshot (Soton.)	cprc	bccbc	cprobc	bc
Lympne	bcc	cbcvy	bccrorr	rrRroc
Manston	protjp	cjpbc	crrmo	crrromo
Shoeburyness	PRtc	cprbcy	bcycpr	rrrororc
Felixstowe	c,bcvy	bcvycprot	crcirome	cirororoido
Gorleston	bcy	bcctlro	bcc	ororo
Mildenhall	probcyv	bcyviroc	cbc	bccmo
Cranwell	bzobccy	cbcy	bybcc	c,cbcmozo
Birmingham	bcpro	ctlRh	cpro	cbc
Upper Heyford	cy	ctlrocjp	cprbcb	bcmobc
Ross-on-Wye	bczpcrbc	bcy	cvbcv	bc
Hartland Point	bccro	cpoc	cbcb	b,cpo
Bristol	bccproc	cproc	bccbc	bwfgbc
Portland Bill	c	c	cbc	bc
Plymouth	crorо	crorоc	b	bbccpro
The Lizard	rrc		bcw	bc
Scilly (St. Mary's)	cwroc	bc	bccbc	bcc
Pembroke	prbc	bcv	bc	c
Holyhead	bbcb	b	bwc	c
Chester (Sealand)	cpr	cprprobc	bcbw	bwcbcc
Manchester	cyprcq	ctprqpro	bcbbmow	fffgcmow
Spurn Head	c	c	b	bc
Catterick	bcprobc	cybcy	cbw	bbcc
Tynemouth	bccp	cptlc	cptlbc	bbc
St. Abbs Head	bctlc	bc	tlrbc	bc
Leuchars	bifbcpr	bcprc	PRprobcbw	bwb
Renfrew (Abbots I.)	cmoPRTLR	cRRpRt	bcb	b,cwpr
Eskdalemuir	cprbc	cprbcy	bcprc	cpro
Point of Ayre	bc	bc	cbcbc	c
Tiree	cRbc	bc	bc	bcpr
Stornoway	bcct	ct	cpr	c
Dalwhinnie	c	rr		cir
Aberdeen	ctcbc	tRbc	bcpro	cbc
Wick	cmo	cmoc	procm	mcbc
Lerwick	c	c	c	cbccw
Blacksod Point	bc	bcc	pro	bc
Malin Head	bcrbc	cbcc	cprocbc	c
Aldergrove	c		protlrob	b,cbc
Birr Castle	cpro	cpr	cprbc	cbc
Valentia Obsy. †	cbbcvbv	bvbcv	bcvcproc	cbcwbbcc
Roches Point	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.

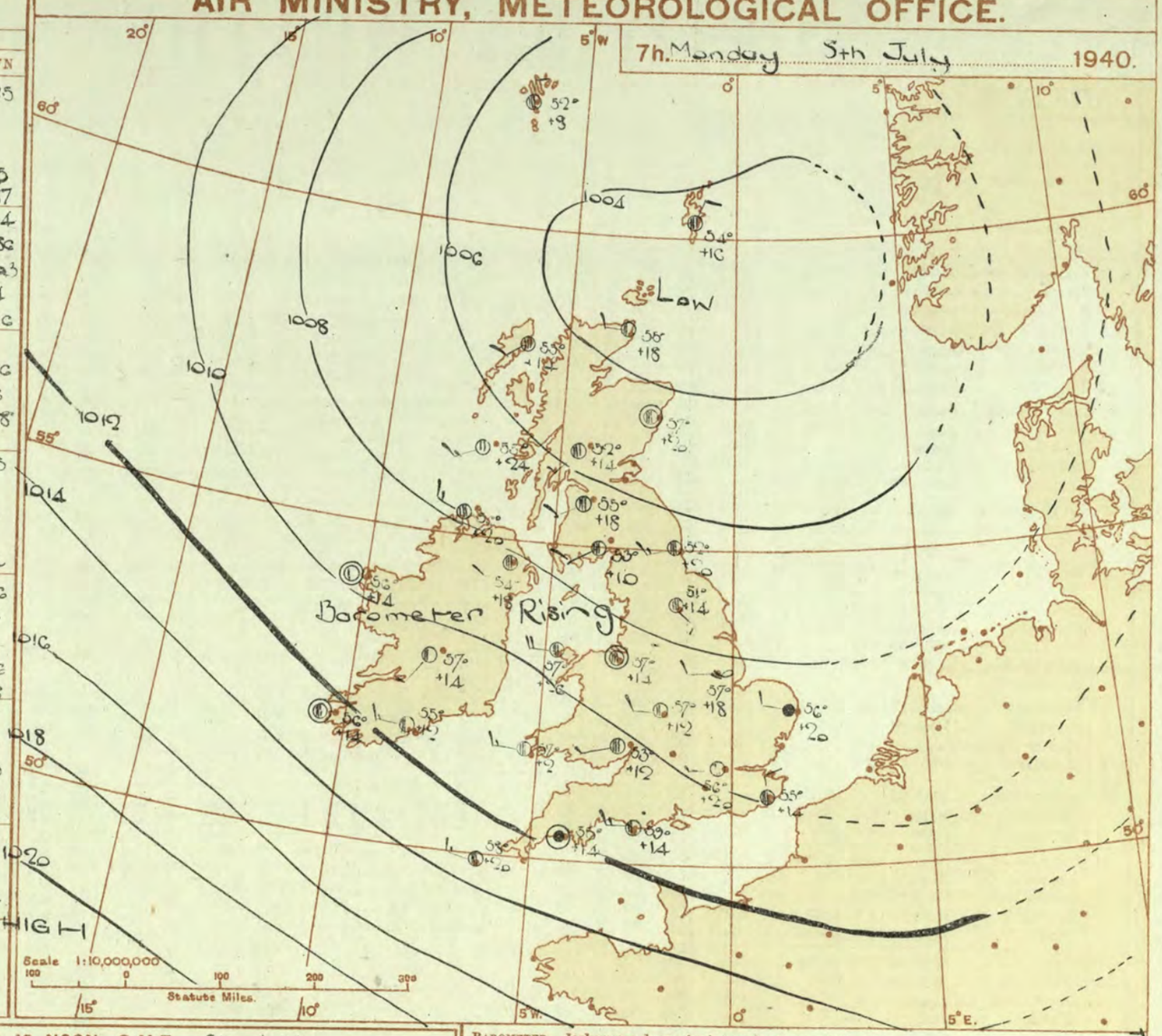
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 7th July				18h. G.M.T.				01h. G.M.T. 8th July				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	92	25627	10488	86	02724	06315		- -	46209	00043		87	02864	28225	
115	65	09834	08425	71	09933	08315		61	08734	13325					
203															
206	28	01964	08114	82	25864	04187		53	02854	00016		73	01964	20125	
210	87	02855	04316	82	10845	31117		53	02855	22116		8-	81947	24287	
220	83	82854	19114	73	01853	27204						83	01843	27314	
230	96	25846	00087	8-	10857	22217		86	81856	00086		06	10845	22286	
245	36	00752	09313	36	01954	17414		43	01958	24183		50	01963	24203	
260	8-	82757	08197	8-	02855	12115		40	00861	22211		24	01763	20314	
277	36	01954	18425	36	01953	20314		48	01854	24225		83	02853	22326	
279															
285												23	02744	24416	
288	30	25845	00086					50	00750	18210		57	02856	20216	
273												36	65544	22268	
301															
321	8-	02764	22214	8-	11655	24185		86	05663	16114		53	05564	22115	
299				8-	11745	24315									
292	30	01853	24383	83	01964	24314		40	00761	00011		54	05664	20115	
310															
316	80	01763	20213	86	01764	18214						03	05630	20214	
333	20	00953	22313	36	00961	22302						88	02855	28426	
334												--	01753	20114	
340	8-	02946	20316	20	10955	19315		50	06862	19202		80	02855	18115	
136	8-	01854	22215	86	02864	21106		03	01850	17114		03	05630	26216	
336												--	02853	20516	
350															
368	86	02954	21326	86	02842	21225		50	00851	24201		87	05654	26185	
379	23	02855	20326					50	01772	24202		50	01863	24303	
390	84	16784	16315	36	02864	17206		57	64665	18168		53	05672	27267	
382	37	82845	15487	34	10845	00086						23	01861	00243	
438	57	02844	22417									02	02750	27127	
430				27	81854	15327		53	02773	00026					
409	87	02855	16386	84	01964	30224		50	01843	25303		85	25844	25484	

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.



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 July,
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light W to NW wind; bright intervals, thundery showers during day; average temperature.
5 S.W. England 6 South Wales ...	Light W to NW wind; mainly fair, occasional showers; 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.	As 1-4
13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light northwesterly or variable wind; bright intervals; thundery showers during day; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 1-4
19 S. E. Ireland 20 S. W. Ireland	As 5-6

GENERAL INFERENCE.

Pressure is high to the southwest of the British Isles, and a depression between Scotland and Norway is moving northeast.
Bright intervals and showers with occasional thunder will occur in all districts, but will be less frequent in the extreme southwest and will disperse generally at night.

FURTHER OUTLOOK.

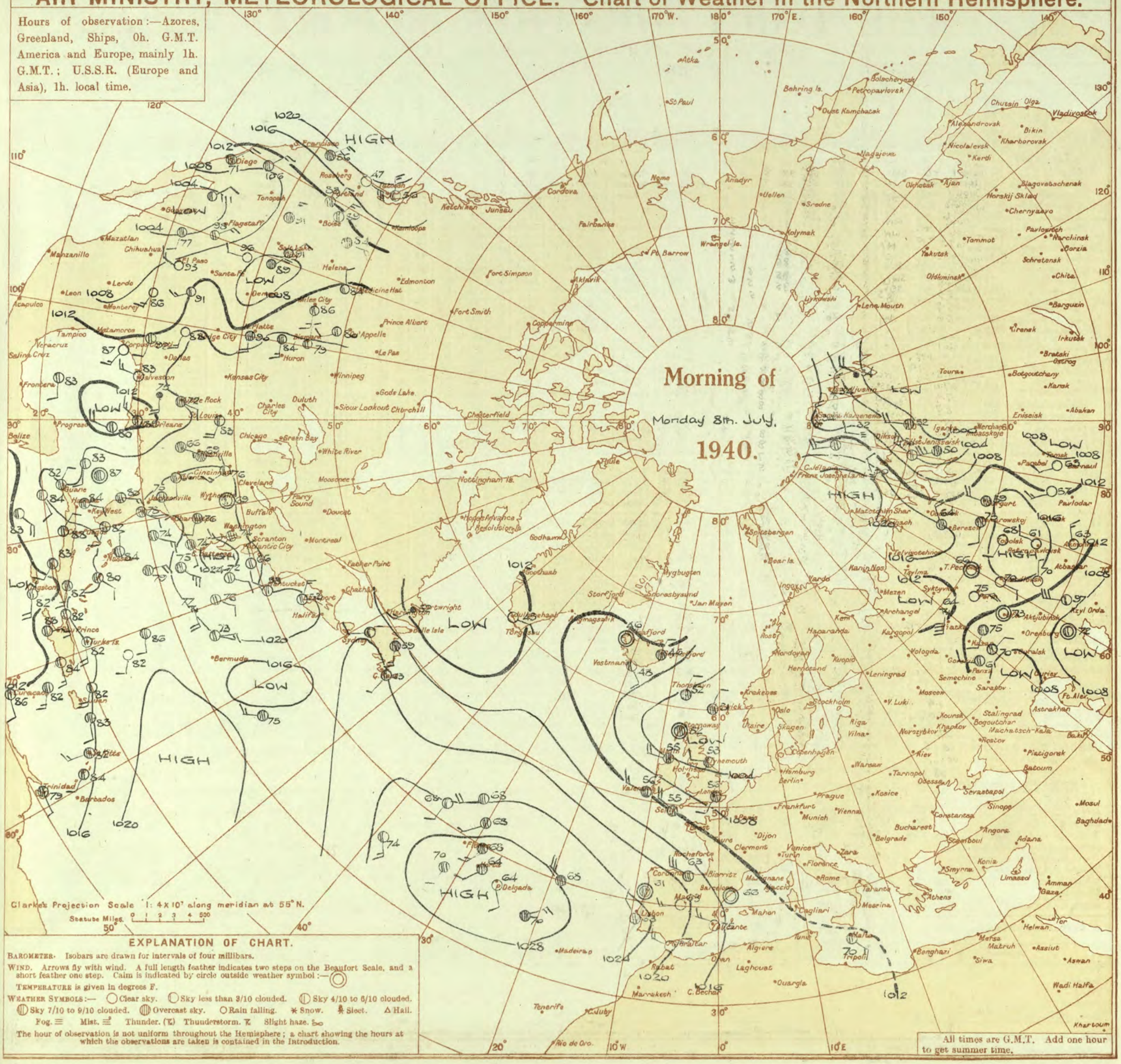
Fair in the Southeast, unsettled in the North and West.

Forecasts issued at 10.30 a.m.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3992. m. 5049. D. 3705. G. 548. (5803.8/40)

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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 8th July 1940.

No. 28718

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

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	1006.1	+6	SW	1	c/r	56	97	8	5	-	-	9	9	4000
	S. Farnborough	226	1006.3	+8	-	0	bc	55	92	7	5	3	6	2-3	4-6	4000
	Boscombe Down	417	1006.8	+14	WNW	1	c	54	92	7	5	-	-	7-8	7-8	2500
	Calshot (Sthmtn.)	8	1006.6	+14	WNW	2	bc	56	85	8	-	3	-	0	2-3	-
	Lympne	346	1007.2	+8	N'E	1	rr	54	85	5	5	-	-	10	10	1500
	Manston	154	1006.7	+10	-	0	rr	55	97	5	6	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1006.5	+14	SW	2	ir0	60	85	5	6	2	-	4-6	10	1500
	Gorleston	5	1005.9	+4	SW'S	2	c	58	85	6	5	-	-	9	9	2500
	Mildenhall	19	1005.7	+8	SSW	2	bc	55	85	7	4	7	-	4-6	4-6	4000
	Cranwell	240	1005.6	+8	W	2	c	54	85	7	5	-	-	7-8	7-8	4000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1006.1	+10	-	0	Z0	49	97	6	-	4	-	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007.8	+18	WNW	3	b	56	85	9	-	4	-	Tr	Tr	7200
	Bristol	209	1007.0	+14	WSW	2	bc	53	92	8	4	-	-	2-3	2-3	4000
	Portland Bill	32	1007.4	+12	NW	3	bc	57	85	8	5	-	-	4-6	4-6	4000
	Plymouth	82	1008.7	+16	-	0	b	53	92	8	2	-	-	Tr	Tr	2500
	The Lizard	240	1008.9	0	NW	2	bc	53	97	8	8	-	1	2-3	2-3	2500
	Scilly (St. Mary's)	163	1009.8	+18	WNW	4	bc	55	85	8	4	-	-	2-3	2-3	2500
	Guernsey	175														
6	Pembroke	142	1006.9	+10	WNW	2	bc	56	92	8	8	6	-	2-3	4-6	1500
7	Holyhead	26	1005.3	+14	W	4	c	56	85	8	8	4	-	9+	9+	2500
	Chester (Sealand)	16	1005.8	+10	-	0	b	47	75	7	4	-	-	Tr	Tr	4000
8	Manchester	70	1005.6	+6	SSW	1	fg	45	97	5	-	-	-	0	0	-
10	Spurn Head	29	1004.9	+8	-	0	b	56	92	6	-	-	-	0	0	-
	Catterick	175	1004.9	+10	-	0	b	49	85	8	5	-	-	Tr	Tr	7200
	Tynemouth	108	1003.5	+8	W	2	bc	53	85	6	5	-	-	4-6	4-6	2500
11	St. Abbs Head	280	1002.6	+12	W	3	bc	52	85	8	4	4	-	2-3	4-6	2500
	Leuchars	36	1002.1	+10	WSW	3	b	52	92	8	4	4	-	Tr	Tr	4000
12	Renfrew (Abbots I.)	19	1003.6	+12	SW'W	1	b	50	92	8	5	3	-	1	1	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1004.4	+10	W	2	bc	52	97	8	4	3	-	2-3	4-6	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1002.0	+12	-	0	c	52	97	7	5	7	-	7-8	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1001.1	+6	W	1	m	52	97	4	5	7	-	7-8	10	800
16	Lerwick	156	1002.0	0	NNE	2	c	51	97	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	18	1006.6	+10	W	2	pr	54	92	3	3	-	-	7-8	7-8	800
18	Malin Head	84	1004.4	+12	WNW	3	c/pr	55	85	8	8	-	-	7-8	7-8	5700
	Aldergrove	268	1005.0	+14	W'S	1	bc	51	92	8	8	-	-	2-3	2-3	2500
19	Birr Castle	173	1007.5	+14	NW	1	bc	49	92	8	5	4	-	2-3	2-3	2500
20	Valentia Obsy.	30	1010.0	+12	W'N	3	c/pr	56	85	8	8	-	-	9	9	2500
	Roches Point	22	1008.9	+18	WNW	2	bc	53	92	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 8th July — 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 7th Hrs. (36)
London (Kew)	1009.5	+18	W	2	Z0	57	85	6	5	3	-	4-6	9+	2500	1	*	67	54	48	2	-	11.0
Croydon	1009.2	+20	W	1	c	56	92	8	5	3	-	2-3	9+	4000	1	*	67	55	51	4	0.5	12.1
S. Farnborough	1008.9	+20	W'N	3	c	55	85	8	5	3	-	4-6	9	5700		*	67			2		
Boscombe Down	1010.3	+18	W'N	3	bc	57	75	8	7	4	-	2-3	2-3	2500	0	*	68	52	47	0.5	-	10.4
Calshot (Sthmtn.)	1010.0	+18	NW'W	3	c	57	85	8	2	3	-	Tr	7-8	2500	0	1	66	54	53	0.4	0.1	12.0
Lympne	1009.7	+14	N'W	2	c/r	55	85	7	5	2	-	4-6	9+	2500	1	§1	65	53	53	–	4	12.4
Manston	1008.8	+16	NW'N	2	r0r0	56	92	6	6	2	-	7-8	10	800	1	*	68	55	*	Tr	4	11.7
Shoeburyness	1009.0	+12	WSW	1	c/r	59	85	6	5	7	-	1	10	1500	1	*	70	56	54	2	2	10.6
Felixstowe	1008.6	+14	W	2	r0r0	57	92	7	6	2	-	7-8	10	800	1	1	70	57	55	Tr	3	8.9
Gorleston	1008.3	+20	W'N	2	r0r0	56	92	6	6	-	-	10	10	1500	1	1	69	56	52	0.3	2	10.9
Mildenhall	1008.4	+18	WSW	2	Z0	54	92	6	-	3	-	0	9	-	0	*	72	51	46	Tr	-	9.4
Cranwell	1008.9	+18	W	2	Z0	57	75	6	-	4	9	0	4-6	-	0	*	70	51	46	–	-	11.6
Birmingham	1009.6	+12	W	2	bc	57	75	8	4	3	-	2-3	4-6	2500	1	*	66	47	37	6	Tr	9.1
Upper Heyford	1009.5	+16	W	2	bc	57	75	8	5	-	-	4-6	4-6	5700	1	*	69	49	40	0.3	0.1	*
Ross-on-Wye	1010.0	+12	SW'W	1	c	53	75	9	5	-	-	9	9	4000	0	*	69	45	35	1	-	7.5
Hartland Point	1010.8	+20	WNW	3	bc	59	85	9	8	4	-	4-6	4-6	2500	0	2	60	56	51	0.1	Tr	6.7
Bristol	1010.7	+18	W	2	c	59	85	7	8	6	-	4-6	7-8	2500	0	*	67	48	35	1	-	7.5
Portland Bill	1011.0	+14	W	3	bc	59	75	8	2	-	-	4-6	4-6	2500	1	3	62	55	*	–	-	*
Plymouth	1011.9	+14	-	0	pr	56	92	6	8	-	-	9+	9+	1500	1	1	63	48	42	0.1	Tr	0.0
The Lizard	1012.9	+16	W'N	3	bc	57	92	8	8	6	-	4-6	4-6	2500	0	2	64	53	*		-	5.0
Scilly (St. Mary's)	1012.8	+20	WNW	3	c	58	85	8	8	7	9	4-6	7-8	2500	0	2	63	55	*	1	-	7.1
Guernsey																						
Pembroke	1010.2	+2	WNW	3	c	57	85	8	8	-	-	7-8	7-8	2500	0	1	63	55	*	0.3	-	11.1
Holyhead	1008.9	+26	W'N	4	c	57	85	8	8	3	2	1	9	1500	0	3	62	54	49	–	-	14.2
Chester (Sealand)	1008.8	+14	-	0	c	57	85	8	8	7	1	2-3	9	2500	0	*	67	47	37	4	-	9.4
Manchester	1008.8	+18	SE'S	1	Z0	52	85	5	5	5	-	9	9+	5700	1	*	65	40	36	1	-	7.9
Spurn Head	1006.8	+22	WNW	2	bc	58	75	6	-	4	9	0	4-6	-	0	1	75	54	*	–	-	8.8
Catterick	1007.4	+14	SE	1	c	51	85	8	8	3	-	4-6	9	4000	0	*	69	42	36	Tr	-	12.1
Tynemouth	1007.2	+20	WSW	3	c	52	85	6	8	-	-	9+	9+	4000	1	1	64	49	47	0.2	2	*
St. Abbs Head	1005.3	+16	W	3	bc	54	85	9	4	4	9	2-3	4-6	2500	0	2	61	49	*	5	1	*
Leuchars	1005.0	+14	SW	3	bc	56	85	8	8	4	4	Tr	2-3	4000	1	*	66	48	43	0.2	2	9.1
Renfrew (Abbots I.)	1006.5	+18	WSW	2	c	55	92	8	8	3	6	4-6	9	2500	1	*	64	48	41	10	0.1	3.3
Eskdalemuir	1006.9	+10	SW'W	2	c	53	85	8	5	-	-	7-8	7-8	2500	1	*	62	41	37	2	1	5.9
Point of Ayre	1008.0	+22	W'N	3	c	57	85	8	7	3	1	4-6	9+	4000	0	2	68	51	*	–	-	9.5
Tiree	1005.7	+24	WSW	3	bc	55	85	8	8	-	-	4-6	4-6	2500	0	3	61	49	*	18	0.3	5.7
Stornoway	1004.5	+14	SW	2	c	55	92	8	5	7	-	7-8	9+	2500	1	1	63	51	*	–	3	12.3
Dalwhinnie	1005.8	+14	SW	2	c	52	85	7	4	6	-	4-6	7-8	1500	1	*	62	46	42	4	1	2.9
Aberdeen	1004.8	+20	-	0	c	57	75	7	8	3	-	2-3	7-8	2500	1	1	59	50	43	8	0.2	4.9
Wick	1003.8	+18	WNW	2	bc	55	85	8	5	7	4	4-6	4-6	1500	1	1	56	49	*	–	Tr	*
Lerwick	1003.9	+16	NNE	2	c	54	85	8	5	3	8	4-6	7-8	800	0	*	57	49	*	–	-	9.2
Blacksod Point	1009.6	+14	SSE	3	bc	56	75	8	3	-	-	Tr	2-3	2500	0	3	62	51	*	0.1	1	*
Malin Head	1007.2	+20	NW	3	c	56	85	8	2	7	-	2-3	7-8	5700	0	2	61	51	*	–	0.1	12.8
Aldergrove	1008.1	+18	SW'W	2	c	54	92	8	8	-	1	9+	9+	2500	1	*	66	47	43	0.3	0.1	7.3
Birr Castle	1010.4	+14	SW	1	bc	57	85	8	5	4	-	2-3	4-6	2500	0	*	64	46	42	4	0.3	6.1
Valentia Obsy.	1012.2	+14	-	0	c	56	85	9	8	3	6	4-6	7-8	2500	0	3		52	45	–	0.1	13.4
Roches Point	1011.8	+12	WNW	3	bc	55	85	8	8	-	-	4-6	4-6	1500	1	2	63	52	*	13	-	*

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	cbcctlpr	cpr0 cy	cycm0	67	54	48	2	-	11.0	*	*	8
Croydon	217	bcpr0 PR	cbc	cpr0r0c	67	55	51	4	0.5	12.1	*	*	7
Greenwich (Royal Observatory)	149	cvjp	cRtcy	crr0c	69	54	50	8	0.8	11.9	57	60	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	67	55	51	3			73	73	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	69	54	49	6	-		61	67	*
Camden Square	110	bc	bc	*	72	55	52	8	-	*	*	63	*
Kensington	80	bc	bctr	*	70	53	48	8	0.3		55	66	*
Hampstead Observatory	450	bcortl	bcp	bc	61	52	47	Tr	-		*	76	*

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	whole period.		

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 7th July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 8th July 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 9th. July 1940.
No. 28719

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1012.5	+10	SW	3	pr	67	55	8	8	3	-	7-8	7-8	2500
	Croydon	1012.0	+6	W	3	pr	68	55	8	9	6	-	7-8	9	4000
	S. Farnborough	1012.6	+14	W	4	c/pr	67	55	8	8	6	3	4-6	7-8	4000
	Boscombe Down	1012.6	+10	W	4	c/pr	67	55	9	2	7	-	7-8	7-8	4000
	Calshot (Soton.)	1013.3	+12	SW	5	c	66	65	8	8	3	-	4-6	7-8	2500
	Lympne ...	1012.6	+14	W'N	1	c/pr	65	65	7	2	6	-	7-8	7-8	1500
	Manston ...	1012.1	+14	WNW	2	c	65	65	7	8	7	-	4-6	9	1500
2	Shoeburyness ...	1011.7	+6	W'S	2	bc	71	45	8	2	-	-	4-6	4-6	4000
	Felixstowe ...	1011.0	+6	S'E	3	c/pr	67	75	8	2	6	-	7-8	9	2500
	Gorleston ...	1011.6	+12	SE	3	phr	57	85	6	8	-	-	7-8	7-8	1500
	Mildenhall ...	1010.9	+6	NW'N	3	c	71	45	7	8	7	-	7-8	7-8	4000
	Cranwell ...	1011.2	+14	W	3	c/pr	64	55	8	8	6	-	4-6	9	4000
3	Birmingham	1011.5	+10	NNW	2	c	63	55	8	8	7	-	7-8	9	2500
	Upper Heyford	1011.8	+6	W	4	c/pr	69	45	8	8	6	-	7-8	7-8	2500
4	Ross-on-Wye ...	1012.4	+6	NW'W	3	bc	66	55	9	8	-	-	4-6	4-6	4000
5	Hartland Point	1014.7	+12	W	3	bc	63	85	9	7	-	-	2-3	4-6	2500
	Bristol	1013.7	+10	W	3	bc	67	65	8	2	6	-	4-6	4-6	4000
	Portland Bill ...	1015.0	+14	WSW	3	c	60	75	8	5	4	-	4-6	7-8	4000
	Plymouth ...	1015.2	+12	W	4	c	63	55	8	8	-	-	7-8	7-8	1500
	The Lizard ...	1016.0	+16	W	3	c	64	75	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1015.3	+4	WSW	2	c	62	75	8	8	6	-	4-6	9+	2500
	Guernsey ...														
6	Pembroke ...	1014.5	+6	W'N	2	bc	60	85	9	2	7	-	2-3	2-3	2500
7	Holyhead ...	1012.5	+14	SSW	3	bc	63	75	9	8	-	-	2-3	2-3	2500
	Chester (Sealand)	1012.0	+12	NNW	4	bc/pr	64	65	8	8	-	3	4-6	4-6	2500
8	Manchester ...	1011.6	+10	W'N	4	bc	67	45	8	1	-	-	2-3	2-3	4000
10	Spurn Head ...	1010.2	+2	SE'E	2	c	64	75	6	2	-	-	7-8	7-8	1500
	Catterick ...	1009.5	+8	W	2	c	68	45	8	8	-	-	7-8	7-8	4000
	Tynemouth ...	1009.3	+6	W	3	bc	63	65	8	2	-	1	4-6	4-6	2500
11	St. Abbs Head	1008.3	+10	N	1	bc	61	65	8	3	6	-	4-6	4-6	1500
	Leuchars ...	1007.4	+10	W	2	c	66	55	8	3	-	3	4-6	7-8	2500
12	Renfrew (Abbots I.)	1009.6	+14	WSW	4	c	63	55	9	8	6	-	4-6	7-8	4000
	Eskdalemuir ...	1008.6	+8	W	4	bc/pr	63	55	8	8	-	-	4-6	4-6	2500
	Point of Ayre ...	1011.2	+10	NW'W	4	bc	68	65	8	2	4	-	1	2-3	2500
13A	Tiree	1009.3	+12	W'N	3	bc	61	65	8	1	4	5	2-3	2-3	4000
13B	Stornoway ...	1007.4	+14	-	0	c/pr	55	92	8	8	7	-	7-8	9+	1500
15	Dalwhinnie ...	1008.8	+12	SW	3	c	60	65	7	2	-	2	4-6	9	2500
	Aberdeen ...	1007.8	+8	S'E	2	bc	60	75	8	3	6	1	1	4-6	2500
	Wick	1007.4	+20	NNE	2	c/pr	53	85	8	8	7	2	4-6	7-8	1500
16	Lerwick... ...	1007.3	+18	S	3	c/pr	55	97	8	8	7	-	4-6	7-8	800
17	Blacksod Point..	1012.2	+14	W	3	bc	59	75	8	3	-	4	4-6	4-6	2500
18	Malin Head ...	1010.3	+8	W	4	bc	59	65	8	2	3	4	2-3	4-6	5700
	Aldergrove ...	1010.6	+12	W	3	PR	63	65	8	9	-	-	9+	9+	1500
19	Birr Castle ...	1012.4	+6	SW	2	bc	67	45	8	2	-	1	4-6	4-6	2500
20	Valentia Obsy. †	1014.3	+6	WNW	3	c	62	65	9	2	5	-	1	7-8	4000
	Roches Point ...	1014.3	+8	SW	3	c	61	75	9	8	-	-	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 8th. July — 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. 8th. (37)	Weather 13h.–18h. 8th. (38)	Weather 18h. 8th. to 1h. 9th. (39)	Weather 1h.–7h. 9th. (40)
London (Kew)	1014.9	+12	NW'W	3	bc	70	45	8	8	-	-	4-6	4-6	2500	1	*	becpr₀y	cybcy	c	cbcy
Croydon	1014.5	+10	SW'W	1	bc	68	65	8	2	6	-	2-3	4-6	4000	0	*	cbcy	cybcycbc	bcbbw	bwbcid₀
S. Farnborough	1015.1	+12	W'S	4	bc	69	35	9	8	-	-	2-3	2-3	4000	0	*	cbcprq	bcy	bcyvb	b,cm₀d₀c
Boscombe Down	1015.5	+16	W'N	4	b	67	35	8	1	-	-	1	1	4000	0	*	cpr	bcyby	bc	bcw/fid₀m₀
Calshot (Soton.)	1016.1	+14	SW	5	bc	65	75	8	2	4	-	2-3	2-3	4000	0	2	bpcpr₀	bcqbc	bbcbw	bwodm₀
Lympne	1015.7	+18	W	3	bc	65	55	8	4	6	-	2-3	2-3	4000	0	§ 3	cpr₀cf	cbcy	bcybw	bcw
Manston	1015.5	+24	NW	4	pr	60	85	7	8	-	-	7-8	7-8	1500		*	cr₀r₀c	cjppb	cpr₀b	bbcw
Shoeburyness	1015.5	+32	SW'S	1	c/pr	60	85	8	3	9	-	4-6	7-8	4000	1	*	cm₀cy	PRtpr	cbcb	bbc
Felixstowe	1014.4	+24	SE'E	2	bc	66	75	7	8	4	-	2-3	4-6	4000	0	1	ccpr₀c	bccpr₀bc	bcbbm₀	bm₀bbc
Gorleston	1014.4	+20	E	2	c/tlr	62	85	7	8	-	-	4-6	7-8	1500	1	2	otlr₀c	octlrrc	cbcb	bbc
Mildenhall	1014.0	+14	W	2	c	67	55	9	8	7	-	4-6	7-8	4000	0	*	cm₀czbcy	cpr₀qbcyv	bcyvbcb	bbc
Cranwell	1013.5	+16	W'N	3	bc	69	55	8	8	6	-	4-6	4-6	4000	0	*	bcz₀pr₀cy	c,cbcy	bbcbm₀	bm₀c
Birmingham	1014.1	+14	WNW	3	bc	67	45	8	4	-	4	2-3	4-6	4000	1	*	bcpr	cbc	bc	bcc
Upper Heyford	1014.4	+6	W'S	3	c	67	55	9	8	6	1	4-6	7-8	2500	0	*	bcpr₀cy	cybcycy	cybcb	bc
Ross-on-Wye	1014.7	+12	WSW	4	bc	66	55	8	8	-	9	4-6	4-6	4000	0	*	cvbcvpc	bcvycvy	bcbbc	c
Hartland Point	1016.3	+6	WSW	3	bc	62	75	9	1	4	4	1	2-3	4000	0	2	bcbc	bc	bccr₀	cod d₀
Bristol	1016.1	+12	W	3	bc	65	55	8	1	3	1	1	2-3	4000	0	*	bcpr₀bc	bcby	bybcc	c
Portland Bill	1016.6	+10	WSW	3	bc	60	85	8	2	4	-	4-6	4-6	4000	1	3	bcc	bc	c	co
Plymouth	1016.9	+10	SSW	4	c	61	85	9	8	-	4	7-8	7-8	2500	0	2	cpr₀cy	bcybc	bc	cddd₀d₀
The Lizard	1016.7	+2	SSE	2	c	61	85	8	8	9	-	7-8	7-8	2500	0	3	bcc	bcc	bcc	cFdm
Scilly (St. Mary's)	1016.0	+2	SW	2	c/pr	60	97	8	8	4	3	4-6	7-8	1500	0	2	c	cp₀	cp₀c	cid₀c
Guernsey																				
Pembroke	1015.8	+2	WSW	3	bc	61	75	9	2	7	1	2-3	4-6	2500	0	1	cbcv	bcv	cpr₀	omid₀qc
Holyhead	1013.8	+2	SSW	4	c	59	75	9	1	4	4	Tr	7-8	4000	0	2	cbbc	bcbbc	bcc	crc
Chester (Sealand)	1014.1	+6	NNW	4	bc	63	55	8	2	-	1	4-6	4-6	2500	0	*	bcpr₀	bcy	bcyc	cbcc ir₀
Manchester	1013.9	+10	NW'W	3	bc	65	55	9	1	5	4	Tr	2-3	4000	0	*	cm₀wbcy	bcy	bcyc	cbcr₀r₀
Spurn Head	1012.9	+8	E'N	2	bc	61	85	6	2	-	-	2-3	2-3	2500	0	1	c	bc	bc	o
Catterick	1012.6	+18	WSW	4	bc	66	45	8	8	-	3	2-3	2-3	4000	0		tprPR	cbcy	bcbw	bbccfgw
Tynemouth	1011.9	+20	W	3	bc	67	45	8	2	-	-	4-6	4-6	2500	1	1	cbc	bc	bc	bcc
St. Abbs Head	1010.8	+12	ESE	1	bl	61	75	9	4	6	1	4-6	7-8	2500	0	2	prbc	bcc	cbc	bcc
Leuchars	1010.0	+14	W	4	bc	67	65	9	2	-	-	2-3	2-3	4000	1	*	cyPRcy	cypr₀bcby	bybc	bcm₀c
Renfrew (Abbots I.)	1011.9	+14	SW'W	3	bc	63	55	9	2	6	-	2-3	4-6	4000	0	*	cpr₀bcy	bcy	bccyc	cm₀ir₀r₀
Eskdalemuir	1011.9	+14	SW'W	4	bc/pr	58	75	8	8	-	-	4-6	4-6	1500	1	*	bcpr₀	bcpr	bcc	cid₀
Point of Ayre	1012.9	+4	W'S	3	bc	66	55	8	3	3	5	1	2-3	2500	0	2	bc	bc	bcc	crr
Tiree	1010.8	+18	SW'S	2	c	57	75	8	7	6	3	4-6	7-8	4000	0	2	bc	bcc	cid	corr₀
Stornoway	1010.3	+14	W	3	c	57	65	8	5	7	1	4-6	9+	2500	1	2	cPR	c	c	c
Dalwhinnie	1011.0	+20	SW	2	bc	59	65	8	1	-	-	2-3	2-3	4000	0	*	bc	bc		co
Aberdeen	1010.8	+20	ESE	1	c	56	92	7	9	6	-	4-6	7-8	2500	1	1	tlPRbc	bcctlPR	b,cz₀	cbcb
Wick	1009.6	+8	SE	1	c	55	85	8	8	7	2	2-3	9+	1500	1	1	ertlc	cprc	bcc	c
Lerwick	1008.8	+10	S	2	c	58	85	8	5	3	-	4-6	7-8	1500	0	*	cpr₀	cpr₀c	cifc	cof
Blacksod Point	1012.3	0	S'W	2	c	59	75	8	5	-	-	9+	9+	2500	0	2	bc	c	rr	rr
Malin Head	1011.9	+8	W'N	3	c	58	75	8	1	6	-	2-3	7-8	5700	0	2	bccbcvc	bc	cbc	cRrc
Aldergrove	1012.1	+6	W'S	2	c	61	65	9	8	3	-	9+	9+	2500	1	*	c,pr₀bc	PRq,pr	cpr₀c	ir₀rrm₀c
Birr Castle	1012.6	+2	SW	1	c	66	55	8	-	3	-	0	7-8	-	0	*	cbcy	cy	cpr	c
Valentia Obsy. †	1013.9	-6	S	4	c	60	75	9	2	7	-	2-3	10	2500	0	2	cbvbcv	bcvcv	r₀r₀rr cm₀	ir₀id₀ pr₀
Roches Point	1014.5	0	SSW	3	c	61	75	8	8	3	5	2-3	7-8	1500	1	2	bcc	c	ir₀rr	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.

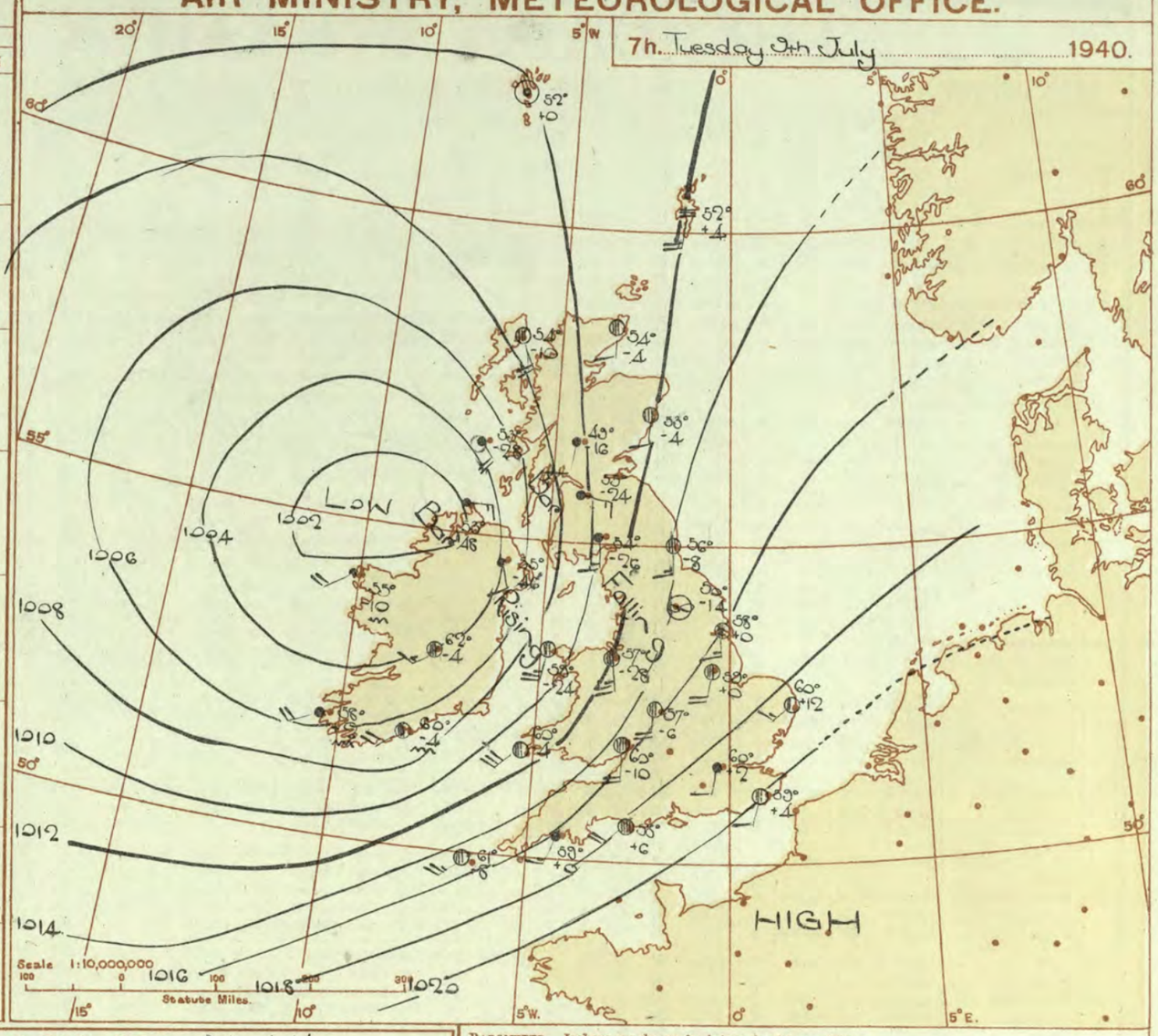
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 8th July			18h. G.M.T.			01h. G.M.T. 9th July			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
10987	01854	26314	86	81846	20387	87	01851	16111	87	02935	12316
11571	01945	20324	87	02844	23427	71	01853	20424	71	01953	14315
203											
20688	01964	23284	34	01954	09324	05	00930	24113	02	51830	00058
2108-	02955	28325	8-	81955	32285	58	02954	00015	52	02961	10127
220--	01954	25304	10	01953	25203				52	63743	23368
23080	00963	18483	74	01963	18314				52	62744	08368
24836	27955	32285	9-	25946	04386	53	00851	24113	57	02862	12126
26020	25855	22385	26	61863	22313	03	02890	00017	52	61854	08168
27796	25846	21386	86	02843	10386	57	02834	12127	62	63735	12668
279											
28520	01844	28514	20	01844	28514				8-	02748	08528
2885-	01864	28295	84	01864	24314	50	00862	16112	57	02765	14217
273 23	01862	20214							43	51644	14468
301--	01863	24313	--	01961	24301						
3218-	05764	26414	10	05763	24313	57	05673	00010	67	05690	14227
29987	02754	00014	80	01754	16214						
29220	01964	26384	26	00862	57313	40	05663	00003			
310--	01631	24414	--	01633	24413				--	81636	20528
3168-	02756	28426	86	01762	22213	05	05690	00013	5-	05687	22317
33384	01954	20314	73	02861	20315				51	21737	18468
334--	01964	22404	--	01871	22464						
34080	10956	27216	80	02855	02285	5-	02866	18286	57	22764	14466
13623	01763	22214	26	01762	22315	50	01763	18113			
336--	02854	28425	--	01863	24413				--	54643	16428
35033	81855	26326	23	01864	26114				63	02724	16327
36856	01853	24413	26	01953	22414						
37980	01754	26314	80	01856	24316				9-	02738	20228
39024	01865	25415	84	02754	24214	00	05690	20110	53	05656	20118
38223	02856	24427	86	02863	24324	40	01862	00002			
438--	02754	26514									
430			33	00851	24513				57	21743	18357
40984	01853	25413	57	02865	18227	5-	05648	17325	62	54527	18458

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 9th July 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. 9th July
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate or fresh SW wind, strong locally on coasts, veering W and moderating; cloudy with slight local rain or drizzle at first, bright intervals later; average temperature.
5 S.W. England 6 South Wales ...	Strong SW wind, gale locally on coasts, veering W and moderating; cloudy with occasional rain or drizzle at first becoming fair; average temperature.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Strong southwesterly wind, gale on coasts, veering west and moderating; cloudy with rain at first, fair later; average temperature.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland	Strong SE wind, gale in exposed places, changing to NW and moderating; rain at first, showers and bright intervals later; average temperature or rather cool.
15 N. E. Scotland 16 Orkneys and Shetlands	SE wind becoming strong to gale changing to NW and moderating; cloudy with rain at times; rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or fresh westerly wind; showers and bright intervals; average temperature.

GENERAL INFERENCE.

A deepening depression north of Ireland is moving northeastwards. Belts of rain associated with this depression will spread northeastwards across the British Isles, rainfall amounts being mainly slight in southern districts. Temperatures will be near the average in the south, and somewhat below average in the north.

FURTHER OUTLOOK.

Rain at times in the north, mainly fair in the south.

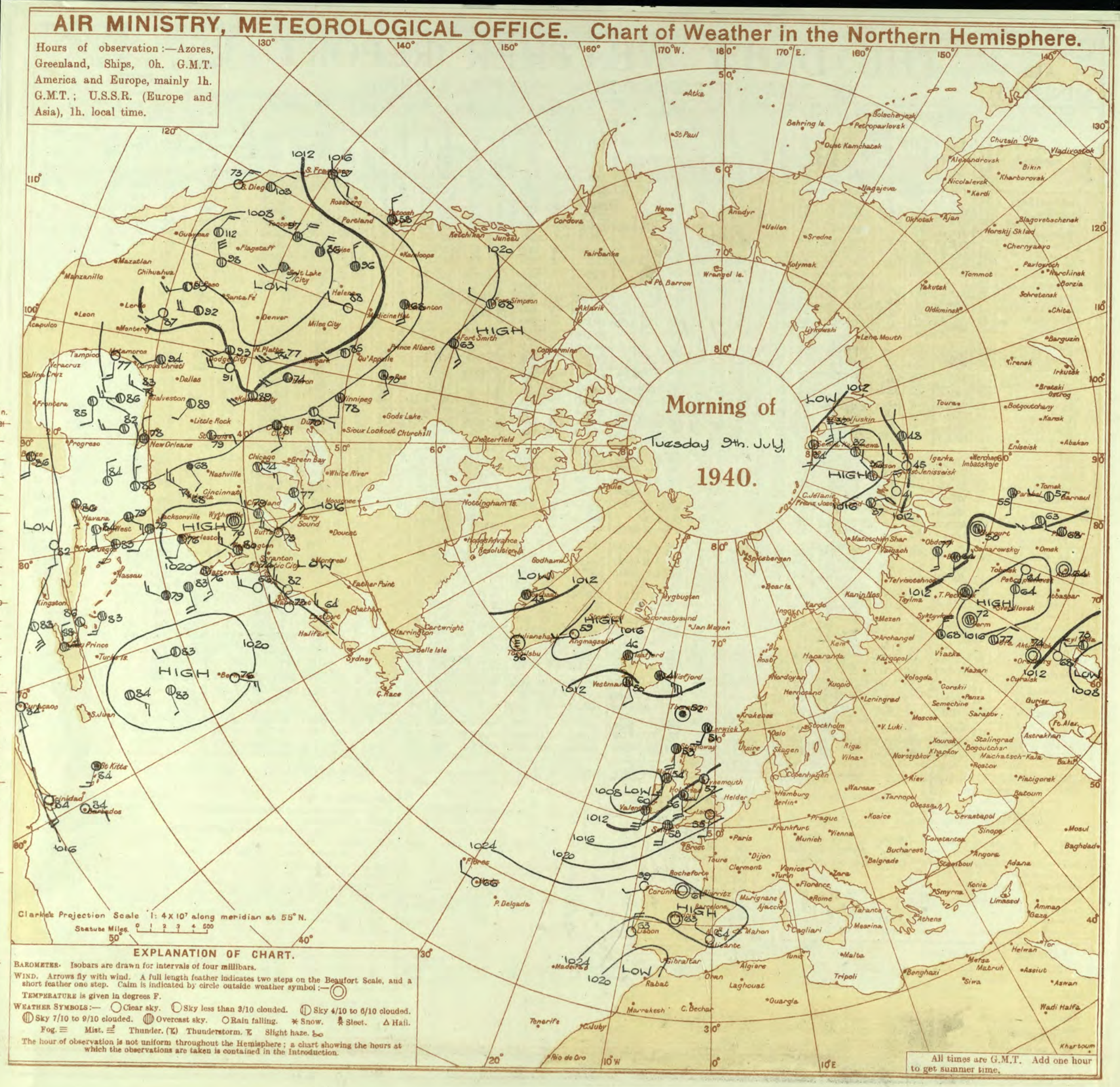
Gale cones hoisted in districts:-
17, 18, 19, 20, at 2255 G.M.T. 8/7
5, 6, 7, 8, 12, at 0500 G.M.T. 9/7
11, 13 A+B, 15, 16, at 0800 G.M.T. 9/7

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.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 9th. July 1940.

No. 28719

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

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	1018·1	+6	SSW	2	b	55	97	7	-	-	-	0	0	-
	S. Farnborough	226	1018·2	+8	S'E	1	b	53	85	7	-	4	-	0	Tr	-
	Boscombe Down	417	1018·0	+6	-	0	b	51	97	8	5	-	-	2-3	2-3	4000
	Calshot (Sthmtn.)	8	1018·0	0	SW	2	bc	57	97	7	-	7	1	0	2-3	-
	Lympne ...	346	1019·2	+8	W'N	2	b	54	92	8	-	-	-	0	0	-
	Manston ...	154	1018·3	+10	WSW	3	b	54	92	7	5	-	-	1	1	5700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1017·6	+10	W'N	3	zo	59	85	6	-	4	-	0	Tr	-
	Gorleston ...	5	1016·8	+8	SW'W	2	b	57	92	7	-	-	-	0	0	-
	Mildenhall ...	19	1016·7	+6	SW'S	3	b	57	85	7	5	-	-	Tr	Tr	5700
	Cranwell ...	240	1016·7	+10	W	2	zo	53	85	6	5	4	1	Tr	1	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1017·4	+4	-	0	b	50	92	7	-	5	-	0	1	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1015·2	-12	SW	4	c	58	92	8	8	-	-	9	9	2500
	Bristol ...	209	1017·1	-2	SSW	2	c	54	85	8	5	3	-	7-8	7-8	4000
	Portland Bill ...	32	1018·3	-4	WSW	3	bc	59	92	8	5	-	-	2-3	2-3	4000
	Plymouth ...	82	1017·3	-6	S	3	c	59	97	6	5	-	-	9+	9+	1500
	The Lizard ...	240	1016·5	-6	SW	4	c	58	97	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	163	1015·7	-10	SW'S	4	ojp	58	92	8	5	-	-	10	10	1500
	Guernsey ...	175														
6	Pembroke ...	142	1013·7	-4	S'W	3	c/pr	58	85	8	8	2	-	7-8	9+	1500
7	Holyhead ...	26	1013·6	-6	S	4	c	56	85	8	8	-	-	9+	9+	2500
	Chester (Sealand)	16	1015·2	-6	ESE	2	c	52	85	7	5	-	-	7-8	7-8	4000
8	Manchester ...	70	1015·6	-2	SSE	2	c	52	85	7	5	3	-	1	9+	4000
10	Spurn Head ...	29	1015·8	+10	SW'W	2	bc	57	75	6	-	4	-	0	2-3	-
	Catterick ...	175	1015·3	+2	-	0	bc	49	92	8	-	4	-	0	2-3	-
	Tynemouth ...	108	1014·4	+8	W	2	bc	56	75	6	2	4	-	2-3	4-6	2500
11	St. Abbs Head	280	1013·0	+8	SW	3	bc	53	75	8	4	4	-	2-3	4-6	2500
	Leuchars ...	36	1012·7	+8	SW	2	bc	53	85	8	4	4	5	Tr	2-3	4000
12	Renfrew (Abbots I.)	19	1012·8	-2	E'S	1	c	53	92	8	5	3	-	7-8	9+	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1013·1	-2	S'W	3	c	56	92	8	8	2	-	9	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1010·8	-4	S	4	c	53	85	7	5	7	-	4-6	7-8	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1011·2	+8	WSW	1	c	48	97	7	5	7	8	7-8	9	1500
16	Lerwick ...	156	1011·0	+4	SW	3	c	51	97	7	5	7	-	7-8	9	800
17	Blacksod Point	18	1007·8	-28	SE	1	RR	55	92	7	6	-	-	10	10	<150
18	Malin Head ...	84	1009·5	-20	SW	3	c/pr	54	85	7	9	-	-	7-8	7-8	4000
	Aldergrove ...	268	1010·9	-14	ESE	1	c	53	85	8	5	-	-	7-8	7-8	4000
19	Birr Castle ...	173	1009·1	-26	SW	1	pr	54	92	7	9	1	-	7-8	10	1500
20	Valentia Obsy.	30	1006·0	-40	SSW	6	zo	60	97	6	6	-	-	10	10	800
	Roches Point	22	1009·4	-38	SSW	6	rr	59	92	6	6	2	-	7-8	10	800

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

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)	1018·7	+6	SSW	3	c	61	85	8	5	-	-	9+	9+	1500	1	*
Croydon ...	1018·4	+2	S'W	2	id.	60	92	7	5	4	4	7-8	9+	800	1	*
S. Farnborough	1018·5	+4	S	2	id.	58	92	6	5	-	-	10	10	450	1	*
Boscombe Down	1017·5	0	S	4	c	59	92	8	5	-	-	9+	9+	800	0	*
Calshot (Sthmtn.)	1018·3	+4	SSW	4	c	60	92	7	5	3	4	9	9+	1500	1	3
Lympne ...	1020·1	+4	S'W	2	c	59	85	8	7	-	-	9	9	1500	0	§3
Manston ...	1019·5	+8	SSW	3	bc	61	85	9	2	3	2	1	2-3	1500	1	*
Shoeburyness ...	1019·3	+12	SSW	3	bc	62	85	8	1	5	4	Tr	2-3	2500	1	*
Felixstowe ...	1018·8	+8	SWW	3	c	62	85	8	1	7	6	Tr	7-8	2500	0	1
Gorleston ...	1018·3	+12	SW	3	bc	60		7	-	7	7	0	4-6	-	1	1
Mildenhall ...	1017·6	+6	SSW	4	c	61	75	8	-	7	3	0	9	-	0	*
Cranwell ...	1016·0	0	S'W	4	c	59	65	8	5	7	6	7-8	9+	4000	0	*
Birmingham ...	1014·9	-6	S	4	c	57	85	8	5	7	-	7-8	9+	800	1	*
Upper Heyford	1017·0	-2	S	3	c	58	92	7	5	7	1	7-8	9+	800	0	*
Ross-on-Wye	1015·2	-10	S'E	4	o	60	85	7	5	-	-	10	10	1500	0	*
Hartland Point	1013·1	-6	SSW	5	d.d.	60	97	6	5	-	-	10	10	1500	1	3
Bristol ...	1015·9	-8	S	3	c	61	92	8	5	3	-	9+	10	800	0	*
Portland Bill ...	1018·0	+6	SW	4	o	58	92	7	5	-	-	10	10	4000	1	3
Plymouth ...	1016·4	0	SSW	3	d.d.	59	97	5	-	2	-	10	10	450	1	2
The Lizard ...	1015·6	-4	SW	3	dd	59	97	4	8	2	-	7-8	9+	1500	1	3
Scilly (St. Mary's)	1014·9	-8	SW	5	c	61	92	7	8	4	9	4-6	9	1500	1	3
Guernsey ...																
Pembroke ...	1011·5	-4	SW'S	6	cq	60	97	6	8	-	-	9+	9+	800	1	3
Holyhead ...	1008·5	-24	SSW	5	c/f	59	97	7	6	2	-	9+	10	800	1	3
Chester (Sealand)	1011·6	-28	SSE	5	c/r	57	75	7	5	-	3	7-8	9+	2500	0	*
Manchester ...	1012·8	-18	SSE	4	r.o.	57	75	7	5	7	-	7-8	9+	2500	1	*
Spurn Head ...	1013·5	0	S'E	3	c	58	85	6	-	2	-	0	10	-	0	2
Catterick ...	1013·3	-14	-	0	zo	50	92	5	5	-	-	10	10	2500	0	*
Tynemouth ...	1014·1	-8	S	3	c	56	85	6	5	-	-	9+	9+	2500	1	1
St. Abbs Head	1011·5	-6	S	3	c	55	75	9	5	7	-	7-8	10	2500	0	2
Leuchars ...	1011·8	-10	ESE	2	c	56	85	7	5	7	-	4-6	10	2500	0	*
Renfrew (Abbots I.)	1008·8	-24	ESE	3	r.o.	55	92	6	5	7	-	4-6	9+	2500	1	*
Eskdalemuir ...	1010·1	-26	SSE	3	id.	54	85	7	5	7	-	1	10	1500	1	*
Point of Ayre ...	1007·6	-40	S'E	6	DD	55	97	6	6	2	-	9	10	1500	1	3
Tiree	1005·6	-28	SE'E	4	rr	53	97	7	-	2	-	10	10	1500	1	3
Stornoway ...	1005·5	-10	SE	4	c	54	85	8	5	1	-	4-6	10	2500	1	2
Dalwhinnie ...	1010·0	-16	SSW	2	ir.	49	85	7	5	2	-	4-6	10	1500	1	*
Aberdeen ...	1011·5	-4	S	2	c	53	85	6	5	7	-	Tr	9+	4000	1	1
Wick ...	1010·5	-4	S	2	c	54	85	8	8	7	3	4-6	7-8	1500	1	1
Lerwick ...	1012·0	+4	S'W	4	f	52	97	3	-	-	-	10	10	<150	0	*
Blacksod Point	1002·3	-10	SW'W	4	rr	55	97	7	6	-	-	10	10	<150	1	4
Malin Head ...	1001·9	-48	E	3	RR	53	92	6	5	-	-	9+	9+	800	1	2
Aldergrove ...	1003·2	-46	SE'S	4	r.r.	55	97	6	6	2	-	9+	10	800	1	*
Birr Castle ...	1003·7	-4	SW	3	c	62	85	8	8	8	-	4-6	7-8	1500	0	*
Valentia Obsy.	1004·5	+2	SW'W	4	pr	58	97	6	6	-	-	10	10	800	1	4
Roches Point	1006·4	-4	SW	5	c/r	60	97	7	6	2	-	7-8	9	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 Hrs. (36)
London (Kew)	71	52	40	Tr	-	8·4
Croydon ...	71	51	48	Tr	Tr	6·2
S. Farnborough	72	51	42	0·6	Tr	5·5
Boscombe Down	71	50	41	-	Tr	12·4
Calshot (Sthmtn.)	70	55	51	Tr	0·6	10·0
Lympne ...	70	50	42	0·1	-	7·0
Manston ...	70	51	47	0·1	0·2	4·5
Shoeburyness ...	73	55	44	2	-	5·5
Felixstowe ...	71	55	49	0·3	-	5·0
Gorleston ...	65	53	50	3	2	*
Mildenhall ...	72	52	42	Tr	-	7·3
Cranwell ...	73	49	45	Tr	-	10·2
Birmingham ...	*	52	39	6	-	10·7
Upper Heyford	73	47	39	Tr	-	*
Ross-on-Wye	70	52	43	Tr	-	6·7
Hartland Point	64	56	53	-	0·2	11·2
Bristol ...	68	50	41	Tr	-	14·8
Portland Bill ...	60	57	*	-	-	*
Plymouth ...	65	58	56	0·3	0·2	8·1
The Lizard ...	66	57	*	-	Tr	7·7
Scilly (St. Mary's)	66	57	*	0·4	0·3	7·1
Guernsey ...						
Pembroke ...	62	57	*	-	Tr	10·4
Holyhead ...	63	56	53	-	2	11·9
Chester (Sealand)	65	52	46	Tr	Tr	13·1
Manchester ...	68	49	45	-	Tr	12·2
Spurn Head ...	70	53	*	1	-	10·2
Catterick ...	70	44	40	0·5	-	3·2
Tynemouth ...	69	53	50	-	-	*
St. Abbs Head	65	51	*	Tr	-	*
Leuchars ...	70	50	43	0·1	-	14·9
Renfrew (Abbots I.)	67	51	47	Tr	2	10·6
Eskdalemuir ...	64	48	45	2	Tr	6·3
Point of Ayre ...	69	52	*	-	0·6	3·5
Tiree	61	50	*	-	2	11·4
Stornoway ...	61	52	*	3	-	6·8
Dalwhinnie ...	62	44	34	1	Tr	11·1
Aberdeen ...	64	47	43	8	-	5·6
Wick ...	60	46	*	6	-	*
Lerwick ...	59	51	*	Tr	-	*
Blacksod Point	72	51	*	-	13	*
Malin Head ...	60	51	*	-	10	11·3
Aldergrove ...	66	52	50	1	3	7·0
Birr Castle ...	68	54	52	Tr	1	10·8
Valentia Obsy.	64	56	55	-	6	9·4
Roches Point	64	59	*	-	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.	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	bcpry	cybcy	cbcy	71	52	40	Tr	-	8·4	•	•	8
Croydon	217	cbcy	eybc	bw, id.	71	51	48	Tr	Tr	6·2	•	•	8
Greenwich (Royal Observatory)...	149	bcvy	bcvcy	cbc	73	50	39	-	-	9·1	46	73	8
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	71	54	47	Tr	-		63	81	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	71	54	47	-	-		49	77	•
Camden Square	110	bc	bc	•	73	54	48	-	Tr	•	•	73	•
Kensington	80	bcpbc	bc	•	73	53	45	Tr	-		45	76	•
Hampstead Observatory	450	bcp	bc	bc	71	53	45	0·1	-		•	89	•

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	7-9h 8th	<0·1	Rest of period.

FOREIGN OBSERVATIONS.

18h. G.M.T. 8th. July — 7h. G.M.T. 9th. July

Stations	18h. Barom. mb.	18h. Wind Direc.	18h. Wind Force	18h. Weather.	18h. Temp. °F.	7h. Barom. mb.	7h. Wind Direc.	7h. Wind Force	7h. Weather.	7h. Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Past 24 Hours Rainfall Day mm.	Past 24 Hours 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 ,,	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.

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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

Wednesday 10th July, 1940.

No. 28,720.

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1018·4	0	S'W	5	c	68	65	8	8	3	1	7·8	9	2500
	Croydon	1018·2	+2	S'W	3	c	68	75	8	5	-	1	9+	9+	2500
	S. Farnborough	1018·6	+2	SSW	5	c	66	75	8	5	-	-	9+	9+	1500
	Boscombe Down	1017·7	+4	SSW	5	c/r	63	85	8	5	-	-	9+	9+	1500
	Calshot (Soton.)	1018·8	+2	SW'S	6	c/d	65	85	6	5	-	-	9+	9+	1500
	Lympne	1020·2	-2	SW	4	c	64	85	8	5	-	-	9+	9+	1500
	Manston	1020·0	0	SSW	4	c	66	75	7	2	-	6	7·8	9	1500
2	Shoeburyness	1019·1	-4	SSW	4	c	70	65	8	5	-	6	7·8	9	2500
	Felixstowe	1018·8	-2	S'W	4	c	69	75	8	1	7	6	2·3	7·8	1500
	Gorleston	1018·0	0	S	5	c	66	65	7	8	-	-	7·8	7·8	4000
	Mildenhall	1017·1	-2	SSW	5	c	70	65	8	7	3	-	7·8	7·8	2500
	Cranwell	1015·2	+4	S'W	5	ir₀	68	85	7	8	-	-	9+	9+	2500
3	Birmingham	1014·3	-2	SW	4	c/pr	65	75	8	5	7	-	7·8	9+	1500
	Upper Heyford	1016·6	+2	SSW	4	c	67	75	9	5	2	-	9	9+	800
4	Ross-on-Wye	1014·5	0	S	5	cq	69	75	8	9	-	-	7·8	7·8	2500
5	Hartland Point	1014·1	+2	SW	3	id	62	85	8	5	4	-	7·8	9	1500
	Bristol	1016·3	+2	S	4	c	65	85	8	5	-	-	9+	9+	800
	Portland Bill	1018·8	+2	SW	4	o	61	92	7	5	-	-	10	10	2500
	Plymouth	1016·9	+2	S	4	zo	62	92	6	5	-	-	10	10	450
	The Lizard	1016·5	+2	SW	5	PR	61	92	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	1014·1	+4	SSW	5	c	65	85	6	8	7	-	7·8	9+	1500
	Guernsey														
6	Pembroke	1011·5	-2	SW'S	6	cq	62	85	6	8	7	1	4·6	7·8	1500
7	Holyhead	1008·6	+4	SSW	6	c/d	61	92	6	5	-	-	9+	9+	4000
	Chester (Sealand)	1011·5	+4	SSW	4	c	70	85	8	7	7	8	4·6	9	2500
8	Manchester	1012·0	0	S'W	5	c	67	75	7	8	7	-	9	9+	800
10	Spurn Head	1013·9	-6	S'E	6	c	70	65	6	2	-	-	9+	9+	2500
	Catterick	1010·4	-14	S	4	zo	68	75	6	5	-	-	9+	9+	1500
	Tynemouth	1010·9	-6	S	4	c	64	85	6	8	-	-	9	9	2500
11	St. Abbs Head	1007·0	-14	SSE	7	cq	62	75	8	5	2	-	7·8	10	2500
	Leuchars	1005·5	-26	SE	4	ir₀	59	85	7	5	2	-	9	10	1500
12	Renfrew (Abbots I.)	1003·5	-20	SSW	5	c	67	65	7	5	7	-	4·6	9+	1500
	Eskdalemuir	1006·3	-14	SSW	7	rr	58	97	5	-	2	-	10	10	450
	Point of Ayre	1007·2	+4	SW	6	c	62	92	7	8	1	-	2·3	9+	1600
13A	Tiree	1007·4	-16	SW'S	6	c	65	97	7	5	3	-	2·3	7·8	1500
13B	Stornoway	1004·0	-32	E	5	rr	68	97	6	5	2	-	7·8	10	1500
15	Dalwhinnie	1004·0	-28	SE	5	ir₀	53	97	6	5	2	-	4·6	10	800
	Aberdeen	1007·1	-26	S'E	4	rr	55	92	6	6	2	-	4·6	10	1500
	Wick	1007·1	-2	SE	4	c/r	54	92	7	5	2	-	4·6	10	1500
16	Lerwick	1011·5	-12	SSE	4	c	56	92	7	5	7	-	7·8	10	1500
17	Blacksod Point	1007·0	+20	W	3	c	58	85	8	5	-	-	7·8	7·8	1500
18	Malin Head	1003·4	+52	W	5	c	56	75	8	6	7	-	4·6	9	4000
	Aldergrove	1003·9	+22	SW'W	4	c/pr	61	85	9	8	-	-	9+	9+	1500
19	Birr Castle	1007·1	+18	WSW	2	c/pr	60	85	8	8	1	-	7·8	10	1500
20	Valentia Obsy. †	1008·9	+18	W'S	3	c	57	85	9	5	-	-	9	9	4000
	Roches Point	1008·5	+6	SSW	4	ro₀	58	92	8	6	2	-	7·8	9+	1500

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

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)	1017·9	-2	SW'S	3	c	66	75	8	5	2	-	9	9+	1500	1	*
	Croydon	1018·0	-6	SW	3	c	66	85	8	5	3	-	9	9+	1500	0	*
	S. Farnborough	1018·0	-4	SSW	4	c	65	75	8	5	-	-	9+	9+	1500	0	*
	Boscombe Down	1017·2	-2	SSW	4	c	64	85	8	5	-	-	9	10	2500	0	*
	Calshot (Soton.)	1018·0	-6	SW'S	4	c	65	85	7	5	-	-	9+	9+	1500	0	2
	Lympne	1019·7	-8	SW	3	bc	66	75	8	1	7	-	2·3	4·6	1500	0	§2
	Manston	1019·1	-8	SW'S	4	c	68	75	9	5	3	6	2·3	7·8	1500	0	*
2	Shoeburyness	1018·9	-2	SSW	4	c	66	75	8	8	6	2	7·8	9+	2500	0	*
	Felixstowe	1018·0	-4	SW	4	c	68	65	8	5	-	-	9+	9+	2500	0	2
	Gorleston	1017·2	-4	S	4	bc	67	75	7	2	5	-	1	4·6	2500	0	4
	Mildenhall	1016·4	-2	SSW	4	c	70	65	8	8	7	-	7·8	9+	2500	0	*
	Cranwell	1014·0	-2	S'W	5	c	72	65	8	1	3	-	4·6	7·8	2500	0	*
3	Birmingham	1013·9	-2	SSW	4	c	68	65	8	7	7	-	2·3	7·8	2500	1	*
	Upper Heyford	1016·2	0	SSW	4	ir₀	65	75	8	5	2	-	9	9+	1500	0	*
4	Ross-on-Wye	1014·3	0	S'W	5	cq	66	75	7	8	4	8	4·6	7·8	2500	0	*
5	Hartland Point	1012·7	-6	WSW	5	c	63	85	7	6	2	-	4·6	9+	1500	0	3
	Bristol	1016·2	0	S	3	ir	61	97	7	6	2	-	9	10	800	1	*
	Portland Bill	1017·8	-8	S	4	c	60	92	7	5	7	-	4·6	9	4000	1	3
	Plymouth	1015·6	-10	S	5	rr	60	97	5	-	2	-	10	10	2150	1	3
	The Lizard	1014·7	-10	SSW	5	rr	59	97	6	5	-	-	10	10	1500	1	4
	Scilly (St. Mary's)	1012·5	-14	S'W	5	c/p	62	92	6	8	2	-	7·8	10	1500	0	3
	Guernsey																
6	Pembroke	1011·2	-2	W'S	6	rr	57	97	5	5	-	-	10	10	450	1	4
7	Holyhead	1009·5	+6	SW	4	c	59	92	7	5	-	-	9+	9+	2500	1	3
	Chester (Sealand)	1011·2	+2	SSW	5	c	69	55	8	7	7	1	7·8	7·8	2500	0	*
8	Manchester	1011·5	+2	SSW	4	c	69	65	7	8	-	-	9+	9+	2500	0	*
10	Spurn Head	1013·1	-4	S'E	6	bc	69	85	6	2	-	-	2·3	2·3	2500	0	4
	Catterick	1009·8	-4	SW	6	c	70	65	7	5	-	-	7·8	7·8	4000	1	
	Tynemouth	1009·8	-2	SW	5	c	68	65	6	8	-	-	7·8	7·8	2500	1	1
11	St. Abbs Head	1007·2	+4	S	5	rr	62	75	8	8	6	-	7·8	10	1500	1	3
	Leuchars	1006·2	+14	SW	4	ir₀	60	92	7	5	2	-	9	10	800	1	*
12	Renfrew (Abbots I.)	1006·9	+18	W'S	3	c/r	58	75	9	5	7	-	9	9+	4000	1	*
	Eskdalemuir	1007·5	+6	SW'S	5	ir	57	92	6	6	-	-	10	10	450	1	*
	Point of Ayre	1008·2	+4	SW	4	rr	59	97	7	9	2	-	4·6	10	1500	1	3
13A	Tiree	999·1	-6	SW	6	c	55	92	8	8	-	1	7·8	9	1500	1	3
13B	Stornoway	*	+20	S	3	bc	57	75	8	2	7	1	4·6	4·6	1500	1	*
15	Dalwhinnie	1005·5	0	SSW	4	c/r	59	92	6	8	7	-	7·8	9+	1500	1	2
	Aberdeen	1001·4	-32	SSE	5	c	57	92	6	5	7	9	4·6	9+	1500	1	3
	Wick	1008·2	-14	E'S	5	ir	55	97	6	8	2	-	7·8	10	800	1	*
16	Lerwick																
17	Blacksod Point	1009·0	+8	W'N	3	bc	58	75	9	3	6	-	2·3	4·6	1500	0	3
18	Malin Head	1006·8	+20	N	4	c	57	65	8	1	6	2	2·3	7·8	5700	0	2
	Aldergrove	1007·6	+18	WSW	2	c/pr	59	75	9	8	2	-	2·3	9+	2500	1	*
19	Birr Castle	1008·9	+4	WSW	1	c	60	75	8	8	1	-	7·8	9+	1500	0	*
20	Valentia Obsy. †	1010·6	+6	NW	4	c	58	75	9	8	3	-	7·8	7·8	4000	1	3
	Roches Point	1009·1	+2	W	3	PR	58	85	7	3	-	-	9	9	1500	1	3

PAST 24 HOURS.

District	Stations.	Weather. 7h.–18h. 9th (37)	13h.–18h. 9th (38)	18h. 9th to 1h. 10th (39)	1h.–7h. 10th (40)
1	London (Kew)	cidoc	c	c	cproc
	Croydon	idocbcc	cv	c	cv
	S. Farnborough	dobcc	croc	cbc	cbcc
	Boscombe Down	c,cidr	c	c	ciro
	Calshot (Soton.)	cid	c	cbc	c
	Lympne	cbcc	cbc	bcc	c
	Manston	bcc	cbcc	cbcc	ciroido
2	Shoeburyness	bcc	c	cbc	bcc
	Felixstowe	bccbcvo	c	cbcw	bcwc
	Gorleston	bccq	cbcq	bcc	coiro
	Mildenhall	cbcc	c	cirocirₒ	cirocrorₒ
	Cranwell	cirₒ	ircycbc	bcₒrorₒmₒ	ciroidoc
3	Birmingham	cpro	cbc	bcor	oirro
	Upper Heyford	c	cproir₀	cirocrorₒc	c
4	Ross-on-Wye	ocepc	cqbcq	cqr	opor
5	Hartland Point	cid	cid	crorr	ro rrc
	Bristol	cido	crorir	crorRro	crorro
	Portland Bill	cpro	c	corr	c
	Plymouth	dodocmo	cmorₒrrr	rorₒrr	rrdorₒro
	The Lizard	cpr	crr	prrrm	c
	Scilly (St. Mary's)	cidoc	c	crrir	c
	Guernsey				
6	Pembroke	procq	cqmorro	crro	c
7	Holyhead	cdomoc	crmorₒc	crorₒmₒc	crorₒmₒc
	Chester (Sealand)	cidirₒzq	cirocy	rrRR mₒ	RRrrm
8	Manchester	crorₒcdo	ccyc	cmprorr	cmrorₒRR
10	Spurn Head	c	bc	opro	o
	Catterick	₀rₒrrmₒ	cmocyc	ciRmₒ	oiRorₒrₒ
	Tynemouth	cpc	cpc		cpoir
11	St. Abbs Head	cmorq	rrcq	rrc	crr
	Leuchars	ororₒmₒrₒ	rₒrₒciRcir	cirₒrₒrₒc	cmoc
12	Renfrew (Abbots I.)	cmqrorₒ	ciRirir	cirₒcbc	bcwcm
	Eskdalemuir	oddrr	orcir	irₒOrorc	ccro
	Point of Ayre	cdcc	crr	c	c
13A	Tiree	RRc		bc	bc
13B	Stornoway	crr	cRR	cpr	cpr
15	Dalwhinnie	₀ir₀	ir	•	bc
	Aberdeen	rₒcrr	cirₒc	c	c
	Wick	crorc	rrmₒc	mₒcbc	bc
16	Lerwick	offc	cproir	cir	cbc
17	Blacksod Point	c	bc	bc	bc
18	Malin Head	cproc	c	cbc	bc
	Aldergrove	mₒrₒrₒPR	cproc	cprcbc	bcfgc
19	Birr Castle	cpr	c	bcb	bc
20	Valentia Obsy.	cproc	c	cbcbbcw	bcwcprₒbc
	Roches Point	rₒrₒ		cbc	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.

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.*

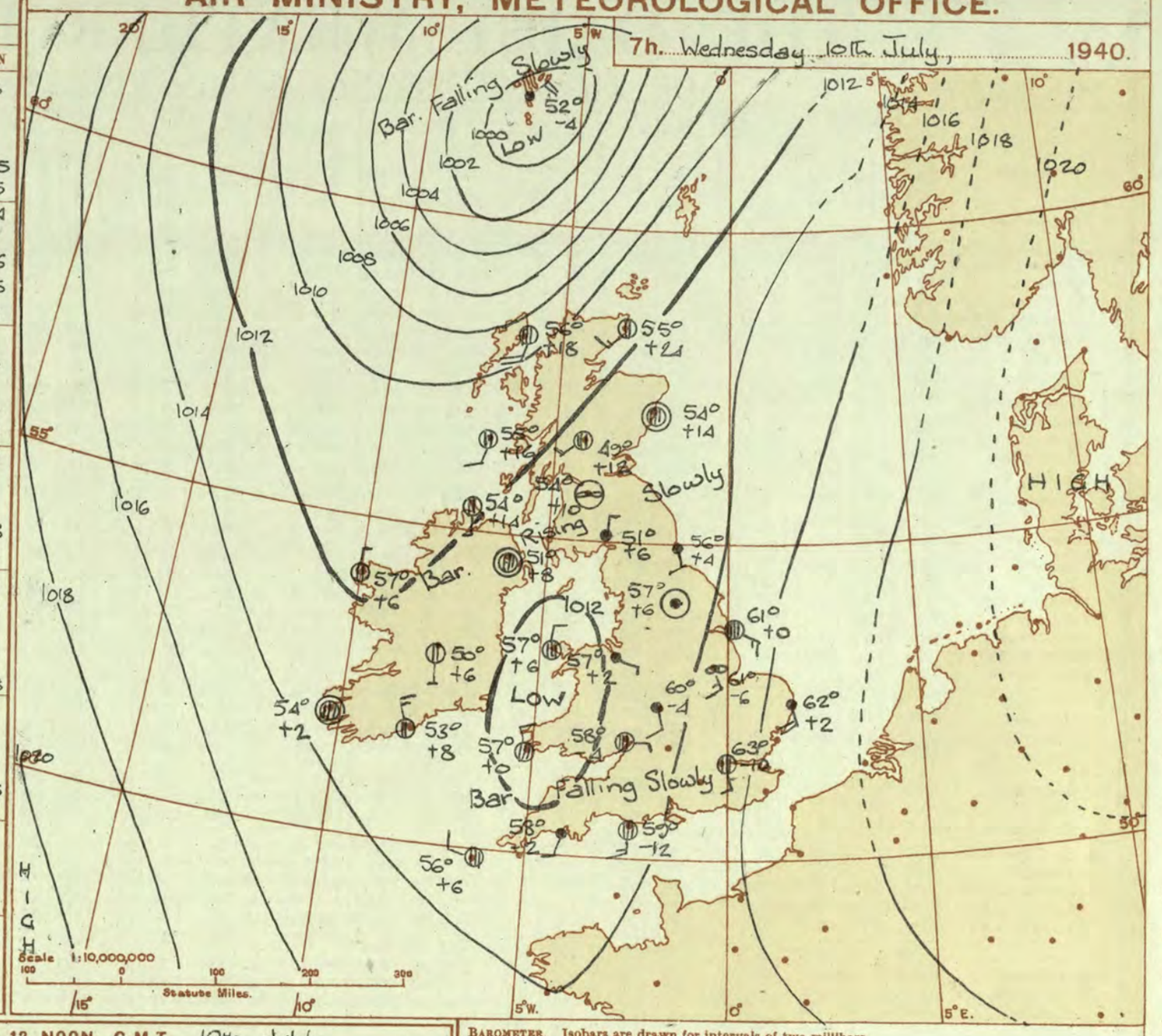
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 10th July, 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 9th July			18h. G.M.T.			01h. G.M.T. 10th July			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	61751	12328	57	05634	12567	47	01843	23413	73	01851	17513
115	52	62734	11568	82	02744	12667	82	81734	20785			
203												
206				83	01962	51564				90	25601	50255
210	5-	22847	45668	83	02054	51527	53	01962	24324	-3	01920	18215
220	62	66635	11368	53	25843	27586				13	01953	24404
230	62	22746	14468	8-	25847	18487	46	02853	00016	84	61944	08114
245	52	61546	16768	81	25845	18567	5-	02867	18127	57	02865	28226
260	62	64634	17468				5-	01775	20115	57	02765	00015
277	57	02753	17667	62	62727	20368	5-	02867	00067	57	02964	30156
279												
285										56	64538	12368
288	57	02754	16466	5-	02865	18526						
273	33	81655	17816							00	00890	17100
301	--	02843	51567							--	64548	13268
321	73	02764	50515	73	01763	53514	52	61646	18468	57	05665	14227
299	57	05645	16417	80	01744	18514	5-	64648	20368			
292	5-	05647	18467	8-	02847	51427	57	02755	16287			
310										--	63628	20468
316	5-	02747	18427	76	01853	53214				62	51537	14268
333	62	02745	18728	62	62745	55467				57	02835	22127
334	--	61857	16528							--	61854	22168
340	8-	02847	18467	8-	25856	20386	62	62746	16468			
136	74	01754	20525	46	02854	18516	52	61644	17365	52	81754	13487
336	--	22644	16468	--	25855	20587				--	62842	20468
350	5-	02857	16427	52	02845	16527				57	61765	14267
368	57	22856	10467	57	02855	18325	52	05637	16228	6-	62638	16168
379	5-	02735	50425	5-	02747	16427	62	22646	20368	53	02726	18328
390	5-	02755	18426	5-	02756	20316				87	81654	15225
382	5-	02847	18427	8-	02848	18428	53	61754	13225	57	22846	12268
438	5-	49617	20547							68	02855	18415
430	8-	21848	20458	5-	02856	16327	5-	02767	12227	57	02862	16227
409	5-	51837	50657	5-	62638	20558	5-	62518	17268	87	02843	17267

III = Index Number of Station—See M.O. 252 of 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. 10th July
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light southerly wind becoming variable; cloudy, thunderstorms and thundery rains developing; warm and very close.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Light variable to northwesterly wind; dull, rain at times at first in most districts, fair conditions spreading very slowly eastwards; close.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light variable wind; cloudy or dull, rain at times with some thunder more particularly tomorrow; close.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland.	Wind mainly southwest, light to moderate; mainly fair apart from local showers; rather cool.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Wind mainly southwest to south, light; fair at first, then cloudy, with occasional rain, chance of local thunder later; average temperature, rather close.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind north to northwest; mainly fair apart from a few scattered showers; temperatures rather below average.

GENERAL INFERENCE.

Pressure is high to eastward of the British Isles. A depression near the Faeroes is moving north, and a secondary centre over Wales will move north-northeast. It is expected that another shallow depression will move up from France.

There will be thundery rains in many parts of England and SE Scotland. Weather will be mainly fair in Ireland and NW Scotland and these conditions will spread to western districts of England by tomorrow.

FURTHER OUTLOOK.

Probably a rather warm and thundery type of weather.

Forecasts issued at

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3502. m. 8048. 0. 3705. G. 948 (3803.E/40)

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 10th July, 1940.

No 28,720.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1016·6	−14	S'E	2	C	61	97	7	5	7	-	4-6	10	2500
	S. Farnborough	226	1015·7	−18	SE	3	C	61	92	7	5	3	-	4-6	7-8	4000
	Boscombe Down	417	1015·3	−14	SE'S	3	C	59	97	7	5	-	-	7-8	7-8	2500
	Calshot (Sthmtn.)	8	1015·6	−16	SSE	2	ir.	63	92	7	5	-	-	10	10	4000
	Lympne ...	346	1018·0	−16	E'S	3	C	60	85	8	5	-	-	9	9	2500
	Manston ...	154	1018·2	−12	SE	3	C	61	85	7	5	3	1	7-8	9	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1017·7	−10	S	2	bc	63	85	7	5	7	-	1	4-6	4000
	Gorleston ...	5	1017·8	−4	S	3	C	62	85	6	5	-	-	7-8	7-8	2500
	Mildenhall ...	19	1016·6	−6	S'E	3	ir.	63	85	7	5	1	-	4-6	9+	1500
	Cranwell ...	240	1015·3	−2	SSW	3	ir.	61	92	6	6	7	-	9	10	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1015·7	−8	S	3	c/r	60	97	7	5	2	-	4-6	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012·0	−6	SW	4	r.r.	58	97	6	6	2	-	7-8	9+	1500
	Bristol ...	209	1014·0	−14	S	4	c/r	60	97	7	6	7	-	4-6	9+	800
	Portland Bill ...	32	1014·6	−20	S	3	rr	58	92	7	5	-	-	10	10	4000
	Plymouth ...	82	1013·5	−18	S	5	rr	59	97	5	-	2	-	10	10	220
	The Lizard ...	240	1013·7	−8	WSW	2	r.r.	57	97	5	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1012·2	−8	WSW	2	c/r	57	97	7	6	2	-	7-8	10	800
	Guernsey ...	175														
6	Pembroke ...	142	1011·3	0	SSW	4	rr	58	97	6	8	-	-	10	10	450
7	Holyhead ...	26	1010·9	+2	S	3	r.r.	57	97	6	6	2	-	9	10	800
	Chester (Sealand)	16	1012·1	−2	SE'S	1	rr	58	92	6	6	2	-	9	10	2500
8	Manchester ...	70	1012·3	−2	S	3	rr	61	92	6	6	2	-	9	10	800
10	Spurn Head ...	29	1014·6	0	S'E	4	ir.	61	92	5	5	-	-	10	10	800
	Catterick ...	175	1012·4	+4	-	0	iR	58	92	6	6	2	-	9+	10	1500
	Tynemouth ...	108														
11	St. Abbs Head	280	1010·9	+12	W	2	C	54	85	8	8	2	-	7-8	9+	1500
	Leuchars ...	36	1010·3	+14	WSW	3	z.	54	92	6	5	2	-	7-8	10	1500
12	Renfrew (Abbots I.)	19	1011·2	+14	-	0	bc	49	92	5	5	-	-	4-6	4-6	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1011·0	+8	-	0	C	55	97	8	5	2	-	4-6	9+	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005·2	+20	SSW	5	C	51	85	7	8	7	-	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1007·1	+26	WSW	3	bc	52	75	8	5	4	1	2-3	2-3	1500
16	Lerwick ...	156	1006·6	+20	S	5	C	54	92	7	5	7	-	7-8	9	1500
17	Blacksod Point	18	1011·0	+2	W	1	b	52	85	9	3	-	-	1	1	4000
18	Malin Head ...	84	1010·4	+12	S	3	bc	49	85	8	4	-	-	2-3	2-3	5700
	Aldergrove ...	268	1010·9	+6	-	0	bc	51	92	8	8	-	1	4-6	4-6	2500
19	Birr Castle ...	173	1011·8	+6	WNW	1	b	49	92	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1012·9	+2	-	0	bc	48	92	9	2	-	-	2-3	2-3	2500
	Roches Point	22	1012·2	+8	NW	3	bc	55	92	8	8	-	-	4-6	4-6	2500

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

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)	1014·5	−8	SSE	2	c/pr	65	85	8	5	9	2	4-6	9+	2500	1	*
	Croydon ...	1014·9	−10	S'E	1	C	63	92	8	5	9	5	Tr	9+	2500	0	*
	S. Farnborough	1013·9	−10	SE	2	C	63	85	7	7	3	-	7-8	9+	2500	0	*
	Boscombe Down	1013·7	−6	SSW	3	ir	60	97	7	6	-	-	10	10	450	1	*
	Calshot (Sthmtn.)	1013·7	−10	SW'S	2	pr	64	85	7	8	7	-	9	10	1500	0	2
	Lympne ...	1016·4	−6	SE'E	2	C	62	85	8	8	7	-	2-3	9+	4000	0	*
	Manston ...	1015·7	−6	SSE	3	C	65	85	8	5	7	-	7-8	9+	5700	0	*
2	Shoeburyness ...	1015·5	−8	S'E	3	C	65	85	8	5	7	-	2-3	10	7200	0	*
	Felixstowe ...	1015·6	−8	SSE	4	C	64	85	8	5	7	8	4-6	9+	4000	0	2
	Gorleston ...	1016·9	+2	SSE	4	ir.	62	92	7	6	-	-	10	10	2500	1	3
	Mildenhall ...	1014·8	−6	SE	3	c/r	64	85	8	8	8	-	4-6	9+	2500	0	*
	Cranwell ...	1014·1	−6	SSE	3	z.	61	92	6	5	7	-	9	10	800	1	*
3	Birmingham ...	1013·0	−4	SSE	2	ir.	60	92	7	6	7	-	9+	10	450	1	*
	Upper Heyford	1014·3	−6	SE	2	ir.	62	92	7	5	7	-	7-8	9+	800	1	*
4	Ross-on-Wye	1012·8	−4	E	1	c/r	58	97	8	6	-	-	10	10	2500	1	*
5	Hartland Point	1011·8	+2	SW	3	C	57	92	8	8	6	-	4-6	9	1500	1	2
	Bristol ...	1013·1	−2	S	2	ir.	58	92	8	5	7	-	9+	10	1500	1	*
	Portland Bill ...	1013·2	−12	S	3	C	59	92	8	5	2	-	7-8	10	2500	1	3
	Plymouth ...	1012·8	−2	SSW	1	r.r.	58	97	6	6	2	-	4-6	10	220	1	1
	The Lizard ...	1012·8	−8	S	2	C	57	97	8	8	2	-	9	10	1500	1	3
	Scilly (St. Mary's)	1012·6	+6	W'N	2	C	56	97	8	8	4	4	4-6	7-8	2500	1	2
6	Pembroke ...	1011·8	0	NNW	2	C	57	92	7	8	7	-	4-6	9	1500	1	2
7	Holyhead ...	1011·2	+6	N'E	1	C	57	97	7	5	3	-	9+	9+	2500	1	2
	Chester (Sealand)	1012·2	+2	ESE	1	r.r.	57	97	5	-	2	-	10	10	2500	1	*
8	Manchester ...	1012·6	+4	SE'E	2	c/r	57	97	6	6	2	-	7-8	10	800	1	*
10	Spurn Head ...	1014·3	0	SE	3	C	61	92	6	5	-	-	10	10	1500	1	3
	Catterick ...	1012·9	+6	-	0	rr	57	97	7	6	-	-	10	10	450	1	*
	Tynemouth ...	1013·1	+4	SSE	2	ir	56	97	5	-	2	-	10	10	1500	1	1
11	St. Abbs Head	1013·0	+12	NNW	1	r.r.	53	97	8	5	2	-	7-8	10	2500	1	1
	Leuchars ...	1013·0	+16	WNW	2	C	54	85	8	5	7	-	4-6	9+	4000	1	*
12	Renfrew (Abbots I.)	1013·3	+10	-	0	z.	54	85	6	1	3	6	Tr	7-8	4000	1	*
	Eskdalemuir ...	1012·8	+6	N'E	1	r.r.	51	92	7	6	-	-	10	10	800	1	
	Point of Ayre ...	1012·2	+4	ENE	2	C	57	97	8	5	1	-	4-6	10	1500	1	2
13A	Tiree ...	1011·4	+16	SSW	2	bc	55	85	8	8	-	-	2-3	2-3	2500	0	3
13B	Stornoway ...	1009·7	+18	SSW	4	c/pr	56	85	8	8	6	-	7-8	7-8	1500	1	2
15	Dalwhinnie ...	*	+12	SW	1	C	49	85	8	1	-	2	1	7-8	1500	1	*
	Aberdeen ...	1013·3	+14	-	0	C	54	85	8	5	7	-	1	7-8	4000	1	1
	Wick ...	1011·5	+24	SW	3	bc	55	85	8	4	4	2	1	2-3	4000	1	2
16	Lerwick ...	1010·6	+20	SW	5	bc	54	85	8	5	7	-	4-6	4-6	1500	0	*
17	Blacksod Point	1011·7	+6	N	1	bc	57	75	8	3	-	-	2-3	2-3	4000	0	2
18	Malin Head ...	1011·7	+14	S	1	bc	54	85	8	4	-	1	2-3	4-6	5700	0	0
	Aldergrove ...	1012·6	+8	-	0	C	51	92	8	7	7	2	4-6	7-8	2500	1	*
19	Birr Castle ...	1013·1	+6	S	1	bc	50	92	8	5	-	1	2-3	2-3	2500	0	*
20	Valentia Obsy.	1013·5	+2	-	0	bc	54	92	9	2	-	1	2-3	2-3	2500	1	3
	Roches Point	1013·4	+8	NW'N	3	bc	53	85	8	2	-	5	1	4-6	2500	1	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F.	Temperature Min. Night 18h–7h °F	Min. on Grass °F.	Rainfall Day 7h–18h mm.	Rainfall Night 18h–7h mm.	Sunshine 9th Hrs.
London (Kew)	69	61	58	-	Tr	3·9
Croydon ...	70	61	57	-	-	4·0
S. Farnborough	69	59	57	-	-	2·4
Boscombe Down	68	59	56	Tr	-	1·7
Calshot (Sthmtn.)	68	62	60	Tr	0·1	1·6
Lympne ...	67	59	57	-	Tr	5·2
Manston ...	70	59	56	-	-	11·3
Shoeburyness ...	72	61	56	-	Tr	5·4
Felixstowe ...	72	61	59	-	-	3·5
Gorleston ...	69	61	59	-	-	*
Mildenhall ...	74	61	59	-	Tr	10·4
Cranwell ...	75	59	58	Tr	0·4	7·8
Birmingham ...	70	59	57	Tr	1	5·2
Upper Heyford	69	59	57	Tr	0·5	*
Ross-on-Wye	70	58	57	Tr	4	3·2
Hartland Point	64	56	55	Tr	7	0·5
Bristol ...	67	57	57	0·6	8	0·7
Portland Bill ...	61	56	*	Tr	0·5	*
Plymouth ...	62	56	56	7	14	0·0
The Lizard ...	63	55	*	2	3	0·5
Scilly (St. Mary's)	66	55	*	0·1	18	3·3
Pembroke ...	62	55	*	3		0·6
Holyhead ...	63	56	55	2	1	1·0
Chester (Sealand)	73	57	56	Tr	12	4·2
Manchester ...	72	56	56	Tr	23	3·9
Spurn Head ...	74	60	*	-	0·6	3·9
Catterick ...	71	55	55	1	14	2·8
Tynemouth ...	70	55	54	0·4	5	*
St. Abbs Head	65	52	*	0·4	0·6	*
Leuchars ...	66	50	46	3	1	0·3
Renfrew (Abbots I.)	69	44	38	3	Tr	1·8
Eskdalemuir ...	60	49	47	14	4	0·0
Point of Ayre ...	64	54	*	3	2	0·0
Tiree ...	60	45	*		-	4·8
Stornoway ...	57	50	*	9	0·2	2·6
Dalwhinnie ...	59	38	30	7	0·1	2·2
Aberdeen ...	61	51	46	1	-	0·9
Wick ...	57	47	*	1	-	*
Lerwick ...	58	52	*	0·3	1	2·5
Blacksod Point	60	49	*	0·1	-	*
Malin Head ...	60	46	*	4	-	6·7
Aldergrove ...	66	47	43	0·4	0·3	1·5
Birr Castle ...	66	40	37	0·5	-	4·1
Valentia Obsy.	61	44	43	0·3	0·2	5·1
Roches Point	62	51	*	6	0·6	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity 15h. G.M.T. % (Yesterday.)	Humidity 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew ...	18	cid.c	c	cpr.c	69	61	58	-	Tr	3·9	*	*	8
Croydon ...	217	id.cbcc	cv	cv	70	61	57	-	-	4·0	*	*	8
Greenwich (Royal Observatory) ...	149	c	c	c	71	60	57	-	-	5·0	65	70	8
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	72	63	60	-	-	3·3	79	77	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	70	62	61	-	-	5·0	65	71	*
Camden Square ...	110	bc	c	*	71	62	59	-	-	*	*	71	*
Kensington ...	80	bc	bcc	*	71	63	61	-	Tr		73	71	*
Hampstead Observatory ...	450	bc	bc	bcp	70	60	58	-	0·1		*	83	*

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 July Barom. mb.	Wind Direc.	Wind Force.	Weather	Temp. °F.	7h. G.M.T. 10th July 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 "	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.

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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 11th July 1940.

No. 28721

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

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	-16	S'E	3	c	72	65	8	8	2	-	4-6	10	2500
	Croydon	1011.9	-14	S	4	c/r	72	65	8	5	7	-	2-3	10	4000
	S. Farnborough	1011.5	-14	SE'S	2	r₀r₀	70	75	8	5	7	-	4-6	10	2500
	Boscombe Down	1011.2	-14	-	0	r/tlr	59	97	6	6	7	-	9	10	800
	Calshot (Soton.)	1011.3	-14	E'S	2	c/tlr	63	92	6	9	7	-	9	10	1500
	Lympne	1014.1	-10	SSE	2	c	70	55	8	5	-	7	4-6	10	4000
	Manston	1013.0	-18	SE'E	3	c	71	65	8	5	7	-	4-6	9	4000
2	Shoeburyness	1012.9	-16	SSE	3	c	73	65	8	2	7	-	2-3	9+	4000
	Felixstowe	1013.5	-12	SE	4	c	70	75	7	8	7	-	7-8	9+	4000
	Gorleston	1014.1	-14	SSE	3	c	67	85	7	2	4	-	2-3	7-8	2500
	Mildenhall	1011.1	-26	SSE	5	c	77	45	8	8	7	-	4-6	9	4000
	Cranwell	1011.4	-18	SE	3	tlr	65	92	7	9	7	-	7-8	10	800
3	Birmingham	1011.4	-2	NNW	2	tlr	58	92	6	6	-	-	10	10	450
	Upper Heyford	1012.3	-8	S	1	c/tlr	59	92	7	8	2	-	7-8	10	450
4	Ross-on-Wye	1011.7	-10	SE	2	rr	59	92	6	6	-	-	10	10	800
5	Hartland Point	1011.4	-4	WNW	2	c	61	92	8	8	4	-	4-6	7-8	2500
	Bristol	1012.1	-10	-	0	rr	57	97	6	6	2	-	9	10	800
	Portland Bill	1011.3	-12	SE'E	3	TLR	58	85	7	5	-	-	10	10	2500
	Plymouth	1011.3	-10	SSW	2	z	60	92	6	8	-	-	9	9	1500
	The Lizard	1012.1	-4	W	*	bc	64	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1012.7	+2	N'W	4	bc	65	75	8	8	4	3	2-3	4-6	2500
	Guernsey														
6	Pembroke	1011.6	0	N'E	4	bc	62	92	7	8	-	-	4-6	4-6	1500
7	Holyhead	1011.7	+2	N	3	c	60	92	8	5	-	-	9+	9+	800
	Chester (Sealand)	1011.6	+8	SE'E	2	rr	61	92	6	7	2	-	4-6	10	1500
8	Manchester	1012.2	-4	SE	3	rr	60	92	6	6	2	-	4-6	10	800
10	Spurn Head	1012.1	-10	E'S	2	c	63	85	6	8	7	-	4-6	9	1500
	Catterick	1012.4	-6	-	0	c/r	60	85	6	6	2	-	7-8	10	1500
	Tynemouth	1013.6	+2	N	3	f/r	55	92	3	-	2	-	10	10	1500
11	St. Abbs Head	1014.3	+8	N	2	rr	52	92	7	5	2	-	9	10	1500
	Leuchars	1014.1	+2	ESE	2	pr	60	65	8	8	7	-	4-6	9+	4000
12	Renfrew (Abbots I.)	1013.6	-2	ENE	1	c	65	55	9	2	-	8	2-3	9+	4000
	Eskdalemuir														
	Point of Ayre	1012.7	0	N	2	c	60	85	8	7	4	8	4-6	9+	2500
13A	Tiree	1013.7	+4	WSW	2	bc	60	75	8	2	-	5	4-6	4-6	4000
13B	Stornoway	1013.4	+14	S	4	c	59	75	8	8	7	-	7-8	9	2500
15	Dalwhinnie	1014.0	+8	W	1	c	59	55	8	1	6	-	7-8	7-8	4000
	Aberdeen	1015.0	+8	SE'E	2	c/r	58	75	8	8	7	-	Tr	9+	2500
	Wick	1013.8	+8	SSW	4	bc	58	75	9	8	3	6	2-3	4-6	1500
16	Lerwick	1014.5	+22	SSW	5	c	58	85	8	5	3	9	4-6	7-8	1500
17	Blacksod Point	1013.1	+4	WSW	2	bc	62	75	8	3	6	-	2-3	4-6	4000
18	Malin Head	1013.8	+6	NE'E	2	bc	58	65	8	2	-	4	2-3	4-6	5700
	Aldergrove	1013.1	-2	E	3	c	62	65	9	8	-	3	7-8	9	2500
19	Birr Castle	1013.0	-2	S	1	pr	61	65	8	8	-	-	7-8	7-8	2500
20	Valentia Obsy. †	1014.0	+2	W'N	3	c	58	75	9	8	-	3	7-8	7-8	2500
	Roches Point	1013.2	-6	SW	3	bc	62	65	9	3	-	3	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 10th July — PAST 24 HOURS

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 10th (37)	Weather 13h.–18h. 10th (38)	Weather 18h. 10th–1h. 11th (39)	Weather 1h.–7h. 11th (40)
1	London (Kew)	1010.9	0	WSW	2	r₀r₀	63	75	7	5	2	-	4-6	10	1500	1	*	cpr₀c	cpr₀cr₀	cr₀r₀cr₀	r₀cr₀c
	Croydon	1011.1	-2	W	1	c/pr	65	75	8	8	7	-	4-6	9+	4000	0	*	cir₀c	cycpr₀c	r₀ril	bccr₀r₀
	S. Farnborough	1010.2	-16	SE'E	2	rr	59	92	7	-	2	-	9+	9+	5700	1	*	cr₀	cr₀ir	cr₀c	cr₀d₀
	Boscombe Down	1010.0	-12	S'W	1	c/r	60	92	8	6	3	-	4-6	9	2500	1	*	crrgcrrtl	rrrir₀c	cpr₀bc	bccm₀
	Calshot (Soton.)	1010.4	-2	S'E	1	c/r	61	85	8	8	7	-	4-6	10	1500	1	1	ctlrRRm	ctlrRRi	rcpr₀bcw	cm₀cbcm₀
	Lympne	1011.8	-14	S	1	c	68	65	8	1	7	-	4-6	9+	4000	0	§2	c⊕	c⊕bcyc	cir₀	ofm₀rrr₀r₀
	Manston	1010.7	-6	SSE	2	c	71	55	9	2	7	1	2-3	7-8	4000		*	cpr₀c	ccyv	cir₀	
2	Shoeburyness	1010.6	-20	SW'S	2	pr	69	75	8	8	9	-	7-8	9+	4000	0	*	cir₀c	c	rrr₀r₀c	m₀r₀r₀c
	Felixstowe	1010.8	-14	SE'E	3	c	67	85	9	8	9	-	1	9+	4000	0	1	cir₀c	c	cjpc	cpr₀r₀r₀
	Gorleston	1011.6	-12	SE'E	3	c	65	85	7	5	7	-	4-6	7-8	2500	0	3	oir₀	c	c	or₀r₀
	Mildenhall	1010.2	-8	NNE	1	c	69	75	8	8	1	-	4-6	9+	2500	0	*	cir₀cy	cycvc	ctlcRRm₀	cRRr₀rcm₀
	Cranwell	1011.2	-6	S'W	2	tlr	60	92	6	9	-	-	10	10	1500	1	*	ir₀ct'lr₀	TLRgctlr	ctlr₀rcm	or₀r₀cm₀
3	Birmingham	1010.6	-4	SW	1	c/r	57	97	6	5	1	-	9	10	800	1	*	oir	Rir₀	cr₀c	c
	Upper Heyford	1010.6	-4	-	0	ir₀	60	97	7	6	2	-	7-8	10	800	1	*	cr₀TLRcir₀	ctlrcr₀	m₀cr₀cm₀cr₀	cbccm₀cm
4	Ross-on-Wye	1010.5	-6	W	1	c	58	97	7	6	7	-	9	10	1500	1	*	r₀r₀rr	rrc	ccm₀r₀	cbcc
5	Hartland Point	1010.8	-4	NW	3	c	58	92	8	8	4	-	4-6	7-8	2500	0	3	c	c	cbc	bcc
	Bristol	1010.8	-6	-	0	c	58	92	7	8	7	-	7-8	9+	2500	1			crrr₀r₀c	cpr₀bcf₀	cm₀wbc
	Portland Bill	1010.2	-16	SW	2	c	58	92	7	5	-	-	10	10	2500	1	3	tlorr	cpr	c	c
	Plymouth	1011.0	+2	N'W	2	c	61	75	8	8	3	-	4-6	7-8	1500	0	1	crrcm₀	cpr₀cbc	cbc	bclbcc
	The Lizard	1012.0	+4	NW	4	bc	61	65	8	8	4	-	2-3	4-6	2500	1	2	cbc	bc	bcl	cbcw
	Scilly (St. Mary's)	1013.1	0	NW'W	4	bc	61	75	8	8	4	4	1	4-6	2500	1	2	cbc	bc	bccp	bccl
	Guernsey																				
6	Pembroke	1011.6	-2	NW	3	c	59	85	8	2	7	9	2-3	7-8	1500	1	1	cbc	bcc	bcc	c
7	Holyhead	1010.7	-2	N	4	c	58	85	7	5	1	-	9+	10	1500	1	2	c⊕	c	cpr₀c	cr₀r₀
	Chester (Sealand)	1010.0	-8	SE'S	1	r₀r₀	59	92	6	6	2	-	4-6	10	800	1	*	rrr₀r₀RR	m₀cm₀rrr₀c	cr₀r₀m₀c	cir₀m₀
8	Manchester	1009.9	-10	W'N	2	r₀r₀	58	97	5	6	2	-	7-8	10	800	1	*	crrd₀r₀r	rcm₀r₀r	cm₀m₀ff	cffmm₀
10	Spurn Head	1011.6	-6	N'E	3	c	60	97	6	8	7	-	4-6	10	1500	1	2	c	pso	oc	co
	Catterick	1010.9	-14	NE'N	2	rf	57	97	2	6	2	-	9+	10	450	1	×	r₀r₀rrm₀	TLRfr	RRr₀r₀m	rrmr₀r₀m₀
	Tynemouth	1012.7	-12	N	3	rr	54	97	5	-	2	-	10	10	1500	1	2	oirff	offirtl	offrr	oir
11	St. Abbs Head																	crr		rrFf	rrff
	Leuchars	1014.5	+6	ENE	2	rr	54	92	6	5	2	-	4-6	10	4000	1	*	cir₀cpr₀	cem₀rr	cm₀rrcRR	cRRrrr₀
12	Renfrew (Abbots I.)	1012.7	-2	ENE	3	c	64	55	9	8	1	-	4-6	10	2500	0	*	cwm₀cbcy	cy	cir₀r₀rr	cr₀r₀rrm
	Eskdalemuir	1012.1	-8	NE	3	rr	53	92	6	6	2	-	4-6	10	450	1	*		cerr	crr	crr
	Point of Ayre	1011.4	-4	N'E	2	r₀r₀	58	92	8	8	2	-	9	10	1500	1	1	c	cr₀r₀	rr₀r₀	r₀r₀
13A	Tiree	1014.4	+2	N'W	2	bc	59	85	8	1	-	5	1	2-3	4000	0	2	bc	bc	c	c
13B	Stornoway	1015.3	+14	WNW	2	c/pr	59	75	8	8	8	-	4-6	7-8	2500	1	1	cpr	cpr	c	c
15	Dalwhinnie	1014.9	+6	ENE	1	ir₀	58	65	7	4	-	-	10	10	2500	1	*	bc	bco		ir
	Aberdeen	1015.2	+2	ENE	2	ir₀	55	97	7	6	2	-	Tr	9+	800	1	1	cir₀	cir₀	crR	ctlRR
	Wick	1016.0	+10	E	1	c	55	85	8	5	3	8	4-6	9	1500	1	1	bc	bcc	cr₀r₀	r₀rr
16	Lerwick	1015.6	+12	SW	4	c	57	75	8	5	3	9	4-6	7-8	1500	0	*	bcc	c	cprrr	crrBir
17	Blacksod Point	1014.0	+8	NNW	2	bc	60	75	8	3	-	-	4-6	4-6	2500	0	2	bc	pr₀bc	bc	bcc
18	Malin Head	1014.2	+4	N'E	3	bc	58	75	8	2	-	2	2-3	4-6	5700	0	0	bcvc	bc	c	c
	Aldergrove	1012.3	-6	NNE	3	c	63	45	9	2	3	7	Tr	9+	4000	1	*	cbcc	cy	cycir₀	rrr₀r₀c
19	Birr Castle	1012.3	-4	NE	1	c	65	45	8	4	-	6	4-6	9	2500	0	*	cpr₀	cy		c
20	Valentia Obsy. †	1013.6	-2	WNW	3	bc	60	65	9	2	7	-	2-3	2-3	2500	1	3	bccprpr₀	bccbcb	bbw	bwbcwpr
	Roches Point	1012.7	-2	W'N	3	c	62	65	8	3	4	5	2-3	7-8	1500	1	2	bc	bcc	pr₀c	irir₀

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.

