M.O. Form 2373

THE DAILY WEATHER REPORT

BRITISH SECTION

1st July to 30th September

1939

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.	oh. or 1h G.M.T.

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

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

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

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

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

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

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

THE INTERNATIONAL AND UPPER AIR SECTIONS.

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

The International Section contains 4 pp. per day and is issued daily by 3.30 p.m., but the issues for Saturday and Sunday are made on Monday. The " International Section " contains information received from the Continent of Europe, the Mediterranean Basin, Iceland and the Azores, and from ships on the Atlantic, arranged as follows :—

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

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

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

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

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

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

THE BEAUFORT SCALE OF WIND FORCE

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

GALE WARNINGS

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

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

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

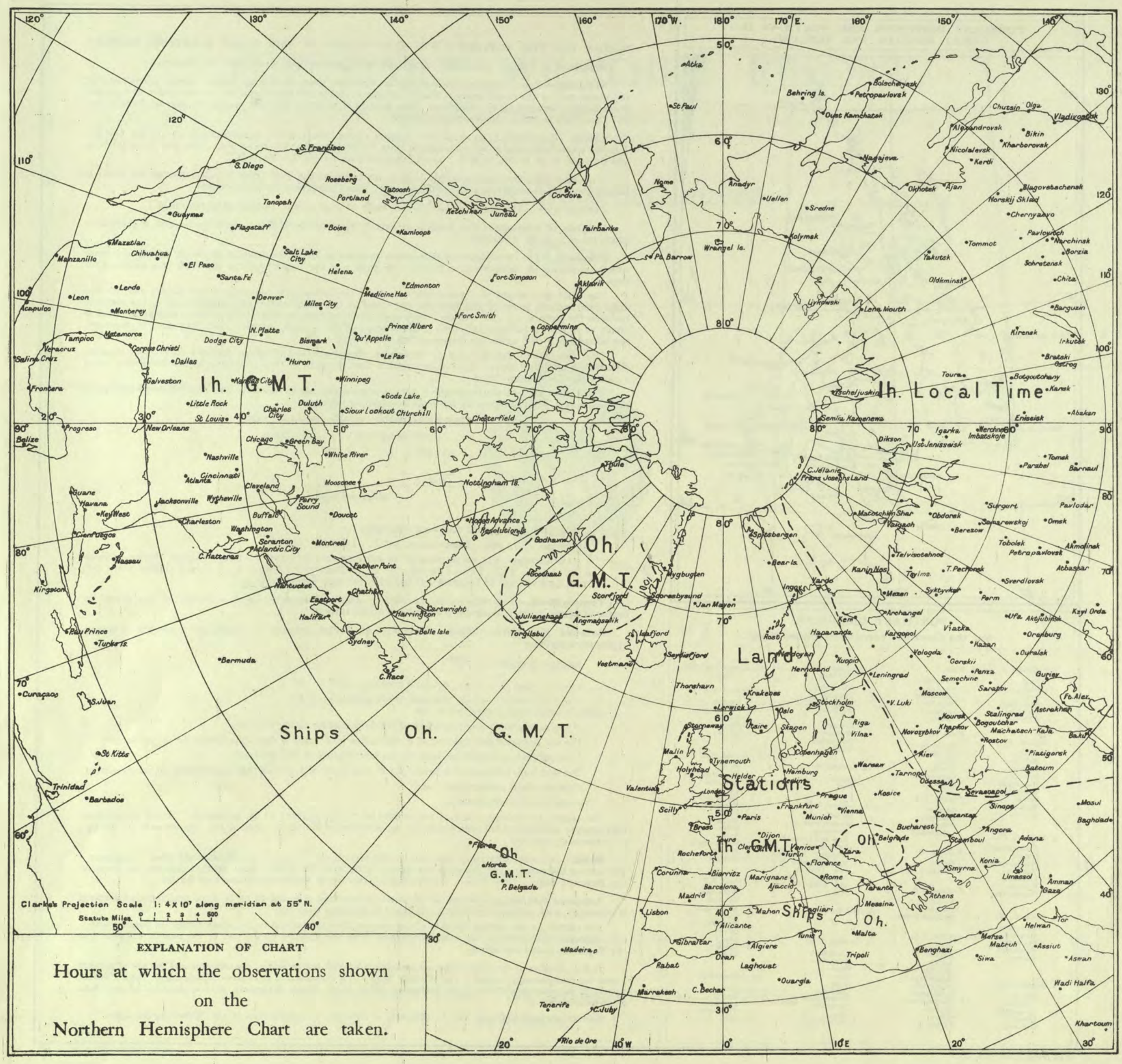
The *South Cone* (point downwards) is hoisted for gales commencing from a Southerly point. Such gales often veer, sometimes as far as Northwest.

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

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

▲ North Cone hoisted : ▼ South Cone hoisted :

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



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

FORECAST DISTRICTS
and the Counties comprised within them

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.
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.

Valentia.—The observations at 1h. G.M.T. are taken at the Post Office Wireless Station on Valentia Island, those at all other hours at the Observatory near Cahirciveen on the mainland.

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.

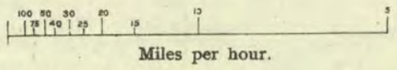
The scale below can be used to determine the theoretical wind as deduced from the pressure distribution on either chart. On the assumption that the path of the air is straight this theoretical wind is called the Geostrophic Wind.

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 between 0 and 19 : 25, between 20 and 29 ;.....and so on; 92, between 90 and 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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DUPLICATE

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT, AUGUST, 1939. No. 272

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Wet at first; fine and warm; frequent thunderstorms.

Frequent thunderstorms, associated with a series of shallow low pressure systems, was the outstanding feature of the weather of the British Isles during the first ten days of the month. On the 11th, however, a ridge of high pressure moving in from the Atlantic was the first indication of a fine spell which first made its influence felt in the South and soon afterwards spread to all districts. About a week of brilliant, unbroken sunshine and high temperatures persisted until the northward drift of a complex depression over France caused a renewal of thunderstorms in many parts on 20th. These proved severe locally and lightning was responsible for considerable loss of life in the London Area on Monday 21st. Pressure afterwards became more uniform for a time, but the approach of a further low pressure system on 25th caused a renewal of unsettled and thundery conditions which lasted until the end of the month.

Temperature was about normal for the first few days but during the fine spell much higher values were recorded, and readings between 75° - 80°F. were general, particularly in the South. Mildenhall and Croydon showing a maximum of 83°F. and 82°F. respectively on the 21st.

A notable feature of the early part of the month was the persistent thundery rains in some parts. Kew, for instance, measured 2.24 ins. of rainfall from 1st - 4th; floods were also widespread during this period.

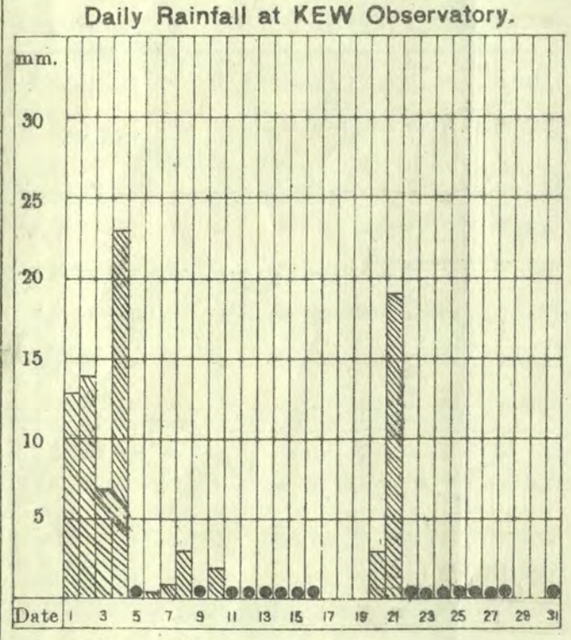
Except in East Anglia, where Lowestoft measured nearly twice the average, and locally in Southeast England, rainfall was deficient, markedly so in some places, less than half the average being recorded in Western Scotland, locally in East Scotland, and in Ireland. Slightly more than a third of the average was measured at Birr Castle and Valentia.

An absolute drought was recorded at Calshot and Birr Castle from 11th - 25th., Felixstowe from 11th - 27th and at Dovercourt from 11th until the end of the month. Notable heavy falls during the month were 2.60 inches at Tenby on 20th and 2.20 inches at Exmouth on the following day.

Sunshine was above average generally over Southern and Southwest England, Wales, Ireland, and parts of Western Scotland. Stornoway showed an excess of 76 hours for the month, and 15.2 hours were measured at Tiree and Stornoway on 5th.

In the latter half of the month persistent coastal fog, widespread at times, was experienced. Gales were reported at exposed places on 10th.

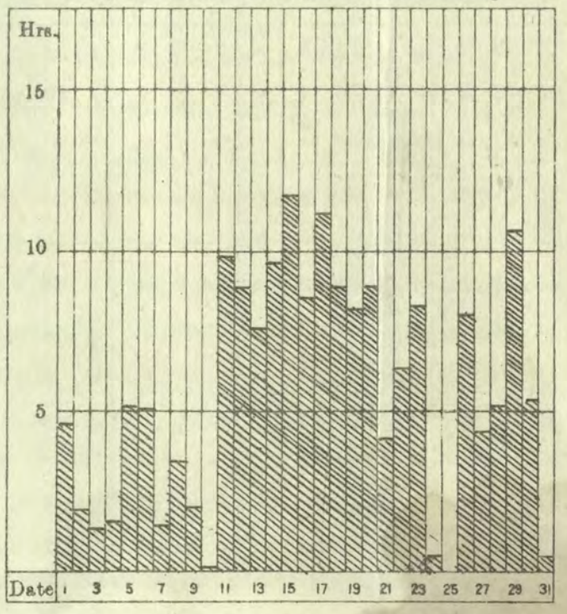
Daily Rainfall at KEW Observatory.



● = Less than 0·5 mm.

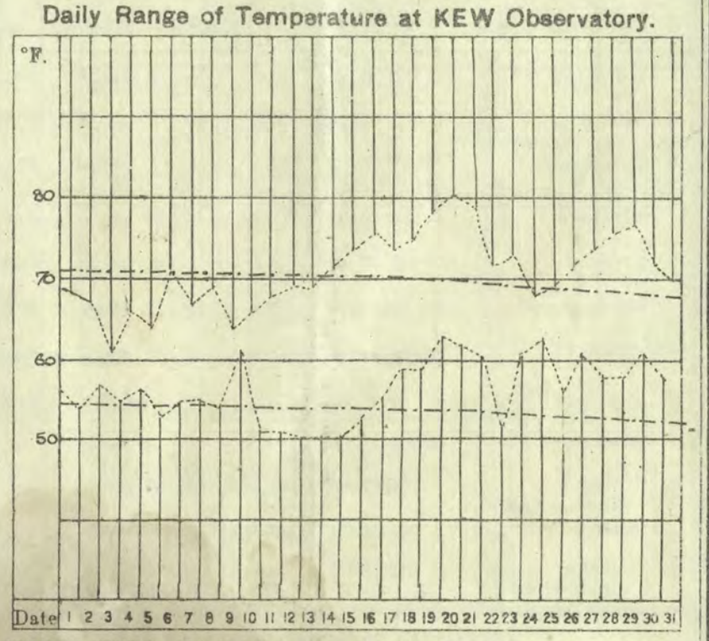
RAINFALL. Total for Month. 87 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 174 hrs.

Daily Range of Temperature at KEW Observatory.



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

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure Mean	Pressure Difference from average	Temperature Mean	Temperature Difference from average
	mb.	mb.	°F.	°F.
Kew	1016·6	+1·3	63·7	+1·0
Aberdeen	1016·4	+4·9	58·1	+1·4
Valentia	1016·3	+1·6	60·3	+1·5

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

WIND FREQUENCIES AT 7 hr.

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

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

	miles.
Kew ...	4687
Aberdeen ...	3080
Lerwick ...	8325
Valentia ...	7089

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.	Minimum. 33° - 41°	42° - 50°	51° - 59°	60° - 68°	Average Minimum.	Extremes—Warmest and Coldest. Days. Highest Max.	Date.	Lowest Max.	Date.	Nights. Highest Min.	Date.	Lowest Min.	Date.	Number of Ground Frosts.	LOW CLOUD. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	FOG, MIST and GOOD VISIBILITY. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
						°F.					°F.	°F.		°F.		°F		°F																					
1	London ... (Kew Obsy).	0	10	18	3	70.5	0	3	20	8	55.0	80	20	61	3	63	20, 25	50	13, 14, 15	0	6	17	0	2	26	0	0	25	3	0	1	4	2	4	0	0	0	0	25
	Croydon ...	0	7	20	4	70.1	0	6	18	7	54.0	82	21	60	3	63	20	47	15	0	13	6	2	2	25	4	1	21	6	0	0	1	6	6	0	0	0	0	18
	Calshot** ... (Southampton)	0	9	20	2	67.7	0	3	19	9	55.5	81	19	63	3	63	20, 21, 27	49	12	0	10	13	2	3	26	0	3	20	0	0	1	0	0	9	0	0	0	0	22
	Lympne ...	1	15	15	0	67.5	0	7	18	6	53.6	77	20	59	3	62	20	43	4	0	14	9	0	3	24	1	4	17	1	0	1	1	3	6	0	0	0	0	22
2	Shoeburyness ...	0	8	22	1	71.0	0	2	20	9	54.1	79	21	61	3	62	10, 20, 22, 24	49	14	0	8	12	0	2	26	0	2	20	1	0	0	0	4	9	0	0	0	0	24
	Gorleston ...	0	19	12	0	68.0	0	0	18	13	55.0	76	27	61	2, 3	65	21	51	6, 12, 24	0	6	15	0	0	28	0	0	23	0	1	2	2	0	6	0	0	0	0	13
	Cranwell ...	1	12	17	1	68.5	0	8	22	1	51.7	79	21	59	3	60	22	46	11	0	16	5	3	4	25	0	3	22	0	0	2	6	5	2	0	0	0	0	19
3	Birmingham ... (Edgbaston)	0	16	15	0	67.7	0	2	27	2	52.9	75	29	60	3	60	21, 29	48	13	0	10	10	0	3	27	0	1	27	0	0	1	5	6	6	0	0	0	1	22
4	Ross-on-Wye ...	0	11	20	0	68.5	0	7	23	1	52.6	76	15, 19, 29	63	4	60	21	42	13	0	9	14	0	3	28	0	0	26	0	0	1	5	8	14	0	0	0	0	23
5	The Lizard ...	0	24	7	0	*	0	0	26	5	*	76	19	61	7	62	27	51	13	*	3	26	0	2	25	0	2	27	0	0	1	2	0	27	0	0	2	0	28
7	Holyhead ...	1	25	5	0	63.0	0	0	28	3	55.1	72	26, 30	58	2	61	28	52	13	0	7	18	2	4	23	0	4	19	4	0	0	1	0	24	0	0	0	0	25
8	Chester ... (Sealand)	0	13	15	3	67.1	0	8	21	2	51.9	79	17, 29	62	3	60	23, 29	45	17	0	7	19	1	1	29	0	1	27	0	0	0	4	8	7	0	0	0	0	18
10	Tynemouth ...	4	25	2	0	63.8	0	1	30	0	53.1	72	16	57	5	58	16, 20, 21, 25, 26, 27, 30	50	11	0	0	31	0	0	31	0	0	31	0	0	0	7	1	5	0	0	4	0	12
11	Leuchars ...	0	24	7	0	64.5	0	10	21	0	49.4	75	18	61	2, 4, 26	59	27	43	7	0	13	16	1	7	22	0	8	20	2	0	0	2	2	19	0	0	0	1	21
12	Renfrew ...	0	19	12	0	64.3	1	11	19	0	50.0	73	18, 23, 24	61	10	59	21, 26, 27, 29	41	13	0	5	25	0	0	30	0	1	29	0	0	0	1	6	12	0	0	0	0	22
	Eskdalemuir ...	2	19	10	0	62.1	2	13	16	0	47.5	73	18	58	2	57	28	36	13	0	20	9	0	5	25	0	7	21	0	0	0	2	0	14	0	0	0	0	28
13B	Stornoway	3	28	0	0	60.3	0	7	24	0	50.0	68	27	58	13	58	25, 27	47	3	*	1	28	0	1	28	0	1	28	0	0	0	0	0	26	0	0	0	0	26
15	Aberdeen ..	2	28	1	0	62.8	0	8	23	0	50.7	71	18	56	7	59	15, 25	45	5, 17	0	10	17	0	9	19	1	12	15	0	0	0	6	1	13	0	0	1	1	18
18	Aldergrove ...	0	16	15	0	*	1	10	20	0	*	75	14	60	9, 21	59	14, 31	40	23	0	8	18	2	3	25	2	2	21	2	0	0	1	1	21	0	0	0	0	27
19	Dublin ... (Phœnix Park)	1	17	13	0	66.5	1	13	16	1	50.1	75	13	58	2	61	28	40	6	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birr Castle ...	1	16	14	0	65.1	1	15	12	3	51.3	77	28	57	2	62	29	4	5	0	0	29	0	5	25	0	2	27	0	0	0	4	0	27	0	0	0	0	31
20	Valentia ... (Cahirciveen)	1	22	8	0	63.1	0	7	18	6	54.5	76	29	59	2	65	29, 30	44	23	0	4	25	1	4	27	0	4	27	0	0	0	0	0	29	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.	Mean. °F.	No. of Reports.
950	1830	57.3	57.8	49	55.3	48		
850	4850	46.7	47.7	49	47.5	48		
750	8200	37.6	37.9	49	38.2	48		
650	11940	26.7	27.7	49	27.4	48		
550	16200	12.1	14.1	49	13.7	48		

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.	137	75	56	0	0	0	92	55	32	2	0	0	74	42	23	0	0	0	104	62	40	2	0	0	500 above ground.
1000 above M.S.L.	114	66	42	2	0	0	75	43	28	3	0	0	63	40	19	1	0	0	75	41	30	4	0	0	1000 above M.S.L.
2000 " "	74	43	28	1	0	0	42	25	14	0	0	0	34	26	5	1	0	0	38	17	19	1	1	0	2000 " "
3000 " "	53	31	17	0	0	0	23	18	5	0	0	0	22	13	8	0	0	0	14	9	4	1	0	0	3000 " "
4000 " "	29	16	13	0	0	0	15	12	3	0	0	0	14	8	6	0	0	0	5	4	1	0	0	0	4000 " "

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

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

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

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

SUNSHINE, RAINFALL, AND HUMIDITY August 1939.

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).	1	8	8	9	5	11·8	15	1539	+70	174	-9	1880	262	'99	100	'12	18	5	3	3	2	0	23	4	658	+52	87	+30	1856	165	'78	11	'99	6	0
	Croydon ...	1	10	5	9	6	12·6	15	1512	-13	177	-16	1922	260	'23	136	'31	17	5	6	2	0	1	34	4	788	+109	67	+8	1921	106	'31	20	'33	6	0
	Calshot** ... (Southampton)	0	9	4	7	11	13·0	15	1691	-55	215	+15	1881	294	'99	100	'12	20	6	2	2	1	0	22	2	683	+37	49	-2	1871	174	'78	6	'36	3	0
	Lympne ...	1	7	3	8	12	12·4	14	1807	+42	222	+9	1921	283	'33	167	'25	18	6	3	3	1	0	19	4	739	+15	56	-3	1920	127	'35	19	'32 '33	2	0
2	Shoeburyness ...	3	5	7	6	10	13·1	15	1701	-15	189	-22	1919	263	'33	167	'36	20	3	4	3	1	0	18	4	538	+35	46	+1	1920	89	'31	10	'33	6	0
	Gorleston ...	1	5	9	7	9	13·2	15	1651	+8	202	+5	1908	249	'23	116	'12	23	1	3	2	1	1	33	24	654	+32	80	+17	1871	208	'12	7	'37	5	0
	Cranwell ...	3	8	6	11	3	11·4	17	1451	-87	152	-33	1921	225	'33	159	'25	17	3	3	7	1	0	20	5	680	+90	77	+8	1917	99	'17	11	'37	5	0
3	Birmingham ... (Edgbaston)	1	12	6	7	5	10·7	11	1267	-37	142	-21	1887	247	'99	85	'36	16	4	7	3	1	0	22	29	827	+153	67	-2	1893	173	'12	20	'33	4	0
4	Ross-on-Wye ...	0	14	2	7	8	12·7	16	1432	-53	169	-3	1915	244	'33	107	'22	15	5	7	4	0	0	12	31	761	+44	50	-15	1859	202	'78	4	'36	3	0
5	Falmouth ... (Observatory)	2	6	6	6	11	13·8	14	1697	-13	205	+9	1881	297	'99	104	'12	19	4	5	3	0	0	13	25	1150	+43	42	-41	1871	267	'12	12	'36 '37	2	0
7	Holyhead ...	2	5	9	6	9	13·7	17	1619	+69	191	+20	1914	212	'14	139	'20 '21	20	3	5	2	1	0	17	2	1051	+164	51	-30	1871	227	'17	18	'99	4	0
8	Chester ... (Sealand)	0	12	7	4	8	12·5	18	1444	+68	172	+13	1923	155	'26	125	'24	21	1	7	2	0	0	11	2	801	+140	36	-37	1922	150	'31	27	'32	2	0
10	Tynemouth ...	5	11	4	7	4	10·9	17	1394	*	130	*	1935	*	*	*	*	17	5	5	3	1	0	16	21	678	+57	62	-8	1915	138	'17	24	'18	4	0
11	Leuchars ...	7	6	10	4	4	13·2	17	1406	-64	129	-26	1922	202	'33	102	'24	16	8	4	2	1	0	17	26	748	+95	51	-29	1922	192	'30	9	'32	3	0
12	Renfrew ...	3	13	7	6	2	12·9	6	1214	+21	119	-10	1921	165	'26	93	'32	19	5	5	2	0	0	15	19	1177	+238	37	-55	1921	149	'29	28	'32	1	0
	Eskdalemuir ...	3	13	6	7	2	12·7	17	1139	-62	121	0	1910	197	'11	44	'12	18	1	8	4	0	0	14	9	1810	+381	59	-72	1910	262	'23	46	'31	4	0
13B	Stornoway	1	11	5	3	11	15·2	5	1255	+40	204	+76	1881	262	'99	83	'35	16	6	3	6	0	0	12	20	1286	+20	64	-37	1870	217	'03	18	'80	1	0
15	Aberdeen ...	5	10	9	1	6	12·4	4	1301	-28	127	-13	1881	199	'38	67	'12	21	5	3	2	0	0	13	9	784	+36	33	-37	1871	176	'77	19	'99	0	0
18	Aldergrove ...	2	12	6	5	6	13·5	4 5	1320	*	148	*	1927	182	'31	103	'34	17	3	6	5	0	0	14	20	1002	+164	65	-26	1926	155	'29	36	'35	2	0
19	Dublin ... (Phœnix Park)	3	10	9	5	4	12·8	16	1347	-90	139	-15	1881	252	'99	67	'12	17	7	4	1	2	0	21	20	769	+67	58	-22	1865	185	'17	19	'13 '33	0	0
	Birr Castle ...	2	11	6	4	8	12·7	4	1300	-6	160	+23	1881	256	'99	76	'94	21	6	2	1	1	0	18	2	954	+127	37	-60	1862	229	'17	30	'09	0	0
20	Valentia ... (Cahirciveen)	3	9	2	7	10	13·0	22	1464	+96	200	+52	1880	276	'99	87	'94	18	6	3	2	1	0	16	9	1472	+58	49	-73	1866	220	'28	20	'09	0	0

MINIMUM SURFACE HUMIDITY.