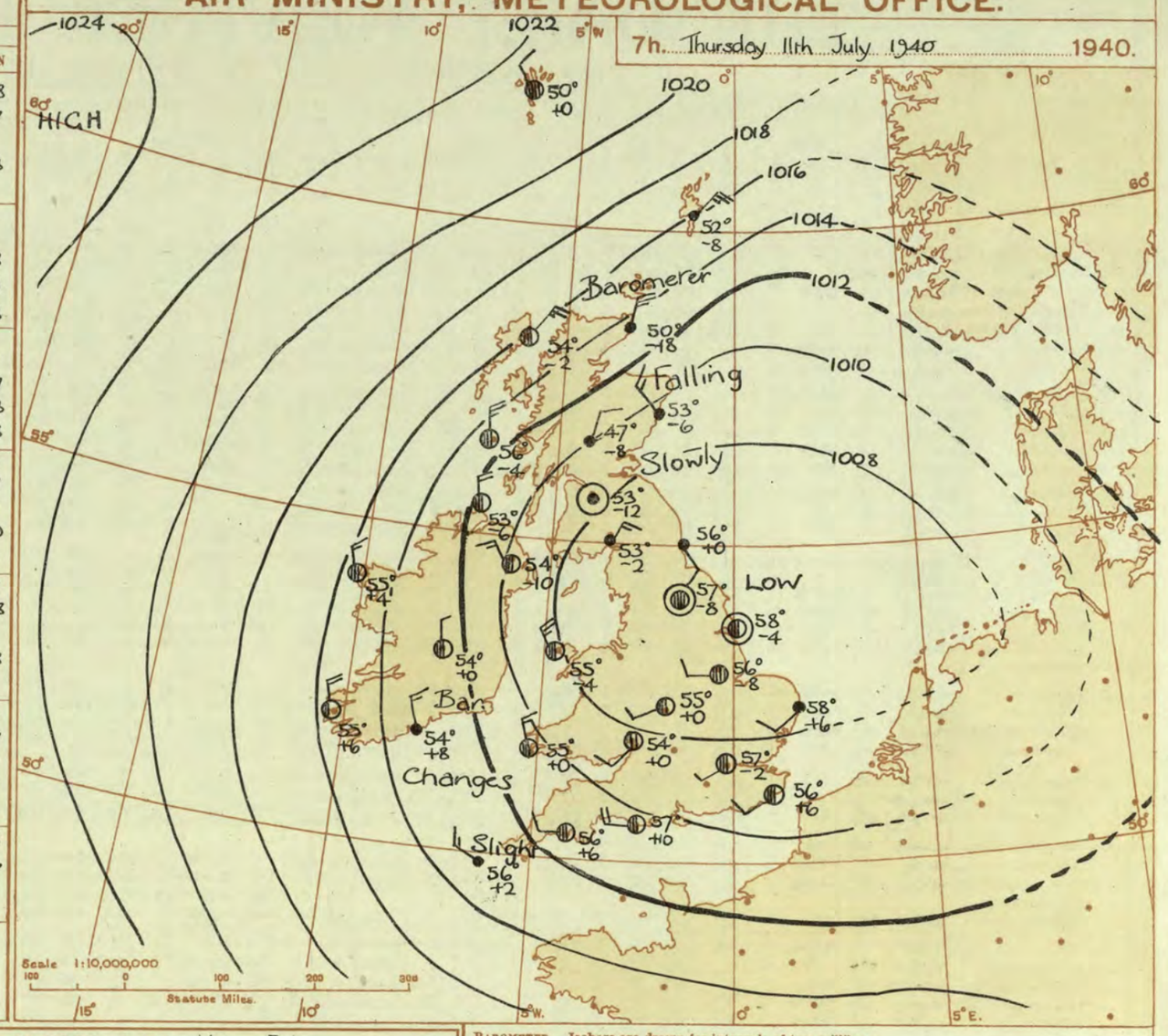
COLUMN 29 —STATE OF GROUND.

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. Thursday 11th July 1940 ..... 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.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 10th July				18h. G.M.T.			01h. G.M.T. 11th July				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	17	01864	18114	77	01964	32215	62	62744	04118	82	22838	04568
115	11	01953	20514	11	01963	26314	52	02834	08326	52	03834	04527
203												
206	20	01963	08125	83	01963	06125	52	62845	04268	52	62845	02168
210	80	01953	04125	73	02963	06426	62	64635	05368			
220	10	01953	24303									
230	80	01963	22214	47	02961	28315	5-	02857	02367			
245	87	01965	08267	07	62758	03368	52	64636	02568	62	62736	01568
260	89	02863	32115	52	63645	06168	67	62538	32268	6-	64738	02168
277	95	02964	29416	52	64855	29367	62	64645	30468	52	64634	30468
279												
285	6-	63738	14368	6-	63838	10468				6-	64438	12368
288	5-	63868	06198	5-	91438	04398				52	62745	07167
273	16	01872	29303							13	01762	30403
301				--	64558	16268				--	02743	24368
321	67	05665	28127	62	66634	00068	52	22645	10268	62	51547	16168
299										62	05645	30167
292							62	22635	08168	5-	05628	09168
310	--	63628	20368	--	64528	20368				--	46109	24249
316	57	61545	24268							57	02545	16128
333	8-	02847	30327	84	02843	32227				62	62737	30468
334	--	02854	00027							--	02745	24228
340	62	62736	19268				5-	08458	00068			
136	23	02865	12465	81	02853	03227	32	81644	00084	52	64648	00088
336	--	61755	20468	--	02855	20468						
350	92	05728	14398	52	62844	16198				02	62648	20168
368				27	02844	20266	50	01754	28214	93	93746	24297
379	9-	01658	16198	67	22744	04167	4-	05553	00013	57	47356	22247
390	57	61754	13428	87	25835	24388				62	62545	22267
382	8-	01658	00098	52	25835	00088	5-	02656	00026	53	61536	20167
438	8-	12857	14417							57	01754	24465
430				5-	22876	08267	57	02654	24225	8-	05655	26326
409	84	01854	29315	83	02954	30326	84	01844	27314	86	01854	25414

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. 11th July
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Light or moderate westerly wind; cloudy, some showers, local thunder, brighter intervals; rather cool.
6 South Wales ... 7 North Wales ...	Moderate or fresh northwest wind; cloudy, some showers or drizzle; cool.
8 N.W. England 9 N. Midlands ... 10 N.E. England	Light or moderate variable or northwest wind, cloudy, occasional rain; local thunder; cool.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate or fresh northeast or north wind, strong locally; dull, some rain, heavy locally; cool.
13 A. W. Scotld.	Fresh or strong northeast wind; dull, occasional drizzle or rain; cool.
13 B. N.W. Scotland.	
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate or fresh northeast or north wind, strong locally; dull, some rain, heavy locally; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or fresh north wind, cloudy, some showers; cool.

GENERAL INFERENCE.

A complex depression over Northern England and the North Sea continues to deepen and move slowly northeast. There will be considerable further rain in many parts of Scotland, and showers or occasional rain elsewhere. Thunder will occur locally in England.

FURTHER OUTLOOK.

Cool with showers in most districts and perhaps further continuous rain in East Scotland.

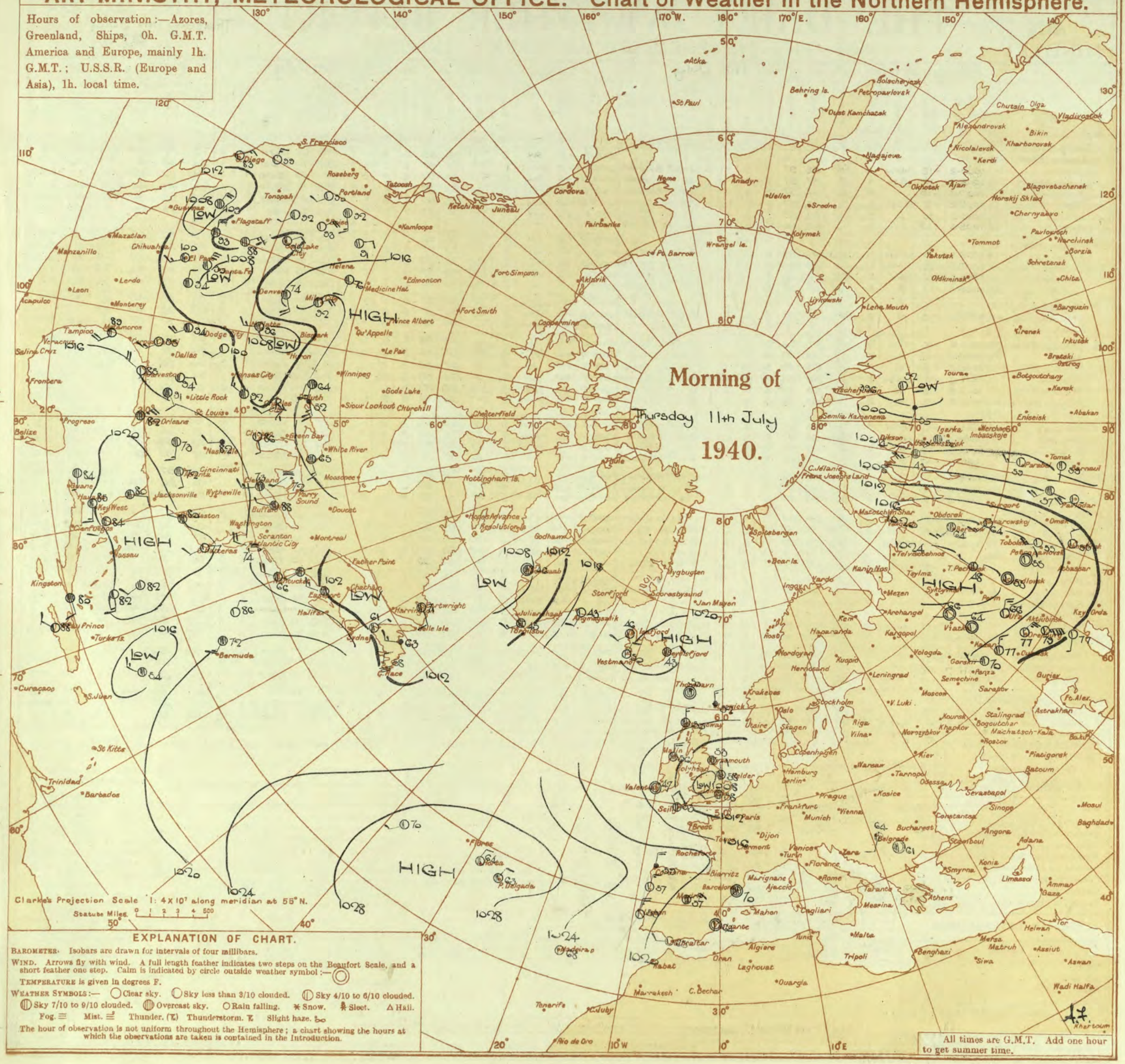
Forecasts issued at 10.30 G.M.T.

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.

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 11th July 1940.
No. 28721

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

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	-12	WSW	2	c/r	58	97	7	5	-	3	4-6	7-8	4000
	S. Farnborough	226	1008·9	-10	S'W	1	c	57	97	7	5	-	-	10	10	1500
	Boscombe Down	417	1009·4	-10	-	0	c	54	97	7	5	-	-	7-8	7-8	2500
	Calshot (Sthmtn.)	8	1009·8	-6	WSW	2	zo	55	97	6	5	1	-	7-8	10	2500
	Lympne ...	346	1010·2	-10	W	2	o/r	58	85	7	5	-	-	10	10	2500
	Manston ...	154	1008·6	-10	NW'W	3	iro	60	92	6	5	-	-	10	10	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1009·1	-6	NW'N	3	cjp	61	92	8	5	2	-	7-8	10	2500
	Gorleston ...	5	1008·9	-20	NNE	1	c	62	85	6	5	-	-	10	10	2500
	Mildenhall ...	19	1008·9	-10	SE'E	2	RR	59	97	6	-	2	-	10	10	2500
	Cranwell ...	240	1008·8	-14	S	2	roro	57	97	5	5	-	-	10	10	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1009·3	-10	N	2	c/r	57	97	6	5	7	-	4-6	7-8	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010·6	-8	NW	3	bc	57	85	8	4	-	-	4-6	4-6	2500
	Bristol ...	209	1009·4	-10	-	0	zo	54	97	6	5	-	-	7-8	7-8	800
	Portland Bill ...	32	1010·2	-8	W	3	c	57	92	8	5	-	-	10	10	4000
	Plymouth ...	82	1011·6	-4	WNW	2	bc	55	85	7	8	-	-	2-3	2-3	2500
	The Lizard ...	240	1012·8	-6	W	2	bc	53	92	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1013·2	-8	NW	2	bc/pr	53	85	8	8	4	-	2-3	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	1011·0	-2	NNW	3	c	56	85	8	8	6	-	4-6	7-8	1500
7	Holyhead ...	26	1009·2	-14	NW'W	4	c/pr	55	97	7	8	2	-	7-8	10	1500
	Chester (Sealand)	16	1008·8	-10	W'S	3	zo	57	85	6	5	-	-	10	10	1500
8	Manchester ...	70	1008·6	-10	S'W	1	cf	54	97	3	5	-	-	4-6	7-8	1500
10	Spurn Head ...	29	1008·6	-14	N	1	c	58	97	6	5	-	-	7-8	7-8	800
	Catterick ...	175	1008·8	-14	-	0	roro	56	97	4	6	2	-	9	10	800
	Tynemouth ...	108	1010·5	-8	E	2	o/r	53	97	6	-	2	-	10	10	1500
11	St. Abbs Head	280	1010·0	-18	ENE	4	F	54	97	1	-	-	-	10	10	<150
	Leuchars ...	36	1011·5	-6	NNE	2	RR	51	97	6	6	2	-	7-8	10	800
12	Renfrew (Abbots I.)	19	1012·1	-10	NE'N	1	roro	53	92	7	5	2	-	2-3	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1009·2	-12	N'E	4	roro	55	97	7	6	2	-	4-6	10	800
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1016·6	+2	N	3	c	50	97	7	5	7	-	Tr	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1015·7	-12	NNE	3	roro	51	92	7	5	2	-	7-8	10	1500
16	Lerwick ...	156	1018·6	+6	N	3	rr	52	92	6	6	2	-	4-6	10	800
17	Blacksod Point	18	1015·4	0	N	1	b	54	85	8	3	-	-	1	1	1500
18	Malin Head ...	84	1013·4	-8	N	4	c	56	85	8	8	-	-	7-8	7-8	5700
	Aldergrove ...	268	1011·7	-10	N'W	3	iro	53	92	8	5	-	-	10	10	4000
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1014·5	+2	-	0	b	47	92	9	2	4	-	Tr	Tr	2500
	Roches Point	22	1013·3	0	NNW	4	c/pr	55	85	8	8	-	-	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 11th July — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 10th Hrs. (36)
London (Kew)	1008·8	+8	SW	2	o/r	58	85	6	5	-	-	10	10	1500	1	*	73	57	55	0·1	4	1·6
Croydon	1009·1	-2	SW'W	1	c/r	57	97	6	5	3	-	7-8	9+	1500	1	*	74	56	51	Tr	4	0·7
S. Farnborough	1009·0	+6	SW	3	c/d	56	92	6	5	3	-	9	9+	1500	1	*	72	54	52	2	1	0·6
Boscombe Down	1009·5	+4	WSW	3	zo	54	92	7	2	-	-	2-3	9	2500	1	*	60	49	46	3	0·6	0·1
Calshot (Sthmtn.)	1009·8	+6	WSW	3	bc	58	85	7	8	3	-	2-3	4-6	2500	1	1	67	53	51	21	Tr	0·5
Lympne	1010·1	+6	SW	2	c/r	56	97	7	5	7	-	4-6	9+	450	1	2†	74	56	55	-	0·5	2·5
Manston																*	74			-		
Shoeburyness	1009·0	+6	SW	3	roro	58	92	7	6	2	-	9+	10	1500	1	*	75	57	57	Tr	9	1·6
Felixstowe	1008·1	+2	WSW	3	ir	59	97	6	6	2	-	4-6	10	800	1	2	72	59	58	Tr	2	2·4
Gorleston	1007·8	+6	SW'S	2	roro	58	97	6	6	-	-	10	10	1500	1	2	67	58	55	0·4	5	4·3
Mildenhall	1007·2	+2	SW	2	roro	59	97	5	6	2	-	4-6	10	1500	1	*	78	57	55	Tr	13	2·8
Cranwell	1007·0	-8	W	2	zo	56	92	5	5	-	-	10	10	1500	1	*	71	58	56	15	12	1·2
Birmingham	1007·7	0	WSW	1	c	55	97	5	5	7	-	2-3	9+	800	1	*	61	53	49	15	Tr	0·0
Upper Heyford	1008·3	-2	SSW	2	zo	54	97	6	5	2	-	7-8	10	<150	1	*	66	52	45	17	1	*
Ross-on-Wye	1008·6	0	SSW	2	c	54	92	8	8	-	1	9	9+	2500	1	*	61	51	47	11	0·2	0·0
Hartland Point	1010·6	+2	NW	3	c	58	85	8	8	6	-	4-6	7-8	2500	0	2	62	55	52	-	-	4·4
Bristol	1009·3	+2	SW'W	3	bc	57	85	8	8	6	-	4-6	4-6	2500	1	*	60	52	44	14	Tr	0·0
Portland Bill	1011·8	+10	W	4	c	57	85	8	5	4	-	4-6	7-8	4000	1	3	60	55	*	26	-	*
Plymouth	1011·7	+6	W	2	c	56	85	8	8	4	-	7-8	7-8	1500	0	1	64	54	51	1	-	2·8
The Lizard	1012·7	0	W'S	3	bc	56	92	8	8	-	-	4-6	4-6	2500	1	2	67	52	*	1	-	9·7
Scilly (St. Mary's)	1013·0	+2	WNW	3	pr	56	92	8	9	6	3	4-6	7-8	1500	1	2	65	51	*	-	0·3	11·2
Guernsey																						
Pembroke	1010·2	0	NW'N	3	c	55	85	8	8	-	-	9	9	1500	1	2	63	53	*	-	0·5	6·6
Holyhead	1008·1	-4	NW'W	5	c	56	92	8	6	2	-	9+	10	800	1	3	61	54	51	-	3	1·7
Chester (Sealand)	1007·0	-6	WNW	2	iro	57	85	7	5	-	-	10	10	1500	1	*	63	56	53	8	0·6	0·0
Manchester	1007·0	-6	W	1	zo	57	97	5	5	-	-	10	10	1500	1	*	61	53	51	7	2	0·0
Spurn Head	1006·7	-4	-	0	c	58	92	7	5	-	-	9+	9+	800	0	1	66	57	*	18	4	0·5
Catterick	1006·5	-8	-	0	o/r	57	97	6	-	2	-	10	10	800	1	*	61	56	54	9	13	0·0
Tynemouth	1008·0	0	SE	2	ir	56	97	6	-	2	-	10	10	1500	1	1	56	53	52	11	16	*
St. Abbs Head	1007·7	-10	N	3	rF	53	97	1	-	-	-	10	10	<150	1	3	53	51	*		23	*
Leuchars	1008·1	-14	N	2	rr	52	97	7	5	-	-	10	10	800	1	*	61	50	50	1	26	0·4
Renfrew (Abbots I.)	1008·8	-12	-	0	rr	53	97	5	5	-	-	10	10	800	1	*	68	53	51	-	8	5·9
Eskdalemuir	1007·0	-2	NE'E	3	rr	53	92	6	6	2	-	7-8	10	450	1	*	57	50	50	5	19	0·0
Point of Ayre	1006·6	-10	N'E	4	c/r	54	97	7	6	2	-	7-8	10	800	1	3	64	53	*	0·1	3	2·3
Tiree	1012·2	-4	N	5	c	56	85	8	5	3	-	4-6	9	2500	0	4	61	54	*	-	-	13·6
Stornoway	1016·2	-2	NNE	5	c	54	85	7	5	7	-	9	9+	1500	1	3	62	48	*	0·4	-	9·2
Dalwhinnie	*	-8	NNE	2	r	47	85	6	5	-	-	10	10	800	1	*	65	45	45	-	7	7·6
Aberdeen	1010·2	-6	NW	3	rr	53	97	7	9	-	-	10	10	1500	1	2	59	50	49	0·3	56	0·9
Wick	1013·4	-18	NNE	5	rr	50	92	7	5	2	-	7-8	10	800	1	3	59	50	*	-	9	*
Lerwick	1016·1	-8	NE	5	ir	52	97	8	6	2	-	4-6	10	800	1	*	59	51	*	-	4	12·5
Blacksod Point	1015·5	+4	N'W	3	c	55	85	8	9	-	-	9	9	800	0	3	63	50	*	0·1	-	*
Malin Head	1011·6	-6	N	4	c	53	85	8	2	-	4	4-6	7-8	5700	0	2	60	52	*	-	-	14·6
Aldergrove	1009·6	-10	NW'N	3	c/r	54	92	8	5	7	-	7-8	10	800	1	*	65	52	51	-	4	8·8
Birr Castle	1013·3	0	N	1	c	54	85	8	-	4	5	0	7-8	-	0	*	67	48	45	1	-	11·4
Valentia Obsy.	1015·4	+6	N'W	4	bc/pr	55	85	8	8	8	3	4-6	4-6	2500	1	3	61	45	37	1	0·3	11·0
Roches Point	1013·3	+8	N'W	3	iro	54	92	8	6	2	-	7-8	9	1500	1	2	64	52	*	0·5	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.	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	cpoc	cprocro	crocrocro	73	57	55	0·1	4	1·6	*	*	6
Croydon	217	ciroc	cdcproc	roroirol	74	56	51	Tr	4	0·7	*	*	7
Greenwich (Royal Observatory)	149	c	c	crRcrc	74	55	51	-	17	0·7	59	83	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park)	27	*	*	*	74	57	56	3		0·8	71	91	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	74	56	55	-	3	1·2	55	92	*
Camden Square	110	c	c	*	75	57	57	-	4	*	*	81	*
Kensington	80	bcp	cbc	*	74	56	55	Tr	4		74	87	*
Hampstead Observatory	450	bcptl	or	bc	73	53	51	-	3		*	97	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 11th

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
<0·1 whole period.			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 10th July Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 11th July 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.

THE DAILY WEATHER REPORT

Page 1.

AIR MINISTRY.

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 12th July, 1940.

No. 28,722

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

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)...	1008.6	0	SW W	3	c	66	45	8	8	-	3	7-8	7-8	2500
	Croydon ...	1009.5	-2	SW	3	bc	68	55	8	2	6	-	4-6	4-6	2500
	S. Farnborough	1010.3	+6	WSW	4	c jp	62	65	8	8	6	3	7-8	9	4000
	Boscombe Down	1011.2	+14	NW'W	4	c/pr	59	75	8	3	-	3	9+	9+	2500
	Calshot (Soton.)	1011.0	+6	SW'S	6	t	66	75	7	8	-	-	4-6	4-6	1500
	Lympne ...	1011.8	+14	SW	5	bc	66	55	9	2	-	-	7-8	7-8	2500
	Manston ...	1010.4	+10	SW	5	bc	69	55	8	2	-	-	4-6	4-6	2500
2	Shoeburyness ...	1009.6	+6	SW'S	4	bc	69	55	8	2	-	-	4-6	4-6	2500
	Felixstowe ...	1008.7	+2	SW	5	cq	67	55	8	2	-	-	7-8	7-8	4000
	Gorleston ...	1008.1	+4	SSW	4	c	65	75	7	8	-	-	9	9	2500
	Mildenhall ...	1007.4	-4	SW'S	5	bc	67	55	7	8	-	-	4-6	4-6	2500
	Cranwell ...	1007.0	+2	NW	2	c/TLR	53	97	8	9	6	-	4-6	7-8	1500
3	Birmingham	1006.8	-6	SW	4	c	62	55	8	8	7	-	4-6	7-8	1500
	Upper Heyford	1008.8	+6	WSW	4	pr	55	85	7	3	6	3	9	9+	1500
4	Ross-on-Wye ...	1008.8	+10	W	5	bc	60	65	8	8	-	1	7-8	7-8	4000
5	Hartland Point	1011.5	+6	WNW	4	bc	60	75	9	8	6	-	2-3	4-6	2500
	Bristol ...	1011.1	+12	WSW	3	T/Hr	54	85	7	9	7	-	7-8	9+	1500
	Portland Bill ...	1012.8	+6	WSW	4	c	57	85	8	2	4	-	7-8	9	4000
	Plymouth ...	1012.3	+4	SW	4	t/tlr	57	75	7	9	-	-	9+	9+	1500
	The Lizard ...	1013.7	+6	NW	3	c	59	75	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1014.1	+8	NW'W	3	c/pr	57	85	8	9	7	-	7-8	10	1500
	Guernsey ...														
6	Pembroke ...	1011.3	+2	N'W	4	c	56	85	8	8	7	-	7-8	9+	1500
7	Holyhead ...	1006.9	-6	NW'W	5	iro	54	92	6	6	2	-	7-8	10	800
	Chester (Sealand)	1005.8	-10	NW'W	4	pr	62	75	7	8	7	-	9	9+	2500
8	Manchester ...	1005.8	-10	WSW	3'	zo	60	75	6	8	7	-	4-6	9+	1500
10	Spurn Head ...	1005.8	0	S'W	3	c	63	92	6	5	6	-	7-8	9	1500
	Catterick ...	1004.9	-10	SE'E	1	rr	59	97	5	6	-	-	10	10	450
	Tynemouth ...	1004.4	-14	NE	2	zo	57	97	5	-	2	-	10	10	1500
11	St. Abbs Head	1005.6	-8	E	3	rf	56	97	1	-	-	-	10	10	<150
	Leuchars ...	1006.3	-14	NE	2	RR	57	97	5	6	-	-	10	10	220
12	Renfrew (Abbots I.)	1006.7	-14	NW'N	2	roro	56	92	8	5	7	-	9	10	1500
	Eskdalemuir ...	1004.6	-12	NE'N	2	ir	57	92	7	6	2	-	7-8	10	1500
	Point of Ayre ...	1005.4	-8	NNW	3	c	59	92	7	8	7	7	4-6	10	1500
13A	Tiree ...	1011.0	-4	N	6	c/d	54	85	7	6	-	-	9+	9+	1500
13B	Stornoway ...	1015.6	-6	N	6	roro	53	97	6	5	2	-	9	10	1500
15	Dalwhinnie ...	1010.7	-12	NNE	2	RR	50	97	6	4	-	-	10	10	800
	Aberdeen ...	1009.1	-8	NE	3	roro	57	97	5	5	-	-	10	10	800
	Wick ...	1011.5	-4	NNE	5	rr	54	97	4	5	2	-	9	10	450
16	Lerwick...	1015.7	-2	NE	6	rr	54	97	6	6	2	-	4-6	10	450
17	Blacksod Point..	1015.7	0	N'W	5	bc	60	75	8	3	-	9	4-6	7-8	1500
18	Malin Head ...	1010.9	-6	N	5	rr	54	85	6	6	-	-	9+	9+	1500
	Aldergrove ...	1008.3	-8	NNW	4	c	53	85	8	5	2	-	9+	10	800
19	Birr Castle ...	1012.1	-6	NNW	3	c	63	55	8	-	7	5	0	7-8	-
20	Valentia Obsy. †	1016.5	+2	NNW	5	e	61	65	8	2	-	9	7-8	7-8	2500
	Roches Point ...	1012.8	-6	N'W	5	bc/pr	62	65	9	3	4	3	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 11th July.

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)	1011.4	+4	SW	2	c/pr	60	75	8	8	-	3	4-6	7-8	2500	1	*
Croydon	1010.9	-2	SW	4	c jp	63	55	8	8	6	5	4-6	7-8	2500	0	*
S. Farnborough	1011.0	+2	W'S	4	bc	63	55	9	8	6	2	2-3	4-6	4000	0	*
Boscombe Down	1011.2	+4	W'N	2	c	58	75	9	8	-	3	4-6	4-6	2500	1	*
Calshot (Soton.)	1011.6	+2	SW	5	bc	63	65	8	8	8	3	2-3	4-6	4000	0	3
Lympne	1013.2	+6	SSW	4	bc	60	75	9	2	7	1	1	2-3	2500	0	§3
Manston	1011.6	+4	SW	4	bc	65	45	8	2	3	3	1	4-6	2500	0	*
Shoeburyness	1011.6	+14	SSW	4	bc	64	55	8	2	-	2	2-3	4-6	4000	1	*
Felixstowe	1010.5	+12	SW'W	4	bc	67	55	8	2	6	3	Tr	1	4000	0	2
Gorleston	1009.7	+2	SW'S	4	bc	64	65	7	1	4	-	1	4-6	2500	0	2
Mildenhall	1009.6	+14	SW	4	b	64	55	9	7	7	-	2-3	2-3	4000	0	*
Cranwell	1007.6	+2	SW	4	pr	56	85	8	3	6	3	4-6	7-8	2500	1	*
Birmingham	1008.2	+2	SW	3	rr	52	97	6	6	-	-	10	10	800	1	*
Upper Heyford	1009.4	+2	WSW	3	c	56	85	8	8	7	-	7-8	9	1500	1	*
Ross-on-Wye	1009.6	+4	SW'W	4	ir	54	85	8	6	2	-	9	10	1500	1	*
Hartland Point	1012.2	0	WNW	3	TLH	59	85	7	8	-	-	9+	9+	800	1	2
Bristol	1011.4	+8	W	3	pr	56	85	7	8	7	-	4-6	9+	2500	1	*
Portland Bill	1012.7	+2	W	4	c	59	85	8	2	4	-	4-6	7-8	4000	1	3
Plymouth	1012.8	+4	NW'W	4	c	62	85	8	3	6	3	2-3	4-6	2500	0	2
The Lizard	1014.1	+2	W'S	2	bc	60	75	8	8	6	-	4-6	4-6	2500	0	1
Scilly (St. Mary's)	1015.1	+4	WNW	4	bc	62	75	8	8	6	4	2-3	4-6	2500	0	2
Guernsey																
Pembroke	1010.7	-2	WNW	4	c/pr	57	85	8	8	-	-	9	9	800	1	2
Holyhead	1006.2	-2	WNW	5	DD	53	97	6	6	2	-	7-8	10	220	1	3
Chester (Sealand)	1005.6	-2	WSW	2	c	57	75	8	7	2	-	9	10	1500	1	*
Manchester	1005.8	-2	WSW	3	zo	57	85	6	8	7	-	9	10	1500	1	*
Spurn Head	1006.2	0	S	5	bc	62	75	6	2	5	-	4-6	4-6	1500	0	3
Catterick	1004.9	+2	SSE	3	r/tlr	52	92	6	9	-	-	10	10	450	1	
Tynemouth	1004.2	-8	SSW	3	c/r	58	92	6	2	2	-	4-6	10	1500	1	1
St. Abbs Head	1003.1	-2	ESE	3	o/r	55	97	0	-	-	-	10	10	<150	1	2
Leuchars	1004.0	-14	ENE	4	RR	56	97	5	6	-	-	10	10	<150	1	*
Renfrew (Abbots I.)	1003.3	-22	NE'N	1	rr	58	97	5	5	2	-	7-8	10	800	1	*
Eskdalemuir	1002.7	-8	S'E	2	c/r	54	92	6	5	2	-	7-8	10	800	1	*
Point of Ayre	1003.6	-6	NW'N	4	RR	54	97	6	-	2	-	10	10	800	1	3
Tiree	1008.3	-12	N	6	rr	54	97	6	-	2	-	10	10	1500	1	5
Stornoway	1013.5	-12	NNE	6	rr	54	97	6	6	2	-	9	10	800	1	3
Dalwhinnie	1007.1	-20	NE	3	rr	55	65	6	4	-	-	10	10	800	1	*
Aberdeen	1006.8	-14	NE	3	rr	56	97	5	6	2	-	9+	10	220	1	2
Wick	1011.3	-4	NE	4	c	55	92	6	5	7	8	7-8	10	800	1	2
Lerwick	1015.6	0	NE	5	c	55	97	6	5	7	-	7-8	9	800	1	*
Blacksod Point	1015.7	+2	N'W	5	cq	57	85	8	9	-	-	10	10	1500	0	4
Malin Head	1008.8	-16	N	6	rr	54	85	6	6	-	-	10	10	1500	1	4
Aldergrove	1006.0	-18	NW'W	4	RR	53	97	6	6	2	-	9	10	450	1	*
Birr Castle	1011.9	+2	NNW	3	c	60	65	8	-	7	-	0	9	-	0	*
Valentia Obsy. †	1017.4	+2	N'W	5	bc/pr	60	75	8	8	-	-	4-6	4-6	2500	0	3
Roches Point	1013.5	-2	N'W	5	/pr	58	75	9	3	-	3	4-6	7-8	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 11th (37)	Weather 13h.—18h. 11th (38)	Weather 18h. 11th — 1h. 12th (39)	Weather 1h.—7h. 12th (40)
London (Kew)	ctpR bccy	bcycp Rc	cbc	bc
Croydon	bcy	bcyqprobcy	bcprw	bwbcb
S. Farnborough	cprbc	etL prbc	prc	bbc
Boscombe Down	cbctlr	bcprbc	cPRbc	bbcc
Calshot (Soton.)	bct	bctbc	bcc	cbbcc⊕
Lympne	cprobc	bcy	cbcbw	bwb
Manston	cirobc	bcy	bcybw	bwbc
Shoeburyness	rorobcpo	bccpobc	bcyb	bwbc
Felixstowe	cirmocy	bcyproby	byb	bbv
Gorleston	oroiroc	cprobc	bc	bc
Mildenhall	cmorrprbcy	bcycbyv	b	bbcwb
Cranwell	roro ThRq	probcq	cproc,b	
Birmingham	cbcpro	cor	orciro	c
Upper Heyford	ciromoph	procprocltlroc		bbccproc
Ross-on-Wye	ecce	cqcr	roccbcl	bccro
Hartland Point	ptlbc	bccph	cpbc	bcpl
Bristol	lRctlr		cprocbc	
Portland Bill	cc	cc	cbc	bcc
Plymouth		tlhoPRbc		bccproc
The Lizard	bcc	bc	bc	bcprc
Scilly (St. Mary's)	cbccp	cbc	cbcpo	bcpoc
Guernsey				
Pembroke	cq	prcq	prolc	crrqo
Holyhead	roiromoc	iroDmoc	DDRRc	RRroroc
Chester (Sealand)	crodomo	cproc	ciromoid	cmoiroro
Manchester	irocmo	czomo	cmoroiro	cmodoc
Spurn Head	Rrc	bc	bc	bc
Catterick	RRomorr	rrRRtlr	rrRRrro	mcmcmo
Tynemouth	oirco	oir	ocpoc	c
St. Abbs Head	rrFf	torff	bcc	moc
Leuchars	crrRRmo	RRroRRmo	cmoRRirofbc	bcmocbcc
Renfrew (Abbots I.)	criroroдo	rorRRmor	cmorRRiro	cmoirocmo
Eskdalemuir	rrdoir	ircrrR	crir	circ
Point of Ayre	o	rrR	rrc	roro
Tiree	odrro	oddr	orrdr	cdrb
Stornoway	croro	cRR	crr	cRpr•
Dalwhinnie	RR	RR	•	cir
Aberdeen	rroro	orrmo	oRro	cbcmo
Wick	morrm	rrcmo	clmrr	cff
Lerwick	cirr	cpr	cirFo	cprFm
Blacksod Point	cbc	procq c	cq	rrq
Malin Head	cprocror,rrc	crorcproprc	crrc	c
Aldergrove	roroiroc	idorrRR	rriRcmo	irocmoiro
Birr Castle	cy	c	cir	crr
Valentia Obsy. †	bcproc	cbccprobc	prproprc	cproc
Roches Point	probc	prc	bcc	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

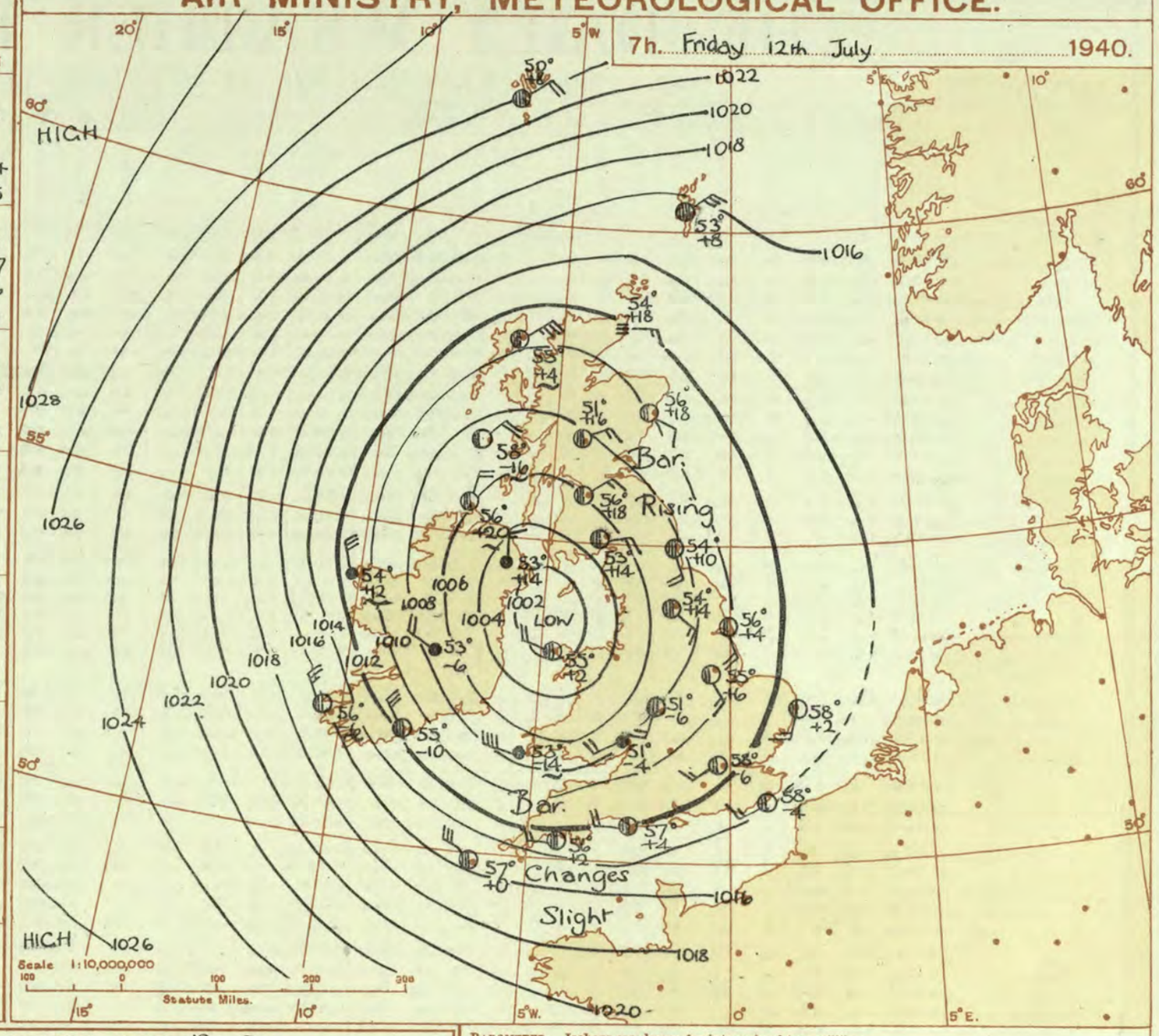
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 12th July 1940.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 11th July			18h. G.M.T.			01h. G.M.T. 12th July			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 6-	22628	06468	57	02635	06527	5-	03628	06728			
115 37	62734	04568	--	67609	04669	--	67209	04669	--	67103	04663
203											
206 62	22745	02268	62	62515	04468	62	64415	04568	7-	01743	06364
210 02	22538	06468	52	62627	04368	5-	22428	05468	53	03543	08225
220											
230 52	62856	02468	52	22845	32468				8-	02855	32225
245 6-	62638	37468	62	66518	03468	50	05643	08523	62	02745	06427
260 02	52528	02268	02	66408	02268	8-	25757	07287	5-	03546	08216
277 62	02727	28428				52	02735	08467	62	66635	06468
279											
285 6-	64638	21468	6-	65638	26368				--	67303	12463
288 52	66545	16268	52	64755	18365	50	05662	16362	57	02755	14426
273 37	10654	30785							46	03543	32365
301 --	03858	23228	--	05644	20228				--	81734	14587
321 52	22555	14268				57	03655	22416	54	00753	14203
299						50	05644	20414	57	01753	18303
292 62	64525	16268	82	61645	18297	5-	08458	13218	5-	05646	14426
310	02638	24328		64428	24368						
316 97	81544	18397	62	22535	16368	50	05653	18413	10	03641	18302
333 62	51636	28358	5-	56518	26568				5-	22728	28268
334	02845	24426		51637	24328				--	52645	20558
340			8-	81848	22488	5-	02848	18528	52	62745	14466
136 8-	02755	19365	20	01754	16484	01	01790	16282	04	01890	14313
336	64642	28468		66643	24468				--	64643	20468
350 87	25854	18465	87	01863	18484				20	01862	14414
368 26	02854	22527	87	61854	23467	30	11744	24314	6-	64638	23568
379 83	25753	22487	83	02754	22427	00	05630	20400	67	22745	20466
390 84	10754	21584	84	81755	55516						
382 2-	81747	21487	77	02863	20326	04	01790	18201	87	81853	18316
438 50	02854	24614							80	02744	24414
430			80	00852	30403	50	00762	00002	3-	25754	22386
409 84	02855	27426	86	01853	24315	86	01853	25514	52	02844	24588

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. 12th July
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate or fresh southwest wind; showers and thunderstorms; some further rain tonight; cool.
5 S.W. England 6 South Wales ...	Fresh or strong squally west to northwest wind, gale locally on coast; periods of rain or heavy showers; local thunder; cool.
7 North Wales ...	Wind variable, moderate or fresh; cloudy, rain at times, local thunderstorms; cool.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate or fresh east to southeast wind; mainly cloudy but some bright periods, some rain or showers, local thunder; cool.
12 S.W. Scotland & Isle of Man. 13 { A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Moderate or fresh northeast to east wind, strong on coast at times; cloudy with occasional rain or showers, but bright intervals; cool.
15 N. E. Scotland 16 Orkneys and Shetlands	Fresh or strong northeast wind; low cloud and coastal fog at first, soon clearing; cool.
17 N. W. Ireland 18 N. E. Ireland	Moderate or fresh northeast to east wind, strong on coast at times; cloudy with occasional rain or showers, but bright intervals; cool.
19 S. E. Ireland 20 S. W. Ireland	Fresh or strong northwest to north wind, gale locally on coast; dull and rainy clearing slowly from northeast; cool.

GENERAL INFERENCE.

The British Isles remain under the influence of a depression which is centred over the Irish Sea and tends to move slowly south while beginning to fill up. There will be showers and thunder in many districts, with more general rain in the West and Southwest. It will be cool generally. Northerly gales will occur locally in the West and Northwest.

FURTHER OUTLOOK.

Disturbed weather continuing; rain or showers and thunder in many districts; cool.

Gale warnings issued at 1200 11.7.40. in districts 13 A and B, 15 and 16, at 0030 12.7.40. in districts 17, 18 and 20, and at 0740 12.7.40 in districts 5 and 19.

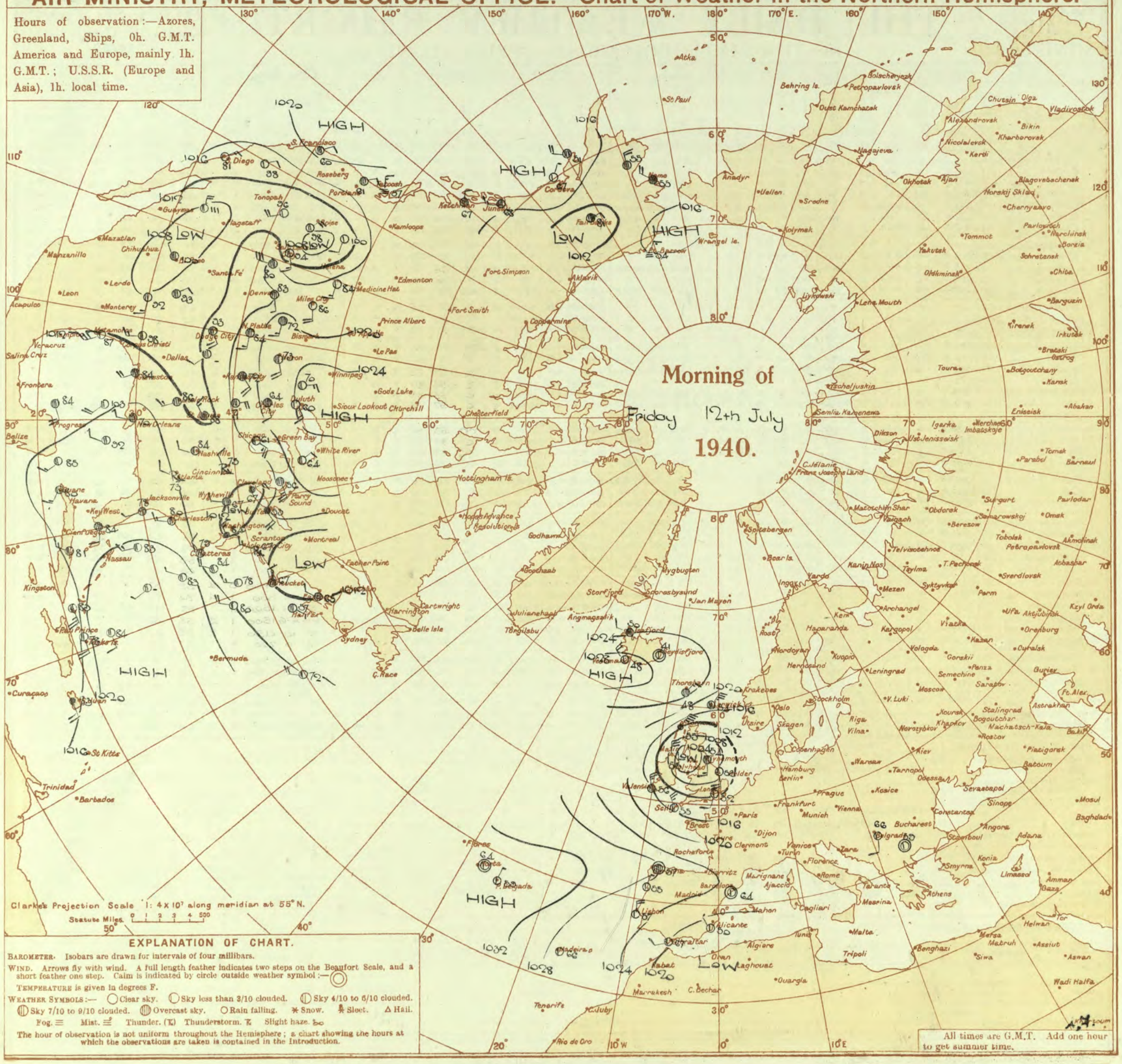
Forecasts issued at 10.30 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3902 Wt. 8745. D. 3705. G. 348 (5800) 8/40

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

Friday 12th July, 1940.

No. 28722.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1012·3	-6	SW	2	b	52	92	8	-	4	-	0	Tr	-
	S. Farnborough	226	1011·7	-14	W	2	b	51	85	8	-	4	-	0	1	-
	Boscombe Down	417	1011·9	-10	S	3	b	48	97	8	5	-	-	1	1	2500
	Calshot (Sthmtn.)	8	1012·4	-6	WSW	3	c	55	85	8	5	-	-	7-8	7-8	4000
	Lympne ...	346	1014·4	+2	SW	2	b	52	92	8	5	-	1	Tr	1	450
	Manston ...	154	1013·4	+6	SW'S	3	b	52	92	7	-	3	1	0	1	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1012·6	+6	SW'W	3	b	57	86	8	-	-	-	0	0	-
	Gorleston ...	5	1012·0	+6	SSW	2	bc	53	85	7	5	-	-	2-3	2-3	2500
	Mildenhall ...	19	1010·8	-4	SSW	3	b	53	75	7	-	7	-	0	1	-
	Cranwell ...	240	1009·2	+4	SW'S	3	b	50	85	7	5	-	-	Tr	Tr	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408														
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011·4	-8	NW	4	bc	57	85	8	3	-	-	4-6	4-6	1500
	Bristol ...	209	1010·8	-10	SW	3	bc	51	85	7	4	-	-	2-3	2-3	2500
	Portland Bill ...	32	1012·4	-8	W	4	bc	57	85	8	5	-	-	4-6	4-6	4000
	Plymouth ...	82														
	The Lizard ...	240	1014·7	-2	W'N	4	bc	55	85	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1015·5	-2	NW'W	5	bc/pr	55	85	8	8	-	-	2-3	2-3	2500
	Guernsey ...	175														
6	Pembroke ...	142	1009·9	+4	WNW	5	pr	56	85	8	8	2	-	7-8	10	800
7	Holyhead ...	26	1003·1	-22	WSW	5	RR	53	97	5	6	2	-	9+	10	800
	Chester (Sealand)	16	1005·8	-4	SSW	3	id.	54	85	6	5	2	-	7-8	10	800
8	Manchester ...	70	1006·8	-2	S	4	2.	54	85	6	5	1	-	7-8	9	1500
10	Spurn Head ...	29	1007·6	+4	SSE	4	b	53	92	6	4	-	-	1	1	2500
	Catterick ...	175	1005·3	+2	SE	2	m	53	97	4	5	-	-	9+	9+	1500
	Tynemouth ...	108	1005·5	+4	S	3	c	54	92	6	2	-	-	7-8	7-8	2500
11	St. Abbs Head	280	1005·8	+10	SE	4	c	52	92	6	5	4	3	4-6	7-8	2500
	Leuchars ...	36	1005·8	+8	E	3	2.	54	92	5	5	-	-	4-6	4-6	1500
12	Renfrew (Abbots I.)	19	1004·1	+16	NE'E	3	c/r	55	92	6	5	3	-	7-8	9+	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1000·3	-10	SSE	3	c	54	97	7	8	-	5	7-8	9	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1011·7	-10	NNE	7	pr	55	97	6	6	2	-	7-8	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1009·0	-10	NE	7	rr	55	92	5	5	2	-	9	10	450
16	Lerwick ...	156	1015·0	-10	NE	7	m/f	54	97	4	5	-	-	10	10	450
17	Blacksod Point	18	1014·2	-14	N'W	7	cq	54	85	7	9	-	-	10	10	1500
18	Malin Head ...	84	1004·1	-18	N	6	rr	55	97	6	9	-	-	9+	9+	800
	Aldergrove ...	268	1001·1	-14	NNW	3	c/r	55	97	6	6	-	-	10	10	450
19	Birr Castle ...	173	1008·1	-16	WNW	3	ir	51	92	7	6	2	-	7-8	10	1500
20	Valentia Obsy.	30	1017·6	-8	NW'N	5	c	56	85	8	5	-	-	9+	9+	2500
	Roches Point	22	1013·7	-10	NNW	5	c	53	85	8	8	-	-	7-8	7-8	1500

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

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)
London (Kew)	1011·2	-4	SW	4	bc	59	75	8	8	-	1	2-3	4-6	2500	1	*
Croydon ...	1011·6	-6	SW'S	3	bdp	58	75	8	3	6	3	2-3	2-3	4000	0	*
S. Farnborough	1010·5	-18	SW'W	3	c	58	75	9	2	-	6	2-3	7-8	2500	0	*
Boscombe Down	1011·3	-6	SW	3	cd	55	92	8	5	-	6	4-6	9	1500	1	*
Calshot (Sthmtn.)	1011·9	-2	WSW	4	c	60	75	8	3	-	8	2-3	9	2500	1	2
Lympne ...	1013·6	-4	SW	3	bc	58	75	8	2	-	-	4-6	4-6	800	0	§
Manston ...	1012·8	-6	SSW	3	c	59	75	7	2	3	1	4-6	7-8	1500	0	*
Shoeburyness ...	1012·6	+2	SW	2	bc	59	75	8	8	-	-	2-3	2-3	2500	1	*
Felixstowe ...	1012·4	+4	SW'S	3	bc	60	65	8	2	4	-	2-3	2-3	2500	0	2
Gorleston ...	1012·5	+2	SSW	3	bc	58	75	7	8	4	-	1	2-3	2500	0	1
Mildenhall ...	1010·9	+6	S	3	b	56	75	7	2	7	1	Tr	1	2500	0	*
Cranwell ...	1009·3	+6	SSE	3	bc	55	85	8	-	-	3	0	2-3	-	1	*
Birmingham ...	1008·0	-6	SSW	3	c	51	92	8	6	-	-	9+	9+	800	1	*
Upper Heyford	1009·6	-16	SW'S	4	s/pr	55	85	8	8	7	6	2-3	9	2500	1	*
Ross-on-Wye	1008·6	-4	SW	4	r/r	51	92	7	-	2	-	10	10	1500	1	*
Hartland Point	1009·9	-4	NW	5	s/pr	53	86	7	8	2	-	7-8	10	1500	1	4
Bristol ...	1010·5	+2	SW	3	iR	51	97	6	6	2	-	7-8	10	800	1	*
Portland Bill ...	1012·2	+4	W	4	c	57	85	8	5	7	-	7-8	10	4000	1	3
Plymouth ...	1012·8	+2	W	3	c	56	85	7	5	2	-	2-3	10	1500	1	2
The Lizard ...	1014·7	+2	W'N	4	c	55	85	8	8	2	-	9	10	1500	1	2
Scilly (St. Mary's)	1014·6	0	WNW	6	c	57	75	8	8	7	3	4-6	9	1500	1	3
Guernsey ...																
Pembroke ...	1006·4	-14	W'N	8	rr	53	92	6	8	-	-	10	10	450	1	4
Holyhead ...	1000·7	+2	W'N	4	c	55	97	7	5	-	-	9+	9+	1500	1	3
Chester (Sealand)	1003·8	-10	NE'E	4	r/r	52	85	6	6	2	-	7-8	10	800	1	*
Manchester ...	1005·2	-6	SSE	5	c	56	75	8	5	7	-	4-6	9+	2500	0	*
Spurn Head ...	1008·9	+4	SSE	4	bc	56	75	7	-	-	4	0	2-3	-	0	2
Catterick ...	1007·2	+14	SE'E	3	2.	54	85	6	5	-	-	9+	9+	1500	1	*
Tynemouth ...	1007·3	+10	SSE	4	2.	54	92	6	8	-	-	9+	9+	2500	1	1
St. Abbs Head	1007·6	+16	SE	4	c	53	92	7	5	6	-	7-8	9+	1500	1	3
Leuchars ...	1008·2	+14	E	3	2.	55	92	6	5	1	-	7-8	9+	2500	1	*
Renfrew (Abbots I.)	1006·4	+18	NE'E	3	2.	56	85	6	5	3	-	7-8	9+	2500	1	*
Eskdalemuir ...	1005·9	+14	E'N	3	c	53	75	7	5	-	-	9+	9+	1500	1	*
Point of Ayre ...	1001·7	+20	SE'S	6	rr	54	97	7	8	2	-	7-8	10	800	1	3
Tiree	1007·3	+16	NE'N	4	bc	58	92	8	1	4	-	2-3	2-3	4000	0	4
Stornoway ...	1011·7	+4	NE	7	c/r	55	97	6	6	2	-	9	10	800	1	4
Dalwhinnie ...	1008·0	+16	ENE	3	c	51	85	6	4	-	-	9+	9+	1500	1	*
Aberdeen ...	1010·6	+18	ESE	4	bc	56	97	6	2	3	3	4-6	4-6	1500	1	2
Wick ...	1011·9	+18	E	3	f+	54	97	1	-	-	-	10	10	<150	1	2
Lerwick ...	1015·3	+8	NE	6	m	53	97	4	5	-	-	10	10	220	1	*
Blacksod Point	1011·2	-12	NNW	6	rr	54	97	7	6	-	-	10	10	5700	1	5
Malin Head ...	1006·1	-20	N'E	4	c	56	92	8	9	-	-	7-8	7-8	5700	1	4
Aldergrove ...	1003·4	+14	N	3	id.	53	92	8	5	7	-	9	9+	800	1	*
Birr Castle ...	1006·9	-6	WNW	4	rr	53	85	7	6	2	-	7-8	10	1500	1	*
Valentia Obsy.	1016·3	-6	NW	5	c	56	75	8	5	-	-	9+	9+	2500	1	4
Roches Point	1011·1	-10	NW	6	c	55	85	8	5	4	5	4-6	7-8	1500	1	2

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 11th Hrs. (36)
London (Kew)	66	51	44	6	-	8·8
Croydon ...	68	51	45	Tr	Tr	9·6
S. Farnborough	68	48	41	0·3	Tr	7·4
Boscombe Down	64	47	43	1	4	6·7
Calshot (Sthmtn.)	67	54	51	-	-	14·1
Lympne ...	67	51	46	-	-	12·3
Manston ...	70	50	46	Tr	-	12·0
Shoeburyness ...	71	54	47	Tr	-	10·0
Felixstowe ...	71	56	51	1	-	8·8
Gorleston ...	70	50	48	4	-	6·3
Mildenhall ...	70	50	48	6	Tr	8·6
Cranwell ...	69	50	48	7	Tr	3·4
Birmingham ...	65	48	47	5	1	2·4
Upper Heyford	63	49	46	1	Tr	*
Ross-on-Wye	63	47	41	0.6	1	2·5
Hartland Point	61	51	47	8	4	6·8
Bristol ...	61	52	50	10	13	1·5
Portland Bill ...	61	49	45	*	-	*
Plymouth ...	61	56	*	6	0·6	6·7
The Lizard ...	63	54	51	-	1	11·5
Scilly (St. Mary's)	64	53	*	0.5	0·2	9·7
Guernsey ...	65	55	*			
Pembroke ...	59	52	*	0.6	11	4·3
Holyhead ...	55	52	51	1	23	0·0
Chester (Sealand)	62	52	49	Tr	1	2·2
Manchester ...	61	52	50	0.1	0·3	0·1
Spurn Head ...	64	50	*	14	-	4·3
Catterick ...	59	51	51	25	9	0·0
Tynemouth ...	59	53	51	5	0·1	*
St. Abbs Head	58	51	*	28	Tr	*
Leuchars ...	58	52	49	20	8	0·0
Renfrew (Abbots I.)	58	54	51	13	9	0·0
Eskdalemuir ...	59	49	48	12	2	0·0
Point of Ayre ...	60	52	*	8	16	0·0
Tiree	59	53	*	1	7	0·2
Stornoway ...	54	53	*	9	18	0·0
Dalwhinnie ...	55	49	45	12	8	0·0
Aberdeen ...	58	53	50	7	12	0·0
Wick ...	55	53	*	8	2	*
Lerwick ...	57	52	*	5	0·6	0·3
Blacksod Point	61	51	*	0.6	5	*
Malin Head ...	56	51	*	7	19	0·5
Aldergrove ...	55	51	49	3	13	0·0
Birr Castle ...	65	51	50	-	9	8·1
Valentia Obsy.	61	53	49	0.4	1	8·6
Roches Point	64	53	*	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.	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	ctPRbcy	bcycPRc	bc	66	51	44	6	-	8·8	*	*	8
Croydon ...	217	bcy	bcyapcby	bcpcnb	68	51	45	Tr	Tr	9·6	*	*	8
Greenwich (Royal Observatory) ...	149	cPb	cPb	Pcbbc	70	49	41	0·3	Tr	9.1	51	59	8
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	68	54	49		1	8·9	65	70	*
Regents Pk. (Botanic Gardens)† ...	168	*	*	*	68	53	50	-	1		49	61	*
Camden Square ...	110	bc	bcp	*	69	53	53	2	-	*	*	62	*
Kensington ...	80	bcp	bc	*	69	52	47						*
Hampstead Observatory ...	450										*		*

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.
<0·1	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 ...											*	*		

‡ 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 13th. July, 1940.

No. 28723.

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

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)...	1011.3	-2	SW'W	5	c/pr	62	65	8	8	3	1	4-6	7-8	2500
	Croydon ...	1011.7	+2	SW'W	4	pr	60	75	8	3	4	6	4-6	9+	4000
	S. Farnborough	1011.5	0	SW'S	5	c/pr	59	75	8	9	1	-	4-6	10	2500
	Boscombe Down	1010.6	-10	SSW	6	r$_o$r$_o$	54	85	7	6	2	-	2-3	10	1500
	Calshot (Soton.)	1013.5	0	SW'S	5	c	64	65	9	3	-	8	4-6	9	1500
	Lympne ...	1012.4	+2	ESE	4	r$_o$r$_o$	57	85	7	5	2	-	2-3	10	1500
	Manston ...	1012.3	-10	ESE	6	c	68	55	8	8	-	6	7-8	7-8	1500
2	Shoeburyness ...	1011.8	-8	WSW	4	c	65	55	8	3	-	3	4-6	7-8	1500
	Felixstowe ...	1011.5	-6	S'W	5	bc	68	55	8	3	6	3	2-3	4-6	2500
	Gorleston ...	1011.3	-8	S'E	5	bc	63	75	7	2	-	-	4-6	4-6	2500
	Mildenhall ...	1009.8	-6	SW	4	c	65	45	8	8	7	-	7-8	9	2500
	Cranwell ...	1008.6	-2	S	4	bc	62	55	8	1	3	9	4-6	4-6	4000
3	Birmingham	1007.1	-2	S	3	r$_o$r$_o$	52	97	6	6	-	-	10	10	450
	Upper Heyford	1009.3	-8	S	4	ir$_o$	57	75	7	8	2	-	4-6	9+	1500
4	Ross-on-Wye ...	1006.9	-8	S'W	4	br	57	85	7	9	6	3	2-3	7-8	800
5	Hartland Point	1008.5	0	WNW	6	rr	55	97	6	6	2	-	7-8	10	800
	Bristol	1008.5	-12	SSW	4	iR	55	97	6	6	2	-	9	10	800
	Portland Bill ...	1011.9	+6	SW	4	rr	57	85	7	5	-	-	10	10	4000
	Plymouth ...	1011.9	-8	W'S	5	r$_o$r$_o$	56	85	6	6	2	-	9	10	1500
	The Lizard ...	1014.0	-4	W	7	c	60	65	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	1013.7	-6	WNW	7	c	62	55	8	8	6	9	4-6	9	1500
	Guernsey ...														
6	Pembroke ...	1006.5	0	W'N	6	cq	57	92	6	8	-	-	9+	9+	800
7	Holyhead ...	1001.3	+2	SW'W	3	c	56	97	6	9	-	-	9	9+	450
	Chester (Sealand)	1004.0	+2	SSE	4	c/r	57	85	7	5	2	-	9+	10	1500
8	Manchester ...	1005.6	0	SSE	3	ir$_o$	56	85	7	5	-	-	10	10	1500
10	Spurn Head ...	1008.7	0	SE'S	4	c	65	55	7	2	-	-	7-8	7-8	1500
	Catterick ...	1007.3	+2	SE'E	4	c	63	55	8	8	6	-	7-8	9+	2500
	Tynemouth ...	1008.9	+4	ESE	4	b	57	85	8	8	3	-	4-6	4-6	2500
11	St. Abbs Head	1009.8	+10	ESE	3	bc	58	85	8	2	6	6	2-3	4-6	1500
	Leuchars ...	1010.6	+10	ENE	3	c	60	75	8	8	7	-	7-8	9+	4000
12	Renfrew (Abbots I.)	1008.6	+10	E'N	4	c	61	65	7	8	7	-	4-6	7-8	4000
	Eskdalemuir ...	1007.3	+6	E'S	4	c	57	75	7	5	-	-	9+	9+	1500
	Point of Ayre ...	1004.7	+12	ESE	5	m	55	97	6	-	2	-	10	10	800
13A	Tiree	1009.2	+4	NE'N	3	c	61	75	8	5	3	-	7-8	9	4000
13B	Stornoway ...	1013.2	+4	NNE	6	f	55	97	3	-	-	-	10	10	<150
15	Dalwhinnie ...	1011.1	+8	E	1	c	61	65	8	2	6	-	7-8	9+	1500
	Aberdeen ...	1012.7	+8	NE	3	c	57	97	7	2	1	-	2-3	10	2500
	Wick	1013.9	+14	ESE	3	pr	55	97	3	5	2	-	7-8	10	800
16	Lerwick... ...	1015.5	0	NE	6	m	55	97	4	5	-	-	10	10	220
17	Blacksod Point..	1010.6	-4	N	5	dr	56	97	5	6	-	-	10	10	<150
18	Malin Head ...	1008.2	+6	NE	3	z$_o$	58	85	6	5	-	-	9	9	5700
	Aldergrove ...	1006.2	+10	NNE	2	ir	57	85	6	8	2	-	7-8	10	1500
19	Birr Castle ...	1006.8	-2	NNW	1	c/dr	57	92	7	3	7	-	4-6	7-8	1500
20	Valentia Obsy. †	1015.2	-6	NW'N	6	o/d	55	92	7	5	-	-	10	10	1500
	Roches Point ...	1009.4	-10	NW	6	ir$_o$	58	85	8	6	1	-	7-8	9	1500

OBSERVATIONS at 18h. G.M.T. 12th. July — PAST 24 HOURS.

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°Temp. (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.—18h. 12th. (37)	Weather 13h.—18h. 12th. (38)	Weather 18h. 12th to 1h. 13th (39)	Weather 1h.—7h. 13th. (40)
1	London (Kew)...	1010.4	-4	SSW	4	pr	59	75	7	8	7	-	9	10	1500	1	*	cprc	cpr$_o$cpr$_o$	cr$_o$rcr$_o$r	ccpr$_o$
	Croydon ...	1011.0	-2	SSW	3	dd	56	85	8	6	7	8	4-6	9+	1500	1	*	bcyprq	cpr$_o$ bccd	ddr$_o$ir$_o$	cid$_o$c
	S. Farnborough	1010.2	-4	SSW	4	r$_o$r$_o$	57	85	7	6	2	-	7-8	10	1500	1	*	cPRq	cpr$_o$r$_o$c	rr$_o$r$_o$c	r$_o$cir$_o$
	Boscombe Down	1009.4	-4	SW'S	4	ir$_o$	55	97	7	6	2	-	9	10	1500	1	*	crrcr$_o$r$_o$	r$_o$r$_o$ir$_o$	cir$_o$m$_o$	.
	Calshot (Soton.)	1010.8	-10	SW	6	ir$_o$	58	85	7	9	2	-	7-8	10	1500	1	3	cRrr	cr$_o$r$_o$ir$_o$	cr$_o$r$_o$m$_o$	ir$_o$d$_o$d$_o$pr
	Lympne ...	1013.7	+4	SW'S	4	c/pr	56	85	8	3	-	3	7-8	9+	1500	0	§3	cprbc⊕	cpr$_o$q	pr$_o$cr$_o$r$_o$	r$_o$d$_o$d$_o$c
	Manston ...	1012.7	+6	SW	5	c/pr	58	55	8	8	-	6	7-8	9+	1500	0	*	pr$_o$bcy	cpr$_o$bcy	ir$_o$bcm$_o$	cr$_o$r$_o$rr
2	Shoeburyness ...	1012.0	-4	S	5	pr	59	65	8	9	-	2	7-8	9+	4000	1	*	Pt$_o$lcbc	bcypr$_o$		cir$_o$c
	Felixstowe ...	1011.0	0	SW	4	bc	64	55	8	8	6	-	4-6	4-6	4000	0	2	bcvpr$_o$	pr$_o$bcvy	cpr$_o$r$_o$c	bcc
	Gorleston ...	1010.9	0	S	4	bc	63	75	7	2	-	-	4-6	4-6	4000	0	3	bc	bc$_o$pr	bc	bcc
	Mildenhall ...	1009.8	-2	S	3	c	62	55	8	8	2	4	7-8	9	2500	0	*	bbccy	bcyvcyv	cjcdd$_o$c	c
	Cranwell ...	1008.7	+2	S	4	r$_o$r$_o$	55	92	8	5	2	-	7-8	9	1500	1	*	bcbcy	bcy,r$_o$r$_o$	cr$_o$r$_o$cm$_o$	cid$_o$m$_o$c
3	Birmingham	1006.3	-4	S	2	c/pr	57	97	6	5	7	-	9	9+	800	1	*	cir$_o$r	or$_o$c	ciRc	c
	Upper Heyford	1008.1	-4	S	4	dd	55	97	6	6	2	-	9	10	450	1	*	ccir$_o$	crrddm$_o$	cir$_o$cr$_o$r$_o$m	cr$_o$m$_o$c
4	Ross-on-Wye ...	1006.5	-4	SW	3	c	60	75	8	6	7	1	9	9+	1500	1	*	r$_o$r$_o$crc	cbcc	cir	c
5	Hartland Point	1008.3	0	WNW	6	c/r	56	97	7	8	2	-	9	10	1500	1	4	rrc	rrc	irc	rrc
	Bristol	1008.2	-2	WSW	3	pr	57	97	6	9	3	-	7-8	9+	450	1	*	r$_o$r$_o$Rrr	cRRrriR	ciRrr	crrd$_o$cpr$_o$
	Portland Bill ...	1010.2	-12	SW	5	o	57	85	7	5	-	-	10	10	2500	1	4	corr	orr	orr	c
	Plymouth ...	1011.1	-6	W'S	6	id$_o$	57	85	6	6	2	-	7-8	10	800	1	4	cr$_o$r$_o$m$_o$	r$_o$r$_o$cm$_o$id$_o$	cm$_o$id	cid$_o$ir$_o$m$_o$
	The Lizard ...	1013.2	-8	W	7	c	56	85	7	5	-	-	10	10	1500	0	3	c	c	cpr	cpr$_o$c
	Scilly (St. Mary's)	1013.4	-2	W'N	6	c/pr	57	85	7	8	7	-	7-8	9+	1500	1	3	cp$_o$cy	cp$_o$c	cp	crrir
	Guernsey ...																				
6	Pembroke ...	1005.8	0	WNW	6	c/r	57	97	7	8	-	-	7-8	7-8	800	1	4	orrmcq	rrcq	cq	c
7	Holyhead ...	1002.8	+8	E'S	3	c	57	92	7	5	-	-	9+	9+	800	1	2	cd$_o$pr$_o$c	cm$_o$d$_o$c	cr$_o$r$_o$lc	prpr$_o$c
	Chester (Sealand)	1004.6	+2	SE	3	c/ph(r)	57	85	6	9	3	-	9	9+	1500	1	*	cm$_o$r$_o$r$_o$id	cr$_o$m$_o$HRh	prr$_o$r$_o$cm	cir$_o$bcm$_o$
8	Manchester ...	1005.8	0	SE'E	3	z$_o$	57	85	5	5	2	-	9+	10	1500	1	*	ir$_o$r$_o$r$_o$ir$_o$	ir$_o$r$_o$r$_o$cm$_o$	cm$_o$	cm$_o$
10	Spurn Head ...	1007.3	-4	ESE	4	c	61	75	7	5	-	-	7-8	7-8	1500	0	3	bcc	cbc	circo	c
	Catterick ...	1007.9	+2	S	1	pr	58	85	6	8	6	-	4-6	7-8	2500	1		cz$_o$cy	ycpr$_o$m$_o$	pr$_o$m$_o$cm$_o$	cir$_o$m$_o$cm
	Tynemouth ...	1009.2	0	E	5	c	57	85	7	8	-	-	7-8	7-8	2500	1	3	cbc	bcc	cbc	bc
11	St. Abbs Head	1010.6	+2	ESE	3	bc	56	85	8	2	4	8	2-3	4-6	1500	0	2	cbc	bc	bc	mm$_o$c
	Leuchars ...	1011.6	+2	ENE	3	bc	58	85	8	8	6	-	4-6	7-8	4000	0	*	ccm$_o$c	cbc	bcm$_o$cm$_o$	cm$_o$c
12	Renfrew (Abbots I.)	1009.1	+2	NE'E	5	bc	62	65	9	8	-	3	2-3	4-6	4000	1	*	cm$_o$c	cbc	bccbc	bcc
	Eskdalemuir ...	1008.3	+2	E	3	pr	55	85	7	5	-	-	10	10	1500	1	*	c	c	pr$_o$bcc	cbc
	Point of Ayre ...	1005.8	+6	SE'E	4	c jp	56	92	7	6	2	-	7-8	10	800	1	3	r$_o$crr	c	c	irc
13A	Tiree	1009.7	+2	NNE	2	c	59	85	8	5	-	-	7-8	7-8	4000	0	2	bcc	c	bc	bcc
13B	Stornoway ...	1014.7	+6	NNE	6	c/r	55	97	6	5	2	-	7-8	10	1500	1	2	cf	cfrr	cm	crrir
15	Dalwhinnie ...	*	+8	E	1	bc	59	75	8	4	-	1	7-8	7-8	1500	0	*	bc	c	.	cir$_o$c
	Aberdeen ...	1013.0	-2	E'N	2	c	58	85	7	8	7	-	Tr	9+	2500	1	!	bcc	c	cr$_o$r$_o$	orrm$_o$
	Wick	1014.2	-6	SE	1	c	55	97	6	5	2	-	7-8	10	800	1	2	Ffif	r$_o$rm$_o$	m$_o$Fd	Fddm
16	Lerwick... ...	1015.5	0	NE	5	m	54	97	4	5	-	-	10	10	220	1	*	ompr	ompr	om$_o$	oidm$_o$
17	Blacksod Point..	1010.3	-2	N	4	bc	58	92	7	3	4	-	2-3	4-6	800	0	3	dd	cbc	c	c
18	Malin Head ...	1008.9	+4	NNE	3	c	58	85	8	7	7	-	4-6	7-8	5700	0	3	z	cz$_o$zcc	c	cbc
	Aldergrove ...	1007.2	+2	NE	3	ir$_o$	54	92	6	5	2	-	7-8	10	4000	1	*	d$_o$d$_o$ir$_o$c	rrRir$_o$c	ir$_o$r$_o$r$_o$m$_o$	bccir$_o$m$_o$
19	Birr Castle ...	1007.9	+6	NNW	1	pr	56	92	8	8	1	-	7-8	10	1500	1	*	cprtl	cpr	cpr	cir
20	Valentia Obsy. †	1013.5	-6	NW'N	5	r$_o$r$_o$	55	92	6	6	2	-	9	10	800	1	4	cpr$_o$id$_o$c	cid$_o$pr$_o$r$_o$r$_o$	r$_o$r$_o$irPRpc	cbccpr$_o$c
	Roches Point ...	1009.1	-2	NW	6	c	58	85	8	6	1	5	4-6	9	1500	1	3	id$_o$ir$_o$	c	c	cir$_o$

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.*

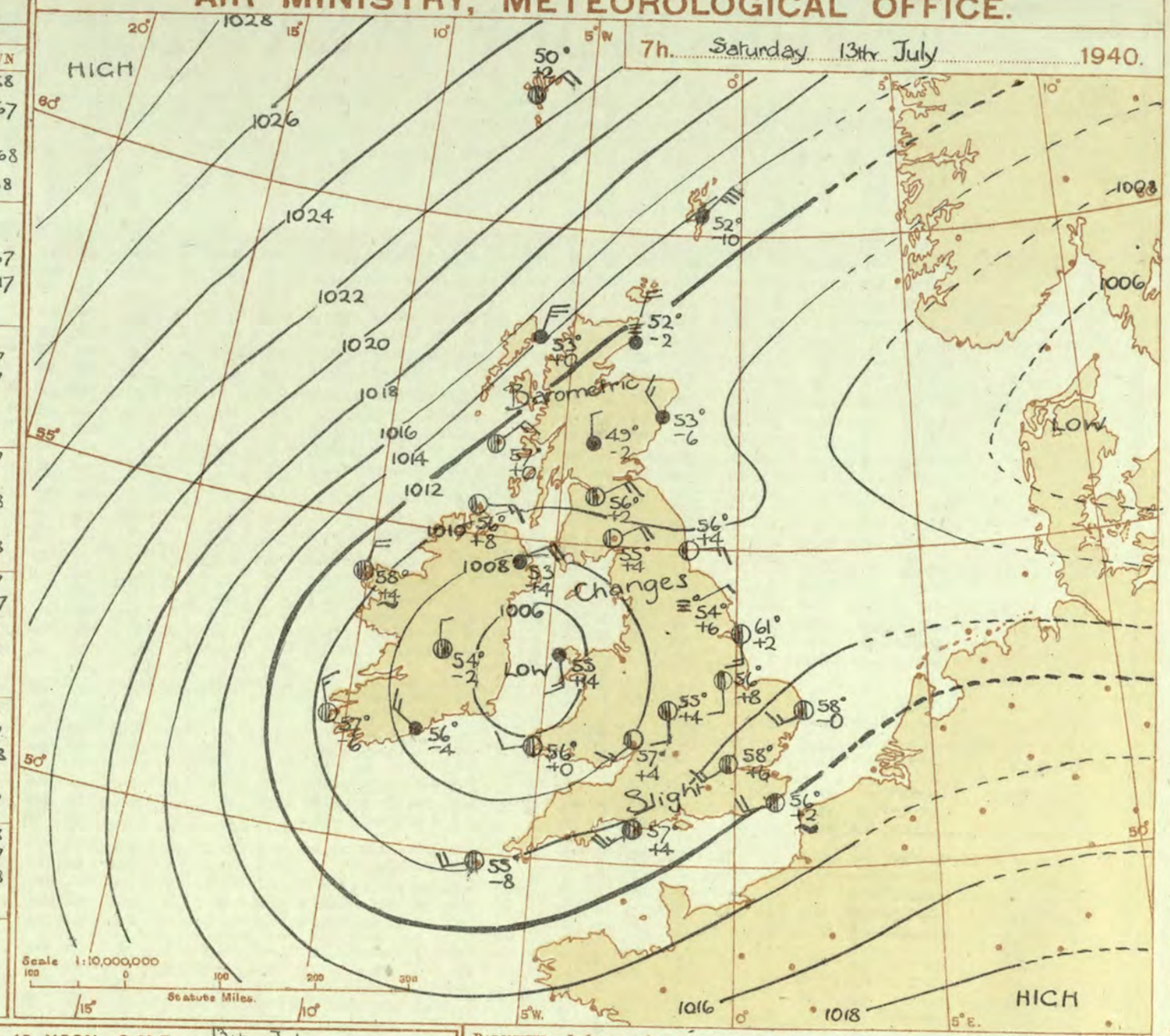
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 12th July			18h. G.M.T.			01h. G.M.T. 13th July			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-	08518	07248	--	08409	04269	--	53409	04449	5-	21528	04558
115 --	46009	08469	--	67009	08369	--	67009	08469	--	67009	08567
203											
206 52	02845	04428	84	02854	04227	52	61766	05168	02	62528	04368
210 51	61634	07428	27	02853	06427	62	62645	00068	5-	52528	02268
220			57	01841	05204						
230 87	02865	06226				57	00851	06112			
245 81	02855	06427	24	01853	05424	5-	03748	04428	52	62756	28267
260 59	02854	04115	33	02854	05425				5-	02737	06217
277 8-	02858	07468	57	22745	05288						
279											
285 2-	03868	10528	26	02845	08427				5-	02637	14427
288 82	02855	14426	8-	02855	12425	54	01754	06115	5-	01856	10217
273 33	05654	32316									
301 --	64534	12468	--	05657	10417				--	05554	10314
321 86	02745	50427	87	61863	50427	52	05645	14328	5-	05645	14227
299											
292 8-	02847	14327	87	25855	17285	8-	53638	10328	5-	05648	07268
310	63628	20568	·	46209	20449						
316			62	61544	14368	6-	02545	14127	8-	02645	16228
333 53	81740	22387	62	64635	24368				83	02735	20227
334	01854	18415	·	53547	26228				--	02657	20127
340 6-	53628	16588	97	22834	14367	52	51646	14328	53	05664	14315
136 33	81864	14315	86	01754	16485	5-	02648	16358	52	02736	16258
336 ·	64633	20468	·	22743	24468				--	02854	16317
350 83	02964	16426	5-	54738	15568				5-	02848	18228
368 62	64526	23668	5-	64628	24568	50	05644	22484	97	25736	20367
379 6-	62638	22468	6-	22638	20368				6-	02738	20328
390 83	25845	21487	8-	81758	20388	5-	21538	19268			
382 12	61643	16468	62	58736	16368	52	21646	17258	08	02836	18327
438 86	02754	22515							8-	02748	24528
430			5-	61748	54568	52	62635	20568	8-	21755	55437
409 52	62736	57768	52	62636	24668	5-	05638	24568	57	61727	22468

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 13th July 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. 13th July
1 S.E. England 2 E. England ...	Light or moderate southwest wind; cloudy, showers and local thunder in afternoon; cool.
3 E. Midlands ... 4 W. Midlands ...	Light south to southeast wind; cloudy, showers, local thunder in afternoon and evening, local fog or mist early morning; cool.
5 S.W. England	Moderate or fresh westerly wind, decreasing; cloudy, occasional rain or showers; cool.
6 South Wales ...	Light variable wind; cloudy, thundery rain or showers; cool.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Moderate southeast to east wind; mainly cloudy, showers and local thunder; cool.
10 N.E. England 11 S.E. Scotland	Light or moderate northeast wind; cloudy, rain later, local coast fog later; cool.
12 S.W. Scotland & Isle of Man.	Light or moderate east wind; cloudy, occasional rain; cool.
13 {A. W. Scotld. B.N.W. Scotland.} 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Fresh northeast wind, strong on coast; cloudy or dull, rain or drizzle at times, coast fog; cool.
17 N. W. Ireland 18 N. E. Ireland	Moderate northeast wind; mainly cloudy, showers, local thunder; cool.
19 S. E. Ireland 20 S. W. Ireland	Moderate north to northwest or variable wind; mainly cloudy, showers and local thunder; cool.

GENERAL INFERENCE.

A depression centred over the Irish Sea tends to move slowly southwest and is filling up. Another depression is probably centred near Denmark and an associated trough of low pressure extending to North Scotland will move slowly southwest. Weather will continue mainly cloudy and cool with showers and local thunder in many districts. More general rain will spread westwards across Scotland.

FURTHER OUTLOOK.

Unsettled and cool with further rain or showers in most 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.
C.64/2904 m.8049 a.3705 G.548 15800 8/40

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 13th July, 1940.

No. 28723

OBSERVATIONS at 1 hr. G.M.T. 13th July. — OBSERVATIONS at 7 hr. G.M.T. 13th July. — PAST 24 HOURS.

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

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	1010·6	-4	SW'S	3	o/r	56	92	7	5	-	-	10	10	1500
	S. Farnborough	226	1010·1	-4	SW	3	ir_o	55	85	6	6	2	-	7-8	10	800
	Boscombe Down	417	1009·7	-2	SW'S	3	r_or_o	54	97	6	6	2	-	9	10	800
	Calshot (Sthmtn.)	8	1010·6	-2	SE'E	4	r_or_o	57	92	6	5	-	-	10	10	1500
	Lympne ...	346	1013·0	-4	SW	4	r_or_o	54	97	6	6	2	-	7-8	10	450
	Manston ...	154	1011·7	-10	SSW	4	z_o	55	92	6	5	7	-	4-6	10	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1010·9	-6	SW	4	c	59	85	7	5	-	-	7-8	7-8	1500
	Gorleston ...	5	1011·0	-4	S'W	3	bc	57	85	7	5	-	-	4-6	4-6	2500
	Mildenhall ...	19	1009·6	-4	S'E	2	c	57	85	7	5	2	-	9	10	1500
	Cranwell ...	240	1008·9	+8	SSE	2	z_o	55	97	6	5	-	-	10	10	450
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1008·6	-2	SSW	3	r_or_o	54	97	6	5	-	-	10	10	450
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007·8	-6	W	6	r	56	97	7	6	2	-	9+	10	1500
	Bristol ...	209	1008·6	-2	SSW	2	rr	55	97	5	8	-	-	10	10	1500
	Portland Bill ...	32	1010·0	0	SW	5	rr	56	92	7	5	-	-	10	10	2800
	Plymouth ...	82	1010·7	-4	W	5	id	56	92	5	6	2	-	9	10	450
	The Lizard ...	240	1012·1	-8	W'S	6	pr	54	97	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	163	1012·0	-6	W'N	5	c/pr	55	97	7	9	2	-	7-8	10	800
	Guernsey ...	175														
6	Pembroke ...	142	1006·9	0	WNW	4	c	56	92	7	8	-	-	7-8	7-8	800
7	Holyhead ...	26	1003·8	0	NNE	3	c	56	92	7	5	-	-	9+	9+	2500
	Chester (Sealand)	16	1005·7	+2	SE	3	c/d	55	85	6	5	2	-	7-8	10	1500
8	Manchester ...	70	1006·9	-2	ESE	3	z_o	55	92	6	5	1	-	4-6	9+	2500
10	Spurn Head ...	29	1009·0	0	SE	3	o	57	85	6	5	-	-	9+	9+	800
	Catterick ...	175	1008·8	+2	NE	1	z_o	54	92	6	5	-	-	9+	9+	1500
	Tynemouth ...	108	1009·7	+2	SE	3	bc	55	97	6	2	4	-	2-3	4-6	2500
11	St. Abbs Head	280	1011·4	-2	NE	4	bc	54	92	8	4	6	2	4-6	4-6	2500
	Leuchars ...	36	1012·0	-4	NE	3	z_o	55	97	6	5	2	-	4-6	10	800
12	Renfrew (Abbots I.)	19	1011·1	+2	ENE	3	bc	54	85	7	5	3	1	2-3	2-3	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1006·5	+4	E'S	3	c	57	85	7	5	2	-	7-8	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1015·2	0	NNE	4	c	54	97	7	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1013·3	-6	NNE	4	dF	53	97	1	-	-	-	10	10	<150
16	Lerwick ...	156	1013·1	-2	NE'N	7	o	52	97	6	5	-	-	10	10	450
17	Blacksod Point	18	1010·1	-4	NW	3	c	56	97	7	5	-	-	9	9	800
18	Malin Head ...	84	1011·0	+10	E	3	c	56	85	8	8	-	-	7-8	7-8	5700
	Aldergrove ...	268	1007·8	0	NE'E	4	c	54	92	7	5	3	-	4-6	9	2500
19	Birr Castle ...	173	1007·8	-6	NNW	1	pr	52	97	7	9	2	-	7-8	10	1500
20	Valentia Obsy.	30	1011·2	-12	NW'N	4	c/pr	56	97	7	6	-	-	9+	9+	1500
	Roches Point	22	1008·7	-8	WNW	3	c	56	92	8	5	-	-	7-8	7-8	1500

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

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)	1010·6	+6	SW	3	pr	59	85	8	5	3	-	9	9+	1500	1	*
Croydon	1010·8	+6	SW	3	c	58	85	8	5	3	-	4-6	9	800	1	*
S. Farnborough	1010·6	+6	SW'S	4	c/r	58	85	8	8	3	5	4-6	7-8	2500	1	*
Boscombe Down																*
Calshot (Sthmtn.)	1010·7	+4	SW'W	4	c/pr	59	85	7	8	3	1	7-8	9	1500	1	3
Lympne	1012·9	+2	WSW	4	c/d	56	55	7	8	4	-	7-8	9	800	1	4§
Manston	1011·5	+2	SW'W	5	ir_o	56	85	7	8	4	-	7-8	9+	800	1	*
Shoeburyness	1011·5	+4	SW	3	c	61	97	8	8	5	-	7-8	9	2500	1	*
Felixstowe	1011·0	+4	WSW	4	c	60	85	8	6	-	-	9+	9+	1500	1	3
Gorleston	1010·4	0	SW	3	c	58	85	7	5	-	-	9	9	2500	0	2
Mildenhall	1005·8	+2	S'W	2	c	58	85	7	5	1	-	7-8	9+	1500	0	*
Cranwell	1009·4	+8	S	2	c	56	92	7	5	-	-	9+	9+	1500	1	*
Birmingham	1008·8	+4	S	2	c	55	92	7	5	-	-	9+	9+	800	1	*
Upper Heyford	1009·0	+2	SSW	3	c	56	92	8	5	1	-	9	10	800	1	*
Ross-on-Wye	1008·3	+4	SW'S	3	bc	57	85	7	9	4	-	2-3	4-6	2500	1	*
Hartland Point	1007·8	+2	W	4	cjp	57	92	7	3	4	5	4-6	7-8	1500	1	3
Bristol	1009·0	+6	SSW	2	c/pr	56	92	8	8	6	8	4-6	9	1500	1	*
Portland Bill	1010·8	+4	SW	5	c	57	85	8	5	-	-	10	10	4000	1	4
Plymouth	1009·9	0	WSW	5	ir_o	55	92	6	6	-	-	10	10	1500	1	3
The Lizard	1010·6	-6	W	5	c	55	97	7	8	2	-	7-8	9+	2500	1	3
Scilly (St. Mary's)	1011·5	0	NE	3	c	57	85	8	5	3	-	4-6	7-8	4000	0	3
Guernsey																
Pembroke	1007·0	0	W'S	3	c	56	92	7	8	7	-	4-6	9	800	1	2
Holyhead	1005·2	+14	S'E	3	pr	55	97	6	9	-	-	9+	9+	450	1	2
Chester (Sealand)	1007·7	+14	SE'E	2	z_o	56	85	6	5	3	-	4-6	9+	2500	1	*
Manchester	1008·0	+10	SE	2	z_o	58	75	6	8	3	-	4-6	7-8	2500	0	*
Spurn Head	1009·0	+2	S	3	c	61	85	6	8	-	-	7-8	7-8	1500	0	2
Catterick	1009·7	+6	ENE	1	m	54	92	4	5	-	-	10	10	1500	1	*
Tynemouth	1009·9	+4	E	3	bc	56	97	7	2	3	-	4-6	4-6	2500	1	2
St. Abbs Head	1011·2	0	NNE	2	c	53	97	7	8	6	1	7-8	9	1500	1	1*
Leuchars	1011·1	-2	NE	2	c	55	97	8	5	7	1	4-6	9	2500	0	*
Renfrew (Abbots I.)	1011·4	+2	ENE	3	c	56	75	8	8	-	8	9	9+	2500	1	*
Eskdalemuir	1009·8	+4	ENE	4	bc	55	85	7	5	3	1	2-3	4-6	2500	1	
Point of Ayre	1007·2	+6	ESE	4	c	57	92	7	8	2	-	7-8	10	1500	1	3
Tiree	1011·5	0	NE	3	c	57	85	8	5	3	-	4-6	7-8	4000	0	3
Stornoway	1015·3	0	NNE	5	dd_o	53	97	6	5	-	-	10	10	800	1	3
Dalwhinnie	1011·4	-2	N	1	r_or_o	49	97	6	5	-	-	10	10	800	1	*
Aberdeen	1011·1	-6	NW'N	3	rr	53	97	6	6	-	-	10	10	450	1	1
Wick	1012·4	-2	NNE	4	d	52	97	4	5	2	-	10	10	800	1	2
Lerwick	1012·8	-10	NE	7	id	52	97	6	5	-	-	10	10	450	1	*
Blacksod Point	1010·1	+4	N'E	4	c	58	85	8	3	4	4	2-3	9	1500	0	4
Malin Head	1010·6	+8	E	3	bc	56	85	8	1	7	-	2-3	4-6	5700	0	3
Aldergrove	1007·9	+4	NE'E	4	ir_o	53	92	6	6	2	-	7-8	10	800	1	*
Birr Castle	1007·1	-2	N	1	o/r	54	97	7	5	-	-	10	10	2500	1	*
Valentia Obsy.	1009·0	-6	N'W	3	c	57	85	8	8	-	1	7-8	7-8	2500	1	3
Roches Point	1007·1	-4	WNW	3	ir_o	56	97	7	6	2	-	7-8	9+	1500	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 12th. Hrs. (36)
London (Kew)	64	57	54	0·3	2	7·9
Croydon	66	55	53	1	1	7·5
S. Farnborough	64	55	53	1	1	5·6
Boscombe Down	58			2		
Calshot (Sthmtn.)	63	56	55	5	2	1·4
Lympne	65	54	53	0·1	2	10·4
Manston	69	55	54	0·1	1	11·8
Shoeburyness	69	57	54	2	0·1	8·8
Felixstowe	69	57	55	Tr	0·1	13·4
Gorleston	66	54	51	0·1	-	13·2
Mildenhall	69	56	50	-	Tr	10·8
Cranwell	66	53	53	0·2	1	8·1
Birmingham	58	53	50	2*	1	1·3
Upper Heyford	60	56	51	3	1	*
Ross-on-Wye	62	54	48	1	2	1·6
Hartland Point	56	55	54	13	9	0·0
Bristol	57	54	52	17	9	0·1
Portland Bill	59	55	*	2	1	*
Plymouth	58	55	54	1	2	0·0
The Lizard	61	53	*	-	3	1·3
Scilly (St. Mary's)	62	52	*	0·1	-	7·7
Guernsey						
Pembroke	58	54	*	8	-	0·0
Holyhead	59	55	52	1	1	1·1
Chester (Sealand)	59	54	51	44	2	0·2
Manchester	58	55	54	1	-	1·8
Spurn Head	67	56	*	-	Tr	12·0
Catterick	63	53	50	1	Tr	3·7
Tynemouth	58	54	51	-	-	*
St. Abbs Head	59	53	*	-	Tr	*
Leuchars	61	52	51	-	-	1·7
Renfrew (Abbots I.)	63	51	44	-	-	5·1
Eskdalemuir	60	50	49	Tr	Tr	1·5
Point of Ayre	57	54	*	17	2	0·0
Tiree	62	52	*	-	-	7·7
Stornoway	56	53	*	1	0·4	0·0
Dalwhinnie	63	46	38	Tr	3	5·9
Aberdeen	60	51	50	-	10	3·6
Wick	56	52	*	2	1	*
Lerwick	55	52	*	Tr	Tr	0·0
Blacksod Point	60	54	*	2	-	*
Malin Head	60	54	*	-	-	4·8
Aldergrove	58	52	49	6	0·6	0·3
Birr Castle	62	51	51	9	7	0·7
Valentia Obsy.	56	55	52	1	4	0·0
Roches Point	60	54	*	0·6	0·5	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset. hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	cprc	cpr_ocpr_o	cr_orcr_o	64	57	54	0·3	2	7·9	*	*	8
Croydon ...	217	bcyprq	cprbcdtl	cir_oidc	66	55	53	1	1	7·5	*	*	8
Greenwich (Royal Observatory) ...	149	cr	rcy	$crdd_oc$	67	54	52	1	0·5	6·8	55	69	7
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	65	56	55	1			72	78	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	68	56	54	1	1		56	70	*
Camden Square ...	110	bc	c	*	67	56	54	-	1	*	*	71	*
Kensington ...	80	c	bc	*	67	56	53	0·6	1		65	67	*
Hampstead Observatory ...	450	bcp	or	orbc	65	53	49	-	1		*	92	*

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.
<0·1	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.

		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.

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

Sunday 14th July, 1940.

No. 28724.

OBSERVATIONS at 13h. G.M.T. 13th July,

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	SW	4	bc	63	65	8	8	3	1	4-6	7-8	2800
	Croydon ...	1011.7	+6	SW'S	4	c	65	65	8	2	3	3	4-6	7-8	2500
	S. Farnborough	1011.3	+2	SSW	4	c	65	55	8	8	3	4	7-8	7-8	2500
	Boscombe Down	1010.7	+2	SSW	4	c/pr	62	75	8	8	7	1	4-6	7-8	2500
	Calshot (Soton.)	1012.1	+6	WSW	5	bc	64	75	8	2	-	4	4-6	4-6	2500
	Lympne ...	1013.6	+2	SW	4	bc	64	65	8	2	-	-	4-6	4-6	2500
	Manston ...	1012.5	+2	SW	5	bc	66	65	8	8	-	3	4-6	4-6	1500
2	Shoeburyness ...	1012.0	0	SW'S	4	bc/pr	69	66	8	8	-	-	4-6	4-6	4000
	Felixstowe ...	1011.4	+6	SW'S	5	pr	66	75	8	3	6	3	4-6	7-8	2500
	Gorleston ...	1011.2	0	SSE	3	c	63	65	7	8	-	-	7-8	7-8	2500
	Mildenhall ...	1010.2	-2	SSW	2	c/pr	68	65	8	8	-	-	7-8	7-8	2500
	Cranwell ...	1010.0	-2	S'W	1	c	63	75	8	8	7	-	9	9+	2500
3	Birmingham	1009.2	+4	S	3	bc	64	69	8	8	7	1	4-6	7-8	2500
	Upper Heyford	1010.2	+6	SW'S	2	c/pr	59	92	6	9	6	-	9+	9+	1500
4	Ross-on-Wye ...	1009.3	0	S'W	3	bc	63	75	8	9	6	3	2-3	4-6	2500
5	Hartland Point	1008.6	+2	SW	3	bc	59	97	8	3	-	1	4-6	4-6	1500
	Bristol ...	1010.3	+4	S'E	3	c/pr	59	92	8	8	6	-	7-8	9+	1500
	Portland Bill ...	1011.4	+4	SW	5	c	59	92	8	2	4	1	7-8	10	4000
	Plymouth ...	1010.1	+2	S'W	3	c	60	85	8	3	3	8	4-6	9	2500
	The Lizard ...	1010.2	-4	W'S	2	c	63	75	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1009.4	-2	SW'W	3	c/pr	63	86	8	8	4	3	4-6	9	1500
	Guernsey ...														
6	Pembroke ...	1007.6	0	SW'S	2	bc	61	85	6	5	-	-	4-6	4-6	1500
7	Holyhead ...	1008.4	+10	SSW	2	bc	64	75	8	3	-	-	2-3	2-3	2500
	Chester (Sealand)	1008.7	+6	SSW	2	bc	69	55	7	2	6	-	7-8	7-8	2500
8	Manchester ...	1009.0	+2	ESE	2	bc	67	65	7	7	-	-	7-8	7-8	4000
10	Spurn Head ...	1010.0	0	NE'E	2	c	65	92	6	2	-	-	7-8	7-8	1500
	Catterick ...	1010.0	+2	—	0	pr	62	75	6	8	-	-	9	9	4000
	Tynemouth ...	1010.9	+4	NE	3	bc	59	92	8	2	-	1	2-3	4-6	2500
11	St. Abbs Head	1012.2	+2	N	1	c	59	75	8	7	6	2	4-6	7-8	2500
	Leuchars ...	1011.2	-2	NNW	1	pr	60	65	8	8	7	-	9	9+	2500
12	Renfrew (Abbots I.)	1010.9	-6	E	2	bc	68	45	9	8	3	6	1	7-8	2500
	Eskdalemuir ...	1009.9	+2	E	3	bc	64	65	8	8	-	1	7-8	7-8	2500
	Point of Ayre ...	1009.6	+12	E'S	2	bc	62	85	7	1	4	-	1	2-3	2500
13A	Tiree ...	1012.2	+2	NNE	3	dr	55	97	7	-	2	-	9+	9+	1500
13B	Stornoway ...	1015.5	+4	NNE	6	d_0d_0	55	97	6	5	2	-	7-8	10	450
15	Dalwhinnie ...	*	+2	NE	1	r_0r_0	52	97	6	5	-	-	10	10	800
	Aberdeen ...	1011.5	+2	N'W	3	ir_0	56	92	7	5	-	-	10	10	1500
	Wick ...	1012.7	+2	NNE	5	d_0d_0	53	97	5	5	2	-	7-8	10	800
16	Lerwick...	1012.7	-2	NE	7	o	53	92	6	5	-	-	10	10	450
17	Blacksod Point..	1010.5	0	N'E	6	bc	60	85	8	-	4	-	0	4-6	-
18	Malin Head ...	1011.6	+4	NNE	3	bc	60	86	8	1	3	2	1	4-6	5700
	Aldergrove ...	1009.6	+4	E'N	4	c	61	75	7	3	-	-	7-8	7-8	4000
19	Birr Castle ...	1006.9	-4	N'E	1	c/r	60	85	8	8	1	-	7-8	9	1500
20	Valentia Obsy. †	1008.7	-2	N'E	4	c/pr	58	92	7	8	7	-	7-8	9+	2500
	Roches Point ...	1006.8	-2	NW	2	c	60	85	8	8	-	5	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 13th July,

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)	1011.2	-2	SW'S	3	bc	65	45	8	7	-	4	1	4-6	4000	1	*
Croydon	1011.2	-2	SW'S	3	bc	65	55	8	4	-	4	1	4-6	4000	0	*
S. Farnborough	1010.9	-2	SW	4	bc	63	45	8	7	4	4	2-3	7-8	4000	0	*
Boscombe Down	1010.8	0	SSW	4	c	61	65	8	8	3	2	4-6	9	4000	1	*
Calshot (Soton.)	1011.4	-6	SW'S	2	bc	64	65	8	2	4	2	4-6	7-8	4000	0	2
Lympne	1013.4	-2	SW	3	b	62	55	9	1	3	-	Tr	1	2500	0	§3
Manston	1012.0	-4	SW'S	4	bc	64	55	8	8	4	3	1	2-3	1500	0	*
Shoeburyness	1012.0	0	SW'S	3	bc	64	55	8	1	-	1	Tr	2-3	4000	0	*
Felixstowe	1011.2	-2	SW'S	4	bc	66	55	8	2	6	3	Tr	Tr	4000	0	2
Gorleston	1011.1	0	S	2	c/pr	64	65	7	8	-	-	7-8	7-8	2500	1	2
Mildenhall	1010.5	0	SW	1	c	62	85	8	8	6	-	4-6	7-8	4000	1	*
Cranwell	1010.0	+2	SSW	2	c	62	75	8	5	3	-	4-6	9+	7200	0	*
Birmingham	1009.1	0	S	4	bc	66	55	8	2	6	-	2-3	4-6	4000	1	*
Upper Heyford	1010.2	0	S'W	4	bc	62	75	7	8	6	2	4-6	7-8	1500	1	*
Ross-on-Wye	1009.5	+4	SSW	3	bc	62	75	8	8	5	1	2-3	4-6	4000	1	*
Hartland Point	1008.6	+2	WSW	3	cjp	61	85	8	3	6	3	4-6	7-8	2500	1	2
Bristol	1009.9	-4	S'W	2	c/pr	59	85	8	8	6	1	7-8	9	2500	1	*
Portland Bill	1010.8	-6	SSW	3	c	59	85	8	5	4	1	4-6	9	4000	1	3
Plymouth	1009.8	-2	S	3	c/d	58	75	7	2	3	-	4-6	9	1500	1	2
The Lizard	1009.8	+2	SSW	2	rr	57	92	6	5	-	-	10	10	1500	1	2
Scilly (St. Mary's)	1008.6	-4	SSW	2	c/pr	56	97	8	8	7	-	7-8	9+	1500	1	2
Guernsey																
Pembroke	1008.4	0	SSW	2	bc	61	85	7	8	4	3	2-3	4-6	1500	1	2
Holyhead	1008.9	+2	~	0	bc/r	58	92	7	9	2	-	4-6	4-6	1500	1	0
Chester (Sealand)	1008.5	+8	ESE	2	z_0	67	65	7	8	3	-	7-8	7-8	4000	1	*
Manchester	1008.8	-2	SE	1	c/pr	63	65	6	8	3	-	4-6	7-8	4000	0	*
Spurn Head	1009.5	0	E'S	3	c	63	85	6	2	-	1	4-6	7-8	1500	0	1
Catterick	1010.1	+4	N	3	z_0	63	75	6	-	3	5	0	4-6	-	1	
Tynemouth	1011.5	+2	NE	3	bc	57	85	8	2	3	2	2-3	4-6	2500	1	1
St. Abbs Head	1011.4	-6	—	0	c	53	85	8	5	7	-	4-6	10	2500	0	1
Leuchars	1011.2	0	—	0	r_0r_0	58	92	6	5	-	-	10	10	800	1	*
Renfrew (Abbots I.)	1010.7	+2	NE'N	3	ir_0	63	75	9	5	7	-	4-6	10	4000	0	*
Eskdalemuir	1009.6	-2	ENE	2	c	63	65	8	8	3	6	2-3	9	2500	1	*
Point of Ayre	1009.7	0	—	0	bc	63	85	8	-	-	5	0	2-3	-	0	1
Tiree	1012.0	0	N'E	2	c	56	97	8	5	-	-	9+	9+	2500	1	2
Stornoway	1015.5	0	NNE	6	d_0d_0	53	97	6	5	2	-	9	10	800	1	3
Dalwhinnie	*	0	NE	1	c	52	97	5	5	-	-	10	10	800	1	*
Aberdeen	1010.9	-2	N'W	3	ir_0	55	97	6	6	-	-	10	10	450	1	1
Wick	1012.6	0	NNE	4	d_0d_0	53	97	5	5	2	-	7-8	10	450	1	2
Lerwick	1012.5	0	NE	8	c	53	85	6	5	7	-	7-8	9	800	1	*
Blacksod Point	1010.8	+4	N'E	6	bc	60	85	8	-	4	-	0	2-3	-	0	4
Malin Head	1011.9	0	NNE	3	bc	58	92	8	-	-	2	0	2-3	-	0	2
Aldergrove	1009.8	+2	NE'N	3	bc	64	65	7	1	5	-	Tr	4-6	2500	1	*
Birr Castle	1008.0	+6	NE	1	c	61	75	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy. †	1008.4	-6	N	4	c/pr	60	85	8	8	7	-	7-8	9+	1500	1	3
Roches Point	1007.1	+2	SSW	1	bc	58	85	8	8	3	-	4-6	4-6	2500	1	1

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 13th (37)	13h.—18h. 13th (38)	18h. 13th to 1h. 14th (39)	1h.—7h. 14th (40)
London (Kew)	cqprbc	bcy	bcybc	bcw
Croydon	cpr$_0$c	cbcy	bcwbcw	bwm$_0$bc
S. Farnborough	cpr$_0$ ⊕	cybc ⊕	bcbw	bcprc
Boscombe Down	cpr	c	bc	bc
Calshot (Soton.)	cir$_0$prbc	bc	bc	bcbcw
Lympne	cbc	bcby	bybc	bce
Manston	mVcip$_0$pr$_0$	bcb	bw	c
Shoeburyness	cpr$_0$	bcy	byb	bwm$_0$c
Felixstowe	ccpr$_0$q	prbvy	bvyb	bbcm$_0$
Gorleston	cpr$_0$bcc	cpr$_0$	cpr$_0$bc	bcb
Mildenhall	cpr$_0$bc	bccpr$_0$c	cbcb	bbcw
Cranwell	cpr$_0$c	cbcc	c,bw	bcm$_0$cm$_0$
Birmingham	cpr$_0$bc	bc	bc	bc
Upper Heyford	ccprcm$_0$	cm$_0$prcbc	bcb	bcbm$_0$bcm
Ross-on-Wye	bcctirc	ctPcbc	bcc	bbcc
Hartland Point	cpbc	bcc	bccp	cr$_0$
Bristol	cpRpr$_0$	ciRpr$_0$c	cbcm$_0$	bmw
Portland Bill	cc	cc	c	cPR
Plymouth	cid$_0$m$_0$c	cr$_0$id$_0$c	cir$_0$ir	cirbcm$_0$
The Lizard	c	cprrr	rrcbc	cbc
Scilly (St. Mary's)	cp$_0$	crp	cpcbc	bcc
Guernsey				
Pembroke	cpr$_0$m$_0$bc	bc	cr$_0$r$_0$	bcprc
Holyhead	pr$_0$m$_0$bc	crrbc	bc	bccm$_0$o
Chester (Sealand)	cm$_0$bcz$_0$y	bcz$_0$yc	cz$_0$bccm$_0$w	cbcm$_0$[illegible]
Manchester	cz$_0$c	cyz$_0$pr$_0$	cm$_0$mfm	cm$_0$fg
Spurn Head	bcc	c	wc	cwo
Catterick	cmm$_0$pr$_0$	pr$_0$cbc	cm$_0$cm	cm$_0$
Tynemouth	bc	bc	bcc	coir
St. Abbs Head	c	c	drrmo	rrm$_0$o
Leuchars	c,cpr$_0$	pr$_0$cir$_0$r$_0$m$_0$	cr$_0$rrd$_0$r$_0$	cm$_0$ir$_0$ir$_0$r$_0$
Renfrew (Abbots I.)	cy	cyc	cr$_0$RIr$_0$m$_0$	cm$_0$ir$_0$r$_0$
Eskdalemuir	bc	bcc	c	corrR
Point of Ayre	cp$_0$fbc	bbc	bcc	cr$_0$r$_0$
Tiree	cd$_0$dr	d$_0$c	c	cbc
Stornoway	cd$_0$d$_0$	cr$_0$r$_0$	cd$_0$d$_0$	c
Dalwhinnie	r$_0$r$_0$	ir$_0$	•	cir$_0$
Aberdeen	r$_0$cir$_0$	cir$_0$	oir$_0$	oir$_0$
Wick	d$_0$dm$_0$	d$_0$dm$_0$	d$_0$d$_0$m$_0$	d$_0$dc
Lerwick	oidm$_0$	ocm$_0$	cm$_0$ (gale)	c (gale)
Blacksod Point	bc	bcv	bc	c
Malin Head	bcbc	bc	cpr$_0$c	cpr$_0$c
Aldergrove	ir$_0$m$_0$c	cbc	bccw	cir$_0$r$_0$r$_0$m$_0$
Birr Castle	cir cpr	c	bcb	
Valentia Obsy. †	crrr$_0$r$_0$iR	cprpr$_0$c	cprpr$_0$bcb	bbc
Roches Point	pr$_0$c	pr$_0$bc	bcw	bcwbc

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.*

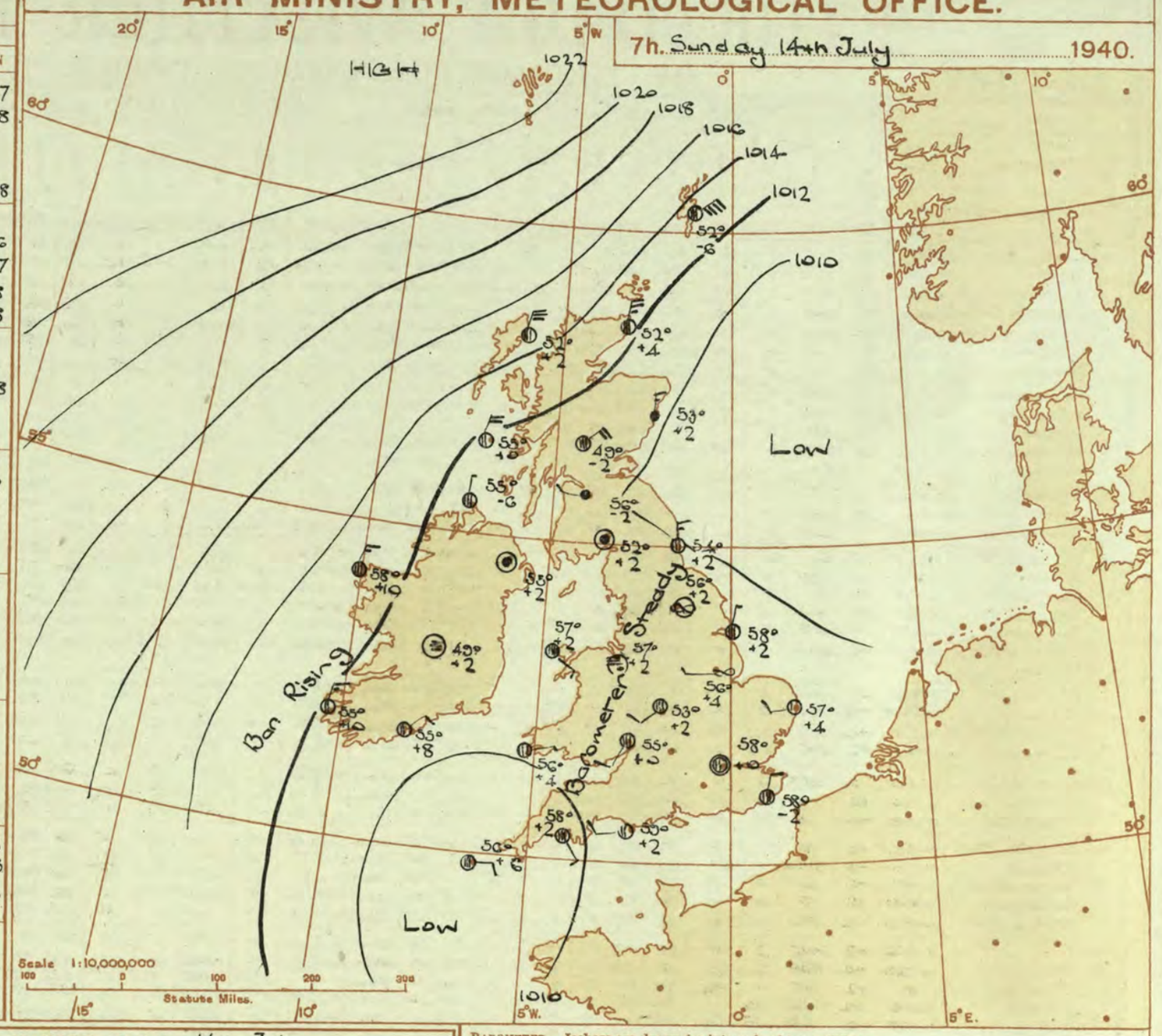
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 13th July			18h. G.M.T.			01h. G.M.T. 14th July			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-	51638	02558	5-	03638	02558	5-	03648	04628	5-	02647	03627
115	--	67209	08569	--	44309	05569	52	03724	05548	52	03835	04628
203												
206	8-	62748	04268	62	52735	02168						
210	52	62527	02368	52	21607	02468	52	52616	32458	52	54517	02458
220	62	64625	03468	52	03734	04628						
230	52	21856	02358	57	61856	31268	57	02855	02227	57	02972	02426
245	5-	02957	30367	5-	13936	32368	5-	02757	04327	62	22945	63467
260	13	01862	04115	07	02890	04127	62	62623	00068	62	22726	04268
277	23	02864	12324	15	02861	29224	07	02790	32227	52	64665	28368
279												
285	8-	02746	14526									
288	8-	17665	04325	20	01861	02314	5-	08438	02228	52	51445	00028
273	36	02654	03686									
301	--	05656	06216	--	05662	07213						
321	80	02766	16116	20	01753	14113	50	05563	00013	5-	05638	30128
299	70	05653	12213	70	05654	14214	5-	68448	28228	82	05645	28328
292	8-	02857	00017	8-	01864	07314	50	08443	29168	52	05565	30148
310		02636	16326									
316	87	02657	14127	87	05654	12226						
333	26	01753	14213	23	01752	32214				53	02646	28167
334		02865	16215		01864	00014						
340	83	01854	14315				50	01753	24113			
136	83	02864	18386	87	81764	22185	07	05690	20283	04	05690	00015
336		02853	20415		01853	16414						
350	86	82758	18486							07	00790	18103
368	87	25844	22285	97	02854	16287	5-	02756	06186	84	01843	12213
379	83	02743	26426	83	02744	28325	04	01790	20413	25	01751	20114
390	83	01754	21418	16	00861	17311				53	01761	24113
382	27	02846	16426	76	01853	16324	04	01790	00003	14	01851	20113
438	80	12744	24424							54	01753	00013
430	20	01754	52414	83	01863	16314	40	15661	00011	83	02754	00015
409	84	01843	21425	8-	95848	00018	57	05744	14265	83	01741	08252

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 14th July 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. 14th July
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light variable wind; showers with hail and thunder locally at first; cloudy later with some rain in north of area; average temperature.
5 S.W. England 6 South Wales ...	Light southeast or variable wind; showers with local hail and thunderstorms in afternoon and evening; fair later; average temperature.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light variable or northerly wind; cloudy, rain spreading slowly southwards over area; average temperature.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light variable or northeast wind; dull and rainy; coastal fog in east; cool.
13 A. W. Scotld. B.N.W.Scotland.	Fresh or strong northerly wind; cloudy, occasional rain; average temperature.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Fresh northeast wind strong to gale at exposed places; dull, some rain or drizzle especially on coast and hills; coast and hill fog; average temperature.
17 N. W. Ireland	Moderate northerly wind, cloudy, occasional rain; average temperature.
18 N. E. Ireland	Light variable or northerly wind; cloudy, rain spreading slowly southwards over area; average temperature
19 S. E. Ireland 20 S. W. Ireland	Light variable or northerly wind, variable cloud, occasional showers; average temperature.

GENERAL INFERENCE.

A shallow depression off Southwest England is moving slowly southwards and filling up. A depression is indicated near Denmark and an associated trough of low pressure to Scotland is moving slowly south. The dull and rainy weather now over most of Scotland will spread slowly south but over most of England, Wales and Ireland there will be bright periods, showers and local thunder.

FURTHER OUTLOOK.

Continuing unsettled. Rain spreading slowly southwards over England. A decreasing tendency for thunder.

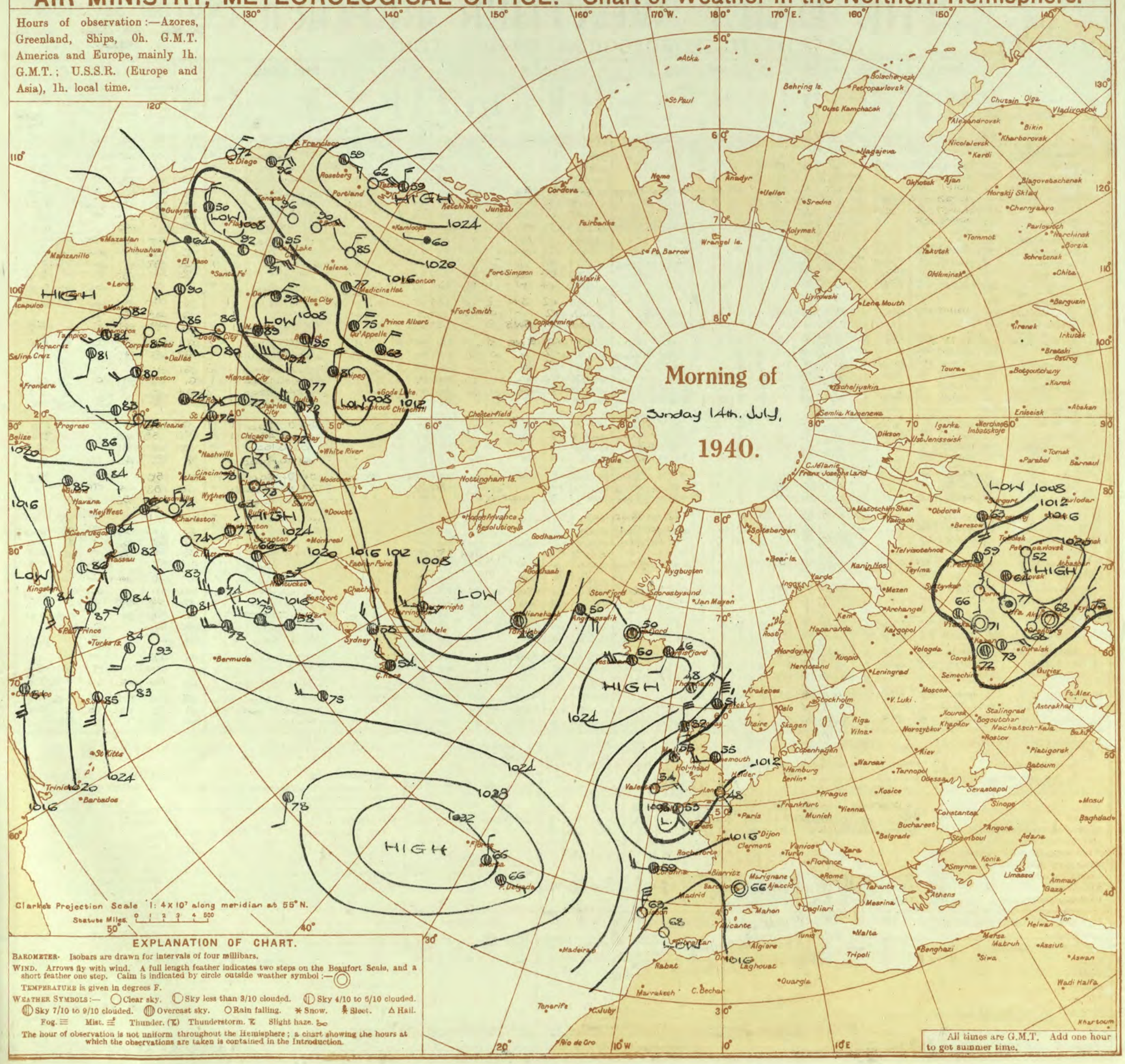
Forecasts issued at 10.30 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.
G.64/3992. No. 3045. D. 3705. G. 548. (3803.8/40)

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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 14th July 1940.

No. 28724.

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

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	1011.5	-2	S'E	1	b	48	97	6	-	-	4	0	Tr	-
	S. Farnborough	226	1011.3	0	-	0	fg	44	97	6	-	-	1	0	1	-
	Boscombe Down	417	1011.1	-4	-	0	bc	50	97	7	5	4	1	2-3	4-6	4000
	Calshot (Sthmtn.)	8	1010.9	-2	SSE	2	z	56	92	6	-	3	1	0	4-6	-
	Lympne ...	346	1012.7	-6	E'N	2	bc	49	85	7	5	-	-	2-3	2-3	4000
	Manston ...	154	1011.2	-8	-	0	c	53	85	7	5	-	-	7-8	7-8	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1011.3	-6	W'N	1	b	57	85	8	-	-	-	0	0	-
	Gorleston ...	5	1010.8	-6	SW'W	2	bc	56	85	6	5	-	-	4-6	4-6	2500
	Mildenhall ...	19	1011.1	0	SSW	2	b	52	85	7	5	3	-	1	1	4000
	Cranwell ...	240	1010.4	-2	W'S	2	b	53	92	7	-	4	1	0	1	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1011.3	+2	SSW	1	bc	49	92	7	-	4	8	0	2-3	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1009.7	+2	S	3	r	55	97	7	5	2	-	4-6	9	1500
	Bristol ...	209	1011.0	+2	-	0	z	48	97	6	5	-	2	2-3	2-3	4000
	Portland Bill ...	32	1010.3	+8	SSW	3	c	57	92	8	5	-	-	10	10	2500
	Plymouth ...	82	1009.9	-2	SW	1	rr	55	97	6	8	2	-	4-6	10	1500
	The Lizard ...	240	1009.2	-4	-	0	bc	58	97	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1008.6	0	SE'S	1	bc	53	97	8	8	4	-	4-6	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	1010.1	0	E'N	:	rr	55	97	6	8	-	-	7-8	7-8	800
7	Holyhead ...	26	1009.9	+2	WNW	2	c	57	92	6	5	-	-	7-8	7-8	2500
	Chester (Sealand)	16	1010.0	+2	-	0	z	56	92	5	5	-	-	7-8	7-8	4000
8	Manchester ...	70	1010.1	+2	NE	1	m	55	92	4	5	3	-	7-8	9	4000
10	Spurn Head ...	29	1010.0	0	-	0	c	57	97	6	5	-	-	9	9	2500
	Catterick ...	175	1011.2	-2	-	0	m	55	92	4	5	2	-	4-6	10	1500
	Tynemouth ...	108	1011.5	-4	W	3	c	55	92	6	8	-	-	9+	9+	2500
11	St. Abbs Head	280	1011.2	-4	NW	2	rr	53	97	4	5	-	-	10	10	800
	Leuchars ...	36	1010.7	-8	-	0	z	56	92	6	5	7	-	4-6	10	2500
12	Renfrew (Abbots I.)	19	1011.3	-6	-	0	c/r	57	97	5	5	7	-	7-8	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1010.5	+6	NW'W	1	c/f	56	97	7	5	1	-	4-6	10	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1016.1	0	NNE	6	c/d	52	92	7	5	2	-	9	0	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1013.5	+2	NNE	4	dd	51	97	5	5	3	-	7-8	10	450
16	Lerwick ...	156	1013.4	+4	NNE	8	c	51	92	6	8	7	-	7-8	9	800
17	Blacksod Point	18	1012.4	+6	N'E	4	bc	57	92	7	-	4	-	0	4-6	-
18	Malin Head ...	84	1012.5	+4	NE'N	2	c	55	97	6	6	-	-	9	9	2500
	Aldergrove ...	268	1011.2	+2	-	0	c	51	92	7	-	7	7	0	10	-
19	Birr Castle ...	173	1011.1	+6	N'E	1	b	49	97	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1010.3	+10	E	3	b	54	92	7	5	-	-	Tr	Tr	1500
	Roches Point	22	1009.8	+8	E'N	2	bc	54	97	7	5	-	-	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 14th July. — 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 13th Hrs. (36)
London (Kew)	1011.3	+2	-	0	bc	56	85	8	5	-	2	Tr	2-3	4000	1	*	66	48	27	0.2	-	9.6
Croydon	1011.1	0	-	0	bc	58	75	7	5	4	4	Tr	2-3	4000	0	*	67	47	40	0.1	-	9.3
S. Farnborough	1011.2	0	-	0	bc	53	85	7	8	8	-	4-6	4-6	2500	0	*	69	39	33	Tr	-	8.1
Boscombe Down	1010.7	-2	ESE	1	c	56	92	7	5	3	-	7-8	7-8	4000	1	*	65	46	39	Tr	-	5.8
Calshot (Sthmtn.)	1010.8	+2	ESE	2	c	59	92	7	8	6	-	7-8	9	1500	0	§	65	51	48	0.4	-	8.8
Lympne	1011.9	-2	N'E	2	c	58	75	8	5	7	-	7-8	9	4000	0	1	64	49	41	-	-	9.6
Manston	1010.5	+2	N'E	2	c	60	85	7	5	-	-	9+	9+	5700	0	*	68	51	40	1	-	10.0
Shoeburyness	1001.4	+2	NW'N	1	c	57	85	6	5	3	-	4-6	9+	4000	0	*	70	47	39	Tr	-	9.7
Felixstowe	1011.0	-2	NW'N	2	c	57	85	7	5	-	-	9	9	7200	0	2	70	50	44	0.4	-	7.7
Gorleston	1011.1	+4	W	2	b	57	75	7	-	4	-	0	1	-	0	1	66	52	49	0.1	Tr	5.7
Mildenhall	1010.9	+4	SW	1	bc	55	85	7	-	7	3	0	2-3	-	0	*	70	45	38	5	-	3.4
Cranwell	1010.5	+4	W	1	z	56	92	6	5	-	-	10	10	1500	0	*	69	51	48	0.3	-	2.3
Birmingham	1010.5	+2	SW	2	c	53	97	6	5	1	-	7-8	10	1500	1	*	67	49	41	0.4	-	8.2
Upper Heyford	1011.3	+2	-	0	bc	53	92	7	-	4	1	0	2-3	-	1	*	65	45	37	2	-	*
Ross-on-Wye	1010.4	0	SW'S	2	c	55	92	7	5	-	-	7-8	7-8	1500	1	*	66	48	41	3	-	4.8
Hartland Point	1009.8	+6	ENE	3	c	55	97	8	5	4	-	4-6	7-8	2500	1	2	62	54	52	0.1	6	8.8
Bristol	1010.7	-2	-	0	bc	55	92	8	2	6	-	2-3	4-6	4000	1	*	62	46	38	10	-	1.0
Portland Bill	1010.8	+2	W	2	c	59	85	8	2	-	-	4-6	10	4000	1	3	61	56	*	-	2	*
Plymouth	1009.8	+2	SE	1	z	58	97	6	8	3	1	4-6	4-6	1500	1	1	61	54	52	0.1	2	4.0
The Lizard	1009.3	+2	SSE	2	bc	55	97	8	8	6	-	4-6	4-6	2500	1	2	64	52	*	1	5	5.4
Scilly (St. Mary's)	1008.5	+6	E	2	c	56	97	8	8	7	-	4-6	9+	1500	1	1	63	51	*	2	0.6	4.8
Guernsey																						
Pembroke	1011.6	+4	E'N	1	c	56	97	7	8	7	-	4-6	9	800	1	1	62	53	*	Tr	2	9.5
Holyhead	1009.4	+2	SE	1	o	57	97	6	5	-	-	10	10	450	1	1	65	55	46	1	-	8.3
Chester (Sealand)	1009.9	+2	-	0	m	57	92	4	5	-	-	10	10	1500	1	*	72	54	51	-	-	9.2
Manchester	1010.6	+6	SE	1	z	56	85	5	5	-	-	10	10	4000	0	*	70	52	48	Tr	-	3.4
Spurn Head	1010.0	+2	N'E	1	c	58	92	6	5	-	-	9+	9+	800	0	1	70	56	*	-	-	9.6
Catterick	1010.5	+2	-	0	z	56	85	5	5	7	-	7-8	10	4000	0	*	66	53	*	Tr	-	*
Tynemouth	1011.2	+2	NNW	3	c/r	54	97	7	6	-	-	10	10	1500	1	2	61	54	53	-	3	
St. Abbs Head	1011.7	+12	NW	4	RR	51	97	6	5	-	-	10	10	800	1	3	61	51	*	-	27	*
Leuchars	1009.9	-4	-	0	rr	55	92	7	5	2	-	4-6	10	1500	1	*	61	54	53	2	6	0.0
Renfrew (Abbots I.)	1010.7	-2	WNW	1	rr	56	97	7	5	2	-	9+	10	1500	1	*	70	56	50	-	5	9.9
Eskdalemuir	1010.5	+2	-	0	RR	52	97	6	-	2	-	10	10	800	1		66	51	50	-	10	4.1
Point of Ayre	1010.5	0	E'N	2	c/r	57	97	8	5	7	8	1	10	2500	1	1	65	55	*	Tr	1	7.7
Tiree	1011.8	0	N'E	4	bc	55	85	8	5	3	-	2-3	4-6	2500	0	3	57	54	*	-	-	0.1
Stornoway	1016.6	+2	NNE	6	c	52	85	7	5	2	-	9	10	1500	1	3	54	51	*	0.1	0.1	0.0
Dalwhinnie	1011.5	-2	NE	4	c	49	92	7	5	-	-	10	10	800	1	*	53	48	48	3	1	0.0
Aberdeen	1011.2	+2	N	3	ir	53	97	6	6	-	-	10	10	800	1	1	57	52	51	1	0.3	0.0
Wick	1013.6	+4	NNE	5	c	52	85	7	5	2	-	7-8	10	800	1	3	53	50	*	0.3	0.5	*
Lerwick	1012.8	-6	NE	8	c	52	85	7	5	7	-	7-8	9	800	0	*	54	42	*	Tr	-	0.9
Blacksod Point	1012.5	+10	NNE	3	c	58	92	7	3	4	-	2-3	7-8	1500	0	3	62	56	*	-	-	*
Malin Head	1011.8	-6	N	1	c	55	97	8	8	-	-	7-8	7-8	5700	0	2	61	54	*	-	3	12.0
Aldergrove	1011.1	+2	-	0	rr	55	97	6	5	2	-	4-6	10	2500	1	*	66	50	45	0.1	0.3	6.2
Birr Castle	1011.8	+2	NW	1	qf-	49	97	3	5	-	-	10	10	2500	1	*	62	46	43	5	0.5	0.2
Valentia Obsy.	1011.7	+10	NNE	3	bc	55	92	7	5	-	-	2-3	2-3	1500	1.	2	61	50	42	8	1	1.4
Roches Point	1010.9	+8	NE	2	bc	55	92	8	-	-	5	0	4-6	-	1	1	63	52	*	1	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	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	cqpr bc	bcy	bcybc	66	48	27	0.2	-	9.6	•	•	
CROYDON	217	eprc	obcy	bcwbcw	67	47	40	0.1	-	9.3	•	•	8
GREENWICH (Royal Observatory)	149	dcpbc	bcebcby	bc	69	46	34	Tr	-	9.1	46	60	8
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
WESTMINSTER (St. James' Park)	27	•	•	•	67	50	44		1		67	76	•
REGENTS PK. (Botanic Gardens)‡	168	•	•	•									•
CAMDEN SQUARE	110	bc	bc	•	69	48	42	0.5	-	•	•	65	•
KENSINGTON	80	bc	bcb	•	69	48	40	-	-		41	65	•
HAMPSTEAD OBSERVATORY	450	bcp	bc	bc	67	50	43	Tr	-		•	79	•

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.

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 13th July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 14th July 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.

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 15th July, 1940.

No. 28725

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

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)...	1011.1	−6	S	3	bc	66	55	8	8	–	–	7-8	7-8	2500
	Croydon	1011.1	−4	SSW	3	bc	68	56	8	3	–	–	7-8	7-8	4000
	S. Farnborough	1011.5	+2	SSW	4	c	69	55	9	8	6	–	4-6	9	2500
	Boscombe Down	1011.0	−4	SE	3	bc	63	75	8	8	–	–	7-8	7-8	2500
	Calshot (Soton.)	1011.6	+2	SW	3	bc	68	65	8	2	6	1	2-3	2-3	4000
	Lympne ...	1012.8	+2	S'E	2	bc	67	55	9	2	–	–	2-3	2-3	4000
	Manston ...	1011.2	+6	SSE	3	c	63	75	8	8	4	1	7-8	7-8	2500
2	Shoeburyness ...	1011.9	−2	SE	2	c	68	55	8	2	–	1	4-6	4-6	4000
	Felixstowe ...	1011.4	+2	S	3	bc	69	55	8	2	–	2	2-3	4-6	4000
	Gorleston ...	1011.7	+4	S'E	4	c	63	75	7	8	4	–	4-6	7-8	2500
	Mildenhall ...	1010.9	−2	SW'S	2	bc	70	55	8	7	–	3	4-6	7-8	4000
	Cranwell ...	1010.2	−6	W	1	c	69	55	7	8	–	2	7-8	9	2500
3	Birmingham	1010.1	−2	SW	2	bc	66	55	8	8	–	–	4-6	4-6	4000
	Upper Heyford	1010.4	−10	S'W	2	c	67	65	8	8	4	–	7-8	7-8	2500
4	Ross-on-Wye ...	1010.4	−4	S'W	3	c	65	65	8	8	–	–	7-8	7-8	4000
5	Hartland Point	1010.1	−2	NNE	3	bcjp	59	85	9	3	6	–	2-3	4-6	2500
	Bristol	1010.8	−4	SSE	2	bc	67	75	8	8	6	–	4-6	7-8	4000
	Portland Bill ...	1011.3	+8	S	1	bc	63	92	8	2	4	–	4-6	4-6	4000
	Plymouth ...	1010.6	+2	S	3	bc	61	85	8	2	–	4	4-6	4-6	1500
	The Lizard ...	1010.2	+6	S	2	c	63	85	8	8	6	–	7-8	7-8	2500
	Scilly (St. Mary's)	1009.3	+2	SE	3	c	64	75	8	8	3	–	2-3	7-8	1500
	Guernsey ...														
6	Pembroke ...	1010.6	0	—	0	bc	62	92	8	8	7	3	4-6	4-6	1500
7	Holyhead ...	1010.4	+4	N'E	2	z_0	60	92	6	–	7	–	0	10	–
	Chester (Sealand)	1009.9	−6	SE	1	z_0	66	65	6	8	3	–	2-3	9+	4000
8	Manchester ...	1010.6	−2	SW	1	c	67	65	7	8	–	–	7-8	9+	2500
10	Spurn Head ...	1010.8	+4	NE	2	c	63	75	6	1	–	–	7-8	7-8	1500
	Catterick ...	1011.1	0	—	0	rr	54	92	6	–	2	–	10	10	1500
	Tynemouth ...	1011.4	+4	NNW	2	o/r	55	92	6	6	–	–	10	10	1500
11	St. Abbs Head	1010.2	−10	NW	4	RR	53	92	7	5	2	–	9	10	1500
	Leuchars ...	1010.9	+2	SE	2	c	58	85	7	8	2	–	7-8	10	1500
12	Renfrew (Abbots I.)	1011.3	+2	SE'S	1	z_0	60	85	5	5	7	–	7-8	10	2500
	Eskdalemuir ...	1011.6	+8	NE	2	rr	53	92	6	6	–	–	10	10	800
	Point of Ayre ...	1011.1	+2	E'S	1	r_0r_0	58	92	8	–	2	–	10	10	1500
13A	Tiree	1011.5	−2	NNE	3	bc	59	75	8	1	3	9	1	4-6	4000
13B	Stornoway ...	1016.1	−4	NNE	6	c	56	75	7	5	7	–	4-6	7-8	2500
15	Dalwhinnie ...	1013.7	0	NE	3	id_0	50	92	7	4	–	–	10	10	800
	Aberdeen ...	1011.5	+2	N	4	id_0	54	92	6	6	–	–	10	10	450
	Wick	1013.7	+2	NNE	6	cq	53	85	6	5	2	–	7-8	10	800
16	Lerwick... ...	1013.5	+4	NE	8	c	53	85	7	8	7	–	7-8	9+	800
17	Blacksod Point..	1012.7	0	N	2	c	58	92	7	5	–	–	10	10	800
18	Malin Head ...	1011.5	−2	N	2	c	59	85	8	5	7	2	4-6	7-8	5700
	Aldergrove ...	1011.2	0	SSW	1	c/r	57	92	7	5	1	–	9+	10	1500
19	Birr Castle ...	1011.8	−2	NNW	1	ir_0	59	85	8	5	–	–	10	10	2500
20	Valentia Obsy. †	1011.7	−2	N	3	c	63	75	8	7	7	–	4-6	9+	7200
	Roches Point ...	1011.2	0	S	1	c	63	75	8	8	1	–	4-6	7-8	2500

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

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)	1011.3	+2	SSW	3	bc	67	55	8	8	–	4	4-6	7-8	2500	0	*
Croydon	1011.3	−2	S	2	bc	68	55	8	2	3	2	1	4-6	4000	0	*
S. Farnborough	1011.3	0	SW	3	bc	67	45	9	2	6	5	1	4-6	4000	0	*
Boscombe Down	1011.2	+6	S	4	bc	63	65	9	2	4	6	2-3	4-6	2500	0	*
Calshot (Soton.)	1011.6	−2	SW	3	bc	64	75	8	1	7	4	Tr	2-3	4000	0	2
Lympne	1012.7	0	S'E	2	bc	65	65	9	–	5	8	0	4-6	–	0	§
Manston	1011.6	−4	SSE	3	bc	66	65	8	8	4	6	1	7-8	2500	0	*
Shoeburyness	1011.8	0	S	2	c	69	65	8	4	3	2	4-6	7-8	2500	0	*
Felixstowe	1011.6	+2	SSE	4	bc	65	75	8	2	6	1	Tr	1	4000	0	2
Gorleston	1012.2	0	S'E	4	bc	65	65	7	2	4	1	2-3	4-6	2500	0	3
Mildenhall	1010.6	0	SSE	2	c	68	55	8	8	6	8	4-6	7-8	4000	0	*
Cranwell	1010.0	−2	SSE	1	bc	69	55	8	4	–	1	2-3	2-3	4000	0	*
Birmingham	1010.3	+4	SSW	2	c	65	55	8	5	7	–	7-8	9+	1500	1	*
Upper Heyford	1010.8	+4	S	3	c	66	65	8	8	4	5	9	9+	2500	1	*
Ross-on-Wye	1009.9	0	SSW	3	c	67	65	8	2	–	3	2-3	7-8	4000	0	*
Hartland Point	1010.7	+4	SW	2	rr	56	97	7	6	2	–	7-8	10	1500	1	1
Bristol	1010.6	+4	SW	3	c	64	75	8	8	6	2	4-6	9	2500	1	*
Portland Bill	1011.3	−10	S	1	c	59	92	8	2	4	–	4-6	10	4000	1	3
Plymouth	1010.9	−2	S	3	c	60	85	8	8	3	2	4-6	7-8	2500	0	2
The Lizard	1010.3	0	—	0	bc	63	85	8	8	–	–	4-6	4-6	2500	1	2
Scilly (St. Mary's)	1009.8	+4	SE	3	bc	62	85	8	8	–	3	4-6	4-6	2500	1	2
Guernsey																
Pembroke	1010.6	0	—	0	bc	63	75	8	2	7	–	2-3	4-6	1500	0	1
Holyhead	1010.8	+2	NE'N	3	ir_0	57	97	5	–	2	–	10	10	1500	1	2
Chester (Sealand)	1010.5	+6	WNW	2	r_0r_0	60	92	5	3	7	–	2-3	10	2500	1	*
Manchester	1010.2	+2	NE'N	2	z_0	63	75	5	8	7	4	4-6	7-8	2500	0	*
Spurn Head	1011.1	0	E'N	2	c	59	92	6	5	–	–	7-8	7-8	800	0	1
Catterick	1011.3	0	—	0	c	58	85	7	8	7	–	2-3	9+	4000	1	
Tynemouth	1011.2	−2	NW	2	o/r	55	92	6	–	2	–	10	10	1500	1	2
St. Abbs Head	1009.9	−4	NW	4	r_0r_0	53	97	4	5	–	–	10	10	800	1	3
Leuchars	1010.2	−6	SW	2	c	57	85	8	5	–	–	10	10	2500	1	*
Renfrew (Abbots I.)	1010.9	−4	SW'W	2	z_0	58	85	6	5	–	–	10	10	4000	1	*
Eskdalemuir	1011.1	0	—	0	r_0r_0	53	97	6	6	2	–	10	10	450	1	*
Point of Ayre	1011.0	−2	N'E	1	r_0r_0	56	97	7	8	2	–	2-3	10	1500	1	1
Tiree	1011.0	−2	N'E	2	bc	52	85	8	5	3	–	1	4-6	4000	0	2
Stornoway	1015.1	−2	NNE	6	c	53	85	7	5	2	–	7-8	10	1500	1	3
Dalwhinnie	*	−20	NE	1	id_0	50	97	6	4	–	–	10	10	800	1	*
Aberdeen	1011.0	−4	N	3	d_0d_0	54	97	5	5	–	–	10	10	450	1	2
Wick	1013.4	−2	NE	6	cq	53	85	6	5	2	–	7-8	10	800	1	3
Lerwick	1014.5	+2	ENE	7	c	52	85	7	8	7	–	7-8	9+	800	0	*
Blacksod Point	1011.6	−8	NNE	3	c	57	92	8	5	–	–	10	10	1500	0	3
Malin Head	1011.0	−4	N'E	1	c	57	92	8	5	–	–	7-8	7-8	5700	0	2
Aldergrove	1010.8	−2	—	0	id_0	58	92	8	5	2	–	4-6	9+	1500	1	*
Birr Castle	10															*
Valentia Obsy. †	1011.7	−4	—	0	r_0r_0	59	85	7	5	2	–	Tr	10	1500	1	1
Roches Point	1011.0	0	N	1	c	60	85	7	6	1	–	4-6	9+	1500	1	1

PAST 24 HOURS.

Stations	Weather 7h.—13h. 14th (37)	Weather 13h.—18h. 14th (38)	Weather 18h. 14th to 1h. 15th (39)	Weather 1h.—7h. 15th (40)
London (Kew)	bc	bcy	bcc bcb	$bbccm_0w$
Croydon	bbc	bcy	bc	$bccm_0$
S. Farnborough	bccy	cypf bc	bcc w	cbcc
Boscombe Down	cprc	cbc	bcc	cepr
Calshot (Soton.)	$cPRm_0bc$	bbc	bcc	cid_0pcir_0
Lympne	cbcy	bcybc	bcbwfg	bwcbcc
Manston	cbcc	cbc	bcb bcw	bcwcwc
Shoeburyness	cm_0bcy	bcyc	bb_0w	bwc
Felixstowe	cbc,vy	bvyb	bbc	bcwcv
Gorleston	bc	cvc	bcbw	
Mildenhall	bcwcbcy	bcycy	.cybcbw	m_0bm_0bcw
Cranwell	cm_0,cz_0cy	$cypr_0bcy$	ybcw	bc
Birmingham	cbc	bcc	cbc	bc
Upper Heyford	bcc	cpr_0 bcc	cpr_0cbc	bcmc
Ross-on-Wye	cbc	bcy	cjp bcc	bcwc
Hartland Point	cbccp	cPrr	rrr_0c	cbc
Bristol	$bccprpr_0r_0$	$bcc pr_0c$	$cbcm_0$	$bccm_0r_0$
Portland Bill	bcbc	bcc	cc	corr
Plymouth	bc	c	$ccir_0$	
The Lizard	bcprc	bc	cprrr	bc
Scilly (St. Mary's)	cprc	cbc	bcW	bcW
Guernsey				
Pembroke	cbc	bcz_0	$bccm_0$	cifbc
Holyhead	om_0c	$cr_0r_0m_0c$	r_0m_0bcc	cm_0c
Chester (Sealand)	omm_0cz_0	cm_0tlr	$r_0r_0m_0,bm$	bbcfeofe
Manchester	cm_0c	cz_0zcz_0	qPRff	bcfFofm
Spurn Head	occ	c	bc	cbcw
Catterick	m_0orrm_0	$rrmcir_0c$	c	$cfom_0$
Tynemouth	oir	oir	oirbc	bc
St. Abbs Head	om_0rr	rrom	$rrom_0$	ormc
Leuchars	crrcircprc	c	[illegible]	$mcm_0d_0d_0c$
Renfrew (Abbots I.)	$cr_0r_0m_0c$	$cm_0ir_0m_0$	$cidr_0r_0$	$cr_0d_0m_0d_0$
Eskdalemuir	RrrRr	$rrRRr_0$	r_0rrr_0	cr_0c
Point of Ayre	cr_0r_0	r_0r_0	bcb cw	bcw
Tiree	bc	cbc	c	c
Stornoway	c	c	c	c
Dalwhinnie	cir_0	cid_0		c
Aberdeen	or_0id_0	od_0d_0	or_0r_0	r_0r_0o
Wick	cm_0q	cm_0q	d_0dm_0	m_0ddf
Lerwick	c	c	c	c
Blacksod Point	c	c	c	c
Malin Head	c	c	cprcc	c
Aldergrove	r_0r_0rrmc	$ir_0rrr_0r_0$	$cidr_0m_0$	cm_0c
Birr Castle	cir_0			bc
Valentia Obsy. †	bcbbcc	$cir_0r_0r_0$	cir_0cm_0	cm_0c
Roches Point	bcc	c	ir_0rrc	ir_0ddc

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.*

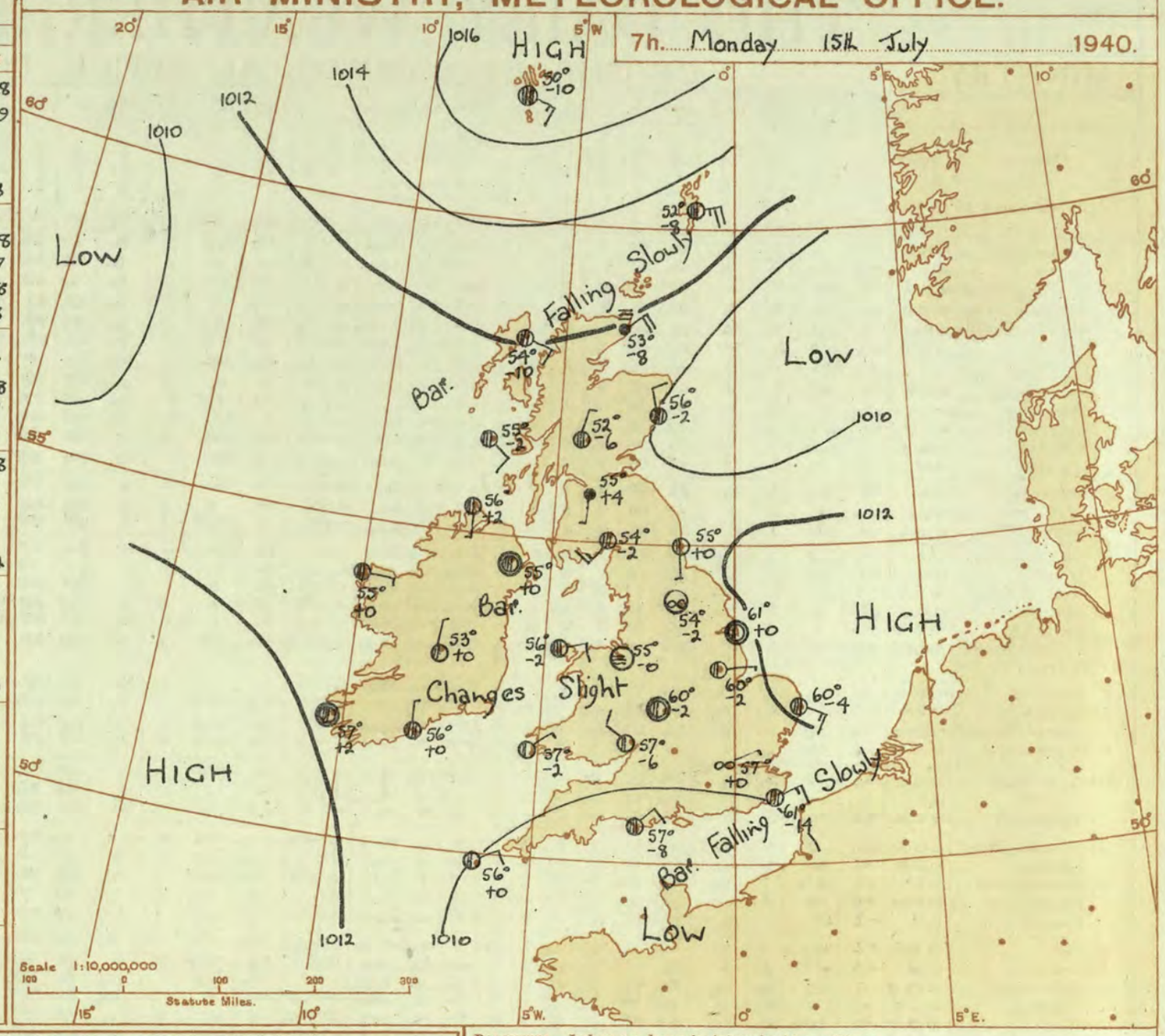
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 15th July 1940.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 14th July			18h. G.M.T.			01h. G.M.T. 15th July			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-	03748	03628	5-	03648	03628	5-	51648	05528	5-	53528	05428
115	52	14735	38627	52	14725	38627	52	50735	75658	--	48109	08559
203												
206	52	02744	02258	5-	03648	04358	5-	52628	04158			
210	52	21526	03558				52	62417	04458	5-	52418	04258
220	23	01853	32513	53	01852	02414				52	02854	12228
230	5-	02367	35417	57	02376	02427				5-	21848	00028
245	52	02947	32528	5-	02947	32427	5-	03848	32458	5-	02957	00057
260	52	22757	00068	57	05543	00028	5-	54428	00058	5-	51628	00058
277	52	61736	24268				52	61625	00068	52	22646	18268
279												
285										5-	02755	28125
288	52	64545	24168	57	61654	28167	00	05590	00050	5-	05648	20148
273										46	05544	14127
301	32	34111	07345							95	35178	05356
321	51	05635	00028	97	11665	30397	50	47163	00043	5-	41538	04148
299	87	02745	00027							57	05544	00014
292	81	05645	23168	5-	02868	31128	5-	05664	00014	5-	05668	04128
310												
316	87	05644	00026				07	05690	00013	00	47290	00042
333	73	17745	16127	51	02753	16226				54	05624	30214
334											46309	00049
340	80	05644	16116	3-	91745	26295				05	01790	14114
136	26	01864	19214	26	02764	04316	04	01790	12122	00	02790	12116
336											46319	24349
350	20	02865	00025							53	02684	00015
368	26	01862	14213	85	02863	23115	5-	02786	04116	83	25666	04266
379	23	01855	22215	80	01854	18214	04	05690	00014	03	02790	20315
390				86	02865	16117	04	05690	18113	57	05673	07127
382	83	02864	17325				03	02790	00025	57	05674	00026
438	56	01853	20314							8-	02756	06416
430	83	01854	16315	23	01861	18314	03	01890	00025	52	61756	32167
409	8-	02745	15285	8-	02944	14286	87	61646	00027			

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. 15th. July
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light easterly wind becoming variable; mainly cloudy, occasional rain and local thunderstorms, local fog or mist early morning; average temperature.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light variable wind; cloudy, occasional rain; local mist or fog early morning. average temperature.
11 S.E. Scotland	Light variable wind; dull and misty with local drizzle at first, some bright intervals later; average temperature.
12 S.W. Scotland & Isle of Man.	As 7-10
13 A. W. Scotld. / B.N.W.Scotland.	Light NE or variable wind; cloudy, some bright intervals, slight local rain; average temperature.
14 Mid Scotland	As 11
15 N. E. Scotland 16 Orkneys and Shetlands	Fresh NE wind; cloudy or dull, occasional light rain or drizzle, local coast fog; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light variable wind; mainly cloudy, slight local rain or drizzle average temperature.

GENERAL INFERENCE.

A depression centred over the Northern North Sea is almost stationary and a depression over France is spreading slowly northwards. Pressure is almost uniform over the British Isles.

There will be further light rain or drizzle in Scotland, especially in the Northeast. Local thundery rain or thunderstorms are probable elsewhere but chiefly in the South. There will be local fog inland in the early morning.

FURTHER OUTLOOK.

Thundery conditions in the South, spreading northwards.

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.
C.64/3902 m. 8049. 0. 3705. G. 348 (3803.E/40)

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 15th July 1940.

No. 28725.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1012.2	+2	–	0	bc	55	75	7	5	–	–	2-3	2-3	4000
	S. Farnborough	226	1012.1	0	–	0	c	51	92	7	5	3	–	4-6	7-8	7200
	Boscombe Down	417	1011.8	–6	–	0	c	53	97	7	5	–	–	9	9	4000
	Calshot (Sthmtn.)	8	1011.7	–2	ENE	1	2_0	59	86	6	5	7	–	4-6	10	5700
	Lympne ...	346	1013.6	0	E	2	b	54	92	7	5	4	–	1	2-3	4000
	Manston ...	154	1013.0	0	SE'E	1	bc	56	92	7	–	3	–	0	2-3	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1012.8	0	S'E	2	bc	61	85	8	–	4	6	0	4-6	–
	Gorleston ...	5	1012.9	0	S	2	b	60	85	7	–	4	–	0	Tr	–
	Mildenhall ...	19	1012.0	+2	S'E	2	b	56	86	6	5	7	–	1	2-3	5700
	Cranwell ...	240	1012.0	+2	S	1	bc	55	85	7	–	7	–	0	2-3	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1012.1	+4	–	0	c	52	92	7	–	7	8	0	7-8	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010.8	+4	S	2	c	56	92	8	5	–	–	9	9	2500
	Bristol ...	209	1011.8	+6	–	0	2_0	53	97	6	–	7	–	0	7-8	–
	Portland Bill ...	32	1011.2	+2	SE	2	c	57	92	8	5	–	–	10	10	4000
	Plymouth ...	82	1011.1	+2	E	1	ir_0	57	92	7	5	–	–	9	9+	5700
	The Lizard ...	240	1010.9	+4	–	0	r_0r_0	55	97	7	5	–	–	10	10	1500
	Scilly (St. Mary's)	163	1010.4	+6	ESE	2	bc	54	97	7	8	4	–	2-3	4-6	2500
	Guernsey ...	175														
6	Pembroke ...	142	1010.9	+2	N'W	1	c	56	97	6	8	–	–	9+	9+	1500
7	Holyhead ...	26	1011.0	+2	E	1	c	55	97	6	5	–	–	10	10	2500
	Chester (Sealand)	16	1011.4	+2	–	0	b/f	51	97	5	–	–	–	0	1	–
8	Manchester ...	70	1011.1	0	SSW	1	bc/f	51	97	2	5	3	–	1	4-6	4000
10	Spurn Head ...	29	1011.6	0	SE	2	c	53	92	6	5	4	–	2-3	4-6	1500
	Catterick ...	175	1011.8	–2	–	0	c	53	97	7	5	7	–	4-6	9+	4000
	Tynemouth ...	108	1011.7	0	SW	3	bc	55	92	5	5	–	–	4-6	4-6	1500
11	St. Abbs Head	280	1010.4	0	WNW	3	r_0r_0	52	97	4	5	–	–	10	10	800
	Leuchars ...	36	1010.1	–4	–	0	d_0d_0	55	92	5	5	–	–	10	10	1500
12	Renfrew (Abbots I.)	19	1011.1	–2	SW'W	2	r_0r_0	55	97	6	5	–	–	10	10	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1011.5	0	SW	1	bc	50	97	7	–	4	–	0	2-3	–
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1014.4	–4	NE'N	4	c	53	92	7	5	2	–	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1013.1	–2	NNE	4	d_0d_0	52	92	5	5	2	–	7-8	10	800
16	Lerwick ...	156	1014.4	0	ENE	6	c	51	92	7	5	2	–	7-8	10	800
17	Blacksod Point	18	1011.1	–4	NNE	3	c	56	85	7	5	–	–	9	9	800
18	Malin Head ...	84	1010.8	–4	–	0	c	55	92	7	5	8	–	4-6	7-8	4000
	Aldergrove ...	268	1011.1	–2	–	0	2_0	55	97	6	5	–	–	10	10	2500
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1011.5	–2	–	0	2_0	56	97	6	5	–	–	10	10	1500
	Roches Point	22	1011.5	–2	N	1	c	57	97	7	6	2	–	7-8	9+	1500

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

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)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon ...	1010.0	–10	NE	2	2_0	59	76	5	6	3	8	4-6	9	4000	0	*
S. Farnborough	1011.5	0	ENE	1	2_0	57	85	5	5	3	–	4-6	9+	4000	0	*
Boscombe Down	1009.6	–18	NE'N	2	2_0	59	75	6	5	3	8	2-3	9+	7200	0	*
Calshot (Sthmtn.)	1009.3	–12	N	2	pr	55	92	7	5	2	–	7-8	9+	4000	1	*
Lympne ...	1009.1	–12	N'E	4	ir_0	59	86	7	5	7	–	4-6	10	4000	1	1
Manston ...	1010.6	–14	ENE	3	c	61	75	8	5	7	–	4-6	10	5700	0	§3
Shoeburyness ...	1010.0	–14	E'N	3	c	61	85	8	–	7	6	0	9+	–	0	*
Felixstowe ...	1010.6	–8	NE'E	3	c	62	85	8	–	7	–	0	9+	–	0	*
Gorleston ...	1010.9	–10	E	3	c	63	85	8	5	7	7	2-3	9+	1500	0	2
Mildenhall ...	1012.2	–4	E'S	3	c	60	85	7	5	–	–	9	9	2500	0	2
Cranwell ...	1011.1	–6	–	0	c	55	97	7	5	9	8	Tr	7-8	2500	0	*
Birmingham ...	1011.5	–2	E	1	bc	60	85	7	–	4	6	0	7-8	–	0	*
Upper Heyford	1010.6	–2	–	0	bc	60	85	6	–	3	6	0	4-6	–	1	*
Ross-on-Wye	1010.9	–8	NNE	1	c	55	97	7	5	7	6	2-3	7-8	4000	1	*
Hartland Point	1010.8	–6	NW	2	c	57	92	7	5	3	2	2-3	9	2500	0	*
Bristol ...	1010.1	–2	NE	2	bc	59	92	8	3	–	–	4-6	4-6	2500	1	1
Portland Bill ...	1010.6	–2	E	1	ir_0	56	97	6	5	7	–	7-8	10	4000	1	*
Plymouth ...	1009.7	–8	NE	2	c	57	85	7	5	–	–	10	10	4000	1	2
The Lizard ...																
Scilly (St. Mary's)	1009.8	–2	–	0	bc	57	97	8	8	6	–	4-6	4-6	1500	1	2
Guernsey ...	1010.1	0	ENE	2	bc	56	97	8	8	–	–	2-3	2-3	2500	1	1
Pembroke ...	1010.4	–2	NE	1	bc	57	97	6	8	7	–	2-3	4-6	1500	0	1
Holyhead ...	1010.7	–2	E'N	2	c	56	92	6	5	–	–	10	10	220	1	2
Chester (Sealand)	1011.2	0	–	0	f	55	92	2	–	–	–	10	10	4150	1	*
Manchester ...	1011.0	–4	–	0	bc/f	54	97	4	–	3	4	0	4-6	–	1	*
Spurn Head ...	1011.5	0	–	0	bc	61	85	6	–	–	2	0	2-3	–	0	1
Catterick ...	1011.8	–2	–	0	2_0	56	97	5	–	2	–	10	10	2500	0	*
Tynemouth ...	1011.7	0	S	1	bc	55	92	5	5	–	–	2-3	2-3	1500	1	1
St. Abbs Head	1010.8	+4	SW	2	c	54	92	9	5	4	2	4-6	4-6	1500	1	1
Leuchars ...	1010.5	+2	SSW	2	o/d	56	97	7	5	–	–	10	10	1500	1	*
Renfrew (Abbots I.)	1011.1	+4	S'W	1	d_0d_0	55	97	5	5	–	–	10	10	800	1	*
Eskdalemuir ...	1010.8	–2	SSW	3	c	54	92	6	5	–	–	10	10	450	1	*
Point of Ayre ...	1011.3	0	SSE	1	bc	56	97	8	–	4	–	0	2-3	–	1	0
Tiree ...	1008.9	–2	SE'E	2	c	55	92	8	5	–	–	9+	9+	2500	0	2
Stornoway ...	1012.2	–10	ESE	2	c	54	92	8	5	7	–	7-8	10	2500	1	1
Dalwhinnie ...	1011.4	–6	NNE	1	c	52	92	6	4	–	–	9+	9+	800	1	*
Aberdeen ...	1010.0	–2	NNW	2	o	56	97	6	6	–	–	10	10	450	1	2
Wick ...	1010.9	–8	NE	4	d/f	53	97	2	–	–	–	10	10	4150	1	2
Lerwick ...	1013.0	–8	ENE	5	c	52	92	8	5	7	–	7-8	10	1500	0	*
Blacksod Point	1010.3	0	W	1	c	56	97	8	5	–	–	10	10	800	0	1
Malin Head ...	1010.2	+2	S	1	c	56	88	8	8	–	–	9	9	4000	0	2
Aldergrove ...	1010.8	0	–	0	c	55	97	7	5	–	–	10	10	4000	1	*
Birr Castle ...	1011.0	0	N'E	1	bc	53	97	7	5	–	–	1	2-3	2500	1	*
Valentia Obsy.	1010.9	+2	–	0	c	57	97	7	5	–	–	7-8	7-8	2500	1	1
Roches Point	1010.5	0	N	1	/d	56	97	6	5	–	–	9+	9+	800	1	1

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 14th Hrs. (36)
London (Kew)						
Croydon ...	70	53	42	–	–	12.6
S. Farnborough	71	51	45	–	–	12.7
Boscombe Down	70	49	42	Tr	–	10.0
Calshot (Sthmtn.)	68	52	47	3	1	6.9
Lympne ...	68	57	54	3	0.5	9.0
Manston ...	68	49	43	–	–	9.8
Shoeburyness ...	67	55	48	–	–	8.6
Felixstowe ...	69	53	*	–	–	10.0
Gorleston ...	70	59	54	–	–	9.8
Mildenhall ...	65	58	56	–	–	*
Cranwell ...	72	51	45	–	Tr	10.7
Birmingham ...	70	50	44	Tr	–	6.6
Upper Heyford	71	51	39	–	–	7.4
Ross-on-Wye	70	49	41	0.1	Tr	*
Hartland Point	71	53	49	–	–	8.7
Bristol ...	62	54	52	2_0	2	3.5
Portland Bill ...	68	52	46	1	Tr	8.9
Plymouth ...	63	56	*	–	0.5	*
The Lizard ...				–		
Scilly (St. Mary's)	66	54	*	0.5	14	9.2
Guernsey ...	65	52	*	0.2	0.1	10.4
Pembroke ...	64	51	*	–	–	12.2
Holyhead ...	61	53	51	0.3	Tr	0.0
Chester (Sealand)	69	50	44	2	Tr	0.4
Manchester ...	68	46	44	–	2	0.4
Spurn Head ...	70	55	*	–	–	3.4
Catterick ...	59	49		4	–	
Renfrew (Abbots I.)	56	51	48	8	1	*
Eskdalemuir ...	53	52	*	13	8	*
Point of Ayre ...	60	54	54	1	3	0.0
Tiree ...	61	55	55	0.4	2	0.0
Stornoway ...	54	50	50	23	6	0.0
Dalwhinnie ...	60	47	*	5	0.4	0.0
Aberdeen ...	61	54	*	–	–	7.7
Wick ...	57	52	*	–	–	5.5
Lerwick ...	53	48	49	0.4	0.1	0.0
Blacksod Point	55	53	52	Tr	2	0.0
Malin Head ...	54	52	*	–	0.6	*
Aldergrove ...	56	50	*	–	–	2.9
Birr Castle ...	59	53	*	0.5	–	*
Valentia Obsy.	59	50	*	Tr	0.2	1.7
Roches Point	60	53	52	8	0.5	0.1
		49	46		1	0.0
	66	55	54	0.5	0.1	5.8
	64	55	*	–	5	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity 15h. G.M.T. % (Yesterday.)	Humidity 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew ...	18	bc	bcy	bcbcbm	70	53	42	–	–	12.6	•	•	6
Croydon ...	217	bbc	bcy	bccm$_0$	71	51	45	–	–	12.7	•	•	6
Greenwich (Royal Observatory) ...	149	bcy	cy	cbc	74	51	42	–	–	11.3	50	75	7
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	73	54	48	–		10.2	47	81	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	72	53	47	–	–		54	83	•
Camden Square ...	110	bc	bc	•	70	54	47	–	–	•	•	77	•
Kensington ...	80	bc	bcc	•	74	53	45	–	–		58	77	•
Hampstead Observatory ...	450	bc	bc	c	71	53	44	–	–		•	90	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0.2	5-7h 15th	<0.1	7-24h 14th

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.

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 16th July 1940.

No. 28726

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

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)...	1008·5	-4	NNE	2	rr	61	85	5	5	-	-	10	10	2500
	Croydon	1008·1	-2	ENE	2	ir₀	61	92	6	6	2	-	4-6	10	800
	S. Farnborough	1008·3	-8	NE'N	1	RR	60	92	5	6	2	-	2-3	10	1500
	Boscombe Down	1008·2	-14	N'E	4	r₀r₀	59	92	6	6	2	-	4-6	10	2500
	Calshot (Soton.)	1007·2	-18	NNE	3	ir₀	62	92	6	5	2	-	7-8	10	1500
	Lympne ...	1008·9	-4	NE'E	2	RR	61	97	5	6	2	-	4-6	10	800
	Manston ...	1007·6	-10	E'N	4	ir₀	63	85	6	5	-	-	10	10	1500
2	Shoeburyness ...	1009·1	-10	NE'E	4	IR	61	85	5	5	-	-	10	10	4000
	Felixstowe ...	1008·4	-18	ENE	4	c	65	65	8	5	7	-	9	10	7200
	Gorleston ...	1010·5	-8	ENE	4	c	64	75	7	5	4	-	4-6	7-8	2500
	Mildenhall ...	1009·4	-10	E	3	c	71	65	8	1	7	3	1	9+	2500
	Cranwell ...	1010·1	-10	E	3	c	71	65	8	1	7	6	1	9	2500
3	Birmingham	1009·6	-4	E	2	c	67	55	8	7	1	-	2-3	10	4000
	Upper Heyford	1009·4	-4	ENE	2	c/r	66	65	7	5	7	-	1	10	5700
4	Ross-on-Wye ...	1010·0	-4	W	1	ir₀	62	75	8	-	2	-	10	10	2500
5	Hartland Point	1009·5	-2	NE	2	c	62	85	8	2	6	-	4-6	7-8	4000
	Bristol	1009·9	-10	NNE	1	rr	57	97	6	5	2	-	9	10	1500
	Portland Bill ...	1008·2	-6	NE	2	o/r	60	92	8	5	-	-	10	10	2500
	Plymouth ...	1008·5	-8	S	2	c	62	85	8	8	-	-	9	9	2500
	The Lizard ...	1009·9	-4	SE	2	c	61	85	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1010·3	+2	NNW	2	bc	64	75	8	8	4	-	2-3	2-3	2500
	Guernsey ...														
6	Pembroke ...	1009·3	0	NNW	1	c	61	85	7	8	6	-	4-6	7-8	800
7	Holyhead ...	1009·7	-10	N'W	3	bc	63	85	6	2	-	-	2-3	2-3	2500
	Chester (Sealand)	1009·6	-10	SSE	2	z₀	69	55	6	1	1	6	1	9+	4000
8	Manchester ...	1010·1	-8	S	2	c	73	45	7	1	-	8	2-3	7-8	4000
10	Spurn Head ...	1011·4	0	E	3	c	63	85	6	5	-	-	7-8	7-8	2500
	Catterick ...	1010·3	-10	SE	2	c	71	55	8	2	-	6	2-3	7-8	2500
	Tynemouth ...	1011·3	-4	SE'S	2	bc	61	85	6	5	-	-	4-6	4-6	1500
11	St. Abbs Head	1010·8	-2	SE	3	c	61	75	8	8	6	-	4-6	7-8	1500
	Leuchars ...	1010·1	-6	WSW	1	c	62	85	7	8	2	-	7-8	10	1500
12	Renfrew (Abbots I.)	1010·6	-4	SW	1	c	63	75	8	5	7	-	7-8	9+	1500
	Eskdalemuir ...	1010·1	-4	SSE	1	bc	64	65	7	8	-	-	4-6	4-6	1500
	Point of Ayre ...	1011·0	0	SE'E	2	b	63	85	8	1	-	-	Tr	Tr	2500
13A	Tiree	1009·2	-2	SE'S	3	o	58	92	7	5	-	-	10	10	800
13B	Stornoway ...	1010·6	-10	E	2	c	60	85	8	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1010·1	0	SW	1	c	59	85	8	4	-	-	10	10	1500
	Aberdeen ...	1009·9	-4	S'W	3	c	64	85	7	2	3	-	2-3	7-8	2500
	Wick	1009·7	-4	SE	2	c	55	97	6	5	7	8	7-8	9+	800
16	Lerwick... ...	1011·8	-6	ENE	3	c	54	92	7	5	2	-	7-8	10	1500
17	Blacksod Point..	1009·2	-6	W	1	c	61	85	8	3	6	-	2-3	7-8	800
18	Malin Head ...	1009·7	0	S	1	c	59	85	8	6	-	-	9	9	4000
	Aldergrove ...	1009·6	-10	SSW	1	c	66	75	7	8	-	-	7-8	7-8	4000
19	Birr Castle ...	1009·7	-6	ENE	1	c	67	75	8	8	-	-	9	9	2500
20	Valentia Obsy. †	1010·2	-2	SWW	3	c	62	75	8	8	7	1	4-6	7-8	2500
	Roches Point ...	1010·3	0	S	2	bc	65	85	8	1	-	-	2-3	2-3	4000

OBSERVATIONS at 18h. G.M.T. 15th July

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)	1006·4	-16	NE	2	c/r	62	85	6	5	2	-	7-8	9+	2500	1	*
Croydon	1007·1	-10	NE	1	c/r	60	92	6	5	3	-	4-6	7-8	1500	1	*
S. Farnborough	1006·3	-12	NNE	2	r₀r₀	62	85	6	5	7	-	2-3	9+	7200	1	*
Boscombe Down	1007·1	-6	N'E	2	c	64	85	7	6	2	-	7-8	10	2500	1	*
Calshot (Soton.)	1006·7	-2	NE	2	c	64	85	7	5	-	-	10	10	2500	1	2
Lympne	1006·6	-12	NNW	2	p/d	60	97	5	5	-	-	10	10	<150	1	§ 2
Manston	1004·9	-12	E'N	3	z₀	62	97	6	6	3	-	9	10	800	1	*
Shoeburyness	1006·9	-12	N'E	4	ir₀	58	97	7	6	-	-	10	10	1500	1	*
Felixstowe	1006·8	-16	NE'N	4	r₀r₀	58	97	7	-	2	-	10	10	2500	0	2
Gorleston	1008·7	-6	NE	4	rr	60	85	6	6	-	-	10	10	1500	·	2
Mildenhall	1007·5	-6	NE'N	2	ir₀	63	75	8	1	2	-	2-3	10	2500	0	*
Cranwell	1009·1	-2	E	2	c	65	75	7	-	7	6	0	9	-	0	*
Birmingham	1008·1	-10	NNE	1	c	68	55	8	7	3	8	4-6	9+	4000	1	*
Upper Heyford	1007·6	-6	NNE	3	c	68	65	8	5	3	2	2-3	7-8	5700	1	*
Ross-on-Wye	1008·8	-12	NW	1	c	64	75	8	5	7	-	2-3	9+	2500	1	*
Hartland Point	1009·2	-2	NNE	3	c	61	85	8	8	-	-	9+	9+	2500	1	1
Bristol	1008·1	-6	NNE	1	c	60	97	6	5	7	-	4-6	10	4000	1	*
Portland Bill	1007·3	-8	N	2	c	60	92	7	5	2	-	7-8	10	2500	1	2
Plymouth	1008·4	+2	NW	3	c	62	85	8	8	-	-	10	10	1500	1	1
The Lizard	1010·0	+2	W'N	3	bc	64	75	8	7	-	-	2-3	2-3	2500	0	2
Scilly (St. Mary's)	1010·5	0	WNW	2	bc	64	75	8	8	4	-	2-3	4-6	2500	0	1
Guernsey																
Pembroke	1009·6	-4	NW'N	3	c	59	85	6	8	6	-	7-8	9+	1500	0	1
Holyhead	1008·8	-4	NWW	2	bc	61	85	7	2	3	1	Tr	2-3	2500	1	2
Chester (Sealand)	1008·4	-6	SSE	1	c	71	55	7	1	7	8	4-6	7-8	4000	0	*
Manchester	1008·6	-6	W'N	2	z₀	69	65	6	3	3	-	1	2-3	4000	0	*
Spurn Head	1009·6	-4	NE'N	2	c	60	92	6	5	-	-	9+	9+	2500	0	1
Catterick	1008·9	-4	S'E	2	z₀	69	65	6	2	7	6	1	9+	5700	0	
Tynemouth	1010·2	-4	SSE	2	bc	60	85	7	8	3	2	2-3	4-6	2500	1	1
St. Abbs Head	1010·0	-4	ESE	2	c	57	92	6	5	6	-	4-6	7-8	2500	0	2
Leuchars	1009·2	-6	SSE	3	bc	65	75	8	2	-	1	2-3	2-3	4000	0	*
Renfrew (Abbots I.)	1009·8	-6	SW'W	2	b	68	55	8	1	6	-	Tr	Tr	4000	1	*
Eskdalemuir	1008·6	-6	SSE	1	bc	66	65	8	8	-	-	2-3	2-3	2500	1	*
Point of Ayre	1009·4	-6	-	0	b	62	85	8	-	-	4	0	1	-	0	0
Tiree	1008·7	0	SSW	1	c	58	92	8	5	-	-	9+	9+	1500	0	2
Stornoway	1009·9	-2	SW	2	pr	57	92	7	8	7	-	7-8	10	1500	1	1
Dalwhinnie	1009·9	0	SW	1	c	58	85	6	4	-	-	9+	9+	1500	1	*
Aberdeen	1009·5	-2	SSW	4	b	60	85	7	5	-	1	1	1	4000	1	2
Wick	1009·6	-6	SE	2	c	56	97	6	5	6	8	7-8	9+	800	1	2
Lerwick	1010·6	-2	ESE	3	c	55	97	7	5	2	-	7-8	10	450	0	*
Blacksod Point	1008·0	-8	SW	1	c	58	85	8	5	-	-	9+	9+	1500	0	2
Malin Head	1008·7	-6	NE	1	c	57	92	8	6	-	-	7-8	7-8	5700	0	2
Aldergrove	1008·3	-6	WSW	2	bc	69	65	7	2	-	-	2-3	2-3	4000	1	*
Birr Castle	1008·5	-4	SSW	1	c	65	75	8	8	-	-	7-8	7-8	2500	1	*
Valentia Obsy. †	1010·0	-2	SW	3	c	59	85	8	8	1	-	9+	10	1500	0	2
Roches Point	1009·7	-4	SSW	2	bc	64	75	8	1	-	-	2-3	2-3	4000	1	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 15th (37)	13h.—18h. 15th (38)	18h. 15th to 1h. 16th (39)	1h.—7h. 16th (40)
London (Kew)	cpr₀r₀rm₀	cr₀rr₀m₀	cr₀r₀	r₀r₀cm₀
Croydon	cir₀rrm₀	mrrr₀r₀	cir₀cmrr	cmrrDD
S. Farnborough	crr Rc	cRrr₀r₀	r₀crd₀c	d₀m₀c
Boscombe Down	crrm₀	cr₀gir₀c	ir₀cm₀	cm₀pr₀
Calshot (Soton.)	cRRrr	cir₀mc	er₀r₀cm	cir₀cm₀
Lympne	cmrrR	RRd₀d₀	om₀fFF	FFr₀d₀
Manston	cir₀m₀	r₀rrcm₀	ir₀oF	oFid₀m₀d₀
Shoeburyness	cir₀Rc	RRr₀o	Rrro	ir₀md₀d₀f₀
Felixstowe	c	r₀r₀iR	r₀r₀idrr₀r₀	om₀f₀cm₀
Gorleston	c	coprrr	orrr₀r₀	or₀if₀c
Mildenhall	cwccy	cycir₀	crrid₀m₀	od₀c₀om₀
Cranwell	becy	cyc	c	cr₀f₀m₀
Birmingham	bcc	c	c	cbc
Upper Heyford	cm₀cir₀	cir₀bc	cir₀c	cir₀rr cm₀
Ross-on-Wye	ccr₀	r₀c	p₀cc	cc
Hartland Point	bcc	c	cbc	bcc
Bristol	cm₀r₀rr	r₀r₀c	cr₀m₀	c
Portland Bill	orr	prrc	cc	cc
Plymouth	bcc	cpr	ccm₀	cm₀c
The Lizard	bcc	bc	bcw	c
Scilly (St. Mary's)	bbcb	bbc	bcc	cr₀r₀
Guernsey				
Pembroke	bcc	cm₀	cbcw	cm₀w
Holyhead	cm₀bcb	cpr₀m₀b	bwm₀c	wm₀c
Chester (Sealand)	ofcm₀bc⊕	cy⊕	cbcyz₀cm₀	cm₀
Manchester	bcmm₀bcy	bcz₀y	bcz₀mcm	cm₀m
Spurn Head	bc	oc	ir₀r	r₀r
Catterick	m₀bcz₀bc	bccyz₀	bcc	c
Tynemouth	bc	bc	bcc	c.
St. Abbs Head	c	bccm₀	Ff₀cc	f₀f₀cc
Leuchars	c	cbc		cm₀
Renfrew (Abbots I.)	cm₀f₀g₀c	cbcy	bybcm₀f₀g	bcm₀off₀m₀
Eskdalemuir	cbc	bcb	bbcc	c
Point of Ayre	b	b	cbcbc	c
Tiree	o	c	c	cbc
Stornoway	c	cpr₀	cpr₀	cpr₀
Dalwhinnie	cid₀	cb		c
Aberdeen	igbc	bcb	bbc	bccm₀
Wick	dFcm₀	m₀cm₀	cFcm₀	if₀m₀
Lerwick	c	c	cofe	of₀Feo
Blacksod Point	c	c	rr	dd
Malin Head	c	c	c	c
Aldergrove	cbbc	bcc	bcbw	bcc wm₀c
Birr Castle	bcc	c	c	crr
Valentia Obsy. †	cbcc	c	pr₀rrr₀r₀	r₀r₀irroid₀
Roches Point	bc	bc	bcow	ir₀rr

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.

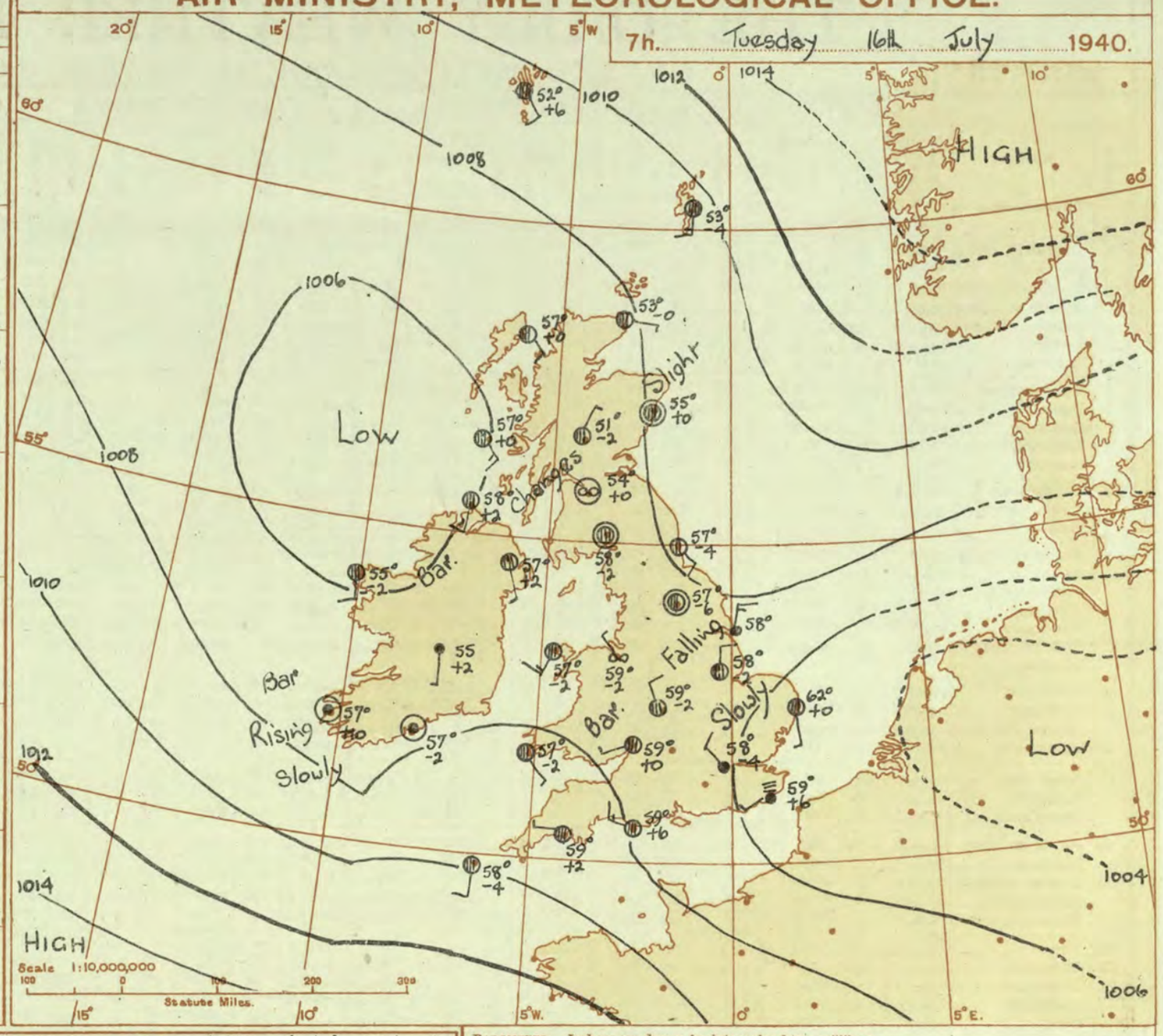
COLUMN 29.—STATE OF GROUND.

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 16th July 1940.



Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 15th. July				18h. G.M.T.			01h. G.M.T. 16th. July				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-	03738	08848	5-	02736	12156	--	49309	00049	07	48309	10146
115--	44109	08349	--	46109	12349	52	02844	20345	71	02944	12225
203											
206 87	01953	12254	57	02952	06226	53	09764	00024	--	48209	00049
210 83	09844	29226	83	81944	12127	53	01864	20115			
220 52	02844	16228	52	-----	19158				62	69745	16168
230 57	02745	32157	5-	02847	20117	5-	02655	00028			
245 8-	02748	16423	40	00752	16423	5-	05664	00015	57	02774	04228
260 17	82861	08427	80	05663	03113	5-	05558	00068	02	05538	08128
277 20	00841	14311	00	00890	20100	07	05690	00025	07	02790	13127
279											
285 8-	02747	10227	8-	02747	12327				5-	02846	32326
288 20	05664	12224	87	25854	14186	57	02863	00028	5-	61548	12168
273									46	52544	12158
301--	05665	32227	03	05690	31215	07	05590	00016	53	05564	14127
321 80	02765	08127	17	02861	10226				57	02644	29267
299			57	02744	08215	5-	05647	26227	6-	63538	32268
292 20	02864	14215	07	02890	12227	53	02755	00028	57	02753	02127
310--	02836	16326	--	01634	04414				--	01634	32314
316 11	02754	08248	05	02890	07226	5-	02667	32127	57	05644	28267
333 24	05652	30303	23	02758	30325				51	05657	00028
334--	02764	00015	--	02775	32127					63546	22168
340 11	02762	00017	57	01764	30114				5-	02776	00016
136 17	02863	08327	52	61738	04366	62	63525	06268	02	21528	04368
336--	02754	24326	--	02853	12427						
350 72	02862	06328	73	02864	02327						
368 77	62755	06268	77	02755	32228	5-	05688	24358	57	05685	24328
379 72	62754	06168	53	22774	04366	5-	05677	04127	53	05544	32325
390 5-	61888	06368	57	61754	06268	62	62637	04368	5-	52418	32268
382 52	62674	02268	67	22762	02266	57	51676	32228	53	51634	28258
438 3-	46009	08269							3-	67009	02359
430 02	84568	04368	53	05674	04327	52	05644	32228	52	22654	28168
409 83	01954	32315	83	05751	30312	04	05790	26212	07	02890	16127

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. 16th. July, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light NW wind backing SW; cloudy local rain at first, occasional rain spreading from west tomorrow, local coast fog; cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light SSW wind; cloudy, occasional rain, local coast fog; cool.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light variable or E wind; fair at first, occasional rain later, local coast fog; cool.
11 S.E. Scotland	Light or moderate SE to E wind; mainly fair, local coast fog; average temperature.
12 S.W. Scotland & Isle of Man.	As 7-10
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Light or moderate E wind; fair; average temperature.
15 N. E. Scotland	As 11
16 Orkneys and Shetlands	Light or moderate SE to E wind; cloudy, local fog; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light variable winds; occasional rain at first; bright intervals and local thunderstorms later, local night fog; cool.

GENERAL INFERENCE.

A depression centred over Holland and NW Germany is spreading eastwards and a trough of low pressure over Ireland is moving slowly east.
Weather will be mainly fair in the North but there will be occasional rain in the South.

FURTHER OUTLOOK.

Fair in the extreme North; local thundery rain elsewhere.

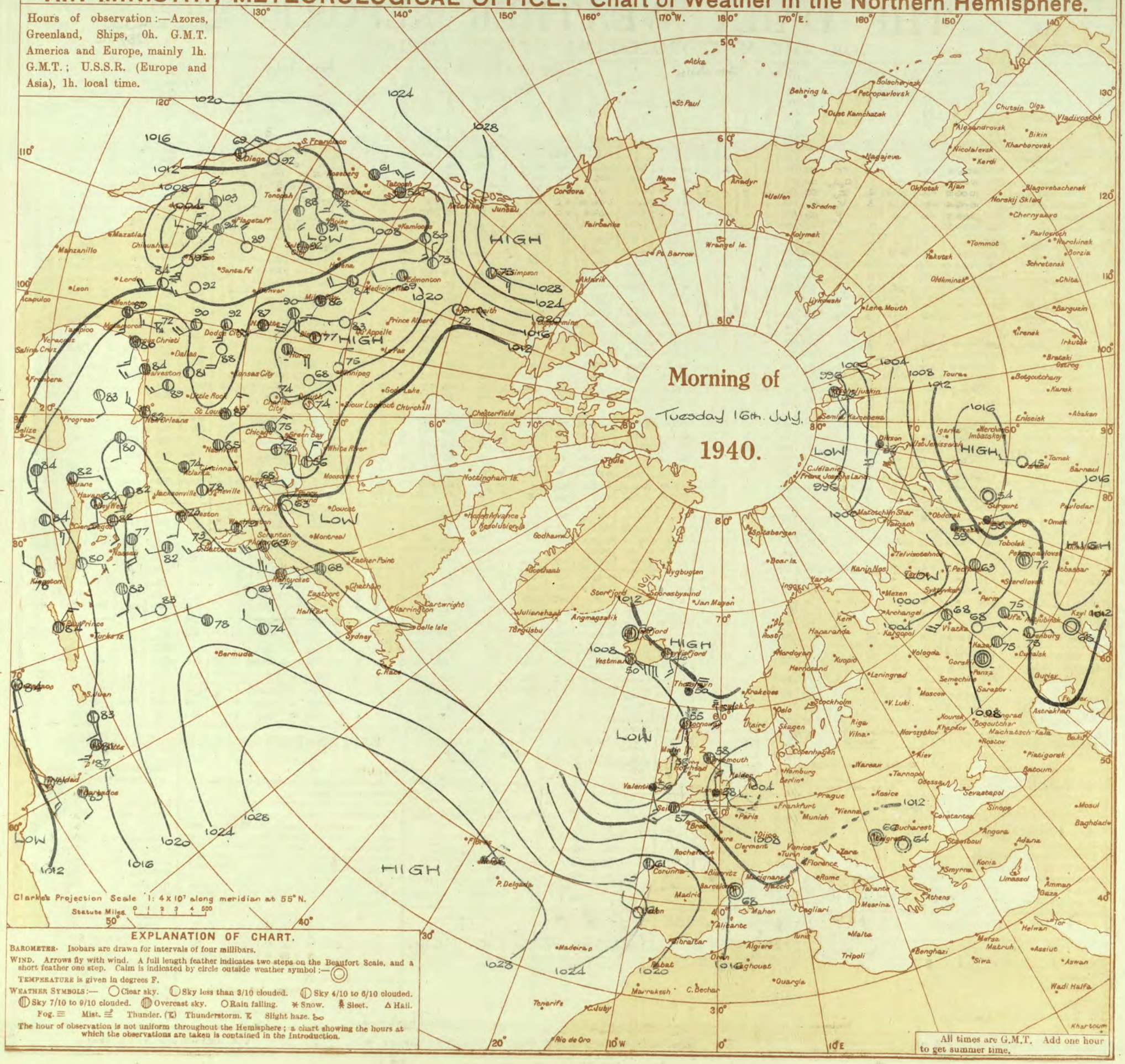
Forecasts issued at 10.30 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3900 m. 3049 o. 3705 G. 348 (3803 & 4)

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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 16th July 1940.

No. 28726

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

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	1006.5	-2	N	3	rr	58	97	4	-	2	-	10	10	450
	S. Farnborough	226	1006.2	-8	NW	1	d₀d₀	56	92	6	5	-	-	10	10	4000
	Boscombe Down	417	1006.9	-4	NNW	2	z₀	59	92	6	5	-	-	9	9	4000
	Calshot (Sthmtn.)	8	1006.4	-8	NNW	3	ir₀	61	92	4	5	-	-	10	10	4000
	Lympne	346	1005.5	-6	W	1	F	58	97	1	-	-	-	10	10	<150
	Manston	154	1004.3	-2	S	2	F	60	97	1	-	-	-	10	10	<150
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1005.1	-8	NE'N	3	z₀	59	97	6	5	2	-	7-8	10	450
	Gorleston	5	1006.6	-6	NE'N	3	r₀r₀	61	92	6	6	-	-	10	10	1500
	Mildenhall	19	1006.0	-10	N'E	2	id₀	58	97	5	6	2	-	7-8	10	450
	Cranwell	240	1008.2	-10	NE	3	c	57	92	7	5	-	-	10	10	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1007.6	-2	N	3	ir₀	58	92	7	5	3	-	9	10	5700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1009.1	-2	WNW	2	bc	58	97	7	5	-	-	4-6	4-6	1500
	Bristol	209	1007.6	-10	W	1	z₀	58	97	5	5	7	-	2-3	9	2500
	Portland Bill	32	1007.5	-10	N	2	c	57	92	7	5	-	-	10	10	2500
	Plymouth	82	1009.4	-2	WNW	2	z₀	59	92	6	5	-	-	9+	9+	4000
	The Lizard	240	1010.2	0	W'N	2	bc	55	97	8	4	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1011.1	0	WSW	3	c	57	92	7	5	7	-	4-6	9	2500
	Guernsey	175														
6	Pembroke	142	1009.0	0	-	0	bc	57	97	7	5	7	-	4-6	4-6	1500
7	Holyhead	26	1008.6	-2	S	1	c	55	97	6	5	-	-	10	10	1500
	Chester (Sealand)	16	1008.1	-6	WNW	1	z₀	59	92	6	5	-	-	10	10	2500
8	Manchester	70	1008.2	-4	N'E	1	m	58	85	4	-	7	-	0	10	-
10	Spurn Head	29	1007.5	-6	NE'N	3	r	58	97	5	5	-	-	10	10	1500
	Catterick	175	1009.2	-6	-	0	c	56	85	7	5	3	-	4-6	9	4000
	Tynemouth	108	1010.0	-4	SE	2	z₀	58	85	6	5	-	-	9	9	2500
11	St. Abbs Head	280	1008.9	-8	SSE	3	bc/F	54	97	5	5	-	4	4-6	4-6	1500
	Leuchars	36	1009.0	-4	NE	1	c/pr	57	92	6	5	2	-	7-8	10	4000
12	Renfrew (Abbots I.)	19	1008.9	-2	W/N	1	z₀	51	97	5	5	3	-	2-3	4-6	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1008.5	-2	W	2	bc	55	92	7	-	4	-	0	4-6	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1008.4	-4	S	2	c	55	97	7	5	7	-	4-6	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1008.3	-4	NE	1	m	54	97	4	5	2	-	7-8	10	800
16	Lerwick	156	1010.8	0	S'E	4	f	54	97	2	-	-	-	10	10	<150
17	Blacksod Point	18	1006.6	-8	-	0	rr	55	97	7	6	-	-	10	10	<150
18	Malin Head	84	1007.3	-6	S	1	pr	58	97 85	6	9	-	-	9+	9+	1500
	Aldergrove	268	1007.6	-8	SE'E	1	bc	53	85	7	5	-	6	Tr	4-6	4000
19	Birr Castle	173	1008.0	-10	SSW	1	c	56	92	8	5	-	-	10	10	2500
20	Valentia Obsy.	30	1007.3	-14	SE'S	3	r₀r₀	56	97	7	6	-	-	10	10	800
	Roches Point	22	1008.2	-10	S'E	1	c	57	97	8	5	-	-	7-8	7-8	1500

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

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)	1006.0	+6	NW'N	2	z₀	58	85	6	5	-	-	10	10	1500	1	*
Croydon	1006.1	-4	NW'W	2	DD	58	97	5	5	-	-	10	10	800	1	*
S. Farnborough	1006.1	+2	NW'N	3	z₀	58	92	6	5	7	-	7-8	10	1500	1	*
Boscombe Down	1007.2	+2	NW	2	c/pr	58	92	7	5	7	8	4-6	7-8	5700	1	*
Calshot (Sthmtn.)	1006.6	+2	NW	3	z₀	60	92	6	5	7	-	4-6	9+	4000	1	0
Lympne	1005.8	+6	SW'W	1	dF	59	97	1	-	-	-	10	10	<150	1	§1
Manston	1004.4	+2	SSW	2	id₀	59	92	5	5	-	-	10	10	450	1	*
Shoeburyness	1005.1	+2	N'W	2	df	59	97	3	-	-	-	10	10	<150	1	*
Felixstowe	1004.5	+2	-	0	z₀	60	97	6	5	-	-	9+	9+	450	1	1
Gorleston	1004.8	0	S'E	1	c	62	97	6	5	-	-	7-8	7-8	2500	1	1
Mildenhall	1004.8	-2	N'W	2	z₀	59	97	6	5	-	-	10	10	1500	1	*
Cranwell	1006.7	-2	N	2	0/f	58	97	5	5	-	-	10	10	<150	1	*
Birmingham	1007.4	-2	NNW	2	c	59	75	6	-	3	-	0	7-8	-	1	*
Upper Heyford	1007.2	-2	NNW	1	z₀	57	97	6	5	2	-	9	10	450	1	*
Ross-on-Wye	1007.9	0	SW'W	1	c	59	85	7	5	-	-	9+	9+	4000	0	*
Hartland Point	1008.2	-4	W	2	c	59	92	8	8	4	-	7-8	9+	2500	1	2
Bristol	1007.9	+2	-	0	c	60	85	7	-	7	-	0	10	-	1	*
Portland Bill	1007.9	+6	WNW	3	c	59	92	7	5	7	-	7-8	10	2500	1	3
Plymouth	1009.3	+2	W	1	c	59	92	7	5	-	-	10	10	4000	0	1
The Lizard	1009.0	-6	W'S	2	c	58	97	8	8	2	-	9	10	1500	0	2
Scilly (St. Mary's)	1008.7	-4	S'W	2	c/r	58	97	7	5	7	-	7-8	10	1500	1	1
Guernsey																
Pembroke	1008.2	-2	SE	1	c	57	97	7	5	2	-	7-8	10	1500	1	1
Holyhead	1007.4	-2	SSW	3	c	57	97	6	5	7	-	4-6	10	5700	1	2
Chester (Sealand)	1007.7	-2	NW	1	z₀	59	92	5	5	3	-	4-6	9+	4000	1	*
Manchester	1007.8	+2	WSW	1	m	59	85	4	5	3	-	2-3	7-8	7200	0	*
Spurn Head	1006.1	*	N'E	3	r₀r₀	58	97	6	5	-	-	10	10	800	1	2
Catterick	1007.8	-6	-	0	c	57	85	7	5	7	-	2-3	9+	5700	0	*
Tynemouth	1009.1	-4	SE	2	c	57	85	6	5	-	-	9+	9+	4000	1	1
St. Abbs Head	1007.2	-6	SE	3	c	55	92	7	5	6	-	7-8	9+	1500	1	1
Leuchars	1007.7	-2	NE	1	c	56	92	6	5	-	-	10	10	2500	1	*
Renfrew (Abbots I.)	1007.6	0	-	0	z₀	54	97	5	5	3	-	4-6	7-8	5700	1	*
Eskdalemuir	1007.2	-2	-	0	c	58	85	6	5	-	-	9+	9+	1500	1	*
Point of Ayre	1007.3	-2	S'W	2	c	59	85	7	5	1	-	9	10	4000	0	1
Tiree	1005.7	0	SE'S	3	c	57	85	8	5	-	-	7-8	7-8	2500	0	2
Stornoway	1007.0	0	SE	2	c	57	92	8	5	7	-	9	9+	2500	1	1
Dalwhinnie	*	-2	NE	1	cf	51	97	5	4	6	-	2-3	9+	2500	1	*
Aberdeen	1008.4	0	-	0	cjf	55	97	6	5	7	-	7-8	9+	<150	1	2
Wick	1007.6	0	E	1	c	53	97	6	5	1	7	4-6	10	1500	1	1
Lerwick	1009.7	-4	S	3	o	53	97	6	5	-	-	10	10	450	0	*
Blacksod Point	1005.9	-2	S	2	c	55	97	8	5	-	-	10	10	800	1	2
Malin Head	1006.1	+2	S'W	2	c	58	85	8	4	7	-	2-3	7-8	4000	0	0
Aldergrove	1006.8	+2	SSE	1	c	57	92	7	-	7	-	0	10	-	1	*
Birr Castle	1007.1	+2	S	1	rr	55	97	7	5	-	-	10	10	2500	1	*
Valentia Obsy.	1007.2	+10	-	0	id₀	57	97	6	5	-	-	10	10	450	1	1
Roches Point	1006.4	-2	-	0	rr	57	97	7	6	2	-	7-8	10	800	1	1

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 15th. Hrs. (36)
London (Kew)	65	57	57	5	3	0.1
Croydon	65	57	57	9	7	0.0
S. Farnborough	62	56	55	15	0.6	0.9
Boscombe Down	64	56	55	10	0.3	0.0
Calshot (Sthmtn.)	65	58	57	17	0.5	0.1
Lympne	65	57	58	7	0.2	0.0
Manston	63	57	58	2	0.3	0.0
Shoeburyness	66	57	57	25	6	0.0
Felixstowe	66	57	57	5	2	0.3
Gorleston	65	58	54	4	17	3.7
Mildenhall	72	57	57	Tr	4	2.4
Cranwell	72	57	57	-	Tr	9.6
Birmingham	69	55	49	*	-	3.6
Upper Heyford	68	56	55	Tr	0.4	*
Ross-on-Wye	65	56	52	0.2	Tr	0.6
Hartland Point	63	57	53	-	-	6.4
Bristol	61	57	54	8	0.2	0.0
Portland Bill	62	56	*	4	-	*
Plymouth	67	56	54	1	-	3.5
The Lizard	65	54	*	-	-	9.7
Scilly (St. Mary's)	63	56	*	-	2	14.4
Guernsey						
Pembroke	64	55	*	-	-	8.0
Holyhead	63	54	52	Tr	-	10.5
Chester (Sealand)	73	58	53	-	-	6.8
Manchester	74	49	49	-	-	9.6
Spurn Head	67	58	*	-	3	7.3
Catterick	72	54	50	-	-	8.5
Tynemouth	61	56	54	-	-	*
St. Abbs Head	64	53	*	-	Tr	*
Leuchars	67	52	52	-	Tr	2.9
Renfrew (Abbots I.)	70	49	45	0.1	-	5.4
Eskdalemuir	69	56	55	-	-	6.5
Point of Ayre	65	53	*	-	-	12.6
Tiree	60	55	*	-	-	0.0
Stornoway	60	54	*	Tr	Tr	0.4
Dalwhinnie	62	44	38	-	-	2.3
Aberdeen	65	50	49	Tr	-	8.5
Wick	56	51	*	-	-	*
Lerwick	56	51	*	-	-	0.0
Blacksod Point	62	52	*	-	10	*
Malin Head	61	55	*	-	0.2	0.4
Aldergrove	69	51	47	-	-	7.9
Birr Castle	69	54	52	-	2	5.6
Valentia Obsy.	65	55	55	-	11	7.0
Roches Point	66	57	*	-	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.	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	cpcr₀rm₀	cr₀rr₀m₀	er₀r₀m₀	65	57	57	5	3	0.1	•	•	6
Croydon	217	cir₀rrm₀	mrrr₀r₀	cir₀mrrDD	65	57	57	9	7	0.0	•	•	4
Greenwich (Royal Observatory)	149	cr₀	r₀rRrc	cidfcdc	65	57	56	11	3	0.0	91	92	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park)	27	•	•	•	66	58	57	17		-	90	92	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	66	57	56	6	7	-	94	94	•
Camden Square	110	orr	orr	•	66	57	56	7	5	•	•	89	•
Kensington	80	crr	cr	•	66	57	56	7	6				•
Hampstead Observatory	450	or	or	od	65	55	50	6	3	-	•	98	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.2	8h 15th	<0.1	0-7h 16th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 15th July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 16th July 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 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

Wednesday 17th July 1940.

No. 28,727

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

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)	1007·3	+6	NW'W	1	c/r	59	85	6	6	2	-	9	10	1500
	Croydon	1007·4	+10	WNW	2	id₀	58	97	6	5	7	-	7-8	10	1500
	S. Farnborough	1007·1	+2	W	2	c	65	75	7	5	7	-	7-8	9+	4000
	Boscombe Down	1007·1	0	W'S	4	z₀	70	55	7	2	1	-	7-8	10	2500
	Calshot (Soton.)	1007·2	+2	SW	4	c	68	76	7	7	2	7	7-8	10	4000
	Lympne	1006·9	+10	WNW	2	z₀	61	92	5	5	-	-	10	10	450
	Manston	1006·1	+10	WNW	3	o/p	64	85	6	5	-	-	10	10	800
2	Shoeburyness	1006·3	+6	NW'W	2	o/d	62	92	6	5	-	-	10	10	450
	Felixstowe	1005·0	-2	S	3	c	67	85	7	8	7	-	7-8	9+	2500
	Gorleston	1005·3	+2	SSE	4	c	65	85	6	8	6	-	2-3	7-8	2500
	Mildenhall	1005·8	+8	NNW	3	c/d	60	92	7	5	2	-	7-8	10	800
	Cranwell	1006·8	+2	NW	2	c/d	60	92	6	5	2	-	7-8	10	800
3	Birmingham	1006·8	0	WNW	2	z₀	68	55	7	7	3	-	2-3	9+	4000
	Upper Heyford	1006·8	-2	NNW	2	cc	66	65	6	5	3	-	4-6	9+	4000
4	Ross-on-Wye	1007·9	0	W	1	c/p	61	85	6	6	1	-	9	10	2500
5	Hartland Point	1008·2	0	WNW	2	r₀r₀	60	85	7	8	2	-	7-8	9+	2500
	Bristol	1008·1	+4	W	2	c	64	85	8	7	7	-	4-6	10	4000
	Portland Bill	1009·1	+14	WSW	3	c	60	92	7	5	-	-	10	10	2500
	Plymouth	1009·1	0	S	1	pp	59	92	6	-	7	-	10	10	5700
	The Lizard	1008·7	-4	-	0	dd	59	92	4	5	-	-	10	10	1500
	Scilly (St. Mary's)	1007·3	-8	S	3	o/p	61	92	5	6	-	-	10	10	800
	Guernsey														
6	Pembroke	1008·1	-4	SW	2	r₀r₀	59	97	7	5	2	-	7-8	10	1500
7	Holyhead	1007·7	+4	SW'W	3	c	60	92	7	5	2	-	9+	10	4000
	Chester (Sealand)	1007·6	+2	NW	4	z₀	63	75	6	1	3	-	7-8	10	4000
8	Manchester	1006·7	-2	WNW	3	c	69	65	7	5	3	-	2-3	9+	5700
10	Spurn Head	1006·3	0	NNW	2	o	58	97	6	5	-	-	10	10	1500
	Catterick	1007·6	-2	NNE	1	ir₀	63	85	5	2	7	-	2-3	9+	4000
	Tynemouth	1008·9	0	N	1	c/pr	60	92	7	5	-	-	9+	9+	2500
11	St. Abbs Head	1007·6	0	SSE	3	ir₀	57	92	6	5	-	-	10	10	1500
	Leuchars	1007·5	-2	E	2	c	61	85	7	7	7	-	7-8	10	1500
12	Renfrew (Abbots I.)	1007·1	-2	NE'E	2	z₀	64	85	5	5	3	-	4-6	10	5700
	Eskdalemuir	1006·7	-2	-	0	ir₀	62	85	6	5	-	-	10	10	1500
	Point of Ayre	1007·5	0	NNW	1	c	60	85	8	1	7	-	Tr	10	4000
13A	Tiree	1006·4	+2	SSW	2	c	61	85	8	5	1	-	4-6	9+	2500
13B	Stornoway	1007·0	0	SE	1	c	62	85	7	5	5	7	Tr	10	4000
15	Dalwhinnie	1007·3	-2	SSE	2	o	62	75	5	5	-	-	10	10	1500
	Aberdeen	1008·4	-2	ESE	2	ip	61	85	6	5	3	-	9	9+	<150
	Wick	1008·0	+2	SSE	3	c	59	85	6	5	1	2	4-6	7-8	1500
16	Lerwick	1009·4	-2	S	3	c	56	92	6	5	2	-	7-8	10	800
17	Blacksod Point	1009·7	+16	WNW	3	c	57	92	7	5	-	-	10	10	<150
18	Malin Head	1007·2	+8	S'W	1	c	58	92	8	9	-	-	9	9	4000
	Aldergrove	1006·8	-2	-	0	c/p	62	75	7	5	2	-	4-6	10	2500
19	Birr Castle	1007·6	+2	NW	1	pp	59	92	7	6	1	-	7-8	10	1500
20	Valentia Obsy. †	1012·2	+18	NNW	6	c	58	92	8	5	-	-	10	10	1500
	Roches Point	1007·9	0	NNW	5	bc	63	75	9	3	-	-	4-6	4-6	2500

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

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)	1007·3	-2	SW	2	m/p	60	92	4	5	2	.	7-8	10	1500	1	*
Croydon	1007·2	-4	S	1	c/p	60	97	5	5	7	-	4-6	10	1500	1	*
S. Farnborough	1007·1	+2	WSW	3	z₀	62	85	6	8	7	-	9	10	2500	2	*
Boscombe Down	1007·6	-2	W	3	r₀r₀	62	80	7	6	2	-	4-6	10	4000	0	*
Calshot (Soton.)	1007·7	+2	WSW	4	e	64	85	7	5	7	-	4-6	10	5700	1	2
Lympne	1007·8	+4	W	2	r₀r₀	57	97	5	6	2	-	4-6	10	450	1	§ 2
Manston	1006·4	+2	W'N	3	dd	59	97	4	5	-	-	10	10	220	1	*
Shoeburyness	1007·2	+4	N'W	2	dd	61	85	5	6	-	-	10	10	450	1	*
Felixstowe	1005·5	+4	NW	3	c	62	85	7	5	2	-	7-8	10	1500	1	1
Gorleston	1005·2	-4	NNW	3	c	64	92	6	5	-	-	10	10	2500	1	1
Mildenhall	1006·3	-2	NW'N	1	d₀d	59	97	6	6	2	-	7-8	10	220	1	*
Cranwell	1006·7	-2	N'E	2	c	61	85	7	6	7	-	4-6	9+	800	1	*
Birmingham	1007·3	+4	NNW	3	c	60	85	6	6	2	-	4-6	10	1500	1	*
Upper Heyford	1007·1	+4	W'N	2	z	64	75	6	5	7	-	4-6	10	4000	1	*
Ross-on-Wye	1008·0	0	NW	1	ir	60	92	6	6	1	-	9	10	2500	1	*
Hartland Point	1008·3	0	SW	2	d₀d₀	58	97	6	8	2	-	7-8	10	1500	1	2
Bristol	1008·1	+4	WSW	3	c	62	75	8	5	7	-	2-3	10	4000	1	*
Portland Bill	1008·5	+2	SW	3	c	58	92	7	5	-	-	10	10	2500	1	3
Plymouth	1008·8	+2	S	2	d₀d₀	59	97	6	5	2	-	9	10	800	1	1
The Lizard	1009·1	+8	N	2	c	59	97	8	8	2	-	9	10	1500	1	2
Scilly (St. Mary's)	1010·3	+30	W'N	5	bc	63	85	8	8	4	4	2-3	4-6	2500	1	2
Guernsey																
Pembroke	1008·4	0	SW'W	1	c	58	97	7	8	-	-	9+	9+	800	1	2
Holyhead	1008·2	+4	WNW	2	c/p	59	85	7	5	7	-	7-8	10	5700	1	2
Chester (Sealand)	1008·2	+6	NW	3	r₀r₀	60	85	6	6	2	-	9	10	1500	1	*
Manchester	1007·6	+6	NW'W	2	ir₀	58	85	6	5	2	-	9	10	2500	1	*
Spurn Head	1005·9	0	NW'N	4	id₀	58	92	6	5	-	-	10	10	800	1	2
Catterick	1007·6	+2	NNE	1	z₀	61	85	6	2	7	-	2-3	9+	4000	0	
Tynemouth	1008·4	-2	NE	2	o/r	59	97	6	-	2	-	10	10	1500	1	1
St. Abbs Head	1007·7	0	SSE	3	r₀r₀	58	92	8	8	2	-	4-6	10	1500	1	2
Leuchars																*
Renfrew (Abbots I.)	1007·5	+2	-	0	of+	60	85	3	5	-	-	10	10	5700	1	*
Eskdalemuir	1007·4	+2	-	0	ir₀	57	92	6	6	2	-	2-3	10	1500	1	*
Point of Ayre	1008·0	+2	-	0	r₀r₀	58	97	7	6	2	-	4-6	10	2500	1	0
Tiree	1007·5	+6	NW	2	d₀d₀	55	45	7	5	-	-	9+	9+	1500	1	2
Stornoway	1007·6	+2	S	1	c	62	75	8	5	7	7	1	10	4000	1	1
Dalwhinnie	1008·1	0	S	1	p	57	85	5	5	-	-	10	10	800	1	*
Aberdeen	1008·1	-4	SE'S	1	cjf	61	92	7	5	3	-	Tr	9	<150	1	1
Wick	1007·3	-2	SE	1	c	56	92	6	5	1	-	2-3	10	800	1	1
Lerwick	1009·9	+2	E'S	2	c	56	92	6	5	2	-	7-8	10	800	0	*
Blacksod Point	1012·4	+16	W	4	c	56	85	8	3	3	-	4-6	9	800	0	4
Malin Head	1008·4	+14	NW	3	c	56	85	8	9	-	-	7-8	7-8	5700	0	2
Aldergrove	1007·9	+6	-	0	r₀r₀	58	85	6	5	2	-	7-8	10	1500	1	*
Birr Castle	1010·0	+18	NNW	3	c	61	85	8	3	8	-	4-6	7-8	1500	1	*
Valentia Obsy. †	1015·4	+16	NNW	4	c	58	75	8	8	-	-	9+	9+	2500	0	4
Roches Point	1010·3	+16	N'W	6	bc	60	75	9	2	-	-	4-6	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 16th (37)	Weather 13h.–18h. 16th (38)	Weather 18h. 16th – 1h. 17th (39)	Weather 1h.–7h. 17th (40)
London (Kew)	iddr₀rcm₀	cdr₀cm	cir₀rm₀	crr₀d₀m₀
Croydon	cm₀ddd	md₀r₀r₀r	d₀rrm₀r₀	r₀r₀ir₀m₀
S. Farnborough	drrc	cPRq	cd₀r₀c	d₀d₀c
Boscombe Down	ccm₀	cm₀r₀r₀	cm₀d₀d₀	ddcm₀
Calshot (Soton.)	cyc	ccm₀c	ccm₀	cm₀
Lympne	offd₀d₀	d₀d₀r₀r₀	cr₀r₀m₀	om₀r₀ff
Manston	id₀cir₀	oid₀idm	ddRir₀	or₀d₀d₀m
Shoeburyness	d₀cmmkc	cidm₀dd₀	rrff	ffrrm₀c
Felixstowe	cir₀m₀c	cid₀c	ccir₀r₀r₀m	or₀r₀ir
Gorleston	c	cprc	cor₀r₀	or₀r₀
Mildenhall	omir₀d₀c	cr₀d₀d₀m₀	or₀r₀morr	omrrir₀m₀
Cranwell	od₀dcm	cir₀m₀c	ccr₀r₀	cr₀r₀m₀
Birmingham	cz	cp	or₀r r₀r₀	r₀o
Upper Heyford	cm₀ccz	cr₀cz	cmiRcm₀	cr₀r₀ddcm₀
Ross-on-Wye	ccgr₀	cm₀rc	corr	or₀cc
Hartland Point	cr₀r₀	r₀r₀c	d₀d₀c	c
Bristol	c	c	r₀r₀d₀d₀	cd₀m₀c
Portland Bill	c	c	cc	cbc
Plymouth	cr₀r₀rr	crrd₀d₀	cd₀d₀idc	cbc
The Lizard	rrdf	Fidc	cbc	bc
Scilly (St. Mary's)	cr₀r₀	cbc	bc	bcc
Guernsey				
Pembroke	crrm₀	r₀r₀m₀c	ddcq	cbcq
Holyhead	cm₀c⊕	cr₀c	rr₀pr₀c	cpr₀bc
Chester (Sealand)	bccz₀	czr₀r₀m₀	rr₀m₀c	cm₀ddiR
Manchester	cyz₀	cir₀r₀r₀	cm₀r₀r₀rr	cm₀r₀r₀id₀
Spurn Head	d₀o	oid	o	ir₀
Catterick	cm₀ir₀m₀	cir₀cm	m₀or₀r₀m₀	r₀r₀crr
Tynemouth	cp₀	coir₀	oir	oirrr
St. Abbs Head	m₀cr₀	orrc	ir₀c	rrm₀o
Leuchars			tktcm₀	cm₀r₀r₀rr
Renfrew (Abbots I.)	bccm₀wgg	Rircm₀f	cfrRr₀r₀	
Eskdalemuir	ccir₀	rRir₀	cir₀	cir₀
Point of Ayre	c	r₀r₀	r₀rr	rrc
Tiree	c	od₀d₀	odd	odrr₀
Stornoway	c	c	cir₀	cir
Dalwhinnie	c	cpr	•	cir
Aberdeen	ffcif	cjf	ccm₀	cr₀r₀
Wick	cm₀	cifm₀	m₀cm₀	m₀Ff
Lerwick	ocm₀	cm₀	cm₀	cid₀
Blacksod Point	c	c	pr₀c	bc
Malin Head	ccpgc	cgrcpgc	cpr₀pgcc	c
Aldergrove	ccm₀gc	ir₀r₀m₀	r₀r₀m₀DD	c
Birr Castle	cpp	cprc		c
Valentia Obsy. †	oidir₀pgc	cbcc	cpr₀bcc	cbccir₀
Roches Point	idpbc	bc	bcb	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.