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

Stations.	95 to 100 %	90 to 94 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	0 to 19 %
London (Kew)	0	0	1	2	11	8	9	0	0	0
Ross-on-Wye ...	0	0	2	8	8	8	5	0	0	0
Falmouth (Obsy.)	1	8	9	2	7	4	0	0	0	0
Renfrew ...	0	0	1	9	12	9	0	0	0	0
Eskdalemuir ...	0	0	3	5	12	10	0	0	1	0
Aberdeen ...	1	2	7	6	8	5	2	0	0	0
Valentia ...	0	0	2	13	12	4	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)	17	14	0	0	0	0	0	0	0	0
Ross-on-Wye	13	18	0	0	0	0	0	0	0	0
Renfrew ...	22	9	0	0	0	0	0	0	0	0
Eskdalemuir	8	23	0	0	0	0	0	0	0	0
Aberdeen ...	22	9	0	0	0	0	0	0	0	0
Valentia ...	19	12	0	0	0	0	0	0	0	0

CODE for State of Ground.

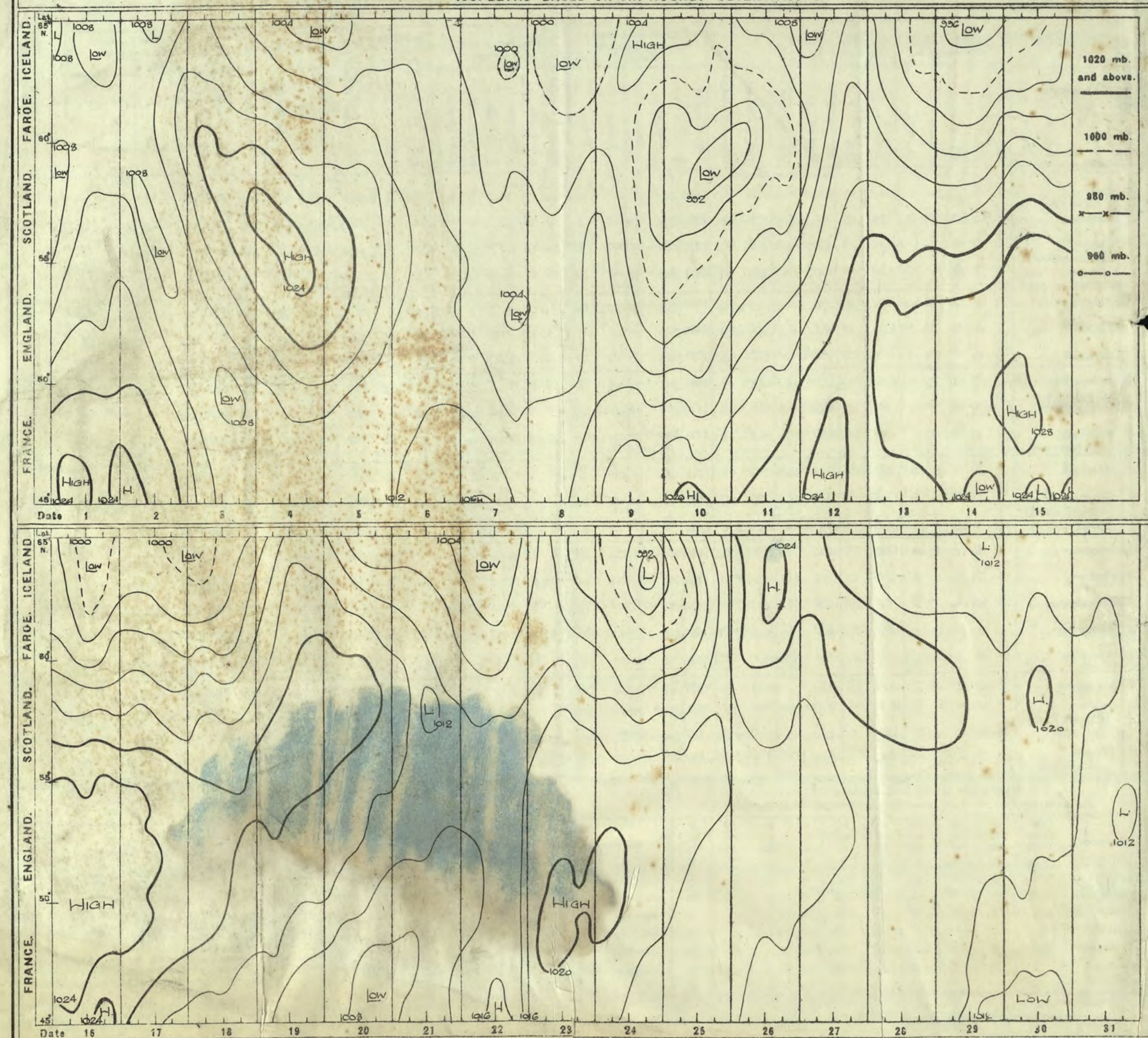
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry.
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow, greater than 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 ..... August ..... 1939.

ISOPLETHS BASED ON SIX-HOURLY OBSERVATIONS.



* The diagram is obtained by drawing a line from Akureyri in Iceland to the south of France near Marseille. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at 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.

0.631/3750. Wt. 8038. D.4605. G.948. 1030. 9/39

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 1st August, 1939.
No. 28376

OBSERVATIONS at 13h. G.M.T. 31st July.

District	Stations (For heights see p. 4.)	(1) Barom. at M.S.L. mb.	(2) Change in 3 hours	(3) Wind Direc.	(4) Wind Force 0–12	(5) Weather	(6) Temp. °F.	(7) % Humid.	(8) Visibility 0–9	(9) Cloud Form Low	(10) Cloud Form Med.	(11) Cloud Form High	(12) Amount Low 0–10	(13) Amount Total 0–10	(14) Height of Base (feet)
1	London (Kew)...	1011·6	+4	WSW	3	c/pr	63	75	8	9	3	3	4-6	7-8	2500
	Croydon ...	1011·6	+2	SW	4	c	68	65	8	9	6	9	7-8	9	4000
	S. Farnborough	1012·1	+8	SW	5	pr	61	85	8	8	3	-	7-8	7-8	2500
	Boscombe Down	1012·6	+12	W'S	4	c/pr	58	85	9	9	6	3	4-6	7-8	2500
	Calshot (Soton.)	1013·0	+8	SW'S	5	bc	66	75	8	2	3	-	2-3	4-6	1500
	Lympne ...	1013·8	+6	SW	5	bc	64	75	8	8	4	-	4-6	4-6	2500
	Manston ...	1012·6	+6	SW	6	c	69	55	8	8	6	-	4-6	7-8	1500
2	Shoeburyness ...	1011·7	0	SW'S	4	c/pr	67	75	8	8	6	-	4-6	7-8	2500
	Felixstowe ...	1011·0	+2	SW	5	c	70	55	8	8	-	-	9	9	1500
	Gorleston ...	1009·3	-2	SW'S	5	c	67	55	7	7	-	-	7-8	7-8	2500
	Mildenhall ...	1009·1	-2	SSW	5	bc	66	75	8	8	-	3	4-6	4-6	2500
	Cranwell ...	1007·4	+2	SW	4	c/+lr$_o$	60	85	6	3	3	3	7-8	7-8	1500
3	Birmingham ...	1008·6	+4	WSW	4	c	64	55	8	8	-	-	7-8	7-8	1500
	Upper Heyford	1010·5	+4	WSW	5	pr	63	65	7	9	7	-	9	9+	1500
4	Ross-on-Wye ...	1010·2	+8	W'S	5	bcq	65	65	9	2	6	-	4-6	4-6	4000
5	Hartland Point	1013·0	+16	W	5	c	61	85	8	8	4	-	4-6	7-8	1500
	Bristol ...	1012·2	+14	W	5	bc	64	65	8	8	3	-	4-6	4-6	2500
	Portland Bill ...	1014·0	+14	WSW	5	c	60	85	8	2	4	-	7-8	9	4000
	Plymouth ...	1014·3	+10	WSW	4	c/pr	61	85	8	8	3	-	7-8	9+	2500
	The Lizard ...	1016·0	+14	WSW	4	bc	63	85	8	8	7	-	4-6	4-6	2500
	Scilly (St. Mary's)	1015·5	+10	W	5	c	63	85	8	8	6	3	4-6	7-8	2500
	Guernsey ..	1016·9	+18	W'S	5	c	62	85	8	7	3	-	4-6	9	1500
6	Pembroke ...	1011·8	+8	W'N	6	bcq	60	85	8	2	7	3	2-3	4-6	2500
7	Holyhead ...	1007·2	+14	SW'W	5	c	62	75	8	8	4	6	2-3	7-8	4000
	Chester (Sealand)	1007·7	+16	WSW	4	pr	61	75	6	8	7	-	9	9+	1500
8	Manchester ...	1006·5	+10	WSW	5	c	61	65	7	8	-	-	9+	9+	2500
10	Spurn Head ...	1005·7	+2	SW'W	4	c	71	55	7	8	8	3	4-6	7-8	1500
	Catterick ...	1003·6	+2	SW'W	5	c/pr	61	65	8	2	9	-	7-8	9	1500
	Tynemouth ...	1002·2	+4	SW	4	c/pr	63	65	6	8	-	-	9+	9+	1500
11	St. Abbs Head...	1000·7	+4	SW	4	c	59	85	9	8	3	-	4-6	7-8	1500
	Leuchars ...	1000·3	+2	E	3	c	66	65	8	8	6	6	7-8	7-8	1500
12	Renfrew (AbbotsI.)	1001·5	+6	NW	4	c	66	75	9	8	6	3	4-6	7-8	2500
	Eskdalemuir ...	1001·1	+4	W'S	3	pr	59	75	8	9	-	2	9	9	1500
	Point of Ayre ...	1003·6	+18	WNW	4	c/pr	63	92	8	8	6	-	4-6	7-8	2500
13A	Tiree ...	1004·4	+8	NW	4	c	59	85	8	5	7	-	4-6	7-8	2500
13B	Stornoway ...	1003·3	+8	NNE	1	c	57	85	8	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1002·2	+16	W	1	ir	55	85	6	6	6	-	7-8	10	2500
	Aberdeen ...	1001·1	+12	W'N	2	r/+lr	59	85	6	9	-	-	9+	9+	1500
	Wick ...	1000·7	+6	NNE	3	c	57	92	8	8	7	-	7-8	9+	1500
16	Lerwick...	1000·5	-6	NNE	2	c	56	97	8	8	7	-	7-8	9+	800
17	Blacksod Point...	1009·4	+14	WNW	4	c	60	75	8	5	-	-	7-8	7-8	800
18	Malin Head ...	1005·4	+24	WNW	3	pr	57	92	7	9	-	-	7-8	7-8	1500
	Aldergrove ...	1005·1	+40	WNW	4	c/pr	60	85	8	8	-	-	9+	9+	1500
19	Birr Castle ...	1009·6	+18	WNW	4	c/pr	61	75	8	3	7	-	4-6	9	800
20	Valentia Obsy.†	1014·7	+18	W'N	4	c	60	75	8	8	7	1	4-6	9	1500
	Roches Point ...	1012·4	+14	NW	4	bc	63	75	9	3	-	3	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 31st July.