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.

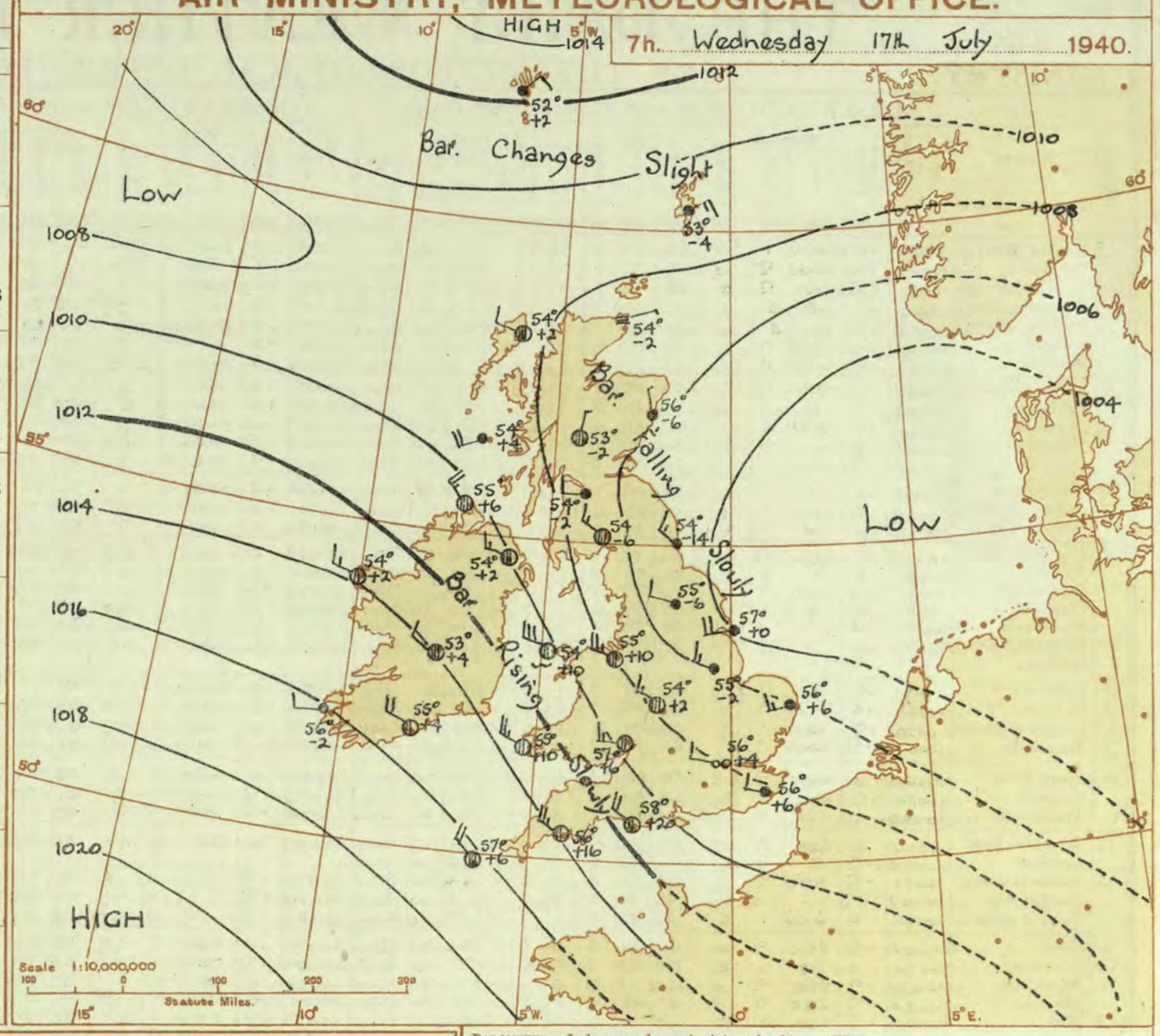
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 16th July			18h. G.M.T.			01h. G.M.T. 17th July			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
10917	01641	17245				--	08409	10359	5-	03528	06248
11576	01854	12325	--	66729	14369	--	67109	24369	--	67109	24369
203											
20653	01744	04145	52	51665	12168	52	05654	24258	52	61745	26168
210			57	02765	00028	5-	05558	22128	5-	02658	24268
22052	08736	22318	53	02854	26216	.					
23087	02752	20327	52	627--	-----	52	62.47	00068	52	64745	26368
245						--	46309	05149	52	62655	00068
2605-	22578	00068	52	64464	00068	5-	45358	00068	5-	64538	00068
27717	05651	11228	52	62656	20168	62	64636	28468	62	02746	26468
279											
2858-	05747	16427	5-	05748	16328				6-	64638	28368
2885-	64548	04268				52	61456	00068	52	62547	26268
273									36.	10663	28515
30653	05664	26327	--	03768	26328	62	62634	26368	51	21636	29468
32187	02764	02327	87	02754	06218	92	22658	26268	62	64648	25368
299c-	64438	32268	6-	62538	30368				6-	64538	26368
29257	61764	32267	87	02845	06367	5-	22648	00068	52	62645	26368
310--	03628	32328	--	03428	32328				--	57209	04349
316			62	64435	00068	6-	66338	00068			
33351	02753	20228	52	62855	28268						
334--	02644	26228	--	61886	22228				--	02745	24227
3407-	05664	28314	02	61648	31268	62	62646	28268	52	21936	28368
1365-	52608	30368	52	52626	30258	52	63646	26368	52	58526	20368
336--	22855	16368	--	03854	28428				--	63743	28468
35052	05665	30258	52	62655	00068				52	21637	20258
36877	02863	24328	17	02861	26268	53	05546	24257	83	01844	26464
379			62	61665	24328				6-	41636	24356
390c-	52528	30358	52	62535	24168	62	62436	25268	57	22636	24368
38252	02754	30228	41	02775	24228	02	64458	30168	52	21635	25258
438-	02748	28328							3-	62648	32228
43077	05663	28227	51	05684	23328	53	05675	24128	57	21655	25158
40952	62737	16268	52	21626	26367	5-	02847	60567	8-	02956	28426

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 17th July 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. 17th July, 1940
1 S.E. England 2 E. England ... 3 E. Midlands ...	Freshening W to NW wind; occasional rain early in period, followed by bright intervals and showers with perhaps local thunderstorms, mainly fine at night; cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate or fresh NW to W wind, strong locally on coast at first; bright intervals, thundery showers; cool.
9 N. Midlands ... 10 N.E. England	Moderate NW to W wind, fresh locally on coasts; rain at first, bright intervals and thundery showers later; cool.
11 S.E. Scotland	Moderate NW wind; occasional rain; cool.
12 S.W. Scotland & Isle of Man.	As 4-8
13 A. W. Scotld. B.N.W.Scotland.	Moderate W wind; occasional rain; local coast fog; cool.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate NE to N wind; some rain, local coast fog; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate NW to W wind, backing SW later; bright intervals and showers at first, occasional rain later; cool.

GENERAL INFERENCE.

A depression over the North Sea is moving slowly NW, and a small wedge of high pressure over West Ireland is moving slowly east.
There are some indications of a trough of low pressure approaching Ireland. There will be bright intervals and showers in the West; in the East there will be occasional rain early in period followed by bright intervals and thundery showers. There will probably be rather prolonged rain in E and N Scotland

FURTHER OUTLOOK.

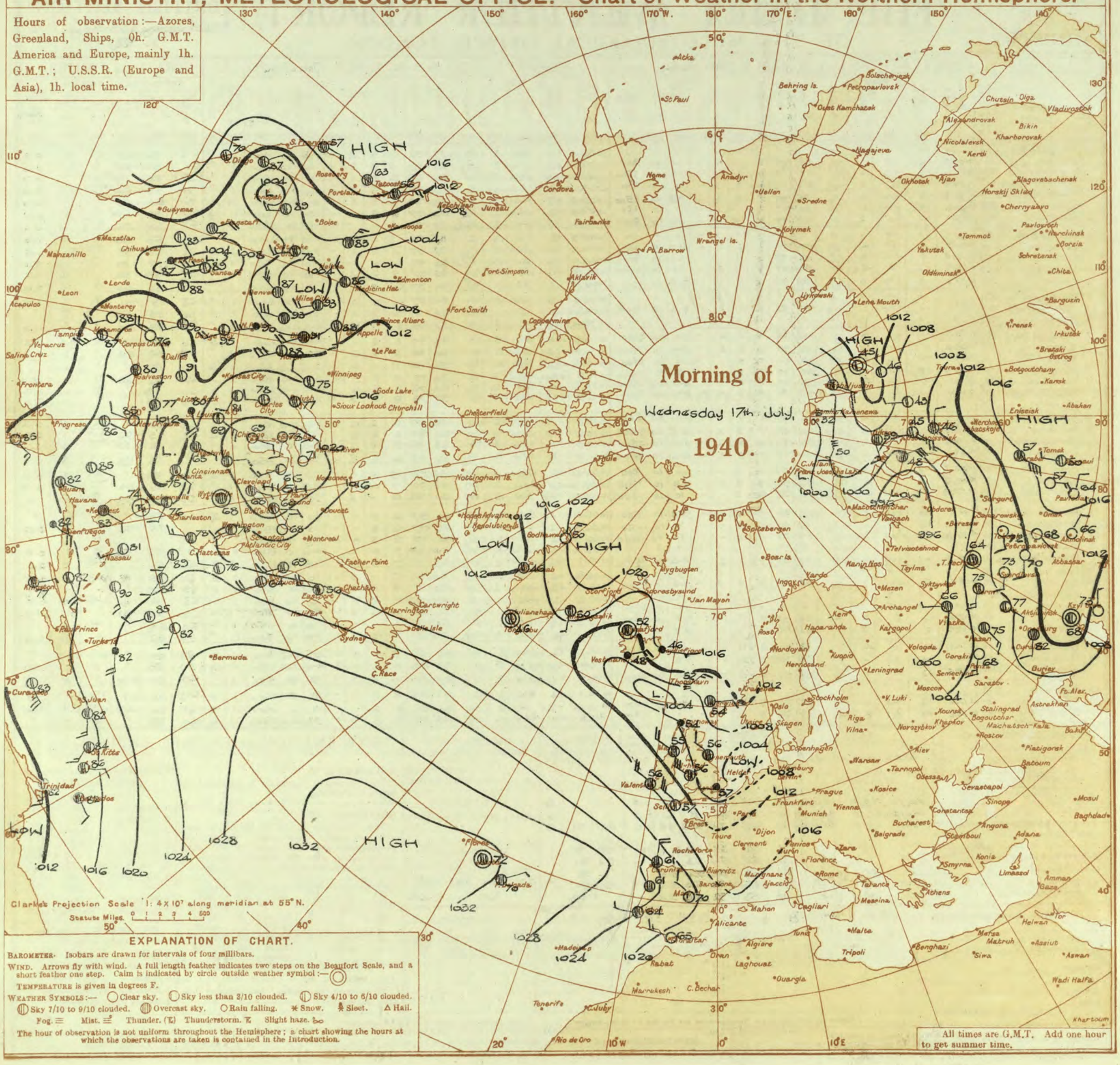
Westerly winds; occasional rain but some bright intervals.

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.
C.64/3902. m. 3045. 0. 3763. G. 348 (3800 8/40)

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 17th July 1940.

No. 28,727

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

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	1007.3	-6	W	1	roro	57	97	5	-	2	-	10	10	800
	S. Farnborough	226	1007.9	-2	W/S	2	o/r	57	97	6	5	-	-	10	10	5700
	Boscombe Down	417	1008.5	+2	W/N	2	dodo	56	92	6	5	-	-	10	10	1500
	Calshot (Sthmtn.)	8	1008.2	-2	W/N	3	zo	59	92	5	5	2	-	7-8	10	2500
	Lympne	346	1008.6	0	WSW	2	roro	57	97	5	-	2	-	10	10	220
	Manston	154	1007.1	-2	SW/W	2	iro	57	97	4	5	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1006.7	0	W	4	roro	59	97	4	6	2	-	4-6	10	800
	Gorleston	5	1005.8	0	WNW	3	roro	58	97	6	6	-	-	10	10	1500
	Mildenhall	19	1006.3	-2	W	2	rr	58	97	5	-	2	-	10	10	4000
	Cranwell	240	1007.0	0	—	0	roro	57	92	6	5	2	-	7-8	10	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1007.7	-2	WNW	1	roro	55	97	5	6	2	-	4-6	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010.3	+14	NW	5	c	58	85	8	8	4	-	4-6	7-8	2500
	Bristol	209	1008.8	0	—	0	c/d	56	97	6	5	2	-	4-6	10	2500
	Portland Bill	32	1008.7	-4	SW	3	c	58	92	8	5	-	-	10	10	2500
	Plymouth	82	1010.8	+8	NW/W	4	c	59	85	7	8	-	-	9	9	1500
	The Lizard	240	1013.1	+8	NW	5	bc	55	85	8	8	-	-	4-6	4-6	2500
	Scilly (St.Mary's)	163	1014.5	+16	NW	5	bc	57	75	8	8	4	4	2-3	4-6	2500
	Guernsey	175														
6	Pembroke	142	1010.9	+6	NW	4	c	56	85	8	8	-	-	7-8	7-8	800
7	Holyhead	26	1008.8	+2	NW/W	6	c	56	85	7	8	2	-	4-6	10	2500
	Chester (Sealand)	16	1008.4	-2	NW	2	c/r	55	92	6	8	2	-	4-6	10	2500
8	Manchester	70	1008.1	-2	W	2	roro	54	97	5	5	2	-	4-6	10	1500
10	Spurn Head	29	1006.2	-2	W	3	o	57	92	6	5	-	-	10	10	800
	Catterick	175	1006.5	-6	—	0	roro	56	92	5	5	2	-	7-8	10	1500
	Tynemouth	108	1007.6	-6	NW	2	o/r	56	92	6	6	-	-	10	10	1500
11	St. Abbs Head	280	1007.0	-6	SSW	1	o/r	57	85	7	8	2	-	7-8	10	1500
	Leuchars	36	1007.2	-2	NE	1	zo	57	97	6	5	-	-	10	10	450
12	Renfrew (Abbots I.)	19	1007.6	-6	WSW	2	iro	55	92	6	5	-	-	10	10	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1008.4	+2	NNW	4	rr	55	97	7	6	2	-	4-6	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1008.5	+4	WNW	1	iro	54	97	7	5	2	-	7-8	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1007.8	+2	E	2	c	54	97	5	5	7	-	7-8	10	800
16	Lerwick	156	1009.9	0	E	2	c	54	92	6	5	2	-	7-8	10	800
17	Blacksod Point	18	1014.1	+2	W	4	c	53	92	8	3	3	-	9	9	800
18	Malin Head	84	1010.0	+4	NW	4	c	55	85	8	2	-	-	7-8	7-8	5700
	Aldergrove	268	1009.8	+2	WNW	2	c/d	53	92	8	5	7	-	7-8	9+	1600
19	Birr Castle	173														
20	Valentia Obsy.	30	1017.4	+2	NW	4	c	56	75	8	5	-	-	9+	9+	2500
	Roches Point	22	1014.8	+8	NW	5	b	53	85	8	5	-	-	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 17th July — 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)	Med. (24)	High (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 16th Hrs. (36)
London (Kew)	1008.4	+6	WNW	2	ido	57	92	6	5	2	-	7-8	10	1500	1	*	62	56	55	5	3	0.0
Croydon	1008.1	+4	W/N	2	zo	56	97	5	5	2	-	10	10	1500	1	*	61	55	55	5	6	0.0
S. Farnborough	1008.5	+10	WSW	3	o/d	56	55	6	5	-	-	10	10	1500	1	*	(65)	55	55	11	1	0.0
Boscombe Down	1009.2	+8	NW	4	c	56	92	8	5	7	-	4-6	7-8	4000	1	*	71	55	54	Tr	0.2	3.4
Calshot (Sthmtn.)	1008.9	+2	NW	3	zo	59	85	6	5	3	-	9	9+	1500	1	§1	71	56	55	-	-	2.6
Lympne	1008.8	+6	WNW	2	ido	56	97	5	5	-	-	10	10	450	1	2	61	55	55	2	3	0.0
Manston	1007.4	+8	W/N	2	dodo	57	97	4	6	-	-	10	10	450	1	*	67	56	56	0.2	12	0.2
Shoeburyness	1007.9	+8	W/N	3	c	57	92	5	5	7	-	7-8	9+	4000	1	*	64	56	56	2	10	0.0
Felixstowe	1006.5	+4	WNW	3	roro	57	97	6	6	2	-	7-8	10	800	2	2	72	55	55	Tr	8	1.6
Gorleston	1006.1	+6	WSW	3	roro	56	92	6	6	-	-	10	10	1500	1	1	65	55	52	3	16	5.0
Mildenhall	1006.5	+6	W/S	3	iro	55	97	5	6	2	-	7-8	10	450	1	*	62	54	54	1	16	0.0
Cranwell	1006.3	-2	NW	3	roro	55	97	6	5	-	-	10	10	450	1	*	62	54	54	3	4	0.0
Birmingham	1008.0	+2	NW	3	c/r	54	97	6	6	2	-	9	10	800	1	*	68	53	51	*	2	1.0
Upper Heyford	1008.0	+6	W	1	c/d	54	97	6	5	2	-	9+	10	450	1	*	70	53	52	Tr	9	*
Ross-on-Wye	1009.4	+6	W	3	bc	57	55	8	5	-	-	4-6	4-6	2500	1	*	69	55	54	1	3	1.0
Hartland Point	1013.3	+14	SW	5	c	55	75	8	8	-	-	7-8	7-8	2500	1	3	60	53	52	2	0.3	0.2
Bristol	1010.3	+14	WNW	3	c	56	85	8	8	6	-	7-8	7-8	2500	1	*	67	55	54	-	3	1.2
Portland Bill	1010.3	+20	NW	4	bc	58	85	8	1	4	-	4-6	4-6	4000	1	3	60	57		-	—	
Plymouth	1013.5	+16	NW/W	5	bc	56	75	8	7	-	2	2-3	4-6	1500	1	2	63	56	53	2	1	0.0
The Lizard	1015.5	+10	NW	6	bc	56	75	8	8	6	-	4-6	4-6	2500	0	3	61	53	*	8	-	0.8
Scilly (St.Mary's)	1016.3	+12	NW	4	c	57	75	8	8	8	4	4-6	9	2500	1	3	65	55		1	-	5.3
Guernsey																						
Pembroke	1013.3	+10	NW	5	bcq	55	75	8	2	6	-	2-3	4-6	1500	1	2	60	53	*	2	1	0.2
Holyhead	1010.2	+10	WNW	6	bc	54	85	8	8	3	1	1	4-6	2500	1	4	62	53	52	Tr	1	0.0
Chester (Sealand)	1008.7	+10	WNW	5	c/r	55	85	7	6	2	-	7-8	10	800	1	*	68	55	53	Tr	4	1.6
Manchester	1007.2	-2	WNW	4	ido	56	92	6	6	2	-	9+	10	450	1	*	71	53	53	0.1	3	3.5
Spurn Head	1004.6	0	W/S	4	iro	57	97	5	5	-	-	10	10	800	1	2	58	54	*	1	2	0.0
Catterick	1005.0	-6	WNW	2	rr	55	92	7	6	2	-	7-8	10	800	1	*	65	55	54	Tr	1	0.4
Tynemouth	1005.1	-14	NW	3	rr	54	92	6	-	2	-	10	10	1500	1	1	60	54	53	2	10	*
St. Abbs Head	1005.2	-12	NW	3	rr	53	97	6	8	-	-	10	10	1500	1	2	60	53	*	1	6	*
Leuchars	1006.0	-2	—	0	rr	56	97	6	5	-	-	10	10	1500	1	*		55	54		2	0.0
Renfrew (Abbots I.)	1006.9	-2	W	2	ido	54	97	8	5	8	-	7-8	10	4000		*	66			1		
Eskdalemuir	1005.4	-6	NW/W	3	c/r	54	85	7	5	2	-	4-6	10	800	1		63	53	52	4	1	0.0
Point of Ayre	1008.1	-2	NW/N	5	c	55	92	7	5	3	-	7-8	9+	800	1	3	62	54		0.6	7	0.0
Tiree	1008.5	+4	WSW	4	roro	54	92	7	-	2	-	10	10	1500	1	3	62	53	*	0.3	5	0.0
Stornoway	1008.5	+2	WNW	2	c/r	54	97	8	5	2	-	4-6	10	1500	1	1	69	53	*	—	1	8.1
Dalwhinnie	1007.8	-2	NNE	1	c	53	92	5	5	-	-	10	10	800	1		63	51	50	0.4	18	0.0
Aberdeen	1006.3	-6	N/W	1	roro	56	97	6	6	2	-	9+	10	800	1	1	62	54	51	-	0.2	5.2
Wick	1007.2	-2	ENE	1	F	54	97	1	-	-	-	10	10	<150	1	1	60	53	*	—	—	*
Lerwick	1009.1	-4	NE/E	3	ido	53	97	7	5	2	-	7-8	10	800	0	*	57	52	*	-	Tr	0.0
Blacksod Point	1014.1	+2	WNW	3	bc	54	85	8	3	4	-	2-3	4-6	1500	0	2	59	51	*	0.5	0.2	*
Malin Head	1010.0	+6	NW/N	5	c	55	85	8	2	-	2	4-6	7-8	5700	0	3	59	50	*	1	2	0.0
Aldergrove	1009.9	+2	WNW	3	c	54	85	8	8	3	1	9	9+	1500	1	*	64	51	49	3	5	0.0
Birr Castle	1014.1	+4	NW	2	c	53	85	8	5	-	-	9	9	2500	1	*	62	50	47	12	-	2.5
Valentia Obsy.	1016.6	-2	W	2	iro	56	85	8	5	-	-	10	10	2500	1	2	61	54	49	0.2	0.3	3.4
Roches Point	1015.8	+4	NW/W	4	bc	55	85	8	5	3	-	2-3	4-6	2500	1	2	64	53	*	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.)	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	idodororcmo	cdorocm	circdomo	62	56	55	5	3	0.0	*	*	6
Croydon	217	cmododdmdo	dororr	dororoirmo	61	55	55	5	6	0.0	*	*	6
Greenwich (Royal Observatory)	149	cromo	rorrmo	rRoddm	60	55	54	14.5	4.8	0.0	96	91	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	61	56	55	10.6		—	99	91	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	60	54	54	5.3	4.1	-	94	91	*
Camden Square	110	cr	cr	*	61	55	54	9.4	3.3	*	*	91	*
Kensington	80	crcm	cr	*	61	56	54	5.0	3.5		96	91	*
Hampstead Observatory	450	or	or	or	59	53	52	5.6	3.4	-	*	99	*

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.
0.2	18h 16th	<0.1	23h 16th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 16th July Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 17th July 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

Thursday 18th July 1940.

No. 28728

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

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	+6	WNW	4	c/p₀	65	55	8	8	7	-	7-8	7-8	2500
	Croydon	1009.6	+6	W'N	3	c/p₀	64	65	8	8	3	-	4-6	7-8	2500
	S. Farnborough	1010.0	+6	WNW	4	c/p₀	66	55	9	8	6	-	7-8	7-8	1500
	Boscombe Down	1011.4	+10	W'N	5	c	63	55	8	8	-	-	7-8	7-8	2500
	Calshot (Soton.)	1011.0	+8	NW'W	4	c	65	55	8	2	-	-	7-8	7-8	2500
	Lympne ...	1010.2	+10	W'N	2	z₀	60	85	6	8	6	-	7-8	9	2500
	Manston ...	1008.9	+10	WNW	4	z₀	64	65	6	8	3	-	4-6	7-8	1500
2	Shoeburyness ...	1008.9	+2	W'N	3	c	68	65	8	8	7	-	4-6	7-8	4000
	Felixstowe ...	1008.0	+8	WNW	4	p₀	63	75	8	9	7	-	7-8	9+	1500
	Gorleston ...	1006.2	+4	W	3	c/p₀	58	85	7	8	-	-	10	10	2500
	Mildenhall ...	1007.6	+8	W	4	c	61	75	8	8	7	-	7-8	9+	1500
	Cranwell ...	1007.3	+10	W	5	c	60	65	7	5	7	-	7-8	10	800
3	Birmingham	1010.0	+4	NW	4	c	58	65	8	7	-	-	9+	9+	2500
	Upper Heyford	1009.5	+8	WNW	4	c	64	55	8	8	3	-	7-8	7-8	2500
4	Ross-on-Wye ...	1011.3	+8	W'N	4	c	60	65	9	4	-	-	7-8	7-8	4000
5	Hartland Point	1014.7	+6	WNW	4	bc	59	75	9	5	4	3	2-3	4-6	2500
	Bristol	1012.2	+8	WNW	4	bc	63	55	9	8	6	-	4-6	4-6	4000
	Portland Bill ...	1013.7	+10	WNW	4	c	62	65	8	2	-	-	7-8	7-8	4000
	Plymouth ...	1015.2	+6	NW'W	5	c	61	55	9	1	-	-	7-8	7-8	2500
	The Lizard ...	1016.8	+6	W'S	4	bc	62	75	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1017.3	+2	W	4	bc	65	75	8	8	4	4	2-3	4-6	2500
	Guernsey ...														
6	Pembroke ...	1013.7	+2	WNW	4	cq	55	85	8	8	-	-	7-8	7-8	1500
7	Holyhead ...	1010.4	-2	W'N	5	bc	61	65	9	8	4	4	4-6	4-6	2500
	Chester (Sealand)	1009.3	+2	WNW	6	c	60	65	8	8	-	-	9+	9+	1500
8	Manchester ...	1008.1	+2	W'S	5	id₀	57	75	7	5	3	-	7-8	10	1500
10	Spurn Head ...	1004.6	0	W'S	6	r₀r₀	57	97	5	5	-	-	10	10	450
	Catterick ...	1004.6	-2	W'N	3	r₀r₀	59	75	8	6	2	-	2-3	10	800
	Tynemouth ...	1004.4	-6	NW	3	ip	57	92	6	-	2	-	10	10	1500
11	St. Abbs Head	1003.4	-8	NNW	4	pf	52	97	3	6	2	-	9	10	450
	Leuchars ...	1004.7	-6	NNW	2	RR	55	92	6	5	-	-	10	10	450
12	Renfrew (Abbots I.)	1006.5	+2	WNW	4	pp	56	97	6	6	2	-	2-3	10	1500
	Eskdalemuir ...	1005.3	0	NW	2	pp	54	92	7	6	2	-	4-6	10	800
	Point of Ayre ...	1008.1	0	NNW	6	c	58	85	8	8	2	-	4-6	10	1500
13A	Tiree	1008.6	0	NW	3	c	58	85	8	8	-	-	7-8	7-8	1500
13B	Stornoway ...	1009.1	+4	NW	3	c/pp	56	92	8	5	2	-	9	10	1500
15	Dalwhinnie ...	1005.9	-6	N	1	rr	54	92	5	6	-	-	10	10	1500
	Aberdeen ...	1004.9	-8	N	2	pp	54	97	6	6	2	-	9+	10	450
	Wick	1007.0	-2	NE	2	c/pp	54	97	6	5	1	-	7-8	10	800
16	Lerwick... ...	1008.5	-6	NE'E	4	c	55	85	8	5	7	-	7-8	9+	1500
17	Blacksod Point..	1013.3	-2	W'S	3	c	59	85	9	7	-	-	7-8	7-8	4000
18	Malin Head ...	1010.7	+4	NNW	5	c	57	75	8	8	7	-	4-6	7-8	5700
	Aldergrove ...	1009.3	-6	NW'W	5	c	61	65	9	2	3	1	7-8	9	2500
19	Birr Castle ...	1012.9	-6	NW	2	c	64	55	8	5	-	1	7-8	7-8	2500
20	Valentia Obsy. †	1015.6	-2	W	2	ir₀	57	92	7	5	-	-	10	10	1500
	Roches Point ...	1014.3	-10	W'S	3	c	61	75	8	3	3	5	4-6	7-8	1500

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

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)	1010.0	+4	W	4	c	65	45	8	8	-	-	7-8	7-8	2500	1	*
Croydon	1010.0	+4	W'S	4	bc	63	55	8	8	3	-	4-6	4-6	4000	1	*
S. Farnborough	1010.7	+2	W'S	4	c	63	45	9	8	3	-	4-6	7-8	4000	1	*
Boscombe Down	1011.5	0	W	5	c	60	65	8	8	7	-	7-8	7-8	4000	1	*
Calshot (Soton.)	1011.6	+2	WNW	5	bc	63	55	8	1	6	6	Tr	4-6	4000	1	2
Lympne	1010.3	+2	W	4	bc	64	45	8	8	6	-	2-3	2-3	4000	1	§3
Manston	1009.3	+4	WNW	4	c	64	55	7	8	3	-	7-8	9	4000	1	*
Shoeburyness	1009.5	+4	W	3	b	65	55	8	8	-	-	Tr	Tr	4000	0	*
Felixstowe	1008.4	+2	WNW	5	bc	65	55	8	8	6	-	2-3	4-6	4000	1	3
Gorleston	1007.0	0	WNW	3	bc	64	65	7	8	-	-	4-6	4-6	2500	1	2
Mildenhall	1007.9	+4	W'N	4	c	63	55	8	2	3	-	2-3	7-8	2500	1	*
Cranwell	1007.4	+2	WNW	5	c	58	75		7	7	-		10		1	*
Birmingham	1009.3	-2	WNW	4	bc	59	65	8	8	4	-	4-6	4-6	2500	1	*
Upper Heyford	1009.6	0	W'N	4	bc	61	55	8	8	6	-	1	4-6	2500	1	*
Ross-on-Wye	1010.9	-4	W	3	bc	60	65	9	8	-	-	4-6	4-6	4000	0	*
Hartland Point	1012.7	-16	SW	3	ip	54	97	8	8	2	-	4-6	9	2500	1	3
Bristol	1011.7	-2	W	4	bc/p₀	61	75	8	8	6	2	2-3	4-6	4000	1	*
Portland Bill	1012.8	-4	WSW	4	c	60	75	8	5	4	-	4-6	7-8	4000	1	3
Plymouth	1014.0	-10	SW	2	r₀r₀	56	92	6	-	2	-	10	10	1500	1	2
The Lizard	1014.6	-14	W'S	5	pp	58	92	8	8	2	-	9	10	1500	1	3
Scilly (St. Mary's)	1014.8	-20	W	6	c/pp	59	85	7	8	7	-	7-8	9+	1500	1	3
Guernsey																
Pembroke	1012.3	-10	W	4	bc	58	85	8	8	7	9	2-3	4-6	1500	0	3
Holyhead	1009.5	-4	W	4	c	59	75	9	8	3	6	7-8	9	2500	1	3
Chester (Sealand)	1008.6	0	NW'W	5	c/pp	59	75	8	8	7	-	7-8	9+	1500	0	*
Manchester	1007.7	-4	W	4	c	57	85	8	8	7	-	7-8	10	2500	1	*
Spurn Head	1004.8	0	WSW	6	ir₀	57	85	6	6	2	-	7-8	10	800	1	4
Catterick	1004.0	-6	W	2	r₀r₀	55	92	7	6	2	-	4-6	10	1500	1	
Tynemouth	1002.5	-10	WNW	4	ip	56	92	6	-	2	-	10	10	1500	1	2
St. Abbs Head	1002.4	-4	NNW	4	pf	52	97	2	-	-	-	10	10	<150	1	2
Leuchars	1003.3	-6	NW	2	pp	56	97	5	5	-	-	10	10	450	1	*
Renfrew (Abbots I.)	1005.7	-12	NW'W	4	ip₀	56	92	8	5	2	-	4-6	10	4000	1	*
Eskdalemuir	1004.3	-2	NW	3	ip	54	85	8	6	2	-	4-6	10	1500	1	*
Point of Ayre	1007.7	0	NNW	6	gjp	57	92	8	5	1	-	7-8	9+	1500	0	3
Tiree	1008.0	-2	NW'N	3	dd	55	92	7	-	2	-	9+	9+	1500	1	3
Stornoway	1008.5	+16	NW	3	pp	54	97	6	5	2	-	9	10	800	1	2
Dalwhinnie	1005.8	-2	WNW	2	pp	53	92	5	6	-	-	10	10	1500	1	*
Aberdeen	1004.0	-2	N	3	r₀r₀	54	97	5	6	2	-	9+	10	450	1	2
Wick	1005.7	-12	NNE	3	pp	52	97	7	5	2	-	7-8	10	800	1	1
Lerwick	1007.0	-4	NE	5	c	53	85	8	5	7	-	7-8	9+	1500	0	*
Blacksod Point	1012.1	-10	W	3	c	57	85	9	3	5	-	2-3	7-8	4000	0	2
Malin Head	1009.6	-2	NW'N	4	c	56	85	8	5	6	-	2-3	7-8	5700	0	3
Aldergrove	1009.4	0	NW	4	c	58	65	8	8	-	8	4-6	9+	4000	1	*
Birr Castle	1012.4	+2	NW	2	c	58	75	8	5	-	-	9+	9+	2500	0	*
Valentia Obsy. †	1014.7	-6	W	3	r₀r₀	57	97	7	5	2	-	9	10	1500	1	2
Roches Point	1012.8	-8	WNW	3	c/pp	59	92	8	3	7	-	4-6	9	1500	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)	cm₀pr₀cy	cybcy	bcypr₀bc	cpr₀c
Croydon	ddir₀pr₀	cbc,y	bcy,cbc	bccpr₀c
S. Farnborough	cdpr₀	cbccv	cyvbbcb	br₀pc
Boscombe Down	c	cyc	bc	cpr₀
Calshot (Soton.)	cm₀cbc	bccbcy	cybcb	b,cir₀pp
Lympne	r₀ddpcm₀	m₀pr₀bcy	bcyb	bbcwc
Manston	pdd₀cz₀	cpr₀z₀c	cbc	bcc
Shoeburyness	cm₀c	cpr₀bcby	bybw	bbcwc
Felixstowe	r₀r₀ddc	pr₀cbc	bcvbv	bc
Gorleston	pr₀c	oir₀bc	bcpr₀bc	cir₀
Mildenhall	oir₀cm₀c	c	cpr₀cbcc	c
Cranwell	rrm₀c	cir₀	cir₀cr₀r₀	cr₀r₀m₀pp
Birmingham	oc	cPR	bcc	c
Upper Heyford	cm₀pr₀c	bcycy	bcc	ccir₀m₀c
Ross-on-Wye	bcc	cvbvbcby	cR₀bcc	c
Hartland Point	cbc	bccip	ipc	cp
Bristol	cbcy	bcycpr₀	bc	bcr₀c
Portland Bill	bcc	c	c	c
Plymouth	bcy	bcyr₀r₀	r₀r₀cm₀	br₀r₀ppc
The Lizard	bc	cpp	cpppp	c
Scilly (St. Mary's)	cbc	bccp,	cipc	c
Guernsey				
Pembroke	bccq	cbc	pr₀cq	cpr₀
Holyhead	bcc	bcpr₀c	cbcc	c
Chester (Sealand)	cm₀r₀c	cppc	cpr₀ppcz₀	cz₀bcc
Manchester	id₀idir₀	id₀r₀r₀m₀PR	cir₀ccir₀	cir₀
Spurn Head	r₀r	oqir₀		oqpp
Catterick	brrcr₀r₀	or₀r₀	r₀r₀ppm₀	ppm₀c
Tynemouth	orr	ip	ORR	opp
St. Abbs Head	rrmoc	ppFf	m₀ppc	ppmf₀
Leuchars	RRppRRm₀	cRRcrrm₀	cm₀ppr₀r₀	cm₀d₀r₀p
Renfrew (Abbots I.)	cm₀ir₀rr	cm₀crr₀r₀	cir₀	cir₀c
Eskdalemuir	ccpp	cppip	cip	cpp
Point of Ayre	ir₀c	c	ip₀ce	c
Tiree	c	c	bdr₀	oid₀
Stornoway	cpr₀	c	cpp	cppp₀
Dalwhinnie	ip₀	ppo		cip
Aberdeen	ocpp	crr₀	r₀r₀c	cr₀r₀
Wick	Fpr₀	d₀fpp	ppm₀	ppm₀c
Lerwick	cid₀	c	[illegible]	cir₀ip
Blacksod Point	bcc	bc	c	c
Malin Head	c	cdpcc	c	c
Aldergrove	c	cpr₀c	cpr₀c	c
Birr Castle	cy	c		cir₀
Valentia Obsy. †	r₀cir₀	ir₀idid₀r₀r₀	idpr₀c	cipir₀
Roches Point	pr₀c	cprc	ipc	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.*

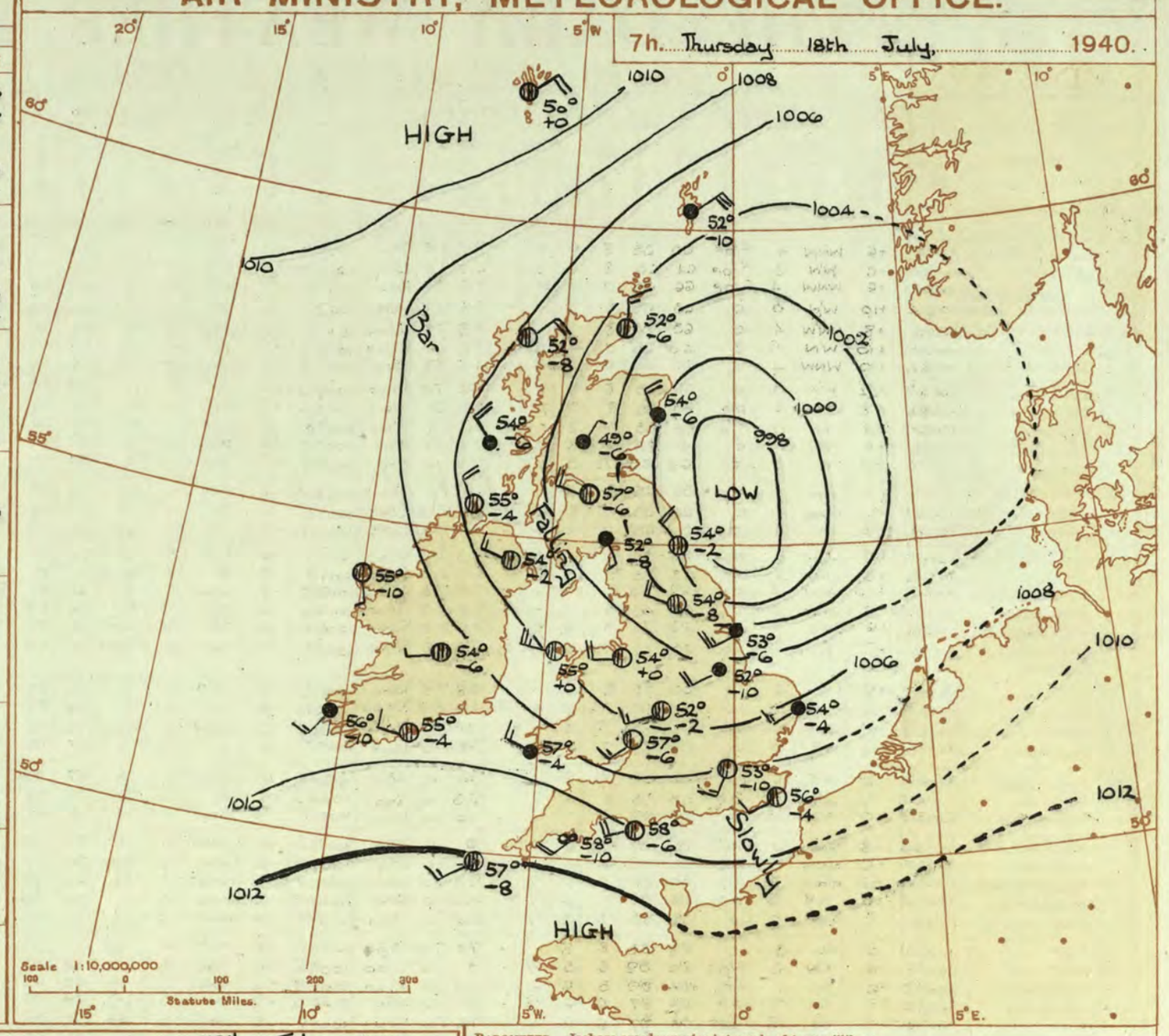
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 17th July			18h. G.M.T.			01h. G.M.T. 18th July			07h. G.M.T.		
IIIi	$C_L C_M$	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-	03748	04428	5-	03748	04428	6-	62548	02468	6-	62628	03468
115	--	67109	27369	--	67109	08269				87	02834	04467
203												
206	52	64635	02268	62	61635	04168	52	01745	32158	52	62846	02168
210	5-	64428	01868	52	22726	02368	52	22736	02368	5-	54528	30358
220	53	01854	27205	82	61747	26218				5-	58628	15158
230	5-	62638	26368	62	64635	26388	52	02746	16468			
245	62	64647	63368	62	02835	02328	5-	62758	65428	52	62746	30568
260							52	02745	00068	5-	64648	00068
277				61	62746	27668	57	02856	26468	62	21736	27558
279												
285	6-	63738	26568	52	62844	22368				6-	61638	28568
288	52	22745	28368				52	66436	22568	6-	62538	24368
273										10	01961	28101
301	5-	51638	26668	87	02744	25627	82	31735	61688	81	02746	26568
321	81	22645	58468	67	05645	56527	62	64642	24368	62	64634	22368
299	57	05646	24328	6-	64648	24368	6-	62648	24568			
292	57	22846	24368	52	62655	24368	52	64634	22468	52	62744	57468
310	--	02628	26528	--	02636	24126					02628	24528
316	86	02744	61526	88	02754	22425	52	62646	24268	57	02646	22467
333	77	02953	28516	88	81965	24387				5-	02977	28227
334	--	02855	60526								02843	24415
340				84	02955	24486	57	02864	22226	50	02964	23315
136	86	05644	58566	87	81765	22487	57	02773	19467	52	64632	22468
336	--	02742	28525	--	02855	28426					22758	24428
350	87	02755	24357	88	02863	24425						
368	86	02855	25515	24	01954	23585	73	25846	24486			
379	20	01754	26414	80	25854	24484	57	05652	22214	53	41646	22247
390	84	02745	28426	84	01864	25425	03	05690	23315	57	62645	22568
382	26	02855	24425	86	02964	25416	05	01790	23214	62	02835	20358
438	80	02754	24514							8-	02857	23517
439	80	01764	26414	40	01875	26415	53	01761	24113	62	62645	23167
409	85	01958	25514	62	64017	21368	51	62745	24468	62	02737	24468

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 18th July, 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. 18th July 1940
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate southwest wind; occasional rain; bright intervals; perhaps local thunderstorms; cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light or moderate west to southwest wind; mainly cloudy; occasional light rain.
7 North Wales ... 8 N.W. England	Moderate northwest wind, fresh or strong locally on coasts, decreasing; cloudy: occasional rain; cool.
9 N. Midlands ... 10 N.E. England	Moderate northwest wind fresh locally on coasts, backing west; dull, some rain; cool.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate or fresh northwest wind, strong locally on coasts, decreasing later; dull, some rain; cool.
13 A. W. Scotld. / B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate north to northeast wind, fresh locally on coasts; dull, some rain; local coast fog; cool
17 N. W. Ireland	Light or moderate northwest wind; bright intervals; occasional rain; cool.
18 N. E. Ireland	as 7-8.
19 S. E. Ireland 20 S. W. Ireland	Light or moderate west to southwest wind; cloudy; occasional rain; Cool.

GENERAL INFERENCE.

A depression off southeast Scotland is moving slowly west, and small irregularities are moving east or southeast across the British Isles. There will be further considerable rain in the North, and occasional light rain in the South.

FURTHER OUTLOOK.

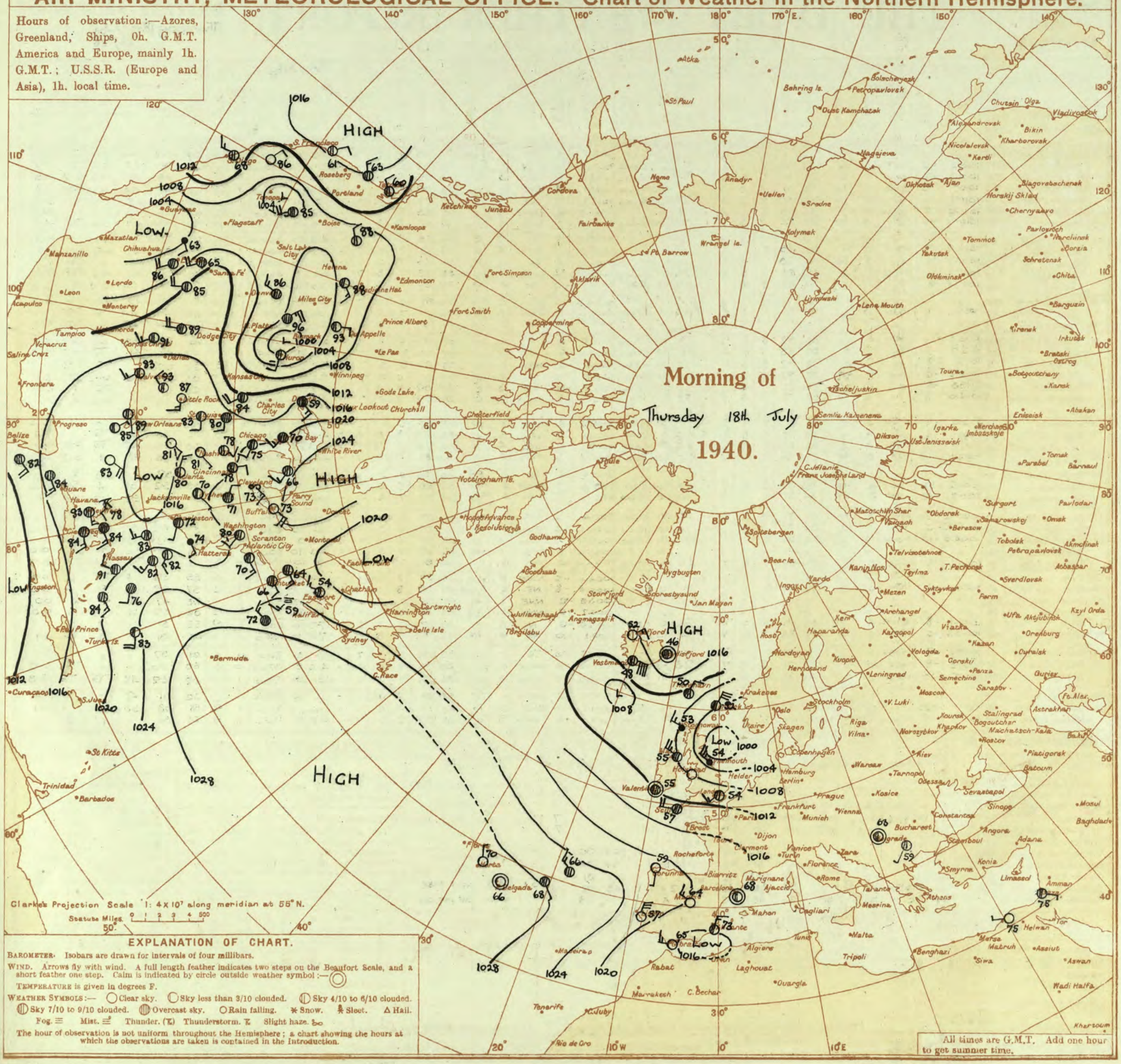
Unsettled; occasional rain.

Forecasts issued at 1020.

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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 18th July 1940.

No. 28728

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

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	1010.4	-6	W'S	3	bc	54	75	8	5	3	-	2-3	2-3	4000
	S. Farnborough	226	1010.5	-6	SW'W	2	b	50	85	8	5	4	-	Tr	1	4000
	Boscombe Down	417	1010.7	-10	SW'S	2	bc	48	97	8	5	3	-	1	2-3	4000
	Calshot (Sthmtn.)	8	1011.2	-4	W	2	bc	52	92	8	5	3	-	Tr	2-3	4000
	Lympne	346	1011.6	-6	WSW	2	b	50	85	8	-	3	-	0	1	-
	Manston	154	1010.2	-4	SW	3	bc	51	85	7	5	3	1	Tr	2-3	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1009.2	-2	WSW	4	b	56	85	8	-	4	-	0	1	-
	Gorleston	5	1007.9	-4	SW	3	bc	54	85	7	-	3	-	0	2-3	-
	Mildenhall	19	1007.8	-6	SW'W	4	c	52	85	7	5	3	-	7-8	9	4000
	Cranwell	240	1006.7	-6	S	3	pp	53	85	7	5	-	-	10	10	800
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1009.5	-6	WSW	3	c	52	97	7	5	4	-	4-6	9	5700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010.8	-12	W	4	qjp	58	92	8	8	2	-	7-8	10	2500
	Bristol	209	1010.6	-10	SW	2	c	55	85	7	5	4	-	4-6	7-8	2500
	Portland Bill	32	1011.4	-8	W	2	c	58	92	8	5	-	-	10	10	4000
	Plymouth	82	1012.2	-6	NW	2	pp	57	92	6	5	-	-	9+	9+	1500
	The Lizard	240	1013.5	-8	W	3	ppc	55	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1014.0	-8	W	4	c	57	92	7	8	7	-	7-8	9+	1500
	Guernsey	175														
6	Pembroke	142	1010.4	-2	WNW	4	cq	57	97	7	8	2	-	7-8	10	800
7	Holyhead	26	1008.1	-6	W'N	4	c	56	85	9	5	3	6	4-6	9	2500
	Chester (Sealand)	16	1007.2	-8	W'S	3	z	56	65	6	8	7	-	4-6	9+	4000
8	Manchester	70	1006.1	-12	W'S	5	ip	55	75	7	6	2	-	4-6	10	800
10	Spurn Head	29														
	Catterick	175	1001.2	-14	W	4	pp	53	92	5	6	2	-	4-6	10	800
	Tynemouth	108	999.7	-16	NW	5	RR	54	97	5	-	2	-	10	10	1500
11	St. Abbs Head	280	1000.2	-20	NNW	5	pp	51	97	7	8	2	-	7-8	10	1500
	Leuchars	36	1002.2	-6	NW	1	id	54	85	6	5	-	-	10	10	1500
12	Renfrew (Abbots I.)	19	1004.0	-10	WNW	4	ip	54	92	8	5	-	-	9+	9+	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1006.3	-8	NW	5	c	55	92	8	5	7	-	4-6	9+	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1008.1	-6	NW	3	pp	53	92	6	5	2	-	9	10	800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1004.4	-8	ENE	4	pp	52	92	6	5	2	-	7-8	10	800
16	Lerwick	156	1005.8	-6	NE	6	c	52	85	7	5	2	-	7-8	10	800
17	Blacksod Point	18	1009.8	-8	WSW	1	c	54	97	8	-	7	-	0	10	-
18	Malin Head	84	1007.8	-8	NW	6	c	55	75	8	6	7	-	2-3	7-8	5700
	Aldergrove	268	1007.7	-10	WNW	3	c	53	85	8	5	1	-	9	9+	5700
19	Birr Castle	173														
20	Valentia Obsy.	30	1011.7	-20	-	0	o/pp	55	92	8	5	-	-	10	10	1500
	Roches Point	22	1011.3	-12	WNW	2	c/p	56	92	7	6	7	-	7-8	9	1500

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

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)
London (Kew)	1008.7	-6	SW	3	c/pp	55	85	8	5	7	-	7-8	10	2500
Croydon	1009.0	-10	SSW	3	c/pp	53	92	8	5	-	-	9+	9+	2500
S. Farnborough	1008.8	-2	SSW	3	ip	53	92	6	5	7	-	9	10	1500
Boscombe Down	1009.1	-4	SW	3	c	55	92	8	5	-	-	9	9	2500
Calshot (Sthmtn.)	1009.7	-2	W'S	3	pp	57	97	7	5	7	-	9	9+	1500
Lympne	1010.7	-4	SW'W	2	c	56	85	8	2	7	-	Tr	9	2500
Manston	1009.0	-2	SW'S	3	c	55	85	8	5	3	-	4-6	9+	5700
Shoeburyness	1009.0	-2	SW	3	c	56	85	8	5	3	-	4-6	9+	4000
Felixstowe	1008.0	-2	SW'W	4	c	56	85	7	5	7	-	7-8	9+	4000
Gorleston	1006.5	-4	SW	3	ip	54	85	7	6	-	-	9+	9+	1500
Mildenhall	1006.2	-2	SW'S	4	c	55	85	7	5	7	-	4-6	10	4000
Cranwell	1004.6	-10	SW	4	pp	52	92	7	5	-	-	10	10	800
Birmingham	1006.6	-2	WSW	3	c/p	52	97	6	5	7	-	9	10	800
Upper Heyford	1008.0	-8	SW'W	3	c	53	97	7	5	-	-	9+	9+	450
Ross-on-Wye	1007.5	-6	SW	3	bc	57	85	8	5	-	-	2-3	2-3	2500
Hartland Point	1008.9	-6	W	4	pp	57	92	8	8	7	-	4-6	9+	2500
Bristol	1008.6	-6	W	2	c	57	97	8	5	7	-	7-8	9+	1500
Portland Bill	1010.1	-6	WSW	4	c	58	92	8	5	7	-	7-8	10	2500
Plymouth	1010.4	-10	SW	4	z	58	92	6	9	7	8	7-8	9+	1500
The Lizard	1011.2	-10	W'S	3	c	57	92	8	8	6	-	7-8	7-8	2500
Scilly (St. Mary's)	1010.8	-8	SW'W	3	c	57	92	8	8	7	-	4-6	9+	1500
Guernsey														
Pembroke	1008.2	-4	WNW	3	pp	57	97	8	8	2	-	7-8	9+	800
Holyhead	1006.1	0	W'N	5	c	55	85	8	5	3	9	4-6	9	7200
Chester (Sealand)	1005.7	0	W'S	4	c	54	75	8	2	7	6	2-3	7-8	2500
Manchester	1004.4	-2	W'S	5	ip	55	85	7	5	7	-	4-6	10	800
Spurn Head	1000.4	-6	SW	5	RR	53	85	6	6	-	-	10	10	450
Catterick	999.3	-8	WNW	4	c/p	54	85	7	6	7	-	4-6	10	1500
Tynemouth	999.2	-2	NW	4	c/p	54	92	7	6	-	-	10	10	1500
St. Abbs Head	999.4	-2	NW	4	pf	51	97	3	-	-	-	10	10	<150
Leuchars	1000.2	-6	WNW	1	pp	53	92	6	5	-	-	10	10	800
Renfrew (Abbots I.)	1002.2	-6	WNW	4	c	57	85	8	5	7	6	4-6	9	2500
Eskdalemuir	1000.6	-8	SSE	1	pp	52	92	6	6	2	-	4-6	10	800
Point of Ayre	1004.3	-6	NW	6	c	54	92	7	5	2	-	9	10	1500
Tiree	1004.1	-6	NW'N	4	dd	54	97	7	6	-	-	10	10	1500
Stornoway	1006.4	-8	NE	4	c/pp	52	92	8	5	7	-	4-6	10	800
Dalwhinnie	1003.9	-6	NNE	1	id	49	92	6	5	-	-	10	10	800
Aberdeen	1000.7	-6	NNW	4	pp	54	97	6	5	-	-	10	10	800
Wick	1002.6	-6	N	3	c	52	97	7	5	2	-	7-8	10	800
Lerwick	1004.1	-10	NE	6	ip	52	92	7	8	2	-	7-8	10	800
Blacksod Point	1007.9	-10	S'E	1	c	55	92	8	3	7	-	9+	9+	800
Malin Head	1005.9	-4	NNW	4	c	55	75	8	8	6	-	4-6	9	5700
Aldergrove	1005.9	-2	WNW	3	c	54	75	9	5	-	-	9+	9+	2500
Birr Castle	1008.4	-6	WSW	1	o/p	54	97	7	5	-	-	10	10	2500
Valentia Obsy.	1009.4	-10	SW'S	3	ip	56	97	7	6	-	-	10	10	800
Roches Point	1009.1	-4	W'N	2	c	55	92	8	5	7	-	4-6	9+	1500

PAST 24 HOURS.

Stations	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 17th Hrs. (36)
London (Kew)	1	*	67	52	46	0.1	Tr	6.1
Croydon	1	*	64	51	46	0.4	Tr	7.2
S. Farnborough	1	*	68	48	42	Tr	0.2	5.5
Boscombe Down	1	*	64	47	44	-	Tr	7.3
Calshot (Sthmtn.)	1	1	66	50	48	-	1	8.4
Lympne	1	§3	66	49	43	1	-	6.2
Manston	0	*	67	48	44	0.1	Tr	5.5
Shoeburyness	1	*	69	53	45	0.1	-	4.8
Felixstowe	1	2	68	54	50	0.2	-	3.8
Gorleston	1	2	64	52	48	1	Tr	1.7
Mildenhall	1	*	66	52	48	0.1	Tr	2.5
Cranwell	1	*	62	51	50	0.6	8	0.4
Birmingham	1	*	61	51	49	3	Tr	3.3
Upper Heyford	1	*	65	50	44	Tr	Tr	*
Ross-on-Wye	0	*	63	52	48	-	Tr	5.9
Hartland Point	1	3	60	53	53	0.1	0.3	7.5
Bristol	1	*	64	51	41	Tr	2	10.3
Portland Bill	1	3	62	56	*	-	2	*
Plymouth	1	2	63	55	53	0.2	6	8.3
The Lizard	1	3	63	54	*	Tr	1	8.8
Scilly (St. Mary's)	1	2	65	55	*	0.3	4	8.7
Guernsey								
Pembroke	1	3	60	56	*	-	1	12.0
Holyhead	1	3	62	53	51	Tr	-	8.3
Chester (Sealand)	1	*	63	53	47	Tr	0.5	4.3
Manchester	1	*	59	54	51	1	0.3	0.3
Spurn Head	1	4	58	52	*	3	8	0.0
Catterick	1	*	59	52	51	4	23	0.0
Tynemouth	1	2	59	53	52	13	44	*
St. Abbs Head	1	3	53	51	*	31	22	*
Leuchars	1	*	57	52	52	20	11	0.0
Renfrew (Abbots I.)	1	*	56	53	53	13	0.4	0.0
Eskdalemuir	1	*	55	51	50	9	4	0.0
Point of Ayre	0	3	59	53	*	0.1	Tr	0.2
Tiree	1	3	59	53	*	Tr	2	0.7
Stornoway	1	2	57	52	*	2	4	0.0
Dalwhinnie	1	*	55	47	48	17	4	0.0
Aberdeen	1	2	56	52	51	19	3	0.0
Wick	1	2	55	51	*	3	8	*
Lerwick	1	*	56	51	*	Tr	Tr	1.1
Blacksod Point	0	1	61	52	*	-	-	*
Malin Head	0	3	59	50	*	-	Tr	1.6
Aldergrove	1	*	62	52	48	Tr	Tr	3.9
Birr Castle	1	*	66	51	48	-	2	7.4
Valentia Obsy.	1	2	58	53	53	3	1	0.1
Roches Point	1	2	64	54	*	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)	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	cmppcy	cybcy	bcyppbc	67	52	46	0.1	Tr	6.1	•	•	8
Croydon	217	ddipp	cbc,y	bcy,cbc	64	51	46	0.4	Tr	7.2	•	•	7
Greenwich (Royal Observatory)	149	c	cby	bcp	68	50	43	-	1	6.7			7
City (Bunhill Row)	—	•	•	•	•	•	•	•	•				
Westminster (St. James' Park)	27	•	•	•	68	52	48	2		6.6	63	96	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	67	51	49	-	0.4		54	94	•
Camden Square	110	o	bc	•	68	52	50	-	1	•	•	91	•
Kensington	80	bcpbc	bc	•	68	51	48	0.1	2		45	96	•
Hampstead Observatory	450	bc	bc	or	60	49	46	-	0.3		•	98	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 18th.

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
0.1	7-9h. 17th.	<0.1	most of period.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 17th July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 18th July 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	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 19th. July 1940.

No. 28729

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

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)...	1008·1	-2	SW'W	3	iR	60	85	7	5	3	-	7-8	9	2500
	Croydon	1008·0	-6	SW'W	4	c/pr	62	75	7	9	3	-	7-8	9+	2500
	S. Farnborough	1008·0	-2	SW	4	c/r	62	75	8	8	7	-	7-8	9+	1500
	Boscombe Down	1008·5	+2	WSW	4	c/d	59	85	8	5	7	-	7-8	9+	2500
	Calshot (Soton.)	1009·3	-2	WSW	5	c/r	61	92	7	8	3	-	7-8	9	1500
	Lympne ...	1009·9	-2	SW	5	c/pr	59	92	6	2	-	-	9+	9+	1500
	Manston ...	1008·0	-6	SW'W	4	c/pr	63	85	7	9	9	-	7-8	9	1500
2	Shoeburyness ...	1008·2	-8	W'S	3	iro	61	85	8	8	2	-	7-8	10	2500
	Felixstowe ...	1006·2	-10	SW	5	c	64	75	7	8	8	-	7-8	9	2500
	Gorleston ...	1005·8	-4	SW	4	c/r	60	85	7	8	-	-	9+	9+	2500
	Mildenhall ...	1005·4	-6	W'S	5	c	64	65	8	8	6	3	4-6	9	1500
	Cranwell ...	1004·5	0	W	5	c	61	65	7	7	7	-	7-8	9+	4000
3	Birmingham	1006·0	-4	W	4	bc	64	45	8	7	-	-	4-6	4-6	4000
	Upper Heyford	1007·1	-4	WSW	3	c	64	65	8	8	7	-	7-8	9	1500
4	Ross-on-Wye ...	1007·2	0	SW'W	3	iro	56	85	8	9	-	-	9+	9+	2500
5	Hartland Point	1008·9	-2	WSW	4	c	60	85	8	2	6	-	2-3	9	2500
	Bristol	1008·3	-4	WSW	4	c	63	75	8	8	7	·	4-6	9	1500
	Portland Bill ...	1010·4	+8	SW	4	c	59	92	8	5	-	-	10	10	2500
	Plymouth ...	1010·0	-2	SSW	4	c	60	85	8	5	7	-	4-6	9+	2500
	The Lizard ...	1010·6	-6	-	0	df	57	97	3	5	-	-	10	10	1500
	Scilly (St.Mary's)	1009·8	-4	S	1	bc	65	75	8	8	7	3	4-6	4-6	1500
	Guernsey ...														
6	Pembroke ...	1008·6	-2	W	3	c	59	85	8	8	7	-	2-3	10	1500
7	Holyhead ...	1006·4	+2	SW'W	4	c	61	55	9	8	3	4	2-3	7-8	2500
	Chester (Sealand)	1005·9	+4	WNW	5	c	60	65	8	2	-	2	4-6	7-8	2500
8	Manchester ...	1004·8	+2	W'N	5	c	60	65	8	8	3	-	7-8	9+	2500
10	Spurn Head ...	1001·9	+10	WSW	6	iro	56	92	6	6	-	-	9+	9+	800
	Catterick ...	1001·4	+8	NW'W	4	c	58	75	8	5	2	-	7-8	10	1500
	Tynemouth ...	1000·2	+10	NNW	3	c/r	57	92	6	8	-	-	9+	10	2500
11	St. Abbs Head	1001·5	-8	NW	3	c/pr	53	97	7	5	2	-	9	10	800
	Leuchars ...	1001·0	+2	W	1	o/d	57	92	7	5	-	-	10	10	450
12	Renfrew (Abbots I.)	1002·1	+2	NW'W	4	roro	61	75	8	5	2	-	4-6	10	2500
	Eskdalemuir ...	1001·3	+4	WNW	2	c	56	85	8	5	-	-	10	10	1500
	Point of Ayre ...	1004·4	+2	NW'N	5	c	57	85	8	5	7	-	9	10	2500
13A	Tiree	1003·8	0	N'W	3	c	57	85	8	5	7	-	4-6	7-8	2500
13B	Stornoway ...	1006·2	-4	NE	4	roro.	53	97	6	5	2	-	9	10	1500
15	Dalwhinnie ...	1003·6	-2	NNE	1	r	53	92	6	6	-	-	10	10	800
	Aberdeen ...	1001·1	-2	NNE	1	c	60	85	7	5	3	-	4-6	9+	1500
	Wick	1002·0	-4	NNE	4	dF	53	97	1	-	-	·	10	10	<150
16	Lerwick... ...	1004·3	0	NE	5	iro	52	85	7	9	2	-	7-8	10	800
17	Blacksod Point..	1006·9	-6	W	1	c	59	85	7	5	-	-	10	10	800
18	Malin Head ...	1005·7	0	N	4	c	58	75	8	2	7	-	4-6	7-8	4000
	Aldergrove ...	1005·0	-6	WNW	3	c	61	65	9	7	-	-	9+	9+	2500
19	Birr Castle ...	1006·9	-6	NW	1	c	65	65	7	5	-	-	9	9	2500
20	Valentia Obsy. †	1009·0	-2	W	4	c	62	85	8	8	3	-	7-8	9+	1500
	Roches Point ...	1007·5	-10	W'N	3	pr	60	85	8	3	-	-	7-8	7-8	1500

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

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)	1008·0	+2	SW	4	c	63	75	8	8	7	-	4-6	7-8	2500	1	*
Croydon	1008·3	+2	SW	3	bc	60	85	8	4	6	-	4-6	4-6	2500	1	*
S. Farnborough	1008·2	0	SW	4	c	61	75	8	8	3	3	4-6	7-8	2500	1	*
Boscombe Down	1008·3	-2	SW'S	4	c	59	85	8	8	7	-	7-8	9	2500	1	*
Calshot (Soton.)	1009·2	-2	WSW	4	c	61	85	7	8	3	-	9	9+	1500	1	3
Lympne	1009·9	0	SW	5	c	61	75	8	8	7	-	2-3	9	1500	1	§3
Manston	1008·2	+6	WSW	3	c/pr	61	85	8	8	4	-	2-3	9	1500	1	*
Shoeburyness	1008·3	+2	SW	3	c	61	75	8	5	7	9	4-6	7-8	4000	1	*
Felixstowe	1006·5	-2	WSW	4	bc	65	75	7	8	6	-	2-3	4-6	2500	1	3
Gorleston	1005·6	+2	SW'S	3	c	65	65	7	8	4	-	4-6	7-8	2500	1	2
Mildenhall	1005·5	+4	SW	3	r/tlr	58	85	9	9	7	-	7-8	9	1500	1	*
Cranwell	1004·9	+4	WNW	4	c	61	65	8	2	7	9	1	7-8	4000	1	*
Birmingham	1006·2	0	WNW	3	c	61	55	8	7	3	-	4-6	7-8	4000	1	*
Upper Heyford	1006·7	-2	SW'W	4	c	62	75	8	8	3	-	4-6	7-8	1500	1	*
Ross-on-Wye	1007·4	0	W	2	c	60	75	8	8	4	-	7-8	7-8	4000	0	*
Hartland Point	1008·1	-4	W	3	c	61	85	9	3	-	-	7-8	7-8	2500	0	3
Bristol	1007·8	-2	WSW	3	c	62	75	8	8	6	-	4-6	7-8	4000	1	*
Portland Bill	1009·6	-10	SW	4	c	59	92	8	5	4	-	10	10	4000	1	3
Plymouth	1009·3	-6	SW	2	cjp	57	97	6	5	2	-	9	9+	450	1	2
The Lizard	1008·6	-8	-	0	bc	59	97	8	8	4	-	4-6	4-6	2500	1	2
Scilly (St.Mary's)	1009·2	-2	W'N	2	bc	64	75	8	8	-	9	1	2-3	2500	0	1
Guernsey																
Pembroke	1007·2	-4	W'S	3	bc	62	85	8	2	6	-	2-3	4-6	2500	1	1
Holyhead	1005·6	-6	SSW	4	bc	59	75	9	8	3	1	4-6	4-6	2500	0	2
Chester (Sealand)	1005·8	-2	WSW	3	c	63	65	8	8	3	9	7-8	7-8	4000	1	*
Manchester	1005·3	+2	W	4	c	62	55	8	8	3	6	4-6	7-8	4000	1	*
Spurn Head	1003·1	+2	WSW	6	rr	56	92	6	6	-	-	10	10	800	1	4
Catterick	1002·6	+2	W	2	c/r	57	85	8	5	2	-	4-6	10	800	1	
Tynemouth	1000·9	+8	W	3	c/r	57	85	6	6	-	-	10	10	1500	1	2
St. Abbs Head	1000·9	0	WNW	3	c	55	92	8	5	2	-	7-8	10	1500	1	2
Leuchars	1000·6	+2	NW	1	c/r	58	85	8	5	7	-	7-8	10	1500	2	*
Renfrew (Abbots I.)	1002·1	0	W	3	iro	60	85	8	5	7	-	9	10	1500	1	*
Eskdalemuir	1001·7	0	WNW	3	iro	54	92	6	6	-	-	10	10	800	1	*
Point of Ayre	1004·4	0	WNW	3	c	57	85	8	8	7	-	7-8	9+	2500	0	2
Tiree	1003·4	0	WNW	2	c	55	85	8	5	-	-	9	9	1500	2	0
Stornoway	1004·1	-8	NE	4	roro	53	97	8	5	2	-	9	10	1500	1	2
Dalwhinnie	1002·7	-6	NW	1	c	53	85	6	4	-	-	10	10	800	1	*
Aberdeen	1001·0	0	E'N	1	bc	60	75	7	2	3	-	4-6	4-6	1500	1	1
Wick	1001·1	-4	NE	4	dF	53	97	1	-	-	-	10	10	<150	1	2
Lerwick	1003·3	-8	NE	6	c	52	85	7	5	2	-	7-8	10	800	1	*
Blacksod Point	1005·2	-8	W'S	1	c	58	92	8	5	-	-	9+	9+	2500	0	2
Malin Head	1004·8	-2	NW	3	bc	57	75	8	2	-	4	2-3	4-6	5700	0	3
Aldergrove	1004·6	0	NW	2	bc	60	65	9	2	3	1	1	4-6	2500	1	*
Birr Castle	1005·6	-6	WSW	2	bc	64	75	8	5	-	-	4-6	4-6	2500	0	*
Valentia Obsy. †	1007·6	-6	SW'W	3	o/r	58	97	6	5	-	-	10	10	800	1	2
Roches Point	1006·7	+2	W'N	3	c	63	75	8	3	3	3	4-6	7-8	1500	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)	crocirR	cproc	cbc	bcw
Croydon	crorcpro	cpr	bcc	cbc
S. Farnborough	roroc	cPRprbc	bec	cbcc
Boscombe Down	ciroc	cpr	cmo	c
Calshot (Soton.)	ciroRRmoc	c	c	ccproc
Lympne	roqprpro	moproc	cbcbw	bcwc
Manston	ciroPR	cproc	cprobc	bcwc
Shoeburyness	iroiriRc	circ	cbcwc	cwbc
Felixstowe	ciroc	TLRcbc	bcuc	bcb
Gorleston	ciro	c	cproc	bcwbc
Mildenhall	cirormoc	cprotlrv	cbcw/	bcwbwbc
Cranwell	rororrc	cbcc	c,b,c	cbcc
Birmingham	rocbc	bc	cbc	bcc
Upper Heyford	croc	cprobc	ccprc	cbcmo
Ross-on-Wye	bccro	cbccpoc	cbcb	cbc
Hartland Point	cprc	cbc	bcc	cbcc
Bristol	cRodr	cbccbc	bcb	bbcwc
Portland Bill	c	c	c	cbc
Plymouth	cmoc	cidjp	jpidocmo	cmofcm
The Lizard	rrdf	dfcbc	bcw	c
Scilly (St.Mary's)	cbc	bcb		ciro
Guernsey				
Pembroke	proc	cbc	bcc	cpro
Holyhead	cbybc	cybc	promc	cmoroc
Chester (Sealand)	cybc	bcyc	cbcbw	pbccw
Manchester	crodpro	coy	bcybmo	bwcmopro
Spurn Head	qiro	orr	oc	bc
Catterick	c	ciroc	cororoc	c
Tynemouth	oir	coir	oidc	cbc
St. Abbs Head	rfmoc	c	frrmc	mrc
Leuchars	cmoRRdd	cddciro	cmdrop	cmriroc
Renfrew (Abbots I.)	ciroro	cororoiro	cirocw	cwbcb
Eskdalemuir	croro	ciro	ciro	cbcb
Point of Ayre	c	cproc	cbcb	cbcw
Tiree	oidoc	c	cbc	bc
Stornoway	crrmo	cpr	cpp	crr
Dalwhinnie	irro	iro		c
Aberdeen	roroc	cbc	bc	croiro
Wick	mdoF	mrFd	porm	rrFd
Lerwick	crriro	ciroc	cirmo	cirrro
Blacksod Point	c	c	c	c
Malin Head	cproqpc	c	bcccbc	cvc
Aldergrove	c	cbc	bcwboc	proirmc
Birr Castle	c	cproc	cir	cir
Valentia Obsy. †	ciroprcbcc	cidiroc	idoirc	iroPRkqc
Roches Point	pro	prc	irc	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/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.*

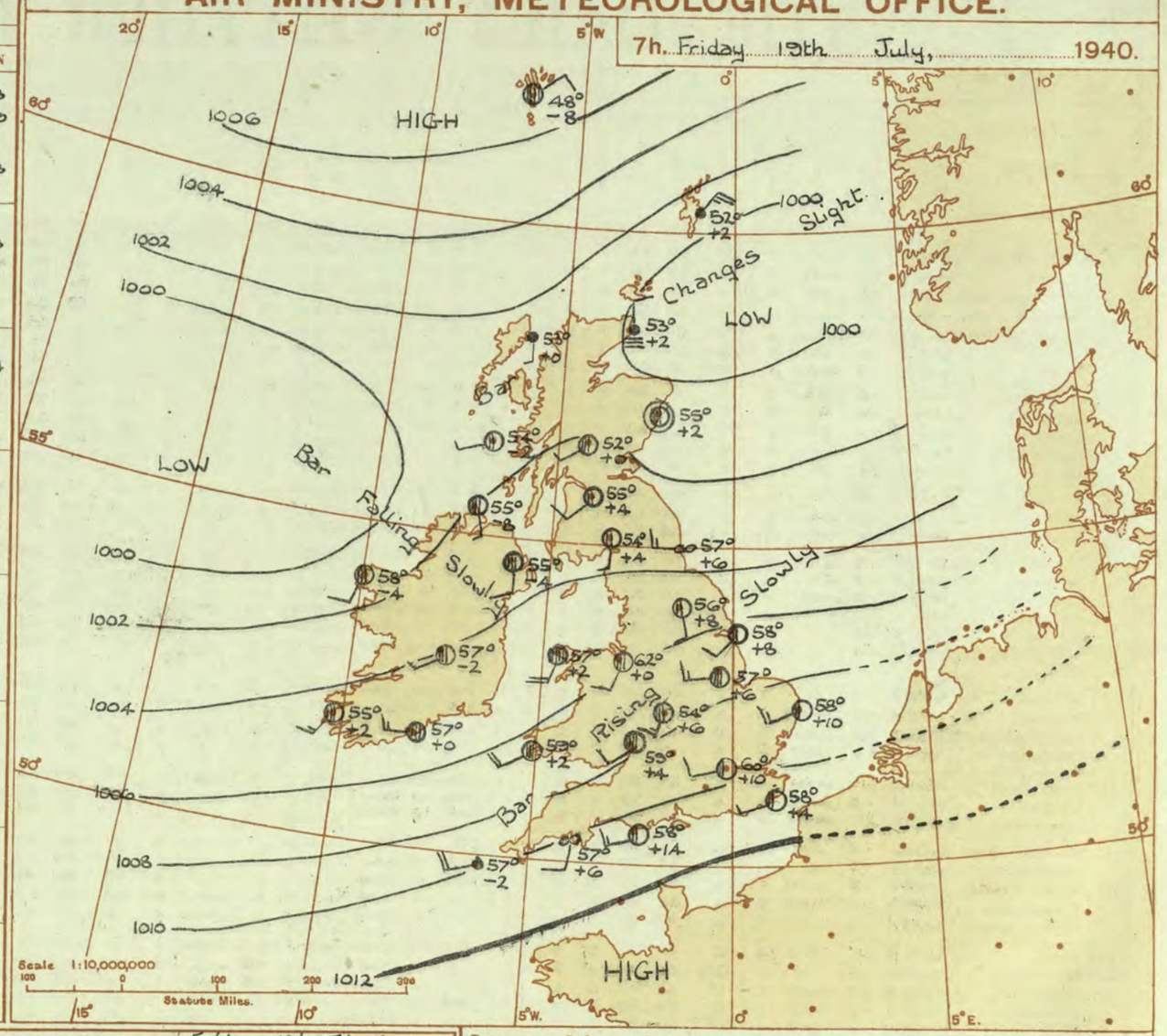
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 19th July, 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 18th July			18h. G.M.T.			01h. G.M.T. 19th July			07h. G.M.T.		
IIIC	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	5-	51528	04568	5-	03748	05528	5-	62528	04568	5-	62418	04368
115	--	67109	04489	--	67109	06369	--	67109	06469	--	67109	06469
203												
206	52	61746	02268	62	64646	26168	51	61746	28168	52	02956	00068
210	6-	62428	30368	5-	52428	26258	5-	52408	27168			
220	52	63755	27268	52	02848	28228				53	02844	21215
230	87	02947	26327	57	02845	24327	5-	02848	00028	52	01355	20258
245	81	02946	32468				5-	02867	22127	5-	53847	22257
260	62	56424	00068	62	02744	22128	52	62535	23368	50	01754	54414
277	67	02736	27667	55	02865	28426	04	00890	29202	57	22955	10267
279												
285	6-	61638	26528	6-	61638	24668				20	01634	26424
288	62	61646	26368	62	21746	23368	52	61746	22368	54	00862	18413
273	18	01761	28402							36	10653	16155
301	--	25745	58488	--	02754	24425	86	01864	24134	83	02755	23316
321	62	62645	24468	57	62653	26367	00	05590	21362	03	05690	18125
299	6-	02638	24568	52	02745	24528				8-	05546	23416
292	52	61845	24468	52	62644	56468	57	05645	23166	5-	01755	22215
310	--	02635	24525	--	01634	24414					03628	20448
316	73	01744	22466	20	01654	24325	03	01690	00014	58	02665	20317
333	74	02565	28326	67	22954	20367				53	02724	21466
334	--	02855	61515	--	02845	22426					65547	22368
340	10	02055	56416	8-	02957	22317	5-	02966	18366	87	25955	17386
136	87	02855	22567	87	02852	24526	5-	02746	20326	53	02741	19127
336	--	02854	28426	--	02853	24516					02854	20416
350	73	02865	24466	83	81855	24286				14	01731	18203
368	17	02845	23426	13	01854	24425	76	01856	22215	74	02856	22327
379	87	81746	24528	87	02745	22427	50	05652	24212	13	05642	20214
390	37	02744	53464	87	02744	22325	5-	05670	19326	53	05643	20225
382	87	02855	24427	83	02854	22426	03	02790	00015	70	01862	20214
438	86	01744	24615							57	01754	24214
430	97	82645	57433	57	02854	55527	83	02755	24126	83	01654	22215
409	83	02844	22525	54	02846	24117	5-	02857	16117			

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 19th July 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Light or moderate southwesterly wind; occasional local rain or showers with local thunderstorms; a few bright intervals; temperature about average.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light southwesterly or variable wind; mainly cloudy, occasional local rain or thundery showers; average temperature.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Light or moderate variable wind; dull, occasional rain; cool
15 N. E. Scotland 16 Orkneys and Shetlands	Moderate or fresh northeasterly wind; decreasing; intermittent rain; fog patches; cool.
17 N. W. Ireland 18 N. E. Ireland	Light southwesterly or variable wind; cloudy; occasional rain; rather cool.
19 S. E. Ireland 20 S. W. Ireland	Light or moderate southwesterly wind; cloudy, occasional rain or showers; rather cool.

GENERAL INFERENCE.

A depression off northeast Scotland is moving slowly northwest, and another off northwest Ireland is moving slowly southeast. In England, Wales, Ireland and south Scotland there will be occasional local rain and showers with local thunder, but a few bright intervals in most areas. In north Scotland weather will be dull and rainy.

FURTHER OUTLOOK.

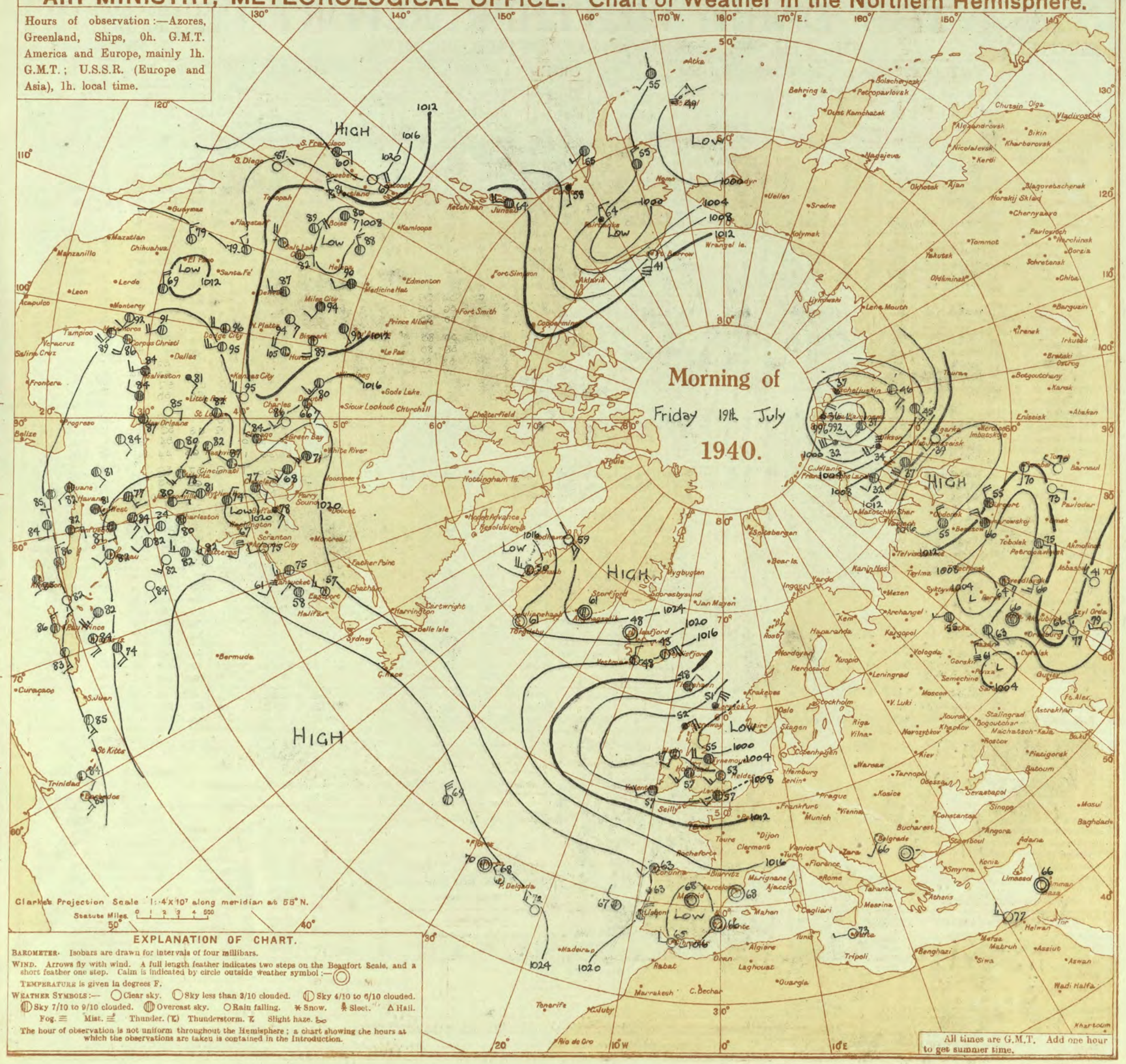
Occasional rain or showers and bright intervals.

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.
C 64/3902 m 8049 & 3705 G 348 (3903 & 40)

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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 19th July 1940.

No. 28729

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

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	1009.3	+2	SW	2	c	57	92	7	5	-	-	9	9	1500
	S. Farnborough	226	1009.3	0	SW'S	1	c	57	85	7	5	-	-	9+	9+	1500
	Boscombe Down	417	1009.2	0	S'E	3	z	55	97	6	5	-	-	9	9	2500
	Calshot (Sthmtn.)	8	1009.6	+2	NW	1	c	59	92	7	8	3	-	4-6	7-8	1500
	Lympne	346	1011.1	+2	SW	2	bc	54	92	8	5	4	-	1	2-3	800
	Manston	154	1010.0	+2	SSW	3	bc	56	92	8	8	3	-	2.3	4.6	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1008.8	+6	WSW	4	c	59	85	7	5	3	-	1	7-8	4000
	Gorleston	5	1007.6	+10	SW	3	c	57	85	7	5	3	-	4-6	9+	2500
	Mildenhall	19	1008.0	+8	SW'S	3	bc	56	92	7	8	3	-	Tr	4-6	4000
	Cranwell	240	1007.2	+6	WSW	2	c	52	92	7	5	4	-	9	9+	5700
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1008.3	+4	SW	2	c	53	92	7	5	4	-	7-8	7-8	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1008.4	0	W	4	c	59	85	8	8	2	-	7-8	9+	2500
	Bristol	209	1008.6	-2	SSW	1	bc	54	92	8	2	4	-	1	2-3	2500
	Portland Bill	32	1009.8	0	SW	3	c	58	92	8	5	4	-	9	10	4000
	Plymouth	82	1010.0	+2	WNW	1	z	59	97	6	5	3	-	4-6	7-8	1500
	The Lizard	240	1010.2	+4	-	0	bc	58	97	8	7	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163														
	Guernsey	175														
6	Pembroke	142	1007.9	+2	W	3	c	58	97	8	2	6	-	2-3	7-8	2500
7	Holyhead	26	1005.0	-2	SW'S	3	c/pr	57	85	6	5	3	-	4-6	9+	1500
	Chester (Sealand)	16	1006.0	-2	WSW	1	b	56	85	7	-	4	-	0	1	-
8	Manchester	70	1005.9	+2	SSE	1	z	49	97	5	-	4	-	0	2-3	-
10	Spurn Head	29	1005.6	+4	SW'S	3	bc	53	92	6	5	4	1	2-3	4-6	1500
	Catterick	175	1004.0	+2	WSW	2	c	55	85	7	5	4	-	9	9+	2500
	Tynemouth	108	1002.6	+4	W	4	c	55	92	7	6	-	-	9+	9+	1500
11	St. Abbs Head	280	1001.3	0	NW	2	pr	52	97	4	5	2	-	7-8	10	800
	Leuchars	36	1001.3	+2	-	0	pr	54	97	5	5	-	-	10	10	800
12	Renfrew (Abbots I.)	19	1003.1	+2	W	2	c	53	85	8	5	3	-	4-6	9+	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1004.8	0	NNW	1	b	49	97	8	-	4	-	0	Tr	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1003.0	-4	ENE	4	pr	52	97	6	5	2	-	9+	10	800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1001.0	-4	NNE	2	r°r°	58	97	5	5	2	-	7-8	10	450
16	Lerwick	156	1002.4	-6	NE	6	ir	51	97	6	6	2	-	4-6	10	800
17	Blacksod Point	18	1003.5	-8	-	0	c	57	97	7	5	-	-	9	9	1500
18	Malin Head	84	1004.1	-4	SSW	2	bc	47	85	8	5	-	-	2-3	2-3	5700
	Aldergrove	268	1004.5	-2	-	0	c	49	92	8	-	3	-	0	9	-
19	Birr Castle	173	1005.5	-4	WSW	1	c/r	57	92	7	6	1	-	7-8	10	1500
20	Valentia Obsy.	30	1006.1	-4	SW	2	c	57	97	8	6	-	-	10	10	800
	Roches Point	22	1006.6	-6	WS	2	c	58	92	8	5	-	-	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 19th July — 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 18th Hrs. (36)
London (Kew)	1010.1	+10	W	2	bc	60	85	8	8	-	4	4-6	4-6	2500	1	*	63	54	52	4	-	2.7
Croydon	1009.9	+10	WSW	2	bc	60	85	8	7	-	2	4-6	4-6	4000	0	*	64	54	49	6	-	2.3
S. Farnborough	1010.2	+10	W'S	2	c	59	92	9	8	4	6	4-6	7-8	2500	1	*	63	53	48	3	Tr	2.1
Boscombe Down	1010.0	+8	SW'W	3	bc	59	85	8	5	3	4	2-3	4-6	2500	0	*	62	54	52	1	Tr	0.9
Calshot (Sthmtn.)	1010.2	+8	W	2	c	60	85	7	8	7	-	7-8	9	4000	1	0	64	56	55	8	Tr	2.1
Lympne	1011.2	+4	SW'W	1	bc	58	92	8	2	3	1	2-3	4-6	800	1	§2	62	54	51	1	-	3.9
Manston	1010.3	+6	SW	3	c	61	85	8	8	3	-	2-3	7-8	2500	0	*	65	54	51	1	-	5.5
Shoeburyness	1010.5	+10	SW'S	3	bc	62	85	8	2	3	1	1	4-6	2500	1	*	67	56	49	3	-	2.6
Felixstowe	1010.2	+14	SW'W	3	bc	59	85	7	5	4	1	1	2-3	5700	1	2	67	57	54	6	-	2.7
Gorleston	1009.0	+10	SW'W	3	bc	58	85	7	-	3	-	0	2-3		1	2	66	54	52	1	1	3.9
Mildenhall	1008.7	+6	SW'S	3	c	58	97	8	5	-	-	7-8	7-8	5700	1	*	67	53	46	4	Tr	4.1
Cranwell	1007.5	+6	WS	3	c	57	85	7	5	3	-	7-8	9+	2500	1	*	66	50	47	3	Tr	2.7
Birmingham	1008.1	+6	SSW	3	c	54	92	6	5	7	-	4-6	9	2500	1	*	65	52	47	Tr	-	6.8
Upper Heyford	1008.6	+6	SW	3	bc	56	92	7	5	3	2	1	4-6	2500	1	*	66	49	48	Tr	Tr	*
Ross-on-Wye	1008.5	+4	SW	2	c	59	85	7	5	9	1	2-3	7-8	2500	0	*	64	55	48	Tr	-	2.4
Hartland Point	1008.3	-2	WSW	4	c	59	85	8	8	6	-	4-6	9	2500	0	3	62	57	53	0.6	-	4.3
Bristol	1009.5	+10	SSW	2	bc	58	85	8	8	6	2	2-3	4-6	2500	1	*	66	51	42	3	-	7.1
Portland Bill	1011.7	+14	WSW	3	bc	58	85	8	1	4	-	2-3	4-6	4000	1	3	60	56	*	-	-	*
Plymouth	1010.5	+6	S'W	2	z	57	97	6	5	3	-	7-8	9+	220	1	1	61	53	46	06	0.1	2.1
The Lizard	1010.7	+6	SW	3	c	57	92	8	8	6	-	7-8	7-8	2500	0	2	60	52	*	8	-	2.1
Scilly (St. Mary's)	1009.5	-2	WSW	4	ir	57	92	7	9	2	-	7-8	10	1500	1	2	65	55	*	-	0.3	8.2
Guernsey																						
Pembroke	1006.8	+2	SW	4	c/pr	59	97	8	8	-	-	9+	9+	800	1	3		57	*	Tr	Tr	5.9
Holyhead	1004.9	+2	SSW	4	c/r	57	97	6	5	-	-	10	10	450	1	2	63	56	53	-	0.2	11.7
Chester (Sealand)	1005.6	0	SSW	2	c	62	75	8	7	3	-	4-6	7-8	1500	0	*	63	54	45	-	-	10.8
Manchester	1006.1	+4	S'W	2	z	57	92	5	5	3	-	4-6	7-8	5700	1	*	63	44	37	Tr	Tr	2.5
Spurn Head	1006.9	+8	SW'S	2	bc	58	85	6	7	-	-	4-6	4-6	5700	1	2	57	52	*	4	0.3	0.0
Catterick	1005.1	+8	S'E	1	bc	56	85	7	5	3	-	2-3	4-6	2500	1	*	60	53	50	0.1	0.2	0.0
Tynemouth	1003.8	+6	W	3	z	57	75	6	8	3	-	2-3	4-6	2500	1	1	59	47	49	1	0.3	*
St. Abbs Head	1002.1	+12	W	3	c	54	85	9	5	7	3	4-6	7-8	1500	1	2	55	52	*	2	10	*
Leuchars	1001.6	+6	SW	2	c	54	85	8	5	7	-	4-6	7-8	4000	2	*	59	52	53	6	6	0.0
Renfrew (Abbots I.)	1003.2	+4	SW	2	bc	55	75	8	8	4	1	2-3	2-3	2500	1	*	62	51	48	0.6	Tr	0.1
Eskdalemuir	1003.3	+4	S	1	bc	54	85	8	5	7	-	1	2-3	2500	1	*	56	47	43	2	0.3	0.0
Point of Ayre	1003.9	-4	WSW	3	bc	57	97	8	4	4	-	4-6	4-6	2500	0	1	60	45	*	Tr	-	1.1
Tiree	1001.7	-2	WSW	1	bc	54	92	8	7	-	-	4-6	4-6	2500	0	2	57	49	*	2	-	0.0
Stornoway	1001.1	0	S	1	r°r°	58	97	7	5	2	-	9+	10	800	1	1	54	52	*	2	3	0.0
Dalwhinnie	1002.1	0	SW	1	c	52	85	7	4	2	-	7-8	9+	800	1	*	54	49	49	2	1	5.0
Aberdeen	1000.9	+2	-	0	c/r	55	97	6	6	2	-	9+-	10	1500	1	1	62	51	47	0.2	1	0.7
Wick	999.9	+2	N	2	dF	53	97	1	-	-	-	10	10	<150	1	2	54	52	*	12	8	*
Lerwick	1001.3	+2	NE	5	r°r°	52	97	6	6	2	-	4-6	10	450	1	*	54	50	*	1	7	0.0
Blacksod Point	1001.8	-4	SSW	2	c	58	92	7	-	5	1	2-3	7-8	800	1	2	62	55	*	-	0.1	*
Malin Head	1002.1	-8	S'E	1	c	55	85	8	4	6	2	4-6	7-8	5700	0	1	59	44	*	Tr	-	5.9
Aldergrove	1002.8	-4	S	2	c/r	55	97	8	5	2	-	9+	10	1500	1	*	65	46	41	-	1	5.1
Birr Castle	1004.1	-2	SW	1	c/r	57	92	7	6	1	-	7-8	10	1500	1	*	67	55	54	0.4	6	5.3
Valentia Obsy.	1005.5	+2	SW'S	3	c/pr	55	97	8	8	-	-	9+	9+	2500	1	3	63	55	52	1	2	2.0
Roches Point	1005.2	0	W	3	c	57	92	8	5	3	-	4-6	7-8	1500	1	2	64	58	*	6	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.	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°rcirp	cpr°c	cbc	63	54	52	4	-	2.7	*	*	8
Croydon	217	cr°r°pr°	cpr	bcc	64	54	49	6	-	2.3	*	*	8
Greenwich (Royal Observatory)	149	cipR	crc	cbc	66	55	49	3	-	3.3	74	68	
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	65	56	53	3		3.0	82	79	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	68	56	53	6	-	3.7	73	69	*
Camden Square	110	cr	bc	*	66	56	51	9	-	*	*	69	*
Kensington	80	dacpbc	bc	*	66	56	51	3	Tr		70	73	*
Hampstead Observatory	450										*		*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 19th

South Kensington.			
Max.	Time.	Min.	Time.

Kew Observatory.			
Max.	Time.	Min.	Time.
0.1	7-9h. 18th.	<0.1	Rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 18th July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 19th July 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

Saturday 20th July, 1940.

No. 28730

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

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)	1010.9	+2	SW	4	c	66	65	8	8	-	-	7-8	7-8	2500
	Croydon	1010.7	+2	SW	3	bc	69	65	8	2	-	3	4-6	4-6	4000
	S. Farnborough	1011.1	+6	SSW	4	c	60	65	9	8	4	1	4-6	7-8	4000
	Boscombe Down	1010.9	+2	SW'S	4	c	64	65	9	8	-	8	7-8	9	2500
	Calshot (Soton.)	1012.2	+10	SW'W	4	bc	66	75	8	1	7	-	1	2-3	2500
	Lympne	1012.5	+8	SSW	4	bc	68	65	8	2	-	2	4-6	4-6	1500
	Manston	1011.3	+2	W'S	1	c/pr	67	75	9	2	4	1	9	9	2500
2	Shoeburyness	1010.9	-2	SW'S	3	bc	73	65	8	8	3	3	4-6	4-6	2500
	Felixstowe	1010.6	+2	S	4	bc	69	75	8	2	6	4	1	4-6	4000
	Gorleston	1010.3	+6	S'W	5	c	68	55	7	8	-	-	7-8	7-8	2500
	Mildenhall	1009.5	+2	SW'W	4	c	70	55	8	8	6	3	4-6	7-8	4000
	Cranwell	1007.9	-2	SSW	3	c	68	55	7	2	3	-	9	9+	2500
3	Birmingham	1008.8	+2	SSW	3	c	63	65	8	8	7	-	4-6	9	2500
	Upper Heyford	1009.4	0	WSW	4	c	62	55	9	8	6	3	4-6	9+	2500
4	Ross-on-Wye	1008.9	0	SW'S	5	c	64	75	8	9	-	-	7-8	7-8	2500
5	Hartland Point	1008.9	+4	WSW	5	c/pr	61	92	7	9	6	-	7-8	9+	2500
	Bristol	1010.4	+4	SSW	3	c/pr	60	85	7	8	-	-	10	10	1500
	Portland Bill	1012.1	0	SW	4	c	59	85	8	2	4	-	7-8	10	4000
	Plymouth	1011.3	+2	S'W	4	c	62	85	6	5	3	-	7-8	9+	800
	The Lizard	1011.9	+10	SW	4	PR	60	92	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	1010.5	+4	SW'S	5	iro	61	85	7	8	7	-	7-8	10	800
	Guernsey														
6	Pembroke	1007.8	+2	SW	4	bc	62	92	8	2	6	-	2-3	4-6	2500
7	Holyhead	1004.6	-2	SW'S	5	bc	62	75	8	8	4	-	1	2-3	2500
	Chester (Sealand)	1006.2	-2	SW	3	pr	66	65	8	8	-	-	7-8	7-8	1500
8	Manchester	1006.7	+2	SW'S	3	pr	62	85	7	8	7	-	7-8	9+	2500
10	Spurn Head	1007.5	0	SW'S	3	c	68	63	6	9	-	-	7-8	7-8	2500
	Catterick	1005.7	+6	WSW	2	pr	60	85	7	3	-	-	9+	9+	1500
	Tynemouth	1004.3	+2	SW	3	c/pr	65	75	6	8	-	-	9	9	2500
11	St. Abbs Head	1003.1	+6	NE	1	c	58	75	8	8	6	-	4-6	7-8	1500
	Leuchars	1001.7	-2	WSW	4	bc	65	55	8	2	4	3	2-3	4-6	4000
12	Renfrew (Abbots I.)	1002.5	-6	W'S	2	c	63	75	8	8	-	-	9+	9+	2500
	Eskdalemuir	1002.9	-2	SSW	4	c/pr	60	75	7	9	-	-	9+	9+	1500
	Point of Ayre	1003.3	-2	WSW	4	bc	68	75	8	2	4	5	4-6	4-6	2500
13A	Tiree	1001.4	0	SSE	2	c	60	65	8	7	3	-	4-6	7-8	4000
13B	Stornoway	1001.3	+2	S	3	c	59	85	8	5	7	-	Tr	10	1500
15	Dalwhinnie	1001.6	0	SW	1	c	62	65	8	1	-	4	4-6	7-8	1500
	Aberdeen	1002.1	+6	S	1	c/r	58	85	7	6	2	-	7-8	9+	1500
	Wick	1000.7	+8	SSW	2	c/d	55	92	7	8	2	-	7-8	10	800
16	Lerwick	1001.9	+4	NE'E	4	c	55	92	7	5	7	-	7-8	9	800
17	Blacksod Point	1002.4	+8	SW	3	c	61	75	8	8	-	-	9	9	2500
18	Malin Head	1001.3	-6	SSE	1	pr	56	92	7	6	-	-	9	9	4000
	Aldergrove	1001.5	-10	SW	4	pr	64	65	8	8	7	-	4-6	9+	1500
19	Birr Castle	1004.0	+2	WSW	3	c/pr	60	65	7	8	1	-	7-8	9	2500
20	Valentia Obsy. †	1006.0	+6	WSW	5	bc	62	75	9	8	5	-	4-6	4-6	2500
	Roches Point	1006.0	0	WSW	3	pr	58	85	8	8	1	-	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 19th July

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)	1011.5	+4	SW	4	c/pr	63	65	8	9	3	-	7-8	9	2500	1	*
Croydon	1011.6	+6	SW	4	c	63	75	8	2	3	-	4-6	9	2500	1	*
S. Farnborough	1011.8	+4	SSW	5	c	63	75	9	8	3	-	7-8	9	2500	0	*
Boscombe Down	1011.2	+2	SW'S	4	c	61	75	8	8	3	-	4-6	7-8	2500	0	*
Calshot (Soton.)	1012.5	-2	WSW	5	c	63	85	8	1	3	-	2-3	9	2500	1	3
Lympne	1013.7	+4	WSW	4	bc	63	65	9	1	3	-	Tr	4-6	1500	0	§3
Manston	1012.1	+6	WSW	5	c	65	65	9	1	3	1	1	7-8	2500	0	*
Shoeburyness	1011.6	+8	SW'S	3	bc	66	65	8	1	7	1	2-3	4-6	4000	0	*
Felixstowe	1010.6	+2	SW'W	5	bc	69	65	8	8	6	9	1	2-3	4000	1	3
Gorleston	1009.8	-6	S'W	4	c	66	75	7	-	6	-	0	7-8	-	0	3
Mildenhall	1009.1	-2	SW'W	4	c	68	65	8	8	6	-	7-8	7-8	2500	0	*
Cranwell	1007.8	-2	SW	4	c	66	63	7	8	-	-	9	9	2500	0	*
Birmingham	1008.6	0	SW	3	ir	61	75	8	8	2	-	2-3	9+	7200	1	*
Upper Heyford	1010.0	+4	SW	3	PR	60	85	4	8	-	-	10	10	800	1	*
Ross-on-Wye	1009.4	0	SW'S	3	roro	59	92	7	6	1	-	9+	10	1500	1	*
Hartland Point	1006.8	-12	WSW	5	rr	59	97	7	5	2	-	7-8	9+	1500	1	3
Bristol	1010.1	-2	SSW	3	pr	62	85	7	8	6	-	9	9+	1500	1	*
Portland Bill	1012.0	+2	SW	4	c	60	85	8	5	2	-	7-8	10	2500	1	4
Plymouth	1010.6	-10	SSW	4	c/d	59	92	6	5	2	-	9+	10	450	1	3
The Lizard	1010.9	-4	SW	5	c	60	92	8	8	6	-	7-8	7-8	2500	0	4
Scilly (St. Mary's)	1010.0	+2	SW'W	4	c	61	85	7	8	7	9	4-6	9	800	1	3
Guernsey																
Pembroke	1007.7	-2	W'S	4	c	57	97	8	8	6	-	7-8	9+	1500	1	2
Holyhead	1005.2	0	SW'S	4	c	59	85	8	9	3	2	4-6	7-8	800	1	3
Chester (Sealand)	1006.4	+2	SW	4	pr	61	85	8	8	-	-	10	10	1500	1	*
Manchester	1006.5	+2	SSW	5	PR	62	75	8	9	3	-	7-8	9+	1500	1	*
Spurn Head	1007.1	0	SW'S	2	psh	60	92	6	8	-	-	9	9	1500	1	2
Catterick	1005.2	+2	W'S	3	c/pr	62	75	8	9	6	-	7-8	9	2500	1	
Tynemouth	1003.7	-6	SW	4	c	64	75	7	2	4	-	4-6	7-8	2500	1	2
St. Abbs Head	1001.7	-12	SW	4	c	62	65	8	3	6	3	4-6	7-8	1500	1	3
Leuchars	1001.1	-6	SW	2	roro	59	92	7	5	2	-	7-8	10	1500	1	*
Renfrew (Abbots I.)	1001.6	-2	SW	3	c	60	75	8	4	7	-	4-6	9+	4000	1	*
Eskdalemuir	1002.7	+2	SSW	4	PR	57	92	6	9	-	-	9+	9+	800	1	*
Point of Ayre	1003.6	0	WSW	4	c	58	92	8	8	4	-	7-8	9	2500	1	2
Tiree	1000.0	-6	SW'S	3	dd	56	97	7	-	2	-	10	10	1500	1	3
Stornoway	1001.0	-6	-	0	pr	55	97	7	6	7	-	7-8	9+	1500	1	0
Dalwhinnie	1000.7	-10	S	3	r	56	85	7	5	-	-	9+	9+	1500	1	*
Aberdeen	1001.0	-6	S	2	c/pr	59	85	6	8	3	4	7-8	9	1500	1	1
Wick	1001.0	+2	NE	2	dodo	55	85	7	8	7	8	7-8	9+	800	1	1
Lerwick	1001.7	-2	NE'E	2	o	54	97	5	5	-	-	10	10	220	1	*
Blacksod Point	1002.4	-2	SW	2	bc	59	75	8	2	-	-	2-3	2-3	1500	0	2
Malin Head	1001.5	0	SW	3	c/pr	57	85	8	8	-	-	7-8	7-8	5700	0	2
Aldergrove	1002.6	+8	W	3	pr	56	75	9	9	-	-	9+	9+	2500	1	*
Birr Castle	1004.6	+2	WSW	3	c	62	65	8	2	-	-	7-8	7-8	1500	1	*
Valentia Obsy. †	1006.2	0	WSW	4	c	59	75	9	2	3	-	4-6	7-8	2500	0	3
Roches Point	1006.2	+2	SW	3	c	61	75	9	3	5	5	2-3	7-8	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 19th (37)	Weather 13h.—18h. 19th (38)	Weather 18h. 19th to 1h. 20th (39)	Weather 1h.—7h. 20th (40)
London (Kew)	bcwcbc	bccproc	c	cproc
Croydon	bc	bc	cbcc	cproc
S. Farnborough	cv	cv	bcvc	cdop
Boscombe Down	c	cpr	cmo	cpro
Calshot (Soton.)	cbcb	bbcc	caidoc	iroirmoc
Lympne	bccproc	bc	bccbc	c
Manston	cproc	cbbc	ebcc	c
Shoeburyness	bccbcy	bcybc	bcc	c
Felixstowe	bc	bcbcv	bcvc	c
Gorleston	bcy	cybcc	c	c
Mildenhall	bcccy	cybcyc	bc	cproc
Cranwell	cy	cyprcy	ppppiroc	cirorrcmo
Birmingham	c	cpr	ciro	oRirc
Upper Heyford	bcc	cPRcPR	cprcipmo	cmiroiRop
Ross-on-Wye	cbcPc	pbcpcro	rrRc	cRbcc
Hartland Point	cp	cprr	rpppe	crrbc
Bristol	bccPR	cPRPR	cprcRro	cir prob c
Portland Bill	bcc	c	c	bPR
Plymouth	cmororoc	cidcmoc	irocmo	rrcmob
The Lizard	prcpr	c	c	bc
Scilly (St. Mary's)	ciro	crorc	cppcr	cbc
Guernsey				
Pembroke	cbc	bcqrrcpr	Rrc	cq
Holyhead	cmobcb	bprbc	bcc	cwbc
Chester (Sealand)	cprpro	cpropr	cprc	cprmobc
Manchester	proPRq	cproPRkq	rororrmo	cmwbcm
Spurn Head	bcc	pshc	iR	R oro
Catterick	ccpr	cproc	cproc	cprobc
Tynemouth	bccp	cpc	cbc	bccp
St. Abbs Head	bcc	tprc	cbc	bcc
Leuchars	cbc	bccprcro	piromobc	bcmobc
Renfrew (Abbots I.)	bcwc	c	cRqkcip	cbcfgw
Eskdalemuir	bccpro	cproPR	pRip	ofebc
Point of Ayre	cbc	prc	bcc	bc
Tiree	bcc	odrdr	odrc	c
Stornoway	crorOpro	cpr	cpp	cpro
Dalwhinnie	c	cbc		cir
Aberdeen	cdoro	bcproc	cproc	cbc
Wick	fmdoc	prodo	bbccw	roRc
Lerwick	croro	como	oipFFc	cifmo
Blacksod Point	c	bc	pro	PR
Malin Head	ecproc	c	cproccbc	bc
Aldergrove	ciroPR	ctPRqm	cprobwc	cbc
Birr Castle	cpro	c	bc	cpr
Valentia Obsy. †	cprprobc	bccprobc	bccqPRpro	cirqPRbc
Roches Point	propr	c	bc	iroirbc

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.*

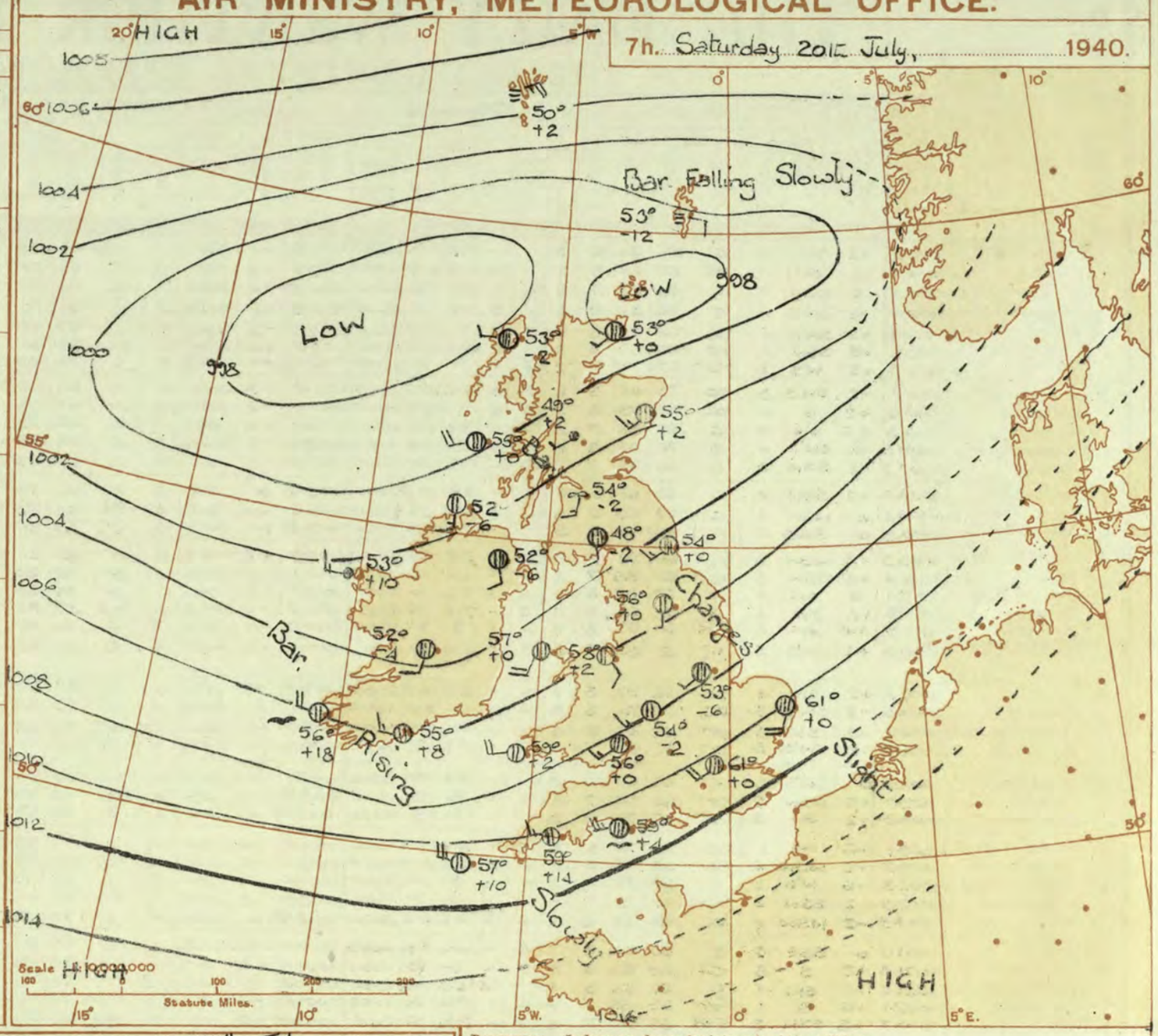
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 19th. July						18h. G.M.T.			01h. G.M.T. 20th. July			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
106	5-	51628	16258	82	03834	24158	57	01624	10114	5-	22528	06365
115	--	67309	08369	87	02934	23266	87	02943	16225	52	60725	20368
203												
206	87	02965	04158	8-	01962	09323	52	62645	00088			
210	67	02854	30127	85	01853	04116	6-	62648	00068	52	62846	20323
220	73	01854	22314	52	02865	17128				87	51846	02282
230	83	02955	20326	52	22737	18368	87	81745	20288	5-	02847	20327
245	36	01954	21454	86	81765	20317	50	00752	20382	01	01842	20414
260	87	25865	24186	84	64757	20187	53	01862	20306	83	02761	23215
277	86	22845	18467	86	25847	18488	70	01852	15205	24	02842	18325
279												
285	3-	25737	24587	3-	02737	26587				06	81746	24487
288	87	25854	19385	37	25855	18486	87	01852	17384	84	01754	17425
273	37	10764	16285							46	51544	14258
301	--	25854	85486	--	25853	55487				--	01843	20414
321	37	05654	21367	87	93655	25386				53	05663	19313
299	37	29644	16295	83	22645	16335	6-	62547	20367	57	05644	20385
292	9-	95687	22297	96	82646	51497	8-	05646	18226	83	01754	20254
310	--	28628	20428	--	82528	20488				--	02626	20426
316	87	81744	22427	87	25646	18497	5-	05638	20368	50	22454	20164
338	27	01854	22614	63	02724	20466				33	02853	20315
334	--	02756	18516	--	60744	20588				--	02746	22427
340	80	01854	18585	87	25954	23488				8-	81046	17386
136	53	02864	19486	83	28754	20395				55	02734	18465
336	--	81743	20488	--	22755	20516				--	02853	20415
350	83	25846	18387	83	02855	18426						
368	27	02856	20387							84	22844	22464
370	26	02756	20418	62	64635	22468	5-	05648	18328	5-	22754	22364
390	2-	02855	23325	86	02846	21417				53	02744	20325
382	27	02854	18426	96	02854	19427	53	02855	18326	57	02935	18485
438	56	01854	23414							32	03644	23528
430	13	01854	20415	83	02845	53516						
409	53	22845	18586	52	02737	16588	5-	61638	18488	84	01854	20564

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 20th July, 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. 20th July 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Moderate southwest to west wind, fresh locally; occasional rain and rather squally showers with thunder locally; some bright intervals; cool.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate southwesterly wind; occasional rain or showers with thunder locally; some bright intervals; cool.
13 A. W. Scotld. / B.N.W. Scotland.	Light or moderate southwesterly wind; mainly cloudy; intermittent rain or showers; cool.
14 Mid Scotland 15 N. E. Scotland	
16 Orkneys and Shetlands	Light or moderate easterly or variable wind; dull, occasional rain; fog at times; rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	as 1-7.

GENERAL INFERENCE.

Depressions off northeast and west Scotland are almost stationary, and associated troughs of low pressure are moving eastwards across the British Isles. Occasional rain and rather squally showers with thunder locally, will occur in most areas, but there will be some bright periods.

FURTHER OUTLOOK.

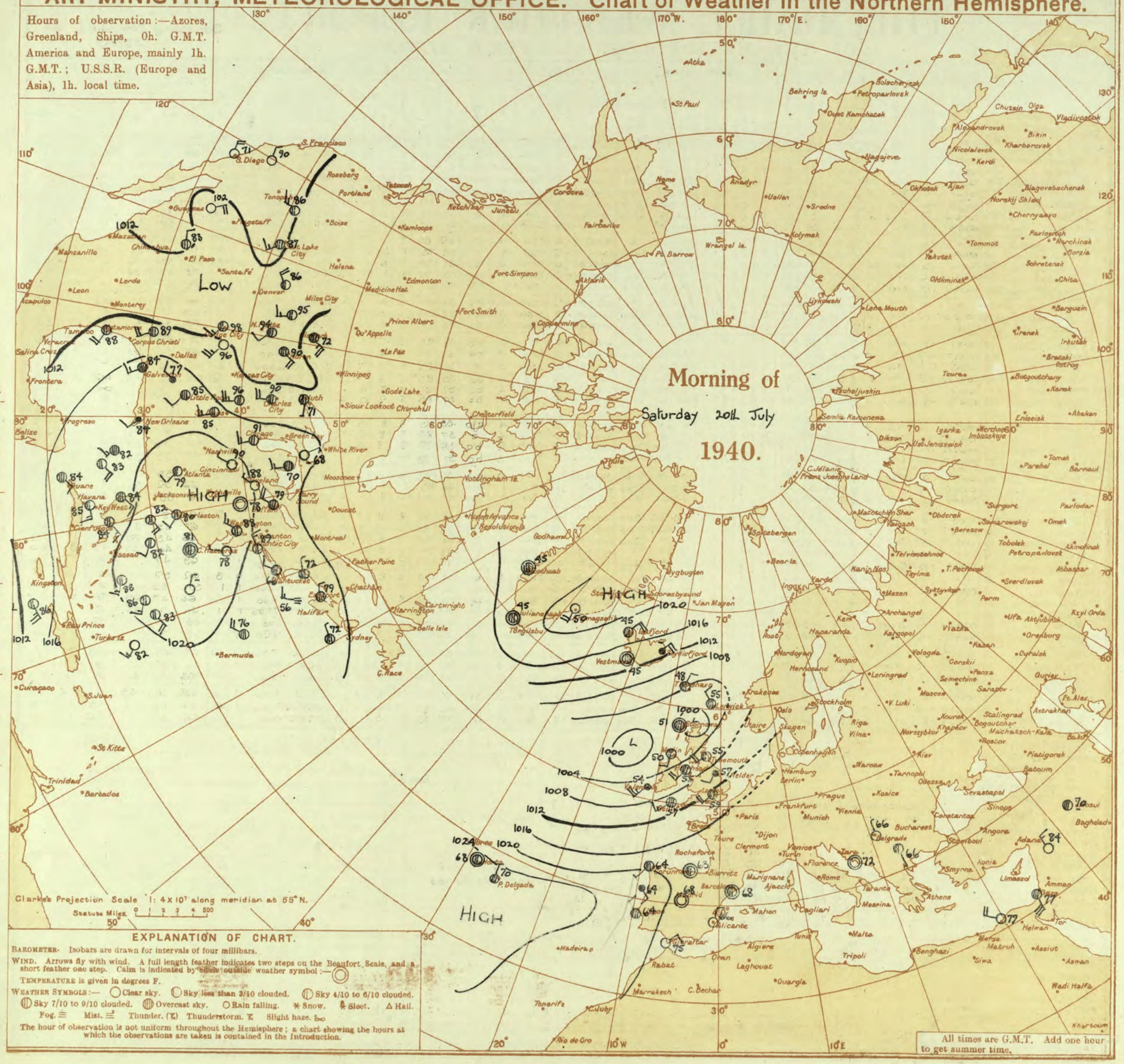
Occasional showers and bright intervals.

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.
C.64/3900 m. 5045. O. 3705. G. 348. 5/40 8/40

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 20th July 1940.

No. 28730.

OBSERVATIONS at 1 hr. G.M.T. 20th July

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1012.0	-2	SW	4	c	59	85	7	6	-	-	9	9	1500
	S. Farnborough	226	1011.8	-2	SSW	4	c	58	85	8	5	3	-	7-8	9+	1500
	Boscombe Down	417	1011.0	-8	SSW	4	z_0	58	92	6	5	7	-	4-6	7-8	1500
	Calshot (Sthmtn.)	8	1012.3	-4	SW	5	c	61	92	7	5	-	-	9+	9+	2500
	Lympne ...	346	1014.4	-2	SW'S	3	c	57	92	8	5	7	-	4-6	9+	2500
	Manston ...	154	1013.4	-2	SWW	3	c	58	85	8	-	3	-	0	7-8	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1011.8	-4	SW	4	c	62	85	8	5	7	-	7-8	10	4000
	Gorleston ...	5	1011.0	0	SSW	4	c	60	85	7	5	3	-	2-3	7-8	2500
	Mildenhall ...	19	1010.0	-6	SW'S	4	c	60	85	8	5	1	2	7-8	10	1500
	Cranwell ...	240	1008.2	-6	SW'S	3	c/p	57	97	7	5	7	8	Tr	9+	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1010.0	-2	SW	3	c/p	57	97	6	5	1	-	4-6	10	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1008.1	-8	WSW	5	c	58	97	8	6	2	-	7-8	9	1500
	Bristol ...	209	1009.7	-2	S	3	c/p	57	92	7	5	7	8	2-3	9+	2500
	Portland Bill ...	32	1011.3	-12	SW	5	c	57	92	8	5	-	-	10	10	2500
	Plymouth ...	82	1010.5	-8	SW	4	z_0	58	97	6	5	-	-	9+	9+	800
	The Lizard ...	240	1010.5	-10	SW	5	c	57	97	8	-	2	-	9	10	1500
	Scilly (St. Mary's)	163	1010.2	-2	WSW	3	c/p	57	97	7	5	7	-	4-6	10	1500
	Guernsey ...	175														
6	Pembroke ...	142	1007.6	-2	WSW	4	p_0p_0	57	92	8	8	-	-	9	9	800
7	Holyhead ...	26	1005.6	0	SW'S	4	c	55	92	8	8	4	-	9	9	2500
	Chester (Sealand)	16	1006.8	-2	SSW	1	c	56	97	7	7	5	-	Tr	7-8	2500
8	Manchester ...	70	1006.5	-2	SW'S	3	z_0	56	85	6	5	3	-	7-8	7-8	4000
10	Spurn Head ...	29	1007.7	0	S'W	2	iR	57	97	5	5	-	-	9+	9+	800
	Catterick ...	175	1006.3	+2	-	0	bc	54	92	8	5	6	-	2-3	4-6	2500
	Tynemouth ...	108	1004.9	+4	SW	4	c	55	85	6	2	3	-	2-3	4-6	2500
11	St. Abbs Head	280	1003.2	+4	SW	4	bc	51	92	8	4	4	5	2-3	2-3	1500
	Leuchars ...	36	1002.2	+6	SW	3	z_0	52	85	6	5	4	-	2-3	2-3	2500
12	Renfrew (Abbots I.)	19	1003.1	*	SW'S	3	c	*	*	7	5	3	-	7-8	9	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1004.9	+10	SWW	2	c	50	97	8	2	4	5	4-6	9	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	999.8	-2	-	0	c	51	97	6	5	7	-	9	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	999.4	-12	ENE	2	pp	53	97	6	5	2	-	7-8	10	800
16	Lerwick ...	156	1002.2	+2	NW	2	c	53	97	7	5	7	-	7-8	9	800
17	Blacksod Point	18	1001.5	-10	SW	3	pp	51	92	7	6	-	-	10	10	450
18	Malin Head ...	84	1002.4	-2	S'W	2	bc	50	85	8	2	3	-	2-3	4-6	5700
	Aldergrove ...	268	1003.7	-2	S'W	1	c	48	85	8	-	-	3	0	7-8	-
19	Birr Castle ...	173	1004.6	-4	S	1	bc	48	92	8	-	4	-	0	2-3	-
20	Valentia Obsy.	30	1004.3	-1.4	SW	5	pp	54	85	8	3	-	-	9+	9+	2500
	Roches Point	22	1003.4	-8	W'S	2	bc	54	92	8	3	-	5	2-3	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 20th July

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1010.4	-2	SW'S	4	c/pp	61	85	8	5	3	-	9	9+	1500	1	*
	Croydon ...	1011.6	0	SW	4	c/pp	61	85	8	6	2	-	9	10	1500	1	*
	S. Farnborough	1010.6	+2	SSW	4	iR	59	85	6	8	3	-	9	10	1500	1	*
	Boscombe Down	1009.9	-4	SSW	4	c	58	92	8	5	3	4	4-6	7-8	2500	1	*
	Calshot (Sthmtn.)	1011.1	-2	SW	6	c/p	60	92	7	9	-	-	9+	9+	800	1	3
	Lympne ...	1013.6	-2	SW	4	c	59	85	8	5	-	-	10	10	800	0	§3
	Manston ...	1012.0	-4	SW'S	5	c	61	85	7	5	7	-	7-8	9+	800	0	*
2	Shoeburyness ...	1011.5	-4	SSW	4	c	62	85	8	5	9	-	4-6	9+	2500	0	*
	Felixstowe ...	1011.1	-2	SSW	5	c	63	75	8	5	3	8	4-6	9+	5700	1	3
	Gorleston ...	1010.3	0	SSW	4	c	61	85	7	8	-	-	9+	9+	2500	0	3
	Mildenhall ...	1008.8	-6	SW'S	4	c	59	92	8	8	7	9	4-6	7-8	2500	1	*
	Cranwell ...	1007.5	-6	SW	1	c/p	53	97	6	5	7	-	7-8	10	1500	1	*
3	Birmingham ...	1007.7	-2	SW	3	bc	54	87	8	5	7	-	4-6	4-6	1500	1	*
	Upper Heyford	1005.0	-2	WSW	3	iR	57	92	6	5	7	-	9	10	800	1	*
4	Ross-on-Wye	1008.4	0	SW	3	c	56	92	8	8	-	-	7-8	7-8	2500	1	*
5	Hartland Point	1008.8	+8	W	5	bc	58	85	8	2	6	-	2-3	4-6	2500	1	3
	Bristol ...	1009.6	+6	SSW	3	pp	59	92	6	6	-	-	9+	9+	800	1	*
	Portland Bill ...	1011.0	+4	WSW	5	c	59	92	8	5	7	-	7-8	10	4000	1	4
	Plymouth ...	1011.1	+14	W'S	3	bc	59	85	7	8	-	-	1	2-3	1500	1	2
	The Lizard ...	1011.8	+8	W'S	4	bc	57	85	8	8	6	-	4-6	4-6	2500	1	3
	Scilly (St. Mary's)	1011.0	+10	W'S	5	bc	57	85	8	2	6	4	1	2-3	2500	1	2
	Guernsey ...																
6	Pembroke ...	1007.4	+2	W'S	4	c/p	59	85	8	8	3	-	4-6	7-8	800	1	3
7	Holyhead ...	1004.8	0	SW'S	4	c	57	85	8	8	3	2	1	7-8	1500	1	2
	Chester (Sealand)	1006.0	+2	SES	2	bc	58	75	8	8	5	3	2-3	4-6	2500	1	*
8	Manchester ...	1006.1	-2	SSW	3	bc	57	75	7	8	3	-	1	2-3	4000	1	*
10	Spurn Head ...	1006.6	0	S	3	p_0p_0	56	97	6	5	-	-	9+	9+	800	1	2
	Catterick ...	1005.3	0	S	1	bc	56	85	7	8	-	-	4-6	4-6	2500	1	*
	Tynemouth ...	1004.7	0	SW	3	c/pp	54	92	6	8	-	-	7-8	7-8	2500	1	1
11	St. Abbs Head	1002.7	+4	SW	4	c	53	85	8	8	7	9	4-6	7-8	1500	0	2
	Leuchars ...	1002.0	+2	SW	3	bc	54	85	7	2	9	6	1	4-6	2500	1	*
12	Renfrew (Abbots I.)	1002.7	-2	SSW	3	z_0	54	85	6	8	3	2	2-3	4-6	2500	1	*
	Eskdalemuir ...	1003.7	-2	SE	2	c	48	97	6	8	3	1	4-6	7-8	<150	1	*
	Point of Ayre ...	1003.9	-4	SWW	2	bc	55	92	8	1	4	6	2-3	4-6	4000	1	1
13A	Tiree	1000.5	0	SWW	4	c	55	85	8	8	7	-	4-6	7-8	1500	0	3
13B	Stornoway ...	999.2	-2	W	1	c	53	97	8	5	7	-	9	10	2500	1	1
15	Dalwhinnie ...	1001.9	+2	SW	1	i_0	49	92	8	5	-	-	10	10	800	1	*
	Aberdeen ...	1000.7	+2	SW	3	c	55	75	8	8	7	1	4-6	7-8	2500	1	1
	Wick ...	997.4	0	SW	1	c	53	97	8	5	7	8	7-8	9+	800	1	1
16	Lerwick ...	1000.0	-12	ES	2	if	53	97	5	5	2	-	7-8	10	220	1	*
17	Blacksod Point	1001.4	+10	W	3	PR	53	97	8	6	-	-	10	10	800	2	2
18	Malin Head ...	1001.4	-6	S	3	bc	52	75	8	2	-	2	2-3	4-6	5700	0	1
	Aldergrove ...	1002.5	-6	SE	2	c	52	85	8	8	3	2	2-3	9	2500	1	*
19	Birr Castle ...	1002.7	-4	SSW	2	c/pp	52	92	8	8	7	-	7-8	9	1500	1	*
20	Valentia Obsy.	1006.1	+18	W'N	4	bc	56	85	9	2	-	-	4-6	4-6	2500	1	4
	Roches Point	1005.6	+8	W	3	bc	55	85	8	3	-	3	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)	68	59	57	Tr	Tr	9.9
	Croydon ...	70	59	55	-	Tr	10.3
	S. Farnborough	71	58	57	-	0.1	8.3
	Boscombe Down	66	56	54	Tr	0.5	6.8
	Calshot (Sthmtn.)	67	60	59	-	0.5	7.5
	Lympne ...	69	56	54	Tr	-	11.1
	Manston ...	72	57	54	Tr	-	8.4
2	Shoeburyness ...	73	60	53	-	-	11.9
	Felixstowe ...	72	60	58	-	-	11.8
	Gorleston ...	68	58	56	-	-	10.9
	Mildenhall ...	73	58	54	-	0.5	9.4
	Cranwell ...	70	53	52	-	8	5.5
3	Birmingham ...	66	50	51	0.6	-	2.9
	Upper Heyford	69			2	3	*
4	Ross-on-Wye	66	54	52	1	19	3.4
5	Hartland Point	61	55	53	2	7	3.2
	Bristol ...	67		53	6	4	5.4
	Portland Bill ...	61	56	*	-	0.2	*
	Plymouth ...	62	57	46	0.2	4	8.3
	The Lizard ...	63	54	*	0.5	1	3.1
	Scilly (St. Mary's)	65	55	*	2	6	4.4
	Guernsey ...						
6	Pembroke ...	63	56	*	1	6	2.2
7	Holyhead ...	63	53	51	Tr	-	3.6
	Chester (Sealand)	71	53	47	1	0.2	4.5
8	Manchester ...	67	55	51	3	2	4.0
10	Spurn Head ...	72	55	*	1	13	6.3
	Catterick ...	66	52	50	1	0.1	5.1
	Tynemouth ...	66	53	51	1	2	*
11	St. Abbs Head	62	48	*	3	-	*
	Leuchars ...	67	49	45	1	2	4.7
12	Renfrew (Abbots I.)	65	45	39	-	1	3.2
	Eskdalemuir ...	63	40	35	1	3	6.0
	Point of Ayre ...	63	47	*	6	-	5.4
13A	Tiree	62	52	*	5	0.6	5.1
13B	Stornoway ...	59	50	*	2	3	0.0
15	Dalwhinnie ...	64	47	45	Tr	9	3.7
	Aberdeen ...	61	50	46	2	1	1.8
	Wick ...	59	53	*	Tr	17	*
16	Lerwick ...	56	52	*	0.2	0.2	*
17	Blacksod Point	62	49	*	0.3	7	*
18	Malin Head ...	61	47	*	4	0.2	2.9
	Aldergrove ...	65	46	41	9	Tr	4.1
19	Birr Castle ...	65	48	45	1	0.4	7.5
20	Valentia Obsy.	64	53	49	0.3	5	8.6
	Roches Point	64	54	*	0.5	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	hcwcbc	bccpp_0c	cpp_0c	63	59	57	Tr	Tr	9.9	*	*	3
CROYDON	217	bc	bc	cpp_0c	70	59	55	-	Tr	10.3	*	*	7
GREENWICH (Royal Observatory) ...	149	t	cy	cip	73	58	53	-	1.3	11.4	53	86	7
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	71	59	57			9.4	65	87	*
REGENTS PK. (Botanic Gardens)‡ ...	168	*	*	*	71	59	57	-	Tr	9.0	66	77	*
CAMDEN SQUARE	110	bc	bc	*	73	59	57	-	1	*	*	81	*
KENSINGTON	80	bc	bc	*	72	59	56	-	0.6		61	85	*
HAMPSTEAD OBSERVATORY	450	bc	bc	cp	69	52	48	-	1		*	94	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 20th

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
<0.1	whole	period.	

FOREIGN OBSERVATIONS.

18h. G.M.T. 19th July — 7h. G.M.T. 20th July

Stations	18h. Barom. mb.	18h. Wind Direc.	18h. Wind Force	18h. Weather	18h. Temp. °F.	7h. Barom. mb.	7h. Wind Direc.	7h. Wind Force	7h. Weather	7h. Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Past 24 Hours Rainfall Day mm.	Past 24 Hours Rainfall Night mm.
PARIS														
BRUSSELS														
BERLIN														
ZURICH														
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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 21st July, 1940.

No. 28781

OBSERVATIONS at 13h. G.M.T. 20th July

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1010·9	+6	SW	5	c	67	58	8	8	-	-	9	9	2500
	Croydon	1011·2	-2	SW'W	4	bc	70	55	8	2	6	-	4-6	4-6	4000
	S. Farnborough	1011·5	+6	SW	5	bc	68	55	9	8	-	-	4-6	4-6	4000
	Boscombe Down	1011·2	+2	SW'W	4	c	67	55	8	8	-	-	7-8	7-8	2500
	Calshot (Soton.)	1012·7	+12	SW'W	6	bc	66	75	8	1	-	-	2-3	2-3	2500
	Lympne	1013·1	-2	SW	5	c	68	75	8	8	3	-	4-6	9	1500
	Manston	1011·8	-10	SW'W	6	c	69	55	8	8	3	9	7-8	9	1500
2	Shoeburyness	1011·2	-2	SW'S	4	bc	70	55	8	2	6	1	4-6	4-6	4000
	Felixstowe	1009·9	-8	SW'S	6	c	70	65	8	3	-	3	2-3	7-8	2500
	Gorleston	1009·6	0	SW	4	⁄pr	63	75	7	8	-	-	7-8	7-8	2500
	Mildenhall	1008·7	+6	W	5	c	68	65	8	8	7	-	7-8	7-8	1500
	Cranwell	1008·0	+4	W	3	b⁄TLR	59	85	7	8	7	3	2-3	2-3	2500
3	Birmingham	1007·9	0	WSW	4	c	61	65	8	8	-	-	7-8	7-8	2500
	Upper Heyford	1009·5	0	SW	5	c	65	65	9	8	4	-	7-8	9	2500
4	Ross-on-Wye	1009·5	+6	WSW	5	b⁄pr	61	75	8	2	-	-	2-3	2-3	4000
5	Hartland Point	1010·5	+14	W	7	c	60	85	8	7	6	-	4-6	7-8	2500
	Bristol	1010·5	+6	SW	6	c	66	65	8	8	-	-	9	9	2500
	Portland Bill	1013·0	+10	SW	5	bc	60	85	8	5	-	-	4-6	4-6	4000
	Plymouth	1013·2	+10	SW	4	c	62	75	8	8	-	1	4-6	7-8	1500
	The Lizard	1014·1	+10	SW	4	bc	62	75	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1013·2	+10	WSW	5	bc	64	75	7	8	3	-	2-3	4-6	1500
	Guernsey														
6	Pembroke	1009·2	+6	W	7	bcq	60	85	7	8	4	-	4-6	4-6	1500
7	Holyhead	1004·7	+4	SW'W	5	c	62	65	8	8	8	6	4-6	9+	2500
	Chester (Sealand)	1005·6	-2	SW'S	4	bc	67	45	9	3	-	3	4-6	4-6	2500
8	Manchester	1005·4	-10	SSW	5	⁄pr	63	65	7	3	5	-	4-6	7-8	2500
10	Spurn Head	1006·2	-4	SW	3	c	59	75	7	6	-	-	7-8	7-8	800
	Catterick	1005·5	+8	W	3	pr	59	75	7	9	6	-	7-8	9+	1500
	Tynemouth	1004·3	-6	SW	3	bc	63	65	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head	1001·9	-4	SW	4	c	62	55	9	3	6	1	4-6	7-8	1500
	Leuchars	1000·8	-10	WSW	4	⁄pr	63	55	8	2	7	6	4-6	7-8	2500
12	Renfrew (Abbots I.)	1002·0	-6	WNW	4	c⁄p	63	55	9	3	-	3	7-8	9	2500
	Eskdalemuir	1002·3	-2	SSW	4	c	58	65	8	8	-	2	7-8	9	1500
	Point of Ayre	1003·4	-4	W'N	4	c	62	75	8	9	4	5	2-3	7-8	2500
13A	Tiree	1001·4	+4	W'S	3	bc	59	75	8	7	3	-	4-6	4-6	2500
13B	Stornoway	998·8	-2	W	5	c	59	75	8	5	7	-	9	9+	2500
15	Dalwhinnie	1001·2	-6	WNW	1	c	55	75	8	5	-	-	10	10	1500
	Aberdeen	1000·3	-4	SSE	2	pr	59	75	7	3	9	-	4-6	9+	2500
	Wick	997·4	-4	SW	4	c	53	92	8	8	7	8	7-8	9+	800
16	Lerwick	998·9	-6	S	3	c	56	92	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	1004·7	+16	W	3	c	60	85	8	3	6	-	2-3	7-8	1500
18	Malin Head	1002·5	+6	SW	3	c	58	75	8	1	6	2	4-6	7-8	5700
	Aldergrove	1002·7	+2	SW'S	2	pr	57	75	8	9	-	3	9	9+	2500
19	Birr Castle	1006·0	+10	W	3	c	63	65	8	3	7	-	2-3	7-8	1500
20	Valentia Obsy. †	1009·7	+14	W'S	4	c	63	85	8	2	1	6	4-6	9+	1500
	Roches Point	1008·4	+12	W'N	3	⁄pr	62	65	9	3	-	3	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 20th July

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1011·5	+6	SW	5	c	66	65	8	8	-	-	7-8	7-8	2500	1	*
Croydon	1011·4	+2	SW'S	4	bc	65	65	8	1	-	-	2-3	2-3	4000	1	*
S. Farnborough	1011·9	+4	SW	4	bc	65	65	9	8	-	-	4-6	4-6	4000	0	*
Boscombe Down	1012·3	+6	SW'W	4	c	62	75	8	2	6	-	4-6	7-8	2500	0	*
Calshot (Soton.)	1013·3	+2	WSW	6	bc	64	75	8	1	-	-	2-3	2-3	2500	1	4
Lympne	1013·9	+2	WSW	4	b	63	65	9	1	-	-	Tr	Tr	1500	0	§4
Manston	1012·3	+4	SW'W	6	bc	65	65	8	2	4	1	1	2-3	1500	0	*
Shoeburyness	1011·5	+4	SW	4	b	66	55	8	2	-	-	1	1	4000	0	*
Felixstowe	1010·4	+4	SW	6	bc	68	65	8	2	-	-	2-3	2-3	4000	1	4
Gorleston	1009·5	+2	SW	5	c	70	85	7	8	-	-	7-8	7-8	2500	0	3
Mildenhall	1009·5	+6	SW'W	6	bc	67	65	9	8	-	-	4-6	4-6	4000	1	*
Cranwell	1007·9	+6	SW	5	bc	63	65	8	3	6	3	1	2-3	2500	1	*
Birmingham	1009·3	+8	WSW	4	c⁄p	61	65	8	8	-	-	7-8	7-8	2500	1	*
Upper Heyford	1010·3	+6	WSW	5	bc	63	65	9	8	6	-	2-3	4-6	2500	1	*
Ross-on-Wye	1010·4	+10	WSW	4	bcq	62	65	8	8	-	-	4-6	4-6	4000	1	*
Hartland Point	1012·3	+10	W	5	bc	60	85	8	8	4	-	4-6	4-6	2500	0	3
Bristol	1012·4	+8	W	5	⁄pr	61	75	8	8	6	-	4-6	7-8	2500	1	*
Portland Bill	1014·3	+10	SW	5	c	60	85	8	6	4	-	4-6	7-8	4000	1	4
Plymouth	1014·4	+8	SW'W	5	c	60	85	8	5	3	-	4-6	7-8	2500	0	4
The Lizard	1015·4	+10	WSW	4	bc	60	85	8	8	-	-	4-6	4-6	2500	1	3
Scilly (St. Mary's)	1014·9	+6	W'S	5	bc	62	75	8	8	4	3	2-3	4-6	2500	1	3
Guernsey																
Pembroke	1010·3	+2	W	6	cq	59	85	7	5	7	-	2-3	7-8	2500	1	4
Holyhead	1007·5	+12	SW'W	4	pr	55	85	8	9	-	-	9+	9+	1500	1	3
Chester (Sealand)	1007·7	+10	WSW	4	pr	61	65	8	8	-	2	4-6	9	2500	1	*
Manchester	1007·2	+10	SW'W	4	c	61	75	9	8	3	1	4-6	9	4000	1	*
Spurn Head	1007·0	+2	W'S	4	bc	62	75	7	2	-	-	4-6	4-6	1500	0	3
Catterick	1005·1	+2	W'S	4	c	59	65	8	8	6	-	4-6	7-8	2500	1	*
Tynemouth	1004·0	-4	WSW	3	⁄pr	60	75	7	2	-	-	7-8	7-8	2500	1	1
St. Abbs Head	1000·7	+2	W	3	c	60	65	8	3	6	1	7-8	9	2500	0	2
Leuchars	1001·0	+2	W'N	2	c	60	55	8	8	7	-	7-8	9+	2500	1	*
Renfrew (Abbots I.)	1002·8	+6	W	4	c	61	65	9	8	6	4	4-6	9	4000	1	*
Eskdalemuir	1003·3	+8	WSW	3	⁄r	52	85	8	9	-	-	9+	9+	1500	1	*
Point of Ayre	1005·0	+10	W	5	bc	62	75	8	2	4	1	1	2-3	2500	0	2
Tiree	1002·9	+6	W'N	4	bc	58	75	8	7	3	-	2-3	4-6	2500	0	3
Stornoway	1000·4	+12	NW	3	b	56	85	8	5	7	-	7-8	9+	2500	1	2
Dalwhinnie	*	+6	WSW	2	c	53	75	8	4	2	-	4-6	10	1500	1	*
Aberdeen	1000·7	+2	-	0	rr	55	85	6	5	2	-	2-3	10	2500	1	1
Wick	997·7	+4	NW	3	c	54	92	8	8	7	-	7-8	10	800	1	1
Lerwick	998·7	-2	SE	3	⁄pr	52	97	8	8	7	-	7-8	9	800	1	*
Blacksod Point	1006·9	+8	W	3	c	59	85	8	3	-	4	2-3	4-6	2500	0	2
Malin Head	1004·3	+4	W	3	bc	58	75	8	4	-	-	4-6	4-6	5700	0	2
Aldergrove	1004·8	+10	W'S	2	⁄pr	59	85	9	3	6	3	4-6	7-8	1500	1	*
Birr Castle	1008·0	+8	WSW	2	⁄pr	61	75	8	8	7	-	7-8	9	1500	1	*
Valentia Obsy. †	1011·4	+8	W'S	4	c⁄p	59	85	8	2	7	9	7-8	7-8	2500	1	4
Roches Point	1010·7	+12	W	4	⁄pr	61	75	8	3	5	5	4-6	7-8	1500	1	3

PAST 24 HOURS.

Stations.	Weather. 7h.—13h. 20th. (37)	13h.—18h. 20th. (38)	18h. 20th to 1h. 21st. (39)	1h.—7h. 21st. (40)
London (Kew)	cdqrc	cbcy	crqrbcb	bbccw
Croydon	cprqpqby	bcy	b	bcobcw
S. Farnborough	cPRbc	bcyv	cvPRb	bccbc
Boscombe Down	bc,c	cyc	cbc	c
Calshot (Soton.)	cprmbc	bbc	bcb,cb	bcc
Lympne	cprqc	cbcyb	bw	bwbc
Manston	cirqmc	bcyby	bbcbw	bcwc
Shoeburyness	cprcbcy	bcyby	bcprbcb	bbc
Felixstowe	cPRqbc	bcv	bcvprb	bcc
Gorleston	cprqc	cprqbcq	cbc	bcc
Mildenhall	cjpcPRc	cprqbcv	bcc	c
Cranwell	tlrqbc	tlr,bc	bc	bcc
Birmingham	bccpr	cprq	cpr	cprq
Upper Heyford	crmprbcc	cbcy	bcbbc	bc
Ross-on-Wye	bcqrbcqp	bcqrbcq	bc	cbcc
Hartland Point	bccp	cpbc	bccp	cp
Bristol	cPRcbc	cPRbcprq	bcprq	bcprqPRc
Portland Bill	cbc	bcc	bcc	c
Plymouth	bbc	bc	bcmcmq	cmprbcm
The Lizard	bc	bc	cbc	bc
Scilly (St. Mary's)	bcpq	bc	bcc	bc
Guernsey				
Pembroke	cprbcq	bccq	cbcq	cprbcq
Holyhead	PRbcc⊕	PRprc	prirc ☽	prc ☽
Chester (Sealand)	bccprpqy	bccypr	cbccprq	cirpr
Manchester	tlrprq	bccprqPR	cbcmcmq	cmprqcpr
Spurn Head	ctiR	c	c	c
Catterick	PRtprq	prcPRc	prqbbc	bcc
Tynemouth	cprntl	bccpq	cbc	bc
St. Abbs Head	bcctq	bcprc	c	cbc
Leuchars	bccprqcy	ccy	cyc	cbc
Renfrew (Abbots I.)	bcwmbc	cyprc	cbcc	bccwirq
Eskdalemuir	bccPRH	bccrR	cprb	bbcc
Point of Ayre	cprc	bc	cbcc	bc
Tiree	cbc	bc	bc	bc
Stornoway	cpr	cprq	cPR	cprq
Dalwhinnie	c	c	c	c
Aberdeen	ytlcpr	PRcr	crq	ccirq
Wick	rrirc	rrc	cprqc	cprq
Lerwick	cprc	cprq	cpt	cp
Blacksod Point	cbc	prqbc	rr	prqc
Malin Head	c	c	cbcc	c
Aldergrove	prqcpr	prqcpr	cbcc	c
Birr Castle	cprc	cpr	cpr	cpr
Valentia Obsy. †	bccprc	cpcbcprq	cprqc	cprqbc
Roches Point	bcprc	cprqc	c	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

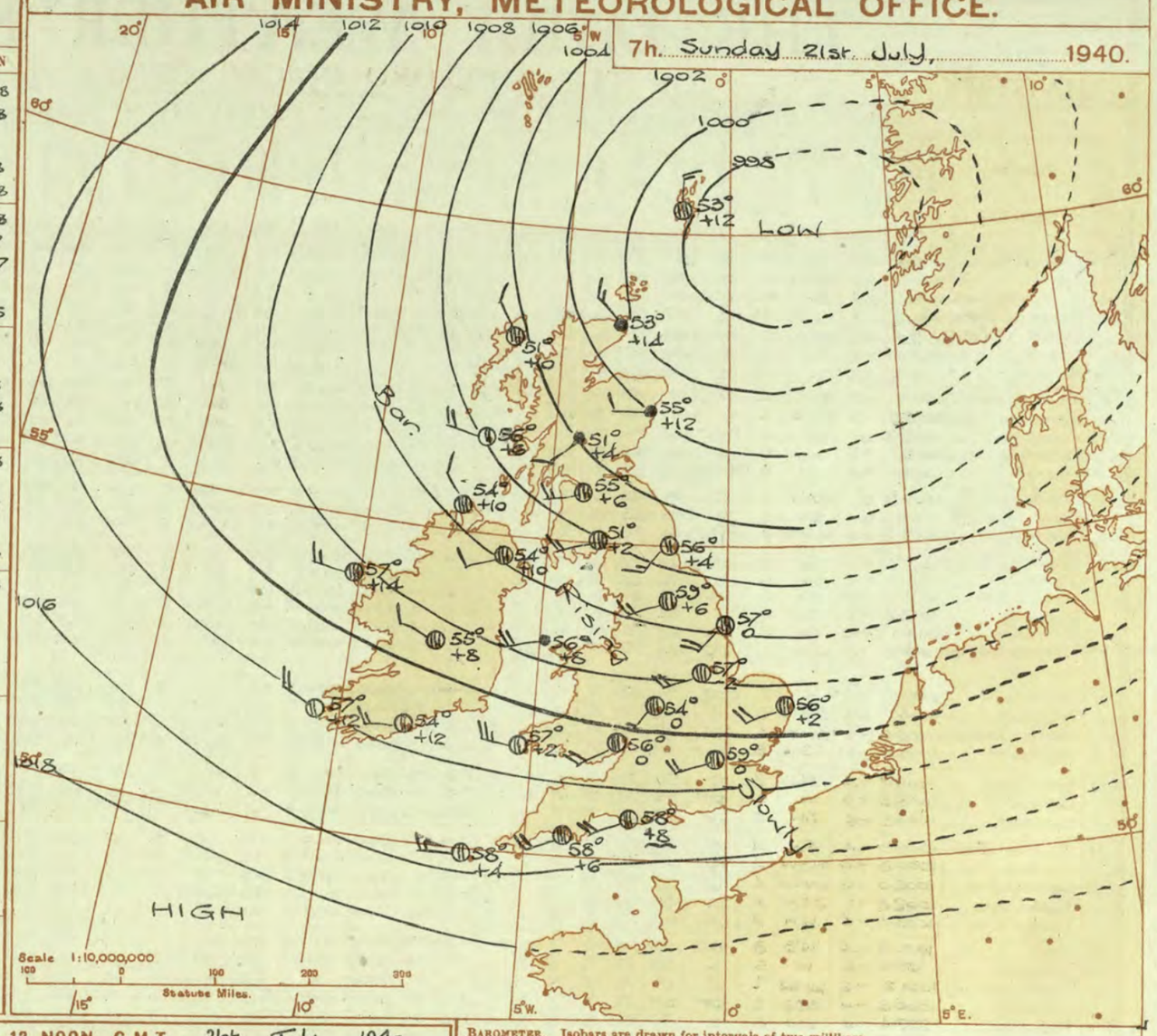
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 21st July, 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 20th July			18h. G.M.T.			01h. G.M.T. 21st July			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	85	02854	32225	87	02854	29315	51	25746	25487	52	10736	28488
115	82	64725	24368	--	67109	20369	87	09723	32467	62	64825	31468
203												
206	52	64846	20368	52	02845	22568	52	81746	22388	51	51956	29188
210	62	64736	22368	52	64747	22368	52	61747	22468	51	62756	26268
220	52	02844	25228	83	01844	28314				62	23726	23268
230				87	10946	20427	8-	02747	22367	57	10946	22327
245	96	91855	22426	82	25954	23487	57	02973	22366	07	62367	22467
260	3-	25955	20485	8-	02956	22386						
277	86	25954	20485	86	01953	24424	5-	02857	14167	67	61644	24465
279												
285	9-	82648	24588	90	25745	26583						
288	37	25865	18485	87	01863	20484	07	00890	18213	87	02864	20215
273	86	10753	22514							32	63434	21368
301	--	01744	21495	--	01852	22414						
321	67	02754	20494	23	02764	23484	06	01690	22313	57	61745	20368
299	8-	02745	18315	8-	02746	20396	50	05653	20383			
292	9-	81848	53487	86	25345	56486	44	01762	22283	87	01844	20225
310	--	01635	24415									
316	8-	02656	18396	36	01763	53484	53	02653	24186	53	02664	22367
333	26	02852	22513	82	82756	22587				57	61755	26366
334	--	81846	20616	--	82646	91587						
340	8-	81946	22586	86	02955	53586						
136	30	01965	22485	8-	10855	54485	57	02864	20486			
336	--	22834	20567	--	65642	28668						
350	23	01863	20514	84	01863	18583						
368	30	25845	22685	60	10844	55648	80	02746	55626	87	02744	55415
379	30	01755	20415	80	01854	20414	50	05652	18316	57	02745	20327
390	10	01864	20584	2-	81857	54487	54	01761	20313	57	02744	20326
382	26	02965	20426	60	01854	18514	03	01890	20303	87	02854	53427
438	57	01733	23615							36	02744	24615
430				20	01855	55615	50	00751	28412	83	01854	22415
409	83	01852	51513	83	02853	55526	8-	25857	10487	88	25844	22485

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. 21st July 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate westerly winds; bright intervals; occasional showers today, heavy and with thunder locally; becoming fair or fine tonight and tomorrow except for scattered showers: rather cool.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light or moderate westerly wind, fresh at times in exposed places, veering northwest later: bright intervals, occasional showers and local thunder today, becoming less frequent tonight and tomorrow; cool.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1-4.
12 S.W. Scotland & Isle of Man.	As 5-8.
13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate northwesterly wind; cloudy, occasional showers and thunderstorms; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5-8.

GENERAL INFERENCE.

A depression near the Shetlands is moving northeastwards and becoming less deep, and a ridge of high pressure developing west of Ireland will move eastwards across the British Isles. A depression in mid-Atlantic will move east or northeast. There will be bright intervals and occasional showers today in all areas, heavy and with thunder locally, more especially in the East and North. Tonight and tomorrow weather will become fair or fine in the South and West apart from some scattered showers.

FURTHER OUTLOOK.

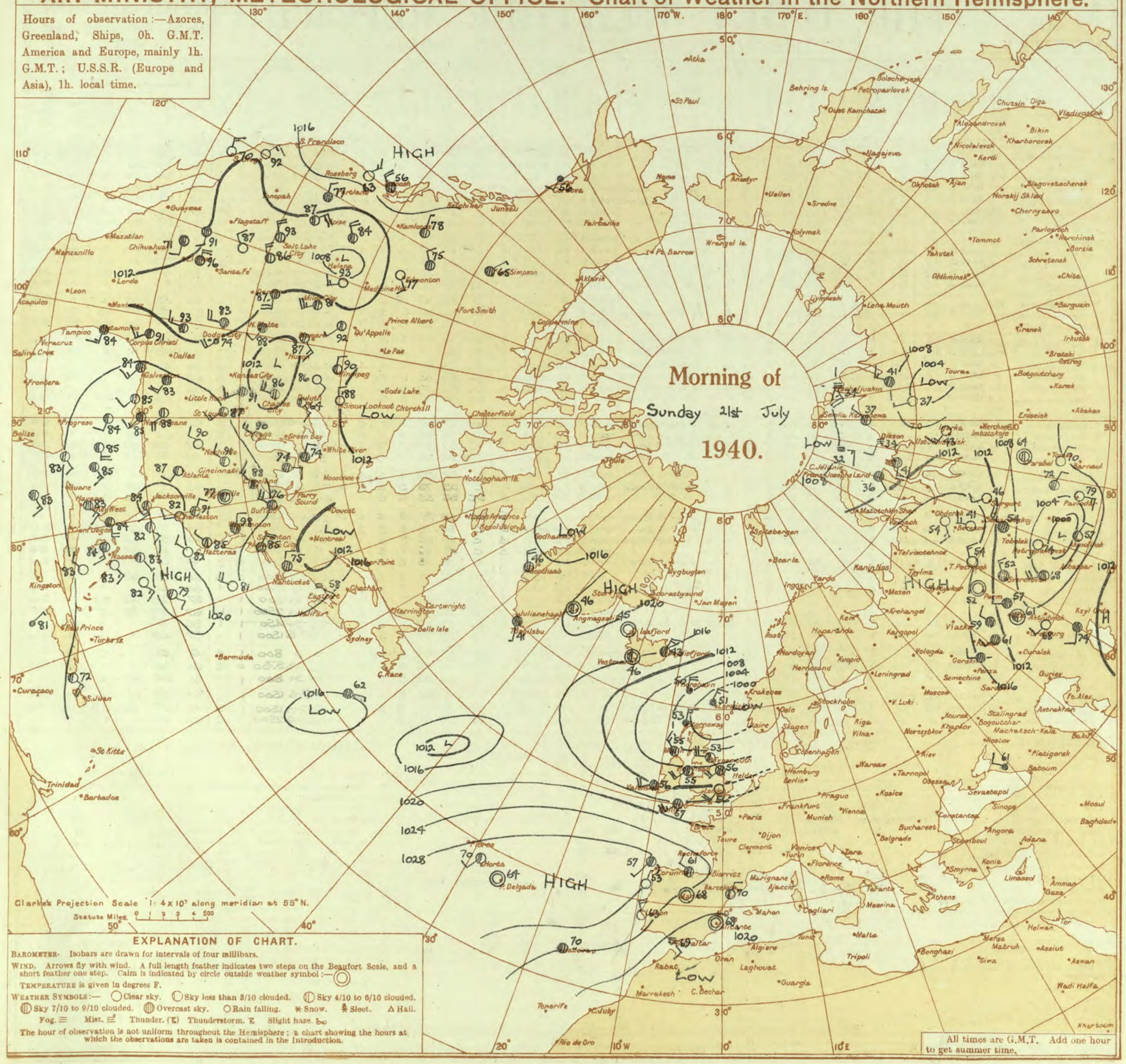
Mainly fair in the Southeast, unsettled in the West.

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.
C 64/5902 m. 8048 D 3703 G 948 (5802 d/40)

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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday 21st. July 1940.
No. 28731

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

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	1014.3	+2	SW	3	b	56	85	7	-	-	-	0	0	-
	S. Farnborough	226	1014.3	+2	SW	4	bc	55	85	8	-	3	2	0	4-6	-
	Boscombe Down	417	1014.5	+2	SW'W	4	c	55	85	8	5	7	-	4-6	9	4000
	Calshot (Sthmtn.)	8	1015.2	+6	W'S	4	bc	57	85	7	5	3	1	1	2-3	2500
	Lympne	346	1015.3	-2	W'S	3	b	59	97	8	-	-	-	0	0	-
	Manston	154	1014.2	0	SW'W	4	bc	54	92	8	-	-	1	0	2-3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1012.9	+6	WSW	4	bc	58	85	8	-	-	6	0	4-6	-
	Gorleston	5	1011.9	+2	SW	3	bc	58	75	7	-	4	-	0	4-6	-
	Mildenhall	19	1011.8	+2	SW	4	c ⊕	55	85	8	5	7	6	Tr	9	5700
	Cranwell	240	1010.4	+6	SW	4	bc	54	85	7	5	3	6	Tr	4-6	4000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1012.9	+2	SW'W	3	c	53	92	7	5	4	-	2-3	7-8	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1013.4	-2	W	5	c	58	75	8	8	6	-	4-6	7-8	2500
	Bristol	209	1013.9	+2	SW	3	pr	55	92	7	8	3	-	4-6	7-8	1500
	Portland Bill	32	1015.4	-4	SW	4	c	57	92	8	5	4	-	4-6	7-8	4000
	Plymouth	82	1015.6	-2	WSW	4	z₀	58	85	6	5	-	-	9+	9+	4000
	The Lizard	240	1016.9	0	WSW	4	bc	55	92	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1016.2	-2	WSW	5	c	57	75	7	5	-	-	10	10	1500
	Guernsey	175														
6	Pembroke	142	1012.2	+2	W'N	6	bcq	58	85	8	2	7	1	2-3	4-6	1500
7	Holyhead	26	1009.0	+2	WSW	4	c	55	85	8	5	4	6	2-3	9+	4000
	Chester (Sealand)	16	1009.4	-2	WSW	1	c/pr	55	85	7	8	7	-	4-6	7-8	2500
8	Manchester	70	1009.2	+4	SW'W	3	z₀	54	85	6	5	3	-	9	9+	4000
10	Spurn Head	29	1008.8	-4	SW	4	c	56	92	7	2	-	-	7-8	7-8	1500
	Catterick	175	1007.6	+6	WSW	2	bc	54	85	8	5	5	-	4-6	4-6	4000
	Tynemouth	108	1005.9	+8	W	4	z₀	53	85	6	-	4	-	0	2-3	-
11	St. Abbs Head	280	1003.5	+6	W	4	c	53	75	8	4	4	-	4-6	7-8	2500
	Leuchars	36	1003.0	+6	WSW	3	c	53	75	7	5	7	-	4-6	7-8	2500
12	Renfrew (Abbots I.)	19	1005.3	+4	WSW	2	c	51	92	8	5	7	-	1	7-8	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1007.2	+2	W'S	3	c	55	97	8	8	4	-	4-6	7-8	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1003.0	+6	N	3	pr	53	97	6	8	2	-	9	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	999.2	+6	NW	3	c/pr	53	97	7	9	7	7	7-8	10	450
16	Lerwick	156	997.7	-4	NE	3	pr	51	97	7	8	7	-	7-8	9	800
17	Blacksod Point	18	1008.6	+2	W	2	rr	54	97	7	6	-	-	10	10	<150
18	Malin Head	84	1006.2	+4	NW	3	c/pr	55	85	8	9	-	-	7-8	7-8	4000
	Aldergrove	268	1007.1	+4	WSW	3	c	54	85	8	2	-	-	7-8	7-8	1500
19	Birr Castle	173	1010.1	+2	WSW	1	c/pr	53	97	8	8	7	-	4-6	9	1500
20	Valentia Obsy.	30	1012.8	+6	W	4	c	56	92	8	8	7	-	7-8	9+	2500
	Roches Point	22	1012.5	0	W	3	c	55	92	8	5	-	5	4-6	7-8	1500

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

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)	1013.8	0	SW'W	3	c	59	75	8	7	3	9	2-3	9	1500	1	*
Croydon	1014.0	+2	WSW	4	bc	59	85	8	7	7	-	2-3	4-6	4000	0	*
S. Farnborough	1014.0	+2	SW	4	c	58	85	8	8	3	-	2-3	7-8	2500	1	*
Boscombe Down	1013.9	+2	SW'W	4	c	56	85	8	5	-	-	9	9	5700	0	*
Calshot (Sthmtn.)	1014.8	+2	WSW	4	bc	61	85	8	2	3	-	2-3	4-6	1500	1	3
Lympne	1015.5	0	W'S	2	c	57	85	8	2	6	5	4-6	7-8	1500	0	§4
Manston	1014.3	+2	WSW	4	c	58	85	7	2	3	2	4-6	9	2500	0	*
Shoeburyness	1013.8	+2	SW'W	4	bc	59	75	8	5	7	1	Tr	4-6	7200	0	*
Felixstowe	1013.1	+4	WSW	4	c⊕	58	85	8	-	4	7	0	9+	-	1	3
Gorleston	1011.8	+2	SW'W	4	c	56	85	7	-	7	-	0	9	-	0	2
Mildenhall	1011.9	+2	SW'W	3	c	57	92	8	5	7	7	2-3	10	4000	0	*
Cranwell	1010.1	-2	SW'W	4	c	57	85	8	5	7	2	4-6	9+	7200	1	*
Birmingham	1011.7	0	SW	3	c	54	85	8	6	7	-	2-3	9+	800	1	*
Upper Heyford	1012.6	0	WSW	3	c	54	92	8	5	7	-	2-3	9+	220	0	*
Ross-on-Wye	1012.2	0	SW	4	c	56	85	8	8	7	8	4-6	9+	2500	1	*
Hartland Point	1013.2	+4	W	5	c/pr	58	85	8	8	5	-	4-6	7-8	2500	1	3
Bristol	1013.8	+6	SW	3	PR	54	97	8	8	3	-	7-8	9+	1500	1	*
Portland Bill	1015.2	+8	WSW	4	c	58	92	8	5	4	-	4-6	7-8	4000	1	4
Plymouth	1015.3	+6	SW'W	4	z₀	58	85	6	8	-	1	4-6	4-6	1500	0	3
The Lizard	1016.4	+8	WSW	3	bc	57	92	8	8	-	-	4-6	4-6	2500	0	3
Scilly (St. Mary's)	1015.6	+4	W	3	bc	58	85	8	2	4	-	2-3	4-6	2500	0	2
Guernsey																
Pembroke	1012.5	+2	W'N	5	bcq	57	97	8	2	6	-	4-6	4-6	1500	1	3
Holyhead	1009.5	+8	W'S	4	pr	56	85	8	7	3	-	9	9+	1500	1	2
Chester (Sealand)	1009.7	+6	WSW	2	ir₀	57	85	7	6	2	-	7-8	10	1500	1	*
Manchester	1009.4	+2	SW'S	3	c/pr	54	92	7	8	6	-	9	9+	1500	2	*
Spurn Head	1008.9	0	SW	4	c	57	92	6	5	5	2	4-6	9	2500	0	3
Catterick	1007.6	+6	WSW	3	c	59	75	9	8	6	8	7-8	9	2500	1	*
Tynemouth	1006.3	+4	SW	3	bc	56	85	6	8	-	-	4-6	4-6	2500	1	1
St. Abbs Head	1003.8	+4	W	5	bc	56	75	9	4	4	9	2-3	4-6	2500	0	3
Leuchars	1003.7	+6	WSW	3	c	56	75	8	5	7	6	2-3	7-8	2500	1	*
Renfrew (Abbots I.)	1005.9	+6	W'S	3	c	55	85	9	5	-	-	9+	9+	1500	1	*
Eskdalemuir	1006.3	+2	WSW	3	c	51	92	7	5	-	-	9	9	1500	1	*
Point of Ayre	1007.9	+6	W'N	5	c	56	85	8	8	4	9	2-3	7-8	1500	0	2
Tiree	1005.3	+6	WNW	4	bc	56	75	8	8	-	-	4-6	4-6	1500	0	3
Stornoway	1004.4	+10	NNW	2	c/pr	51	97	7	8	2	-	7-8	10	1500	1	1
Dalwhinnie	1004.5	+4	SW	2	ir₀	51	85	7	5	-	-	10	10	800	1	*
Aberdeen	1002.5	+12	W	2	ir₀	55	85	8	5	2	-	4-6	10	2500	1	1
Wick	1001.2	+14	NNW	3	pr	53	92	7	5	7	8	7-8	9+	450	1	1
Lerwick	998.9	+12	N	3	c	53	92	8	5	7	-	4-6	7-8	1500	1	*
Blacksod Point	1010.5	+14	W'N	3	c	57	85	8	3	-	-	9	9	800	1	3
Malin Head	1007.4	+10	NNW	2	cjp	54	85	8	9	5	-	2-3	7-8	5700	0	2
Aldergrove	1008.1	+10	SW'W	2	c	54	92	8	5	-	-	9+	9+	800	1	*
Birr Castle	1010.9	+8	WNW	2	c/pr	55	92	8	8	-	-	7-8	7-8	1500	1	*
Valentia Obsy.	1014.1	+12	WNW	4	bc	57	85	8	8	-	-	2-3	2-3	1500	1	3
Roches Point	1013.3	+12	W	3	bc	54	85	8	5	-	-	4-6	4-6	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 20th. Hrs. (36)
London (Kew)	68	55	50	1	1	8.9
Croydon	70	54	50	1	1	10.1
S. Farnborough	70	53	48	2	2	10.1
Boscombe Down	(67)	53	48	-	-	9.2
Calshot (Sthmtn.)	67	57	54	1	-	10.7
Lympne	67	51	46	Tr	-	8.0
Manston	70	53	50	0.2	-	9.5
Shoeburyness	71	55	49	1	0.1	8.7
Felixstowe	71	55	53	1	0.2	6.9
Gorleston	71	54	51	0.1	-	*
Mildenhall	71	54	49	2	-	9.6
Cranwell	67	53	51	7	-	9.4
Birmingham	66	52	49	1	1	7.3
Upper Heyford	67	52	47	0.5	Tr	*
Ross-on-Wye	66	54	50	0.2	Tr	8.7
Hartland Point	68	56	54	0.5	0.1	11.0
Bristol	68	53	51	5	6	10.8
Portland Bill	60	56	*	-	-	*
Plymouth	62	57	53	-	Tr	10.7
The Lizard	63	54	*	-	-	13.1
Scilly (St. Mary's)	64	55	*	0.2	-	12.6
Guernsey						
Pembroke	60	55	*	1	2	9.4
Holyhead	62	54	52	5	1	6.3
Chester (Sealand)	67	53	45	1	0.5	7.5
Manchester	66	51	43	3	9	6.9
Spurn Head	67	58	*	5	0.3	7.2
Catterick	63	51	49	2	Tr	7.0
Tynemouth	64	51	48	3	-	*
St. Abbs Head	64	50	*	Tr	-	*
Leuchars	64	51	47	0.4	1	8.0
Renfrew (Abbots I.)	64	50	44	0.1	Tr	8.7
Eskdalemuir	61	42	37	10	0.5	6.6
Point of Ayre	64	51	*	1	-	8.5
Tiree	61	53	53	-	-	7.5
Stornoway	60	51	*	1	3	1.4
Dalwhinnie	57	48	46	0.2	-	0.0
Aberdeen	62	52	49	2	5	3.1
Wick	56	51	*	5	0.3	*
Lerwick	57	49	*	1	1	4.4
Blacksod Point	61	51	*	5	4	*
Malin Head	60	50	*	-	Tr	13.3
Aldergrove	61	52	50	2	-	4.1
Birr Castle	63	51	51	2	1	5.3
Valentia Obsy.	63	55	50	0.5	0.2	9.3
Roches Point	64	54	*	0.3	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	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	cd₀r₀c	cbcy	cr₀rbcw	68	55	50	1	1	8.9	•	•	8
Croydon	217	cpr₀pr₀y	bcy	bbcw	70	54	50	1	1	10.1	•	•	8
Greenwich (Royal Observatory)	149	c	cy	crbcc	72	54	48	-	1	9.4	53	67	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park)	27	•	•	•	71	55	52	0.4			66	78	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•									•
Camden Square	110	c	bcr	•	72	55	51	-	3	•	•	67	•
Kensington	80	bc.	bcr	•	71	54	50	-	0.4		54	71	•
Hampstead Observatory	450										•		•

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.
<0.1	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.

		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

Monday 22nd July 1940.

No. 28732

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

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)	1013·5	0	SW	3	r/tlp	59	85	8	9	-	3	2-3	4-6	1500
	Croydon	1014·1	+4	NW	4	tlp	58	85	8	9	6	-	7-8	7-8	1500
	S. Farnborough	1013·5	-2	WNW	2	c/pr	61	85	9	8	6	3	4-6	7-8	2500
	Boscombe Down	1013·8	-2	W	4	bc	65	55	8	8	-	-	4-6	4-6	2500
	Calshot (Soton.)	1014·5	-2	SW'W	6	c	66	75	8	8	-	-	4-6	4-6	2500
	Lympne	1014·8	-6	SW	5	c	62	*	8	3	6	7	7-8	9	2500
	Manston	1013·8	+2	WSW	4	c/pr	58	92	6	9	3	3	7-8	9+	1500
2	Shoeburyness	1013·4	-2	SW	4	c	63	75	8	8	2	2	4-6	9	4000
	Felixstowe	1012·7	-2	W'S	5	c/pr	68	55	8	3	6	3	4-6	9	2500
	Gorleston	1011·5	0	NW	3	pr	62	65	7	8	-	-	7-8	7-8	2500
	Mildenhall	1011·4	-6	WNW	3	pr	60	85	8	9	7	4	7-8	9	2500
	Cranwell	1010·8	+2	WNW	2	c/pr	59	85	7	9	7	-	9	9+	1500
3	Birmingham	1011·3	0	W	4	c/pr	63	65	8	8	-	-	7-8	7-8	2500
	Upper Heyford	1012·3	-4	WSW	4	c/pr	63	75	9	3	6	3	4-6	7-8	2500
4	Ross-on-Wye	1012·4	0	W	4	c	64	55	9	8	-	-	7-8	7-8	4000
5	Hartland Point	1014·8	+6	WNW	3	bc	61	85	8	2	6	-	2-3	4-6	2500
	Bristol	1013·7	-2	WSW	5	bc	64	65	9	8	-	-	4-6	4-6	2500
	Portland Bill	1015·1	-2	WSW	4	bc	60	85	8	1	-	-	2-3	2-3	4000
	Plymouth	1015·3	0	SW	4	c	63	75	8	2	-	8	4-6	7-8	2500
	The Lizard	1016·1	+4	W	3	bc	63	75	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1016·4	+4	W'N	2	c	64	75	8	8	4	4	2-3	9	2500
	Guernsey														
6	Pembroke	1013·5	+2	WNW	4	bc	60	85	8	5	-	-	2-3	2-3	2500
7	Holyhead	1011·5	+12	WSW	4	bc	62	75	9	8	3	-	2-3	2-3	2500
	Chester (Sealand)	1011·1	+8	NW	3	c	62	75	8	8	-	-	7-8	7-8	2500
8	Manchester	1010·7	+6	W	4	c	62	65	8	8	6	-	7-8	9	2500
10	Spurn Head	1009·0	0	WNW	6	c	59	85	6	8	-	-	9+	9+	800
	Catterick	1008·2	+4	WNW	3	c	64	65	9	8	-	1	7-8	7-8	2500
	Tynemouth	1006·8	+6	W	5	c/pr	63	65	8	2	-	-	7-8	7-8	2500
11	St. Abbs Head	1005·7	+12	NW	4	bc	59	65	9	3	4	2	2-3	4-6	1500
	Leuchars	1005·0	+6	WSW	3	c	62	55	9	8	7	-	7-8	7-8	4000
12	Renfrew (Abbots I.)	1007·9	+10	W	4	c	60	65	9	8	6	2	9+	9+	2500
	Eskdalemuir	1007·2	+6	W'N	4	c	60	65	8	8	-	1	7-8	7-8	2500
	Point of Ayre	1010·1	+10	NWW	3	c/p	61	85	8	8	4	-	9	9+	1500
13A	Tiree	1007·4	+18	NW'N	3	bc	60	75	8	8	3	-	2-3	4-6	2500
13B	Stornoway	1005·8	+8	WNW	5	ir$_o$	54	85	7	5	7	-	7-8	10	1500
15	Dalwhinnie	1005·5	+8	SW	2	c	57	85	7	8	3	-	7-8	9	800
	Aberdeen	1004·7	+8	NW'N	2	ir$_o$	58	85	7	8	2	-	4-6	10	1500
	Wick	1003·4	+12	NW	3	c	56	65	8	8	7	2	7-8	9+	1500
16	Lerwick	1001·2	+6	NE'N	4	c	59	75	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1013·0	+8	W	4	bc	60	75	8	2	5	-	2-3	4-6	1500
18	Malin Head	1009·5	+6	NW	3	bc	58	65	8	4	-	-	4-6	4-6	5700
	Aldergrove	1009·5	+8	NW'W	4	c	62	55	9	8	-	-	7-8	7-8	2500
19	Birr Castle	1013·1	+10	W	1	c/pr	59	75	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy. †	1016·2	+10	W'N	4	bc	62	75	9	2	4	5	2-3	2-3	2500
	Roches Point	1014·1	+6	NW'N	3	bc	65	65	9	2	-	-	4-6	4-6	2500

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

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)	1012·8	-4	W'S	3	bc	68	45	8	8	-	-	4-6	4-6	2500	1	*
Croydon	1012·8	-6	W'S	4	bc	68	55	8	3	6	-	4-6	4-6	4000	1	*
S. Farnborough	1012·8	-4	WSW	4	bc	67	45	9	8	6	-	2-3	2-3	2500	1	*
Boscombe Down	1013·6	+2	W'N	4	bc	64	55	9	8	-	4	2-3	2-3	4000	0	*
Calshot (Soton.)	1013·9	-2	WSW	5	bc	64	75	8	4	-	4	4-6	4-6	4000	1	3
Lympne	1014·9	-4	SW	4	c	60	85	8	8	-	-	7-8	7-8	1500	1	§ 4
Manston	1013·3	-2	SW'W	4	pr	62	85	8	9	4	-	4-6	7-8	800	0	*
Shoeburyness	1013·0	0	SSW	2	bc	64	75	8	7	4	-	2-3	2-3	2500	0	*
Felixstowe	1012·3	-2	W'N	4	c	67	55	8	3	6	3	4-6	7-8	2500	1	2
Gorleston	1011·8	+2	SW	2	bc/pr	65	65	7	8	-	-	4-6	4-6	2500	1	2
Mildenhall	1011·6	+2	W'N	4	bc	65	75	8	8	6	9	4-6	4-6	2500	1	*
Cranwell	1010·9	+2	W	3	pr	61	75	8	8	6	-	4-6	7-8	4000	1	*
Birmingham	1012·0	0	W	3	bc	63	55	8	8	-	-	4-6	4-6	4000	1	*
Upper Heyford	1012·3	0	W'S	3	c	63	65	9	8	6	-	7-8	7-8	2500	1	*
Ross-on-Wye	1012·9	+6	W	4	pr	62	75	8	2	-	-	7-8	7-8	2500	1	*
Hartland Point	1014·7	0	WNW	4	bc	60	85	8	5	-	-	4-6	4-6	2500	0	3
Bristol	1013·9	-2	W'S	4	bc	62	75	8	1	4	-	2-3	2-3	4000	1	*
Portland Bill	1014·8	-4	WSW	4	c	61	85	8	2	4	-	7-8	9	4000	1	4
Plymouth	1015·0	-2	W	3	bc	65	65	8	2	-	2	4-6	4-6	2500	0	2
The Lizard	1016·1	0	W'S	3	bc	61	85	8	8	6	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1016·5	-2	W'S	2	c	62	75	8	8	8	3	2-3	7-8	2500	0	2
Guernsey																
Pembroke	1013·9	0	W	4	bcq	60	85	8	2	6	-	2-3	2-3	2500	1	2
Holyhead	1011·6	+2	W'S	3	pr	59	75	8	8	-	-	9+	9+	2500	1	2
Chester (Sealand)	1011·2	0	WNW	3	c	62	65	9	5	-	-	9	9	4000	1	*
Manchester	1010·9	+2	W	4	bc	63	65	9	1	4	-	2-3	4-6	5700	0	*
Spurn Head	1009·4	0	W'S	3	c	64	75	6	2	-	-	7-8	7-8	1500	0	2
Catterick	1009·3	+6	W	3	c	60	75	9	8	6	-	4-6	7-8	2500	1	
Tynemouth	1008·1	+8	W	5	bc	64	55	8	2	-	-	4-6	4-6	2500	1	1
St. Abbs Head	1006·0	+4	NW	4	c	59	65	9	5	6	2	4-6	7-8	2500	0	3
Leuchars	1005·5	+4	WSW	3	c	61	65	9	8	7	-	4-6	9	4000	0	*
Renfrew (Abbots I.)	1008·0	+2	WSW	3	c/p	56	92	8	5	7	-	9+	9+	1500	1	*
Eskdalemuir	1007·7	0	W	5	bc	56	65	8	8	-	-	4-6	4-6	2500	1	*
Point of Ayre	1010·1	0	W'N	4	bc	61	75	8	5	4	-	4-6	4-6	4000	0	2
Tiree	1009·1	+6	NW'N	4	bc	56	75	8	8	3	-	4-6	4-6	1500	0	3
Stornoway	1006·8	+10	NW	5	ir$_o$	53	97	7	8	-	-	9+	9+	1500	1	3
Dalwhinnie	*	+8	W	2	r$_o$	51	85	7	5	-	-	10	10	1500	1	*
Aberdeen	1005·7	+2	SW'S	1	ir$_o$	55	92	6	8	2	-	9	10	1500	1	1
Wick	1003·6	0	E	1	r$_o$r$_o$	55	85	7	5	1	-	7-8	10	800	1	1
Lerwick	1003·5	+12	NE	3	c	55	92	8	8	7	-	7-8	9	1500	1	*
Blacksod Point	1013·8	+4	W	4	c	57	85	7	5	-	-	10	10	800	0	3
Malin Head	1010·6	+10	NNW	4	c	55	85	8	8	-	-	9	9	5700	0	2
Aldergrove	1010·1	+4	W'N	4	c	61	65	9	2	-	-	7-8	7-8	2500	1	*
Birr Castle	1013·1	+2	WNW	2	c	60	65	8	4	-	-	7-8	7-8	2500	1	*
Valentia Obsy. †	1015·8	-2	NW	3	bc	60	75	9	2	-	6	2-3	4-6	2500	1	2
Roches Point	1013·9	-2	NW	3	bc	65	65	9	1	-	5	2-3	4-6	4000	0	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 21st (37)	13h.—18h. 21st (38)	18h. 21st to 1h. 22nd (39)	1h.—7h. 22nd (40)
London (Kew)	cPR+lpR	bcy	bcbbcw	bccw
Croydon	bcepptlq	pr$_o$bcy	bbc.	bc
S. Farnborough	cPR bc	bcyrb	byrbc	bcwbc⊕
Boscombe Down	cjpcpp	bcy	bc	bcbbcw
Calshot (Soton.)	cPRbc	jpr$_o$bc	bcbbc	bcwbbc
Lympne	bccpr$_o$pr	cPR bc	bbc	bcw
Manston	ccpr$_o$	cpr$_o$tc	pr$_o$bcw	bcwc
Shoeburyness	bcppc	cp$_o$tlbc	bcm$_o$	bcwm$_o$
Felixstowe	ceir$_o$cpr$_o$	tprbc	bcpr$_o$	bcc
Gorleston	cpr$_o$t	crlrprbc	bccpr$_o$c	cbcc
Mildenhall	cPRcpr$_o$	cpr$_o$tr$_o$bc	bcbcw	bcwbc
Cranwell	cpr$_o$c	pr$_o$,bcyc	PR,c,ir$_o$m$_o$	cm$_o$b
Birmingham	crbcpr	cbc	cbc	bc
Upper Heyford	cpr$_o$PRbc	bcc	cpr$_o$bcc	bcc
Ross-on-Wye	cPccpr$_o$bcr	bcv ycvy	cpcbcb	bbc
Hartland Point	cpbc	bc	bc	bc
Bristol	cPRprbc	bcbbc	bcbbcw	bcwc
Portland Bill	cbc	c	c	bcc
Plymouth	bcim$_o$bc	bc	bcc	bbcmjf
The Lizard	bc	bc	bcw	bc
Scilly (St. Mary's)	bcc	cbcc	c	cbcc
Guernsey				
Pembroke	qbc	bcq	bc	cbc
Holyhead	pr$_o$bc	bcprc	cprbc	bcwbc
Chester (Sealand)	cr$_o$RmPR	cbcc	cir$_o$prbc	ccr$_o$prc
Manchester	rrRpr$_o$c	cbc	bccpr$_o$c	cbcm$_o$wc
Spurn Head	cr$_o$	bcc	bc	bc
Catterick	cbcc	cpr$_o$bc	bcw	bcwb
Tynemouth	bccp	cbc	bcc	cbc
St. Abbs Head	bc	bcc	c	cr$_o$r
Leuchars	bccir$_o$cy	cy.c	cir$_o$cbc	bccbc
Renfrew (Abbots I.)	cpr$_o$c	cpr$_o$cr$_o$R	opr$_o$c	cbcbw
Eskdalemuir	cprbcc	cbcy	bcvcpr	cbc
Point of Ayre	bcc	cbc	c	bc
Tiree	cbc	bc	cr$_o$	cpr
Stornoway	cir$_o$	clr	cir$_o$	cird$_o$
Dalwhinnie	ir$_o$	cir$_o$		cir$_o$
Aberdeen	cir$_o$	PRcir$_o$	cir$_o$c	cbc
Wick	cpr$_o$c	pr$_o$r$_o$	cddbc	bcpr$_o$
Lerwick	c	cpr	cprir	c
Blacksod Point	bc	c	c	cbc
Malin Head	c	crrcir$_o$c	bc	c
Aldergrove	cPRpr$_o$	cybcyc	pr$_o$d$_o$mbw	
Birr Castle	cpr	c		c
Valentia Obsy. †	bc	bc	bcwcw	cwbcwb
Roches Point	bc	bc	bbc	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.*

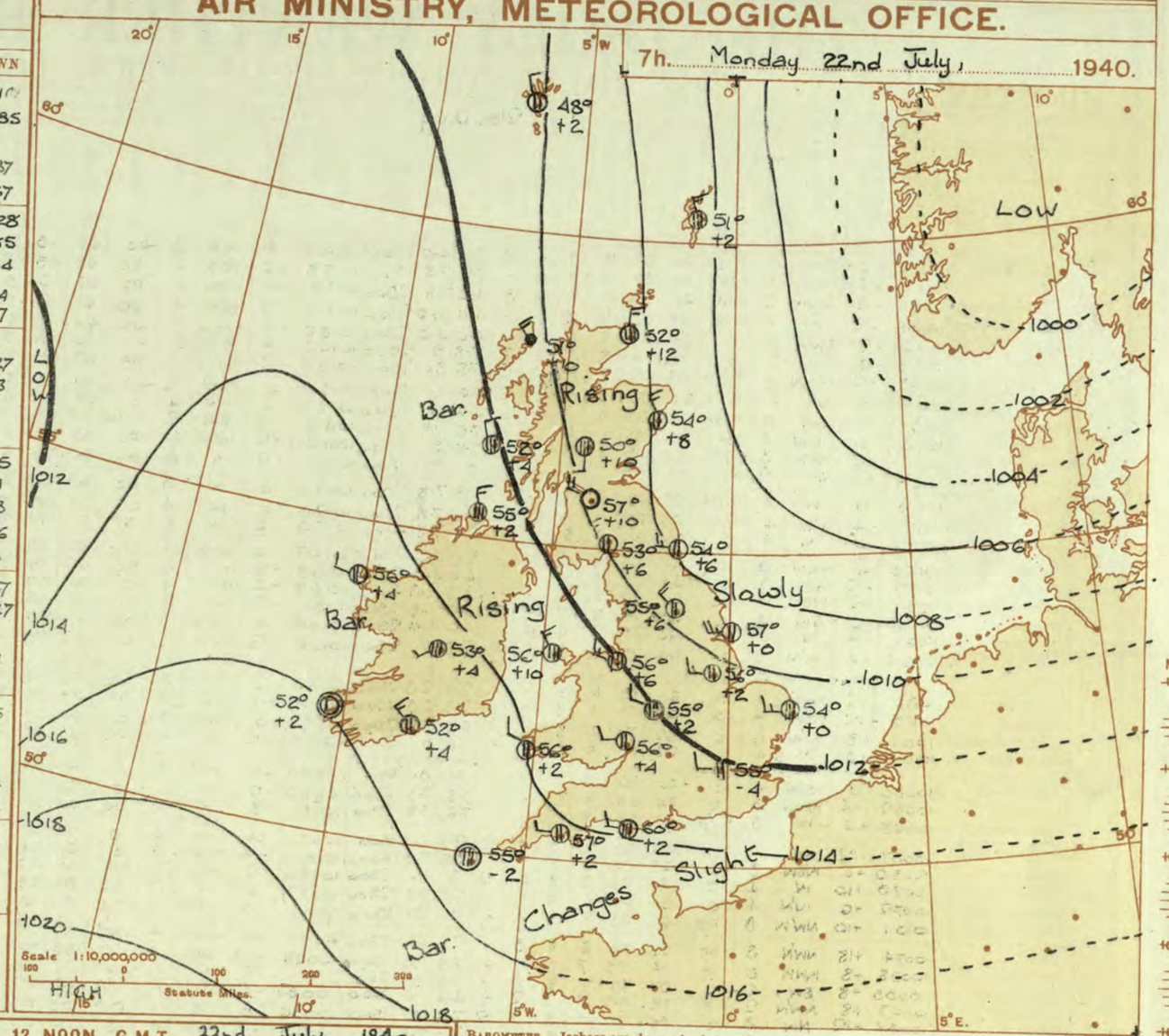
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 22nd July, 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 21st July			18h. G.M.T.			01h. G.M.T. 22nd July			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 82	81645	26488	87	02936	14167	6-	10538	06351	81	10845	32310
115 56	01844	28565				52	81725	24368	52	02934	02385
203											
206 57	25864	24264	57	02854	23387	53	02851	00025	53	02856	32187
210			87	25844	22486	57	51846	30427	57	22956	30267
220 83	25844	20385							52	02845	25428
230 3-	81688	20488	8-	02957	24487	5-	52748	26368	80	01854	24385
245 87	63854	24365	3-	82737	12287	50	01864	26364	84	01953	27354
260 84	02954	24415	44	02855	24416	57	01854	24215	87	01753	24214
277 86	81937	24387	86	01955	23185	50	00851	27401	54	02855	27427
279											
285									2-	02737	28527
288 3-	01854	24425	84	02855	24315	50	01863	18213	74	00862	26213
273											
301 20	02855	874.25	86	02864	26415						
321 86	05654	24386	70	01753	24313				83	05654	24315
299			8-	01745	24385	5-	01744	24314	80	01744	24314
292 3-	10944	24314	86	01954	56484	40	25763	24283	85	01853	25313
310									--	02636	24426
316 96	25644	22384	96	02844	26295	5-	01754	00081	5-	05664	22115
333 86	02855	24416	86	02865	24287	86	21954	24254	8-	02856	30327
334									--	02745	24227
340 8-	25945	20385	80	25945	20385	5-	02955	24325	8-	02964	25215
136 36	25754	22487	26	01853	23484	03	01850	20215	53	01732	21324
336									--	02854	28416
350			26	01864	25384				13	02751	24225
368						20	01853	22414	57	02675	28127
379			8-	02857	22417	03	01700	20314	57	02752	22216
390 37	25854	22384	36	02744	24485	5-	05654	22214	54	05653	24315
382			8-	01853	22403				51	05641	00015
438 80	02744	26614*							50	01863	24303
430 83	02855	22685	83	01864	22314						
409 8-	01854	24315	84	01954	24314	50	01854	25215	73	02954	16116

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



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. 22nd July 1940
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate northwest wind backing south tomorrow; bright periods, showers and local thunder today; some rain tomorrow; average temperature to rather cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light northwest wind backing south; bright periods and local showers today; cloudy, some rain later; average temperature.
7 North Wales ... 8 N.W. England	Moderate northwest wind backing south; bright intervals and showers today, some rain later; rather cool or average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Fresh northwest wind backing south; cloudy with showers today, some rain tomorrow; rather cool.
12 S.W. Scotland & Isle of Man. 13 {A. W. Scotld. B.N.W.Scotland.} 14 Mid Scotland	As 7-8
15 N. E. Scotland 16 Orkneys and Shetlands	Moderate northerly wind becoming variable finally southerly; cloudy occasional showers at first becoming fair tonight but some rain later; rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light northwest wind backing south and freshening, veering west to northwest later; fair today some rain tonight, bright intervals tomorrow; average temperature.

GENERAL INFERENCE.

A depression over Southern Norway is filling up. A wedge of high pressure off West Ireland will move eastwards across the country, and is likely to be followed by another depression. There will be bright intervals and showers in the east, with a chance of local thunder. In the west there will be long bright periods today, but rain is likely to reach Ireland tonight and to spread eastwards.

FURTHER OUTLOOK.

Showers or occasional rain in most districts.

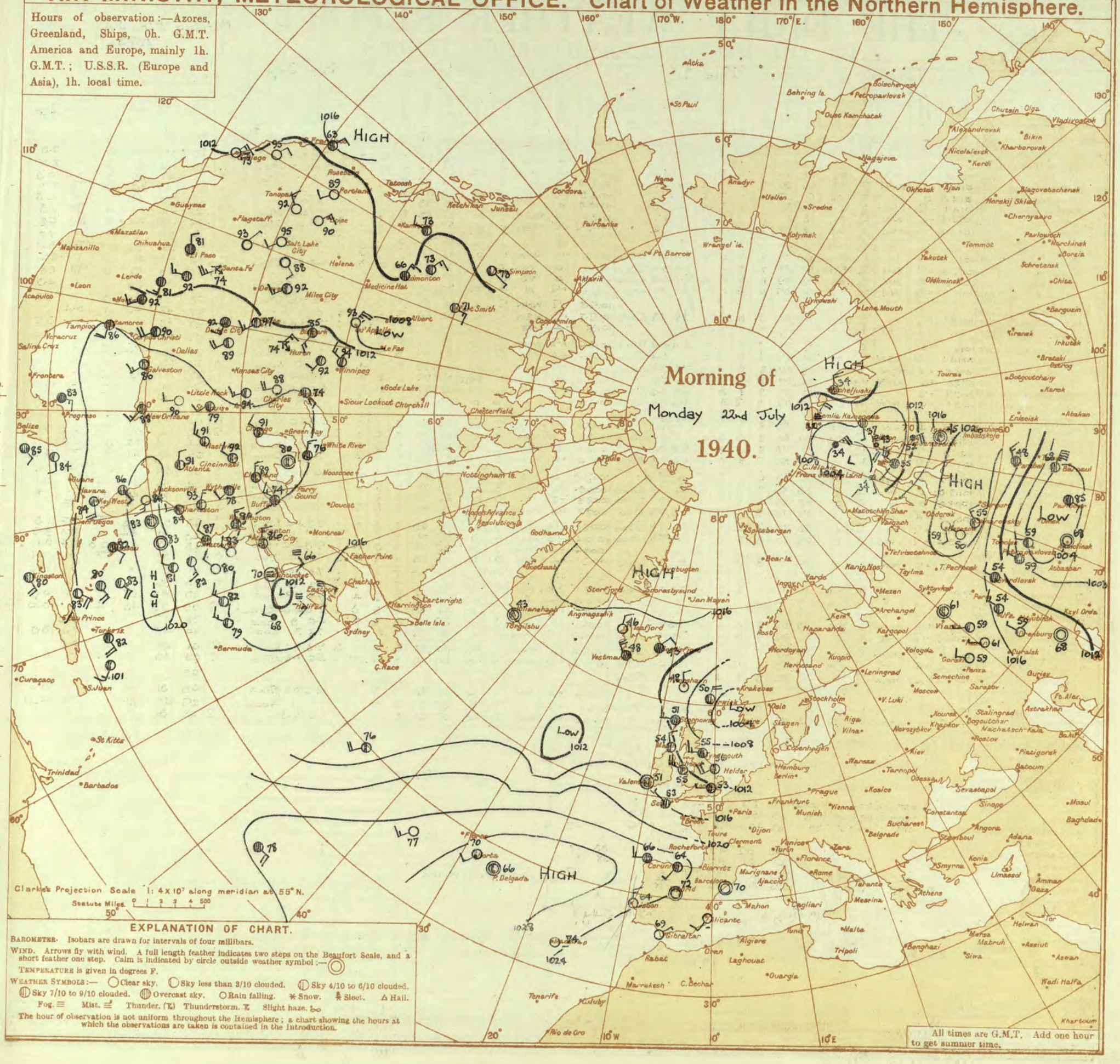
Forecasts issued at 10.30.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/2910. m. 8149. 0 3705. G. 948 (3403) E/40

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
Monday 22nd July 1940.
No. 28732

OBSERVATIONS at 1 hr. G.M.T. 22nd July

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	1013.4	+2	W'S	1	bc	53	85	7	-	3	-	0	4-6	-
	S. Farnborough	226	1013.7	-2	SW'W	2	bc	50	92	8	-	-	6	0	4-6	-
	Boscombe Down	417	1014.3	0	W	2	bc	51	97	8	-	7	1	0	4-6	-
	Calshot (Sthmtn.)	8	1014.1	-2	W'N	1	c	54	85	7	-	3	6	0	7-8	-
	Lympne ...	346	1014.4	-6	NW	2	bc	53	97	7	-	5	6	0	4-6	-
	Manston ...	154	1013.0	-2	W'S	2	bc	53	92	8	-	-	5	0	4-6	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1012.2	-2	W	3	bc	60	75	8	5	4	-	4-6	4-6	5700
	Gorleston ...	5	1012.0	-2	SW	2	c/pp	57	85	7	8	-	-	7-8	7-8	2500
	Mildenhall ...	19	1011.9	+2	SW	3	bc	53	92	8	8	6	6	2-3	4-6	4000
	Cranwell ...	240	1011.3	-2	W'S	2	c/p	54	92	6	5	-	-	9+	9+	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013.1	-2	-	0	c	52	97	7	5	4	-	7-8	7-8	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1014.1	-4		3	bc	57	92	8	5	.	9	4-6	4-6	2500
	Bristol ...	209	1014.1	-2	WSW	1	bc	54	92	8	2	3	6	1	4-6	2500
	Portland Bill ...	32	1014.6	+4	WSW	3	c	58	92	8	5	-	.	7-8	7-8	4000
	Plymouth ...	82	1015.1	-4	WNW	1	c	54	97	8	-	-	8	0	7-8	-
	The Lizard ...	240	1015.8	-8	-	0	bc	56	97	8	8	9	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1015.7	-6	NW'W	1	c	53	92	8	2	4	-	4-6	7-8	2500
	Guernsey ...	175														
6	Pembroke ...	142	1014.0	+4	NW	3	bc	57	85	8	1	7	-	1	2-3	2500
7	Holyhead ...	26	1012.3	+2	WNW	5	bc	55	85	8	5	3	6	1	4-6	2500
	Chester (Sealand)	16	1011.9	-2	W'S	3	c	57	75	8	5	5	-	2-3	9+	4000
8	Manchester ...	70	1011.3	-2	W'S	3	c	53	85	7	8	3	6	4-6	7-8	4000
10	Spurn Head ...	29	1010.2	0	WSW	4	bc	56	85	6	-	7	-	0	2-3	-
	Catterick ...	175	1009.5	-6	W	2	c	53	85	7	5	6	-	4-6	7-8	4000
	Tynemouth ...	108	1008.8	0	W	3	c	55	85	6	8	-	-	9	9	2500
11	St. Abbs Head	280	1007.0	+4	W	5	c	52	75	8	4	6	-	4-6	7-8	1500
	Leuchars ...	36	1007.1	+2	W	2	c/p	53	75	7	5	-	-	7-8	7-8	2500
12	Renfrew (Abbots I.)	19	1009.4	+2	W'S	3	c	52	85	8	5	3	-	7-8	7-8	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1011.3	+6	NW	4	c	55	92	8	5	-	-	9	9	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1010.2	+15	W	3	c/p	51	97	7	8	7	-	7-8	9+	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1006.4	+18	WNW	3	bc	48	92	8	5	4	1	2-3	2-3	1500
16	Lerwick ...	156	1006.3	+12	NE	4	c	50	92	8	5	7	-	7-8	9	1500
17	Blacksod Point	18	1014.1	+2	WNW	2	c	53	92	7	5	-	-	9	9	800
18	Malin Head ...	84	1012.6	+4	N'W	2	bc	54	75	8	2	-	-	4-6	4-6	5700
	Aldergrove ...	268	1012.4	+4	NWW	2	b	51	92	8	8	4	-	Tr	1	2500
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1015.8	-4	-	0	c	51	92	9	5	7	6	4-6	9+	2500
	Roches Point	22	1014.9	-4	NW	3	bc	54	85	8	-	3	-	0	4-6	-

OBSERVATIONS at 7 hr. G.M.T. 22nd July — 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 21st Hrs. (36)
London (Kew)	1013.0	+4	WSW	2	c	56	85	7	2	7	6	Tr	9+	1500	1	*	69	52	43	10	-	9.5
Croydon	1012.9	-4	W	2	bc	55	85	7	2	7	2	4-6	4-6	2500	1	*	69	50	41	3	-	8.9
S. Farnborough	1012.9	+2	W	2	c	54	92	8	1	7	6	2-3	7-8	2500	1	*	70	47	39	3	-	10.3
Boscombe Down	1013.3	+2	-	0	c	52	97	8	-	.	4	0	7-8	-	1	*	67	47	36	1	Tr	9.7
Calshot (Sthmtn.)	1013.5	0	W	2	c	57	85	8	-	-	6	0	7-8	-	1	1	67	50	45	1	-	10.8
Lympne	1013.7	-4	NW'W	2	bc	54	85	8	2	-	2	Tr	4-6	2500	1	§ *	63	49	44	4	Tr	7.3
Manston	1012.2	-2	WNW	3	c	57	85	7	2	-	2	Tr	9	2500	1	*	66	48	44	2	0.3	6.8
Shoeburyness	1012.5	+8	W'S	1	c	59	75	6	-	-	2	0	7-8	-	0	*	68	52	47	1	-	7.7
Felixstowe	1011.8	+2	WNW	3	c	57	85	7	-	3	2	0	9+	-	1	2	70	54	51	0.2	Tr	5.9
Gorleston	1011.1	0	W	3	c	54	92	7	5	3	-	4-6	9+	2500	1	2	66	52	49	3	1	6.2
Mildenhall	1011.3	0	W'S	3	bc	57	92	7	-	5	1	0	4-6	-	1	*	66	49	45	3	Tr	5.8
Cranwell	1011.1	+2	W	3	bc	56	85	7	5	4	1	1	2-3	5700	1	*	67	52	50	1	1	4.9
Birmingham	1012.8	+2	WNW	2	c	55	85	8	7	-	2	4-6	7-8	2500	1	*	65	53	48	3	-	7.8
Upper Heyford	1012.7	+2	WSW	1	c	55	85	7	-	4	4	0	9	-	1	*	67	48	40	1	0.4	*
Ross-on-Wye	1013.1	+4	W'S	2	bc	56	85	8	8	5	2	Tr	4-6	2500	1	*	68	49	40	2	1	5.2
Hartland Point	1013.6	+2	WNW	2	bc	59	75	9	2	4	-	2-3	4-6	2500	0	3	62	56	52	0.2	-	12.6
Bristol	1013.4	+4	W	2	c	57	92	8	5	4	8	1	7-8	2500	1	*	65	51	40	2	-	11.2
Portland Bill	1013.8	+2	W	2	c	60	85	8	2	4	-	4-6	9	4000	1	3	61	55	*	-	-	*
Plymouth	1014.6	+2	W	1	bcjf	57	92	6	5	3	6	Tr	4-6	<150	0	1	(65)	47	43	-	-	10.2
The Lizard	1014.6	+4	-	0	bc	55	97	8	8	6	-	4-6	4-6	4000	0	2	64	51	*	-	-	13.5
Scilly (St. Mary's)	1014.6	-2	—	0	c	55	92	8	1	3	.	1	9	2500	0	1	65	53	*	-	-	12.6
Guernsey																						
Pembroke	1013.6	+2	NW	2	bc	56	85	8	7	7	-	2-3	4-6	2500	1	1	60	52	*	-	-	12.5
Holyhead	1013.1	+10	NW'N	3	c	56	75	8	8	3	2	4-6	7-8	1500	1	2	63	54	52	Tr	0.4	7.5
Chester (Sealand)	1012.4	+6	WNW	3	c/pp	56	85	8	8	5	1	9	9+	4000	1	*	64	54	48	5	0.3	3.1
Manchester	1011.6	+6	WNW	3	c	55	75	8	8	3	4	2-3	7-8	2500	1	*	65	49	41	8	Tr	8.2
Spurn Head	1009.3	0	W'S	5	bc	57	85	7	-	4	-	0	4-6	-	0	3	68	54	*	0.2	-	5.6
Catterick	1009.9	+6	NW'W	3	bc	55	75	9	5	4	4	1	2-3	4000	1	*	66	50	47	Tr	-	11.1
Tynemouth	1008.8	+6	W	3	bc	54	75	8	8	-	-	4-6	4-6	2500	1	1	66	50	48	0.3	-	*
St. Abbs Head	1007.7	+10	WNW	5	[illegible]	51	92	8	5	2	-	7-8	9+	1500	1	3	61	51	*	-	Tr	*
Leuchars	1008.5	+14	WNW	3	bc	56	65	8	5	7	-	2-3	4-6	2500	0	*	65	51	46	Tr	Tr	4.5
Renfrew (Abbots I.)	1010.4	+10	WNW	4	b	57	75	8	8	-	5	1	1	4000	1	*	63	49	44	1	Tr	3.2
Eskdalemuir	1009.6	+6	NW'N	3	bc	53	75	8	5	3	1	2-3	4-6	1500	1		63	48	43	0.3	0.4	9.1
Point of Ayre	1011.9	+4	NW	5	bc	55	85	8	2	4	6	2-3	4-6	1500	0	3	66	53	*	Tr	-	10.1
Tiree	1012.1	+4	NW'N	2	c/pp	52	92	7	8	-	-	7-8	7-8	1500	1	2	61	51	*	-	1	15.6
Stornoway	1010.9	+10	NW	3	id	51	92	7	5	2	.	7-8	10	1500	1	2	55	50	*	3	1	1.0
Dalwhinnie	1010.5	+10	S	1	c	50	85	8	2	4	-	7-8	7-8	1500	1	*	59	49	37	2	3	0.9
Aberdeen	1007.7	+8	NW'N	3	bc	54	85	8	5	3	1	2-3	4-6	1500	1	2	59	50	49	4	1	0.0
Wick	1008.1	+12	N	3	c	52	85	8	8	7	1	4-6	9	1500	1	1	58	47	*	1	0.6	*
Lerwick	1006.7	+2	NNW	3	c	51	92	8	8	7	-	7-8	9	800	0	*	60	47	*	0.1	0.5	5.9
Blacksod Point	1014.4	+4	WNW	2	bc	56	85	8	5	5	9	2-3	4-6	800	0	2	61	51	*	0.1	0.3	*
Malin Head	1012.5	+2	N'W	3	c	55	65	8	2	7	-	4-6	7-8	5700	0	2	59	49	*	1	-	5.0
Aldergrove																*	65			2		
Birr Castle	1014.6	+4	SW	1	c	53	85	8	5	3	-	4-6	7-8	2500	1	*	65	51	49	5	-	9.0
Valentia Obsy.	1016.1	+2	-	0	b	52	92	9	7	-	-	1	1	4000	0	1	62	45	41	-	Tr	12.9
Roches Point	1015.4	+4	NW	3	bc	52	85	8	-	3	-	0	2-3	-	1	2	68	51	*	-	-	*

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	bprtlrR	bcy	bcbbcw	69	52	43	10	-	9.5	*	*	8
Croydon	217	bccprtlq	prbcy	bbc	69	50	41	3	-	8.9	*	*	7
Greenwich (Royal Observatory)	149	crp	ctlrb	bc	69	50	41	2	-	7.6	69	67	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	69	52	48	5			93	77	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	68	51	49	10	-		68	71	*
Camden Square	110	bc	bc	*	69	51	47	7	-	*	*	67	*
Kensington	80	bcp	bcp	*	70	51	46	4	Tr				*
Hampstead Observatory	450										*		*

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.
0.1	whole period		

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 21st July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 22nd July 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

Tuesday 23rd July 1940.