Stations	(15) Barom. at M.S.L. mb.	(16) Change in 3 hours	(17) Wind Direc.	(18) Wind Force 0–12	(19) Weather	(20) Temp. °F.	(21) % Humid.	(22) Visibility 0–9	(23) Cloud Form Low	(24) Cloud Form Med.	(25) Cloud Form High	(26) Amount Low 0–10	(27) Amount Total 0–10	(28) Height of Base (feet)	(29) State of Ground 0–9	(30) Sea 0–9
London (Kew)	1013·2	+10	SW'W	4	c	66	55	8	8	-	4	4-6	7-8	2500	1	*
Croydon	1013·5	+2	SW'S	3	c/pr	61	85	8	9	6	3	7-8	9+	4000	1	*
S. Farnborough	1013·8	+10	WSW	4	bc	63	65	8	7	3	6	1	4-6	4000	1	*
Boscombe Down	1014·4	+10	W'S	4	c/pr	61	75	8	8	4	6	4-6	7-8	4000	1	*
Calshot (Soton.)	1014·7	+10	SW'W	5	c	62	85	7	2	3	1	2-3	7-8	1500	1	3
Lympne	1014·9	+12	WSW	5	bc	63	65	8	2	6	-	4-6	4-6	1500	0	§3
Manston	1014·1	+12	SW'W	4	c/pr	61	65	8	8	6	1	4-6	7-8	1500	1	*
Shoeburyness	1013·5	+14	SW'S	4	pr	61	85	8	8	-	-	9	9	2500	1	*
Felixstowe	1012·3	+6	SW	5	c	64	75	8	8	-	-	7-8	7-8	1500	0	3
Gorleston	1010·8	+12	SSW	3	c/+lr$_o$	65	55	7	6	3	-	4-6	7-8	2500	1	3
Mildenhall	1010·8	+8	WSW	4	c	61	85	8	8	-	-	7-8	7-8	2500	1	*
Cranwell	1009·3	+14	W'S	4	bc	64	55	8	8	7	8	4-6	4-6	2500	1	*
Birmingham	1011·0	+14	WSW	4	bc	66	55	8	8	6	1	4-6	4-6	2500	1	*
Upper Heyford	1012·5	+12	W'S	4	c	62	75	8	9	6	5	4-6	7-8	1500	1	*
Ross-on-Wye	1012·8	+12	W'S	5	cq	61	75	8	9	7	-	9	9+	2500	1	*
Hartland Point	1015·0	+10	WNW	6	bc	60	85	8	8	4	1	4-6	4-6	1500	0	4
Bristol	1014·4	+12	W'S	4	bc	61	75	8	8	7	8	4-6	4-6	2500	1	*
Portland Bill	1016·2	+18	WSW	5	c	59	85	8	5	4	-	7-8	10	4000	1	4
Plymouth	1016·7	+14	WSW	4	c	61	75	8	8	3	-	4-6	9+	2500	1	3
The Lizard	1017·5	+6	WSW	4	c	59	92	8	8	6	-	7-8	7-8	2500	0	2
Scilly (St. Mary's)	1017·4	+10	W	5	bc	61	92	8	8	3	3	2-3	4-6	2500	0	3
Guernsey	1018·5	+8	WSW	5	bc	60	85	8	7	7	-	2-3	4-6	1500	0	3
Pembroke	1013·9	+12	W	6	bc	60	85	7	8	7	3	1	4-6	2500	1	3
Holyhead	1010·2	+14	SW'W	4	c	61	75	9	8	3	-	4-6	9	4000	1	2
Chester (Sealand)	1009·9	+14	W'S	5	c	64	55	8	8	7	-	7-8	7-8	2500	1	*
Manchester	1009·0	+16	WSW	5	c	61	75	7	8	-	-	10	10	1500	1	*
Spurn Head	1006·2	+12	W'S	5	c/pr	64	65	8	6	9	-	4-6	9	800	1	4
Catterick	1005·5	+18	W	3	c/pr	61	75	8	3	6	-	7-8	9	1500	1	*
Tynemouth	1003·0	+8	W	4	c	63	75	6	2	-	1	7-8	7-8	1500	1	1
St. Abbs Head	1003·4	+10	NW	3	c	57	92	8	8	6	-	4-6	7-8	1500	0	2
Leuchars	1003·0	+10	W	1	c/r	61	75	8	8	2	-	7-8	9+	1500	1	*
Renfrew (AbbotsI.)	1005·3	+24	NW'W	4	bc	62	75	8	8	6	-	4-6	4-6	2500	1	*
Eskdalemuir	1004·3	+20	WNW	3	bc/pr	58	75	8	9	-	3	4-6	4-6	1500	1	*
Point of Ayre	1008·2	+24	NW'W	4	c/r	57	97	8	8	-	-	9+	9+	1500	1	2
Tiree	1007·2	+16	WNW	4	c	58	85	8	8	-	-	7-8	7-8	2500	0	3
Stornoway	1005·2	+6	NNW	3	c	60	75	8	5	7	7	4-6	10	2500	1	1
Dalwhinnie	*	+14	W	1	c	54	85	7	6	6	-	4-6	10	2500	1	*
Aberdeen	1002·8	+12	NW	3	c/r	57	85	6	9	7	-	2-3	9+	1500	1	1
Wick	1002·8	+12	NW	3	ir$_o$	56	92	7	8	7	-	7-8	10	800	1	1
Lerwick	1000·9	+4	NW'W	2	c	55	97	8	8	7	-	7-8	9+	800	1	*
Blacksod Point	1013·0	+12	WNW	3	c	58	85	8	-	7	-	0	7-8	-	0	2
Malin Head	1009·0	+18	W'N	4	c/jp	58	85	7	9	-	-	9	9	1500	1	3
Aldergrove	1009·4	+26	WNW	2	c	58	85	9	8	-	-	9+	9+	2500	1	*
Birr Castle	1013·2	+16	WNW	4	c	61	75	8	3	7	8	2-3	7-8	800	1	*
Valentia Obsy.†	1016·0	+6	W'S	2	c	58	85	8	6	2	-	7-8	10	1500	1	3
Roches Point	1015·2	+12	NW	3	ir$_o$	60	85	8	6	2	-	7-8	9+	1500	1	2

PAST 24 HOURS.

Stations	Weather (37) 7h.—13h. 31st	(38) 13h.—18h. 31st	(39) 18h. 31st to 1h. 1st	(40) 1h.—7h. 1st
London (Kew)	ccprc	cqtlprh	bcybc	c
Croydon	cpr$_o$prc	cPRq	cbw	bwc
S. Farnborough	cpr$_o$pR	pr$_o$PRbc	bcc	c,r$_o$
Boscombe Down	cwbc	cpr$_o$c	cbcc	ccir$_o$cr$_o$c
Calshot (Soton.)	cbc	bcpr$_o$	bbc	bcpr$_o$c
Lympne	cprpr$_o$bc	bcc	bccpr$_o$w	bcwcir$_o$
Manston	cpr$_o$qy	bcycpr$_o$	cpr$_o$bc	bccw
Shoeburyness	bcco,p	cPRq	p$_o$bc	bcc
Felixstowe	bccy	cpr$_o$c	cbc	bcbcm$_o$
Gorleston	bccy	cpr$_o$tl	cbc	cbc
Mildenhall	bccpr$_o$bc	cpRtc	bc	bccbcm$_o$
Cranwell	ctlr$_o$c	cbcy	bcpr$_o$	bcm$_o$
Birmingham	cpr$_o$bc	cbc	bc	bc
Upper Heyford	cpr$_o$	ccpr$_o$bcc	c	c
Ross-on-Wye	ccp$_o$cbc	cqbcqcq	p$_o$cbpbc	bccbc
Hartland Point	c	cbc	bcc	crir$_o$
Bristol	bcPRbc	bc	bc	bccp$_o$pr
Portland Bill	c	c	c	c
Plymouth	pr$_o$pr$_o$	c	cbccpr$_o$	cir$_o$c
The Lizard	cbc	bcprc	cpr$_o$c	cmprc
Scilly (St. Mary's)	cbcc	cp$_o$cbc	cp$_o$odd	crddc
Guernsey	bccpr	cbc	bccdzc	cir
Pembroke	cqbc	bccbc	c	cbcc
Holyhead	cir$_o$bc	bcpr$_o$c	c	cbc
Chester (Sealand)	bccpr$_o$m	cpr$_o$mpr$_o$	cypr$_o$bc	bcc
Manchester	ccpr$_o$	cPRcy	cpr$_o$prbc	cprc
Spurn Head	cpr$_o$t	ptlrq	cpr$_o$q	bcc
Catterick	bccpr$_o$	ccpr$_o$c	cbc	bcc
Tynemouth	cp$_o$	cp+lc	cbc	bc
St. Abbs Head	bcprc	prc	PRc	bc
Leuchars	cbc	bcctlrcprc	cr$_o$irr$_o$c	cbc
Renfrew (AbbotsI.)	pr$_o$PRcbc	bccpr$_o$bc	bccbc	bcc
Eskdalemuir	cr$_o$r$_o$pr$_o$	cpr$_o$pr	bcpr$_o$cbc	bcprbc
Point of Ayre	cpr	crr	c	c
Tiree	c	c	c	c
Stornoway	c	c	c	cpr
Dalwhinnie	cir	cir		cir
Aberdeen	ctlpr	crrz$_o$	cz$_o$	ez$_o$c
Wick	FFc	d$_o$ir$_o$	cir$_o$c	c
Lerwick	odffe	cir	c	cir
Blacksod Point	bc	c	pr$_o$c	iD
Malin Head	cbcprc	cpr$_o$dc	cbcc	cid$_o$c
Aldergrove	r$_o$r$_o$irpr$_o$	PRpr	cpr$_o$bcc	c,pr$_o$od$_o$
Birr Castle	cpr	cprc	c	cid
Valentia Obsy.†	c	cpr$_o$c	ir$_o$ id$_o$prc	cpr$_o$c
Roches Point	cp$_o$bc	ccir$_o$	circ	cprc

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.