No. 28733

OBSERVATIONS at 13h. G.M.T. 22nd July

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)	1013·3	0	W'N	3	c	67	45	8	8	3	-	4-6	9	2500
	Croydon	1013·2	-2	WNW	2	c	66	55	8	2	6	-	4-6	7-8	4000
	S. Farnborough	1013·4	+6	W	3	bc	67	45	8	8	6	-	4-6	4-6	4000
	Boscombe Down	1013·8	+2	W'N	3	bc	66	45	8	2	-	-	4-6	4-6	5700
	Calshot (Soton.)	1013·8	+2	SW'W	4	c	65	75	8	2	-	5	4-6	7-8	4000
	Lympne	1013·6	-2	W	2	c	64	55	9	2	7	-	4-6	7-8	2500
	Manston	1012·8	+2	WNW	3	c	69	55	8	1	3	2	4-6	7-8	4000
2	Shoeburyness	1012·8	-2	W'N	2	c	65	55	8	8	8	-	7-8	9+	2500
	Felixstowe	1012·2	+2	W'S	3	c	65	65	8	2	3	-	2-3	9	4000
	Gorleston	1011·6	+6	NW	3	c	64	65	7	8	-	-	9	9	2500
	Mildenhall	1012·0	+2	W	4	c	66	65	8	8	-	1	9	9	4000
	Cranwell	1012·3	+10	NW	3	c	61	55	7	5	7	-	9+	10	4000
3	Birmingham	1013·2	+8	NW	3	c	62	55	8	7	-	-	7-8	7-8	4000
	Upper Heyford	1013·2	+4	W	3	c	64	65	9	8	4	-	9	9	2500
4	Ross-on-Wye	1013·3	0	W'N	2	c	64	55	9	2	-	-	7-8	7-8	4000
5	Hartland Point	1015·3	+4	WNW	2	bc	62	75	9	1	4	-	2-3	4-6	2500
	Bristol	1014·1	+2	W	3	bc	65	65	8	2	-	-	4-6	4-6	4000
	Portland Bill	1014·6	+12	SW	2	bc	60	85	8	5	-	-	4-6	4-6	4000
	Plymouth	1015·1	-2	SW	2	bc	63	75	8	2	-	1	4-6	4-6	2500
	The Lizard	1016·2	+8	W	3	bc	63	75	8	8	4	-	4-6	4-6	4000
	Scilly (St. Mary's)	1016·3	+6	N	2	bc	61	75	8	8	4	2	4-6	4-6	2500
	Guernsey														
6	Pembroke	1015·6	+4	S'E	6	bc	59	85	8	2	3	-	2-3	2-3	2500
7	Holyhead	1014·9	+10	WNW	2	c	58	75	9	7	3	-	2-3	7-8	2500
	Chester (Sealand)	1014·2	+10	NW	4	c	60	58	8	1	3	8	4-6	7-8	4000
8	Manchester	1012·7	+10	W'N	3	c	60	65	8	2	7	-	2-3	9	2500
10	Spurn Head	1011·6	0	N	2	c	65	65	7	2	-	-	7-8	7-8	1500
	Catterick	1010·9	+2	NW'W	2	c	64	55	9	8	-	5	7-8	9	5700
	Tynemouth	1011·2	+12	NNE	4	bc	57	75	8	2	3	-	4-6	4-6	2500
11	St. Abbs Head	1010·7	+12	N	3	bc	57	75	9	8	6	-	2-3	4-6	1500
	Leuchars	1010·4	+12	E	3	c/pr	61	69	8	2	7	-	4-6	7-8	1500
12	Renfrew (Abbots I.)	1011·3	+12	W'N	4	bc	64	65	9	8	6	4	4-6	4-6	4000
	Eskdalemuir	1010·9	+6	NW'W	3	c	59	65	5	8	-	-	9+	9+	7200
	Point of Ayre	1013·7	+8	WNW	4	c	63	75	8	2	7	6	Tr	7-8	2500
13A	Tiree	1012·7	+4	NW'N	3	bc	58	75	8	7	4	1	2-3	2-3	4000
13B	Stornoway	1012·1	+4	NW	3	c	54	75	9	5	7	-	4-8	10	2500
15	Dalwhinnie	1011·5	+8	NNW	2	iro	53	92	6	5	-	-	10	10	800
	Aberdeen	1010·7	+12	N'W	3	c	59	65	8	1	3	1	7-8	7-8	2500
	Wick	1010·2	+8	NNW	3	c	55	92	8	5	3	8	4-6	9+	1500
16	Lerwick	1008·3	+12	NW'N	4	c	56	75	8	8	7	-	4-6	9	800
17	Blacksod Point	1015·3	+6	W	2	bc	60	65	8	2	4	-	2-3	4-6	1500
18	Malin Head	1014·1	+8	WNW	3	bc	57	75	8	2	6	1	2-3	4-6	5700
	Aldergrove	1013·9	+6	N	2	pr	60	65	9	8	3	-	9	9+	2500
19	Birr Castle	1024·9	+2	NNW	1	c	62	85	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy. †	1016·9	+4	W	3	bc	61	75	9	2	3	4	2-3	4-6	4000
	Roches Point	1016·2	+4	WSW	2	c	60	75	9	8	-	-	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 22nd July

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)	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)	1013·5	+2	N	3	c	67	45	8	8	-	-	7-8	7-8	2500	1	*
Croydon	1013·3	+2	WNW	2	bc	67	55	8	2	6	-	4-6	4-6	4000	0	*
S. Farnborough	1013·5	0	NE	2	bc	68	45	8	8	6	-	4-6	4-6	4000	0	*
Boscombe Down	1013·7	-4	WNW	3	bc	66	55	8	2	-	-	4-6	4-6	4000	0	*
Calshot (Soton.)	1013·9	0	SW'W	4	bc	65	75	8	2	3	1	2-3	2-3	4000	1	3
Lympne	1013·9	0	WSW	3	bc	66	65	8	2	4	-	4-6	4-6	2500	0	§ 3
Manston	1013·0	+2	NW	3	bc	67	55	7	2	3	9	2-3	4-6	4000	0	*
Shoeburyness	1013·3	+4	NW	2	b	66	55	8	2	4	-	Tr	1	4000	0	*
Felixstowe	1012·7	+2	NW'N	3	c	67	55	7	8	7	-	2-3	7-8	4000	1	1
Gorleston	1012·8	+6	NW'N	2	c	64	65	7	5	3	-	4-6	9	2500	0	1
Mildenhall	1012·9	+4	NW	2	c	63	85	7	8	6	-	7-8	7-8	4000	0	*
Cranwell	1013·0	0	NW	3	bc	63	65	7	8	4	-	4-6	4-6	4000	0	*
Birmingham	1013·8	+4	NW	3	bc	63	55	8	7	-	-	2-3	2-3	4000	1	*
Upper Heyford	1013·6	+4	NNW	3	c	65	65	9	8	6	-	4-6	7-8	4000	1	*
Ross-on-Wye	1014·0	+4	WNW	3	bc	66	55	9	2	-	1	2-3	2-3	4000	1	*
Hartland Point	1015·5	0	WNW	2	bc	59	85	9	4	-	1	2-3	2-3	2500	0	2
Bristol	1014·6	+4	W	4	bc	63	75	8	8	-	-	2-3	2-3	4000	1	*
Portland Bill	1015·4	+12	SW	2	bc	60	85	8	5	4	-	4-6	4-6	4000	1	3
Plymouth	1015·3	0	NNW	3	c	63	55	8	2	3	-	4-6	7-8	4000	0	2
The Lizard	1016·3	+2	W	2	bc	61	65	8	8	4	-	2-3	4-6	2500	0	1
Scilly (St. Mary's)	1016·8	+2	N'W	2	bc	62	65	8	8	4	4	2-3	4-6	2500	0	1
Guernsey																
Pembroke	1016·3	+2	NW	1	bc	59	85	8	7	7	-	2-3	2-3	2500	0	1
Holyhead	1014·9	0	SW	3	bc	59	65	9	8	4	-	4-6	4-6	4000	1	2
Chester (Sealand)	1014·8	+4	NW	3	b	60	45	8	2	3	-	Tr	1	4000	1	*
Manchester	1014·0	0	WNW	3	bc	60	65	8	1	4	-	2-3	2-3	4000	0	*
Spurn Head	1012·9	+2	N	1	bc	59	75	8	2	-	5	4-6	4-6	1500	0	2
Catterick	1012·9	+8	NNW	1	pr	60	75	7	8	6	-	7-8	9+	2500	1	
Tynemouth	1012·4	+8	NE	2	c/pr	57	85	8	8	-	-	9	9	4000	1	1
St. Abbs Head	1011·7	+2	S	2	iro	54	85	8	6	2	-	4-6	10	1500	0	1
Leuchars	1011·8	+18	ESE	1	c/ro	56	85	8	5	2	-	7-8	9+	1500	1	*
Renfrew (Abbots I.)	1012·1	+2	NW'W	4	bc	59	65	9	7	4	1	2-3	2-3	4000	1	*
Eskdalemuir	1011·4	+4	NW'W	3	bc	59	65	8	8	-	1	2-3	2-3	2500	1	*
Point of Ayre	1014·1	0	WNW	3	bc	61	75	8	2	4	1	1	2-3	2500	0	2
Tiree	1013·3	0	NW	2	c	56	65	9	7	3	-	4-6	7-8	4000	0	2
Stornoway	1012·7	0	NW	3	c/r	54	65	9	5	7	6	7-8	7-8	2500	1	3
Dalwhinnie	1012·6	+8	NW	1	c	52	85	8	4	4	-	7-8	9	1500	1	*
Aberdeen	1011·8	+6	S	1	iro	54	85	7	6	7	-	2-3	9+	1500	1	2
Wick	1011·0	+8	NW	3	c	53	75	8	5	6	8	7-8	10	800	1	1
Lerwick	1010·1	+2	NW	3	c	53	65	8	8	3	-	4-6	7-8	800	0	*
Blacksod Point	1014·9	-4	SW	1	c	59	75	8	2	5	-	2-3	7-8	2500	0	2
Malin Head	1014·1	0	N'W	1	c	56	65	8	1	5	-	2-3	7-8	5700	0	1
Aldergrove	1013·9	+2	WNW	2	bc/pr	61	65	9	8	3	-	2-3	2-3	2500	1	*
Birr Castle	1014·5	-2	NNW	1	bc	66	45	8	5	-	-	2-3	2-3	2500	1	*
Valentia Obsy. †	1015·5	-16	SW'W	3	bc	62	75	9	1	3	2	1	4-6	4000	0	1
Roches Point	1015·6	-4	SW	2	c	59	75	9	8	-	-	7-8	7-8	1500	0	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 22nd (37)	13h.—18h. 22nd (38)	18h. 22nd to 1h. 23rd (39)	1h.—7h. 23rd (40)
London (Kew)	cwcy	cybcy	bcyc	cz
Croydon	cbccy	cybcy	bcd	cmo
S. Farnborough	cbcy	bcy	bccw℧	cmwmo℧
Boscombe Down	bccbcy	bcy	bc	cmo
Calshot (Soton.)	bcc	bc	bbcbcm	bcmocmo
Lympne	bccy	bcyc	ccw	cwbccmo
Manston	bc	c	byemo	cmocmow
Shoeburyness	bczocy	cyby	bcc	ccmo
Felixstowe	ccy	cybcy	bcybmo	cmo
Gorleston	cbcc	cbcc	cbcbzo	bbczowc
Mildenhall	bcc	cbcc	bcfg	bmowcmow
Cranwell	b, bcmocy	zocybc	bcbmo	bbcmoc
Birmingham	bc	bc	b	bmcw
Upper Heyford	cbcc	cbc	cbc℧	cmo
Ross-on-Wye	bcv	cvybcvy	bvbcbw	bcc
Hartland Point	bc	bc	bcc	cir
Bristol	cbc	bc	bbcc℧	cw
Portland Bill	cbc	bcbc	c	c
Plymouth	jfcbc	bccy	pcbc	ocroro
The Lizard	bc	bc	bccw	cprc
Scilly (St. Mary's)	bccbc	bccbc	bcc	croro
Guernsey				
Pembroke	bc	bc	bccw	c
Holyhead	bcproc	bc	bcwc	c⊕
Chester (Sealand)	bccbcy⊕	bcby	bybmow	bbccmmow
Manchester	c	cbc	bmobffw	bffwcmo
Spurn Head	bcc	c	cb	bc
Catterick	bbccy	cycpro	bcb	bwbcc
Tynemouth	bcc	bccpo	cpobc	bc
St. Abbs Head	croc	ciro	c	c
Leuchars	cbc	bcPRcroro	cirocirmio	bccmoc
Renfrew (Abbots I.)	bw, cbc	bcyc	bcbw	bbcwfg
Eskdalemuir	bcc	cybc	bcb	bbc
Point of Ayre	bcc	bc	bbccw	bc
Tiree	cbc	bc	c	c
Stornoway	cid	bc	c	c
Dalwhinnie	ciroo	ciro		cbc
Aberdeen	proc	ciro	iroc*	c
Wick	c	c	cproc	c
Lerwick	cpr	c	cbccpr	cpr
Blacksod Point	bc	bc	c	c
Malin Head	bcc	bcvc	bc	c
Aldergrove	cidoc	cprobc	jpbcbw	bwvc
Birr Castle	c	cbcy	bcb	c
Valentia Obsy. †	bbcv	bcv	bcvc	cidoirod
Roches Point	bcc	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/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.*

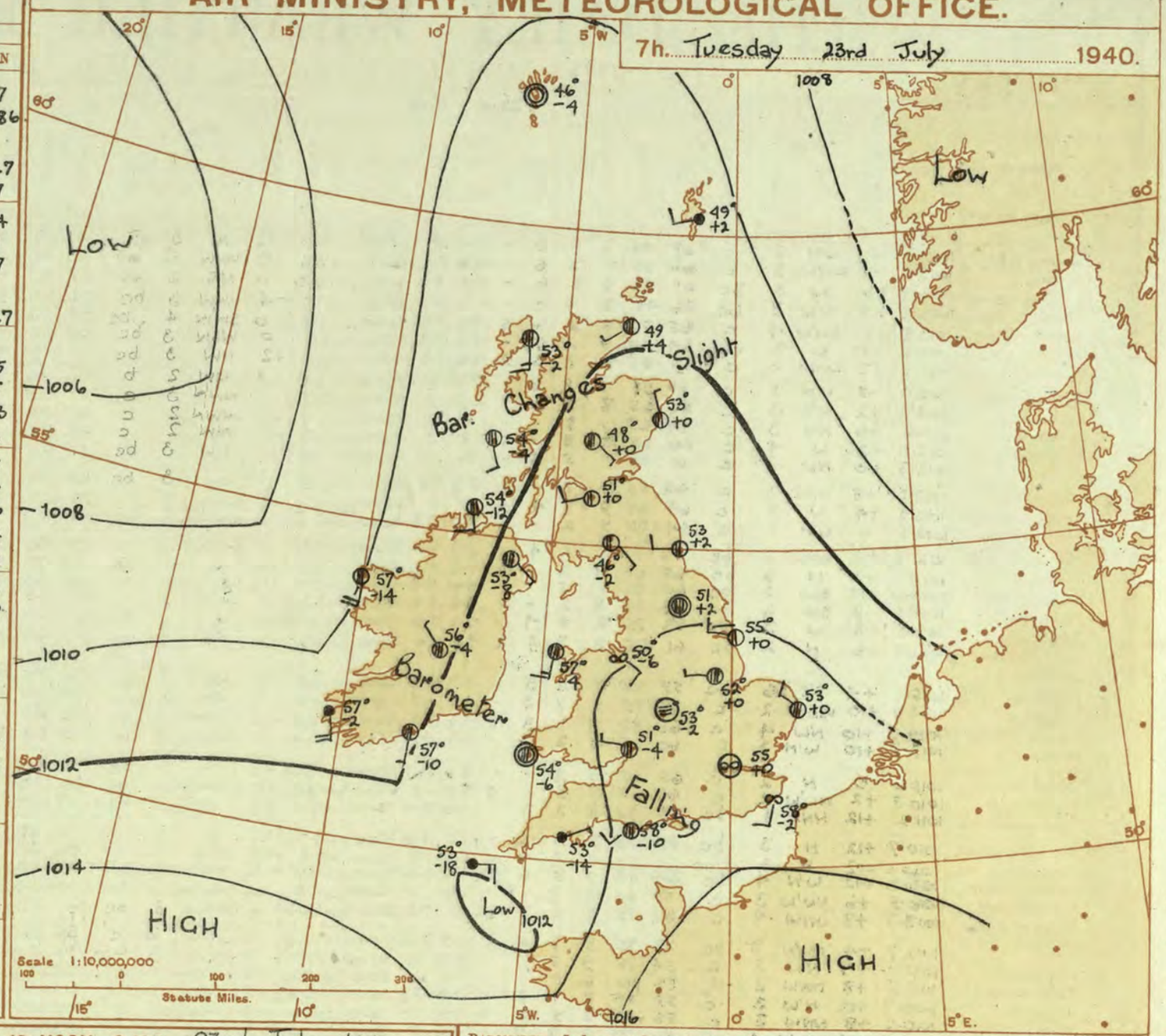
Abridged observations of additional stations in the
AVIATION WEATHER CODE

13h. G.M.T. 22nd July			18h. G.M.T.			01h. G.M.T. 23rd July			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 7-	02955	31315				57	02864	24185	7-	03967	27127
115 87	09834	04227	76	02944	28385	87	02944	24385	87	02944	24386
203											
206 87	81847	18187	87	02945	00087	8-	02867	24327	5-	02977	20227
210 83	01854	31125	9-	81747	20187	5-	02867	00017	5-	02967	21127
220											
230 86	01953	25414	46	01968	26418	5-	02857	26127	17	01952	18314
245 83	02965	02326	52	81856	12287	6-	65758	00088	74	02952	10115
260 83	01864	22314	87	25854	26186	--	05690	00000	8-	02857	32167
277 14	01955	27425	16	01951	30413	07	01890	04124	55	02961	04127
279											
285			23	25844	30586				7-	02845	24415
288 86	05654	26315	87	02756	17227	4-	00761	20111	03	01890	21215
273									17	01862	08203
301 20	01854	28425	24	00863	26303	53	01763	26215	04	05590	14216
328 86	05655	39327				00	05590	24100	00	05590	22105
299			57	01743	32314	51	01662	00012	57	01754	26114
292 8-	10945	26315	86	25954	00085	03	01890	00014	03	02890	00016
310 --	02636	26326	--	01633	26313				--	01654	26214
316 23	02763	24326	10	00651	26213	00	05690	00000	00	05590	24127
333 13	02952	28286	44	01961	28214	57	02975	00026	51	02963	18328
334 --	02856	22227	--	01864	26214					02790	00027
340 24	01954	28314	70	01962	31312	00	00790	00003	07	05690	17218
136 23	05663	23417	23	05661	26225	03	04690	00022	00	05690	26127
336 --	02853	28414	--	01862	28412					03841	28418
350 26	01753	25225	26	01863	26114				51	05674	06228
368 20	01952	24323	26	01962	24412	01	02890	24127	52	61663	08228
379 83	02855	28215	88	02754	30125	50	05653	06313	52	05665	08228
390			40	01764	28314				57	05673	03128
382 8-	02855	26325	86	01864	22214	00	00790	00002	52	05676	00028
438 86	01763	24414							50	02767	23317
430 23	01864	20415	26	00862	22412				82	05653	00028
409 54	01954	30314				57	02852	12118	57	22842	08267

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 23rd July 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. 23rd July, 1940.
1 S.E. England	Light to moderate SE wind, veering SW to W; cloudy; rain at times; average temperature
2 E. England ...	Light S to SE wind; mainly cloudy, some rain later; average temperature.
3 E. Midlands ...	
4 W. Midlands ...	Light variable wind becoming SW; cloudy; occasional light rain or drizzle later; average temperature
5 S.W. England	
6 South Wales ...	Moderate east or variable wind becoming SW; cloudy; some rain or drizzle; coast and hill fog; average temperature
7 North Wales ...	As 4.
8 N.W. England	Light S to SW wind; mainly cloudy; slight local rain or drizzle, more especially in west; average temperature.
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	Light or moderate S wind veering SW; cloudy; occasional rain or drizzle; average temperature.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

GENERAL INFERENCE.

A wedge of high pressure over Eastern Britain is moving east. A shallow depression is centred to North-west of Ireland, and a small secondary off the Southwest Coast is moving east-northeast. Weather will be cloudy generally with occasional slight rain in many districts, but more especially in the South

FURTHER OUTLOOK.

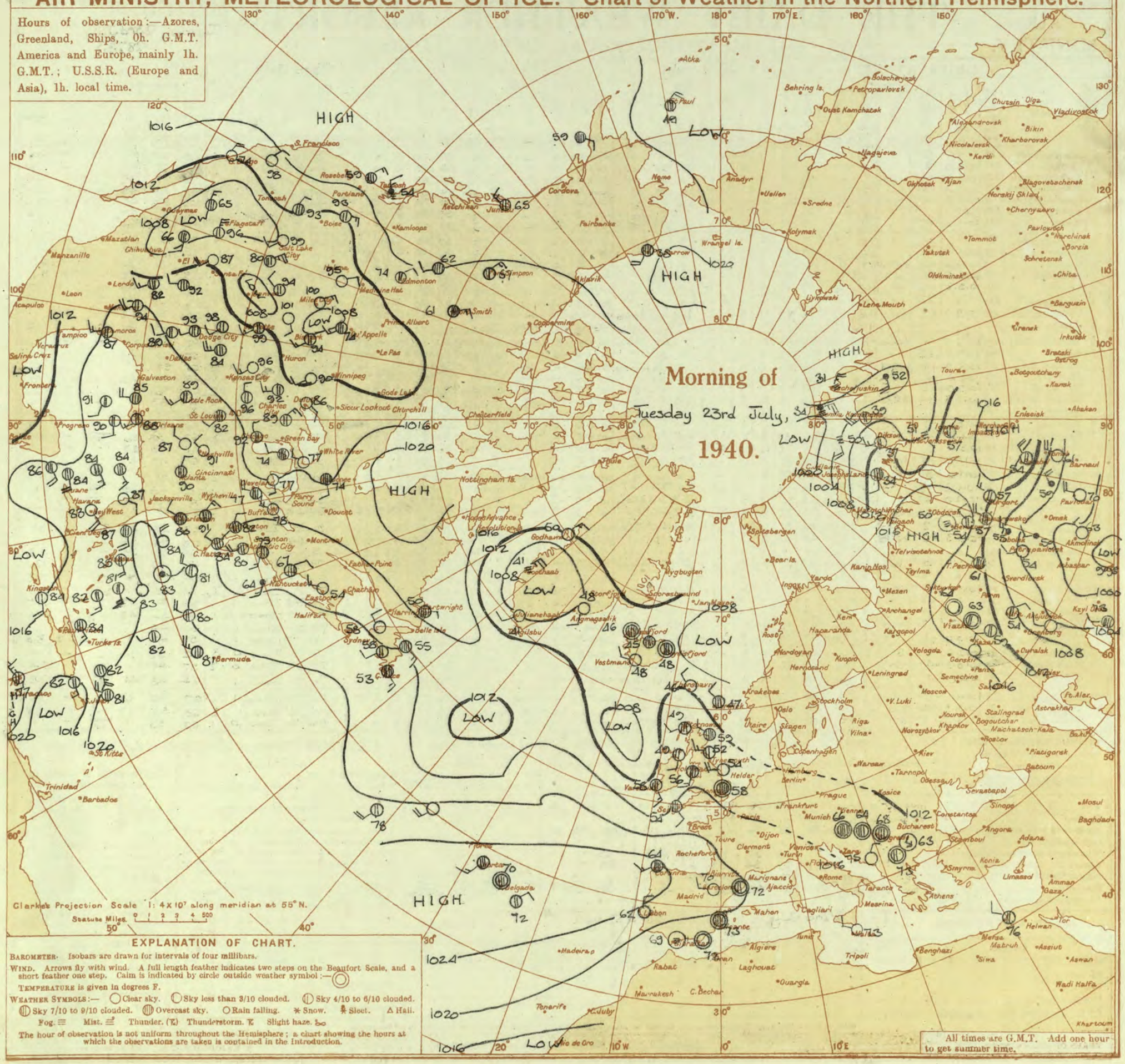
Continuing unsettled with further disturbances approaching from the West.

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.
C.04/5990. m. 8049. D. 3705. G. 948. (5800. 8/40.

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 23rd July 1940.
No 28,733

OBSERVATIONS at 1 hr. G.M.T. 23rd July

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	–	0	c	58	92	6	5	-	-	9+	9+	4000
	S. Farnborough	226	1015.2	+4	WN	1	c	53	92	8	-	3	7	0	10	-
	Boscombe Down	417	1015.4	+4	-	0	c	52	92	7	-	-	7	0	9	-
	Calshot (Sthmtn.)	8	1014.9	-2	NW	2	z	57	92	6	-	-	6	0	4-6	-
	Lympne ...	346	1015.7	+2	–	0	c	55	92	7	5	7	-	4-6	9	4000
	Manston ...	154	1015.0	+2	-	0	z	55	92	9	-	3	-	0	7-8	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1014.6	+2	-	0	z	57	85	5	-	3	-	0	9	-
	Gorleston ...	5	1014.6	+6	WNW	1	b	56	85	6	-	-	-	0	0	-
	Mildenhall ...	19	1014.9	+6	WN	2	fg	50	85	6	-	4	-	0	4-6	-
	Cranwell ...	240	1015.2	+6	W	2	z	49	85	6	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1015.3	+2	NNW	1	bc	52	85	7	5	7	-	2-3	4-6	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1015.4	-4	WNW	2	c	56	85	8	4	1	-	1	10	2500
	Bristol ...	209	1015.4	+2	-	0	c	51	92	8	-	-	8	0	9+	-
	Portland Bill ...	32	1014.9	-4	WSW	2	c	58	85	8	5	-	-	10	10	4000
	Plymouth ...	82	1015.9	-2	W	1	c	54	85	8	-	1	-	0	10	-
	The Lizard ...	240	1015.9	-10	-	0	c	53	92	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	163	1015.8	-14	SE'E	2	c	54	85	8	8	4	-	2-3	9	2500
	Guernsey ...	175														
6	Pembroke ...	142	1015.1	-2	-	0	c	55	97	7	5	2	-	7-8	9	2500
7	Holyhead ...	26	1014.3	-4	S'W	3	c	56	85	8	5	3	-	4-6	9+	4000
	Chester (Sealand)	16	1015.3	0	-	0	z	46	92	6	-	6	-	0	2-3	*-
8	Manchester ...	70	1015.2	+2	SSW	1	f+	43	97	2	-	-	-	0	0	-
10	Spurn Head ...	29	1014.0	0	W	4	b	54	85	8	-	-	-	0	0	-
	Catterick ...	175	1014.3	+8	-	0	b	46	92	8	-	4	-	0	Tr	-
	Tynemouth ...	108	1012.9	0	W	3	bc	52	85	7	8	-	-	2-3	2-3	2500
11	St. Abbs Head	280	1012.2	0	WNW	2	bc	53	75	8	4	6	-	2-3	4-6	1500
	Leuchars ...	36	1012.3	-2	-	0	bc/r	52	97	7	7	-	-	4-6	4-6	1500
12	Renfrew (Abbots I.)	19	1013.3	+2	WSW	2	b	46	85	9	-	-	-	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1014.7	0	W'S	2	c	47	97	8	7	-	-	9	9	4000
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1013.1	0	WSW	1	[illegible]	49	92	7	5	7	-	4-6	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1011.9	+2	NNW	2	c	47	92	8	5	7	-	7-8	9+	2500
16	Lerwick ...	156	1010.9	+2	NW	2	c/pr	47	85	7	8	7	-	4-6	7-8	800
17	Blacksod Point	18	1012.6	-8	S	2	c	56	92	8	5	-	-	9+	9+	1500
18	Malin Head ...	84	1013.9	-4	S'W	1	bc	49	85	8	7	-	2	2-3	4-6	5700
	Aldergrove ...	268	1014.3	-4	-	0	bc	46	92	8	5	-	1	Tr	2-3	2500
19	Birr Castle ...	173	1014.1	-6	WSW	1	b	49	92	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1013.3	-14	SSE	3	c	58	85	9	5	2	-	7-8	10	4000
	Roches Point	22	1014.3	-8	SW	2	c	56	85	8	8	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 23rd July

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1014.4	-6	NE	1	z	58	75	5	5	7	-	9	10	2500	1	*
Croydon	1014.3	0	-	0	z	55	85	6	5	7	-	4-6	10	4000	0	*
S. Farnborough	1014.4	-2	E	1	z	54	85	6	5	7	-	4-6	10	1500	0	*
Boscombe Down	1014.1	-2	ESE	2	z	54	92	6	5	7	-	4-6	10	4000	0	*
Calshot (Sthmtn.)	1014.0	-2	S'W	2	c	59	92	6	5	7	-	4-6	10	2500	0	1
Lympne	1015.3	-2	S'W	2	z	58	92	6	5	7	-	7-8	10	4000	0	§ 3
Manston	1014.0	-6	S	2	z	59	92	6	-	7	-	0	9+	-	0	*
Shoeburyness	1014.3	-2	N'E	1	c	57	85	6	-	7	-	0	9+	-	0	*
Felixstowe	1014.6	+2	N'E	1	z	56	85	6	-	7	7	0	10	-	1	1
Gorleston	1014.6	0	NW	2	c	53	92	6	5	-	-	9	9	2500	0	1
Mildenhall	1014.7	-2	N	1	z	52	92	6	5	1	6	2-3	9+	7200	0	*
Cranwell	1014.7	0	W	1	c	52	85	7	-	9	-	0	9	-	0	*
Birmingham	1014.8	-2	-	0	m	53	75	4	5	-	7	2-3	10	2500	1	*
Upper Heyford	1014.7	-2	W	2	z	53	85	6	5	1	-	7-8	10	4000	1	*
Ross-on-Wye	1014.4	-4	WNW	1	c	51	92	7	5	1	-	4-6	10	2500	1	*
Hartland Point	1012.9	-8	NNE	3	c/r	56	85	9	5	2	-	4-6	10	2500	0	2
Bristol	1014.4	0	-	0	z	54	85	6	5	7	-	4-6	10	7200	1	*
Portland Bill	1013.5	-10	SW	2	c	58	85	8	5	-	-	10	10	2500	1	2
Plymouth	1013.0	-14	ENE	1	r	53	92	8	5	7	-	1	10	2500	1	1
The Lizard	1012.7	-20	E	2	c	53	92	8	8	2	-	9	10	1500	1	2
Scilly (St. Mary's)	1012.1	-18	E	3	r r	53	92	8	9	2	-	7-8	9+	1500	1	2
Guernsey																
Pembroke	1013.2	-6	-	0	c	54	97	7	8	7	-	7-8	9	1500	0	1
Holyhead	1012.7	-4	SW	3	c	57	85	9	5	4	7	Tr	10	4000	1	2
Chester (Sealand)	1013.9	-6	SE	2	z	50	92	6	5	1	-	9	10	7200	1	*
Manchester	1014.2	-2	-	0	z	50	92	5	5	-	-	9+	9+	5700	1	
Spurn Head	1010.4	0	WNW	2	bc	55	85	7	-	-	4	0	4-6	-	0	2
Catterick	1013.6	+2	-	0	c	51	85	8	5	3	6	4-6	9	7200	1	*
Tynemouth	1013.2	+2	W	2	bc	53	75	6	-	3	-	2-3	2-3	4000	1	1
St. Abbs Head	1012.2	-2	NW	6	bc	50	65	9	5	4	4	2-3	4-6	1500	0	2
Leuchars	1012.1	-2	WSW	1	c	51	85	9	5	-	-	9+	9+	2500	1	*
Renfrew (Abbots I.)	1013.3	0	W'S	2	bc	51	85	8	-	3	6	0	4-6	-	1	*
Eskdalemuir	1013.3	-2	SE'S	1	bc	46	85	8	-	-	6	0	4-6	-	1	
Point of Ayre	1012.9	-4	S	2	bc	56	85	8	1	-	6	Tr	4-6	2500	0	1
Tiree	1011.3	-4	SSE	2	c	54	85	8	5	-	-	7-8	7-8	2500	0	2
Stornoway	1011.8	-2	S	3	c	53	85	9	5	7	-	Tr	9+	2500	1	2
Dalwhinnie	*	0	SE	1	c	48	75	8	2	-	1	7-8	7-8	2500	1	*
Aberdeen	1012.1	0	NNW	1	c	53	85	8	8	-	-	9	9	1500	1	1
Wick	1011.6	+4	SW	1	c	49	85	9	5	3	-	7-8	9+	2500	1	1
Lerwick	1010.9	+2	W'S	2	pr	49	85	8	8	7	-	4-6	7-8	1500	1	*
Blacksod Point	1009.9	-14	S	4	c	57	85	8	9	-	-	9+	9+	1500	0	3
Malin Head	1010.8	-12	S	2	c	54	85	8	5	-	-	7-8	7-8	5700	0	2
Aldergrove	1012.1	-8	-	0	c	53	85	7	5	-	1	9+	9+	4000	1	*
Birr Castle	1012.1	-4	NW	1	c	56	75	8	5	7	1	4-6	7-8	2500	1	*
Valentia Obsy.	1011.6	-2	S'E	4	id	57	97	8	5	-	-	10	10	1500	1	2
Roches Point	1011.9	-10	S	1	c	57	92	8	8	7	-	4-6	9+	2500	0	1

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 22nd Hrs. (36)
London (Kew)	69	55	46	–	-	10.1
Croydon	70	53	47	-	-	11.0
S. Farnborough	70	49	45	-	-	10.5
Boscombe Down	69	50	43	-	-	12.1
Calshot (Sthmtn.)	69	53	49	-	-	13.4
Lympne	66	54	47	-	-	11.4
Manston	69	54	44	-	-	12.0
Shoeburyness	71	53	46	-	-	11.6
Felixstowe	70	53	47	-	-	5.7
Gorleston	66	51	50	-	-	6.2
Mildenhall	68	45	38	-	Tr	9.5
Cranwell	65	47	45	-	-	7.9
Birmingham	65	48	33	*	-	10.3
Upper Heyford	68	51	42	-	-	*
Ross-on-Wye	67	48	40	*	-	10.2
Hartland Point	62	54	52	-	Tr	13.4
Bristol	67	50	42	-	-	12.1
Portland Bill	61	57	*	-	-	*
Plymouth	65	52	49	-	0.1	9.9
The Lizard	65	50	*	-	2	12.8
Scilly (St. Mary's)	65	53	*	-	3	9.6
Guernsey						
Pembroke	61	53	*	-	-	12.2
Holyhead	62	55	50	Tr	-	10.4
Chester (Sealand)	61	45	38	-	-	9.5
Manchester	62	39	35	-	-	9.3
Spurn Head	68	51	*	-	-	11.2
Catterick	66	43	39	Tr	Tr	8.1
Tynemouth	58	49	45	Tr	Tr	*
St. Abbs Head	60	47	*	-	1	*
Leuchars	63	49	45	3	6	3.7
Renfrew (Abbots I.)	65	40	33	-	-	12.0
Eskdalemuir	64	35	29	-	-	9.8
Point of Ayre	65	46	*	-	-	12.1
Tiree	64	43	*	2	-	7.3
Stornoway	56	49	*	0.4	-	1.5
Dalwhinnie	56	41	37	2	Tr	0.0
Aberdeen	60	50	48	0.3	3	3.4
Wick	56	44	*	-	Tr	*
Lerwick	58	46	*	0.3	0.2	8.0
Blacksod Point	62	53	*	-	-	*
Malin Head	57	44	*	-	-	8.4
Aldergrove	64	43	41	Tr	-	5.2
Birr Castle	67	46	43	-	-	9.6
Valentia Obsy.	63	56	53	-	1	13.3
Roches Point	62	53	*	Tr	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	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	cwcy	cybcy	bcye	69	55	46	-	-	10.1	*	*	6
Croydon	217	cb ccy	cybcy	bccm	70	53	47	–	-	11.0	*	*	6
Greenwich (Royal Observatory)	149	y	cy	c [illegible]	70	54	47	-	-	9.3	48	73	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	70	57	54	–		9.1	60	77	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	70	54	52	-	-		65	71	*
Camden Square	110	bc	bc	*	71	55	52	Tr	-	*	*	73	*
Kensington	80	bc	bc	*	71	55	50	-	-		50	69	*
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.
0.1	7h. 23rd	<0.1	22h. 22nd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 22nd July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 23rd July 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.

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 24th July 1940.

No. 28734

OBSERVATIONS at 13h. G.M.T. 23rd July

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)	1012·7	−8	SSW	2	c	64	75	7	5	1	–	7-8	10	2500
	Croydon	1012·6	−14	SSE	1	c/r	63	75	8	5	7	–	7-8	10	2500
	S. Farnborough	1012·1	−12	SE	3	c	63	65	7	7	7	–	4-6	10	4000
	Boscombe Down	1011·8	−10	SE'S	3	c	63	65	7	7	7	–	7-8	9+	4000
	Calshot (Soton.)	1012·3	−6	SE	3	c	64	65	8	5	7	–	4-6	9+	2500
	Lympne	1014·4	−6	SE'E	2	rr	58	85	7	6	2	–	4-6	10	1500
	Manston	1013·3	−10	SSW	3	r₀r₀	63	75	7	5	1	–	2-3	10	800
2	Shoeburyness	1013·2	−6	SSE	1	c	64	65	7	4	2	–	1	10	4000
	Felixstowe	1013·2	−10	SW'S	3	ir₀	65	75	6	5	2	–	4-6	10	4000
	Gorleston	1013·3	−12	E'N	2	c	62	75	6	5	–	–	10	10	2500
	Mildenhall	1012·6	−14	NNE	1	z₀	65	65	6	5	7	–	2-3	10	5700
	Cranwell	1012·6	+16	–	0	c	64	55	7	–	1	–	0	9	–
3	Birmingham	1012·1	−14	SE	2	b	64	45	8	1	3	5	Tr	1	4000
	Upper Heyford	1012·1	−16	NE	3	z₀	65	65	6	8	7	–	4-6	9	2500
4	Ross-on-Wye	1011·7	−14	W	1	bc	65	65	7	1	–	–	4-6	4-6	4000
5	Hartland Point	1012·0	0	N	2	bc	62	85	8	2	4	8	2-3	4-6	2500
	Bristol	1011·8	−10	SSE	1	bc	66	65	8	8	3	–	4-6	4-6	2500
	Portland Bill	1012·2	−8	S	2	c	62	85	8	2	4	–	4-6	9	4000
	Plymouth	1011·9	−2	SSW	2	bc	61	75	8	2	3	5	4-6	4-6	2500
	The Lizard	1012·1	+8	E'N	3	bc	62	65	8	8	6	–	4-6	4-6	2500
	Scilly (St. Mary's)	1013·4	+10	NW'N	2	bc	62	75	8	1	4	4	Tr	4-6	2500
	Guernsey														
6	Pembroke	1013·1	−4	W	1	bc	61	85	8	2	7	1	2-3	4-6	2500
7	Holyhead	1011·5	−10	SSW	4	c	62	55	9	2	3	6	1	7-8	4000
	Chester (Sealand)	1011·8	−14	ESE	2	c	67	55	7	2	3	3	2-3	7-8	4000
8	Manchester	1012·3	−16	SSW	2	bc	67	55	7	1	7	–	2-3	4-6	4000
10	Spurn Head	1013·2	−4	N'E	2	c	60	75	7	–	4	7	0	9+	–
	Catterick	1011·6	−16	S'W	1	c	63	65	8	8	1	6	7-8	10	5700
	Tynemouth	1012·7	−12	S	4	c	57	65	6	8	–	–	7-8	7-8	4000
11	St. Abbs Head	1011·3	−8	NW	3	bc	55	75	9	2	4	9	2-3	4-6	2500
	Leuchars	1011·5	−6	ESE	2	c	58	75	9	2	–	6	7-8	9+	2500
12	Renfrew (Abbots I.)	1010·9	−8	SW'W	3	c	64	55	8	7	3	–	4-6	9+	4000
	Eskdalemuir	1010·6	−10	SSW	3	c	60	65	8	7	7	–	2-3	7-8	4000
	Point of Ayre	1011·1	−12	S'W	3	c	59	85	8	8	4	–	4-6	7-8	2500
13A	Tiree	1008·7	−14	SE'S	4	c	56	85	8	5	–	–	9+	9+	4000
13B	Stornoway	1010·9	−12	S'E	2	c	57	75	9	5	7	–	7-8	9+	2500
15	Dalwhinnie	1011·4	−8	SW	1	c	58	55	8	2	–	1	9	9+	2500
	Aberdeen	1011·6	−10	SE'E	2	c	56	65	8	8	7	–	4-6	9+	2500
	Wick	1011·1	−4	ESE	2	c	53	75	8	8	7	8	4-6	9+	1500
16	Lerwick	1010·4	−4	WSW	4	c	53	75	8	8	7	–	4-6	7-8	1500
17	Blacksod Point	1008·4	0	SW	3	bc	61	85	8	3	6	–	2-3	4-6	800
18	Malin Head	1008·1	−14	S	3'	c	60	65	8	6	–	–	9	9	5700
	Aldergrove	1009·6	−18	S'W	3	c	65	55	9	8	7	6	7-8	9+	2500
19	Birr Castle	1009·7	−12	WSW	2	c	64	65	8	5	1	–	7-8	10	1500
20	Valentia Obsy. †	1011·8	+6	W'N	4	c	61	85	8	2	4	2	2-3	7-8	1500
	Roches Point	1011·9	−2	SSW	2	id₀	59	85	8	5	–	–	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 23rd July

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. (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)	1011·5	0	WSW	2	c	67	55	8	8	7	6	2-3	7-8	4000	1	*
	Croydon	1011·4	−2	SW'S	2	c	64	75	8	4	3	1	4-6	9	4000	0	*
	S. Farnborough	1011·5	0	WS	1	bc	66	55	8	2	3	9	4-6	4-6	4000	0	*
	Boscombe Down	1012·0	+6	WNW	2	c	64	75	8	8	7	1	4-6	9	4000	0	*
	Calshot (Soton.)	1012·0	0	SE'S	1	bc	64	75	8	4	3	9	2-3	4-6	4000	0	1
	Lympne	1012·8	−10	E'S	1	c/r	57	85	8	5	7	–	7-8	9	2500	1	§2
	Manston	1011·5	−8	SSE	1	c	60	85	8	5	9	2	1	9+	1500	0	*
2	Shoeburyness	1012·2	0	SSE	2	c	63	65	9	4	7	4	1	9	4000	0	*
	Felixstowe	1011·6	−6	S'W	3	c	64	75	8	1	7	6	1	9+	2500	0	1
	Gorleston	1012·0	−2	NWW	3	c	62	85	7	8	–	–	9+	9+	2500	0	1
	Mildenhall	1011·3	+2	SE	2	z₀	64	85	5	5	1	–	4-6	9	4000	0	*
	Cranwell	1011·5	+6	SSE	1	c	64	65	7	1	5	6	2-3	9	4000	0	*
3	Birmingham	1010·9	0	SSW	2	c	65	55	8	8	–	8	4-6	9	2500	0	*
	Upper Heyford	1011·9	+2	SSW	2	c	65	65	8	7	3	–	7-8	9+	4000	1	*
4	Ross-on-Wye	1011·7	+4	SW'W	2	c	64	65	7	5	–	–	9+	9+	4000	0	*
5	Hartland Point	1012·9	+4	W	3	bc	60	75	9	1	–	5	2-3	2-3	4000	0	2
	Bristol	1011·9	+2	W	2	bc	66	65	8	8	–	5	2-3	4-6	4000	0	*
	Portland Bill	1012·8	+6	W	2	bc	60	85	8	1	4	–	4-6	4-6	4000	1	2
	Plymouth	1013·2	+6	WS	1	bc	62	75	8	7	–	–	4-6	4-6	4000	0	1
	The Lizard	1014·0	+8	W'N	3	bc	61	75	8	7	4	–	4-6	4-6	2500	0	2
	Scilly (St. Mary's)	1014·8	+8	WSW	3	bc	62	75	8	8	4	5	1	4-6	2500	0	1
	Guernsey																
6	Pembroke	1011·3	0	W	3	c	59	85	8	5	7	1	2-3	7-8	2500	0	2
7	Holyhead	1010·5	+2	SSW	4	ir₀	58	85	9	5	7	–	2-3	9+	5700	1	3
	Chester (Sealand)	1010·8	−4	NW	3	c	63	65	8	7	5	–	7-8	9+	4000	0	*
8	Manchester	1010·6	−4	SW'W	2	c	66	55	7	8	7	–	7-8	9	4000	0	*
10	Spurn Head	1012·0	−2	E'S	3	c	58	85	6	4	5	–	4-6	7-8	2500	0	2
	Catterick	1010·6	−4	S'W	2	c	61	75	7	5	7	–	7-8	9+	4000	1	*
	Tynemouth	1011·6	−4	SSE	3	c	56	85	7	8	–	–	9+	9+	2500	1	1
11	St. Abbs Head	1010·3	−6	SSE	3	c/r	55	65	8	8	6	–	7-8	9+	1500	0	2
	Leuchars	1009·9	−6	SE	3	c	56	85	7	5	2	–	2-3	10	4000	1	*
12	Renfrew (Abbots I.)	1008·8	−10	S'W	3	c	62	65	9	5	7	–	4-6	9+	2500	0	*
	Eskdalemuir	1009·7	−8	SW'S	3	c/pr	58	75	8	5	7	–	9	9	2500	1	*
	Point of Ayre	1010·1	−6	S'W	3	ir	57	97	8	5	7	–	4-6	10	4000	1	2
13A	Tiree	1006·4	−10	S'E	4	c	58	85	8	5	–	–	7-8	7-8	2500	0	3
13B	Stornoway	1009·1	−10	E	4	pr	55	75	9	5	7	–	4-6	9+	2500	1	2
15	Dalwhinnie	1009·4	−8	SSW	1	ir₀	55	75	8	5	–	–	10	10	1500	1	*
	Aberdeen	1010·5	−6	SE	3	c	54	92	7	8	3	8	7-8	9	2500	1	1
	Wick	1009·7	−2	SE	3	c	54	75	8	5	7	8	4-6	7-8	1500	1	1
16	Lerwick	1010·6	+4	WSW	3	c	53	75	8	5	7	9	4-6	7-8	2500	0	*
17	Blacksod Point	1008·7	0	WSW	3	bc	60	75	8	3	–	–	4-6	4-6	1500	0	2
18	Malin Head	1007·4	−6	SSW	1	c/pr	57	92	7	8	7	–	4-6	9	4000	0	1
	Aldergrove	1008·0	−10	SSE	3	ir₀	57	85	8	8	–	–	9	9	2500	1	*
19	Birr Castle	1010·1	0	WSW	2	c	62	65	8	8	8	–	4-6	7-8	1500	1	*
20	Valentia Obsy. †	1012·5	+2	W'S	3	c	61	85	8	8	–	–	7-8	7-8	4000	1	2
	Roches Point	1011·2	0	NW	3	bc	63	65	9	2	5	–	4-6	4-6	2500	0	2

PAST 24 HOURS.

District	Stations	Weather 7h.–13h. 23rd (37)	Weather 13h.–18h. 23rd (38)	Weather 18h. 23rd to 1h. 24th (39)	Weather 1h.–7h. 24th (40)
1	London (Kew)	cir₀cr₀r₀c	cbcy	bcw	bccw
	Croydon	cm₀r₀c	cbcc	cbcb	bcm₀c
	S. Farnborough	cm₀r₀d₀c	cbcy	bcybw	bwc
	Boscombe Down	cm₀c	cy	b	bcm₀c
	Calshot (Soton.)	cm₀ir₀c	cbc	bm₀w	c
	Lympne	cir₀rr	crr ir₀	cbcbmw	bcmfcm₀
	Manston	cm₀cir₀	cr₀r₀ir₀c	cbcbw	bcm₀c
2	Shoeburyness	cm₀cpr₀	cv	cbcm₀	cmwc
	Felixstowe	cm₀ir₀m	cir₀m₀c	c,b	bm₀wcm₀
	Gorleston	c	c	cbcw	bcw
	Mildenhall	cm₀cz₀	cz₀ccm₀	bm₀wfg	bbccm₀fg
	Cranwell	cy	cyc	ccm₀bcm₀	bccm₀bc
3	Birmingham	cb	bc	cz	c
	Upper Heyford	cm₀cz₀	cz₀c	b	bcm₀cm₀
4	Ross-on-Wye	cbc	c	cbc	c
5	Hartland Point	cbc	bccbc	bccp	cp₀
	Bristol	cm₀r₀c	bccybc	bcc	cbcid₀c
	Portland Bill	c	c	c	c
	Plymouth	r₀cbc	cbc	bcc	cr₀r₀
	The Lizard	bc	bc	c	crp
	Scilly (St. Mary's)	cr₀cbc	bc	bccp₀c	cir₀
	Guernsey				
6	Pembroke	cbc	bcc	bccq	c
7	Holyhead	cybc⊕	bcir₀c⊕	ir₀RBc	bc
	Chester (Sealand)	cz₀cy	cyc	bccr₀m₀c	cwbcc
8	Manchester	wcm₀c	bcycy	cycm₀r₀m	cm₀w
10	Spurn Head	c	c	c	c
	Catterick	wbcc	ccz₀c	cm₀r₀r₀c	cm₀bcc
	Tynemouth	bcc	c	cp	cpc
11	St. Abbs Head	bc	ir₀c	c	rc
	Leuchars	cpr₀PRc,bc	cbcc	cir₀bcc	cir₀cbc
12	Renfrew (Abbots I.)	bcwcy	cy	cir₀c	cbcm₀fg
	Eskdalemuir	bcy	bccpr	cbc	crrcbc
	Point of Ayre	c	cir	rrcbc	c
13A	Tiree	cd₀c	c	cpr	cpbr
13B	Stornoway	c	cpr₀	crrpr	cPRr
15	Dalwhinnie	bc	bcc	•	cir₀
	Aberdeen	c	cbcc	cir₀c	cm₀
	Wick	c	c	crrc	cpr₀c
16	Lerwick	cpr	c	cbc	bcc
17	Blacksod Point	cbc	bc	bc	pr₀c
18	Malin Head	cpr₀c	cpr₀cprc	cjpbc	cpr₀cpr₀
	Aldergrove	cbccy	cycrrir₀	ir₀PRb	bcc
19	Birr Castle	c	cprc	bcpr	bcc
20	Valentia Obsy. †	idirc	cbcc	cbcc	c
	Roches Point	cid₀	cbc	bc	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

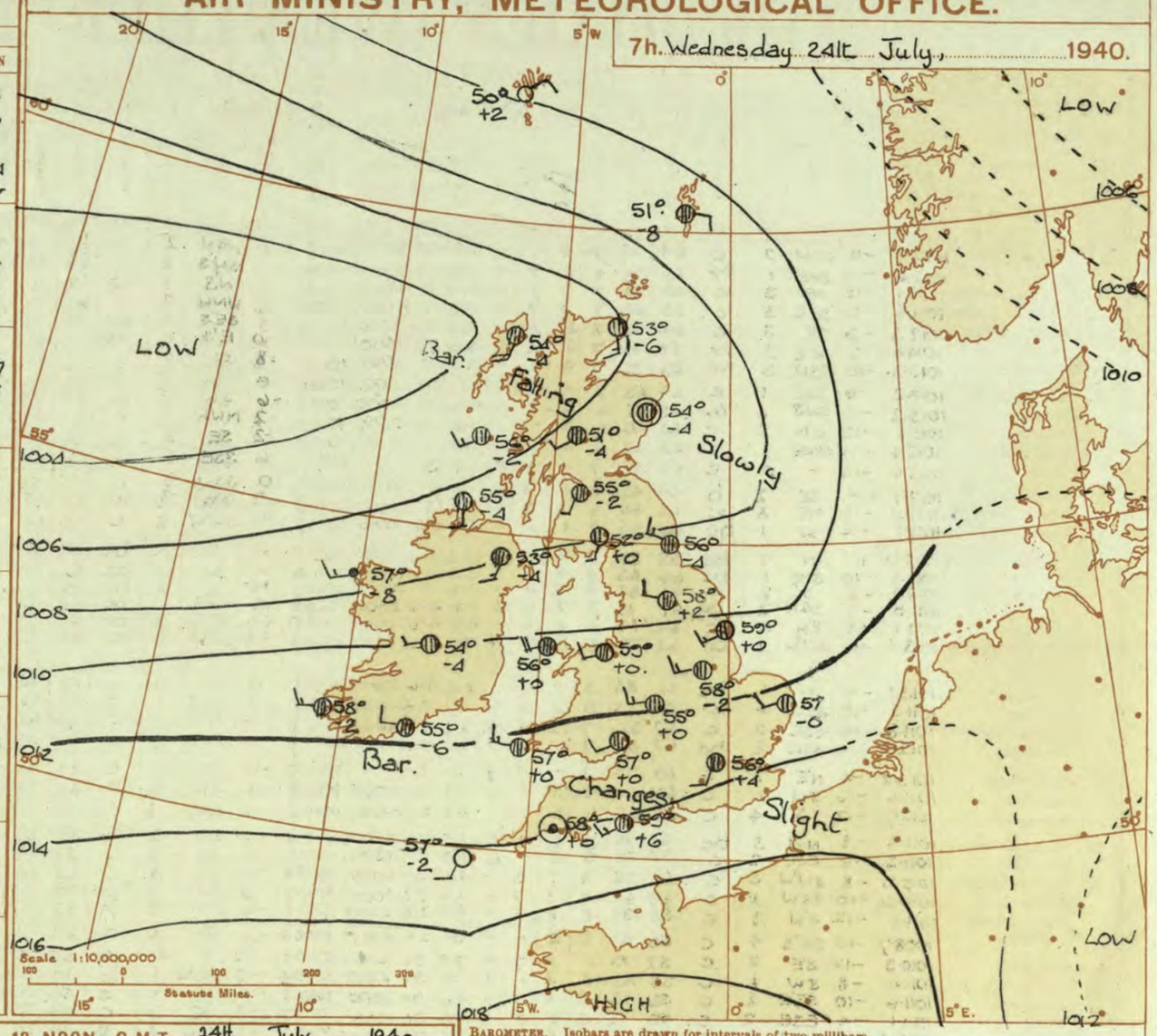
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 24th July, 1940.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 23rd July			18h. G.M.T.			01h. G.M.T. 24th July			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
106	87	02956	04217	47	02955	16127	57	02952	16217	5-	81838	10428
115	71	01943	22285	71	01943	08315	56	02845	12266	87	02844	12285
203												
206	7-	02965	06225	87	02963	08427	5-	25866	00086	54	01963	00024
210	53	02965	04226	57	02954	10327	5-	61757	11167	51	22855	00067
220	52	02853	16418	62	22845	13568						
230	77	02966	00027	62	66646	00068				8-	02745	16185
245	70	01964	08325	8-	02866	12327	53	02763	03165	5-	02767	22127
260	10	02864	01115				53	02865	16327	89	01854	20215
277	23	02953	12327	57	22865	15367	00	47290	23260	57	02753	21447
279												
285	8-	02747	22427	8-	02846	24327				23	02734	24427
288	80	02864	16326	83	05667	16228	57	22564	00455	57	02853	20327
273										23	05553	11304
301	23	02763	24225	83	01763	30215	5-	02766	22566	83	02754	24317
321	17	05761	14127	57	02764	14127	50	05675	14215	53	05674	20315
299							5-	62548	22368	57	05654	22215
292	8-	02667	18127	87	05664	12126	5-	22587	16167	53	05665	20217
310	--	02654	26214	--	02653	26213						
316	23	05663	18126	47	02664	16127	53	01663	18214	53	01675	22317
333	14	02961	22325	17	02951	22425	23	01851	22314	53	01852	24314
334	--	01865	16215	--	01863	20303				--	01854	22215
347	77	05664	15326	03	01890	19315	54	01853	20214	55	02872	22215
136	53	02864	12128	13	01762	03226	00	05690	12110	53	05674	18314
336	--	02853	28415	--	01852	24413				--	02853	20416
359	13	05654	10226							53	02775	18327
368	23	01753	10364	04	05690	23313	57	02855	24366	87	02854	24328
379	23	05656	08227	57	02755	00028	03	05690	22314	5-	41508	00048
390	57	22552	16168	83	02754	16126	5-	08557	20217	5-	08557	20217
388	77	02673	12265	27	01762	20124				57	02864	19128
438	62	61745	14228							32.	03625	22427
430	57	21876	14238	87	01864	18114	40	00762	00012.	52	05664	00028
409	54	02954	32225	14	01951	28214	57	02941	23327			

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 July 1940
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or light west-southwest wind backing south; mainly cloudy, occasional rain near South Coast today; local thundery showers in East, more general rain or drizzle tomorrow; fog patches on South Coast tomorrow; average temperature at first becoming close.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate southwest to south wind; cloudy, occasional rain near South Coast at first, more general rain with coast and hill fog by tomorrow morning; average temperature becoming close.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light or moderate westerly wind backing south to southeast, showers and local thunder today; some rain tomorrow; average temperature, becoming rather close.
12 S.W. Scotland & Isle of Man. 13 {A. W. Scotld. B.N.W.Scotland.} 14 Mid Scotland 15 N. E. Scotland	Moderate southwest wind backing southeast; occasional showers today, some rain tomorrow; average temperature.
16 Orkneys and Shetlands	Light or moderate east to southeast wind; cloudy, occasional showers or light rain; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate west to southwest wind backing south to southeast; cloudy occasional showers today; more general rain tonight; average temperature becoming close.

GENERAL INFERENCE.

A depression off Northwest Scotland is moving slowly east-northeast, and a small trough of low pressure over Southwest England is also moving east-northeast. A new depression will approach Ireland from west-southwest later. Weather will be mainly cloudy with showers or occasional rain in many districts and local thunder in the North East. More general rain with coast and hill fog will reach southwestern districts later and spread to eastern districts during tomorrow.

FURTHER OUTLOOK.

Some rain in most districts. Extensive coastal fog in the Southwest and South.

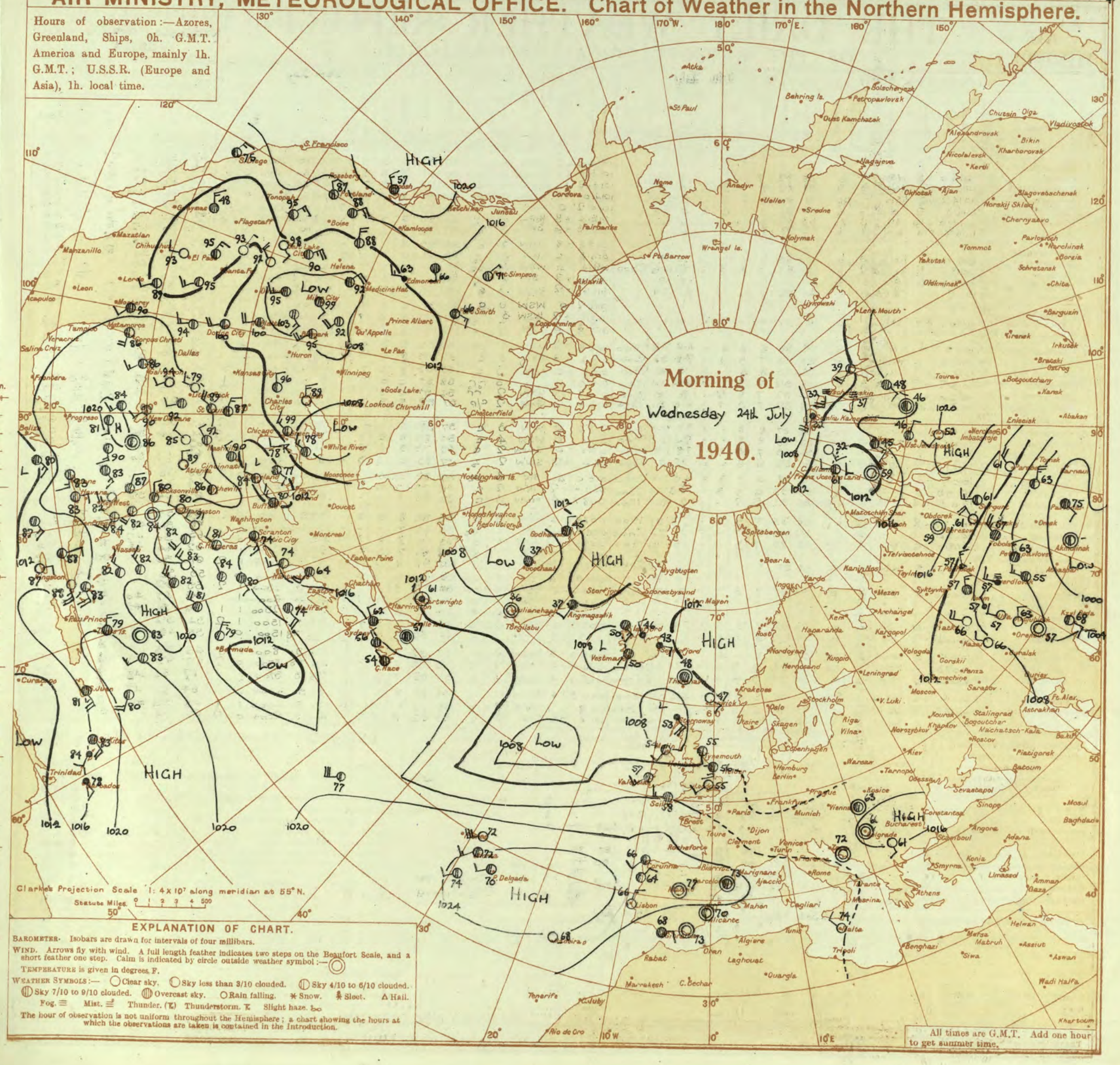
Forecasts issued at 10·30 h.

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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 24th July 1940.

No. 28734

OBSERVATIONS at 1 hr. G.M.T. 24th July

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	+8	WSW	2	b	55	92	7	-	-	-	0	0	-
	S. Farnborough	226	1013.8	+6	SW'W	3	b	54	92	7	-	3	-	0	1	-
	Boscombe Down	417	1014.2	+6	SSW	1	bc	51	97	6	-	3	-	0	4-6	-
	Calshot (Sthmtn.)	8	1014.3	+10	W	2	z	54	92	6	-	3	6	0	2-3	-
	Lympne ...	346	1014.5	+10	W	3	z°	53	92	6	-	-	-	0	0	-
	Manston ...	154	1014.2	+14	SW	3	b	52	97	7	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1012.9	+4	SW'W	3	b	60	85	8	-	-	-	0	0	-
	Gorleston ...	5	1012.6	+2	SW'W	2	bc	57	85	7	5	3	-	Tr	4-6	2500
	Mildenhall ...	19	1012.4	+6	S'W	1	fg	51	97	5	-	-	-	0	0	-
	Cranwell ...	240	1011.8	-2	S	3	z	54	92	6	-	7	-	0	7-8	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013.2	+6	SSW	1	b	51	97	6	-	3	-	0	1	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1013.6	+4	W	3	c	58	85	8	5	6	-	4-6	7-8	2500
	Bristol ...	209	1013.5	0	WSW	2	c	57	85	7	5	3	-	7-8	9+	1500
	Portland Bill ...	32	1014.1	+12	W	3	c	58	85	8	5	-	-	10	10	2500
	Plymouth ...	82	1015.7	+2	WSW	3	c	58	92	7	5	1	-	4-6	10	1500
	The Lizard ...	240	1016.0	+4	W'S	3	c	57	92	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	163	1015.5	+4	W	3	c/r	58	92	7	5	7	-	4-6	9+	2500
	Guernsey ...	175														
6	Pembroke ...	142	1012.9	0	N	4	c	58	97	8	8	-	-	7-8	7-8	1500
7	Holyhead ...	26	1010.8	+6	SW'W	3	bc	56	85	8	8	-	-	2-3	2-3	2500
	Chester (Sealand)	16	1011.1	-2	-	0	c	56	85	7	5	-	-	7-8	7-8	4000
8	Manchester ...	70	1011.1	+2	E'N	2	z	55	92	6	5	-	-	7-8	9	2500
10	Spurn Head ...	29	1010.7	-4	S	3	c	56	97	6	5	5	-	4-6	7-8	2500
	Catterick ...	175	1009.9	-6	-	0	z	53	92	6	5	3	-	2-3	7-8	2500
	Tynemouth ...	108	1010.4	-4	S	2	c/pr	55	92	5	2	-	-	9	9	2500
11	St. Abbs Head	280	1008.8	-8	SSW	2	c	54	85	7	5	2	-	7-8	9+	1500
	Leuchars ...	36	1008.0	-10	-	0	c	52	92	7	7	-	-	9+	9+	4000
12	Renfrew (Abbots I.)	19	1008.0	-6	W	1	°/r	55	85	7	5	-	-	10	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1008.5	-8	W'N	4	bc	55	97	8	1	4	-	1	2-3	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005.8	-6	SE	4	pr	53	97	7	8	7	-	9	9+	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1007.8	-10	S	4	c	52	97	7	8	7	-	7-8	10	1500
16	Lerwick ...	156	1010.6	-2	SE	2	bc	47	92	8	5	4	-	2-3	4-6	2500
17	Blacksod Point	18	1008.6	0	WNW	3	bc	55	85	8	-	4	-	0	4-6	-
18	Malin Head ...	84	1007.5	0	SSW	2	bc	54	85	8	2	6	-	2-3	4-6	5700
	Aldergrove ...	268	1009.0	+6	S'E	1	c	52	92	7	5	4	-	4-6	7-8	4000
19	Birr Castle ...	173	1011.4	+2	WSW	1	bc/pr	51	92	8	3	-	-	4-6	4-6	1500
20	Valentia Obsy.	30	1012.8	-2	WSW	3	c	57	85	8	5	-	-	9+	9+	2500
	Roches Point	22	1013.0	0	WNW	2	bc	55	92	8	5	3	-	1	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 24th July — 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)	1014.0	+6	SW	3	c	57	85	8	5	7	-	4-6	10	2500	1	*	67	55	46	0.1	-	1.7
Croydon	1013.5	+4	SW'S	2	c	56	92	8	5	7	-	4-6	9+	4000	0	*	69	52	44	Tr	-	2.2
S. Farnborough	1014.2	+4	SSW	2	c	56	92	8	5	7	-	2-3	10	4000	0	*	68	50	43	Tr	-	2.3
Boscombe Down	1014.0	+2	SW'S	2	c	55	97	8	5	7	-	2-3	10	5700	0	*	67	50	42	—	-	2.5
Calshot (Sthmtn.)	1014.2	0	W	2	c	59	85	8	5	1	7	1	10	2500	0	§	65	52	49	Tr	–	3.0
Lympne	1015.4	+8	WSW	2	z°	55	92	6	5	7	-	2-3	10	5700	1	2	61	49	43	2	Tr	0.0
Manston	1014.3	+6	SW'W	3	c°	57	85	7	-	7	-	0	10	-	0	*	64	50	42	Tr	-	0.8
Shoeburyness	1013.8	+8	WSW	3	c	59	85	7	-	1	-	0	10	-	0	*	65	55	46	Tr	-	1.4
Felixstowe	1013.5	+6	W'S	3	z°	58	85	6	-	7	7	0	10	-	1	2	66	55	50	Tr	-	1.7
Gorleston	1012.4	0	WSW	2	bc	57	85	7	-	7	-	0	4-6	-	0	1	63	53	49	-	-	0.9
Mildenhall	1012.6	+2	SW	3	z	56	92	6	5	7	-	4-6	7-8	5700	0	*	68	50	42	-	Tr	0.5
Cranwell	1011.6	-2	WSW	3	c	58	85	7	5	7	-	4-6	7-8	4000	0	*	67	51	46	-	-	3.6
Birmingham	1012.2	0	WSW	3	c	55	85	8	-	7	-	0	10	-	1	*	67	57	48	*	-	5.0
Upper Heyford	1013.1	+2	WSW	3	z°	55	97	6	5	7	-	9	10	450	1	*	67	50	43	-	-	*
Ross-on-Wye	1012.6	0	SW	2	c	57	85	7	5	-	-	10	10	2500	0	*	67	54	49	-	-	2.5
Hartland Point	1012.8	-2	W	4	pr	59	85	8	9	4	7	4-6	10	2500	0	3	62	58	54	-	1	9.3
Bristol	1013.6	+2	SSW	3	c	57	85	8	8	7	-	7-8	10	4000	0	*	68	55	55	Tr	Tr	5.2
Portland Bill	1014.8	+6	SW	3	c	59	92	8	5	7	-	4-6	10	4000	1	3	62	57		-	-	*
Plymouth	1014.5	0	-	0	r°r°	58	97	6	6	2	-	9+	10	450	1	1	62	57	49	Tr	0.5	8.2
The Lizard	1014.7	-2	SSW	2	rr	56	97	6	5	-	-	10	10	1500	1	2	64	55		Tr	2	9.8
Scilly (St. Mary's)	1014.0	-2	SW'S	2	c/p	57	92	8	8	7	-	4-6	10	1500	1	1	64	55	*	0.1	2	10.3
Guernsey																						
Pembroke	1012.9	0	W'N	3	c	57	97	8	5	6	-	7-8	9+	1500	1	2	62	56	*	-	0.4	6.5
Holyhead	1010.1	0	WSW	4	c	56	85	8	2	3	-	Tr	7-8	2500	1	2	64	54	50	Tr	5	6.0
Chester (Sealand)	1011.1	0	SW'W	2	c	59	75	8	5	3	1	1	9	5700	0	*	69	51	43	-	Tr	3.8
Manchester	1011.0	+2	SW'W	2	z	57	85	6	5	3	-	9	9+	4000	1		69	53	50	-	1	4.4
Spurn Head	1010.6	0	SW	3	bc	59	85	6	5	-	-	4-6	4-6	1500	0	2	63	55	*	-	-	5.3
Catterick	1009.4	+2	W'N	2	c	58	75	7	5	7	-	4-6	9+	2500	1	*	64	51	49	-	1	2.9
Tynemouth	1008.8	-4	WNW	3	c	56	85	7	8	-	-	9	9	4000	1	1	62	54	52	-	2	
St. Abbs Head	1007.4	-6	SW	3	c	53	85	8	8	6	-	7-8	9	1500	0	2	58	52	*	Tr	0.4	*
Leuchars	1006.9	0	W	2	bc	55	85	7	7	-	-	2-3	4-6	4000	1	*	61	51	48	0.6	0.2	4.5
Renfrew (Abbots I.)	1007.5	-2	SW'S	1	c	55	92	8	8	7	4	4-6	9	1500	0	*	65	50	42	-	Tr	4.9
Eskdalemuir	1007.9	0	SW	1	bc	52	85	7	5	4	1	2-3	4-6	1500	1		62	44	44	Tr	1	8.0
Point of Ayre	1008.9	-2	W	4	c	57	97	8	2	7	-	Tr	9	1500	1	2	67	50	*	0.3	6	6.3
Tiree	1004.9	-2	SW	3	c	56	85	8	8	3	-	4-6	7-8	1500	0	3	59	50	*	2	4	1.3
Stornoway	1004.6	-4	SSW	4	c	54	97	8	5	7	9	4-6	9	2500	1	2	59	52	*	Tr	8	7.7
Dalwhinnie	1007.0	-4	SW	1	c	51	85	8	4	4	-	7-8	9	800	1	*	60	47	40	0.1	1	4.1
Aberdeen	1006.4	-4	-	0	c	54	97	6	8	3	-	9	9+	2500	1	1	56	51	45	-	Tr	2.5
Wick	1005.9	-6	SSE	3	c/pr	53	97	7	5	7	-	7-8	9+	1500	1	2	54	52	*	-	0.6	*
Lerwick	1003.3	-8	E'N	2	c	51	85	8	5	7	-	4-6	7-8	1500	0	*	55	45	*	Tr	-	14.0
Blacksod Point	1006.9	-8	WSW	3	pr	57	92	7	9	-	-	9+	9+	800	1	3	63	53	*	4	3	*
Malin Head	1006.4	-4	S	2	c	55	85	8	5	7	-	4-6	7-8	5700	0	2	62	49	*	3	1	1.2
Aldergrove	1008.3	-4	SSW	3	c	53	92	8	5	3	-	7-8	9	5700	1	*	67	50	48	4	1	2.5
Birr Castle	1010.3	-4	WSW	1	c	54	85	8	5	-	-	9	9	4000	1	*	64	50	47	4	0.3	5.3
Valentia Obsy.	1011.8	-2	W'S	3	c	58	75	8	7	-	-	9+	9+	4000	1	1	63	53	48	3	-	7.0
Roches Point	1011.4	-6	W	2	c	55	92	8	5	7	-	4-6	9	2500	0	2	65	53	*	0.1	-	*

LONDON OBSERVATIONS

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

Stations	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	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	cir°cr°r°c	cbcy	bcw	67	55	46	0.1	-	1.7	*	*	8
Croydon ...	217	cm°r°c	abcc	bcm°c	69	52	44	Tr	-	2.2	*	*	8
Greenwich (Royal Observatory)...	149	cdcy	cb	bc	67	53	43	0.3	-	1.1	61	77	7
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	68	54	51	Tr		1.5	67	86	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	67	54	51	-	-		59	77	*
Camden Square ...	110	c	bc	*	70	54	51	—	-	*	*	75	*
Kensington ...	80	cpbc	bc	*	68	54	48	Tr	-		55	79	*
Hampstead Observatory ...	450	obc	bc	c	65	55	49	Tr	-		*	92	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington.				
Kew Observatory.	<0.1	7-9h. 23rd	<0.1	rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 23rd July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 24th July 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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 25th July 1940.

No. 28735

OBSERVATIONS at 13h. G.M.T. 24th July

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)...	1013·2	−8	SW'S	3	r.r.	60	75	7	6	2	–	7-8	10	1500
	Croydon	1013·7	−2	SSW	2	r.r.	60	85	7	5	2	–	7-8	10	4000
	S. Farnborough	1013·1	−8	SW	2	r.r.	59	85	7	1	2	–	10	10	2500
	Boscombe Down	1013·2	−6	SSW	3	r.r.	58	85	7	5	2	–	4-6	10	1500
	Calshot (Soton.)	1013·7	−6	SW	3	r.r.	58	92	6	–	2	–	10	10	2500
	Lympne ...	1015·1	−6	SW'S	4	ir.	60	85	8	8	2	–	9+	10	450
	Manston ...	1013·8	−4	WSW	4	ir.	63	85	7	5	2	–	4-6	10	1500
2	Shoeburyness ...	1013·4	−6	SW'W	3	ir.	63	65	8	6	2	–	Tr	10	1500
	Felixstowe ...	1012·9	−6	W	4	ir.	63	65	7	5	2	–	Tr	10	2500
	Gorleston ...	1012·1	−2	SW'W	3	c	64	55	7	8	7	–	4-6	9	2500
	Mildenhall ...	1011·7	−6	SW'S	4	c	63	92	7	7	7	–	2-3	10	4000
	Cranwell ...	1010·8	−8	SW	4	c	64	85	7	8	7	–	7-8	9+	4000
3	Birmingham	1011·0	−6	SW	3	ir	59	75	6	6	2	–	4-6	10	800
	Upper Heyford	1012·5	−4	SSW	3	c/r	60	85	7	5	2	–	4-6	10	1500
4	Ross-on-Wye ...	1012·0	−6	S'W	3	rr	57	85	7	6	2	–	2-3	10	1500
5	Hartland Point	1012·2	0	SW	3	ir	55	97	6	6	2	–	4-6	10	1500
	Bristol	1012·7	−10	SSW	3	r.r.	58	85	8	8	7	–	4-6	10	4000
	Portland Bill ...	1013·0	−14	E	2	r.r.	56	85	7	5	–	–	10	10	2500
	Plymouth ...	1012·5	−10	W	1	d d	57	97	8	6	2	–	4-6	10	450
	The Lizard ...	1012·6	−10	E'N	2	rr	55	97	6	5	–	–	10	10	1500
	Scilly (St. Mary's)	1011·4	−18	NE	3	ir.	56	97	6	5	2	–	7-8	10	1500
	Guernsey ...														
6	Pembroke ...	1011·6	−2	WSW	3	pr	58	97	8	8	–	–	9+	9+	1500
7	Holyhead ...	1009·7	−2	SW'S	4	c	61	75	8	8	3	5	2-3	9	1500
	Chester (Sealand)	1009·7	−10	WSW	3	pr	66	55	8	8	9	–	7-8	9	2500
8	Manchester ...	1009·7	−10	W'S	3	c	63	65	8	8	3	–	7-8	9+	2500
10	Spurn Head ...	1010·1	+2	SW'S	4	c	65	65	6	5	–	–	7-8	7-8	1500
	Catterick ...	1008·5	−6	W	3	c	62	65	8	8	7	–	4-6	9+	4000
	Tynemouth ...	1008·2	−2	W	3	c/pr	57	85	6	8	–	–	7-8	7-8	2500
11	St. Abbs Head	1006·3	−6	SE	2	c/pr	57	75	8	3	3	–	4-6	7-8	1500
	Leuchars ...	1005·0	−12	WSW	2	c	63	55	7	2	7	–	2-3	9	2500
12	Renfrew (Abbots L.)	1006·0	−6	SW'S	4	c	63	55	9	8	7	6	4-6	9+	2500
	Eskdalemuir ...	1006·4	−6	SW'W	5	c	57	65	8	5	3	1	4-6	7-8	1500
	Point of Ayre ...	1008·2	−4	W'S	4	c	64	75	8	8	4	6	1	9	2500
13A	Tiree	1004·5	0	SW	4	c	59	85	8	8	–	–	9	9	1500
13B	Stornoway ...														
15	Dalwhinnie ...	1005·5	−4	SSW	2	c	55	85	8	4	3	–	7-8	9+	1500
	Aberdeen ...	1004·7	−8	S	2	pr	60	75	7	9	9	3	7-8	9+	2500
	Wick	1004·7	−4	SSE	3	c	57	85	7	5	7	4	4-6	7-8	1500
16	Lerwick... ...	1008·6	−2	E'S	3	c	55	75	8	5	7	–	4-6	9	1500
17	Blacksod Point..	1009·0	−14	W	4	c	59	85	7	5	–	–	9+	9+	1500
18	Malin Head ...	1005·5	+2	SSE	3	c	59	85	8	8	–	–	7-8	7-8	5700
	Aldergrove ...	1007·0	−6	WSW	3	rr	53	92	7	9	–	–	9+	9+	1500
19	Birr Castle ...	1009·6	−2	WSW	2	c/pr	62	75	8	8	–	4	7-8	7-8	1500
20	Valentia Obsy. †	1012·9	+6	W'N	3	c	60	85	8	8	–	–	7-8	7-8	2500
	Roches Point ...	1011·2	+2	SW'W	2	c/pr	60	75	9	8	4	–	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 24th July

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)	1011·5	−8	W	2	r.r.	56	92	5	6	2	–	7-8	10	1500	1	*
	Croydon	1011·5	−12	SW	2	c/r	57	97	6	6	2	–	4-6	10	1500	1	*
	S. Farnborough	1011·6	−4	WNW	3	rr	56	97	5	6	2	–	9	10	800	1	*
	Boscombe Down	1011·2	−6	–	0	ir.	54	97	7	5	2	–	7-8	9+	800	1	*
	Calshot (Soton.)	1011·7	−4	W'S	2	ir.	58	92	6	6	2	–	9	10	800	1	2
	Lympne ...	1013·2	−14	SW	2	r.r.	56	92	7	–	2	–	10	10	1500	1	§ 3
	Manston ...	1011·5	−10	SW	4	r.r.	59	85	6	5	2	–	9	10	800	1	*
2	Shoeburyness ...	1011·9	−12	WSW	3	rr	58	92	6	6	2	–	9	10	800	1	*
	Felixstowe ...	1011·5	−8	W	3	rr	56	97	6	6	2	–	9+	10	1500	*	*
	Gorleston ...	1011·5	−4	SSW	3	r.r.	60	85	5	6	–	–	10	10	800	1	2
	Mildenhall ...	1011·0	−2	SW'S	2	rr	56	97	6	–	2	–	9+	9+	1500	1	*
	Cranwell ...	1009·7	−2	SW	5	bc	60	75	7	8	3	–	4-6	4-6	2500	0	*
3	Birmingham	1010·0	−8	SW	2	c	57	85	7	8	7	–	7-8	7-8	1500	1	*
	Upper Heyford	1011·6	−8	SW	2	c/r	54	97	8	5	7	–	7-8	9+	2500	1	*
4	Ross-on-Wye ...	1010·8	−8	SW	3	bc	57	85	8	7	–	–	2-3	2-3	2500	1	*
5	Hartland Point	1011·5	−6	NW	3	bc	59	92	9	7	–	–		4-6	2500	1	2
	Bristol	1011·5	−12	–	0	c/r	57	92	7	8	3	–	4-6	10	1500	1	*
	Portland Bill ...	1011·3	−10	SW	2	c	56	85	8	5	–	–	10	10	2500	1	3
	Plymouth ...	1011·2	−6	NW	1	c/r	59	92	7	7	–	–	9+	9+	1500	1	1
	The Lizard ...	1011·8	+4	NE	2	c	58	92	8	8	6	–	7-8	7-8	2500	1	2
	Scilly (St. Mary's)	1012·4	+10	NNE	3	c	58	85	8	8	4	4	4-6	7-8	1500	1	1
	Guernsey ...																
6	Pembroke ...	1011·3	−4	W	3	bc	59	92	8	2	6	–	2-3	2-3	2500	1	2
7	Holyhead ...	1008·6	−2	WNW	3	bc/d	60	75	8	8	3	2	2-3	4-6	2500	1	2
	Chester (Sealand)	1009·0	−2	WSW	4	bc	65	85	8	8	6	2	4-6	4-6	4000	1	*
8	Manchester ...	1008·9	−2	W	3	c	61	65	8	8	4	5	4-6	7-8	4000	0	*
10	Spurn Head ...	1008·2	−4	SW'S	4	c	62	65	6	5	–	–	9+	9+	800	0	2
	Catterick ...	1023·4	−4	W'S	4	c	61	65	8	8	7	–	4-6	7-8	2500	1	*
	Tynemouth ...	1007·5	−4	W	3	c/pr	63	65	6	8	–	–	7-8	7-8	2500	1	1
11	St. Abbs Head	1005·3	−4	SW	4	cjp	57	75	8	8	2	3	4-6	7-8	1500	1	2
	Leuchars ...	1004·8	−2	NW	2	c/pr	63	55	8	3	6	–	4-6	7-8	2500	1	*
12	Renfrew (Abbots L.)	1006·1	+2	WSW	4	pr	56	92	8	9	6	–	9	9+	1500	1	*
	Eskdalemuir ...	1006·0	−2	SW'W	3	c	54	75	7	8	–	1	7-8	9	1500	1	*
	Point of Ayre ...	1007·4	−2	W'S	4	bc	60	85	8	8	5	9	Tr	2-3	4000	1	2
13A	Tiree	1005·1	+2	WNW	2	bc	59	85	8	8	3	–	2-3	4-6	2500	0	2
13B	Stornoway ...	1005·1	+8	E	1	c	55	92	8	8	7	–	7-8	9+	1500	1	1
15	Dalwhinnie ...	1005·5	0	SW	1	c	55	75	8	4	–	2	7-8	10	1500	1	*
	Aberdeen ...	1004·8	−2	NW	1	c/r	55	92	6	9	7	6	2-3	10	4000	1	1
	Wick	1004·3	−2	SE	3	c	56	92	6	5	7	8	7-8	9+	800	1	1
16	Lerwick... ...	1008·2	−2	ESE	3	pr	53	85	8	8	7	–	7-8	9	800	1	*
17	Blacksod Point..	1011·1	+14	W'N	4	bc	59	75	8	3	–	–	4-6	4-6	2500	0	3
18	Malin Head ...	1007·0	+12	WNW	5	cjp	58	85	8	9	–	–	9	9	4000	0	2
	Aldergrove ...	1007·2	+4	WSW	3	c	60	85	8	3	–	–	9	9	2500	1	*
19	Birr Castle ...	1010·7	+4	WSW	2	bc	63	55	8	2	–	4	2-3	4-6	2500	1	*
20	Valentia Obsy. †	1014·2	+10	NW'N	4	bc	61	75	8	2	–	–	2-3	2-3	2500	0	2
	Roches Point ...	1011·6	+8	NW	4	bc	63	65	9	2	4	–	4-6	4-6	2500	0	2

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 24th. (37)	Weather. 13h.—18h. 24th. (38)	Weather. 18h.—24h. 24th. 1h.—25th (39)	Weather. 1h.—7h. 25th. (40)
1	London (Kew)	c c r.r.	c r.r.r.	c r.c b c b	b b c m.w
	Croydon	r.r.	r.r.d r m.	b c m.b	b m.b c
	S. Farnborough	c r.r.	c r.r. d d	c d d.f b	b f e b c
	Boscombe Down	c r.r.m.r.r.	c r.r.c r r	c i r.b f f g f g m b c F	
	Calshot (Soton.)	c d.r.r.m.	c r r r.m.	b c m.b.w	b c w m.
	Lympne ...	c i r.i d.	m r r c i r.	o r.r.m.r.b	f f b
	Manston ...	c	c i r.r.	r r b m.e	b m.o w f e
2	Shoeburyness ...	c p r.i r.c	r.r.r r c	c r r b f	f b c w m.
	Felixstowe ...	c m.o c i r.	r	r r d d.c.b	b
	Gorleston ...	b c c y	c o r.r.	o r.c b c b	b b c b
	Mildenhall ...	c m.o w c	c i r.c r r	c r r b m	b m.o w
	Cranwell ...	c	p r.o, i r.b c	b c b m.	b m.
3	Birmingham	c b c	c i r	c b	b m
	Upper Heyford	c i r.c	c i r c r.r.r.c	b c b m.	b m.o f c m.
4	Ross-on-Wye ...	c c r.c r	r r c b c	b b c b	b w b c
5	Hartland Point	P i r c	v r.r b c	b c	b c
	Bristol	c p r.r.r.	v c r.d r m.o	b c b m.w	b m.f g b c w
	Portland Bill ...	o r r	o r r c	b c b	b c c
	Plymouth ...	r r d d o	c r.r.r c	c b c b	b w f m
	The Lizard ...	r r d r r	r r i d c	b c	b c c
	Scilly (St. Mary's)	c r r i r	c r.r.c	c b c w	b c c w
	Guernsey ...				
6	Pembroke ...	c p r.	c b c	b c	b c c
7	Holyhead ...	b c c	c p r b c	b c w b	b w b c
	Chester (Sealand)	c p r.y p r b c	b c b b c w	b c w	
8	Manchester ...	c m.o z.o c	c q p r.b c	b c c q b c c	b c m.
10	Spurn Head ...	c	c o	b c b	b c
	Catterick ...	c	c b c c	c p r.b c b	b w b c c
	Tynemouth ...	c p r	c p	c b c	b c
11	St. Abbs Head	p r c	r r p r c	c b c	c b c
	Leuchars ...	b c c y	c y p r.c	c b c b	b c c b c w
12	Renfrew (Abbots L.)	c w c p r.c y	c y p r.o P R	c p r.o b c	b c c w b c w
	Eskdalemuir ...	c p r P R	c p r P R	c i r.o b c	b c c p r.o c
	Point of Ayre ...	c	r r c b c	c p r b c	c
13A	Tiree	c /	b c p r.	b c	b c
13B	Stornoway ...				
15	Dalwhinnie ...	c i r.	c P R	c b c	b c c
	Aberdeen ...	c t l p r	c i r.	c	c b c
	Wick		t l P R c	c b c	b c
16	Lerwick... ...	c	c m.	c m.	c p r.
17	Blacksod Point..	c	c p r.	c p r.o c	c
18	Malin Head ...	b c c	b c	b c	b c
	Aldergrove ...	c r.r c	c b c c	c p r c c	b c b c c
19	Birr Castle ...	c c i r r r	r r p r p r.	c b c c	b c c b c
20	Valentia Obsy. †	c p r.	b c y	b	b c
	Roches Point ...	p r.o P R b c c	c b c	b c b w b c w	b c w b c
		c p r.o c	b c y b c	b b c	b c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29—STATE OF GROUND.

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

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

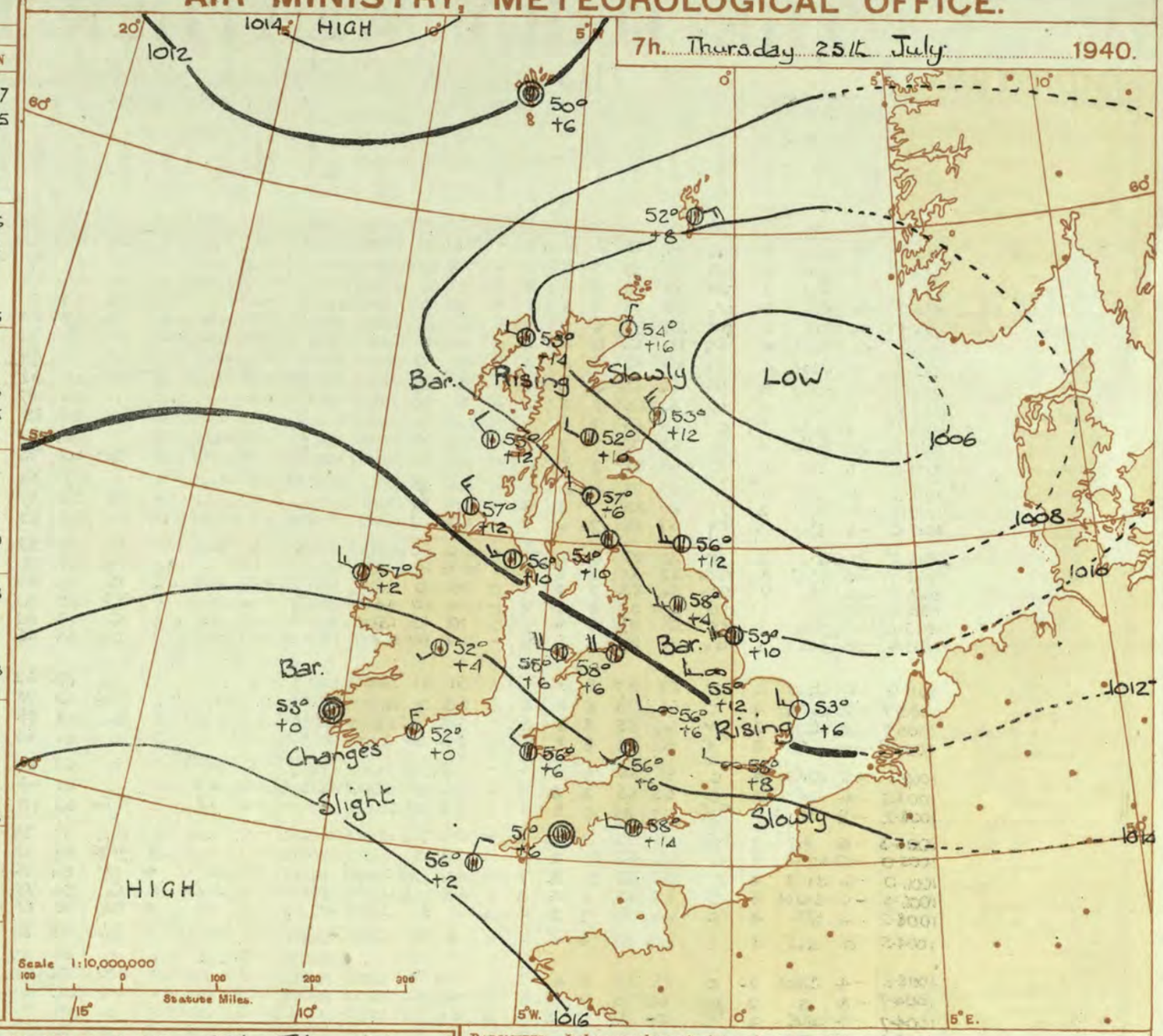
Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 24th July			18h. G.M.T.			01h. G.M.T. 25th July			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	02646	15368	57	10644	11325	5-	02527	08127	8-	01777	08307
115	87	25844	08286	87	02844	08186	52	02744	28225	52	02844	22325
203												
206	84	81866	20287	37	82756	00088	54	01974	00084			
210	86	25856	08187	87	10845	20327	5-	02855	22225			
220	73	01944	20204	73	01944	23215				8-	02846	28326
230	87	25854	20387	86	25955	20387	86	02845	50087	80	01844	24314
245	27	02854	22315	87	81955	32287	54	02865	26186	83	01953	
260				37	01853	20314	03	05690	24313	63	05663	20215
277	92	81855	18488	93	25843	22283	5-	21757	22457	83	02854	23426
279												
285	2-	81847	24587	23	81745	26527				9-	81737	24587
288	87	02854	20485	87	02853	20426	50	00762	20282	5-	02866	20326
293										46	02644	27368
301	23	02854	24385	83	02864	24416	53	02754	26416	83	02746	24427
321	87	81763	20327	34	11665	24186	00	05590	20100	01	05690	24212
299	87	05655	22327				50	01753	20203	5-	02755	28215
292	87	02864	24227	23	01363	24314	50	00861	22111	53	02873	24315
310	--	01635	24415	--	25626	24486				--	46209	24349
316	37	25654	22386	83	05654	18385	00	00790	00010	80	05544	26314
333	56	02856	20427	87	01953	21424	57	00752	28403	53	01743	28403
334				--	02855	24415				--	01844	24314
340	87	25944	20486	80	01954	18384	00	00890	23111	73	00961	19212
136	97	25754	20387	82	61645	18367	00	05690	18210	50	05633	20203
336	--	03854	20428	--	01853	24414				--	01852	28413
350	57	22744	18368	57	62855	18167				00	41690	22244
368	52	62745	21468	24	01954	26265	40	01853	26113	26	05651	00026
379	82	61746	20428	53	22745	22146	00	45290	00040	00	02790	24105
390	57	61776	20368	62	54437	26368	00	41490	24340	05	05590	24214
382	17	22844	19368	57	02765	18126	00	47290	00000	01	05690	00045
438	3-	63628	24368							57	01763	32213
430	02	64642	20368	62	62626	21268	00	05590	00003	03	05690	22115
409	02	58628	00068	83	02951	32265	50	02846	25216	55	02853	32127

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 25th July 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. 25th July 1940
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light or moderate west-northwest wind backing south; bright periods today becoming cloudy with some rain later; average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light northwest wind backing south; fair at first, some rain or drizzle later with local coast fog; average temperature.
7 North Wales ... 8 N.W. England	Moderate northwest wind backing south; bright intervals and occasional showers today; cloud increasing later with some rain or drizzle; average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate northwest wind, backing south; bright intervals, showers and local thunder today; occasional rain later; average temperature.
12 S.W. Scotland & Isle of Man.	As 7-8.
13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland	Moderate northwest wind becoming variable; bright periods, local showers; average temperature.
15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate northeast wind; bright periods; occasional showers with thunder locally; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 7-8.
19 S. E. Ireland 20 S. W. Ireland	As 4-6.

GENERAL INFERENCE.

A depression over the Northern North Sea is moving east. A wedge of high pressure off West Ireland will also move east, and is likely soon to be followed by another depression. There will be bright periods in most districts today, but thundery showers are probable in the North-east. Rain will commence in Ireland later and will spread eastwards. Some coast fog is probable later in the South-west.

FURTHER OUTLOOK.

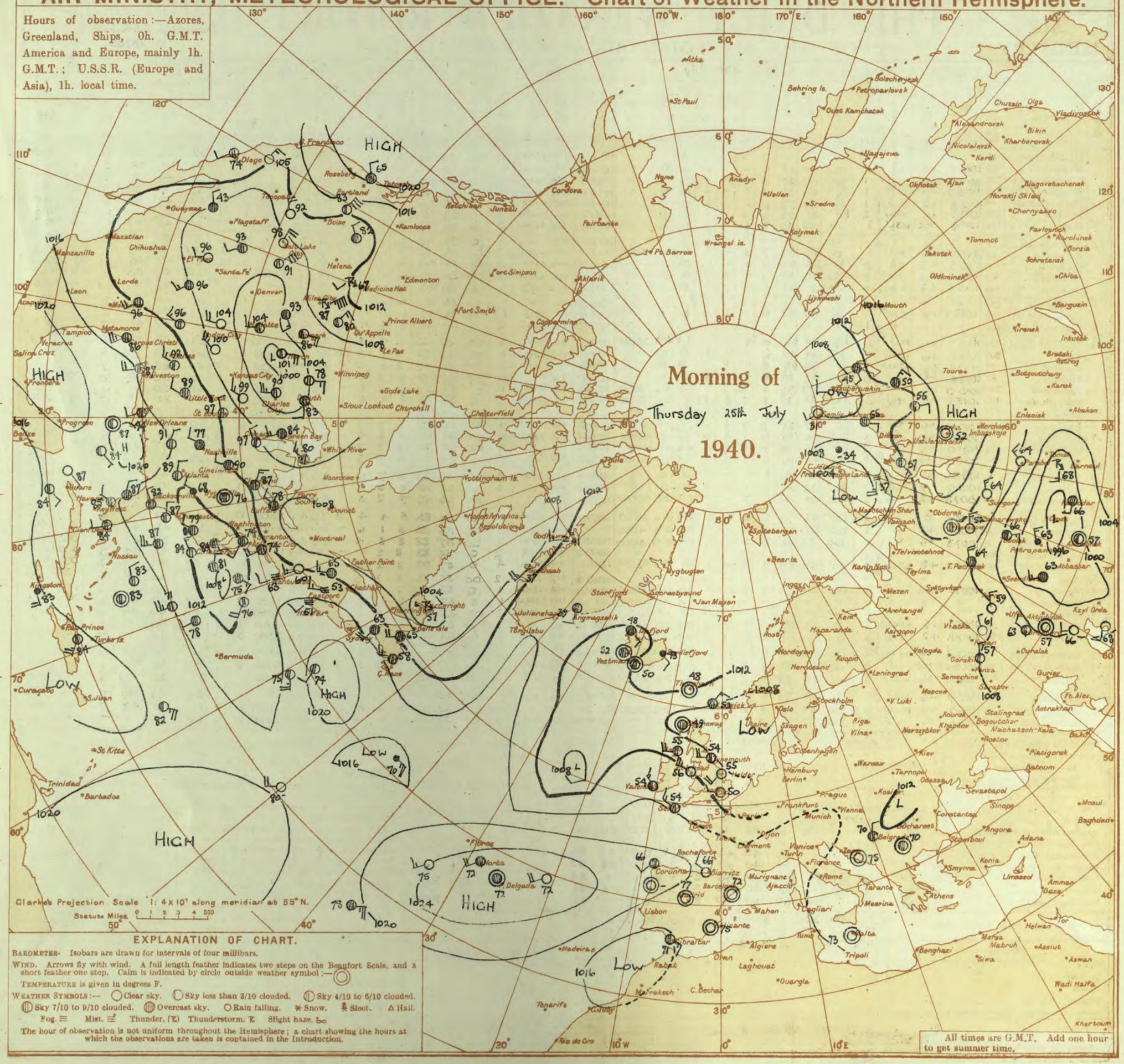
Further rain in most districts.

Forecasts issued at 10.30 h.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3902 No. 3049. D 3705. Q. 348 15802 8/40

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



AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Thursday 25th July 1940.
No. 28735

OBSERVATIONS at 1 hr. G.M.T. 25th July

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	1012·1	+4	W	1	zo	50	97	6	-	-	-	0	0	-
	S. Farnborough	226	1012·6	+6	W'S	1	bf-	45	97	3	-	-	-	0	0	-
	Boscombe Down	417	1013·0	+4	W'N	1	fg	48	97	5	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1012·8	+6	WNW	1	zo	50	92	6	-	-	1	0	Tr	-
	Lympne	346	1012·7	+2	NNW	2	bf	51	92	2	-	-	-	0	0	-
	Manston	154	1011·4	+2	WSW	3	zo	52	97	5	5	-	-	1	1	220
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1011·0	+2	WNW	3	b	54	92	7	5	-	-	Tr	Tr	1500
	Gorleston	5	1010·3	-2	W'S	3	b	54	92	7	-	-	-	0	0	-
	Mildenhall	19	1010·8	+2	SW	3	zo	49	97	5	-	-	-	0	0	-
	Cranwell	240	1010·4	+2	SW	3	zo	51	92	6	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1012·3	+2	SW	1	zo	47	97	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1013·3	+6	NW	3	bc	58	92	9	4	-	-	2-3	2-3	2500
	Bristol	209	1013·1	+6	WNW	4	zo	54	97	6	-	-	1	0	Tr	-
	Portland Bill	32	1013·5	+6	WNW	2	b	56	85	8	-	-	-	0	0	-
	Plymouth	82	1014·4	+8	-	0	b	54	85	8	-	-	6	0	1	-
	The Lizard	240	1015·0	+4	-	0	bc	52	92	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1015·1	+4	NW	3	bc	54	97	8	2	4	2	1	4-6	2500
	Guernsey	175														
6	Pembroke	142	1014·0	+6	NW	4	bc	57	85	8	7	7	-	2-3	2-3	2500
7	Holyhead	26	1011·4	+10	W'N	5	b	56	85	9	1	4	-	Tr	1	4000
	Chester (Sealand)	16	1011·0	+6	W	2	bc	55	85	7	5	-	-	4-6	4-6	4000
8	Manchester	70	1010·5	+6	WSW	1	zo	52	92	6	7	3	-	7-8	9+	4000
10	Spurn Head	29	1008·5	0	WSW	4	b	55	92	6	-	-	-	0	0	-
	Catterick	175	1008·2	-2	W	2	b	53	85	7	-	-	-	0	0	-
	Tynemouth	108	1007·8	+2	W	3	bc	54	92	6	7	-	-	2-3	2-3	4000
11	St. Abbs Head	280	1006·0	0	W	4	bc	55	75	8	4	4	-	2-3	4-6	2500
	Leuchars	36	1006·1	+2	W	3	bc	53	85	8	7	-	-	2-3	2-3	4000
12	Renfrew (Abbots I.)	19	1007·8	+6	W	3	bc	53	85	7	5	-	-	4-6	4-6	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1009·6	+8	WNW	4	bc	54	97	8	2	4	-	Tr	2-3	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1007·5	+12	-	0	bc	49	97	8	5	-	-	4-6	4-6	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1005·5	+6	WNW	2	c	53	97	5	5	7	7	7-8	10	800
16	Lerwick	156	1007·8	+2	E'N	3	c	52	85	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	18	1013·4	+6	W'N	2	bc	54	85	8	3	-	-	2-3	2-3	2500
18	Malin Head	84	1009·5	+10	W	4	bc	55	85	8	2	-	-	4-6	4-6	5700
	Aldergrove	268	1010·1	+6	WSW	3	c	54	85	7	5	-	-	7-8	7-8	2500
19	Birr Castle	173	1013·7	+6	W'N	1	b	49	92	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1016·2	+4	NW'N	3	bc	54	85	8	2	-	6	Tr	2-3	2500
	Roches Point	22	1015·6	+6	NW	3	bc	53	85	8	-	-	5	0	2-3	-

OBSERVATIONS at 7 hr. G.M.T. 25th July — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 24th. Hrs. (36)
London (Kew)	1013·8	+12	WNW	1	zo	53	92	5	-	-	6	0	7-8	-	1	*	62	46	39	5	1	0·0
Croydon	1013·3	+8	WNW	1	zo	55	92	6	5	4	6	Tr	7-8	1500	1	*	63	48	41	2	2	0·1
S. Farnborough	1014·2	+14	W'N	1	c	52	97	7	-	-	6	0	7-8	-	1	*	61	44	37	6	0·3	0·0
Boscombe Down	1014·4	+10	NW'N	2	cf-	49	97	2	-	7	1	0	7-8	-	1	*	59	46	39	5	0·1	0·0
Calshot (Sthmtn.)	1014·1	+10	WSW	1	zo	55	92	6	1	5	6	Tr	7-8	4000	1	0	63	48	45	5	Tr	0·0
Lympne	1014·2	+6	NW'N	2	c	52	97	8	-	-	9	0	7-8	-	1	§1	62	47	45	1	4	0·0
Manston	1013·4	+14	W'N	3	zo	56	85	5	5	-	6	1	7-8	800	1	*	65	49	47	1	2	0·2
Shoeburyness	1013·6	+10	W	2	c	55	92	5	-	-	6	0	7-8	-	0	*	58	50	43	4	2	0·2
Felixstowe	1012·5	+10	WNW	3	b	56	85	7	-	-	5	0	1	-	0	1	67	52	49	-	1	0·3
Gorleston	1011·6	+6	W'N	3	b	53	92	6	-	4	-	0	Tr	-	1	2	65	49	48	0·4	0·4	2·9
Mildenhall	1012·6	+14	WSW	2	zo	54	92	6	1	4	-	Tr	1	2500	1	*	65	47	43	2	2	0·9
Cranwell	1011·8	+12	W'S	3	zo	55	85	6	-	-	1	0	1	-	0	*	65	47	45	0·1	-	3·8
Birmingham	1013·0	+6	W	2	zo	56	85	6	-	-	1	0	2-3	-	1	*	61	49	45	2*	-	2·1
Upper Heyford	1013·4	+6	SW	1	zo	51	97	6	1	-	6	Tr	7-8	4000	1	*	60	44	38	3	-	*
Ross-on-Wye	1013·7	+6	SW	2	c	56	85	8	4	-	6	Tr	7-8	2500	1	*	61	47	41	7	-	2·3
Hartland Point	1014·3	+6	N	3	bc	57	85	8	8	4	4	2-3	4-6	2500	1	2	60	56	52	15	-	2·9
Bristol	1014·2	+10	WNW	1	c	57	85	7	1	7	2	Tr	7-8	2500	1	*	60	49	38	5	-	9·1
Portland Bill	1014·7	+14	W	2	c	58	92	8	1	4	-	4-6	7-8	4000	1	2	60	55	*	7	-	*
Plymouth	1015·0	+6	-	0	m/F	51	97	4	5	7	-	4-6	10	<150	1	1	59	50	41	10	Tr	0·7
The Lizard	1015·3	+4	NE	1	c	55	97	8	8	6	-	7-8	7-8	2500	0	2	60	50	*	11	-	1·8
Scilly (St. Mary's)	1015·2	+2	NNE	2	c	56	92	8	5	4	8	1	9	2500	1	1	58	53	*	17	Tr	2·9
Guernsey																						
Pembroke	1014·2	+6	NW	2	c	56	85	8	7	7	-	2-3	9	2500	0	2	60	53	*	0·2	-	5·5
Holyhead	1012·8	+6	W'N	4	c	55	85	8	5	4	-	4-6	7-8	1500	1	3	62	54	51	Tr	-	10·8
Chester (Sealand)	1012·3	+6	W	4	bc	58	75	8	8	7	-	2-3	4-6	4000	0	*	68	52	42	0·3	-	6·7
Manchester	1011·8	+10	W'S	4	zo	58	85	6	8	3	-	2-3	4-6	2500	0	*	65	50	42	Tr	-	5·3
Spurn Head	1010·4	+10	W'S	5	c	59	85	6	7	-	-	7-8	7-8	4000	0	3	68	53	*	-	-	4·0
Catterick	1009·8	+4	W	3	c	58	75	8	5	3	-	4-6	9	4000	1	*	65	49	45	-	Tr	4·5
Tynemouth	1008·8	+12	W	3	bc	56	85	7	2	3	-	4-6	4-6	2500	1	1	63	52	50	5	-	*
St. Abbs Head	1007·9	+14	WNW	4	bc	54	85	8	4	4	9	2-3	4-6	2500	0	3	60	52	*	6	-	*
Leuchars		+10	WSW	3	bc	55	85	9	1	6	-	2-3	2-3	4000	1	*	65	49	46	0·1	-	4·3
Renfrew (Abbots I.)	1009·2	+6	W'N	2	bc	57	85	8	8	4	-	2-3	4-6	2500	1	*	64	52	47	2	0·2	4·0
Eskdalemuir	1009·3	+10	W'S	2	c	54	85	8	5	-	-	7-8	7-8	1500	1		60	49	44	3	0·5	3·8
Point of Ayre	1011·1	+10	WNW	4	c	57	92	8	2	3	-	1	7-8	1500	0	2	67	52	*	3	0·2	5·2
Tiree	1010·6	+12	NW	2	bc	55	85	8	8	3	-	2-3	2-3	2500	0	2	61	50	*	Tr	-	11·0
Stornoway	1009·1	+14	WNW	1	c	53	97	7	5	7	-	7-8	7-8	4000	1	0	60	49	*	2	-	5·7
Dalwhinnie	*	+10	WNW	1	c	52	85	8	2	6	-	4-6	7-8	1500	1	*	57	47	42	2	Tr	1·5
Aberdeen	1007·8	+12	NW	3	bc	53	85	8	8	3	-	4-6	4-6	4000	1	1	61	49	46	6	-	3·1
Wick	1007·6	+16	N	1	c/pr	54	97	7	5	7	8	7-8	9+	800	1	1	58	50	*	-	Tr	*
Lerwick	1009·1	+8	NE	3	c	52	85	8	5	7	-	4-6	7-8	2500	0	*	57	50	*	Tr	Tr	2·6
Blacksod Point	1013·7	+2	W'N	3	bc	57			4	4	*	1	4-6	1500	0	2	62	51	*	0·5	-	*
Malin Head	1011·1	+12	NW'N	3	bc	57	85	8	2	-	-	4-6	4-6	5700	0	2	59	51	*	1	0·5	5·9
Aldergrove	1011·4	+10	W'S	3	bc	56	85	9	5	4	1	2-3	4-6	800	1	*	62	52	50	9	-	2·6
Birr Castle	1014·5	+4	SW	1	bc	52	92	8	-	-	5	0	4-6	-	1	*	66	45	40	Tr	-	6·8
Valentia Obsy.	1015·8	0	-	0	bc	53	92	8	8	3	9	2-3	2-3	1500	0	2	62	50	42	2	Tr	9·1
Roches Point	1015·6	0	NNW	3	bc	52	85	8	5	4	5	1	4-6	4000	0	2	66	50	*	Tr	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	ccr₀r₀	cr₀rr₀	bbcm₀w	62	46	39	5	1	0·0	*	*	6
Croydon	217	cr₀r₀	r₀r₀drm₀	bm₀bc	63	48	41	2	2	0·1	*	*	
Greenwich (Royal Observatory)	149	cr₀	ir₀ rr	rrbfc	63	48	41	2	4	0·0	86	74	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	62	49	46	8		0·0	87	86	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	63	49	47	4	2	0·0	88	82	*
Camden Square	110	cr	cr	*	63	50	46	5	1	*	*	84	*
Kensington	80	cp	cr	*	63	49	45	5	2		89	81	*
Hampstead Observatory	450	or	bc	bc	60	47	47	5	-	0·0	*	92	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 25th.

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·1	21h 24th	<0·1	Rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 24th July Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 25th July 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.

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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

Friday 26th July 1940.