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.*

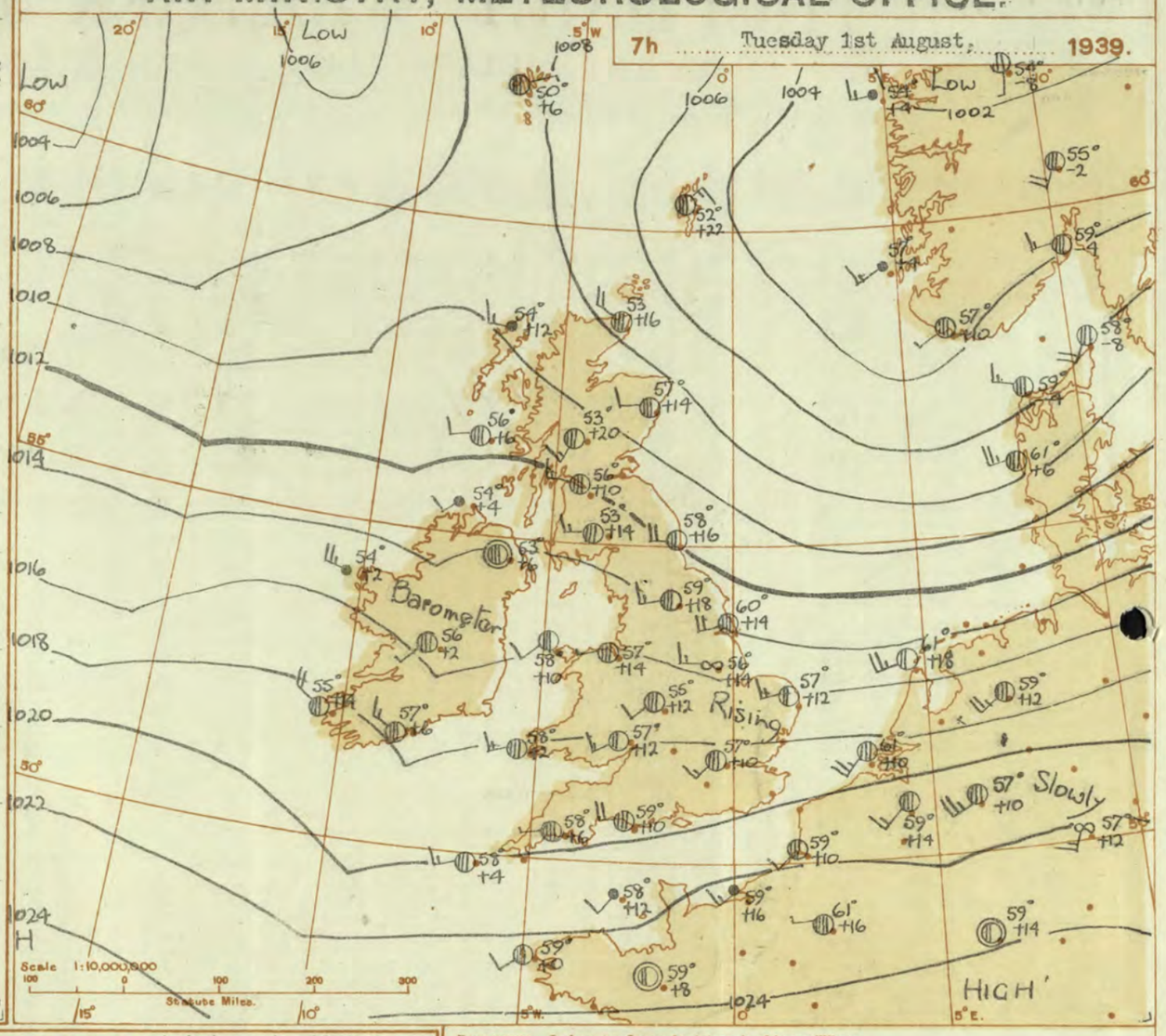
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 31st July 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F) Min. 30/6 9h. to 31/7 9h.	Temperature (°F) Max. 9h.—17h. 31/7	Rainfall (mm.) Night 29/7 17h. to 31/7 9h.	Rainfall (mm.) Day. 9h.—17h. 31/7	Sunshine (Hrs.) Sunrise to 17h. 31/7	Sunshine (Hrs.) Sunrise to Sunset. 30/7
1	Tunbridge W.	cpcbc	bccbc	55	68	–	Trace	9·9	6·6
	Bournemouth	cbcb	bbc	56	68	–	–	7·7	4·2
	Ventnor ...	cbbc	bc	58	63	–	–	9·1	3·9
	Southsea ...	b	b	58	68	–	–	10·3	5·6
	Bognor Regis	bc	bbc	59	64	Trace	–	10·5	4·0
	Littlehampton	bc	bc	59	65	–	–	10·7	5·0
	Worthing ...	bcbbc	b	58	67	0·5	–	9·8	4·8
	Brighton ...	cbc	bcb	59	65	1	–	11·8	4·2
	Eastbourne†...	cbcb	b	59	66	–	–	9·7	5·4
	Hastings† ...	bcc	bc	58	67	0·3	–	9·7	6·2
	Folkestone ...	cbc	bc	56	67	1	–	9·2	8·3
	Dover ...	cpbc	bc	59	67	0·5	–	10·2	8·1
	Deal	bcdc	b	56	68	0·3	Trace	10·4	11·0
	Ramsgate ...	bcop	bc	57	66	1	Trace	10·0	9·9
	Margate ...	bcp	bc	56	70	1	Trace	10·3	11·7
2	Southend ...	bcc	corc	57	72	–	1	7·1	8·2
	Clacton-on-Sea	bcc	ctlrc	58	69	–	8	7·3	8·9
	Dovercourt ...	bc	bc	57	69	–	–	7·9	6·0
	Lowestoft ...	b	bbccr	57	71	–	0·2	8·3	10·2
	Skegness ...	bc	tlrbc	52	69	–	2	7·9	7·8
	Mablethorpe...	bc	bcpcy	51	70	–	0·3	7·3	7·5
	Cleethorpes ...	bc	rbcv	53	69	Trace	Trace	7·9	6·8
3	Leamington S.	ocbc	pcbc	53	68	–	0·4	6·0	5·2
4	Cheltenham†	corc	crbcc	55	66	–	1	5·1	8·8
5	Bath	pcpb	bbc	56	67	Trace	Trace	9·9	5·3
	Weymouth ...	bccb	bc	57	66	–	–	3·9	8·0
	Jersey ...	cbc	bcc	59	66	–	–	9·3	3·1
	Torquay ...	bccdp	pbcc	56	67	–	0·4	4·7	7·5
	Falmouth ...	b	corqc	55	66	Trace	Trace	2·9	12·7
	Penzance ...	cbc	bccb	55	66	2	–	7·2	8·3
	St. Ives ...	c	c	55	65	1	–	5·6	11·9
	Bude... ...	rc	cbc	57	63	5	–	1·6	12·6
	Ilfracombe ...	pcbcc	cbc	59	66	0·1	–	4·3	9·6
6	Aberystwyth	prcbc	bcor	56	62	2	1	3·3	8·9
7	Llandudno ...	c	cucp	56	64	0·6	0·3	2·8	8·3
	Colwyn Bay...	cbc	cbcpc	57	64	0·3	0·3	1·2	6·7
	Rhyl	bcc	crbc	56	65	0·1	Trace	1·8	8·7
8	Wallasey ...	bccp	pc	56	63	2	0·5	2·3	8·7
	Southport ...	cpcq	pcq	55	64	6	0·1	0·8	7·8
	Blackpool ...	cp	cpc	56	62	3	Trace	0·4	8·7
	Morecambe ...	cp	bcpc	56	63	6	Trace	3·0	8·2
9	Ilkley... ...	prcbc	orcbc	55	63	0·6	4	3·3	9·1
	Harrogate ...	cbcp	cbcp	52	61	0·4	3	3·8	9·9
10	Berwick-on-T.	bccr	cthr	55	65	3	0·3	4·4	10·4
11	Dunbar ...	cpr	cpr	54	65	0·5	2	4·6	6·8
12	Troon... ...	bcbbc	bcpc	55	62	1	Trace	7·2	3·8
	Douglas ...	b	cp	54	61	1	1	3·4	7·9

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



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 August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Wind southwest to west, light to moderate; fair periods; some light occasional showers; temperature rather below average.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind southwest to west, moderate; cloudy; some rain or drizzle, but often slight inland; fairer periods; temperature rather below average.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind westerly, moderate; bright periods at first; cloud increasing with light local rain later today; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind mainly southwest to west, light to moderate; cloudy; occasional rain or drizzle; rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind westerly, fresh at times on the west coast; cloudy; occasional rain or drizzle, mainly slight in the South; bright periods with local showers tomorrow; average temperature.

GENERAL INFERENCE.

Pressure is low in a belt to northward of the British Isles and high from Central Europe to the Azores. Feeble secondary troughs of low pressure will cross the country with some rain or drizzle in most districts, but the amounts will be often mainly slight. Fairer periods will predominate in the East and South.

FURTHER OUTLOOK.

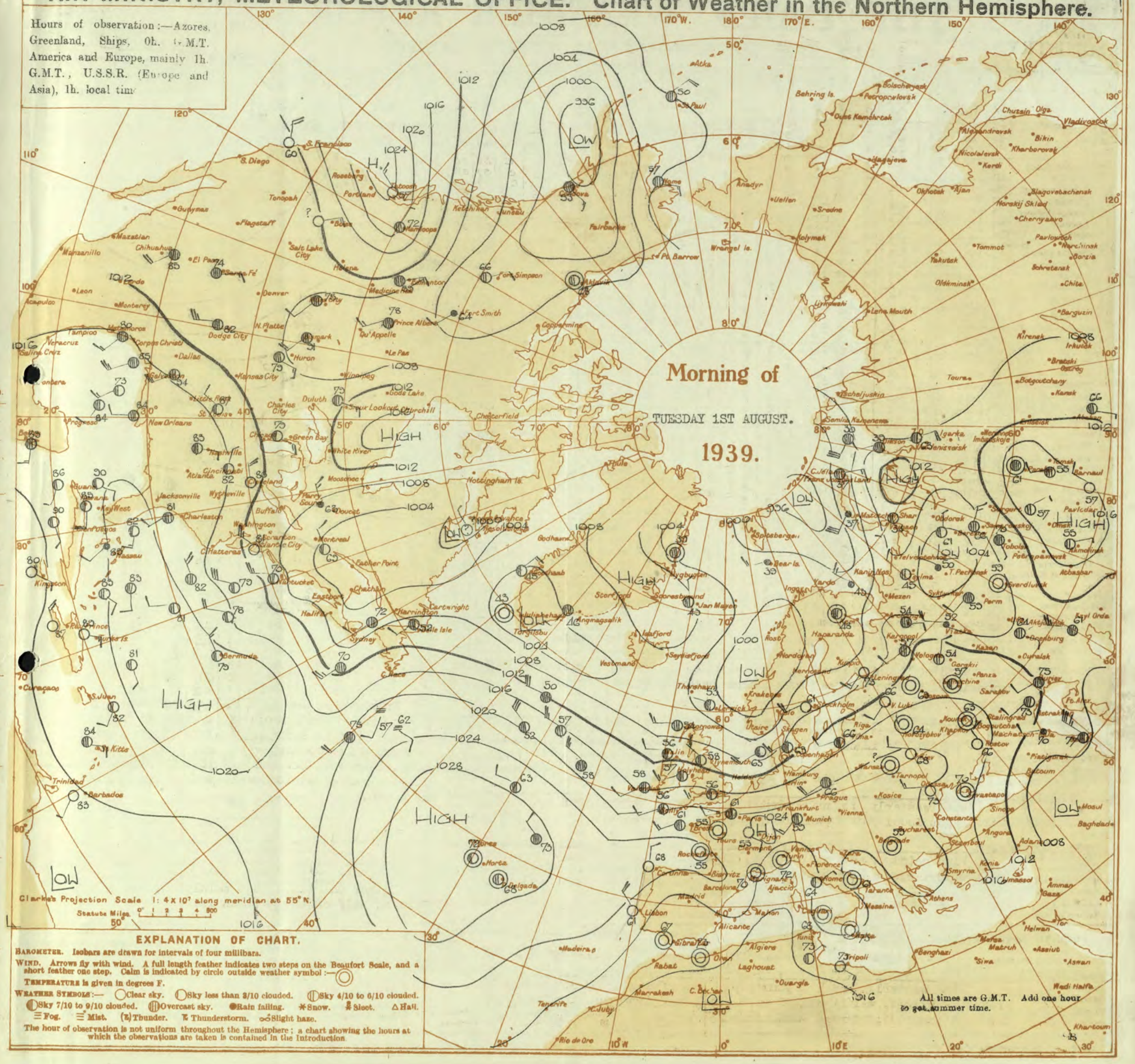
Rather unsettled, but mainly dry over the southern half of the British Isles.

Forecasts issued at 0930 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 1st August, 1939

No 28376

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1016.9	+6	SW'W	3	bc	56	85	8	-	-	6	0	2-3	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1017.7	+6	SW	3	c	54	92	7	5	3	-	1	9+	4000
	Calshot (Sthmtn.)	8	1018.1	+8	WSW	3	bc	55	85	7	1	3	1	Tr	2-3	2600
	Lympne	346	1018.0	+6	WSW	3	bc	53	97	7	-	-	8	0	2-3	-
	Manston	154	1017.2	+10	SW	3	bc	55	92	8	-	-	6	0	2-3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1013.4	+6	SW	3	bc	58	75	7	-	4	-	0	2-3	-
	Mildenhall	19	1014.5	+10	WSW	3	bc	56	92	7	-	3	1	0	4-6	-
	Cranwell	246	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	290	1017.4	+4	NW	5	c	58	92	8	8	2	-	7-8	9	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1018.0	+2	W	4	c	59	92	8	2	-	-	10	10	4000
	Plymouth	82	1019.0	+2	WSW	3	c/pr	58	92	8	6	-	-	10	10	1500
	The Lizard	240	1019.9	0	SW	3	c	56	97	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	163	1019.3	+2	SWW	2	c	56	97	8	5	2	-	4-6	10	1500
	Guernsey	175	1019.5	+2	W'S	5	c	57	97	8	7	-	-	7-8	7-8	2500
6	Pembroke	142	1016.7	+6	WNW	4	c	58	85	8	5	-	-	9+	9+	2500
7	Holyhead	26	1014.1	+26	W'S	3	c	57	85	8	5	9	6	4-6	7-8	4000
	Chester (Sealand)	16	1013.9	+10	W'S	3	bc	58	75	8	8	-	-	4-6	4-6	4000
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1010.8	+10	W'S	5	bc	57	85	7	-	4	8	0	4-6	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1008.6	+20	NW	3	bc	58	75	8	8	-	-	4-6	4-6	1500
11	St. Abbs Head	280	1007.3	+16	W	4	c/pr	56	85	8	8	6	-	7-8	9	1500
	Leuchars	36	1007.6	+14	WSW	3	c	55	92	8	5	3	-	7-8	9+	1500
12	Renfrew (Abbots I.)	19	1010.3	+14	W	3	bc	54	85	8	4	4	6	2-3	4-6	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1012.0	+12	WNW	4	c	56	92	8	8	-	-	9+	9+	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1007.2	+8	W	3	c	54	92	7	5	2	-	7-8	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1005.3	+6	NW	4	c	53	92	7	9	7	-	4-6	10	450
16	Lerwick	156	1002.1	+2	WNW	2	c	53	97	7	5	7	-	7-8	9	450
17	Blacksod Point	18	1013.2	-4	S	3	c	56	92	7	5	-	-	10	10	220
18	Malin Head	84	1012.2	+2	W	2	c	56	85	7	9	8	-	4-6	7-8	1500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1016.1	+2	SW	2	c	58	97	6	5	-	-	9+	9+	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1018.6	+14	SW	3	c	59	85	7	5	7	-	7-8	9+	2500	0	*
Croydon	1018.5	+10	SW	3	c	57	85	8	5	7	-	2-3	10	2500	1	*
S. Farnborough	1019.0	+12	SW	4	r0r0	57	85	7	5	7	-	4-6	10	1500	1	*
Boscombe Down	1019.2	+10	WSW	3	d0d0	56	97	6	5	2	-	4-6	10	5700	1	*
Calshot (Sthmtn.)	1019.4	+10	W'S	3	c	59	85	7	2	7	-	1	10	1500	1	2
Lympne	1019.8	+6	SW'W	2	r0	56	92	7	5	7	-	4-6	10	2600	0	§3
Manston	1019.1	+18	SW'W	3	c	58	85	7	2	7	-	1	9+	2500	1	*
Shoeburyness	1018.7	+18	SW	3	c	59	85	8	-	3	-	0	9+	-	1	*
Felixstowe	1017.8	+14	W'S	5	z0	57	85	6	5	-	1	4-6	4-6	1500	0	3
Gorleston	1015.6	+12	WSW	3	bc	57	85	7	-	4	-	0	4-6	-	0	2
Mildenhall	1017.0	+14	W'S	4	c	58	92	7	8	3	-	1	7-8	4000	1	*
Cranwell	1015.7	+14	W'S	3	z0	56	85	6	-	5	1	0	9	-	0	*
Birmingham	1017.5	+12	SW	2	c	55	85	8	5	3	-	4-6	7-8	2500	1	*
Upper Heyford	1017.9	+12	W'S	2	c	57	92	7	1	9	9	1	9	2500	1	*
Ross-on-Wye	1017.6	+12	SW'W	3	bc	57	85	8	7	-	-	2-3	2-3	4000	1	*
Hartland Point	1018.0	0	W	4	c/r	57	97	8	8	7	-	9	9+	1500	1	3
Bristol	1018.7	+10	W'S	2	c/pr	56	92	8	5	7	-	4-6	9	1500	1	*
Portland Bill	1018.6	+10	W	4	c	59	85	8	5	-	-	10	10	4000	1	4
Plymouth	1019.6	+6	W'S	1	c	58	92	7	5	3	-	9	9+	1200	1	1
The Lizard	1019.8	+6	SW'S	4	c	58	97	7	8	6	-	7-8	9+	1500	1	3
Scilly (St. Mary's)	1018.2	+4	WSW	3	c	58	97	8	8	7	-	7-8	10	1500	1	2
Guernsey	1021.1	+12	SW	2	r0	58	92	8	5	-	-	10	10	220	1	3
Pembroke	1018.1	+2	WSW	3	c	58	92	8	5	4	-	7-8	9+	2500	1	2
Holyhead	1016.0	+10	SW	2	c	58	85	8	8	4	-	2-3	7-8	4000	1	1
Chester (Sealand)	1016.4	+14	W'S	1	c	57	75	8	5	3	-	7-8	7-8	4000	1	*
Manchester	1015.8	+18	W'S	3	c	57	85	7	8	3	-	2-3	9	1500	1	*
Spurn Head	1014.7	+14	W'S	4	bc	60	85	6	-	3	2	0	4-6	-	0	3
Catterick	1013.7	+18	W'S	3	c	59	75	8	5	3	5	7-8	9	2500	1	*
Tynemouth	1011.8	+16	W	4	bc	58	86	8	2	-	1	2-3	2-3	1500	1	1
St. Abbs Head	1010.2	+20	WNW	5	bc	57	75	9	1	4	-	2-3	2-3	2500	0	3
Leuchars	1010.3	+14	WSW	3	bc	58	85	8	8	4	1	4-6	4-6	4000	0	*
Renfrew (Abbots I.)	1012.5	+10	W'N	3	c	56	85	8	8	4	6	4-6	7-8	1500	0	*
Eskdalemuir	1012.7	+14	W	3	c	53	85	8	8	-	5	4-6	7-8	1500	1	*
Point of Ayre	1014.7	+12	WNW	4	c	57	85	8	8	7	-	Tr	9+	1500	0	2
Tiree	1011.6	+6	W'S	2	c	56	85	8	5	-	-	9	9	2500	0	2
Stornoway	1009.5	+12	WNW	3	pr	54	92	8	8	-	-	10	10	1500	1	2
Dalwhinnie	1011.1	+20	SSW	3	c	53	85	6	4	6	-	7-8	9+	2500	1	*
Aberdeen	1008.9	+14	W	2	c	57	85	8	8	3	6	7-8	7-8	2500	1	1
Wick	1007.5	+16	NW	4	c	53	92	7	5	7	-	4-6	9+	1500	1	2
Lerwick	1005.0	+22	NE	3	c	52	97	7	5	7	-	7-8	10	800	1	*
Blacksod Point	1015.2	+2	WNW	5	iD	54	97	7	6	-	-	10	10	<150	1	3
Malin Head	1013.1	+4	SW	2	dd	54	92	5	6	-	-	9+	9+	800	1	2
Aldergrove	1014.2	+6	-	0	c/d	57	92	7	-	2	-	10	10	1500	1	*
Birr Castle	1015.4	+2	SW	1	c/d	56	97	8	5	3	1	4-6	9	2500	1	*
Valentia Obsy. †	1018.7	+14	NW'N	4	c/pr	55	86	5	5	-	-	9+	9+	1500	1	3
Roches Point	1017.1	+6	NW	3	c	57	92	8	8	1	-	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)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 31st Hrs. (36)
London (Kew)	67	56	51	2	-	8.1
Croydon	68	55	53	6	-	7.4
S. Farnborough	68	53	48	6	Tr	8.0
Boscombe Down	62	54	50	1	1	5.9
Calshot (Sthmtn.)	68	55	53	Tr	Tr	10.7
Lympne	66	52	49	0.3	Tr	10.3
Manston	70	52	49	Tr	-	10.1
Shoeburyness	72	56	51	2	Tr	8.4
Felixstowe	71	55	52	0.2	-	7.8
Gorleston	71	55	54	0.2	-	9.3
Mildenhall	71	53	49	1	Tr	7.5
Cranwell	69	53	51	0.3	Tr	7.0
Birmingham	66	53	49	0.5	-	6.8
Upper Heyford	66	52	47	0.4	-	*
Ross-on-Wye	66	55	52	Tr	Tr	4.7
Hartland Point	61	56	54	-	1	6.2
Bristol	65	56	52	1	0.5	11.4
Portland Bill	61	56	*	-	-	*
Plymouth	63	56	55	Tr	Tr	1.5
The Lizard	63	55	*	1	1	5.7
Scilly (St. Mary's)	63	56	*	Tr	3	7.5
Guernsey	63	56	54	0.2	1	9.3
Pembroke	60	56	*	-	Tr	3.4
Holyhead	63	55	54	Tr	-	3.1
Chester (Sealand)	66	55	51	0.1	-	4.6
Manchester	64	54	51	0.6	2	2.6
Spurn Head	71	56	*	0.2	Tr	8.1
Catterick	64	53	47	0.1	-	5.1
Tynemouth	64	55	50	5	-	5.8
St. Abbs Head	62	54	*	3	2	*
Leuchars	67		48	0.2	0.3	5.9
Renfrew (Abbots I.)	67	53	46	3	-	6.3
Eskdalemuir	63	50	47	5	1	2.1
Point of Ayre	63	53	*	4	-	4.5
Tiree	60	53	51	Tr	-	2.3
Stornoway	61	54	*	-	0.6	1.7
Dalwhinnie	62	50	47	4	3	3.7
Aberdeen	66	55	52	3	-	2.1
Wick	59	51	*	Tr	0.3	*
Lerwick	57	52	*	0.4	Tr	0.0
Blacksod Point	61	51	*	-	1	
Malin Head	61	52	*	1	0.5	2.2
Aldergrove	62	51	48	9	1	1.8
Birr Castle	64	54	51	1	0.1	5.4
Valentia Obsy. †	61	55	53	Tr	1	0.3
Roches Point	64	55	*	0.2	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.
Kew	18	ccprc	cqUprL	bcybcc	67	56	51	2	-	8.1	*	*	7
Croydon	217	cpr0prc	cPRq	cbwbwc	68	55	53	6	-	7.4	*	*	7
Greenwich (Royal Observatory)	149	cr	cirRtlc	bcbcd0	68	54	48	5	Tr	7.3	88	83	6
City (Sunhill Row)	—	*	*	*	*	*	*	*	*	7.1	*	*	*
Westminster (St. James' Park)	27	*	*	*	67	56	51	8		6.3	83	87	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	68	55	49	1	-	7.2	83	88	*
Camden Square	110	bc	bc	*	68	55	52	0.3	-	*	*	76	*
Kensington	80	bcptrbq	bc	*	68	55	50	1	-	6.7	At 18h 54	79	*
Hampstead Observatory	450	c	bctlR	bc	67	53	52	0.1	-	6.7	*	82	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
<0.3 whole period			

KEW OBSERVATORY.

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

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 31st July Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 1st August 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	1018.3	SW	2	z	70	1023.1	W	1	c	61	72	59	3	-
Brussels	1016.1	WSW	3	bc	66						73		-	
Berlin	1015.1	W	4	bc	76	1018.3	WSW	4	b	68	84	64	-	-
Zurich	1020.6	SE	3	c/pr	64	1023.4	NW	3	c	61	75	61	0.1	Tr
Rome	1019.9	-	0	b	77	1019.4	ENE	1	bc	68	*	*	8	-

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 2nd August 1922.