No. 28736

OBSERVATIONS at 13h. G.M.T. 25th July

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)	1013.5	-6	S'W	2	c	67	55	8	8	-	8	4-6	9+	2500
	Croydon	1013.4	-6	SW'W	1	c	67	55	8	2	4	6	4-6	9	4000
	S. Farnborough	1013.5	-2	SSW	3	c	67	65	8	8	1	-	4-6	10	4000
	Boscombe Down	1013.7	-6	W'N	2	c	66	65	8	5	-	8	7-8	10	2500
	Calshot (Soton.)	1014.3	-2	SW	3	c	67	65	8	2	1	-	4-6	9+	4000
	Lympne	1014.8	-2	SSW	2	c	64	65	8	2	7	6	2-3	9	2500
	Manston	1014.1	+2	SE'S	3	c	66	65	7	2	-	9	4-6	7-8	2500
2	Shoeburyness	1013.7	-6	SW'S	2	c	70	55	8	8	5	3	7-8	9	4000
	Felixstowe	1013.5	-2	S'W	4	bc	67	75	8	1	-	8	2-3	4-6	2500
	Gorleston	1012.8	+6	ENE	3	bc	66	45	7	2	-	-	4-6	4-6	4000
	Mildenhall	1012.8	-2	WNW	3	bc	67	85	8	1	-	1	4-6	4-6	4000
	Cranwell	1012.8	+6	W	3	c	66	55	7	8	-	-	7-8	7-8	2500
3	Birmingham	1012.7	-2	WSW	3	bc	66	45	8	7	-	1	4-6	4-6	4000
	Upper Heyford	1013.1	-4	W	2	c	68	55	8	8	-	6	4-6	9	2500
4	Ross-on-Wye	1013.3	-4	S	2	c	66	50	8	1	-	7	4-6	9+	4000
5	Hartland Point	1014.5	0	NW	3	c	59	75	8	4	2	-	2-3	9+	2500
	Bristol	1014.1	0	WSW	2	c	64	88	8	5	7	8	4-6	9+	4000
	Portland Bill	1014.7	+2	WSW	2	c	60	92	8	4	7	-	7-8	10	4000
	Plymouth	1014.3	-6	S	1	c	59	85	8	1	2	-	1	10	1500
	The Lizard	1014.9	-4	-	0	c	59	85	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	1014.5	-6	NE	2	c	58	85	8	8	7	-	4-6	9+	1500
	Guernsey														
6	Pembroke	1014.6	0	WNW	2	c	58	80	8	7	7	1	4-6	7-8	2500
7	Holyhead	1013.3	+2	WNW	3	c	63	75	8	8	3	4	2-3	7-8	2500
	Chester (Sealand)	1013.1	0	NW	3	c•	62	65	8	8	6	-	7-8	7-8	2500
8	Manchester	1012.5	0	W'N	4	c	63	65	8	8	3	-	7-8	9	4000
10	Spurn Head	1011.9	+2	W'N	3	c	67	65	6	8	-	-	7-8	7-8	7200
	Catterick	1011.0	+6	W	2	c	65	55	8	8	3	-	2-3	9+	4000
	Tynemouth	1010.2	+4	N	3	c	64	65	8	2	3	-	4-6	7-8	4000
11	St. Abbs Head	1010.1	+10	-	0	c	60	75	9	5	4	-	4-6	7-8	1500
	Leuchars	1009.7	+8	SSE	2	c	64	55	9	8	-	-	9	9	2500
12	Renfrew (Abbots I.)	1010.9	+6	W'N	4	c	65	65	9	8	-	-	7-8	7-8	4000
	Eskdalemuir	1010.2	+8	WNW	2	bc	61	65	8	8	-	-	4-6	4-6	1500
	Point of Ayre	1012.4	+12	WNW	4	bc	65	75	8	1	4	4	1	2-3	4000
13A	Tiree	1011.6	+6	NW'N	2	bc	60	75	8	1	3	6	2-3	2-3	2500
13B	Stornoway	1010.5	+6	NW	4	bc	59	75	8	5	3	-	4-6	4-6	2500
15	Dalwhinnie	1010.1	0	W	1	c	61	55	8	2	-	-	9	9	1500
	Aberdeen	1010.2	+14	SE	2	c/pr	59	85	8	8	-	-	9+	9+	1500
	Wick	1010.0	+8	E	3	c	56	92	8	5	7	8	4-6	9	1500
16	Lerwick	1010.4	+4	NE	4	c	55	85	8	5	7	-	4-6	7-8	2500
17	Blacksod Point	1014.2	-2	W	2	c	62	75	8	3	6	-	4-6	9	2500
18	Malin Head	1012.8	+6	SE'S	1	bc	58	75	8	2	-	4	2-3	4-6	5700
	Aldergrove	1012.0	-4	WNW	1	c	66	65	9	3	-	8	7-8	9	2500
19	Birr Castle	1013.6	-4	SW	1	c	64	65	8	8	1	-	7-8	10	1500
20	Valentia Obsy. †	1014.9	-6	W'N	3	c	60	75	9	2	1	-	2-3	10	2500
	Roches Point	1014.3	-4	WSW	2	c	60	85	9	8	-	5	4-6	7-8	2500

OBSERVATIONS at 18h. G.M.T. 25th July

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	-8	SW'S	3	c	62	75	8	8	2	-	4-6	10	2500	1	*
Croydon	1012.4	-6	SW	2	c	62	85	8	5	7	-	2-3	10	4000	0	*
S. Farnborough	1011.7	-8	SW'W	2	c	61	75	8	5	2	-	2-3	10	4000	1	*
Boscombe Down	1011.5	-12	-	0	c	61	75	8	7	2	-	7-8	10	1500	0	*
Calshot (Soton.)	1012.0	-12	WSW	2	c	61	85	7	5	7	-	4-6	10	5700	1	1
Lympne	1013.8	-6	WNW	1	[illegible]	58	85	8	5	2	-	9	10	4000	1	§ 2
Manston	1012.6	-6	SSW	2	c	61	75	8	5	2	-	7-8	10	2500	0	*
Shoeburyness	1012.6	-6	S	3	c	64	75	8	5	2	-	2-3	10	4000	0	*
Felixstowe	1012.0	-8	SSW	4	c	64	75	8	4	2	-	1	10	2500	1	2
Gorleston	1011.9	-6	-	0	c	65	75	7	5	-	-	10	10	2500	0	1
Mildenhall	1011.6	-6	SW	1	c	66	92	8	7	1	-	4-6	10	4000	0	*
Cranwell	1011.5	-4	W	1	z₀	65	55	6	8	7	-	7-8	10	4000	0	*
Birmingham	1011.2	-4	SW	2	c	65	45	8	8	7	-	9	9+	2500	1	*
Upper Heyford	1012.4	-4	WSW	2	c	63	65	8	5	7	-	7-8	10	4000	1	*
Ross-on-Wye	1011.2	-10	S'W	2	c	62	65	7	5	3	-	7-8	9+	4000	1	*
Hartland Point	1012.5	-10	NW	3	c	58	75	8	8	4	-	7-8	9	2500	0	2
Bristol	1011.8	-10	WNW	1	c	60	75	8	-	7	-	0	9+	-	1	*
Portland Bill	1012.2	-8	SW	2	c	58	92	8	5	7	-	4-6	10	4000	1	2
Plymouth	1011.9	-18	W	1	c	59	85	7	2	7	-	2-3	9+	2500	1	1
The Lizard	1012.8	-6	NNW	1	c	58	85	8	8	2	-	9	10	1500	0	2
Scilly (St. Mary's)	1012.8	-8	NNE	2	c	58	75	8	8	7	-	4-6	9+	1500	1	1
Guernsey																
Pembroke	1012.8	-6	NW	2	c	57	85	8	8	6	-	7-8	9+	2500	0	1
Holyhead	1012.1	-6	WSW	3	c	58	85	8	5	7	2	4-6	9+	5700	0	2
Chester (Sealand)	1012.1	-6	NW	2	c	59	75	8	5	1	-	9	9+	2500	0	*
Manchester	1011.8	-6	W	2	c	62	65	8	4	9	-	1	9+	4000	0	*
Spurn Head	1011.2	0	E	2	c	62	75	6	5	-	-	9+	9+	4000	0	1
Catterick	1010.4	-2	W'N	2	c	63	65	8	8	7	-	4-6	9+	5700	1	
Tynemouth	1011.0	+2	SSE	3	c	57	85	8	8	-	-	7-8	7-8	4000	1	1
St. Abbs Head	9997	-2	SE	4	bc	56	85	8	7	4	2	4-6	4-6	2500	0	2
Leuchars	1009.3	0	SE	3	c	62	65	8	2	7	6	4-6	7-8	2500	0	*
Renfrew (Abbots I.)	1010.5	-2	WNW	3	bc	63	65	9	8	7	8	1	4-6	4000	0	*
Eskdalemuir	1009.4	-2	NW'W	2	bc	63	55	8	8	-	2	2-3	4-6	2500	1	*
Point of Ayre	1011.6	-2	WNW	3	c	59	85	8	2	1	-	Tr	9+	2500	0	2
Tiree	1011.6	0	NW	2	bc	57	75	8	1	4	5	1	2-3	4000	0	2
Stornoway	1010.9	+4	WNW	4	c	57	85	8	5	4	6	4-6	7-8	2500	0	2
Dalwhinnie	1010.6	+2	WNW	1	c	59	55	8	2	6	2	4-6	9+	2500	0	*
Aberdeen	1010.6	0	SE'E	1	c	57	85	6	3	6	3	Tr	9	1500	1	1
Wick	1010.5	0	ESE	2	c	54	92	8	5	7	8	4-6	9+	1500	1	1
Lerwick	1011.1	+2	NE	4	bc	55	85	8	5	7	-	4-6	4-6	2500	0	*
Blacksod Point	1013.0	-4	W	2	c	59	75	8	8	-	-	9+	9+	2500	0	2
Malin Head	1012.6	-2	NNW	1	c	57	75	8	2	3	8	2-3	7-8	5700	0	1
Aldergrove	1011.9	+2	E'N	1	c/r	56	85	8	8	7	-	7-8	9+	2500	1	*
Birr Castle	1012.2	-6	SW	1	c	62	75	8	8	1	-	4-6	10	1500	1	*
Valentia Obsy. †	1013.8	-4	NW'N	3	c	59	75	9	8	7	-	4-6	9+	2500	0	2
Roches Point	1012.6	-10	W'S	2	c	59	75	9	8	1	-	7-8	9	1500	0	2

PAST 24 HOURS.

Stations	Weather 7h.–13h. 25th (37)	13h.–18h. 25th (38)	18h. 25th – 1h. 26th (39)	1h.–7h. 26th (40)
London (Kew)	bcmc⊕	cyc	cr₀	r₀cr₀r₀
Croydon	cm₀bc	cyc	cr₀r₀c	cr₀r₀O
S. Farnborough	bc	cyc	cr₀	cr₀r₀
Boscombe Down	bcc	cb	cr₀r₀mo	cr₀r₀mo
Calshot (Soton.)	cm⊕c	ccir₀	cir₀c	cir₀rrcbc
Lympne	cbcc⊕	c⊕cir₀	cr₀r₀c	crrmof
Manston	bcm₀bc	c	cir₀mo	rrr₀r₀
Shoeburyness	bccy	cyc	bccmorr	cmorr
Felixstowe	bbcvybc	bcc	ccir₀c	ir₀tpr₀rr
Gorleston	bbcy	bcyc	c	cotlrr
Mildenhall	bmwczbc	bcc	ccmor₀r₀	cmortlrr
Cranwell	bbccy	cy	cyzomo	cmor₀r₀
Birmingham	bbc	bcc	c	coRb
Upper Heyford	ccy	cyc	ccmoc	cir₀cbcmo
Ross-on-Wye	cbcc	cyc	ccmoO	cb
Hartland Point	bcc	c	c	cbcc
Bristol	bccy	cyc	c	cwbcbbc
Portland Bill	c	oc	orrc	cbc
Plymouth	c	c	c	cbcbmo
The Lizard	c	c	c	bc
Scilly (St. Mary's)	c	c	cbc	bcp₀bc
Guernsey				
Pembroke	c	c	cbc	bc
Holyhead	bcc	cbcc	c	cwb
Chester (Sealand)	bcc	cbcc	c	cbc
Manchester	c	cbcc	ccmow	cmofgm
Spurn Head	cbc	c	owcw	c
Catterick	cbcc	cybcc	cmo	cmocir₀
Tynemouth	bcc	cpc	coir	oir
St. Abbs Head	cbc	bc	rrc	rotlc
Leuchars	bcwcy	cybcc	cprcbc	bcc
Renfrew (Abbots I.)	bcwbbcc	cbccbc	cir₀c	cw
Eskdalemuir	cir₀cbc	bcy	bcyc	cw
Point of Ayre	bc	bcc	c	c
Tiree	bc	bc	bcc	c
Stornoway	cbc	bcc	c	c
Dalwhinnie	bc	bc		cir₀o
Aberdeen	cpr₀	cpr₀	cpr₀c	cr₀r₀
Wick	cpr₀c	pr₀r₀c	c	c
Lerwick	bcc	cbc	bc	bccw
Blacksod Point	c	c	prc	bc
Malin Head	bc	bccvc	c	ccbc
Aldergrove	bccpr₀c	cirr₀r₀	ir₀fgcw, m₀	cfgcmoF
Birr Castle	c	c	bc	bcc
Valentia Obsy. †	bcc	c	cbcbbcw	bcwcorpr₀c
Roches Point	bcc	c	p₀cbc	bbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. 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

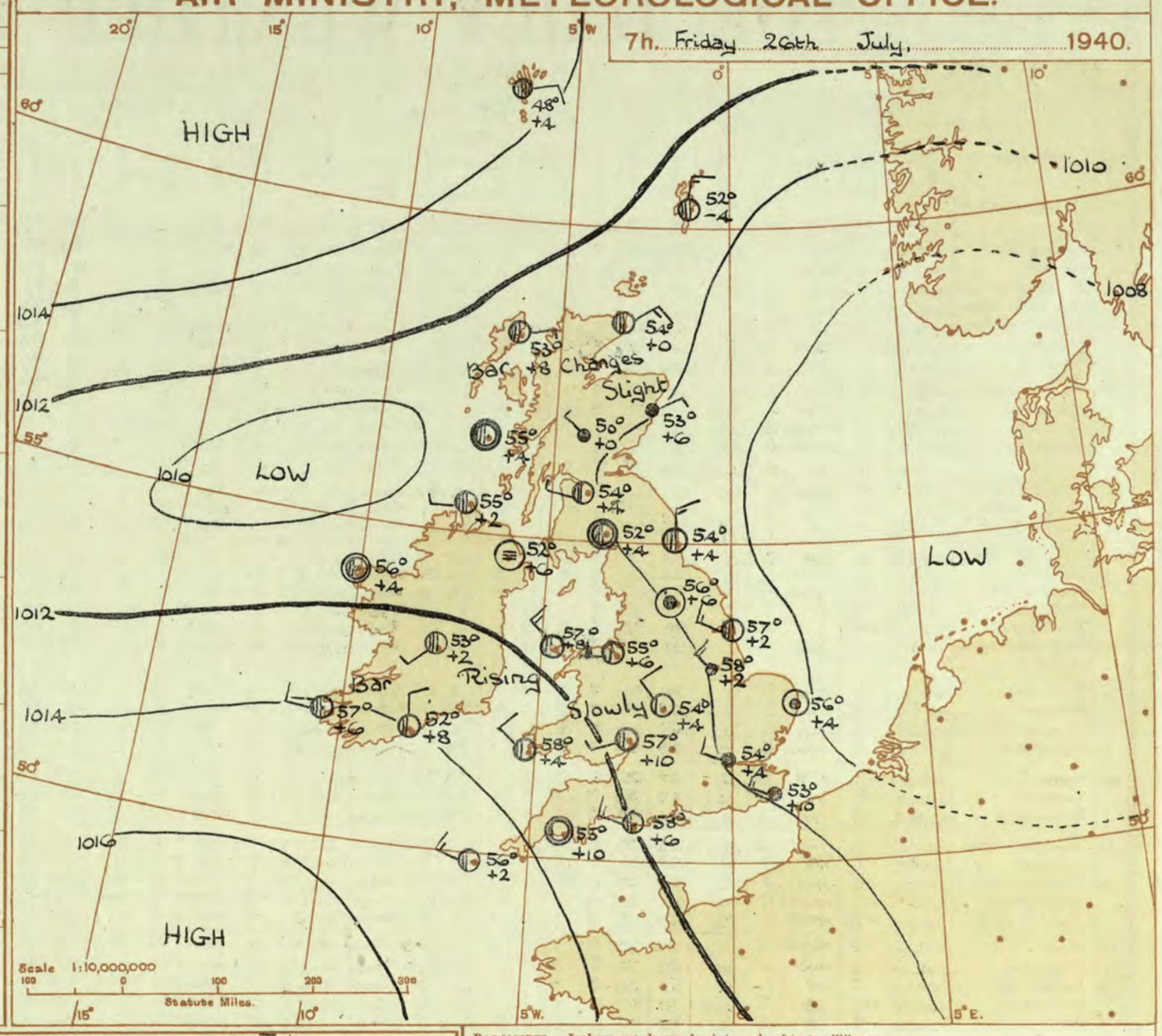
AVIATION WEATHER CODE

	13h. G.M.T. 25th July			18h. G.M.T.			01h. G.M.T. 26th July			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	02953	08327	77	02943	07126	03	02990	04125	13	01943	01213
115 52	81844	20850	62	81834	11885	62	02834	08485	67	02944	08425
203											
206 26	81955	08286	87	81955	08226	8-	02858	00088	02	64548	04168
210 86	81864	28326	86	02864	04325	53	02864	00260	8-	02848	08228
220 13	01954	27304	13	01953	26204				52	02845	26728
230 86	01954	22214	26	02951	28325	57	02851	26228	15	02941	00026
245 3-	10955	16325	96	81850	10226				6-	64638	03368
260 23	02964	30115				50	05663	24113			
277 26	01953	32425	17	02951	26428	57	02863	30157	87	01831	27324
279											
285									8-	03848	26168
288 87	02855	22327	87	02866	16288	52	08467	00028	07	05590	00053
273									46	01753	22105
301 23	02855	26326									
321 8-	05667	26327	57	05675	27227	57	05662	24114	02	05690	30328
299 50	01755	00015	5-	05647	10227	5-	05647	00027	87	02744	00016
292 86	81955	24287	77	02963	24386	57	02863	28127	53	05574	30317
310 --	02635	24415	--	02636	24226						
316 8-	05666	24216	47	02764	00027	57	02665	30328	57	22564	28168
333 25	02956	28226	17	02951	22227	5-	02866	28126	86	01843	30213
334 --	02855	22416	--	02754	26128					43364	00044
340 8-	02956	26226	87	02965	28117	62	61746	23268	50	01963	28114
136 26	01764	24414				87	05690	00027	52	05665	00088
336 --	01853	28414	--	01853	24414					02853	24416
350 20	02854	26215	71	02863	00027				07	61690	26288
368						57	02763	24127	27	01851	28202
379 10	02854	26226	81	02745	24128	5-	05667	22327	54	05652	28323
390 2-	02855	26216	82	05665	00028	82	81455	24288	52	64553	28268
382 20	02855	23228	83	25866	24187	57	05662	00028	87	05664	26166
438									8-	02755	24365
430 20	02863	20327	52	61862	20168	07	05690	00028	53	02755	24267
409 51	02852	32228	5-	02877	32227	52	22745	26328	5-	01845	25315

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 26th July, 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. 26th July, 1940.
1 S.E. England	Light west to northwest winds; bright periods; some thunderstorms; rather cool.
2 E. England ...	Wind northwest to variable, light; cloudy, local thunderstorms and occasional thundery rain; some early morning fog; cool
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light to moderate northwesterly wind; considerable bright periods; some thundery showers; rather cool.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Wind northwest to variable, light; variable sky; local thunderstorms; local early morning fog; cool.
9 N. Midlands ...	
10 N.E. England	Wind northerly to variable, light; cloudy; occasional thundery rain, local thunderstorms; some early morning fog; cool.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13 A. W. Scotld. B.N.W.Scotland.	Wind northeasterly, light; fair apart from scattered showers; rather cool.
14 Mid Scotland	As 10-12.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 8-9.
18 N. E. Ireland	
19 S. E. Ireland	As 4-7.
20 S. W. Ireland	

GENERAL INFERENCE.

A complex low pressure area which covers most of Northwest Europe will maintain unsettled cool weather, with local thunderstorms and occasional thundery rain. There will be some bright periods in many districts, especially in the southwestern half of the country. Fog will occur in places in the early morning

FURTHER OUTLOOK.

Continuing unsettled and thundery.

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.
C.64/2900 m. 8049. D 3705. G. 948. 15803. 8/40

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 26th July 1940.

No. 28,736

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

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	1010·1	-6	-	0	ro ro	57	97	6	5	-	-	10	10	5700
	S. Farnborough	226	1009·1	-10	W'S	1	c/pr	56	92	6	5	3	-	7-8	9	4000
	Boscombe Down	417	1009·6	-10	WNW	1	ro ro	54	85	6	6	2	-	7-8	10	2500
	Calshot (Sthmtn.)	8	1009·4	-12	NNW	2	c	57	85	7	-	7	-	0	10	-
	Lympne ...	346	1010·0	-14	SSE	1	c	55	92	8	5	-	-	10	10	4000
	Manston ...	154	1008·7	-16	SE	1	ir o	56	85	6	5	2	-	4-6	10	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1008·9	-16	SSW	1	c	60	85	7	5	7	-	2-3	9+	4000
	Gorleston ...	5	1009·0	-14	-	0	c	61	85	6	5	-	-	9+	9+	2500
	Mildenhall ...	19	1008·4	-16	W'S	2	ro ro	58	92	6	5	-	-	9+	9+	4000
	Cranwell ...	240	1009·9	-8	-	0	zo	57	85	6	5	-	-	10	10	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1009·4	-10	N	1	c	55	85	7	5	7	-	7-8	10	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011·2	-2	NW	3	c	56	85	8	8	-	-	9	9	2500
	Bristol ...	209	1009·7	-12	WSW	2	c	54	85	7	-	7	-	0	9+	-
	Portland Bill ...	32	1010·2	-10	WSW	2	c	56	92	8	5	-	-	10	10	4000
	Plymouth ...	82	1011·7	+2	NW'W	1	c	55	85	7	5	3	-	2-3	9+	4000
	The Lizard ...	240	1012·5	+6	NW	3	c	53	92	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1012·8	-2	NW'N	2	bc	54	85	8	5	4	2	2-3	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	1011·0	0	NW'N	2	bc	56	92	8	5	7	-	2-3	4-6	2500
7	Holyhead ...	26	1010·6	-2	-	0	c	55	85	7	8	3	-	9	9	2500
	Chester (Sealand)	16	1010·3	-6	WNW	2	c	53	92	7	5	3	-	4-6	9	5700
8	Manchester ...	70	1010·1	-8	-	0	zo	52	97	6	5	7	-	4-6	10	4000
10	Spurn Head ...	29	1009·2	-12	-	0	c	57	92	6	5	-	-	9+	9+	4000
	Catterick ...	175	1009·7	-6	-	0	zo	54	92	6	5	2	-	4-6	10	4000
	Tynemouth ...	108	1010·5	-6	W	3	c/r	55	92	6	-	2	-	10	10	1500
11	St. Abbs Head	280	1009·7	0	WNW	1	ro ro	53	85	8	8	2	-	7-8	10	1500
	Leuchars ...	36	1009·6	-4	N	1	bc	53	92	7	5	3	-	2-3	4-6	4000
12	Renfrew (Abbots I.)	19	1010·2	-4	W'S	2	c	51	85	8	5	1	-	1	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1010·7	-6	N'W	3	c	56	97	8	6	1	-	4-6	9+	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1010·7	-2	SSW	3	c	51	97	7	5	7	-	7-8	9	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1010·8	-2	NE	3	c	53	85	7	5	7	8	7-8	9+	1500
16	Lerwick ...	156	1012·1	+2	N	3	bc	48	97	8	5	4	-	2-3	4-6	2500
17	Blacksod Point	18	1011·5	-10	-	0	PR	55	92	8	6	-	-	9	9	800
18	Malin Head ...	84	1011·4	-8	W	2	c	54	85	8	2	-	-	7-8	7-8	4000
	Aldergrove ...	268	1011·2	-2	-	0	c	50	92	7	-	7	-	0	9	-
19	Birr Castle ...	173	1012·5	-2	WSW	1	bc	49	97	8	-	-	5	0	4-6	-
20	Valentia Obsy.	30	1014·7	-2	NE	1	bc	49	92	8	2	-	-	2-3	2-3	1500
	Roches Point	22	1012·8	-2	NW'W	3	bc	54	85	8	5	3	-	2-3	4-6	2500

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

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)	1009·5	+10	WSW	1	ro ro	55	92	5	6	2	-	7-8	10	1500	1	*
	Croydon ...	1009·3	+4	WNW	2	ro ro	54	97	6	5	2	-	7-8	10	2500	1	*
	S. Farnborough	1009·4	+6	W	2	ir o	54	97	7	8	7	-	1	9+	4000	1	*
	Boscombe Down	1010·5	+10	NNW	3	zo	54	85	6	-	-	-	0	0	-	1	*
	Calshot (Sthmtn.)	1010·2	+6	NW	3	b	56	85	7	1	4	-	1	1	2500	1	
	Lympne ...	1010·0	+10	W'N	3	rr	53	97	5	6	2	-	9	10	1500	1	§3
	Manston ...	1008·7	+8	W'S	2	rr	54	97	5	7	-	-	10	10	5700	1	*
2	Shoeburyness ...	1009·4	+12	WNW	1	rr	55	92	5	6	2	-	7-8	10	450	1	*
	Felixstowe ...	1008·1	+2	NW	3	rr	55	92	5	6	2	-	7-8	10	800	1	1
	Gorleston ...	1008·5	+4	-	0	ro ro	56	92	6	6	-	-	10	10	800	1	2
	Mildenhall ...	1008·6	+8	SW'S	3	rr	54	97	5	6	2	-	7-8	10	1500	1	*
	Cranwell ...	1009·3	+2	NW	3	ro ro	58	97	6	5	-	-	10	10	2500	1	*
3	Birmingham ...	1010·6	+4	NW	2	b	54	85	6	-	4	-	0	Tr	-	1	*
	Upper Heyford	1010·3	+12	NW	2	zo	53	92	6	5	3	-	4-6	4-6	4000	1	*
4	Ross-on-Wye	1010·9	+10	W'S	1	b	57	85	8	7	-	-	Tr	Tr	4000	1	*
5	Hartland Point	1012·2	+14	NW	3	c	57	85	8	2	6	-	2-3	7-8	2500	0	2
	Bristol ...	1011·4	+14	NW	2	bc	57	85	7	1	4	-	2-3	2-3	4000	1	*
	Portland Bill ...	1011·1	+6	WNW	3	bc	58	85	8	1	-	-	2-3	2-3	4000	1	3
	Plymouth ...	1012·7	+10	-	0	bc	55	92	6	2	-	-	2-3	2-3	4000	0	1
	The Lizard ...	1014·1	+10	NW	4	bc	57	85	8	8	-	-	4-6	4-6	2500	0	2
	Scilly (St. Mary's)	1014·4	+2	NW'W	3	bc	56	85	8	8	-	-	2-3	2-3	2500	1	1
	Guernsey ...																
6	Pembroke ...	1012·4	+4	NW	2	bc	58	97	8	1	4	-	2-3	2-3	2500	0	1
7	Holyhead ...	1011·0	+8	NW	3	bc	57	85	8	8	3	1	1	2-3	800	0	2
	Chester (Sealand)	1010·5	+6	W	3	c	55	85	8	2	3	4	1	7-8	4000	1	*
8	Manchester ...	1010·0	+6	NW	2	thr	55	92	5	9	-	-	9	9+	1500	1	*
10	Spurn Head ...	1008·4	+2	WNW	3	c	57	92	6	5	-	-	9	9	1500	0	1
	Catterick ...	1009·7	+6	-	0	ir o	56	85	8	5	7	-	4-6	10	5700	0	*
	Tynemouth ...	1010·1	+4	N	3	c/r	54	92	6	8	2	-	4-6	9+	2500	1	1
11	St. Abbs Head	1009·5	+4	NW	2	c	53	85	7	8	2	-	7-8	10	800	1	1
	Leuchars ...	1009·5	+2	NNE	1	c	54	97	7	5	2	-	4-6	10	450	0	*
12	Renfrew (Abbots I.)	1010·2	+4	W'N	1	c	54	85	8	5	7	2	2-3	9	2500	0	*
	Eskdalemuir ...	1009·6	+4	-	0	c	52	85	8	-	3	-	0	9	-	1	*
	Point of Ayre ...	1010·8	+4	NW'W	3	c	56	92	8	8	1	6	4-6	7-8	1500	0	2
13A	Tiree ...	1010·4	+4	-	0	c	55	85	8	5	3	-	4-6	7-8	2500	1	2
13B	Stornoway ...	1011·6	+8	ENE	1	c	53	97	8	5	7	-	7-8	9+	1500	1	1
15	Dalwhinnie ...	1011·0	0	NW	1	ir o	50	97	7	5	-	-	10	10	800	1	*
	Aberdeen ...	1010·6	+6	NE	1	ro ro	53	92	7	6	2	-	9-	9+	1500	1	1
	Wick ...	1010·7	0	NE	3	c	54	85	8	8	7	6	4-6	7-8	800	1	2
16	Lerwick ...	1011·2	-4	N'E	3	c	52	92	8	5	7	-	4-6	7-8	1500	0	*
17	Blacksod Point	1011·9	+4	-	0	bc	56	85	8	2	-	-	4-6	4-6	1500	1	2
18	Malin Head ...	1010·9	+2	W	1	c	55	85	8	2	7	-	2-3	7-8	5700	0	2
	Aldergrove ...	1011·3	+6	-	0	F+	52	97	1	-	-	-	10	10	<150	1	*
19	Birr Castle ...	1012·7	+2	SW	1	c	53	92	8	5	-	-	7-8	7-8	2500	1	*
20	Valentia Obsy.	1014·1	+6	WNW	2	c/pr	57	85	8	8	-	-	9+	9+	2500	1	1
	Roches Point	1014·0	+8	N	2	bc	52	85	8	5	-	-	4-6	4-6	2500	0	1

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 25th Hrs. (36)
London (Kew)	68	54	52	-	2	6·6
Croydon ...	70	53	52	-	1	7·3
S. Farnborough	70	53	51	-	0·4	6·1
Boscombe Down	69	53	50	-	0·4	4·0
Calshot (Sthmtn.)	67	52	50	-	0·4	4·0
Lympne ...				Tr	0·5	
Manston ...	65	53	52	Tr	5	6·6
Shoeburyness ...	65	54	53	-	2	8·6
Felixstowe ...	71	53	53	-	6	8·0
Gorleston ...	70	55	55	-	5	9·3
Mildenhall ...	67	54	52	-	5	9·9
Cranwell ...	70	54	53	-	7	8·7
Birmingham ...	69	52	51	-	1	9·4
Upper Heyford	67	51	48	-	3	10·0
Ross-on-Wye	68	53	51	-	0·2	*
Hartland Point	66	53	47	-	-	6·9
Bristol ...	61	55	51	-	-	2·4
Portland Bill ...	63	52	43	-	-	5·5
Plymouth ...	61	56	*	-	0·1	*
The Lizard ...	63	52	47	-	-	1·7
Scilly (St. Mary's)	61	52	*	-	-	0·1
Guernsey ...	62	52	*	-	0·5	1·9
Pembroke ...	60	53	*	-	-	3·3
Holyhead ...	63	53	46	-	-	8·4
Chester (Sealand)	65	54	50	-	-	7·7
Manchester ...	66	50	47	-	0·4	4·9
Spurn Head ...	70	54	*	-	-	8·0
Catterick ...	67	53	51	-	Tr	3·4
Tynemouth ...	65	54	52	Tr	2	*
St. Abbs Head	62	53	*	-	1	*
Leuchars ...	69	52	49	-	0·4	8·1
Renfrew (Abbots I.)	67	48	46	-	Tr	10·6
Eskdalemuir ...	66		41	0·1	1	6·6
Point of Ayre ...	65	54	*	-	-	8·8
Tiree ...	60	51	*	-	-	14·8
Stornoway ...	60	50	*	-	6	11·4
Dalwhinnie ...	64	46	43	-	1	5·0
Aberdeen ...	62	52	49	4	4	5·2
Wick ...	57	50	*	2	-	*
Lerwick ...	58	47	*	-	-	8·0
Blacksod Point	63	54	*	-	4	*
Malin Head ...	60	48	*	-	-	10·1
Aldergrove ...	67	42	42	1	Tr	4·5
Birr Castle ...	66	44	40	-	-	6·3
Valentia Obsy.	61	48	43	-	0·5	3·6
Roches Point	63	50	*	-	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	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	bcmo c⊕	cyc	cro ro	68	54	52	-	2	6·6	•	•	6
Croydon ...	217	cmobc	cyc	cro ro o	70	53	52	-	1	7·3	•	•	6
Greenwich (Royal Observatory) ...	149	cmo	cy	cr cr r cm	72	53	52	-	4	7·4	53	87	5
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	69	54	54	2	•	6·7	69	91	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•		53	52	-	2		75	88	•
Camden Square ...	110	bc	c	•	69	54	52	-	2	•	•	82	•
Kensington ...	80	bcc	c	•	70	54	53	-	2			95	•
Hampstead Observatory ...	450										•		•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 26th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	3-7h 26th	<0·1	rest of period

FOREIGN OBSERVATIONS.

18h. G.M.T. 25th July — 7h. G.M.T. 26th July

Stations	18h. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. 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

Saturday 27th July, 1940.

No. 28,676.

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

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)...	1013·2	+12	N	1	cjp	62	65	7	8	3	-	7-8	9	4000
	Croydon	1012·6	+14	WNW	2	c	67	65	7	3	6	-	4-6	7-8	2500
	S. Farnborough	1012·6	+12	NW'N	3	bc	69	45	8	2	-	-	4-6	4-6	4600
	Boscombe Down	1013·5	+10	NW	3	bc	66	55	8	8	-	-	4-6	4-6	4000
	Calshot (Soton.)	1013·5	+14	NW	3	c	68	56	8	8	-	-	7-8	7-8	4000
	Lympne ...	1013·1	+22	WNW	2	bc/pr	63	65	7	2	-	-	4-6	4-6	1500
	Manston ...	1012·2	+18	WNW	4	zo	65	75	6	1	-	-	2-3	2-3	1500
2	Shoeburyness ...	1012·6	+12	NNW	1	bc	67	65	7	2	-	-	2-3	2-3	4000
	Felixstowe ...	1011·4	+10	NW'W	3	bc	66	55	8	2	4	-	4-6	4-6	2500
	Gorleston ...	1010·8	+18	NNW	3	tlr	62	75	6	9	-	-	9	9	1500
	Mildenhall ...	1011·9	+16	W'S	4	ct	64	85	7	3	3	3	4-6	7-8	2500
	Cranwell ...	1011·7	+12	NW	2	c	66	65	6	5	-	-	7-8	7-8	4000
3	Birmingham	1012·5	+10	WNW	3	bc	65	45	8	7	-	-	4-6	4-6	4000
	Upper Heyford	1012·3	+10	WNW	3	bc	68	55	9	8	6	-	4-6	4-6	2500
4	Ross-on-Wye ...	1012·9	+8	WNW	2	bc	67	65	9	2	-	-	4-6	4-6	4000
5	Hartland Point	1015·7	+14	WNW	3	bc	61	85	8	2	6	-	2-3	4-6	2500
	Bristol	1013·8	+10	W'N	3	bc	66	65	8	8	6	-	4-6	4-6	4000
	Portland Bill ...	1014·6	+16	SW	3	bc	60	85	8	5	-	-	4-6	4-6	4000
	Plymouth ...	1015·5	+14	W	3	bc	65	55	8	2	-	-	4-6	4-6	2500
	The Lizard ...	1017·0	+20	W'N	4	bc	64	75	8	2	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	1017·4	+14	W'N	2	bc	66	65	8	8	2	-	4-6	4-6	2500
	Guernsey ...														
6	Pembroke ...	1015·5	+8	WNW	3	bc	60	85	8	2	4	-	2-3	2-3	2500
7	Holyhead ...	1013·7	+10	WNW	3	bc	61	75	8	8	-	4	2-3	4-6	2500
	Chester (Sealand)	1013·2	+12	NW	5	bc	63	55	8	2	-	4	1	2-3	2500
8	Manchester ...	1012·4	+10	W'N	4	bc	65	55	8	1	4	1	2-3	2-3	4000
10	Spurn Head ...	1011·3	+14	N'E	3	c	64	75	7	1	4	6	4-6	7-8	7200
	Catterick ...	1012·0	+10	WSW	2	pr	61	65	8	9	-	-	9	9	1500
	Tynemouth ...	1001·4	+4	E	3	bc/pr	60	85	7	2	3	-	2-3	4-6	2500
11	St. Abbs Head	1011·8	+14	NNE	1	rfo	53	92	8	8	2	-	7-8	10	1500
	Leuchars ...	1011·3	+2	E	2	rofo	53	92	7	5	1	-	7-8	10	800
12	Renfrew (Abbots I.)	1011·1	+4	NW'W	3	bc	66	46	9	3	6	3	2-3	4-6	4000
	Eskdalemuir ...	1009·4	+8	W	2	bc/pr	62	55	8	8	-	-	4-6	4-6	2500
	Point of Ayre ...	1012·9	+8	WNW	3	bc	64	75	8	2	-	4	1	2-3	2500
13A	Tiree	1012·1	+4	NW	2	bc	64	65	8	7	3	5	2-3	4-6	4000
13B	Stornoway ...	1013·6	+12	NE	5	c	55	85	9	5	7	-	4-6	9	2500
15	Dalwhinnie ...	1012·6	+12	N	1	c	52	86	7	5	-	-	10	10	800
	Aberdeen ...	1012·6	+12	SE	2	c	58	75	8	3	9	3	4-6	9	1500
	Wick	1012·7	+10	NE	3	c	54	85	8	8	6	6	4-6	9	800
16	Lerwick... ...	1012·7	+8	NE	4	c	55	75	8	6	3	-	4-6	7-8	1500
17	Blacksod Point...	1013·1	+6	SW	1	c	58	75	8	-	6	-	0	7-8	-
18	Malin Head ...	1012·6	+10	W	3	c/pr	56	75	8	8	-	-	7-8	7-8	5700
	Aldergrove ...	1012·2	+4	SW'W	2	pr	62	56	9	3	6	3	7-8	9	2500
19	Birr Castle ...	1013·2	+2	W'N	1	c	65	45	8	2	-	5	4-6	9	1500
20	Valentia Obsy. †	1015·8	+6	W	4	c	61	65	9	2	-	4	2-3	7-8	2500
	Roches Point ...	1015·2	+8	NW'W	3	c/pr	55	92	8	3	1	-	7-8	9	1500

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

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)	1014·0	+8	W'S	3	bc	69	45	8	8	-	1	4-6	4-6	4000	1	*
Croydon	1013·8	+8	W	3	bc	69	55	8	2	6	-	2-3	4-6	4000	0	*
S. Farnborough	1014·0	+6	W'S	2	bcjp	68	55	8	3	4	3	4-6	4-6	2500	0	*
Boscombe Down	1014·9	+10	W'N	3	bc	65	55	9	8	3	-	2-3	4-6	4000	0	*
Calshot (Soton.)	1014·6	+6	WSW	4	c/pr	65	75	8	8	3	-	4-6	7-8	4000	1	3
Lympne	1014·8	+6	SW'S	2	bc	63	75	8	2	6	-	2-3	4-6	2500	1	§2
Manston	1014·0	+8	N'W	1	z	65	65	6	2	6	-	2-3	7-8	2500	0	*
Shoeburyness	1013·8	+4	-	0	bc	66	65	8	4	-	-	2-3	2-3	4000	1	*
Felixstowe	1013·3	+10	WNW	3	c	65	55	8	2	6	-	2-3	7-8	2500	1	2
Gorleston	1013·7	+12	SW'S	2	c	58	85	6	8	-	-	9+	9+	2500	1	2
Mildenhall	1013·7	+10	NNW	3	c	64	85	8	8	7	-	4-6	9	4000	1	*
Cranwell	1013·6	+6	E	2	bc	58	75	7	8	3	-	2-3	2-3	4000	1	*
Birmingham	1013·5	+6	NW	2	c	62	55	8	8	7	-	7-8	9	2500	1	*
Upper Heyford	1013·5	+2	WSW	2	c	64	55	8	3	6	4	7-8	7-8	2500	1	*
Ross-on-Wye	1014·2	+10	W	3	c	63	65	8	8	-	7	7-8	9+	2500	1	*
Hartland Point	1016·1	0	W	3	bc	62	75	9	4	4	3	4-6	4-6	2500	0	2
Bristol	1015·1	+8	W	4	c	61	75	8	8	9	6	2-3	9	4000	0	*
Portland Bill	1015·5	+8	WSW	3	bc	62	85	8	5	4	-	4-6	4-6	4000	1	3
Plymouth	1016·5	+2	W	3	bc	63	65	9	1	4	-	2-3	4-6	4000	0	2
The Lizard	1017·3	+2	W'S	3	bc	61	75	8	2	4	-	2-3	4-6	2500	0	2
Scilly (St. Mary's)	1017·4	-2	WSW	3	c	62	75	8	8	4	3	4-6	7-8	2500	0	2
Guernsey																
Pembroke	1015·4	+2	W'N	4	pr	59	85	8	8	7	1	4-6	9	2500	0	2
Holyhead	1013·7	-2	SSW	4	c	58	85	9	8	4	2	4-6	9+	4000	0	2
Chester (Sealand)	1014·1	+8	NW	2	c/pr	61	65	8	2	-	2	4-6	9	4000	1	*
Manchester	1013·8	+10	WNW	3	c	63	55	8	7	9	4	2-3	7-8	4000	0	*
Spurn Head	1013·0	+2	S	2	bc	60	85	8	-	4	5	0	4-6	<150	1	1
Catterick	1012·9	+8	NE'N	1	c	59	75	8	8	6	5	4-6	7-8	2500	1	
Tynemouth	1013·6	+12	N	3	c/pr	54	85	6	8	-	-	9+	9+	2500	1	2
St. Abbs Head	1013·4	+10	NNE	2	c	55	85	8	3	6	-	7-8	9	1500	1	1
Leuchars	1013·2	+2	E	2	bc	58	75	7	2	6	-	1	2-3	4000	1	*
Renfrew (Abbots I.)	1013·6	+16	ESE	2	r/tlr	56	85	7	5	7	-	9	10	2500	1	*
Eskdalemuir	1013·3	+12	E'N	1	tlr	53	85	7	9	-	-	10	10	800	1	*
Point of Ayre	1013·6	+2	W	4	c	61	75	8	2	4	6	1	9	2500	0	2
Tiree	1013·3	+4	NNW	1	bc	58	75	8	1	3	5	1	2-3	4000	0	1
Stornoway	1015·2	+10	SE'E	4	c	55	75	8	5	7	7	2-3	10	2500	1	2
Dalwhinnie	1018·1	+10	N	2	ir	52	75	7	5	4	-	4-6	7-8	1500	1	*
Aberdeen	1014·1	+8	NE'E	1	c	55	75	8	8	7	8	4-6	9+	2500	1	1
Wick	1014·4	+6	NE	3	c	54	85	8	8	4	9	4-6	7-8	800	1	2
Lerwick	1014·4	+8	N'E	4	c	52	85	8	8	7	-	7-8	9	800	0	*
Blacksod Point	1014·0	+4	W	2	bc	58	75	8	3	-	9	2-3	4-6	2500	0	2
Malin Head	1013·4	+2	E	1	bc	58	75	8	2	-	4	2-3	4-6	5700	0	0
Aldergrove	1013·3	+10	E'N	2	c/pr	55	85	8	9	1	-	4-6	10	2500	1	*
Birr Castle	1013·6	+2	SW	1	c	61	55	8	2	1	-	2-3	10	1500	1	*
Valentia Obsy. †	1016·2	0	W'N	4	pr	58	75	8	8	-	3	7-8	9+	2500	0	3
Roches Point	1015·2	-2	NNW	2	c	58	85	8	3	4	5	4-6	7-8	1500	1	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. (37)	13h.—18h. (38)	18h. to 1h. (39)	1h.—7h. (40)
London (Kew)	cpro cjp	cbcy	bcyc	obcw
Croydon	cmobczo	bcy	bdbcc	obcb
S. Farnborough	cro bcy	bcy	bc	obwbc
Boscombe Down	bc	bcypobc	bcy bcc	cbcrrbcc
Calshot (Soton.)	bzobcy	bcycprbc	bccbcw	bccprbc
Lympne	crobcpro	bcybc	bcbzw	cwbcb
Manston	RRbcmo	bmobcm	bcmol	cmopro
Shoeburyness	crrbc	bcybc	tlrrRR	cprRbc
Felixstowe	oirbc	bcycproc	bccTlrq	c,mopro
Gorleston	ororoctlr	ctlrR	ctlrbcc	czooiro
Mildenhall	omorrct	cbcmz	ctlrmobc	bcpromoz
Cranwell	cmororoc	tlrq,bc	ctlrcmo	ctlrcmo
Birmingham	bbc	bcc	c	corr
Upper Heyford	bccmcbc	bcc	ctlrocirm	bclfroror
Ross-on-Wye	bbccPc	bcrycy	cbcl	Rorr
Hartland Point	cbc	bc	irlbc	bcrr
Bristol	bccbc	bcc	bcctlr	
Portland Bill	bc	bcbc	bcc	cc
Plymouth	bmobcy	pbcy	cbc	bclbcmo
The Lizard	bc	bc	bc	bcpr
Scilly (St. Mary's)	bc	bc	cpoqbc	bcpbc
Guernsey				
Pembroke	bc	bcc	prlc	c
Holyhead	bbc	bcc⊕	crorc	tlrRc
Chester (Sealand)	bcy	bcPRoro	clro	oRRmorrc
Manchester	tlrrrprbc	bcy	cmolpro	cmororo
Spurn Head	c	c	ecid	oiroo
Catterick	irotlh	prproc	cmolbc	cmo
Tynemouth	cpt	bccP+l	cpocbc	bc
St. Abbs Head	lcrrc	roc		rc
Leuchars	cRRtrro	crocbc	bcc	ciroc
Renfrew (Abbots I.)	bcwcbcy	ctlruR	cRgcmbc	bcfgcw
Eskdalemuir	cbcy	bcctlr	ctlrroro	c
Point of Ayre	b	c	cbcl	bc
Tiree	cbc	bc	bc	bc
Stornoway	cprt	c	c	cbcc
Dalwhinnie	ciro	cbc		c
Aberdeen	roroc	cjpc	c	cbcw
Wick	c	c	cbc	bcc
Lerwick	bcc	cpro	cpro	c
Blacksod Point	bcc	bc	cbc	bc
Malin Head	cjpc	ccvbc	bc	cbcbc
Aldergrove	FFcbc	procjppo	ccirc	ccirc
Birr Castle	cy	cy		bcb
Valentia Obsy. †	cproc	cpro	cprobcbbc	bcbbc
Roches Point	PRc	tlPRc	prcbc	bcb

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.*

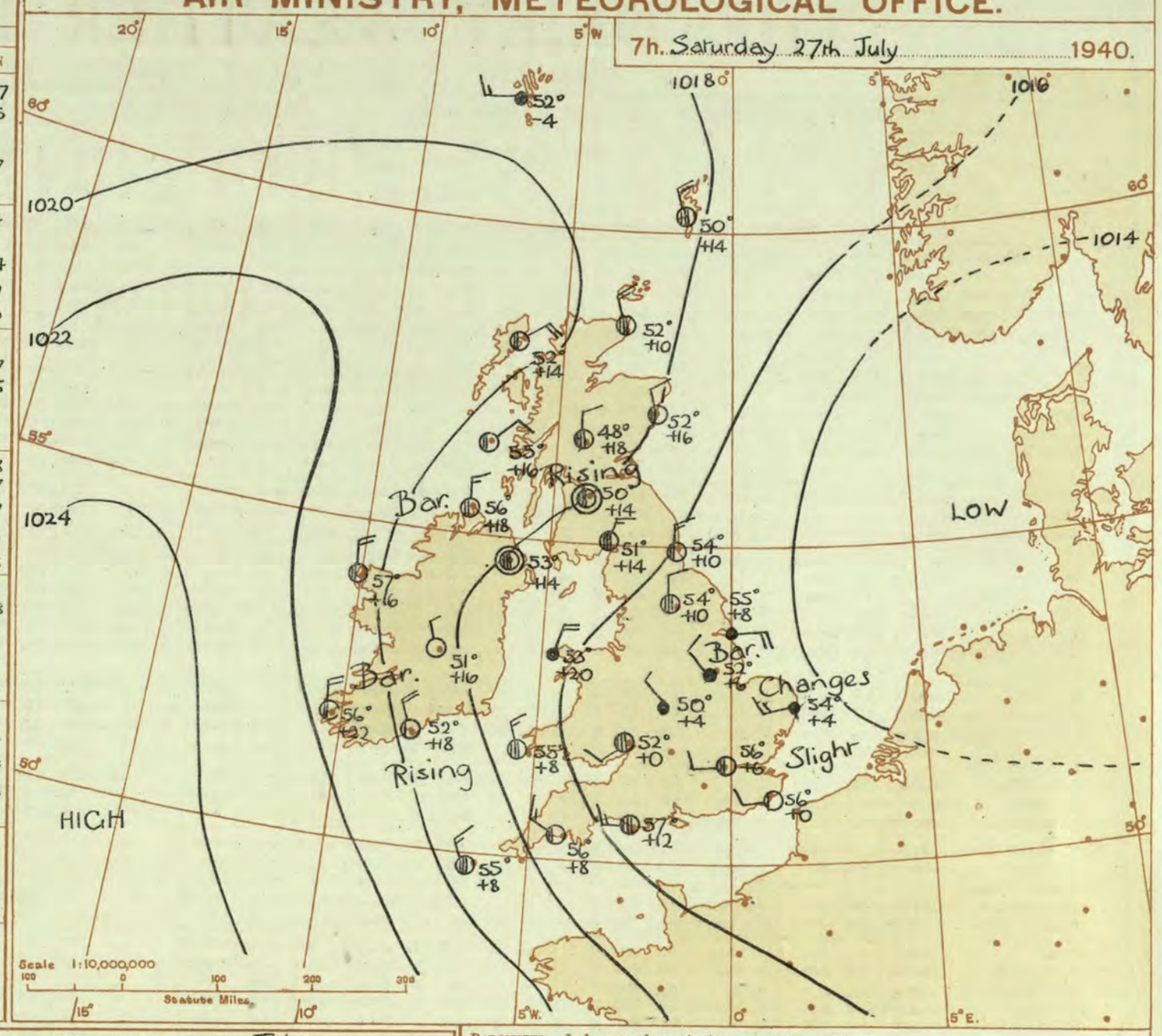
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 27th July 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 26th July,			18h. G.M.T.			01h. G.M.T. 27th July			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	02954	02315				70	01864	30214	5-	02957	28327
115	87	01954	06425	87	02953	04325	87	01843	04425	51	01954	02215
203												
206	57	62845	06167	82	02855	00067	52	02846	00088	73	02966	03127
210	57	02953	03286				87	02844	04126	83	01954	32415
220	73	01854	23264							24	01842	03414
230	87	01954	20314	36	01963	24214	4-	00962	00002	53	01962	00013
245	62	62835	04268	87	01844	09267	52	02867	31168	83	01952	32464
260	9-	91638	08308				5-	22646	00066	8-	81847	32127
277	34	02955	30326	36	02854	18227	57	01861	27115	87	17861	30113
279												
285	34	25844	24484							5-	02747	24227
288	86	28863	08104	8-	82557	32227	57	08463	00084	53	05554	32225
273	78	01862	23303							10	00861	28101
301	2-	01853	28315	33	02853	26315	6-	64648	28198	87	61654	12167
321	83	25754	32285	86	01763	12394	57	05673	25113	57	05655	29228
299	87	25644	32285	87	01743	00013	50	05643	00013	5-	01747	32317
292	86	28656	32307	87	01853	26185	51	08464	00027	53	08465	30327
310				--	01635	26315				--	02636	24426
316	93	25654	28104	86	02664	02294	57	02663	20125	58	08464	26128
333	80	01963	28314	67	01954	24467	57	07863	00027	86	10844	30325
334	--	01855	26315	--	02862	26316				--	02757	00028
340	20	01954	28214	34	28955	30196	5-	02856	14226	8-	21856	00087
136	27	05653	26296	52	91664	02198	52	63675	20168	57	62674	00067
336	--	01852	28414	--	01852	28414				--	02854	24527
350	83	01755	26325	87	02855	10286						
368	20	01854	24314	26	02952	24426	6-	31648	29298	87	25746	24287
379				9-	05848	26298	54	05653	26414	57	22744	26167
390	83	25654	24384	84	02755	00015	53	05653	28216	53	05564	24225
382	26	01864	27314	86	10865	22227	07	02790	00024	87	01754	25125
438	86	01753	23314							80	01845	24215
430	23	01764	26315	26	00863	22413	5-	01875	24215	23	05662	25113
409	8-	01955	24315	74	01954	24314				80	25944	62424

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 July, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light westerly wind, veering northwest to north, moderate; cloudy, thunderstorms and thundery rain; fairer conditions spreading slowly from the northwest; local fog night and early morning; cool
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Wind north, moderate, backing northwest; bright periods; some local thundery showers or thunderstorms; fair tomorrow; rather cool.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind northerly, light to moderate, backing slowly; mainly cloudy; thundery showers with chance of local thunder; cool.
13 {A. W. Scotld. B.N.W.Scotland.} 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Wind north, light to moderate, backing west; bright periods especially in the West; local showers; very cool today.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light to moderate northerly winds; considerable bright periods; local thundery showers today; rather cool.

GENERAL INFERENCE.

Pressure is high to the west of the British Isles and low to the eastward. A trough of low pressure from Eastern England across the country to North Ireland is moving slowly south, and further secondary disturbances are expected to move down from the north. There will be widespread thunderstorms and thundery rain in many parts of England today, but improving conditions will spread slowly southwards. Elsewhere there will be bright periods and local thundery showers.

FURTHER OUTLOOK.

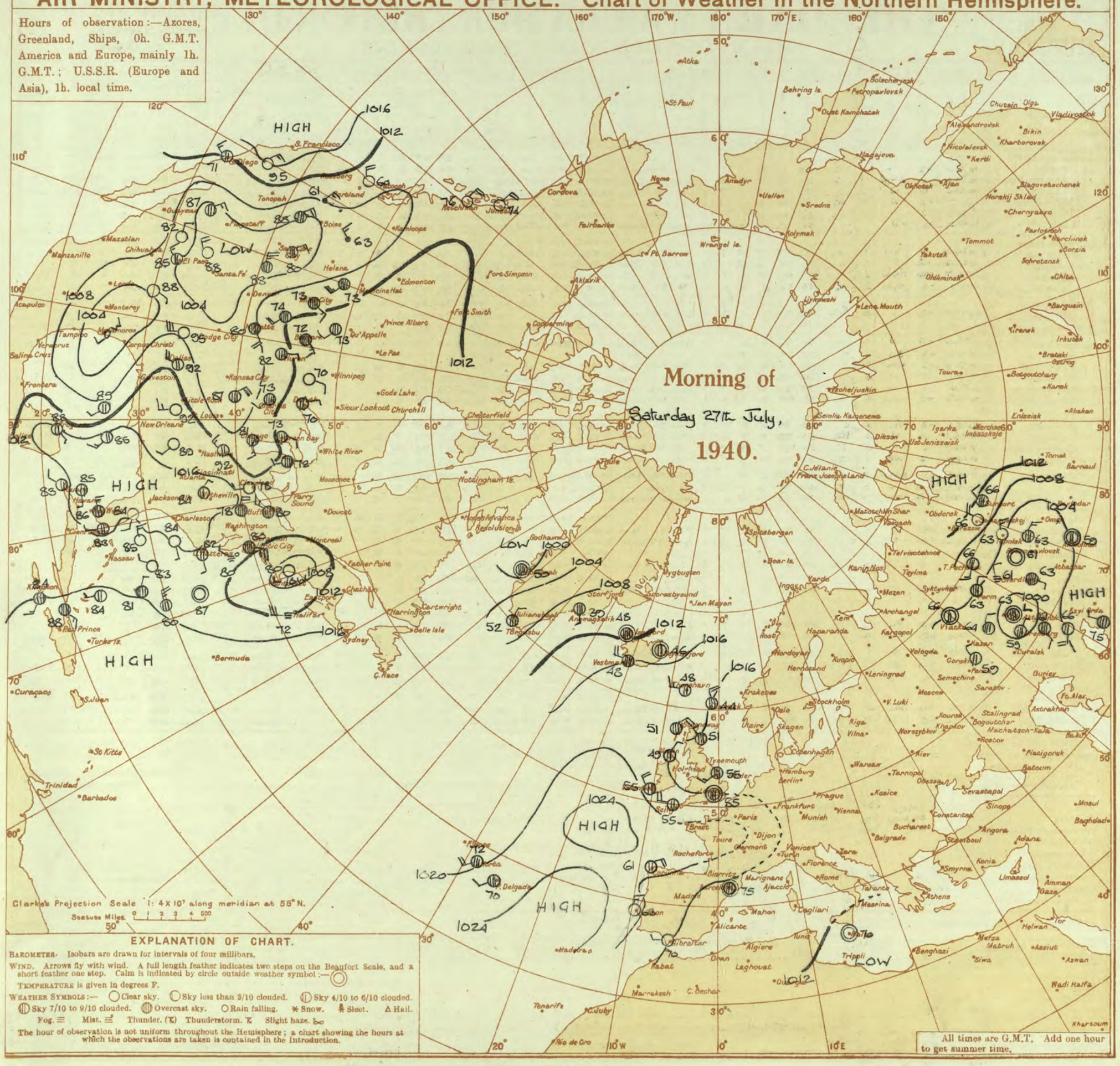
Probably fair in the West; cool and showery in the East.

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.
C.64/5902.m.6049.0.3703.G.248.15802.E/40

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 27th July 1940.

No. 28,676

OBSERVATIONS at 1 hr. G.M.T. 27th July

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	10 15.4	+2	–	0	c	55	75	7	5	7	–	7-8	7-8	4000
	S. Farnborough	226	10 15.7	0	SW'W	1	c	53	85	7	5	3	–	4-6	9	4000
	Boscombe Down	417	10 16.2	0	W	2	c	50	97	7	5	7	–	10	10	4000
	Calshot (Sthmtn.)	8	10 16.2	+2	W	3	bc	53	85	8	–	3	–	0	2-3	–
	Lympne ...	346	10 15.9	+2	–	0	bc	55	85	7	–	7	–	0	7-8	–
	Manston ...	154	10 15.0	0	N	1	z_0	54	92	6	5	3	–	2-3	9	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	10 14.6	0	SW	1	c	56	92	7	4	3	–	2-3	9+	4000
	Gorleston ...	5	10 14.6	+2	N	1	c	54	92	6	5	–	–	7-8	7-8	2500
	Mildenhall ...	19	10 14.7	-6	NW'W	2	bc	52	97	7	–	7	–	0	7-8	–
	Cranwell ...	240	10 14.7	-2	SW	2	z_0	53	92	6	5	–	–	9+	9+	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10 15.5	-2	–	0	c/L	52	97	6	4	3	–	2-3	7-8	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10 15.4	-6	W	4	bc	57	85	8	2	–	–	4-6	4-6	2500
	Bristol ...	209	10 16.9	-2	SW	1	Hr_0	53	92	7	9	–	–	10	10	1500
	Portland Bill ...	32	10 16.5	+2	WSW	3	c	59	85	8	5	–	–	7-8	7-8	4000
	Plymouth ...	82	10 17.0	0	W	3	bc	56	85	8	8	–	–	1	1	4000
	The Lizard ...	240	10 18.0	0	–	0	bc	54	92	8	8	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	10 18.3	+2	WNW	4	bc	55	85	8	8	4	–	2-3	4-6	1500
	Guernsey ...	175														
6	Pembroke ...	142	10 15.1	-2	NW	4	c	56	85	8	8	7	–	7-8	9+	800
7	Holyhead ...	26	10 14.1	-4	N	2	bLr_0	55	75	8	9	2	–	7-8	9+	1500
	Chester (Sealand)	16	10 14.7	-2	–	0	ir_0	54	85	7	5	–	–	10	10	4000
8	Manchester ...	70	10 14.7	-2	NE	1	z_0	52	92	6	8	7	–	4-6	10	4000
10	Spurn Head ...	29	10 14.1	0	SSW	3	c	55	85	5	5	–	–	7-8	7-8	1500
	Catterick ...	175	10 15.2	+10	–	0	z_0	49	97	6	–	3	2	0	4-6	–
	Tynemouth ...	108	10 15.6	+6	NW	3	bc	52	92	6	8	–	–	4-6	4-6	2500
11	St. Abbs Head	280														
	Leuchars ...	36	10 16.1	+8	N	1	c	53	92	8	5	7	–	7-8	10	2500
12	Renfrew (Abbots I.)	19	10 16.2	+10	E	2	z_0	52	97	5	5	3	–	4-6	7-8	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	10 14.1	0	–	0	bc	54	97	8	4	–	5	1	2-3	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	10 17.9	+16	NE	4	c	51	92	8	5	5	6	Tr	7-8	2800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	10 17.6	+12	NW	3	bc	46	55	7	5	7	–	2-3	4-6	1500
16	Lerwick ...	156	10 16.4	+8	N'W	4	c	49	85	8	8	7	–	4-6	7-8	1500
17	Blacksod Point	18	10 17.7	+16	N	1	bc	53	92	8	2	3	–	1	2-3	2500
18	Malin Head ...	84	10 16.1	+10	NE	1	bc	49	85	8	5	–	–	2-3	2-3	5700
	Aldergrove ...	268	10 15.3	+6	N'W	1	c/r	52	92	7	5	–	–	7-8	7-8	5700
19	Birr Castle ...	173														
20	Valentia Obsy.	30	10 19.1	+14	NNW	4	bc	55	75	8	2	–	3	2-3	2-3	2500
	Roches Point	22	10 17.2	+8	WNW	3	bc	51	85	8	3	–	5	2-3	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 27th July

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)	10 15.5	+4	W	2	bc	56	85	8	8	4	1	4-6	7-8	2500	1	*
Croydon ...	10 15.7	+6	W	2	bc	56	85	8	8	7	4	2-3	4-6	4000	0	*
S. Farnborough	10 15.3	+2	NW'W	2	bc	55	85	8	8	8	–	4-6	7-8	4000	0	*
Boscombe Down	10 15.5	0	WNW	3	c	55	85	8	8	3	–	4-6	7-8	4000	0	*
Calshot (Sthmtn.)	10 15.6	-2	W'N	3	bc	58	85	8	3	3	3	1	4-6	4000	1	1
Lympne ...	10 15.9	0	W	2	b	56	75	8	–	3	1	0	1	–	1	2
Manston ...	10 15.2	+6	WNW	2	z_0	58	85	6	2	3	1	4-6	7-8	1500	0	*
Shoeburyness ...	10 15.2	+4	–	0	bc/pr	56	92	8	–	4	8	0	2-3	–	1	*
Felixstowe ...	10 15.0	+2	NNE	1	c/pr	56	92	7	8	–	3	4-6	9	4000	1	1
Gorleston ...	10 14.9	+4	W'S	3	ir_0	54	92	6	6	–	–	10	10	1500	1	1
Mildenhall ...	10 14.8	+4	S'E	1	c/pr	55	97	6	5	7	–	4-6	9+	5700	1	*
Cranwell ...	10 15.0	+6	NW	2	ir_0	52	97	5	9	6	–	9+	9+	2500	1	*
Birmingham ...	10 15.8	+4	NW	1	rr	50	92	6	6	2	–	7-8	10	1500	1	*
Upper Heyford	10 15.6	+4	–	0	c/r	50	97	8	9	6	–	9	9+	2500	1	*
Ross-on-Wye	10 15.2	0	SW	2	c/r	52	92	7	6	1	–	9	9+	2500	1	*
Hartland Point	10 16.7	+14	WNW	3	c/r	54	85	8	6	7	–	4-6	9	1500	1	3
Bristol ...																*
Portland Bill ...	10 16.7	+12	W	3	c	57	85	8	5	4	–	4-6	9	4000	1	3
Plymouth ...	10 17.4	+8	WNW	3	bc	56	85	6	3	–	–	4-6	4-6	2500	0	2
The Lizard ...	10 18.7	+12	WNW	4	bc/pr	54	85	8	8	–	–	4-6	4-6	1500	1	2
Scilly (St. Mary's)	10 19.2	+12	NW	4	bcjp	56	85	8	8	–	–	4-6	4-6	1500	1	2
Guernsey ...																
Pembroke ...	10 16.6	+8	N'W	3	c	56	97	8	2	6	1	2-3	7-8	1500	1	1
Holyhead ...	10 16.2	+20	NNE	4	iR	53	92	7	6	–	–	9+	9+	1500	1	2
Chester (Sealand)	10 15.9	-6	–	0	Gr_0	53	92	6	5	2	–	4-6	10	800	1	*
Manchester ...	10 15.8	+10	NNW	2	ir_0	52	92	6	5	7	–	4-6	9+	2500	1	*
Spurn Head ...	10 15.3	+8	E	4	ir_0	55	92	6	8	–	–	10	10	4000	1	2
Catterick ...	10 16.2	+10	N	2	z_0	54	92	5	5	2	–	7-8	10	450	0	*
Tynemouth ...	10 15.8	+10	N	3	bc	54	85	7	2	3	1	2-3	4-6	4000	1	1
St. Abbs Head	10 17.1	+14	NNE	3	c	53	92	8	8	6	–	4-6	7-8	1500	1	2
Leuchars ...	10 18.3	+18	N	1	c	54	85	8	8	7	–	7-8	9+	2500	1	*
Renfrew (Abbots I.)	10 18.5	+14	–	0	c	50	97	8	5	–	–	9	9	4000	1	*
Eskdalemuir ...	10 16.1	+14	NNE	3	c	51	85	8	5	–	–	7-8	7-8	1500	1	*
Point of Ayre ...	10 16.6	+14	ENE	3	bc	57	85	8	8	6	5	2-3	4-6	1500	0	2
Tiree ...	10 18.4	+16	NE'N	2	bc	55	75	8	1	3	–	1	4-6	4000	0	2
Stornoway ...	10 20.2	+14	NE	4	c	52	85	8	5	3	–	2-3	2-3	2500	1	2
Dalwhinnie ...	*	+18	N	2	c	48	92	7	5	–	–	9+	9+	800	1	*
Aberdeen ...	10 18.7	+16	N'W	2	bcjp	52	85	8	8	3	–	1	4-6	1500	1	1
Wick ...	10 19.0	+10	NNW	3	c	52	75	8	8	7	–	4-6	7-8	1500	1	2
Lerwick ...	10 18.4	+14	NNW	4	c	50	75	8	5	7	–	7-8	9	1500	0	*
Blacksod Point	10 20.5	+16	N	4	bc	57	85	8	3	6	–	2-3	4-6	1500	0	3
Malin Head ...	10 18.6	+18	N	3	bc	56	85	8	1	–	–	4-6	4-6	5700	0	2
Aldergrove ...	10 18.0	+14	–	0	c	53	85	8	5	4	–	7-8	9	800	1	*
Birr Castle ...	10 19.5	+16	NNW	1	b	51	92	8	–	–	–	0	0	–	1	*
Valentia Obsy.	10 21.9	+22	N	4	bc	56	85	9	3	–	–	2-3	2-3	1500	0	2
Roches Point	10 19.8	+18	NNW	4	b	52	92	9	5	–	–	1	1	4000	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 26th Hrs. (36)
London (Kew)	70	54	46	0.2	–	8.1
Croydon ...	70	51	50	0.1	–	9.1
S. Farnborough	71	50	42	Tr	Tr	7.8
Calshot (Sthmtn.)	68	49	40	Tr	0.3	10.8
Lympne ...	71	51	48	0.1	1	10.1
Manston ...	67	52	49	0.4	–	8.0
Shoeburyness ...	67	53	47	3	Tr	8.3
Felixstowe ...	70	52	41	2	2	5.6
Gorleston ...	70	53	51	4	2	4.0
Mildenhall ...	65	52	50	15	5	2.0
Cranwell ...	67	51	46	4	4	5.1
Birmingham ...	67	51	49	1	1	4.9
Upper Heyford	68	49	47	*	6	8.9
Ross-on-Wye	71	49	44	–	9	*
Hartland Point	70	51	46	1	11	9.5
Bristol ...	63	51	48	–	11	10.5
Portland Bill ...	68			–		
Plymouth ...	62	56	*	–	–	*
The Lizard ...	67	54	47	–	–	12.2
Scilly (St. Mary's)	65	51		–	1	13.5
Guernsey ...	66	54	*	–	1	12.5
Pembroke ...	62	52	*	Tr	2	11.6
Holyhead ...	64	51	50	–	9	11.2
Chester (Sealand)	63	52	50	1	8	10.4
Manchester ...	66		43	2	2	8.8
Spurn Head ...	66	54	*	3	0.3	6.0
Catterick ...	64	47	46	3	Tr	3.1
Tynemouth ...	60	51	49	5	0.2	*
St. Abbs Head	55	52	*	3	1	*
Leuchars ...	60	51	48	22	0.2	2.7
Renfrew (Abbots I.)	67	45	40	2	2	6.3
Eskdalemuir ...	65	48	47	2	8	6.7
Point of Ayre ...	66	47	*	–	–	10.2
Tiree ...	61	52	*	–	–	8.2
Stornoway ...	57	45	*	0.5	–	0.6
Dalwhinnie ...	57	45	41	1	0.4	0.8
Aberdeen ...	59	48	45	0.1	–	1.4
Wick ...	55	46	*	–	–	*
Lerwick ...	58	46	*	Tr	Tr	9.9
Blacksod Point	60	52	*	0.5	1	*
Malin Head ...	59	46	*	1	–	8.0
Aldergrove ...	67	43	39	2	0.1	5.0
Birr Castle ...	65	56	42	–	2	7.5
Valentia Obsy.	62	54	48	0.3	Tr	8.4
Roches Point	62	49	*	9	0.6	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	cprcjp	cbcy	bcycw	70	54	46	0.2	–	8.1	*	*	8
Croydon ...	217	cmobczs	bcy	bclbccb	70	51	50	0.1	–	9.1	*	*	7
Greenwich (Royal Observatory) ...	149	cbc	bcy	cpclc	72	51	44	–	1.0	5.4	46	64	7
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	72	54	52	–		6.5	59	72	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	70	53	50	–	–		65	67	*
Camden Square ...	110	c	bc	*	73	53	49	–	–	*	*	65	*
Kensington ...	80	bc	bc	*	72	53	49	Tr	–		47	66	*
Hampstead Observatory ...	450										*		*

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.
10.1	Whole	of Period	

FOREIGN OBSERVATIONS.

18h. G.M.T. 26th July — 7h. G.M.T. 27th July

Stations	18h. Barom. mb.	18h. Wind Direc.	18h. Wind Force	18h. Weather	18h. Temp. °F.	7h. Barom. mb.	7h. Wind Direc.	7h. Wind Force	7h. Weather	7h. Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours 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 „	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.

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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 28th July 1940.

No. 28,738

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

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)	1017.1	+12	W	3	r/tlr	58	75	8	8	4	1	7-8	9+	2500
	Croydon	1016.8	+12	WNW	3	r/tlr	58	85	7	9	6	3	7-8	9+	2500
	S. Farnborough	1017.4	+14	SW'W	2	r/tlr	58	75	7	9	-	3	9	9+	1500
	Boscombe Down	1017.7	+14	NW'N	4	c/pr	58	75	8	8	7	-	4-6	7-8	2500
	Calshot (Soton.)	1017.2	+10	NNW	2	r/clr	59	75	7	9	-	-	9+	9+	2500
	Lympne	1017.9	+14	W'S	1	c/TLR	51	97	8	3	-	3	9	9+	1500
	Manston	1016.5	+12	SW	2	tlro	58	85	6	9	6	3	7-8	9+	800
2	Shoeburyness	1016.1	+4	NW	2	tlro	56	75	7	8	-	-	10	10	4000
	Felixstowe	1016.3	+10	N'E	3	tlro	55	85	7	9	-	-	9+	9+	2500
	Gorleston	1016.4	+16	N'E	2	tlr	57	92	6	6	-	-	10	10	1500
	Mildenhall	1016.8	+12	NE'E	2	rr	53	92	6	8	7	-	9	10	2500
	Cranwell	1017.1	+12	NW'N	2	bc/pr	61	65	7	8	3	3	2-3	4-6	2500
3	Birmingham	1017.9	+12	NNW	2	c	59	65	6	5	7	-	4-6	9+	1500
	Upper Heyford	1017.1	+10	NNW	3	bc	60	75	7	2	-	1	4-6	4-6	2500
4	Ross-on-Wye	1017.8	+10	N'W	3	c	62	65	8	8	-	3	7-8	9	2500
5	Hartland Point	1020.2	+16	WNW	3	bc	58	85	9	2	6	-	2-3	4-6	2500
	Bristol	1018.3	+14	NW	3	c	63	75	9	8	7	3	4-6	7-8	2500
	Portland Bill	1018.5	+12	W	3	c	61	75	8	2	6	-	4-6	7-8	4000
	Plymouth	1020.1	+14	NNW	4	bc	62	55	8	2	-	-	4-6	4-6	4000
	The Lizard	1022.0	+16	W'S	5	bc	62	65	8	7	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	1023.1	+22	NW'N	4	bc	62	65	8	8	-	-	4-6	4-6	2500
	Guernsey														
6	Pembroke	1020.7	+10	NNW	4	bc	60	75	8	8	-	-	2-3	2-3	2500
7	Holyhead	1020.2	+22	NNW	4	bc	60	75	8	8	3	-	2-3	2-3	2500
	Chester (Sealand)	1018.8	+14	WNW	4	bc	62	75	8	2	4	-	4-6	4-6	1500
8	Manchester	1018.7	+10	SW'S	1	c/pr	55	85	6	9	3	-	7-8	10	2500
10	Spurn Head	1016.8	+8	N	5	c	61	85	6	2	-	4	4-6	7-8	4000
	Catterick	1019.4	+28	NE	3	zo	59	65	6	9	6	-	7-8	9	1500
	Tynemouth	1019.6	+16	NE	4	c	57	75	8	8	-	-	7-8	7-8	4000
11	St. Abbs Head	1020.3	+18	NNE	3	bc	55	75	8	2	4	-	2-3	4-6	1500
	Leuchars	1020.7	+10	N	2	bc	60	55	8	2	6	-	4-6	4-6	4000
12	Renfrew (Abbots I.)	1020.9	+6	SE'E	1	c	61	65	9	9	3	-	7-8	9	4000
	Eskdalemuir	1019.7	+12	NNE	3	c	58	65	8	5	-	-	7-8	7-8	2500
	Point of Ayre	1020.4	+14	N	2	bc	63	75	8	2	4	-	2-3	2-3	2500
13A	Tiree	1022.1	+14	N	3	b	60	75	8	1	-	-	1	1	4000
13B	Stornoway	1023.0	+8	NW	2	c	57	65	9	7	5	-	7-8	9	2500
15	Dalwhinnie	1021.9	+10	N	1	bc	55	65	8	2	-	-	4-6	4-6	2500
	Aberdeen	1021.1	+12	NNW	4	c	59	65	8	8	-	-	7-8	7-8	4000
	Wick	1021.4	+12	NW	4	c	54	65	9	5	6	-	7-8	9+	1500
16	Lerwick	1019.7	+6	NW	4	c	55	75	8	5	7	-	4-6	7-8	800
17	Blacksod Point	1024.6	+20	N	4	c	60	75	8	3	6	5	2-3	7-8	1500
18	Malin Head	1022.2	+20	N	3	bc	59	75	8	1	-	3	2-3	4-6	5700
	Aldergrove	1021.1	+14	NNW	2	c	63	55	9	3	6	-	9	9	2500
19	Birr Castle	1022.3	+10	NNW	2	pr	61	75	8	8	1	-	7-8	9	1500
20	Valentia Obsy. †	1025.4	+14	NNW	4	bc	62	75	9	2	4	5	1	2-3	2500
	Roches Point	1022.6	+6	NNW	3	c/pr	62	75	9	3	4	-	4-6	7-8	2500

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

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)	1020.1	+20	NNW	2	c	59	65	8	8	3	3	4-6	9	2500	1	*
Croydon	1019.7	+24	NE'N	1	c/pr	56	92	7	8	6	-	2-3	9	4000	1	*
S. Farnborough	1019.7	+16	N'W	3	pr	62	55	7	8	6	-	7-8	9+	2500	1	*
Boscombe Down	1020.5	+20	NW'N	2	c/pr	57	75	7	3	3	-	4-6	7-8	2500	1	*
Calshot (Soton.)	1019.6	+14	N	4	bc	65	65	7	4	3	-	2-3	2-3	4000	1	1
Lympne	1019.3	+12	NNW	2	c	57	75	8	2	6	3	2-3	7-8	2500	1	§ 2
Manston	1019.5	+16	NW'N	2	bc	57	75	8	2	3	3	1	4-6	2500	1	*
Shoeburyness	1019.4	+16	N	1	bc/pr	59	75	8	8	4	-	2-3	4-6	4000	1	*
Felixstowe	1018.8	+16	N	2	c/pr	56	85	8	8	6	-	2-3	7-8	2500	1	2
Gorleston	1018.5	+8	NNE	3	bc	59	75	7	8	4	-	2-3	4-6	1500	1	1
Mildenhall	1019.4	+16	NNW	3	c	59	92	7	8	6	3	2-3	7-8	2500	1	*
Cranwell	1020.9	+26	NE'N	3	c/pr	59	75	7	8	7	1	4-6	7-8	2500	1	*
Birmingham	1020.9	+14	NNW	2	bc	57	75	6	8	7	-	2-3	4-6	1500	1	*
Upper Heyford	1020.3	+18	N'W	2	c/pr	59	75	7	3	6	3	4-6	7-8	2500	1	*
Ross-on-Wye	1021.2	+20	N'W	2	c	57	75	7	5	-	-	10	10	2500	1	*
Hartland Point	1022.2	+8	NW	3	b	59	85	8	1	-	-	Tr	Tr	2500	0	3
Bristol	1021.6	+20	W	1	c/lr	56	85	8	8	6	-	4-6	9	2500	1	*
Portland Bill	1021.0	+10	WNW	3	bc	61	85	8	2	-	-	4-6	4-6	4000	0	2
Plymouth	1022.1	+10	NW	4	bc	62	65	8	1	-	-	2-3	2-3	4000	0	2
The Lizard	1023.6	+8	NNW	4	bc	61	75	8	7	4	-	4-6	4-6	4000	1	2
Scilly (St. Mary's)	1024.2	+6	NW	4	bc	62	65	8	8	-	-	2-3	2-3	2500	0	2
Guernsey																
Pembroke	1022.8	+8	NNW	2	bc	61	75	7	2	4	-	1	2-3	2500	1	2
Holyhead	1022.7	+10	N	2	b	60	75	8	2	-	5	Tr	Tr	2500	1	1
Chester (Sealand)	1022.1	+20	-	0	bc/pr	59	75	7	8	-	3	4-6	4-6	2500	1	*
Manchester	1022.0	+12	WSW	1	zo	59	85	5	8	-	-	7-8	7-8	2500	1	*
Spurn Head	1021.1	+20	N'W	2	c	59	75	7	4	-	-	9	9	4000	0	3
Catterick	1022.3	+18	NE	1	bc	56	75	8	8	6	-	4-6	4-6	2500	0	
Tynemouth	1022.4	+12	N	4	bc	56	65	8	2	4	-	2-3	2-3	4000	1	2
St. Abbs Head	1022.1	+6	NNE	2	bc	56	75	9	1	4	-	1	2-3	1500	0	1
Leuchars	1022.3	+10	SE	3	bc	59	65	8	2	-	-	2-3	2-3	4000	1	*
Renfrew (Abbots I.)	1022.1	+2	SW'W	2	bc	63	55	9	8	-	3	2-3	2-3	4000	1	*
Eskdalemuir	1021.9	+12	NE'E	2	bc	58	65	8	7	-	-	4-6	4-6	2500	1	*
Point of Ayre	1022.9	+8	N'E	1	bc	59	75	8	4	4	-	2-3	4-6	4000	0	2
Tiree	1024.0	+6	NNW	3	bc	58	75	8	1	-	5	Tr	4-6	4000	0	3
Stornoway	1024.1	+4	WNW	3	c	55	75	9	7	-	6	4-6	7-8	4000	0	2
Dalwhinnie	1022.5	+2	N	1	c	58	55	8	2	6	-	7-8	9	2500	0	*
Aberdeen	1022.1	+6	N'W	3	bc	58	65	8	4	-	1	2-3	2-3	4500	1	2
Wick	1022.0	+2	NW	4	c	54	65	8	8	4	1	4-6	7-8	1500	1	2
Lerwick	1019.5	-2	W'S	6	c	53	85	8	5	7	-	7-8	9	1500	0	*
Blacksod Point	1026.7	+10	N	4	bc	58	75	8	2	-	-	2-3	2-3	1500	0	2
Malin Head	1024.6	+10	N	3	bc	58	75	8	1	-	5	1	4-6	5700	0	2
Aldergrove	1023.4	+16	NNW	3	bc	62	65	9	8	-	8	2-3	2-3	2500	1	*
Birr Castle	1024.0	+4	NNW	1	c/pr	62	75	8	8	1	-	7-8	9	1500	1	*
Valentia Obsy. †	1026.8	+8	N'W	4	bc	61	65	9	2	-	9	1	2-3	2500	0	2
Roches Point	1024.2	+12	NNW	4	bc	62	75	9	8	-	-	4-6	4-6	2500	1	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 27th. (37)	13h.—18h. 27th. (38)	18h. 27th to 1h. 28th (39)	1h.—7h. 28th. (40)
London (Kew)	ctPRtlpr	cprtcyc	cbcbw	bw
Croydon	protlro	cprpro	bcmbmo	mbfb
S. Farnborough	bcctlro	prbccy	bwf	
Boscombe Down	cpro	cbc	bcbmm	bmojfF
Calshot (Soton.)	bcPRTLR	cprobc	bczbmow	bwmo
Lympne	b,dLH	cprc	cbcbw	bwbo
Manston	bctlr	tlrc	bcbcmo	bcmwbc
Shoeburyness	cmoctpo	tlprcbc	cbcbw	bw
Felixstowe	c,iTLR	ctlrproc	cprob	bmo,v
Gorleston	otTLR	otlrrobc	bc	bcw
Mildenhall	cTLRrrmo	crrcbc	bfgw	bmobw
Cranwell	iroprobc	tlrPR	cv,bw	
Birmingham	oriro	ctlRpr	probcm	bcbm
Upper Heyford	cproc	bcPHRctl	bc	bcbfbm
Ross-on-Wye	Rccbc	bccRoc	Robcbmow	bmwF
Hartland Point	cbc	bcb	b	bccbc
Bristol	cprocproc	ctlrc	c,bmow	bwmo,fm
Portland Bill	c	cbc	bcbc	bcbc
Plymouth	bcmo bcy	bcybc	bcyb	bwb
The Lizard	bc	bc	bcbw	bc
Scilly (St. Mary's)	bc	bcb	bw	bw
Guernsey				
Pembroke	cbc	bc	bcbw	bcbw
Holyhead	ciRb	b	bw	b wc
Chester (Sealand)	ozobc	bccpr	cprobcmo	cbcmfg
Manchester	cmoqtlr	cmoqtlro	cmobcmbf	bweofF
Spurn Head	c	bcc	bc	bc
Catterick	cprczo	czcbc	bmob	bcmo
Tynemouth	bccRoc	cbc	bc	bcc
St. Abbs Head	cbc	bcb	ciro	bcc
Leuchars	cbcy	bcybc	bccprocbc	bbcc
Renfrew (Abbots I.)	cwcproc	cprbcb	bybcw	bbccw
Eskdalemuir	cbc	bcy	bc	bcw
Point of Ayre	bc	bc	bcbbc	bbcc
Tiree	c	bc	bc	bccpr
Stornoway	c	c	bc	cPR
Dalwhinnie	cbc	bc		c
Aberdeen	bcc	bcb	bbc	bcw c
Wick	c	c	c	c
Lerwick	c	c	cpro	cpro
Blacksod Point	bc	bc	b	bc
Malin Head	cbcbc	bc	bc	bc
Aldergrove	)pbctl	cyprojp	bcjpbw	bwfbfg
Birr Castle	cpro	cpr	bcb	cbc
Valentia Obsy. †	bcprobbc	bccbc	bbw	bwbc
Roches Point	bcproc	bc	bc	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.

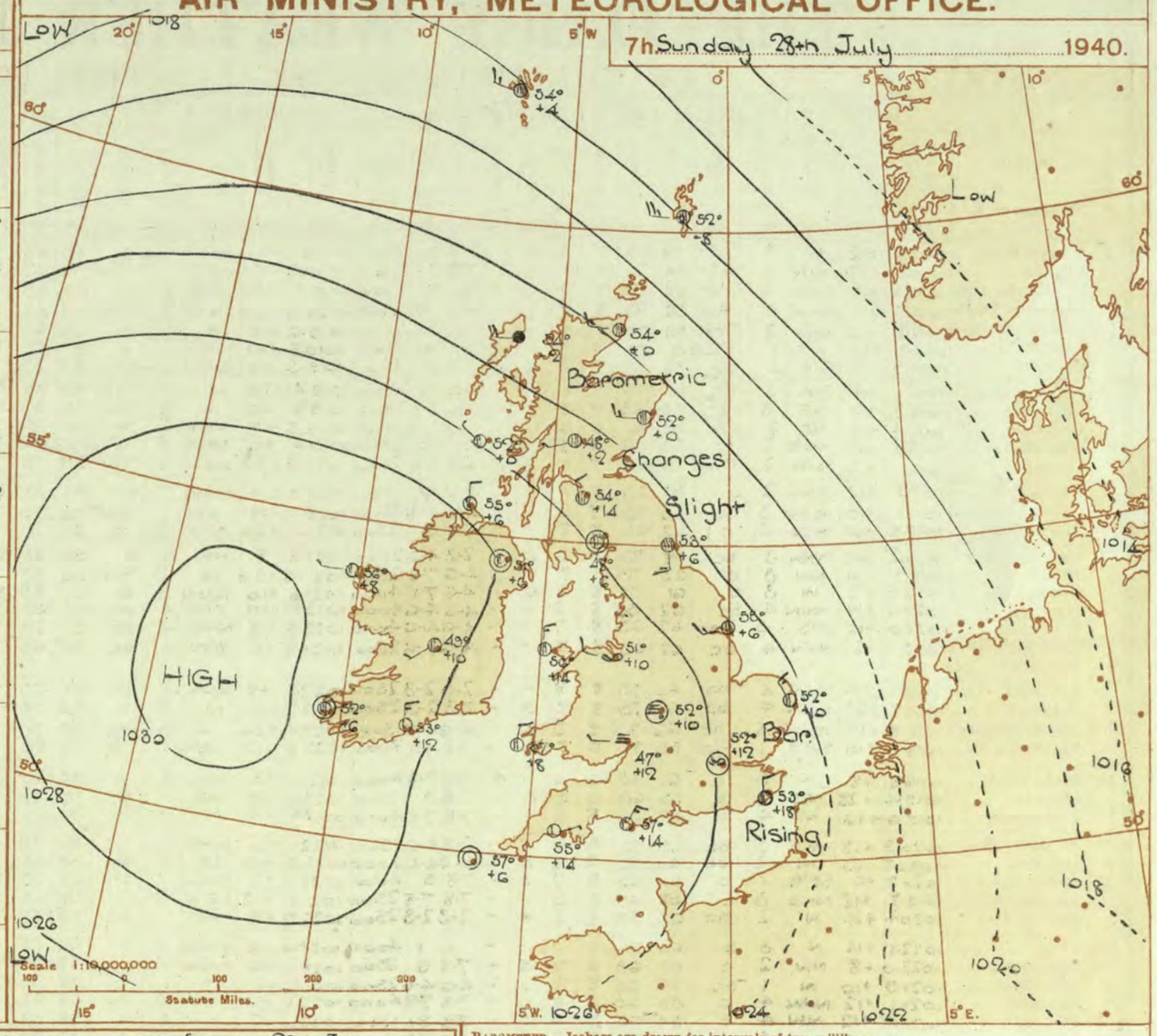
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 27th July			18h. G.M.T.			01h. G.M.T. 28th July			07h. G.M.T.		
IIIII	$C_L C_M$	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-	03958	29328	7-	02954	26426	67	10745	24387	82	02846	24428
115	51	02954	02225	76	02954	28325	81	02954	28585	52	02944	28586
203												
206				70	02963	04224	5-	01962	00014	57	02955	23327
210	73	28115	-----	70	01963	02113	14	01863	22113	5-	02856	22427
220	73	25958	30284	13	01954	28204				52	02854	27226
230	26	01963	32313	10	01961	24413	54	00961	28212	5-	02956	20116
245	86	01954	02415	86	01964	16414	44	01862	22283	83	02951	24326
260												
277				36	00852	29313	50	00761	25401	1-	02958	27327
279												
285	9-	81747	06387	9-	81746	06386						
288	87	02854	02486	24	01863	01424	56	17563	24103	03	02890	17217
273												
301	83	01764	28214	8-	81766	08286	53	01561	00014	26	02643	28326
321	62	01644	04297	96	81855	03296	00	00690	31100			
299	87	01743	30414	87	01743	32313	50	01742	28312	57	01752	20303
292	86	25845	02286	86	01853	32314	00	05690	00010	50	02871	00017
310	--	02636	32326									
316	36	11643	02195	86	02754	02295	00	05590	00080	18	08461	24102
333				34	00961	28401	00	00790	00000	50	02841	30216
334	--	02855	02327	--	01863	02303						
340	83	28645	29397	80	25764	04284	50	05554	00014	50	05673	00015
136	87	22853	32297	86	02855	01365	50	01844	31214	10	01852	28313
336	--	22854	32427	--	28854	32416						
350												
368	86	02955	24426	26	81844	28285	00	00890	26100	00	05690	01101
379	3-	05645	02325	5-	05664	30214	03	05690	32102	05	05690	26103
390	83	05644	30315	84	02753	30286	00	05590	29200			
382	83	02865	32325	36	01754	00015	04	05690	00001	--	05690	00000
438	86	02844	-5515							70	01753	02413
430	93	25855	26387	83	01853	30284				03	05690	02241
409	80	02955	30485	10	00953	32313				10	00861	32101

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 28th July
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light northerly to variable breeze; mainly fine; local early morning fog; somewhat warmer by day; cool at night.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind north to northwest backing slowly, light to moderate; mainly fine; local early morning fog; rather cool.
12 S.W. Scotland & Isle of Man.	Light northwest to west wind, backing and freshening tomorrow; fair, cloud increasing later; rather cool.
13 A. W. Scotld. / B.N.W. Scotland.	Wind northwest moderate, backing and freshening tomorrow; fair apart from a few showers chiefly near the coast; rather cool.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light northerly to variable breeze; mainly fine; local early morning fog; somewhat warmer by day; cool at night.

GENERAL INFERENCE.

An anticyclone centred over West Ireland is temporarily extending east-southeast, but a substantial fall in pressure is expected to develop in the Greenland-Iceland area.

Weather will be fine in many parts of the country, but there will be a few showers in North and Northeast Scotland. The fair weather is likely to continue for a day or two in at least the southwestern half of the country with some rise in temperature.

FURTHER OUTLOOK.

Continuing fine or fair in western and southern districts.

Unsettled conditions spreading across Scotland.

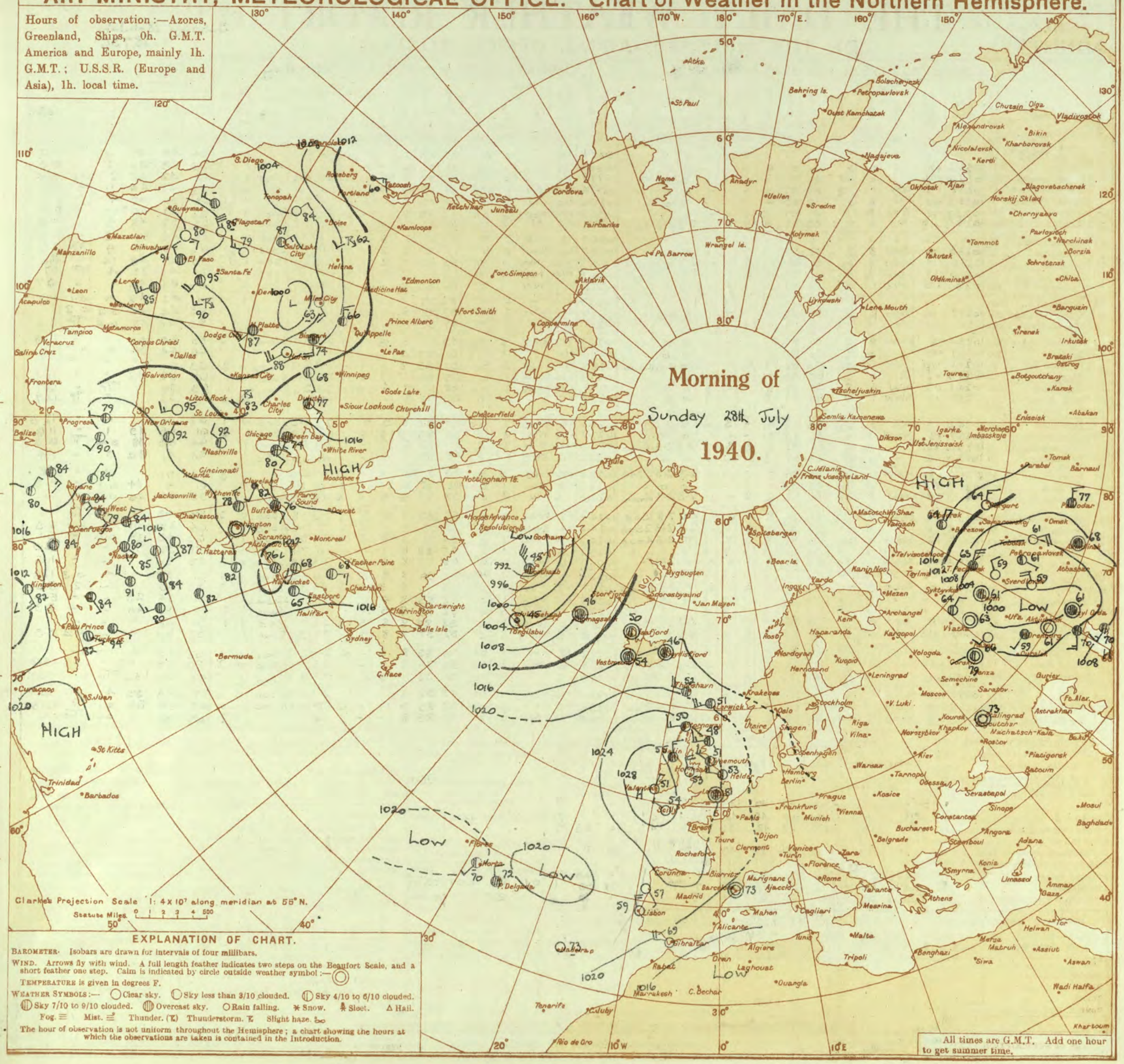
Forecasts issued at 10.30h. G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3902 Wt.8049 & 3705 Gp.348 (3803 & 40)

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 28th July 1940.
No. 28,738

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1024.0	+16	-	0	z_0	51	97	6	-	-	-	0	0	-
	S. Farnborough	226	1025.0	+14	-	0	bf	46	97	2	-	-	-	0	0	-
	Boscombe Down	417	1025.2	+12	N'W	1	z_0	49	97	5	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1024.3	+14	N	2	z_0	53	85	6	-	-	-	0	0	-
	Lympne ...	346	1023.3	+10	N'W	3	b	51	97	7	-	-	-	0	0	-
	Manston ...	154	1023.5	+18	N'E	4	z_0	55	85	6	5	3	-	2-3	4-6	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1023.6	+16	NNW	3	b	52	92	7	-	-	-	0	0	-
	Gorleston ...	5	1022.9	+14	NW'W	2	bc	51	85	7	8	-	-	2-3	2-3	1500
	Mildenhall ...	19	1024.3	+14	NW'W	2	fg	47	97	7	5	-	-	Tr	Tr	4000
	Cranwell ...	240	1025.1	+10	N'W	1	b	48	92	7	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1024.7	+10	NNW	2	z_0	51	92	6	-	7	-	0	4-6	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1025.4	+8	NNW	3	b	57	85	8	-	-	-	0	0	-
	Bristol ...	209	1025.7	+10	-	0	z_0	50	97	5	-	-	-	0	0	-
	Portland Bill ...	32	1024.6	+10	NW	3	bc	60	92	8	5	-	-	4-6	4-6	4000
	Plymouth ...	82	1025.5	+2	N	4	b	56	85	7	-	-	-	0	0	-
	The Lizard ...	240	1026.1	+2	N'W	3	b	52	97	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1027.7	+2	NW'W	1	b	54	97	8	-	-	-	0	0	-
	Guernsey ...	175														
6	Pembroke ...	142	1026.0	+8	N'E	3	b	53	92	8	-	3	-	0	1	-
7	Holyhead ...	26	1025.7	+8	NW'N	3	b	56	85	8	-	-	1	0	Tr	-
	Chester (Sealand)	16	1025.6	+10	-	0	z_0	51	92	5	5	3	-	2-3	2-3	4000
8	Manchester ...	70	1025.4	+6	-	0	bf+	45	97	3	-	-	-	0	0	-
10	Spurn Head ...	29	1024.4	+8	NWW	4	bc	53	85	7	1	-	-	2-3	2-3	5700
	Catterick ...	175	1025.3	+4	-	0	b	43	97	7	-	-	-	0	0	-
	Tynemouth ...	108	1024.3	+4	NW	3	bc	51	75	6	2	-	-	2-3	2-3	4000
11	St. Abbs Head	280	1023.9	+2	SSE	2	ir_0	51	75	8	4	6	-	4-6	7-8	1500
	Leuchars ...	36	1023.8	0	-	0	bc	52	92	8	5	-	-	2-3	2-3	2500
12	Renfrew (Abbots I.)	19	1024.6	+6	WSW	3	bc	49	85	8	5	7	1	Tr	2-3	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1025.4	+8	NW'N	3	bc	56	92	8	-	4	5	0	2-3	-
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1024.3	-4	WSW	3	c	50	92	8	5	-	6	1	7-8	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1022.2	-6	W	3	c	49	85	7	5	7	8	4-6	9+	800
16	Lerwick ...	156	1018.6	-12	W	5	c	51	92	8	8	7	-	4-6	9	1500
17	Blacksod Point	18	1028.4	+4	NW	2	b	49	92	8	-	-	-	0	0	-
18	Malin Head ...	84	1027.1	+4	N	3	c	55	75	8	2	6	-	4-6	7-8	5700
	Aldergrove ...	268	1027.0	+6	-	0	fg	46	92	7	5	-	2	Tr	2-3	1500
19	Birr Castle ...	173	1027.7	+6	NNW	1	b	50	92	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1029.4	+4	NE'N	1	b	51	85	9	1	-	-	Tr	Tr	2500
	Roches Point	22	1027.5	+8	NW'N	3	bc	55	92	8	5	-	-	4-6	4-6	2500

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

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)	1027.1	+16	-	0	b	55	75	7	-	-	1	0	Tr	-	1	*
Croydon	1026.0	+12	-	0	z_0	52	92	6	-	-	-	0	0	-	1	*
S. Farnborough	1027.2	+14	-	0	bcf-	46	97	2	5	-	-	4-6	4-6	1500	1	*
Boscombe Down	1027.0	+10	N'W	1	b/f	48	97	5	-	-	-	0	0	-	0	*
Calshot (Sthmtn.)	1026.6	+16	N	2	z_0	54	85	6	-	4	1	0	Tr	-	1	1
Lympne	1026.0	+18	NNW	2	bc	53	85	8	1	-	-	4-6	4-6	800	1	§2
Manston	1025.9	+16	N	3	c	57	85	7	1	-	-	7-8	7-8	1500	1	*
Shoeburyness	1026.3	+18	NW	2	b	55	85	8	8	-	1	1	1	2500	1	*
Felixstowe	1025.7	+10	NW	3	b	54	85	8	2	-	1	Tr	Tr	2500	1	1
Gorleston	1024.5	+10	NW	3	bc	52	85	7	2	-	-	2-3	2-3	1500	1	1
Mildenhall	1026.5	+14	NW'W	2	b	50	92	7	5	-	5	Tr	Tr	4000	1	*
Cranwell	1026.6	+10	W'N	1	z_0	52	85	6	-	-	1	0	1	-	0	*
Birmingham	1026.7	+10	-	0	m	52	97	4	-	-	-	0	0	-	1	*
Upper Heyford	1026.7	+12	N'W	2	m	53	92	4	-	-	1	0	Tr	-	1	*
Ross-on-Wye	1027.1	+12	W	1	F	47	97	1	-	-	-	0	0	-	1	*
Hartland Point	1026.9	+12	NNE	2	bc	59	85	8	5	-	1	4-6	4-6	2500	0	2
Bristol	1027.5	+10	-	0	m/f	51	97	4	-	-	-	0	0	-	1	*
Portland Bill	1026.9	+14	NE	3	bc	57	85	8	1	-	-	2-3	2-3	4000	0	2
Plymouth	1027.2	+14	ENE	1	b	55	85	7	1	-	-	Tr	Tr	4000	0	1
The Lizard	1027.1	+10	NNE	2	bc	58	92	8	4	-	-	2-3	2-3	2500	0	1
Scilly (St. Mary's)	1027.3	+6	-	0	b	57	97	8	-	-	-	0	0	-	0	0
Guernsey																
Pembroke	1027.1	+8	NNE	2	bc	57	92	8	5	7	-	2-3	4-6	2500	0	1
Holyhead	1027.7	+14	N'W	3	c	56	85	8	8	4	1	4-6	7-8	2500	1	2
Chester (Sealand)	1027.0	+10	W'N	2	z_0	51	92	6	2	-	1	2-3	7-8	4000	1	*
Manchester	1026.6	+6	SE'S	1	F+	49	97	1	-	-	-	10	10	<150	1	*
Spurn Head	1025.6	+6	W'S	3	bc	55	85	6	-	-	6	0	4-6	-	0	3
Catterick	1025.3	0	SW	1	z_0	49	92	6	-	5	8	0	9	-	0	*
Tynemouth	1024.5	+6	W	3	c	53	85	6	5	-	6	4-6	7-8	4000	1	1
St. Abbs Head	1024.4	+8	WNW	3	c	52	85	7	4	5	8	2-3	7-8	2500	0	2
Leuchars	1024.4	+4	WNW	2	c	54	75	9	1	4	9	Tr	7-8	4000	1	*
Renfrew (Abbots I.)	1026.2	+14	NW	2	c	54	75	9	8	3	6	Tr	9+	2500	1	*
Eskdalemuir	1025.2	+6	-	0	c	48	85	8	-	-	6	0	7-8	-	1	
Point of Ayre	1026.7	+6	NNE	5	c	55	85	8	4	4	6	2-3	7-8	2500	0	3
Tiree	1025.8	0	NW'W	1	bc/pr	52	85	8	8	3	-	4-6	4-6	1500	1	1
Stornoway	1023.7	-2	W	4	pr	54		8	5	7	3	7-8	9+	2500	1-	2
Dalwhinnie	1025.2	+2	WSW	1	c	48	85	8	4	-	7	4-6	10	1500	1	*
Aberdeen	1023.1	0	WNW	3	c	52	75	8	5	9	-	1	9	4000	1	1
Wick	1021.7	0	WNW	3	c	54	85	8	8	5	8	4-6	9	800	1	1
Lerwick	1017.6	+8	WNW	5	c	52	97	7	8	7	-	7-8	9+	800	1	*
Blacksod Point	1029.2	+8	W	1	bc	56	85	8	3	-	4	2-3	2-3	1500	0	1
Malin Head	1027.4	+6	N	2	bc	55	75	8	7	-	-	2-3	2-3	5700	0	2
Aldergrove	1027.9	+6	-	0	bc	51	92	9	5	4	4	Tr	2-3	2500	1	*
Birr Castle	1029.4	+10	SW	1	bc	49	92	8	5	-	-	2-3	2-3	2500	1	*
Valentia Obsy.	1029.6	+6	-	0	c	52	85	9	1	-	6	Tr	7-8	4000	0	0
Roches Point	1028.5	+12	N	3	b	53	85	8	-	-	1	0	1	-	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)	64	49	37	6	Tr	4.9
Croydon	63	45	40	2	-	6.2
S. Farnborough	65	42	37	2	0.1	5.4
Boscombe Down	63	42	40	1	-	4.8
Calshot (Sthmtn.)	65	51	48	4	-	8.3
Lympne	63	49	46	17	Tr	5.5
Manston	63	52	48	5	-	4.5
Shoeburyness	65	46	39	2	-	3.0
Felixstowe	65	49	46	5	Tr	2.3
Gorleston	59	47	43	14	-	2.0
Mildenhall	61	41	35	4	Tr	1.7
Cranwell	64	44	42	1	-	3.7
Birmingham	61	49	38	9	0.1	1.9
Upper Heyford	65	46	42	0.6	0.2	*
Ross-on-Wye	65	43	38	0.4	Tr	3.1
Hartland Point	59	55	50	-	-	11.8
Bristol	66	44	36	4	-	6.0
Portland Bill	63	56	*	-	-	*
Plymouth	63	52	42	-	-	13.1
The Lizard	63	50	*	Tr	-	13.7
Scilly (St. Mary's)	64	53	*	-	Tr	14.7
Guernsey						
Pembroke	62	51	*	-	-	12.3
Holyhead	61	55	49	1	-	11.6
Chester (Sealand)	64	45	38	0.4	Tr	6.0
Manchester	64	41	36	9	-	1.4
Spurn Head	63	50	*	3	-	7.8
Catterick	61	41	34	0.1	-	3.5
Tynemouth	59	47	46	0.2	-	*
St. Abbs Head	58	49	*	-	Tr	*
Leuchars	64	46	41	-	0.1	6.5
Renfrew (Abbots I.)	66	45	39	0.6	-	5.1
Eskdalemuir	61	36	33	-	-	3.9
Point of Ayre	65	50	*	-	-	11.5
Tiree	61	52	*	-	0.3	12.8
Stornoway	59	49	*	-	2	8.0
Dalwhinnie	61	34	29	-	-	5.4
Aberdeen	59	45	40	-	-	8.9
Wick	54	48	*	-	-	*
Lerwick	57	50	*	-	0.4	5.5
Blacksod Point	62	53	*	-	-	*
Malin Head	60	48	*	-	-	14.2
Aldergrove	66	40	36	Tr	-	10.5
Birr Castle	67	44	39	4	-	10.1
Valentia Obsy.	62	46	36	0.1	Tr	12.3
Roches Point	65	52	*	0.1	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 hrs. ended 9h.											
Kew...	18	ct PR+l pr	ep ptcyc	cbcbw	64	49	37	6	Tr	4.9	*	*	7
Croydon ...	217	pr_0 + lr_0	c pr pr_0	bcmpm	63	45	40	2	-	6.2	*	*	7
Greenwich (Royal Observatory)...	149	ctlr	ctlr	cbcb	62	48	36	1	-	4.5	80	63	7
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	65	51	49	7			68	71	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*									*
Camden Square ...	110	bc	c	*	71	50	44	1	-	*	*	63	*
Kensington ...	80	ctlrbc	bc	*	65	49	42	7	Tr		87	59	*
Hampstead Observatory ...	450	bcortl	bc	bc	64	47	45	2	-		*	79	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 28th

Station	Max.	Time.	Min.	Time.
South Kensington.				
Kew Observatory.	0.1	21h 27th	<0.1	rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 27th July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 28th July 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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 29th July, 1940.

No. 28,739.