No. 26377

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

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. (6)	°Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1019.4	-2	SWN	3	c	66	65	8	2	6	6	2-3	7-8	2500
	Croydon	1019.6	+2	SWN	3	c	68	65	8	2	3	8	7-8	9+	4000
	S. Farnborough	1019.6	-6	SW	3	c	67	65	8	7	3	6	7-8	9+	2500
	Boscombe Down	1019.4	-2	SWN	3	c	65	65	9	8	1	-	9	10	2500
	Calshot (Soton.)	1020.4	+2	SW'S	4	c	66	75	8	8	7	8	2-3	9+	1500
	Lympne	1020.2	-2	SW'N	3	c/p	64	75	8	8	-	-	9+	9+	2500
	Manston	1019.9	+2	SW	3	c	65	65	7	8	6	-	7-8	9+	2500
2	Shoeburyness	1019.4	-2	SW	4	bc	68	65	8	2	3	5	4-6	4-6	2500
	Felixstowe	1018.9	0	W'S	4	c	69	65	8	8	3	-	4-6	9	2500
	Corleston	1017.5	+6	WSW	2	bc/pr	64	75	7	2	3	-	2-3	4-6	2500
	Mildenhall	1017.6	0	W'S	4	c	69	65	8	8	4	-	7-8	7-8	2500
	Cranwell	1017.4	+10	WSW	3	c	67	55	7	2	4	1	4-6	7-8	2500
3	Birmingham	1018.0	+2	SW	3	c	65	55	8	8	-	8	7-8	9+	2500
	Upper Heyford	1018.8	+2	W	3	c	66	65	7	8	-	6	4-6	9	1500
4	Ross-on-Wye	1017.8	0	SW	3	c	65	65	8	8	-	2	4-6	9+	4000
5	Hartland Point	1019.3	+8	W	3	c	61	92	8	8	2	-	4-6	9	1500
	Bristol	1019.3	-2	WSW	3	c	67	65	9	8	7	6	7-8	9	2500
	Portland Bill	1020.2	+6	WSW	4	c	61	92	7	5	-	-	10	10	4000
	Plymouth	1019.8	-2	SW'S	4	c	62	92	7	8	7	-	9	9+	1500
	The Lizard	1021.2	+12	WSW	3	c	61	92	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1021.0	+6	NNW	4	c	63	85	8	8	8	6	2-3	9+	2500
	Guernsey	1021.9	+2	WSW	3	c	61	85	7	5	2	-	9	10	800
6	Pembroke	1018.7	+2	W'N	4	c	61	92	8	2	7	-	4-6	7-8	2500
7	Holyhead	1016.8	0	S'W	4	c	61	85	8	1	7	-	7-8	9+	800
	Chester (Sealand)	1017.4	+2	NNW	1	c	65	65	8	8	7	5	7-8	9+	2500
8	Manchester	1017.0	+2	W	3	c	65	65	8	7	3	-	4-6	9+	4000
10	Spurn Head	1016.2	+6	WNW	5	c	65	65	6	8	8	-	4-6	9+	2500
	Catterick	1015.7	+10	W'S	4	c	64	65	8	4	7	-	4-6	9	2500
	Tynemouth	1015.8	+10	W	4	bc	63	65	7	2	3	-	4-6	4-6	2500
11	St. Abbs Head	1013.0	+12	WNW	4	c	61	65	8	8	6	-	4-6	9	2500
	Leuchars	1012.7	+14	WSW	3	c	66	55	9	8	3	-	4-6	7-8	4000
12	Renfrew (Abbotsl.)	1014.6	+6	WNW	3	c	63	65	8	8	7	-	9	9+	2500
	Eskdalemuir	1014.5	+8	SW	5	c	59	75	8	8	-	-	9	9	1500
	Point of Ayre	1015.9	0	W	4	c	63	75	8	8	7	-	4-6	9+	2500
13A	Tiree	1013.4	+6	W'S	3	c/r	60	85	8	5	-	-	9	9	1500
13B	Stornoway	1012.1	+6	WNW	3	c	61	75	8	5	7	-	7-8	9+	2500
15	Dalwhinnie	1013.5	+12	W	2	c	57	75	7	4	6	-	4-6	9	2500
	Aberdeen	1011.7	+12	NNW	2	c/pr	61	75	8	8	-	-	9+	9+	1500
	Wick	1010.8	+16	NW	3	c	58	75	8	5	7	9	7-8	9+	1500
16	Lerwick	1009.0	+16	NNW	3	c	54	85	8	5	7	-	7-8	10	1500
17	Blacksod Point	1018.2	+10	WNW	4	c	60	85	8	5	-	-	10	10	450
18	Malin Head	1015.4	+16	NW	4	c	59	85	7	8	-	-	9	9	1500
	Aldergrove	1014.7	+2	SWN	3	c⊕	66	65	8	8	-	8	4-6	9+	2500
19	Birr Castle	1017.9	+10	WNW	3	c	61	75	8	3	3	-	4-6	7-8	800
20	Valentia Obsy.†	1021.3	+8	W'N	3	c	61	75	8	8	-	-	9	9	2500
	Roches Point	1019.9	+12	NW	4	c	62	75	9	3	-	3	4-6	7-8	2500

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

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)	1018.8	-2	SW	4	c	65	75	8	8	7	8	4-6	9+	4000	0	*
	Croydon	1019.1	-2	SSW	3	c	64	75	8	3	4	4	2-3	9	4000	1	*
	S. Farnborough	1019.0	-2	SW'S	4	ir	62	85	7	5	2	-	7-8	10	1500	1	*
	Boscombe Down	1019.0	-2	WNW	2	c/r	60	85	8	8	4	7	2-3	9+	2500	1	*
	Calshot (Soton.)	1019.6	-8	SW'N	4	c	63	85	8	6	1	-	9+	10	800	1	2
	Lympne	1020.2	0	SW	3	c/pr	61	85	8	5	7	-	1	9+	1500	0	§3
	Manston	1019.3	+2	SW	4	c	65	75	8	5	3	-	7-8	9+	4000	0	*
2	Shoeburyness	1019.0	-2	SW'N	4	c	66	85	8	9	7	8	4-6	9	1500	0	*
	Felixstowe	1018.5	+2	W	3	c	69	65	8	2	4	8	2-3	9+	2500	0	2
	Corleston	1017.6	0	W	2	c	70	65	6	2	3	7	2-3	9	2500	0	1
	Mildenhall	1017.5	-2	W	2	c	67	65	8	7	7	5	4-6	9	2500	0	*
	Cranwell	1017.0	-2	WSW	1	c	65	75	7	2	7	6	2-3	9+	4000	0	*
3	Birmingham	1017.3	-6	NW	3	c	65	55	8	8	-	8	7-8	9	2500	1	*
	Upper Heyford	1018.1	-2	SW	3	pr	63	85	8	8	4	8	7-8	9+	1500	1	*
4	Ross-on-Wye	1017.7	-4	SW'N	3	c	63	65	8	8	-	1	7-8	9	4000	0	*
5	Hartland Point	1020.4	+6	W	4	c	60	85	8	2	3	3	4-6	7-8	2500	1	3
	Bristol	1019.3	-2	WSW	4	c	61	85	8	8	7	4	2-3	7-8	2500	1	*
	Portland Bill	1019.6	+8	W	4	c	61	92	7	5	-	-	7-8	9	4000	1	4
	Plymouth	1021.1	+6	W'N	3	bc	62	65	8	8	3	-	4-6	4-6	4000	1	2
	The Lizard	1022.2	+4	W'S	4	bc	60	85	8	8	-	-	2-3	2-3	2500	1	2
	Scilly (St. Mary's)	1022.0	+2	WNW	4	bc	60	85	8	2	-	-	2-3	2-3	2500	0	3
	Guernsey	1022.1	+2	WSW	4	c	60	85	7	5	2	9	4-6	7-8	800	1	3
6	Pembroke	1019.5	0	W'N	4	bc	60	85	8	7	7	-	2-3	4-6	4000	1	2
7	Holyhead	1017.3	+6	WSW	4	c/p	60	75	9	8	9	6	7-8	9+	2500	1	2
	Chester (Sealand)	1017.1	+2	WSW	1	c/pr	64	75	9	8	7	-	4-6	9+	2500	1	*
8	Manchester	1016.8	+2	WNW	3	c	62	75	8	8	7	-	7-8	10	2500	1	*
10	Spurn Head	1016.9	+2	-	0	c	65	75	5	5	-	-	9+	9+	2500	0	1
	Catterick	1015.6	-6	W'S	2	c	62	65	9	4	9	9	1	9	2500	1	*
	Tynemouth	1014.7	0	W	4	c	63	65	8	8	-	-	7-8	7-8	1500	1	1
11	St. Abbs Head	1013.5	+4	WNW	3	c	60	85	9	3	3	6	4-6	9	2500	0	2
	Leuchars	1013.3	0	W	3	c	62	85	9	8	7	-	7-8	9+	2500	0	*
12	Renfrew (Abbotsl.)	1015.1	+2	WNW	3	c/pr	60	75	8	6	6	-	9	9+	1500	1	*
	Eskdalemuir	1015.0	+2	SW'S	3	r	57	85	7	6	3	-	7-8	9+	800	1	*
	Point of Ayre	1016.0	-2	WNW	3	c	58	97	8	8	6	-	4-6	9	2500	1	2
13A	Tiree	1014.9	+4	W	3	bc	59	85	8	8	3	9	4-6	4-6	2500	0	2
13B	Stornoway	1013.4	+6	WNW	4	c	58	85	8	8	7	2	7-8	9	4000	1	2
15	Dalwhinnie	1014.5	+6	S	2	ir	55	85	6	6	2	-	4-6	10	1500	1	*
	Aberdeen	1012.9	+4	SSE	2	pr	57	92	7	9	-	-	9	9	1500	1	1
	Wick	1012.3	+6	NNW	3	c	57	75	8	5	7	8	4-6	7-8	1500	1	1
16	Lerwick	1011.2	+8	NW	4	c	53	85	8	5	7	-	7-8	9	1500	1	*
17	Blacksod Point	1018.2	0	W	4	c	59	75	8	5	3	-	4-6	7-8	800	0	2
18	Malin Head	1016.7	+6	W	4	c/pr	57	85	[illegible]	8	7	-	4-6	7-8	4000	1	2
	Aldergrove	1017.1	+14	WNW	2	c	59	75	8	8	1	-	7-8	7-8	2500	1	*
19	Birr Castle	1019.5	+8	WNW	2	c	59	75	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy.†	1021.8	+2	W	3	c	60	75	8	8	-	1	9+	9+	1500	1	2
	Roches Point	1020.8	+2	N	3	c	63	75	8	5	-	3	4-6	7-8	2500	1	1