OBSERVATIONS at 13h. G.M.T. 28th July

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1026.3	-10	NW	2	c	65	45	8	7	-	1	4-6	7-8	2500
	Croydon	1026.0	-6	NNE	2	bc	65	43	8	1	-	1	2-3	4-6	4000
	S. Farnborough	1026.3	-10	NW'N	3	bc	67	45	8	2	6	1	4-6	4-6	4000
	Boscombe Down	1026.2	-8	WSW	2	c	68	45	8	8	-	-	7-8	7-8	4000
	Calshot (Soton.)	1026.7	-2	SSW	2	c	67	55	7	8	-	-	7-8	7-8	4000
	Lympne	1026.6	+2	E	1	c	62	65	8	1	-	1	7-8	7-8	2500
	Manston	1027.2	+8	NW	1	bc	61	65	8	1	5	-	2-3	4-6	1500
2	Shoeburyness	1026.3	-8	NNW	2	bc	64	65	8	1	-	1	4-6	4-6	4000
	Felixstowe	1025.6	-10	W'N	2	bc	68	45	9	1	-	1	2-3	2-3	4000
	Gorleston	1025.2	-2	ESE	2	bc	60	75	7	2	-	-	4-6	4-6	2500
	Mildenhall	1025.7	-8	WSW	3	bc	67	45	8	1	-	1	4-6	4-6	4000
	Cranwell	1024.8	-14	NNW	3	c	67	45	7	8	-	6	4-6	7-8	2500
3	Birmingham	1025.7	-6	WNW	3	c	65	55	8	7	-	2	4-6	7-8	4000
	Upper Heyford	1025.9	-8	W'N	3	c	66	55	8	8	4	1	7-8	7-8	2500
4	Ross-on-Wye	1026.1	-6	W	2	bc	66	55	8	1	-	1	4-6	4-6	4000
5	Hartland Point	1027.8	+2	N	2	bc	62	75	8	2	-	5	1	2-3	2500
	Bristol	1027.2	-6	NW	2	bc	67	55	8	2	4	-	4-6	4-6	4000
	Portland Bill	1027.4	+10	S	2	c	62	85	8	5	-	-	2-3	2-3	4000
	Plymouth	1027.6	+2	SSW	3	c	59	85	7	8	6	-	7-8	7-8	4000
	The Lizard	1027.8	+2	SSE	2	bc	64	66	8	8	6	-	4-6	4-6	4000
	Scilly (St. Mary's)	1027.9	+4	NE'E	1	bc	70	65	8	3	4	4	1	2-3	2500
	Guernsey														
6	Pembroke	1027.1	+2	NW	2	bc	63	85	8	2	7	-	2-3	2-3	2500
7	Holyhead	1028.1	0	NW	3	bc	59	65	8	1	-	1	Tr	2-3	2500
	Chester (Sealand)	1027.2	+2	WNW	4	bc	62	65	8	7	-	1	2-3	2-3	4000
8	Manchester	1026.2	-2	W	4	bc	68	45	8	1	-	1	4-6	4-6	4000
10	Spurn Head	1024.0	-4	W'N	4	bc	67	55	6	2	-	1	2-3	4-6	5700
	Catterick	1024.2	-8	NNW	3	c	67	45	8	2	-	2	4-6	7-8	4000
	Tynemouth	1024.5	0	NNE	3	bc	59	65	8	8	3	2	2-3	4-6	2500
11	St. Abbs Head	1024.1	-4	WNW	3	c	58	55	9	2	4	8	2-3	7-8	1500
	Leuchars	1023.6	-4	W	4	c	61	55	8	2	4	6	4-6	9	2500
12	Renfrew (Abbotsinch L.)	1026.0	+2	NW	5	c/p	61	65	9	8	6	1	9	9+	2500
	Eskdalemuir	1024.4	0	NW'N	4	bc	61	55	8	7	-	1	4-6	4-6	4000
	Point of Ayre	1027.0	0	NW'N	4	bc	63	85	8	1	-	1	1	2-3	4000
13A	Tiree	1025.8	0	WNW	3	bc	61	75	8	2	6	5	2-3	4-6	2500
13B	Stornoway	1023.7	0	W	5	pr	55	87	7	6	7	-	4-6	10	800
15	Dalwhinnie	1024.4	-2	SW	1	c	55	85	7	4	6	-	7-8	10	2500
	Aberdeen	1022.8	-2	NW'N	3	c/pr	57	75	8	8	7	-	9	9+	2500
	Wick	1021.2	-4	NW	4	c	59	75	8	8	7	8	4-6	9+	2500
16	Lerwick	1017.6	0	NW	4	c	55	75	8	8	7	-	4-6	9	800
17	Blacksod Point	1020.4	0	W	2	c	59	85	8	3	6	-	2-3	9	2500
18	Malin Head	1027.4	0	NW	5	bc	60	75	8	2	-	1	4-6	4-6	5700
	Aldergrove	1027.4	-6	WSW	2	c	65	55	9	2	-	2	4-6	7-8	2500
19	Birr Castle	1028.5	-4	W	1	c	64	65	8	4	-	-	7-8	7-8	2500
20	Valentia Obsy. †	1029.8	0	NW'N	4	bc	63	65	9	7	-	1	2-3	2-3	4000
	Roches Point	1028.8	0	S	1	bc	65	65	9	2	-	5	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 28th July

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)	1024.9	-8	WSW	2	bc	69	46	8	1	-	-	2-3	2-3	2500	1	*
	Croydon	1024.8	-8	-	0	bc	67	65	7	2	-	-	4-6	4-6	4000	0	*
	S. Farnborough	1025.0	-8	WSW	3	bc	68	45	8	2	6	1	2-3	2-3	4000	0	*
	Boscombe Down	1025.2	-4	S	1	bc	65	65	8	2	3	-	4-6	4-6	4000	0	*
	Calshot (Soton.)	1025.9	-6	WSW	4	b	64	65	8	2	3	-	Tr	1	4000	0	3
	Lympne	1025.8	-10	S	2	b	59	75	9	-	-	-	0	0	-	4	§2
	Manston	1025.5	+6	SSW	3	b	63	65	8	1	-	1	Tr	1	2500	0	*
2	Shoeburyness	1025.1	-8	SWS	2	c	65	55	8	1	7	-	2-3	7-8	4000	1	*
	Felixstowe	1024.7	[illegible]	[illegible]	3	pr	63	65	8	8	-	-	8	9	2500	1	2
	Gorleston	1023.6	-16	WSW	3	c	66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	6
	Mildenhall	1023.9	-6	WNW	2	c	65	65	7	8	-	-	9	9	4000	0	*
	Cranwell	1024.8	+6	W	3	b	66	45	7	-	-	1	0	Tr	-	0	*
3	Birmingham	1025.2	-2	NNW	3	bc	63	55	8	7	-	1	2-3	2-3	4000	1	*
	Upper Heyford	1025.0	-4	NW'W	3	bc	67	55	8	2	4	-	2-3	2-3	4000	1	*
4	Ross-on-Wye	1025.0	-6	NW	3	c	66	65	9	8	-	-	7-8	7-8	4000	1	*
5	Hartland Point	1026.9	-6	NNW	3	bc	60	75	9	2	4	1	1	2-3	2500	0	2
	Bristol	1025.8	-2	W'S	3	bc	64	65	8	2	3	-	2-3	4-6	4000	0	*
	Portland Bill	1026.7	-8	SW	2	bc	60	85	8	5	-	-	4-6	4-6	4000	0	2
	Plymouth	1026.9	-2	SW	1	0	61	85	7	2	-	1	4-6	4-6	4000	0	1
	The Lizard	1026.7	-6	N	4	bc	66	55	8	8	-	-	4-6	4-6	2500	0	1
	Scilly (St. Mary's)	1027.4	-2	NNE	3	bc	62	75	8	8	4	4	2-3	4-6	2500	0	0
6	Pembroke	1027.5	0	N'E	2	bc	63	65	8	1	8	1	2-3	4-6	2500	0	1
7	Holyhead	1027.4	-2	WNW	2	bc	60	65	9	1	4	6	Tr	4-6	4000	1	1
	Chester (Sealand)	1026.9	0	WNW	4	c	60	65	8	1	-	6	Tr	7-8	4000	1	*
8	Manchester	1026.2	0	WNW	4	bc	61	55	9	1	-	6	1	4-6	4000	0	*
10	Spurn Head	1024.1	0	ENE	1	c	59	75	7	2	-	4	4-6	7-8	5700	0	2
	Catterick	1024.2	0	NW	3	c	64	55	8	8	4	-	4-6	7-8	4000	0	
	Tynemouth	1023.8	-4	SE	3	c/pr	58	65	8	8	3	-	4-6	7-8	4000	1	1
11	St. Abbs Head	1022.8	0	WNW	4	c	60	55	8	8	6	-	4-6	7-8	1500	0	2
	Leuchars	1022.6	-2	NW	3	c	63	55	9	8	6	-	4-6	7-8	4000	0	*
12	Renfrew (Abbotsinch L.)	1025.0	-6	WNW	5	c	60	65	8	8	6	1	7-8	7-8	4000	0	*
	Eskdalemuir	1024.3	-2	WNW	4	c	59	65	8	8	4	1	4-6	7-8	2500	1	*
	Point of Ayre	1026.8	-2	WNW	4	bc	61	75	8	2	5	5	Tr	4-6	4000	0	2
13A	Tiree	1025.4	-2	WNW	3	c	59	75	8	8	-	-	7-8	7-8	1500	0	3
13B	Stornoway	1023.2	-4	WSW	5	c	57	75	8	5	7	-	7-8	10	1500	1	3
15	Dalwhinnie	1022.3	-4	WSW	1	c	55	75	7	8	-	-	9+	9+	2500	1	*
	Aberdeen	1021.6	-1	NNW	2	c	59	75	8	8	2	-	9+	10	2500	1	1
	Wick	1020.7	-2	NW	4	cq	56	85	8	5	7	8	7-8	9+	1500	1	2
16	Lerwick	1018.2	+6	NW'W	4	c	56	75	8	8	3	-	4-6	7-8	1500	0	*
17	Blacksod Point	1020.0	0	W	2	bc	61	75	8	2	4	4	2-3	4-6	2500	0	1
18	Malin Head	1027.2	-2	NW	3	bc	60	75	8	5	7	2	2-3	4-6	5700	0	2
	Aldergrove	1026.8	-2	WNW	3	c	64	65	9	8	-	8	4-6	7-8	2500	1	*
19	Birr Castle	1027.9	-4	W	1	c	63	65	8	5	-	8	7-8	9	2500	1	*
20	Valentia Obsy. †	1029.1	-2	NNW	4	b	61	65	9	1	-	5	Tr	1	4000	0	2
	Roches Point	1027.9	-6	SW	2	bc	63	75	9	7	-	-	4-6	4-6	4000	0	2

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 28th (37)	Weather. 13h.—18h. 28th (38)	Weather. 18h. 28th to 1h. 29th (39)	Weather. 1h.—7h. 29th (40)
1	London (Kew)	bbcwbcy	bcybq	bybcw	cmow
	Croydon	bmobzbcy	ybc	bcbwbc	bccmo
	S. Farnborough	bcfbbc	bcy	bbc	bcwb,c
	Boscombe Down	bmobc	bcy	bcb	bbcmo
	Calshot (Soton.)	bzobcy	cbcb	pbw	bbcwmo
	Lympne	bbc	bcy	b	bwbcmo
	Manston	bc	bcb	bmo	bmow
2	Shoeburyness	bbcy	bcycy	bcybw	bwbc
	Felixstowe	bvbcvy	bcvy cpro	cpro bmo	bmo
	Gorleston	ybc	bcc	cybc	bc
	Mildenhall	bbc	bcycpro	c,bmow	b,cmow
	Cranwell	czobcy	bcby	bybcb	b,cmo
3	Birmingham	bbc	bc	bc	bccz
	Upper Heyford	bmobcmobc	bc	bcb	bccmoc
4	Ross-on-Wye	fbfzbc	bcy	bcvbv	bwbcc
5	Hartland Point	bc	bc	bcb	bbc
	Bristol	cbcy	bcybc	bcc,bmow	bmobcw
	Portland Bill	bc	bc	b	bcc
	Plymouth		bcbcmo	pw	bwbwb
	The Lizard	bc	bcy	bcb	bc
	Scilly (St. Mary's)	b	bbc	bcbw	bw
6	Pembroke	bc	bc	bc	bcw
7	Holyhead	cbbc	bcbbc	bc	wbc
	Chester (Sealand)	bcomwobcbc		bcbmo	bbcmowf
8	Manchester	ffbccy		bcybbmo	bffcmofg
10	Spurn Head	bc	c	bc	c
	Catterick	cbcy	bcy	bcbbc	bcc
	Tynemouth	cbc	bcfpo	c	c
11	St. Abbs Head	bccy	rcy		iroc
	Leuchars	cy	cycccy	cycroroc	ciroc
12	Renfrew (Abbotsinch L.)	cwc	c	ciro	ciroc
	Eskdalemuir	bcy	bcyc		bcc
	Point of Ayre	bc	bc	bc	c
13A	Tiree	bc	cpro		coro
13B	Stornoway	cpr	cpro	cprodo	
15	Dalwhinnie	cpr	c	ciro	ciro
	Aberdeen	cproc	cproc	ciroc	c
	Wick	a	cprog	moroc	romoc
16	Lerwick	c	c	cbcc	c
17	Blacksod Point	c	bc	b	bc
18	Malin Head	bccbc	c	cbc	c
	Aldergrove	bbcy	cybcc	cbcw	bcwc
19	Birr Castle	c	c	cb	bff
20	Valentia Obsy. †	bccbcv	bcvbv	bcvbw	bwb
	Roches Point	bcybc	bc	b	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" 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.

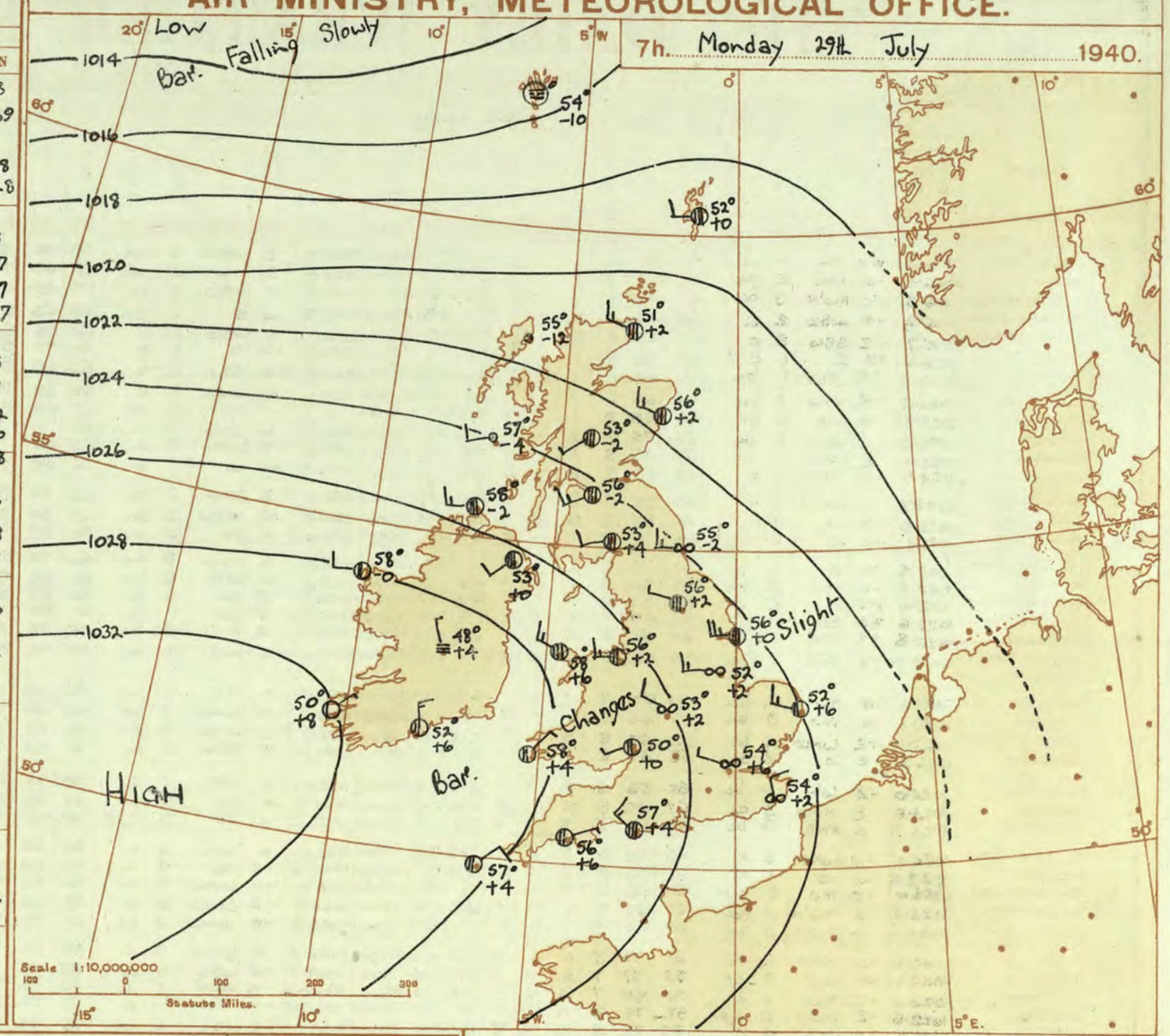
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 28th July				18h. G.M.T.			01h. G.M.T. 29th July				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	26	25845	24586	82	81846	24487	52	51725	24387	6-	22628	24468
115	52	25024	24586				52	03725	24488	--	48109	22469
203												
206	57	02965	24387	82	81955	25227	5-	22848	33468	52	02966	24328
210	83	25955	22487	57	81846	24488	5-	64748	26368	5-	02958	22328
220	73	01854	27204	52	02846	27328						
230	86	25956	24287	87	25956	26387				52	61647	20368
245				87	81956	24287	57	02963	27386	59	02963	26467
260	2-	32966	26316	84	01964	26315	5-	02766	24228	57	22675	22367
277	6	01962	29414	87	01961	29513	07	01790	27314	97	81846	24387
279												
285										8-	03738	28428
288	20	02764	28425	86	17654	05226	57	05663	22314	57	02862	27427
273										20	10652	25402
301	10	01853	28414	20	01961	27414	50	01763	26303	84	81845	28326
321	10	01762	26414	86	01863	26414	5-	05661	26311	07	05690	26328
299	80	05654	32314	[illegible]	0 75[illegible]	00013	60	05653	25213	57	02744	26317
292	10	01954	28325	46	01954	31214	03	00790	24111	54	02855	28217
310										--	03528	32428
316	20	05664	28315	[illegible]	01862	[illegible]	00	00690	32200	04	01590	28315
333	10	01962	30313	40	01961	28304	53	00761	00013	50	01843	30215
334											01852	00003
340	10	01954	29314	80	01962	30314	04	05690	20101			
136	20	01753	26314	80	05651	29212				57	05641	26315
336											01852	28413
350				20	00763	24113				00	05690	25125
368	26	01763	22213	26	01961	24303	00	00790	28101	00	01890	31114
379	10	05664	24114	20	01864	24214	00	05690	30300	00	05690	28215
390	10	01753	25213	40	05662	26212	53	05664	25314	53	05662	27315
382	8-	02755	24225	26	01852	26203	40	00771	00001	00	01890	28215
438	70	01764	22314							50	01754	32314
430	20	02765	28215	26	00871	20302	00	00790	28100	03	01790	32114
409	84	00862	32202	80	00852	31313	00	00790	25100	00	01990	04203

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. 29th July, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light northwest to variable breeze; fine; some early morning mist; warmer.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind northwest backing west, light to moderate; mainly fine but cloud increasing; average temperature.
12 S.W. Scotland & Isle of Man.	Wind southwest, moderate; mainly cloudy; some light rain or drizzle near the coast and on the hills; average temperature.
13 A. W. Scotld. / B. N.W. Scotland.	Wind southwest moderate, freshening slowly; cloudy, occasional rain or drizzle; average temperature.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	
17 N. W. Ireland 18 N. E. Ireland	as 7-11
19 S. E. Ireland 20 S. W. Ireland	as 1-6

GENERAL INFERENCE.

A large anticyclone is centred off S.W. Ireland, with a ridge extending to North France. A deep depression north west of Iceland will move east. Over England, Wales and most of Ireland weather will continue fine, but conditions will be mainly cloudy in Scotland with some light occasional rain or drizzle chiefly in West and North.

FURTHER OUTLOOK.

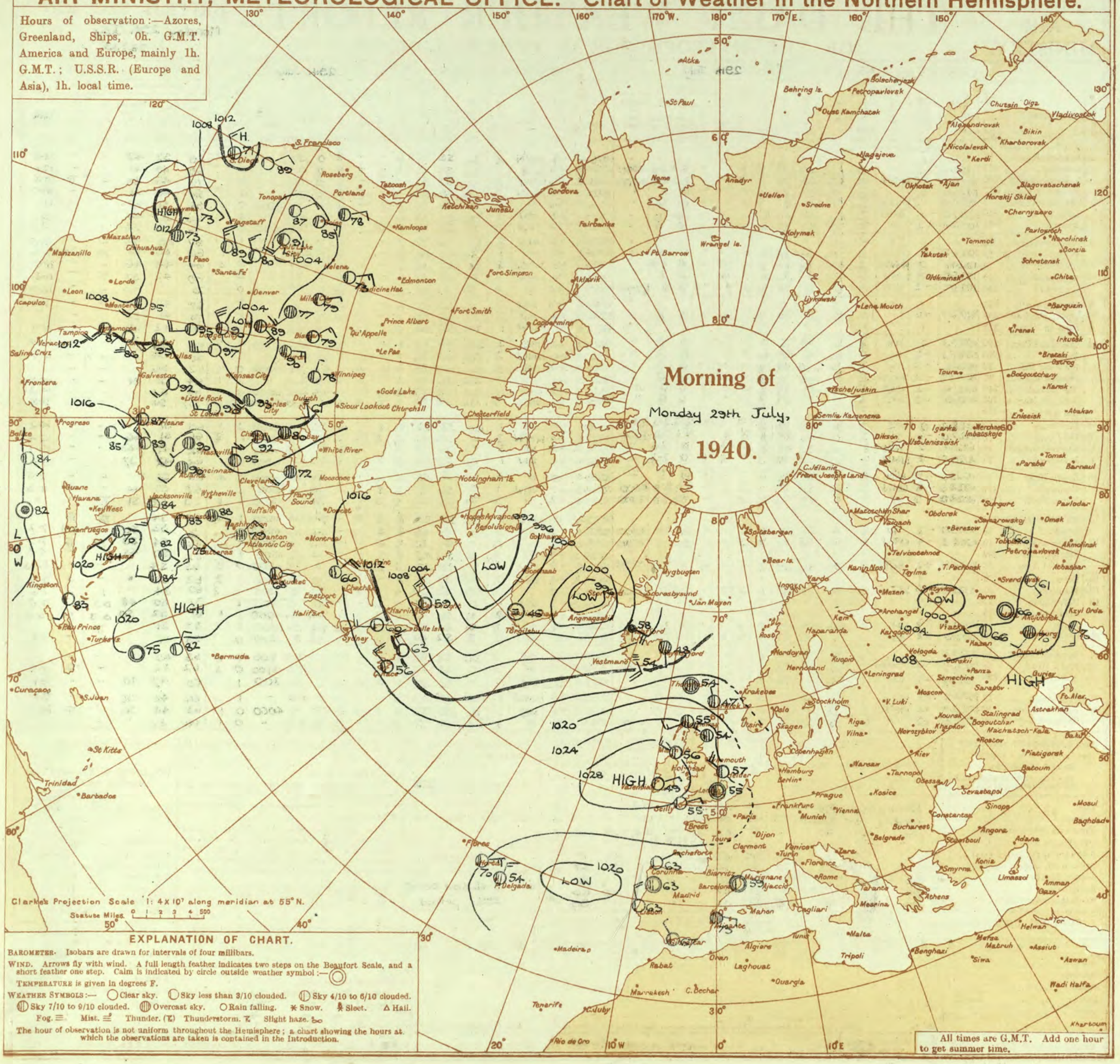
Fine or fair in the southern half of the country. Rather unsettled in northern districts.

Forecasts issued at 10.30 a.m.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C 64/3902. m. 5045. D. 3705. G. 948. (5803.8/40)

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 29th July 1940.

No. 28,735

OBSERVATIONS at 1 hr. G.M.T. 29th July

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	1025·4	−2	–	0	bc	55	92	7	5	–	–	2-3	2-3	4000
	S. Farnborough	226	1026·2	+2	WNW	2	bc	54	85	7	5	–	–	2-3	2-3	2500
	Boscombe Down	417	1026·4	0	–	0	zo	50	92	6	–	–	–	0	1	–
	Calshot (Sthmtn.)	8	1026·0	−2	NW'N	2	b	51	92	7	–	–	–	0	0	–
	Lympne ...	346	1025·5	−0	NNW	2	zo	52	92	6	–	–	–	0	0	–
	Manston ...	154	1025·1	−2	W	2	zo	52	97	6	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1024·8	0	NW	3	zo	55	85	6	–	–	–	0	0	–
	Gorleston ...	5	1024·1	0	NNW	2	bc	56	85	7	–	4	–	0	2-3	–
	Mildenhall ...	19	1025·0	+4	WNW	1	zo	47	92	6	–	4	–	0	1	–
	Cranwell ...	240	1025·3	−2	NW	3	b	51	85	6	5	–	–	Tr	Tr	5700
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026·7	+6	–	0	b	50	85	7	–	6	–	0	Tr	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027·3	0	NE	2	b	58	75	8	–	–	–	0	0	–
	Bristol ...	209	1027·2	+2	–	0	zo	51	85	6	–	–	–	0	0	–
	Portland Bill ...	32	1026·6	−2	W	2	b	58	92	8	–	–	–	0	0	–
	Plymouth ...	82	1027·2	−2	NNW	2	b	55	85	8	–	–	–	0	0	–
	The Lizard ...	240	1027·6	−2	NNE	4	b	55	85	8	–	–	–	0	0	–
	Scilly (St. Mary's)	163	1027·9	−2	NE	2	b	55	92	7	–	–	–	0	0	–
	Guernsey ...	175														
6	Pembroke ...	142	1028·0	0	N'E	2	bc	53	75	8	7	–	–	2-3	2-3	2500
7	Holyhead ...	26	1027·0	−6	W	2	c	56	85	8	5	3	–	4-6	7-8	4000
	Chester (Sealand)	16	1027·1	0	W'N	2	zo	52	85	6	–	3	–	0	2-3	–
8	Manchester ...	70	1026·5	−2	WNW	1	bcf+	45	97	3	–	3	1	0	2-3	–
10	Spurn Head ...	29	1023·9	−2	W'N	4	b	57	75	6	–	–	1	0	1	–
	Catterick ...	175	1024·5	−6	WNW	3	bc	53	85	7	5	5	–	2-3	4-6	4000
	Tynemouth ...	108	1024·0	−2	W	3	c	54	75	6	8	–	–	7-8	7-8	2500
11	St. Abbs Head	280														
	Leuchars ...	36	1023·0	−2	W	2	c	55	75	8	5	–	–	7-8	7-8	2500
12	Renfrew (Abbots I.)	19	1025·2	−4	WSW	3	ir.	55	92	7	5	7	–	9+	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1026·9	+2	NW'N	4	bc	56	92	8	4	4	4	Tr	4-6	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1023·0	−6	WSW	3	c	55	97	7	5	7	–	7-8	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1020·5	−6	W	3	r.r.	54	97	7	5	2	–	9	10	450
16	Lerwick ...	156	1019·3	+2	NNW	1	c	47	92	8	5	3	–	4-6	7-8	1500
17	Blacksod Point	18	1028·8	−2	–	0	b	49	97	8	–	–	–	0	0	–
18	Malin Head ...	84	1026·7	−4	NW'W	3	bc	56	75	8	5	–	–	4-6	4-6	5700
	Aldergrove ...	268	1027·7	−2	W'S	1	bc	51	85	8	–	4	6	0	4-6	–
19	Birr Castle ...	173	1029·0	+4	WSW	1	b	49	97	8	–	–	–	0	0	–
20	Valentia Obsy.	30	1029·9	+2	NE'E	1	b	49	92	9	–	–	–	0	0	–
	Roches Point	22	1028·8	+2	N	4	b	53	85	8	5	–	–	1	1	4000

OBSERVATIONS at 7 hr. G.M.T. 29th July

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)
London (Kew)	1026·4	+8	NW'N	2	zo	55	85	6	–	–	2	0	9+	–	1	*
Croydon ...	1025·8	+6	W'N	1	zo	54	75	6	–	–	6	0	9	–	0	*
S. Farnborough	1026·8	+6	WNW	1	c	52	85	7	–	–	6	0	7-8	–	0	*
Boscombe Down	1027·3	+6	NW'N	2	zo	49	85	8	–	–	2	0	7-8	–	0	*
Calshot (Sthmtn.)	1026·5	+6	N	3	c	55	75	6	1	–	6	Tr	9	5700	0	1
Lympne ...	1025·1	+2	N'W	2	bc	54	75	6	–	–	2	0	4-6	–	0	2
Manston ...	1025·2	+6	N'W	3	zo	56	85	6	5	–	6	4-6	4-6	1500	0	
Shoeburyness ...	1025·4	+6	NNW	3	bc	56	75	7	–	–	6	0	4-6	–	1	*
Felixstowe ...	1024·7	+2	NW	3	zo	54	85	6	–	–	6	0	4-6	–	1	1
Gorleston ...	1023·7	+6	WNW	3	bc	52	92	6	–	4	–	0	2-3	–	0	2
Mildenhall ...	1025·3	+6	WNW	2	zo	53	92	6	–	7	6	0	9	–	0	*
Cranwell ...	1025·3	+2	W	3	zo	52	85	6	–	5	6	0	9+	–	0	*
Birmingham ...	1026·3	+2	NW	2	zo	53	85	6	–	–	8	0	9	–	1	*
Upper Heyford	1026·9	+6	NW	3	c	52	85	7	–	–	6	0	9	–	1	*
Ross-on-Wye	1027·3	0	SW'W	1	bc	50	85	9	–	–	2	0	4-6	–	1	*
Hartland Point	1027·7	+4	NE	2	bc	59	75	9	4	–	6	1	4-6	2500	0	2
Bristol ...	1027·8	+4	WNW	2	bc	53	85	7	–	–	6	0	4-6	–	0	*
Portland Bill ...	1026·3	+4	NE	3	c	57	85	8	1	4	–	4-6	7-8	4000	0	2
Plymouth ...	1027·5	+6	E'N	1	bc	56	75	8	–	–	2	0	2-3	–	0	1
The Lizard ...	1027·8	0	NNE	2	bc	58	75	8	7	–	–	4-6	4-6	2500	0	1
Scilly (St. Mary's)	1028·0	+4	NE'N	2	bc	57	82	8	2	4	4	1	2-3	2500	0	0
Guernsey ...																
Pembroke ...	1028·1	+4	NE	1	bc	58	92	8	4	7	3	2-3	2-3	2500	0	1
Holyhead ...	1027·1	+6	NW'W	3	c	58	85	8	8	4	2	Tr	7-8	1500	1	2
Chester (Sealand)	1026·9	+2	W	3	c	56	75	8	1	7	9	2-3	7-8	4000	1	*
Manchester ...	1026·4	+4	SW	1	zo	53	92	5	7	3	1	2-3	9	4000	0	
Spurn Head ...	1024·3	0	W	5	c	56	85	6	5	–	–	9+	9+	4000	0	4
Catterick ...	1024·3	+2	WNW	1	c	56	85	8	5	7	–	2-3	10	1500	0	*
Tynemouth ...	1023·4	−2	W	3	zo	55	85	5	5	–	–	9+	9+	1500	1	1
St. Abbs Head	1022·0	0	WNW	4	ir.	55	85	8	5	2	–	7-8	9+	1500	1	3
Leuchars ...	1022·4	−2	SW	3	c	56	85	8	5	7	–	4-6	9+	4000	1	*
Renfrew (Abbots I.)	1024·5	−2	SW'W	3	c	56	85	8	5	–	–	10	10	1500	1	*
Eskdalemuir ...	1024·3	+4	W'S	2	c	53	85	8	5	–	–	10	10	1500	1	
Point of Ayre ...	1026·4	−2	NW	4	c	56	92	8	2	4	–	1	7-8	1500	0	3
Tiree ...	1023·8	−4	W'S	2	dd	57	97	7	–	2	–	10	10	1500	1	2
Stornoway ...	1021·2	−12			r.r.	55	97	6	5	2	–	7-8	10	1500	1	2
Dalwhinnie ...	1023·5	−2	SW	1	c	53	85	7	6	–	–	10	10	800	1	*
Aberdeen ...	1021·2	+2	WNW	3	c	56	85	8	5	7	–	4-6	9+	4000	1	1
Wick ...	1020·4	+2	WNW	3	c	51	92	7	5	7	8	7-8	9+	1500	1	1
Lerwick ...	1019·1	0	W	2	c	52	85	8	5	7	–	7-8	9	1500	0	*
Blacksod Point	1028·2	0	W	2	bc	58	85	8	3	–	4	1	2-3	800	0	2
Malin Head ...	1025·6	−2	W	3	c	58	85	8	8	–	–	7-8	7-8	5700	0	3
Aldergrove ...	1027·4	0	SW	2	c	53	92	8	5	3	2	1	9+	800	1	*
Birr Castle ...	1029·5	+4	NNW	1	bcf	48	97	3	–	–	8	0	4-6	–	1	*
Valentia Obsy.	1030·3	+8	NE	1	b	50	92	9	1	4	4	Tr	1	4000	0	1
Roches Point	1029·1	+6	N	3	bc	52	92	8	–	–	5	0	2-3	–	0	1

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 28h. Hrs. (36)
London (Kew)	69	52	42	–	–	12·8
Croydon ...	69	49	41	–	–	12·1
S. Farnborough	69	49	41	–	–	12·1
Boscombe Down	70	45	38	–	Tr	10·4
Calshot (Sthmtn.)	68	45	41	–	–	10·0
Lympne ...	68	51	47	–	–	13·1
Manston ...	63	51	46	–	–	13·2
Shoeburyness ...	66	50	50	–	–	12·7
Felixstowe ...	67	49	43	–	–	13·0
Gorleston ...	69	50	47	Tr	0·4	11·6
Mildenhall ...	66	48	46	–	–	11·5
Cranwell ...	69	42	37	Tr	–	11·8
Birmingham ...	70		45	–	–	13·9
Upper Heyford	67	48	40	–	–	11·1
Ross-on-Wye	70	41	39	–	–	*
Hartland Point	71	42	36	–	–	11·3
Bristol ...	62	51	49	–	–	13·4
Portland Bill ...	69	44	34	–	–	11·5
Plymouth ...	62	56	*	–	–	
The Lizard ...	64	51	41	–	–	10·9
Scilly (St. Mary's)	68	52	*	–	–	14·2
Guernsey ...	(70)	54	*	–	–	11·8
Pembroke ...	65	51	*	–	–	14·2
Holyhead ...	61	51	46	–	–	12·1
Chester (Sealand)	62	47	43	–	–	12·1
Manchester ...	64	42	37	–	–	11·3
Spurn Head ...	63	52	*	–	–	12·5
Catterick ...	67	52	44	–	–	11·3
Tynemouth ...	59	52	51	Tr	–	*
St. Abbs Head	60	54	*	Tr	Tr	*
Leuchars ...	66	53	50	–	0·4	7·7
Renfrew (Abbots I.)	63	54	50	Tr	Tr	7·2
Eskdalemuir ...	62	50	45	–	–	10·8
Point of Ayre ...	65	54	*	–	–	12·3
Tiree ...	62	55	*	–	3	3·2
Stornoway ...	60	54	*	1	2	1·6
Dalwhinnie ...	57	50	48	0·3	2	0·8
Aberdeen ...	61	52	50	0·3	0·1	3·4
Wick ...	59	51	*	Tr	6	
Lerwick ...	58	46	*	–	–	8·1
Blacksod Point	63	49	*	–	–	*
Malin Head ...	62	52	*	–	Tr	12·5
Aldergrove ...	60	47	40	–	–	10·1
Birr Castle ...	66	42	38	–	–	7·1
Valentia Obsy.	63	44	36	–	Tr	14·5
Roches Point	66	52	*	–	–	*

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	bbcwy	bcyby	bycmw	69	52	42	–	–	12·8	•	•	7
Croydon ...	217	bmobcy	ybc	bwbcmo	69	49	41	–	–	12·1	•	•	6
Greenwich (Royal Observatory)...	149	by	cy	cbc	70	51	42	–	–	11·2	46	56	7
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	70	52	49	Tr			61	71	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	70	50	46	–	–		51	67	•
Camden Square ...	110			•	71	51	46	–	–	•	•	61	•
Kensington ...	80	bc	bc	•	71	51	47	–	–		46	60	•
Hampstead Observatory ...	450	bc	bc	bc	68	47	46	–	–		•	80	•

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.
0·1	5–6h. 29th.	<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 ...											•	•		

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

0	Calm.	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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 30th July 1940.

No. 28740

OBSERVATIONS at 13h. G.M.T. 29th July

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)	1025·6	-8	NW'N	3	c	65	45	8	8	-	1	7-8	7-8	4000
	Croydon	1025·3	-4	NW	3	c	65	55	8	1	-	-	7-8	7-8	3500
	S. Farnborough	1025·7	-4	NW'N	3	c	66	45	8	7	-	-	7-8	7-8	3500
	Boscombe Down	1026·0	-6	NNW	3	bc	64	45	8	1	-	4	4-6	4-6	4000
	Calshot (Soton.)	1026·0	-4	N	3	c	68	45	8	1	-	-	7-8	7-8	3500
	Lympne	1024·8	-4	NW'W	2	bc	64	55	8	1	-	8	4-6	4-6	2500
	Manston	1024·9	-4	N'W	3	c	65	65	7	1	-	6	4-6	7-8	2500
2	Shoeburyness	1025·0	-4	NW	3	bc	67	55	8	1	-	-	4-6	4-6	4000
	Felixstowe	1024·3	-6	NW'N	3	c	69	55	8	1	-	6	7-8	7-8	3000
	Gorleston	1023·8	0	NW	4	bc	65	55	7	2	-	-	4-6	4-6	3000
	Mildenhall	1024·4	-6	NNW	3	c	66	85	7	3	4	2	4-6	7-8	4000
	Cranwell	1024·6	-8	NW	2	Z_o	65	55	6	8	7	6	4-6	9+	2500
3	Birmingham	1026·3	-4	NW	3	c	63	55	8	7	-	9	4-6	9	4000
	Upper Heyford	1025·9	-4	NW	3	Z_o	65	55	7	8	-	6	7-8	7-8	3500
4	Ross-on-Wye	1026·1	-6	NNW	3	c	65	55	9	7	-	6	4-6	7-8	4000
5	Hartland Point	1028·2	0	WNW	3	bc	62	85	9	2	-	6	2-3	4-6	2500
	Bristol	1027·1	-4	WNW	2	bc	65	65	8	8	6	1	4-6	4-6	3000
	Portland Bill	1027·1	+2	SW	2	bc	62	75	8	1	-	-	4-6	4-6	4000
	Plymouth	1027·7	0	SSW	3	c	62	75	8	7	-	-	7-8	7-8	3500
	The Lizard	1028·8	+8	-	0	c	62	65	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1029·1	+6	NNE	2	bc	63	65	8	2	4	4	1	4-6	2500
	Guernsey														
6	Pembroke	1028·2	0	NNW	2	bc	63	65	8	1	7	1	2-3	4-6	2500
7	Holyhead	1027·6	-2	W	3	c	64	65	9	2	4	2	Tr	9	2500
	Chester (Sealand)	1026·7	0	NW	5	c	63	55	8	1	9	6	2-3	9+	3500
8	Manchester	1026·2	+2	WNW	4	c	63	65	8	7	7	1	4-6	9+	2800
10	Spurn Head	1023·4	-2	W	4	c	66	65	7	2	1	-	4-6	9+	4000
	Catterick	1023·6	-10	NNW	3	c	61	75	8	7	7	-	4-6	9+	4000
	Tynemouth	1023·4	+4	W	3	c	61	75	7	8	-	-	9	9	3200
11	St. Abbs Head	1021·8	-4	WNW	4	c	58	75	8	5	2	-	7-8	10	1500
	Leuchars	1021·3	-10	WSW	3	c	63	75	8	7	7	-	7-8	10	2500
12	Renfrew (Abbotsinch L.)	1024·1	-4	W	4	$d_o d_o$	59	92	5	5	2	-	4-6	10	1000
	Eskdalemuir	1023·9	0	W'N	3	c	56	85	8	5	-	-	10	10	1500
	Point of Ayre	1026·4	0	WNW	4	c	62	75	8	5	7	-	4-6	9+	2500
13A	Tiree	1022·0	-8	W'S	4	rr	57	97	5	-	2	-	10	10	450
13B	Stornoway	1018·8	-6	WSW	5	r_o	58	97	6	3	2	-	9	10	800
15	Dalwhinnie	1022·0	-6	WSW	2	id_o	56	85	7	6	-	-	10	10	800
	Aberdeen	1019·9	-8	NW'W	3	c	64	65	8	7	7	-	9	9+	2500
	Wick	1018·6	-12	SE	3	c	58	85	9	5	2	-	7-8	10	1500
16	Lerwick	1018·2	-6	S	3	c	53	92	8	3	7	-	7-8	10	800
17	Blacksod Point	1028·6	0	W'S	4	c	63	75	8	3	-	9	4-6	7-8	2500
18	Malin Head	1025·0	-6	W	6	c	60	75	7	6	9	-	4-6	9	4000
	Aldergrove	1026·2	-8	WSW	2	id_o	62	75	8	3	7	-	9	10	2000
19	Birr Castle	1028·4	-6	WNW	2	c	68	55	8	4	-	1	7-8	9	2500
20	Valentia Obsy. †	1030·5	0	NW	3	bc	63	75	9	7	-	2	1	4-6	2500
	Roches Point	1029·3	-4	S	2	bc	63	75	9	1	-	-	4-6	4-6	4000

OBSERVATIONS at 18h. G.M.T. 29th July

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. (20)	°Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1024·6	-4	NW	2	c	67	55	8	5	2	-	9	10	7200	1	*
	Croydon	1024·5	-2	NW'N	3	c	67	55	7	5	1	-	4-6	9+	4500	0	*
	S. Farnborough	1024·5	-8	WNW	2	c	67	55	8	7	6	2	2-3	9	4000	0	*
	Boscombe Down	1025·0	-6	NW'N	3	c	67	55	8	1	3	2	2-3	9	3500	0	*
	Calshot (Soton.)	1024·7	-10	NW'N	3	c	68	55	8	1	-	8	2-3	9	4000	0	1
	Lympne	1024·3	-2	N'W	1	bc	64	55	8	1	-	4	Tr	4-6	3000	0	§1
	Manston	1023·9	-4	NNW	2	c	65	65	7	5	4	1	7-8	9	2500	0	*
2	Shoeburyness	1024·2	-6	N'W	2	c	65	65	8	3	7	-	7-8	10	4000	1	*
	Felixstowe	1023·6	-8	NW	3	c	66	65	7	8	-	-	9+	9+	4500	1	2
	Gorleston	1023·0	-6	NW	2	c	64	65	7	5	-	-	9	9	2400	0	2
	Mildenhall	1023·3	-8	WNW	4	Z_o	64	75	6	5	-	-	9+	9+	4500	0	*
	Cranwell	1024·0	-2	NW	2	c	63	45	7	5	7	-	4-6	9+	3500	0	*
3	Birmingham	1025·4	-4	NNW	3	c	63	55	8	5	4	8	1	7-8	5700	1	*
	Upper Heyford	1024·9	-2	NNW	3	c	65	65	8	1	7	6	Tr	9+	3500	1	*
4	Ross-on-Wye	1025·2	-4	WNW	3	c	65	65	9	3	-	6	4-6	9	4000	0	*
5	Hartland Point	1027·2	-6	NW	3	bc	60	75	9	1	-	5	1	4-6	2500	0	2
	Bristol	1025·6	-6	WNW	3	c	65	65	8	2	7	6	2-3	7-8	3500	0	*
	Portland Bill	1026·2	-6	W	3	c	61	85	8	2	4	-	4-6	9	4000	0	2
	Plymouth	1026·8	-6	NW'N	4	bc	65	55	9	1	-	2	1	2-3	4000	0	2
	The Lizard	1027·9	-4	NNW	4	bc	64	65	8	8	5	-	4-6	4-6	4000	0	2
	Scilly (St. Mary's)	1028·7	-2	N'W	2	bc	63	75	8	2	-	4	Tr	4-6	2500	0	1
	Guernsey																
6	Pembroke	1027·5	-4	WNW	1	bc	62	65	8	7	7	1	2-3	4-6	2500	0	1
7	Holyhead	1026·0	-12	SW'S	3	c	60	75	9	1	3	-	Tr	7-8	3500	0	2
	Chester (Sealand)	1025·7	-6	W	4	c	63	55	8	1	3	-	Tr	9+	2500	0	*
8	Manchester	1025·2	-4	WNW	3	c	61	65	8	5	7	-	7-8	9+	6500	0	*
10	Spurn Head	1023·0	0	-	0	i_o	59	85	6	5	-	-	10	10	4000	1	1
	Catterick	1023·3	-2	NW	3	c	62	65	8	5	2	-	4-6	9+	2200	0	
	Tynemouth	1022·4	-4	W	4	$s_p r$	60	75	7	8	-	-	9+	9+	4000	1	1
11	St. Abbs Head	1019·8	-10	WNW	5	$s_p r$	57	75	7	5	2	-	7-8	10	1500	1	3
	Leuchars	1019·9	-6	SW	3	c	59	75	8	5	-	-	9+	9+	2500	1	*
12	Renfrew (Abbotsinch L.)	1022·5	-14	WSW	5	i_o	57	92	8	5	2	-	7-8	10	1200	1	*
	Eskdalemuir	1022·4	-8	W'N	4	$r_o r_o$	56	85	6	6	-	-	10	10	800	1	*
	Point of Ayre	1024·7	-8	WNW	4	c	61	85	8	5	4	-	4-6	9	4000	0	2
13A	Tiree	1021·4	0	WNW	4	$d_o d_o$	58	97	5	-	2	-	10	10	450	1	4
13B	Stornoway	1019·9	+4	W	4	$d_o d_o$	57	97	6	5	2	-	9+	10	800	1	2
15	Dalwhinnie	1020·4	-2	WSW	3	c	57	85	8	6	1	-	9	10	800	1	*
	Aberdeen	1018·6	-6	WSW	2	d_p	64	75	7	9	3	-	9+	9+	1500	1	1
	Wick	1017·4	-4	N	2	rr	58	97	5	5	2	-	7-8	10	450	1	1
16	Lerwick	1016·6	-4	SW	3	c	56	92	8	8	7	-	7-8	9	800	0	*
17	Blacksod Point	1028·4	0	W'S	4	c	61	85	8	5	-	-	9	9	1500	0	2
18	Malin Head	1024·0	-4	W	6	$s_p r$	58	97	6	6	-	-	9+	9+	4000	0	3
	Aldergrove	1025·2	-6	W'S	4	c	62	75	8	5	7	-	9	9+	2500	1	*
19	Birr Castle	1028·1	-2	WSW	2	c	63	65	8	5	1	-	7-8	9	2500	1	*
20	Valentia Obsy. †	1030·0	-2	NNW	4	c	62	75	9	1	-	2	Tr	9	2500	0	2
	Roches Point	1028·2	-6	WSW	3	c	63	65	9	5	-	6	4-6	7-8	2500	0	2

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 22nd (37)	Weather. 13h.—18h. 29th (38)	Weather. 18h. 29th 1h. 30th (39)	Weather. 1h.—7h. 30th (40)
1	London (Kew)	cmwccy	cy	cybc	c
	Croydon	cmbcy	bccy	cybbcw	bcc
	S. Farnborough	cbcy	bccy⊕	cyb,c	c
	Boscombe Down	cbc	bccy	cb	cmoci_oc
	Calshot (Soton.)	czbcy	bcycy	cycbcb	bbcmowc
	Lympne	bcm,c⊕cy	bcy	bcybw	bcwci_o
	Manston	cmbc	bcc	bcmocmo	cmoc
2	Shoeburyness	⊕bcy	bcyc	cbcb,bw	bwc
	Felixstowe	cbcy	bcycy	ccz$_o$	czoi_o,mo
	Gorleston	bccy	bcyc	c	c
	Mildenhall	cm,wc	cm,cz$_o$	czocmo	cdodomo
	Cranwell	cm,y	czy	czoyid_o	cidomo
3	Birmingham	cbcc	cbc	bcc	cr$_o$oid_o
	Upper Heyford	bczbc	bcc	c	cromoc
4	Ross-on-Wye	bc	bcwcv	cvbcc	coro
5	Hartland Point	bc	bc	bc	bc
	Bristol	bc	bc	bbcw	bcci_oc
	Portland Bill	cbc	c	bcb	c
	Plymouth	bybc	bc	bcbyb	bcc
	The Lizard	bcc	cbc	bcbw	bc
	Scilly (St. Mary's)	bbc	bc	bcby	bw
	Guernsey				
6	Pembroke	bc	bc	bcw	bcc
7	Holyhead	bcc⊕	c	$r_o r_o$oc	$c_o r_o$oc
	Chester (Sealand)	cy	cbccy	cymoddod$_o$	cmoddodoc
8	Manchester	cm$_o$c	c	pro$r_o r_o$	pycmorod_o
10	Spurn Head	c	oir_o	r_oo	o
	Catterick	c	ccir$_o$c	ccror_oc	c
	Tynemouth	c	cp$_o$	cbc	c
11	St. Abbs Head	ir$_o$c	r$_o$r$_o$c	ir$_o$c	cbcc
	Leuchars	c	cccc	cir$_o$	cir$_o$bcc$r_o r_o$
12	Renfrew (Abbotsinch L.)	cird_o	cir$_o$	cir$_o$fr$_o$c	cbcc
	Eskdalemuir	cir$_o$	cr$_o r_o$	r$_o$r$_o$c	cbc
	Point of Ayre	c	c	rrc	proc
13A	Tiree	odrdr	odrR	odom	od$_o$
13B	Stornoway	cr$_o r_o$	cr$_o r_o$	cPR	c
15	Dalwhinnie	cir$_o$	c	c	c
	Aberdeen	c	ccpr	cproc	cir$_o$c
	Wick	cpr$_o$c	prcrr	rrdod	d$_o$d$_o$c
16	Lerwick	c	cid$_o$	cfrom	prffc
17	Blacksod Point	bc	c	c	dd
18	Malin Head	cpr$_o$c	c	c	cpr$_o$c
	Aldergrove	c	cid$_o$c	cidoc	ccidoc
19	Birr Castle	cy	c	c	c
20	Valentia Obsy. †	bbccbcv	bcvcv	cvbcvbw	bwbcwcwbc
	Roches Point	bc	c	cbcb	bcc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29—STATE OF GROUND.

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

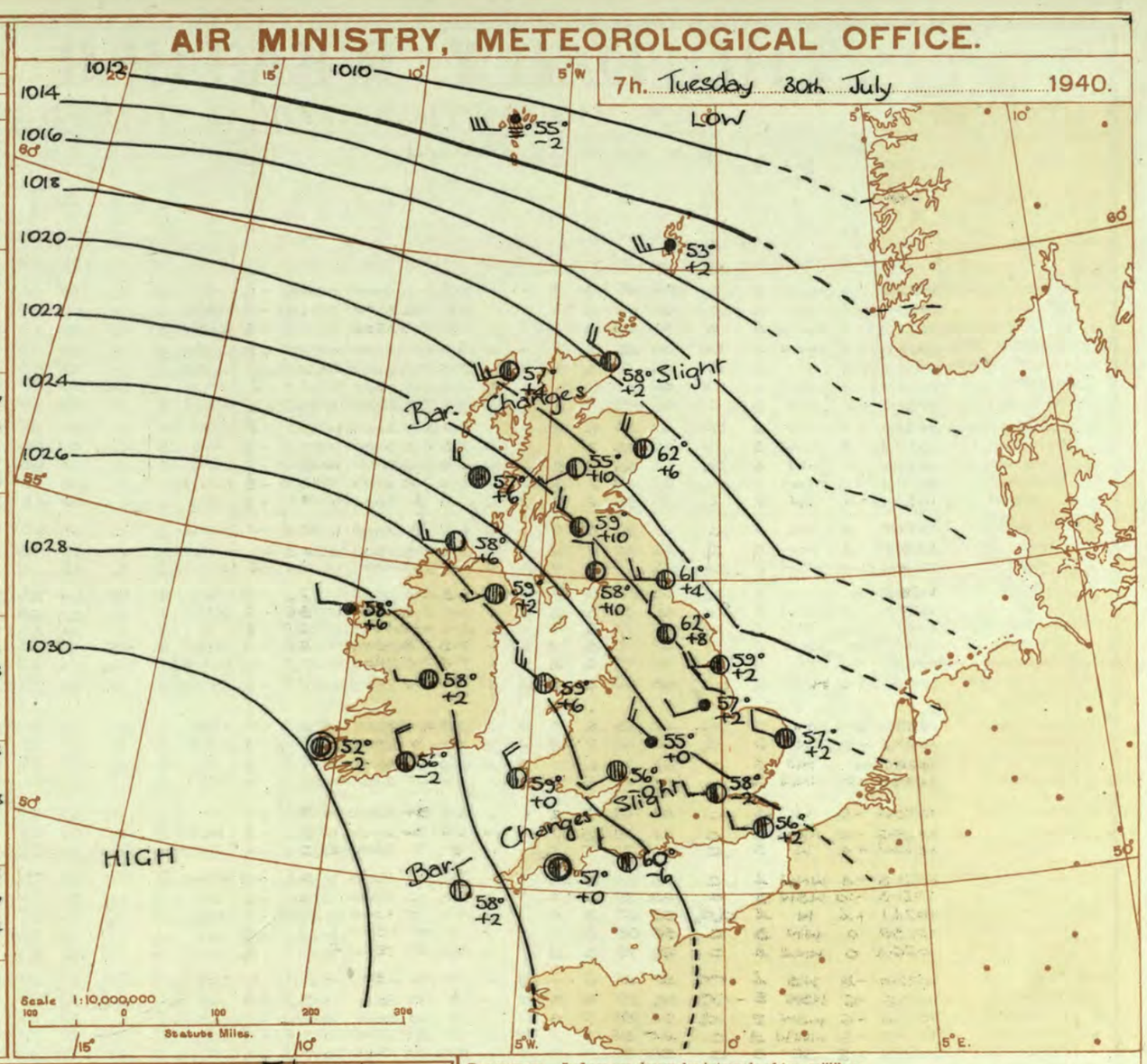
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

Abridged observations of additional stations in the
AVIATION WEATHER CODE

	13h. G.M.T. 29th July			18h. G.M.T.			01h. G.M.T. 30th July			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-	51838	22558	57	02786	24427	5-	03418	20528	5-	54418	26658
115	--	57109	20459	--	57109	21469	--	67109	22469	--	57109	22459
203												
206	5-	81748	24388	57	02955	24267	5-	01954	21464	53	02965	23367
210	52	62855	22527	52	51934	24368				5-	02955	224
220	6-	64518	24368	6-	54418	25258				6-	54518	23258
230	62	58636	20468				5-	21745	24355	5-	02758	24158
245	51	02966	21368	57	21954	22467	52	61867	23228	57	22964	25367
266	62	20743	22328	52	25744	20485				57	61643	22217
276	52	22845	24568	52	63746	24368	--	57309	29469	62	21627	27558
279												
285	8-	02847	24527	8-	61638	26528				6-	02637	24527
288	37	02854	26327	57	61855	26328	5-	05668	20368	54	05663	24225
273	37	10653	26615							46	01644	28456
301	87	02854	26316	57	61752	24467	52	62735	57468	52	51746	28458
321	87	02754	28327	07	02790	26427	07	05690	26358	52	02666	27227
299	87	02744	30315	62	22644	31267				57	02745	00016
292	77	02954	28326	77	02854	24327	52	05646	20268	5-	02957	22127
310	--	02636	32316									
316				07	02690	26327	52	61655	24358	5-	05548	24158
333	13	02963	28426	13	01962	24324	5-	61755	28315	5-	51738	28458
334	--	02855	26315	--	02884	28315				--	03748	26228
340	10	02964	28326	47	02963	28316	5-	61858	24168	02	21848	28258
136	83	02756	26427				52	62655	28468	52	02745	22368
336	--	02853	28414	--	01852	28413				--	03742	28428
350	10	02764	27425	83	02890	28315				51	02836	24228
368	23	01854	28315	40	01961	26315	50	00763	26103			
379	20	02855	30316	40	02764	30226	03	05630	28126	52	02755	24328
390	46	01764	27415				53	05665	28317	57	02764	26327
382	10	01864	28214	40	02963	29227	07	02790	00026	57	02874	24128
438	80	01753	28213							5-	03758	24328
430	10	01764	26314	43	02862	30216	07	01790	30115	07	02790	24227
409	86	01952	32314	10	01951	32325	00	00890	30200	53	01842	28204

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 July, 1940
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate W. to N.W. wind. Cloudy, with occasional slight drizzle early, becoming mainly fair. Average temperature but rather close
5 S.W. England 6 South Wales ...	Light or moderate N.W. wind. Fair; average temperature.
7 North Wales ... 8 N.W. England	Moderate N.W. wind, fresh locally. Cloudy, with occasional drizzle, mainly on coasts. Average temperature.
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	Moderate W. wind, fresh locally. Cloudy with occasional drizzle. Much coast and hill fog. Average temperature
16 Orkneys and Shetlands	Fresh or strong westerly wind. Dull, with much drizzle and sea fog. Average temperature.
17 N. W. Ireland 18 N. E. Ireland	Light or moderate W. wind, cloudy, with occasional drizzle; local coast fog; average temperature.
19 S. E. Ireland 20 S. W. Ireland	As 5-6

GENERAL INFERENCE.

An anticyclone lies almost stationary to the SW of the British Isles. Pressure is low to the NE of Iceland, and a trough of low pressure is moving southeastwards across England. In SW. England and in Southern Ireland weather will continue fair, but elsewhere weather will be rather unsettled, with occasional rain or drizzle, mainly slight. Temperature will be near the average, but it will be rather close.

FURTHER OUTLOOK.

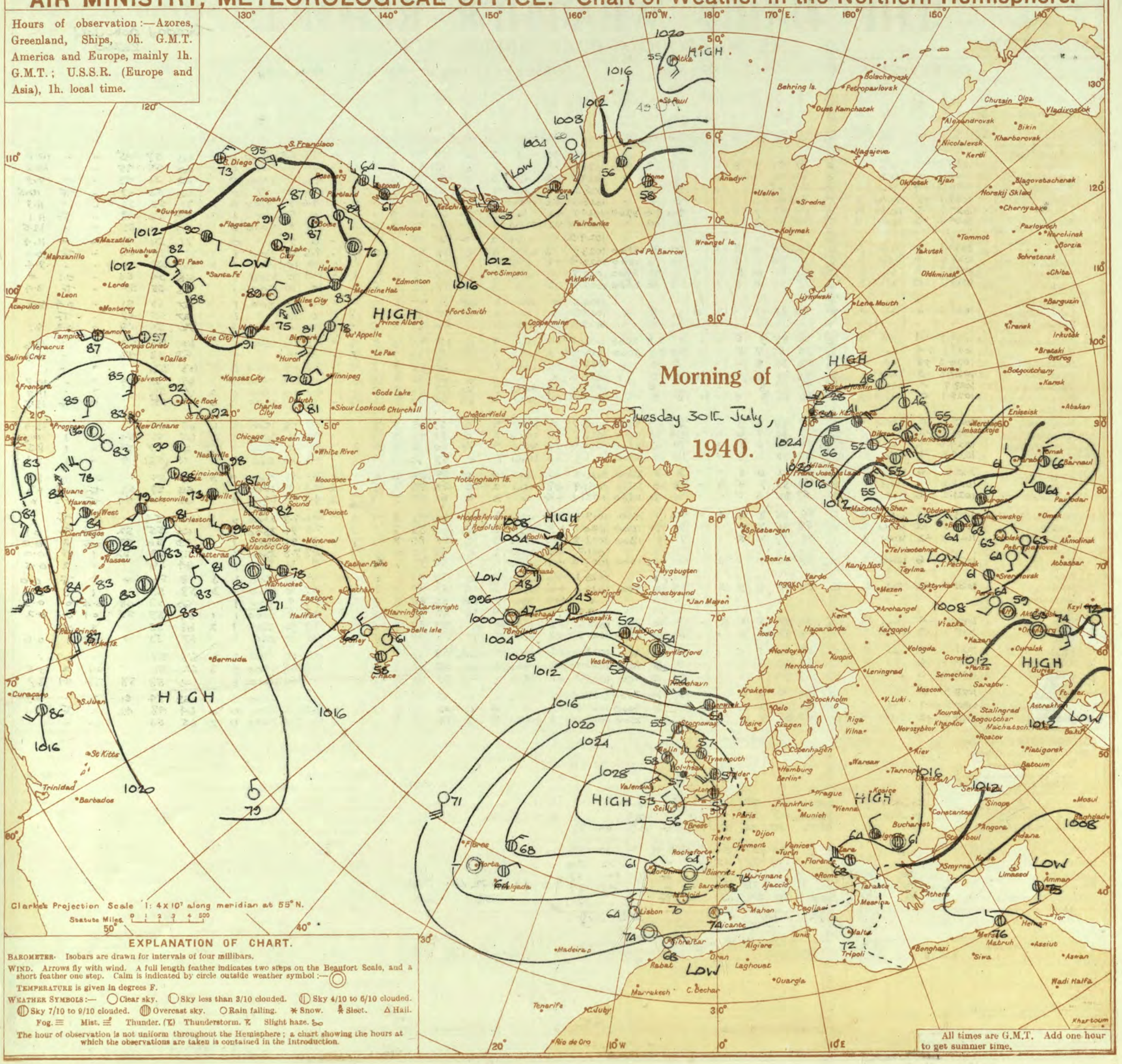
Continuing fair in SW. Unsettled in the North.

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

Tuesday 30th July, 1940.

No 28740.

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

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	1024·9	-2	W'S	1	e	57	85	7	5	*	-	2-3	2-3	5700
	S. Farnborough	226	1025·7	-2	W'S	1	c	52	92	7	-	3	-	0	9+	-
	Boscombe Down	417	1026·3	+4	NW	1	zo	54	85	6	-	2	-	0	7-8	-
	Calshot (Sthmtn.)	8	1025·6	+2	NNW	3	zo	56	85	6	-	7	-	0	1	-
	Lympne ...	346	1024·7	-2	NW'N	2	bc	54	85	7	5	-	-	4-6	4-6	3200
	Manston ...	154	1024·2	-2	NW'N	3	zo	60	75	6	-	1	-	0	10	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1023·8	-4	NW	3	zo	60	75	6	5	3	-	2-3	9	5700
	Gorleston ...	5	1022·8	-6	W'N	1	c	58	85	6	5	-	-	10	10	1500
	Mildenhall ...	19	1023·9	-2	W	2	zo	56	85	6	5	-	-	9+	9+	5700
	Cranwell ...	240	1023·7	-10	W	3	ido	57	85	6	5	7	-	7-8	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1025·5	-2	W	2	c	56	85	7	-	7	2	0	9	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027·5	-4	NW	2	bc	59	85	9	5	1	1	1	2-3	2500
	Bristol ...	209	1027·1	+4	W	1	c	55	85	7	5	-	-	7-8	7-8	3500
	Portland Bill ...	32	1026·3	+8	W	3	b	58	85	8	-	-	-	0	0	-
	Plymouth ...	82	1027·8	0	NW	1	b	54	85	8	-	-	1	0	Tr	-
	The Lizard ...	240	1028·7	0	NNW	3	b	52	97	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1029·1	0	NW'N	2	b	56	85	8	-	-	-	0	0	-
	Guernsey ...	175														
6	Pembroke ...	142	1027·8	0	NNW	4	c	59	85	8	5	-	-	2-3	2-3	2500
7	Holyhead ...	26	1028·8	-2	W'N	4	rsg	57	92	7	6	2	-	4-6	10	1200
	Chester (Sealand)	16	1024·6	-6	W	3	dodo	58	85	6	5	-	-	10	10	2500
8	Manchester ...	70	1024·3	-6	W'N	4	rsr	52	92	5	5	-	-	10	10	2000
10	Spurn Head ...	29	1022·3	-6	WSW	5	o	57	92	6	5	-	-	9	9	2500
	Catterick ...	175	1021·6	-10	NW	1	c	59	85	7	5	2	-	7-8	10	1500
	Tynemouth ...	108	1021·2	-6	W	3	c	57	85	6	5	-	-	9+	9+	2500
11	St. Abbs Head	280	1019·2	+2	WNW	4	c	59	85	8	4	4	-	4-6	9	1500
	Leuchars ...	36	1019·5	+2	WSW	3	ir	58	85	7	5	-	-	9+	9+	1500
12	Renfrew (Abbots I.)	19	1021·6	-2	WNW	3	c	58	97	7	5	-	-	9	9	1300
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1023·7	-6	WNW	5	ido	57	97	7	-	2	-	10	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1020·4	+2	SW	3	c	55	97	6	5	2	-	7-8	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1017·4	-4	NW	4	cq	56	97	5	5	2	-	9	10	450
16	Lerwick ...	156	1015·3	-8	WSW	4	m	54	97	4	5	-	-	10	10	<150
17	Blacksod Point	18	1027·7	-8	W	2	c	58	92	7	5	-	-	10	10	800
18	Malin Head ...	84	1024·9	+6	NW	3	c	58	92	8	6	-	-	9	9	4000
	Aldergrove ...	268	1024·6	-6	WNW	2	c	59	92	7	5	-	-	10	10	700
19	Birr Castle ...	173	1028·3	-2	W	2	c	56	92	8	5	-	-	9+	9+	2500
20	Valentia Obsy.	30	1030·2	-4	NE	1	b	53	92	9	1	4	-	Tr	Tr	4000
	Roches Point	22	1029·4	+2	SW'W	4	b	55	85	8	5	-	-	1	1	2500

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

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	+2	W	2	c	59	75	7	5	7	-	4-6	7-8	2500	0	*
Croydon ...	1024·3	-2	W	2	c	58	85	7	5	7	-	4-6	9+	4000	0	*
S. Farnborough	1024·9	+2	W	3	c	58	75	8	5	3	-	4-6	9+	7200	0	*
Boscombe Down	1025·5	+2	WNW	1	zo	57	85	7	-	7	-	0	9+	-	0	*
Calshot (Sthmtn.)	1025·2	+2	NW'W	2	c	59	75	7	5	7	-	4-6	9	5700	0	0
Lympne ...	1024·7	+2	W	2	c/r	56	85	6	-	7	-	0	9+	-	1	§2
Manston ...	1024·0	+2	NW'W	3	c	60	75	7	5	3	-	7-8	9	4000	0	*
Shoeburyness ...	1024·2	0	W'N	2	c	60	75	7	-	9	-	0	9	-	0	*
Felixstowe ...	1023·2	-2	WNW	3	c	58	85	7	5	7	-	4-6	9+	1300	1	1
Gorleston ...	1022·4	+2	W'N	2	c	57	85	7	5	-	-	10	10	1400	0	2
Mildenhall ...	1022·9	0	W'S	3	zo	57	92	6	5	2	-	7-8	10	2500	1	*
Cranwell ...	1022·7	+2	W'S	2	ido	57	92	6	5	-	-	10	10	1500	1	*
Birmingham ...	1024·2	0	NW	3	dd	55	97	5	6	-	-	10	10	800	1	*
Upper Heyford	1024·8	0	W	3	c	58	85	8	-	7	-	0	10	-	1	*
Ross-on-Wye	1025·3	0	SW	1	o	56	85	8	5	-	-	10	10	2500	1	*
Hartland Point	1026·9	+6	NW	4	bc	58	92	8	8	4	-	2-3	2-3	2500	0	2
Bristol ...	1025·9	-2	WNW	2	c/r	57	92	7	-	7	-	0	10	-	0	*
Portland Bill ...	1026·2	-6	WNW	2	c	60	85	8	5	4	-	7-8	10	4000	0	2
Plymouth ...	1027·0	0	-	0	c	57	85	8	5	3	1	4-6	7-8	4500	0	1
The Lizard ...	1028·0	+4	NNW	3	bc	57	92	8	7	-	-	4-6	9-6	2500	0	2
Scilly (St. Mary's)	1028·4	+2	N'W	2	bc	58	92	8	2	4	-	1	2-3	2500	0	0
Guernsey ...																
Pembroke ...	1026·9	0	NNW	4	c	59	92	8	8	-	-	7-8	7-8	1500	0	1
Holyhead ...	1025·5	+6	NW'W	5	c	59	92	7	5	1	-	9+	10	3500	1	3
Chester (Sealand)	1024·4	+6	WNW	4	c/d	60	85	7	5	2	-	9+	10	1200	1	*
Manchester ...	1023·3	+6	WNW	5	c	59	92	7	5	2	-	4-6	10	600	1	*
Spurn Head ...	1021·5	+2	W	4	o	59	85	6	5	-	-	9+	9+	1500	0	3
Catterick ...	1021·8	+8	NW	2	c	62	85	8	5	-	6	7-8	9	1800	1	*
Tynemouth ...	1021·1	+4	W	3	c	61	85	7	8	3	2	4-6	7-8	3200	1	1
St. Abbs Head	1019·1	+4	WNW	4	c	60	75	8	4	6	-	4-6	7-8	2500	0	2
Leuchars ...	1020·1	+8	WSW	3	ir	60	85	8	5	7	-	7-8	9+	2500	1	*
Renfrew (Abbots I.)	1022·8	+10	WNW	3	c	59	85	8	5	7	-	9	9+	1500	1	*
Eskdalemuir ...	1021·7	+10	NW'N	2	c	58	75	8	5	7	-	2-3	7-8	2500	1	*
Point of Ayre ...	1024·4	+8	NW'N	5	c	58	97	7	8	1	-	9	9+	800	1	3
Tiree ...	1023·1	+6	WNW	3	o	57	97	6	5	-	-	10	10	800	1	3
Stornoway ...	1020·8	+4	WSW	5	c	57	97	8	1	2	-	7-8	10	1500	1	3
Dalwhinnie ...	*	+10	SW	1	c	55	85	8	7	5	-	4-6	9	800	1	*
Aberdeen ...	1018·8	+6	NW	4	c/r	62	75	8	5	3	-	7-8	9	4000	1	1
Wick ...	1017·6	+2	NW	4	c	58	85	9	5	9	8	7-8	9+	1500	1	2
Lerwick ...	1013·5	+2	W'S	5	ir	53	97	4	5	-	-	10	10	220	1	*
Blacksod Point	1028·2	+6	W	2	dodo	58	97	7	6	-	-	10	10	<150	1	2
Malin Head ...	1025·1	+6	W	3	c	58	92	8	6	-	-	7-8	7-8	5700	0	3
Aldergrove ...	1025·7	+2	WSW	1	c/d	59	92	8	5	-	-	10	10	600	1	*
Birr Castle ...	1028·4	+2	W	1	c	58	85	8	5	-	-	10	10	2500	1	*
Valentia Obsy.	1029·9	-2	-	0	c	52	97	9	7	7	4	2-3	7-8	2500	0	0
Roches Point	1028·0	-2	NNW	4	c	56	92	8	5	-	5	1	7-8	2500	0	2

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine Hrs. (36)
London (Kew)	68	57	45	-	-	10·0
Croydon ...	69	55	45	-	-	10·5
S. Farnborough	69	55	45	-	-	9·9
Boscombe Down	69	51	43	-	-	9·9
Calshot (Sthmtn.)	68	53	49	-	Tr	10·5
Lympne ...	71	55	52	-	-	11·9
Manston ...	67	53	48	-	Tr	11·1
Shoeburyness ...	68		53	-	-	12·5
Felixstowe ...	71	56	49	-	-	11·4
Gorleston ...	71	57	54	-	Tr	10·0
Mildenhall ...	66	55	51	-	-	9·4
Cranwell ...	68	54	53	-	0·1	*
Birmingham ...	68	55	55	-	Tr	3·4
Upper Heyford	67	53	51	-	0·4	8·8
Ross-on-Wye	67	55	49	-	Tr	*
Hartland Point	70	54	48	-	0·3	9·1
Bristol ...	63	57	54	-	-	13·6
Portland Bill ...	69	53	43	-	-	10·8
Plymouth ...	63	56	*	-	-	*
The Lizard ...	67	53	44	-	-	10·7
Scilly (St. Mary's)	67	52	*	-	-	11·5
Guernsey ...	65	55	*	-	Tr	13·5
Pembroke ...	65	55	*	-	-	13·4
Holyhead ...	65	57	54	-	1	10·3
Chester (Sealand)	65	57	55	-	1	8·5
Manchester ...	65	(52)	49	-	1	5·2
Spurn Head ...	67	55	*	0·1	1	1·8
Catterick ...	65	57	53	Tr	0·5	1·3
Tynemouth ...	62	56	54	Tr	0·3	*
St. Abbs Head	60	54	*	0·2	Tr	*
Leuchars ...	64	55	52	0·4	Tr	0·1
Renfrew (Abbots I.)	59	56	53	0·5	2	0·0
Eskdalemuir ...	57	53	52	1	4	0·0
Point of Ayre ...	64	56	*	-	2	0·5
Tiree ...	58	56	*	9	Tr	0·0
Stornoway ...	58	55	*	1	3	0·0
Dalwhinnie ...	60	53	48	0·4	0·1	0·3
Aberdeen ...	64	59	55	0·1	0·1	0·2
Wick ...	64	55	*	1	0·3	*
Lerwick ...	57	52	*	Tr	1	0·6
Blacksod Point	63	57	*	-	0·3	*
Malin Head ...	62	56	*	0·1	2	0·5
Aldergrove ...	67	58	58	Tr	0·1	3·7
Birr Castle ...	63	54	51	-	-	9·2
Valentia Obsy.	64	48	42	-	Tr	14·1
Roches Point	65	53	*	-	-	*

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	cmobcy	cy	cybcc	68	57	45	-	-	10·0	*	*	7
Croydon ...	217	cmobcy	bccy	cybc:bc	69	55	45	-	-	10·5	*	*	6
Greenwich (Royal Observatory) ...	149	bcy	bccy	bccdo	70	55	51	-	Tr	10·3	44	83	
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	70	57	54	-	-		61	83	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	70	57	52	-	-		52	80	*
Camden Square ...	110	bc	bc	*	71	58	52	-	Tr	*	*	77	*
Kensington ...	80	bc	bc	*	70	56	49	-	-		49	74	*
Hampstead Observatory ...	450	bc	bc	bcp	70	54	51	-	Tr		*	81	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	20-24h	<0·1	7-20h
	29th		29th

FOREIGN OBSERVATIONS.

18h. G.M.T. 29th July — 7h. G.M.T. 30th July

Stations	18h. Barom. mb.	18h. Wind. Direc.	18h. Wind. Force	18h. Weather.	18h. Temp. °F.	7h. Barom. mb.	7h. Wind. Direc.	7h. Wind. Force	7h. Weather.	7h. Temp. °F.	Past 24 Hours. Max. Day °F.	Past 24 Hours. Min. Night °F.	Past 24 Hours. Rainfall. Day mm.	Past 24 Hours. 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

Wednesday 31st. July 1940.

No. 28741

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

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)...	1025·6	0	NW'W	2	zo	63	75	6	5	-	-	10	10	1500
	Croydon ...	1025·3	+2	W'N	2	c	62	97	7	5	-	-	10	10	1200
	S. Farnborough	1025·6	-2	NW'W	3	c	63	75	7	5	-	-	10	10	1300
	Boscombe Down	1026·1	-4	NW'N	4	c	64	75	7	5	-	-	9+	9+	2000
	Calshot (Soton.)	1025·6	-2	NNW	2	c	66	75	7	5	-	-	10	10	3000
	Lympne ...	1024·8	+2	WNW	3	c	63	75	8	5	-	-	10	10	2000
	Manston ...	1024·7	+2	NW	3	Zo	63	75	6	5	2	-	7-8	10	1200
2	Shoeburyness ...	1024·9	+2	W'N	2	c	64	75	7	8	-	-	10	10	2500
	Felixstowe ...	1024·0	+2	WNW	3	o	63	75	7	5	-	-	10	10	1800
	Gorleston ...	1023·5	+6	NE'E	2	c	62	85	7	5	-	-	9+	9+	2600
	Mildenhall ...	1023·9	+2	W'N	2	zo	63	85	6	5	2	-	7-8	10	1600
	Cranwell ...	1023·8	+4	NW	3	zo	68	65	6	5	-	-	9+	9+	2000
3	Birmingham	1025·4	+4	NW	4	c	64	75	6	5	-	-	9	9	1500
	Upper Heyford	1025·2	-2	W'N	3	c	64	85	7	5	2	-	7-8	10	1200
4	Ross-on-Wye ...	1025·5	0	NNW	3	c	67	75	8	7	-	-	9	9	2500
5	Hartland Point	1027·8	0	N	2	c	62	85	8	7	2	-	4-6	9+	2000
	Bristol ...	1026·5	-4	W	3	c	65	85	7	5	7	-	9	10	2000
	Portland Bill ...	1026·1	-12	W	3	c	62	85	8	1	4	-	4-6	7-8	4000
	Plymouth ...	1027·5	0	N	3	c	69	65	8	1	7	-	7-8	7-8	2500
	The Lizard ...	1028·4	+4	N	2	bc	68	65	8	8	6	-	4-6	4-6	4000
	Scilly (St. Mary's)	1029·4	+4	N'W	2	bc	64	75	8	4	4	3	2-3	4-6	2500
	Guernsey ...														
6	Pembroke ...	1028·0	+4	NW'N	2	bc	63	85	8	2	6	1	2-3	4-6	2500
7	Holyhead ...	1027·0	+2	NNW	3	c	62	85	8	5	-	-	10	10	2000
	Chester (Sealand)	1026·1	+6	WNW	5	c	64	75	7	5	-	-	7-8	9+	1200
8	Manchester ...	1025·1	+6	WNW	4	c	65	75	7	5	3	-	7-8	9+	1100
10	Spurn Head ...	1023·1	+4	WSW	2	c	69	75	7	5	-	-	9	9	4000
	Catterick ...	1022·6	+4	NNW	1	c	72	65	8	8	4	2	1	7-8	4000
	Tynemouth ...	1022·0	+6	W	3	c	70	65	8	8	-	-	7-8	7-8	4000
11	St. Abbs Head	1021·0	+8	WNW	4	bc	67	65	8	1	5	5	2-3	4-6	2500
	Leuchars ...	1021·3	+2	WNW	4	c	70	55	8	2	7	6	2-3	9+	3500
12	Renfrew (Abbots I.)	1024·3	+10	W'N	4	c	63	85	8	5	3	1	9	9+	1600
	Eskdalemuir ...	1023·6	+8	NW'W	3	c	63	75	8	8	4	9	7-8	7-8	2500
	Point of Ayre ...	1026·1	+10	NNW	4	c	65	85	8	8	4	6	1	7-8	1500
13A	Tiree ...	1024·3	0	W	4	c	60	85	7	5	-	-	9+	9+	1500
13B	Stornoway ...	1021·4	+2	SW	5	iro	58	97	7	5	2	-	4-6	10	800
15	Dalwhinnie ...	1023·2	+8	SW	2	c	58	85	8	5	1	-	4-6	10	800
	Aberdeen ...	1020·3	+4	NW	4	c	68	65	8	4	7	-	4-6	9+	4000
	Wick ...	1018·9	+4	NW	4	c	62	85	8	5	1	8	4-6	9+	800
16	Lerwick...	1013·8	+2	W	6	c	56	92	7	5	1	-	7-8	10	800
17	Blacksod Point..	1029·3	+4	W	2	ido	60	92	7	6	-	-	10	10	800
18	Malin Head ...	1026·3	+4	W	4	c	61	85	7	5	2	-	4-6	9+	1500
	Aldergrove ...	1027·1	+10	W'N	3	c	66	75	8	5	-	-	9+	9+	2000
19	Birr Castle ...	1028·7	0	W'N	1	c	65	75	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1030·1	-2	NW'N	3	b	64	75	9	7	-	1	Tr	1	2500
	Roches Point ...	1028·9	-2	NW'N	2	bc	68	75	9	1	-	5	2-3	4-6	4000

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

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)	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)	1025·2	0	NW'N	2	zo	66	75	6	5	-	-	10	10	1500	0	*
Croydon	1024·6	-6	NW	2	c	65	85	6	5	-	-	10	10	1500	0	*
S. Farnborough	1025·3	-2	NW	3	c	67	65	7	5	-	-	9+	9+	3200	0	*
Boscombe Down	1025·5	-2	NW	2	c	68	75	8	8	-	-	7-8	7-8	3500	0	*
Calshot (Soton.)	1025·4	-2	NW	2	c	69	75	7	5	-	-	9+	9+	3500	0	1
Lympne	1025·3	+2	W'N	1	zo	62	85	6	5	2	-	9	10	2500	0	§2
Manston	1025·2	+6	WNW	2	zo	63	85	6	5	2	-	7-8	10	1200	0	*
Shoeburyness	1025·0	+2	WNW	2	o	65	85	6	5	-	-	10	10	2500	0	*
Felixstowe	1024·2	+2	W'N	2	zo	65	85	6	5	-	-	10	10	2500	1	1
Gorleston	1024·2	+6	S	1	c	62	85	7	5	-	-	9+	9+	2400	0	1
Mildenhall	1024·0	-2	SW	1	zo	66	85	6	5	-	-	9+	9+	4000	0	*
Cranwell	1024·3	+10	WNW	3	zo	67	65	6	-	-	1	0	2-3	-	0	*
Birmingham	1025·7	0	NNW	3	c	63	75	7	5	-	2	4-6	7-8	1500	1	*
Upper Heyford	1023·4	+2	NW	3	zo	65	75	6	5	-	1	9	9	1600	1	*
Ross-on-Wye	1025·1	-4	N'W	3	c	68	75	8	5	-	-	9	9+	4000	0	*
Hartland Point	1027·7	0	N	2	c	61	92	8	5	-	-	9	9	2500	0	2
Bristol	1025·7	-2	W	2	c	70	75	7	4	3	1	1	7-8	2500	0	*
Portland Bill	1026·5	+10	W	2	bc	62	85	8	5	-	-	4-6	4-6	4000	0	2
Plymouth	1026·9	+2	N'E	4	bc	67	75	8	5	-	1	4-6	4-6	2500	0	2
The Lizard	1027·6	-2	NNE	3	bc	65	75	8	2	4	-	2-3	4-6	2500	0	1
Scilly (St. Mary's)	1028·5	-4	N	3	c	62	85	8	5	-	-	9+	9+	2200	0	1
Guernsey																
Pembroke	1027·5	+2	NNW	2	c	65	85	8	5	7	1	4-6	7-8	2500	0	1
Holyhead	1027·2	-2	W'N	3	c	61	85	8	5	-	-	10	10	3000	1	2
Chester (Sealand)	1026·4	+2	NW	5	c	64	75	8	1	7	2	2-3	9+	2500		*
Manchester	1025·9	+2	NW'W	4	c	62	85	7	5	-	-	7-8	9+	2300	0	*
Spurn Head	1023·1	0	E	2	c	62	92	6	5	-	-	9+	9+	2500	0	2
Catterick	1024·3	+12	NW'W	2	c	67	75	8	5	7	-	Tr	10	4000	0	
Tynemouth	1023·1	+6	W	3	c	67	65	7	8	-	-	9+	9+	4000	1	1
St. Abbs Head	1022·1	+4	WNW	5	c	63	65	8	5	7	3	4-6	9+	2500	0	2
Leuchars	1022·5	+10	W	4	iro	65	75	8	8	7	-	4-6	9+	2500	1	*
Renfrew (Abbots I.)	1025·3	+2	W'N	3	roro	60	97	8	5	7	-	7-8	10	1200	1	*
Eskdalemuir	1025·3	+10	NW'W	4	ido	57	92	7	5	-	-	10	10	800	1	*
Point of Ayre	1026·6	0	NW'N	2	c	59	92	8	8	1	-	9	10	1500	0	2
Tiree	1024·6	0	W	4	o	60	92	7	5	-	-	10	10	1500	0	3
Stornoway	1021·6	+2	WSW	6	c	60	85	7	5	7	-	7-8	9+	1500	1	3
Dalwhinnie	1023·1	+4	SW	2	iro	57	85	7	6	1	-	9	10	800	1	*
Aberdeen	1021·2	+4	NW'W	3	iro	65	65	8	4	7	-	Tr	10	1500	1	1
Wick	1019·6	0	W	3	Spr	60	85	8	8	7	7	4-6	10	800	1	2
Lerwick	1014·8	0	W	6	c	55	97	6	5	2	-	7-8	10	450	0	*
Blacksod Point	1029·0	0	W	3	c	60	92	8	5	-	-	10	10	800	0	2
Malin Head	1026·9	+6	W'N	4	c	60	86	8	5	-	-	9	9	5700	0	2
Aldergrove	1027·3	+4	NW	3	c	63	75	9	5	-	-	9+	9+	1400	0	*
Birr Castle	1028·4	-2	NNW	1	c	67	75	8	5	1	-	7-8	9+	2500	1	*
Valentia Obsy. †	1029·2	-4	NW	3	bc	63	75	9	1	-	2	Tr	2-3	2500	0	2
Roches Point	1028·0	-4	SW	2	bc	66	75	9	5	-	5	4-6	4-6	2500	0	2

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 30th. (37)	13h.—18h. 30th. (38)	18h. 30th. to 1h. 31st. (39)	1h.—7h. 31st. (40)
London (Kew)	ccmo	cmoccmo	cmoc	cw
Croydon	cidmoc	cmo	cmobcw	wbmocmo
S. Farnborough	cidoc	c	cmobcc	cbcwc
Boscombe Down	idoc	c	cbcmo	bccmo
Calshot (Soton.)	c	c	ccmo	cmo
Lympne	cmoc	cmo	cbcmow	bmowcmo
Manston	c	cirocmo	cmobcm	bmocmo
Shoeburyness	c	cmoido	omo	ocmo
Felixstowe	co	coidomo	omocm	cmo
Gorleston	c	c	co	czozo
Mildenhall	cmocmo	cmo	bccmo	bcmc,w
Cranwell	cidocmo	c,bzo	bzo,cbcmo	bccmo
Birmingham	odoc	c	c	cbc
Upper Heyford	cidoc	ccmo	cmobcmo	bcmoc
Ross-on-Wye	oc	cbcc	cbcb	bcbw
Hartland Point	bcc	c	cbcb	bbcc
Bristol	c	cbcc	cbcbw	bbccw
Portland Bill	c	cbc	ccv	cbc
Plymouth	c	c	bcb	bwb
The Lizard	bc	bc	bcbw	bc
Scilly (St. Mary's)	bbc	bcc	bbcw	bcbw
Guernsey				
Pembroke	cbc	bcc	cbcw	c
Holyhead	coc	c	c	c
Chester (Sealand)	cmoc	c	cmo	bcc
Manchester	cidoc	c	bcmo	cmow
Spurn Head	o	co	bc	c
Catterick	cbc	bcc	cbc	bcc
Tynemouth	c	c	c	c
St. Abbs Head	c	bcc	c	c
Leuchars	ciroebcc	cbcciro	crorooroc	bbcc
Renfrew (Abbots I.)	c	ciroc	roro irobc	bccw
Eskdalemuir	bcc	c	cidoc	cwbc
Point of Ayre	c	c	c	c
Tiree	c	o	oc	c
Stornoway	ciro	ciro	c	cdo
Dalwhinnie	bcc	cdroo		cbc
Aberdeen	cbcc	cciro	roroc	c
Wick	c	cproc	cproc	cq
Lerwick	orfiro	cidiro	cirodom	omciro
Blacksod Point	id	c	bc	bc
Malin Head	ccidoc	c	c	c
Aldergrove	cidoc	c	c	c
Birr Castle	c	c	c	ffc
Valentia Obsy. †	bccbcb	bbccbc	bcbwbc	bcwbc
Roches Point	bc	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/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.*

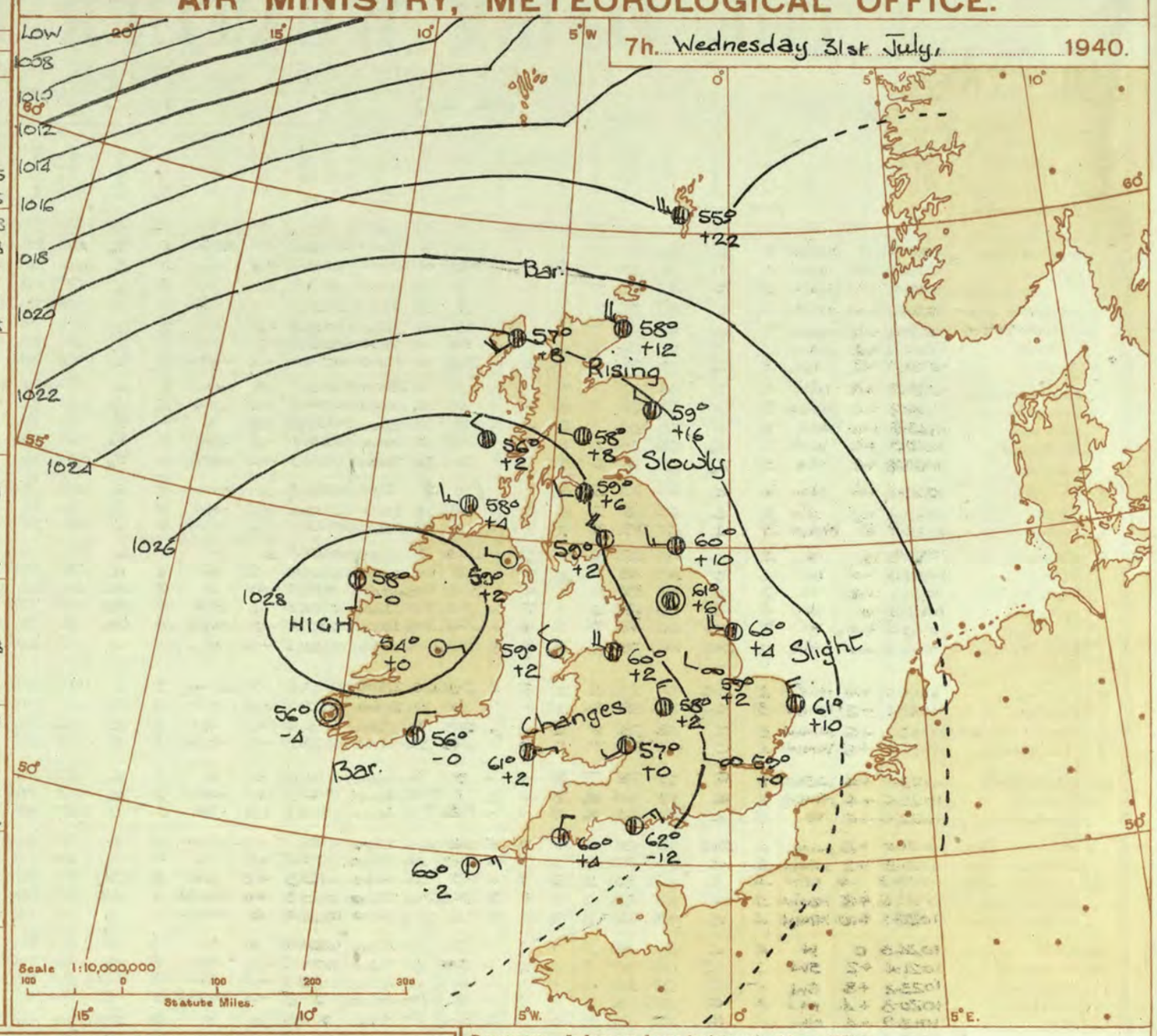
AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 31st July, 1940.

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 30th July			18h. G.M.T.			01h. G.M.T. 31st July			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			57	53527	56637	5-	54418	56758	5-	51638	25553
115 --	57109	21459	--	67109	22569	--	67109	22569	52.	03735	22568
203											
206 52	61965	23468	52	61965	24268	51	02854	23465	5-	02964	22225
210			57	62845	22568	5-	01854	24524	5-	02865	25425
220 5-	03638	24328	52	03747	25228				52	03744	24228
230 5-	10638	26428	57	02746	26328	5-	01844	22224	5-	02848	00028
245 44	02963	26426	47	61951	24528	5-	02877	24467	53	02961	26327
260 50	02965	24415	57	02864	24317	50	01764	24314	00	05690	22215
277 5-	02737	28627	57	02854	28427	5-	02747	27427	5-	02858	27428
279											
285 70	01745	24515	8-	02747	24627				23	01743	28515
288 87	05653	28324	82	02765	28328	07	05690	00014	03	02890	18115
273 84	10543	28626							46	01644	16116
301 54	01744	28415	89	02753	30426	50	01764	30314	53	02745	30426
321 77	02665	28325	54	05661	24326	07	05690	28413	03	05690	27215
299 57	05645	32216	57	05644	00027				57	01744	28314
292 83	01852	26314	77	02854	30325	50	00763	26113	57	02972	00016
310 --	03528	24448	--	02628	24528						
316 5-	02547	26327	00	05690	28414	07	01690	30219	06	02590	38226
333 43	02746	28428	52	02965	28328	5-	02868	26328	53	02942	32215
334 --	02746	31326	--	02756	32427				--	02744	04116
340 5-	02848	27328	50	02854	29326	50	05628	28228	5-	02848	30328
136 52	05645	23326	5-	05668	00018	04	05690	25312	03	05690	29215
336 --	02854	28427	--	01852	28414				--	01852	20414
350 52	05646	28258	53	01754	26325				13	05681	28225
368 57	05644	26327	50	01871	28315	5-	02764	00018	54	02766	30117
379 5-	05648	28328	40	05664	28215	00	05690	30100	13	05636	32216
390 5-	05648	25428	5-	05558	26328	00	08490	26210	57	05664	27328
382 5-	02758	24258	73	01757	30315	53	05690	28113	52	05657	28227
438 5-	02767	24327							57	01763	00014
430 57	02855	26227	5-	02758	30228	00	05590	32110	52	05667	30128
409 57	02847	28317	5-	02847	32327	00	04590	02200	5-	01735	02315

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. 31st July, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light NW wind veering NE; fine, local mist or fog around dawn; rather warm.
5 S.W. England 6 South Wales ...	Light NE wind; fine, local mist or fog around dawn; rather warm.
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 NW to variable wind; fair, bright intervals, local mist or fog around dawn; rather warm.
13 { A. W. Scotld. B. N.W. Scotland.	Moderate W wind becoming light variable; cloudy with local drizzle, some bright intervals later, some patches of coast fog; average temperature.
14 Mid Scotland	
15 N. E. Scotland	Moderate NW wind; fair, bright intervals; rather warm.
16 Orkneys and Shetlands	Fresh westerly wind; cloudy, with local fog and drizzle; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light variable winds; fair, bright intervals; rather warm.

GENERAL INFERENCE.

An anticyclone centred over Ireland is moving very slowly NE. A depression over Iceland will move NE, and will later turn eastwards.

Over most of the country weather will be fair with temperatures rather above the average; but in Scotland there will be occasional rain or drizzle, mainly on high ground and on western coasts.

FURTHER OUTLOOK.

Fair over most of the country.

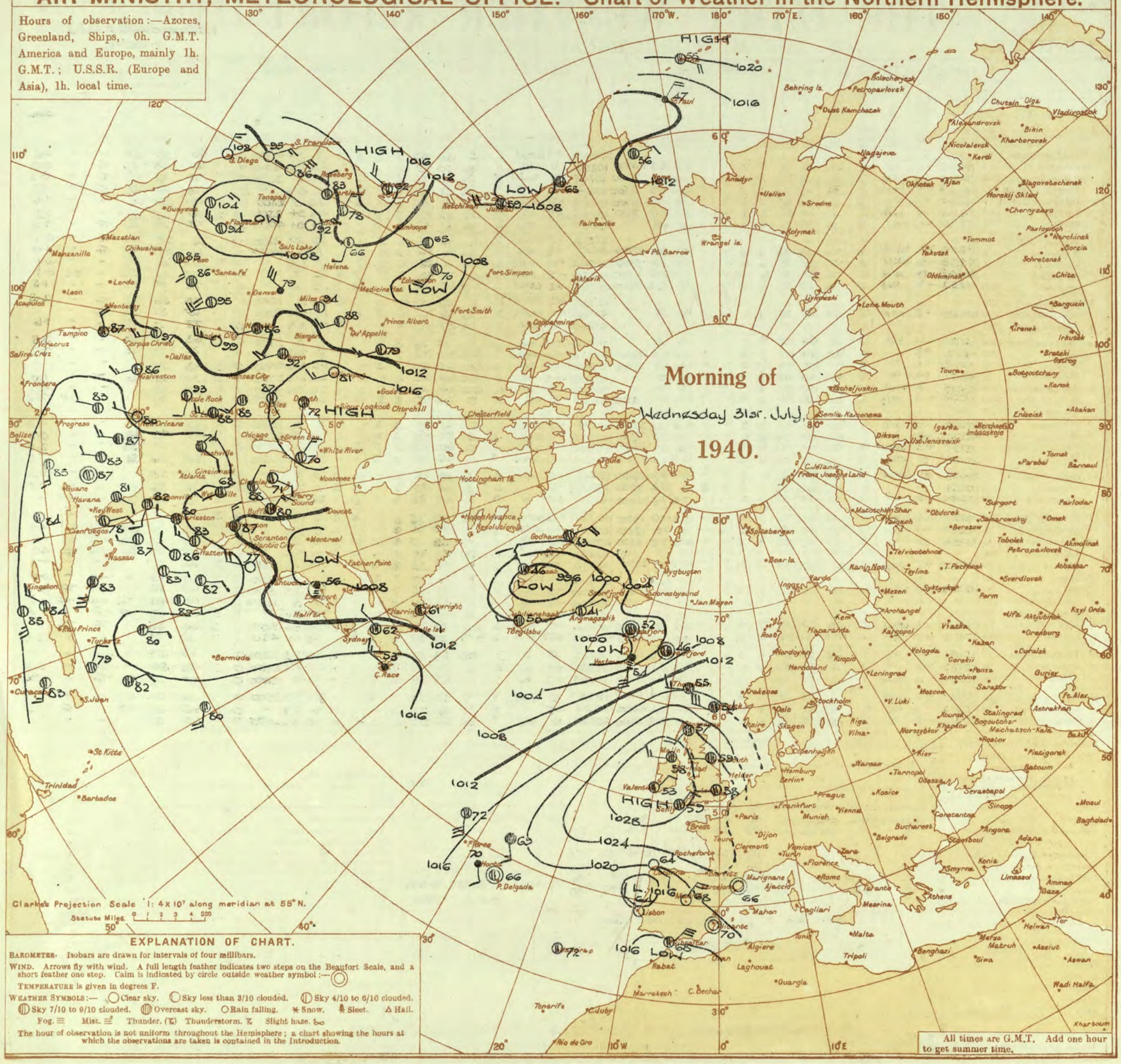
Forecasts issued at 1030 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1.
C.64/3902. m. 8045. O. 3703. G. 348 (3903 a.)/40

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 31st. July, 1940.

No 28741.

OBSERVATIONS at 1 hr. G.M.T. 31st. July

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1025·8	+4	W	2	bc	58	92	5	5	–	–	2-3	2-3	2500
	S. Farnborough	226	1026·3	-2	W'N	2	c	58	92	7	5	–	–	10	10	2200
	Boscombe Down	417	1026·9	+8	NNW	1	zo	57	85	6	5	–	–	2-3	2-3	3500
	Calshot (Sthmtn.)	8	1026·1	+2	N	2	zo	63	85	6	5	–	–	10	10	3000
	Lympne	346	1025·4	-4	NW'N	2	zo	60	85	6	5	–	–	4-6	4-6	1500
	Manston	154	1025·0	-6	NW	2	m	60	92	4	–	–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1024·9	-2	NW'W	3	zo	62	85	5	5	–	–	9+	9+	4700
	Gorleston	5	1023·9	-6	WNW	3	o	62	85	6	6	–	–	10	10	800
	Mildenhall	19	1024·7	0	W'N	2	zo	58	92	6	5	–	–	2-3	2-3	5700
	Cranwell	240	1025·3	-2	NW	2	zo	58	85	5	5	7	–	Tr	2-3	3000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026·0	-2	NW	2	zo	57	92	6	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027·4	-4	NE	2	b	60	92	8	–	–	–	0	0	–
	Bristol	209	1027·4	+2	–	0	bc	59	92	7	5	–	–	2-3	2-3	2500
	Portland Bill	32	1026·3	-6	W	3	o	59	92	7	5	–	–	10	10	2500
	Plymouth	82	1027·1	-2	N	2	b	60	85	7	–	–	–	0	0	–
	The Lizard	240	1027·7	-4	NNE	2	b	57	97	8	–	–	–	0	0	–
	Scilly (St. Mary's)	163	1028·0	-6	NE'N	2	bc	59	97	8	8	–	–	4-6	4-6	2500
	Guernsey	175														
6	Pembroke	142	1028·0	-2	N'W	2	bc	59	97	8	5	–	–	2-3	2-3	2500
7	Holyhead	26	1027·7	+2	N	1	c	58	92	8	5	–	–	10	10	2700
	Chester (Sealand)	16	1027·1	+2	WNW	3	zo	60	85	6	5	–	–	10	10	1800
8	Manchester	70	1026·7	0	WSW	2	zo	57	92	5	5	–	–	2-3	2-3	2200
10	Spurn Head	29	1024·3	0	WNW	3	bc	60	85	6	5	–	–	4-6	4-6	2500
	Catterick	175	1025·1	0	–	0	c	58	85	7	5	7	8	1	7-8	3500
	Tynemouth	108	1024·1	0	W	3	c	59	85	6	5	–	–	7-8	7-8	2500
11	St. Abbs Head	280	1022·7	-6	WNW	5	c	60	75	7	5	2	–	7-8	10	1500
	Leuchars	36	1022·9	-4	WSW	3	c/r	58	85	7	5	2	–	9	10	1800
12	Renfrew (Abbots I.)	19	1025·5	0	W	3	c	57	85	7	5	1	–	4-6	7-8	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1027·2	+2	NW	3	c	58	92	8	5	1	–	4-6	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1023·6	+10	WSW	4	c	57	92	7	5	7	–	9	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1020·2	+2	WNW	5	cq	58	85	7	5	7	–	7-8	10	1500
16	Lerwick	156	1016·0	+10	W	6	m	54	97	4	5	–	–	10	10	220
17	Blacksod Point	18	1028·8	-2	W	1	bc	56	97	8	5	4	–	2-3	4-6	1500
18	Malin Head	84	1027·7	+2	W	3	c	58	85	8	6	–	–	7-8	7-8	5700
	Aldergrove	268	1028·0	-2	NW'W	1	c	59	85	7	5	–	–	9+	9+	1800
19	Birr Castle	173	1028·9	+2	NNW	1	c	58	92	8	5	–	–	7-8	7-8	2500
20	Valentia Obsy.	30	1028·6	-4	NE	1	bc	53	97	9	5	–	–	2-3	2-3	4000
	Roches Point	22	1028·3	-2	N	2	bc	58	92	8	5	–	5	1	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 31st. July

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1025·9	+2	NNW	2	c	61	85	7	5	3	9	9	9+	4000	0	*
Croydon	1025·5	0	W'N	1	zo	59	92	6	5	3	–	4-6	4-6	4000	0	*
S. Farnborough	1026·1	+2	NW'N	2	zo	59	85	6	7	3	–	2-3	9	3500	0	*
Boscombe Down	1026·6	+2	NW	3	zo	58	85	6	–	4	–	0	4-6	–	0	*
Calshot (Sthmtn.)	1026·2	+2	N'W	3	zo	61	85	6	5	3	–	7-8	9	2500	0	1
Lympne	1025·3	+2	N'W	2	zo	59	85	5	5	7	–	4-6	9+	2500	0	§2
Manston	1024·9	+2	NW	3	zo	61	85	5	5	–	–	9+	9+	4000	0	*
Shoeburyness	1025·3	+2	NNW	2	c	61	85	6	5	–	–	10	10	2500	0	*
Felixstowe	1024·7	+2	NNW	3	zo	61	85	6	5	–	1	1	1	4000	1	1
Gorleston	1024·3	+10	NW'N	3	c	61	85	6	–	7	–	0	7-8	–	0	2
Mildenhall	1025·1	+2	NW	2	zo	59	92	6	–	7	6	0	9	–	0	*
Cranwell	1025·5	+2	WNW	2	zo⊕	59	85	6	–	4	7	0	10	–	0	*
Birmingham	1026·5	+2	NNW	3	c	58	92	6	5	–	6	7-8	9	1500	1	*
Upper Heyford	1026·3	+4	NW'N	3	zo	58	85	6	5	3	–	9	9+	800	1	*
Ross-on-Wye	1026·8	0	SW	1	bc	57	92	8	–	–	2	0	2-3	–	0	*
Hartland Point	1026·9	0	NE	3	c	60	97	8	5	–	–	9	9	2500	0	2
Bristol	1027·6	+6	NNW	1	bc	59	92	7	–	4	1	0	2-3	–	0	*
Portland Bill	1026·5	-12	NE	3	bc	62	85	7	5	–	–	4-6	4-6	4000	0	3
Plymouth	1027·0	+4	N'E	1	bc	60	85	6	1	–	1	2-3	2-3	5700	0	0
The Lizard	1026·5	-4	NE	4	bc	60	85	8	7	–	–	2-3	2-3	4000	0	1
Scilly (St. Mary's)	1026·8	-2	NE	3	b	60	97	8	5	4	–	Tr	1	2500	0	1
Guernsey																
Pembroke	1027·8	+2	ENE	1	c	61	97	8	5	–	–	9	9	2500	0	1
Holyhead	1027·9	+2	NW'W	2	c	59	92	8	5	–	–	10	10	3500	1	1
Chester (Sealand)	1027·1	+2	WNW	4	c	60	85	7	7	3	4	7-8	9+	1800	0	*
Manchester	1026·6	-2	WNW	2	c	60	85	7	5	–	–	7-8	9+	1200	1	*
Spurn Head	1024·7	+4	W'N	4	c	60	85	6	–	4	7	0	9	–	0	3
Catterick	1025·3	+6	–	0	c	61	75	8	–	9	8	0	7-8	–	0	*
Tynemouth	1024·1	+10	W	3	c	60	85	6	1	3	1	2-3	7-8	4000	1	1
St. Abbs Head	1023·9	+12	WNW	4	bc	59	75	8	–	4	8	0	4-6	–	0	3
Leuchars	1024·1	+6	WSW	4	c	59	85	8	–	7	6	0	7-8	–	1	*
Renfrew (Abbots I.)	1026·5	+6	W'S	2	c	59	85	8	5	4	6	Tr	9	3000	1	*
Eskdalemuir	1025·1	+2	NW'W	4	bc	59	75	8	–	4	2	0	4-6	–	1	
Point of Ayre	1027·5	+2	NW	3	c	58	92	8	5	5	–	4-6	9	1500	0	2
Tiree	1026·6	+2	NW'W	2	o	56	92	7	5	–	–	10	10	1500	0	2
Stornoway	1024·6	+8	SW	4	c	57	92	7	5	7	–	9	9+	1500	1	2
Dalwhinnie	1024·6	+8	W	1	c	58	75	8	1	–	7	Tr	9	2500	1	*
Aberdeen	1024·1	+16	NW'W	1	c	59	75	8	–	7	–	0	9+	–	1	1
Wick	1022·5	+12	NW	5	cq	58	75	7	5	7	9	4-6	9+	800	1	3
Lerwick	1019·4	+22	W'N	5	c/r	55	97	6	5	2	–	7-8	10	450	1	*
Blacksod Point	1028·5	0	S	1	bc	58	85	8	2	–	2	2-3	2-3	2500	0	1
Malin Head	1027·7	+4	W	3	c	58	85	8	4	6	–	2-3	7-8	5700	0	2
Aldergrove	1028·3	+2	W	1	c	59	85	8	5	–	–	10	10	2000	0	*
Birr Castle	1028·7	0	ENE	1	c	54	97	7	5	–	–	7-8	7-8	2500	0	*
Valentia Obsy.	1027·5	-4	–	0	c	56	97	9	–	–	2	0	7-8	–	0	1
Roches Point	1027·8	0	N'E	2	bc	56	92	8	5	–	5	2-3	4-6	4000	0	1

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)	66	57	49	–	–	0·5
Croydon	65	54	47	Tr	–	0·0
S. Farnborough	69	55	49	Tr	–	0·3
Boscombe Down	68	56	52	Tr	–	2·1
Calshot (Sthmtn.)	69	59	56	–	–	1·4
Lympne	65	57	54	–	–	1·2
Manston	63	59	56	Tr	–	0·5
Shoeburyness	66	58	53	Tr	–	0·1
Felixstowe	66	59	57	Tr	–	0·0
Gorleston	62	58	55	–	–	0·1
Mildenhall	67	55	52	–	0·1	0·1
Cranwell	72	54	53	–	–	1·5
Birmingham	65	56	52	Tr	–	2·5
Upper Heyford	67	55	52	Tr	–	*
Ross-on-Wye	72	51	45	–	–	1·6
Hartland Point	63	58	55	–	–	3·8
Bristol	71	53	43	–	–	3·7
Portland Bill	63	58	*	–	–	*
Plymouth	70	55	46	–	–	7·0
The Lizard	69	56	*	–	–	13·1
Scilly (St. Mary's)	66	57	*	–	0·1	12·4
Guernsey						
Pembroke	67	57	*	–	–	6·3
Holyhead	64	55	48	–	–	0·1
Chester (Sealand)		57	53	–	–	2·8
Manchester	66	56	51	Tr	–	0·5
Spurn Head	69	58	*	–	–	0·3
Catterick	74	56	54	–	–	7·0
Tynemouth	73	57	54	–	–	*
St. Abbs Head	68	57	*	–	–	*
Leuchars	72	54	52	Tr	1	4·1
Renfrew (Abbots I.)	67	55	49	0·2	0·1	1·5
Eskdalemuir	67	54	51	Tr	Tr	4·1
Point of Ayre	66	57	*	–	–	1·7
Tiree	60	56	*	Tr	–	0·0
Stornoway	60	55	*	0·1	Tr	0·1
Dalwhinnie	61	49	42	0·5	Tr	0·1
Aberdeen	69	57	52	Tr	1	1·7
Wick	64	56	*	Tr	Tr	*
Lerwick	57	54	*	1	1	0·0
Blacksod Point	63	59	*	Tr	–	*
Malin Head	63	54	*	Tr	–	0·3
Aldergrove	67	57	56	Tr	–	0·8
Birr Castle	68	51	47	–	–	0·3
Valentia Obsy.	65	51	47	–	Tr	11·8
Roches Point	69	55	*	–	–	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	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.
		24 hrs. ended 9h.											
Kew	18	ccmo	cmoc	cmocw	(66)	57	49	–	–	0·5	*	*	6
Croydon	217	cid,moc	cmo	cmo,wc	65	54	47	Tr	–	0·0	*	*	8
Greenwich (Royal Observatory)	149	c	c	dbcwbzo	66	56	48	–	–	0·4	75	70	*
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park)	27	*	*	*	67	57	54	–	–	0·4	81	78	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	66	56	52	–	–		64	73	*
Camden Square	110	c	c	*	66	57	51	–	–	*	*	74	*
Kensington	80	c	doc	*	67	56	50	–	–		75	70	*
Hampstead Observatory	450										*		*

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.
0·1	4-7h 31st	<0·1	15-23h 30th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 30th July Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 31st July 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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