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 1st (37)	Weather. 13h.—18h. 1st (38)	Weather. 18h. 1st to 1h. 2nd (39)	Weather. 1h.—7h. 2nd (40)
1	London (Kew)	cpr.cbc	bccpr.c	PRHdrRl	bccm.
	Croydon	c.r.bc	c⊕bc	cpr.tbw	bwc⊕
	S. Farnborough	r.r.id.c⊕c	c.pr.cr	ircbc	bcwm.
	Boscombe Down	cd.m.bccc	pr.irrrc	cbcb	bcmwcm
	Calshot (Soton.)	c	cciirc	cbcb	bc
	Lympne	cir.c	cjpcpr.	cpr.bcbw	bwbccm
	Manston	cir.c	c	cprbc	bcbw,cm
2	Shoeburyness	ir.cbc	bccv	ctl PR	c⊕
	Felixstowe	bcm.c	ccpr.c	ctlrRR	cbc
	Corleston	bccpr.	bccy	cotlrc	cbc z.
	Mildenhall	c	c	cprtbc	b,cm.w
	Cranwell	cm.cbc	bcc	cpr.	cbcbwmc
3	Birmingham	cbcc	ct	cbc	bcc
	Upper Heyford	c	ccpr	ctbc	bcbwcw
4	Ross-on-Wye	bcc	cbcc	cp.cbc	c
5	Hartland Point	c	p.c	bc	bcc
	Bristol	cpr.bcc	ctlhRc	cbcl	bccw
	Portland Bill	cpr	c	bcb	bcc
	Plymouth	cirm.c	c⊕cbc	bcbbc	cbcm
	The Lizard	c	cbc	bcw	bcc
	Scilly (St. Mary's)	c	cbc	bc	c
	Guernsey	oir.c	c	bccbc	bcc
6	Pembroke	cpr.	cbc	c	cw
7	Holyhead	bcc⊕	c	cpr.c	c
	Chester (Sealand)	bccy	cyprpr.	cbc	cpr.pr
8	Manchester	c	c	c	cbc.pr.
10	Spurn Head	c	cm.	optlr	c
	Catterick	cbcc	c	c	bcw
	Tynemouth	bc	bcc	coir	cbc
11	St. Abbs Head	cbcc	c	cbc	bcc
	Leuchars	bccy	cprpr.pr	c	bcbcw
12	Renfrew (Abbotsl.)	cpr.d.c	cpr.c	c	cbccwir
	Eskdalemuir	bccpr.	cpr.cr.	rrrcr.bc	bcc
	Point of Ayre	cd.c	CPRc	circ	c
13A	Tiree	circ	cbcc	bcc	ciR
13B	Stornoway	cpr	cpr	cpr	cpr.
15	Dalwhinnie	c	cir	•	cir
	Aberdeen	ccpr.	cPR	cprc	cprc
	Wick	c	c	crr	rrc
16	Lerwick	cid.	c	c	c
17	Blacksod Point	c	c	prc	iR
18	Malin Head	⊕cid.c	cbcc	cprbcc	crrc
	Aldergrove	d.pr.c	prPRc	pr.c	bm.ir.
19	Birr Castle	cidc	c	c	cir
20	Valentia Obsy.†	cbcc	c	c	cpr.c
	Roches Point	cbcc	c	cpr.c	cwc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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.*

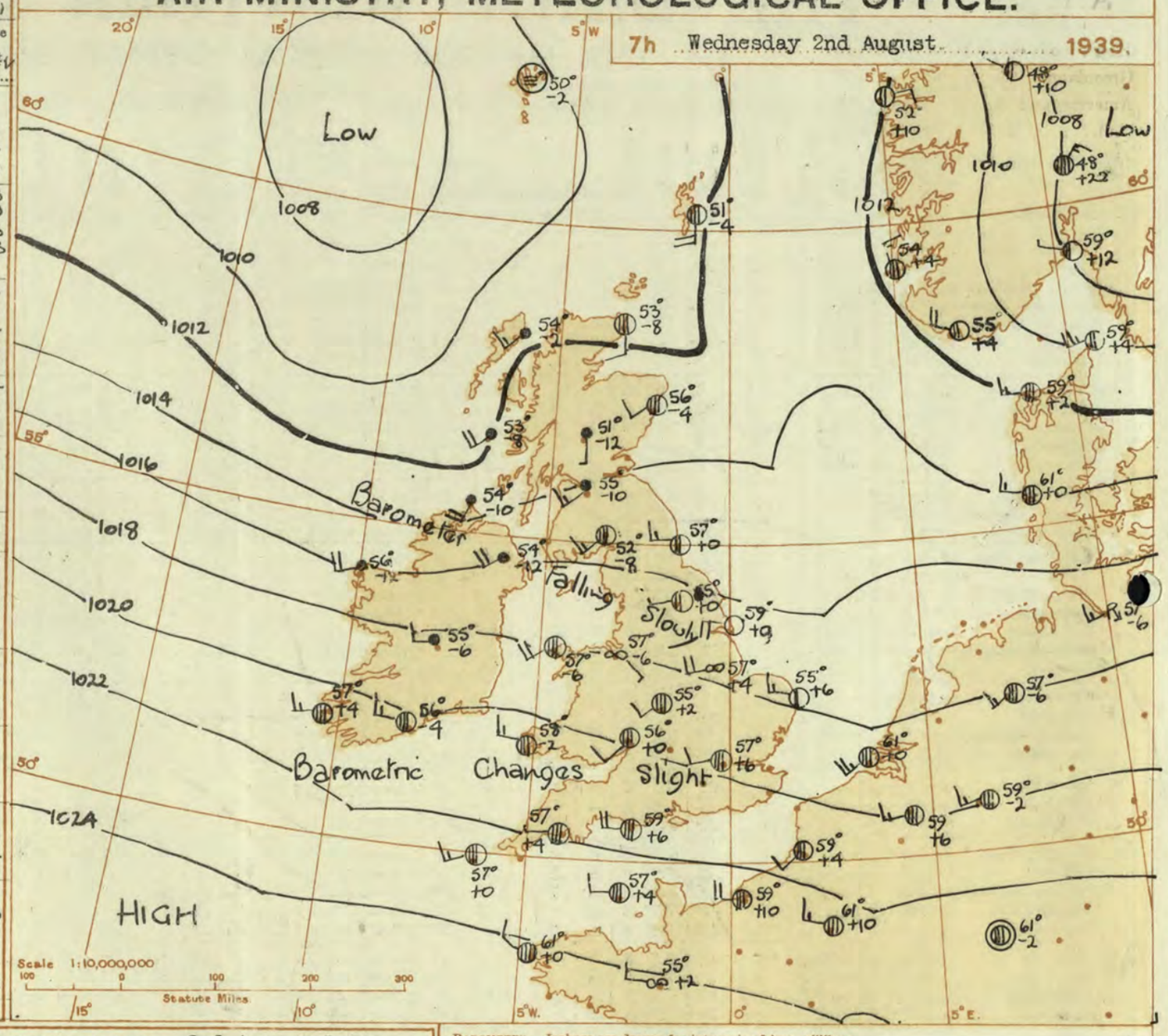
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 1st August 1939

Districts.	Stations.	Weather: Forenoon.	Weather: Afternoon.	Temperature (°F): Min. 21h. yesterday to 9h. 18th	Temperature (°F): Max. 9h.–17h. 18th	Rainfall (mm.): Night 17h. 31st to 9h. 18th	Rainfall (mm.): Day 9h.–17h. 18th	Sunshine (Hrs.): Sunrise to 17h. 18th	Sunshine (Hrs.): Sunrise to Sunset 21.15
1	Tunbridge W.	oco	ocrco	52	68	1	Trace	2·7	10·1
	Bournemouth	cbcc	p.c	56	66	-	Trace	1·4	8·1
	Ventnor ...	pobc	bco	58	64	Trace	-	4·1	9·5
	Southsea ...	ocb	ocpc	58	68	-	0·4	2·9	11·4
	Bognor Regis	cpr	bcpr	58	64	0·5	0·5	3·3	11·2
	Littlehampton	bcp.c	cbcc	57	65	0·4	0·1	3·2	11·8
	Worthing ...	cd.bc	bcc	57	67	0·3	Trace	3·3	10·9
	Brighton ...	cbc	bcc	59	65	0·2	-	2·7	12·8
	Eastbourne† ...	crcbc	bcc	57	65	2	1	3·3	10·8
	Hastings† ...	rroc	bccbc	56	66	1	3	2·1	11·1
	Folkestone ...	o	ocrc	54	66	Trace	0·5	1·8	10·8
	Dover ...	opcop	oc	56	65	Trace	Trace	1·9	11·6
	Deal	coc	ocbcc	54	68	Trace	-	2·3	11·4
	Ramsgate ...	c	cbc	55	68	-	-	3·4	10·2
	Margate ...	cd.	cbcc	54	69	1	Trace	2·2	10·6
2	Southend ...	ocbc	bcc	55	75	Trace	-	4·1	7·4
	Clacton-on-Sea	cbc	bc	55	70	-	-	3·7	8·5
	Dovercourt ...	bc	bcrbc	53	70	-	0·5	4·6	8·3
	Lowestoft ...	cbcp	cbcc	54	69	1	Trace	3·7	8·8
	Skegness ...	bc	cbco	52	69	-	-	4·0	8·5
	Mablethorpe...	bc	o	54	71	-	-	3·9	7·8
	Cleethorpes ...	bc	bcc	55	69	Trace	-	5·4	9·0
3	Leamington S.	bcc	cptlc	53	69	-	9	5·5	7·2
4	Cheltenham†	cbc	cbcq	54	70	Trace	-	6·4	5·3
5	Bath	bp.c	cpc	57	70	1	2	3·6	11·7
	Weymouth ...	c	pc	58	65	-	0·5	1·1	4·3
	Jersey ...	rc	cpc	58	65	2	1	0·5	10·9
	Torquay ...	or.rp	bccv	57	67	0·1	1	2·6	5·0
	Falmouth ...	or.oc	b	56	66	0·1	Trace	4·0	4·4
	Penzance ...	rcbc	bccb	56	66	2	-	3·9	8·3
	St. Ives ...	*	*	55	64	0·5	0·3	3·1	6·7
	Bude... ...	cbcc	cbc	57	64	1	-	2·9	2·9
	Ilfracombe ...	bccdc	ocbc	57	62	1	-	4·6	5·3
6	Aberystwyth	cbcc	cprbc	57	63	-	1	3·4	3·5
7	Llandudno ...	bcc	cbcc	55	66	-	-	6·8	3·7
	Colwyn Bay...	bcc	bcc	55	66	-	-	3·6	1·5
	Rhyl	bcc	*	56	67	0·3	Trace	5·1	2·3
8	Wallasey ...	cbc	bcc	56	66	1	-	7·0	2·3
	Southport ...	p.bcv	bcvcv	56	66	0·3	Trace	4·7	0·9
	Blackpool ...	c	c	57	65	0·3	-	4·0	0·4
	Morecambe ...	cbc	bcc	57	65	-	-	3·6	3·5
9	Ilkley... ...	bc	bc	55	67	1	-	5·3	4·3
	Harrogate ...	cbc	c	53	65	-	-	4·9	5·8
10	Berwick-on-T.	cbc	ctlr	54	65	1	13	7·6	4·3
11	Dunbar ...	cr.m.	bcm.	53	65	4	-	10·2	5·7
12	Troon... ...	coc	bcbbc	56	60	-	-	3·5	8·2
	Douglas ...	cpb	bc	52	63	1	0·3	3·0	3·4

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England	Wind southwest to west, light to moderate; fair apart from scattered showers at first; occasional rain this evening and tonight with thunder locally, then bright periods; rather cool.
3 E. Midlands ... 4 W. Midlands ...	Wind southwest to west, light to moderate; cloudy, occasional rain and possible thunder locally at first; bright periods later; rather cool.
5 S.W. England 6 South Wales ...	Wind west, moderate; occasional showers; bright periods; average temperature.
7 North Wales ...	As 3 - 4.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind southwest veering west, moderate or fresh; cloudy, occasional rain, thunder locally; showers and brighter periods later; rather cool.
12 S.W. Scotland & Isle of Man.	Wind westerly, moderate or fresh; rain early; bright periods; showers, perhaps with thunder locally; rather cool.
13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind south to southwest, moderate; rain at times, of a heavy thundery type in places; some brighter intervals later; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind westerly, moderate or fresh; variable sky; showery, especially in the North; local thunderstorms; rather cool.

GENERAL INFERENCE.

A shallow depression to northwest of Scotland and an associated trough of low pressure over Ireland will both move eastwards. Weather will be unsettled with some rain in most districts, especially in the North. Thunder will occur in places.

FURTHER OUTLOOK.

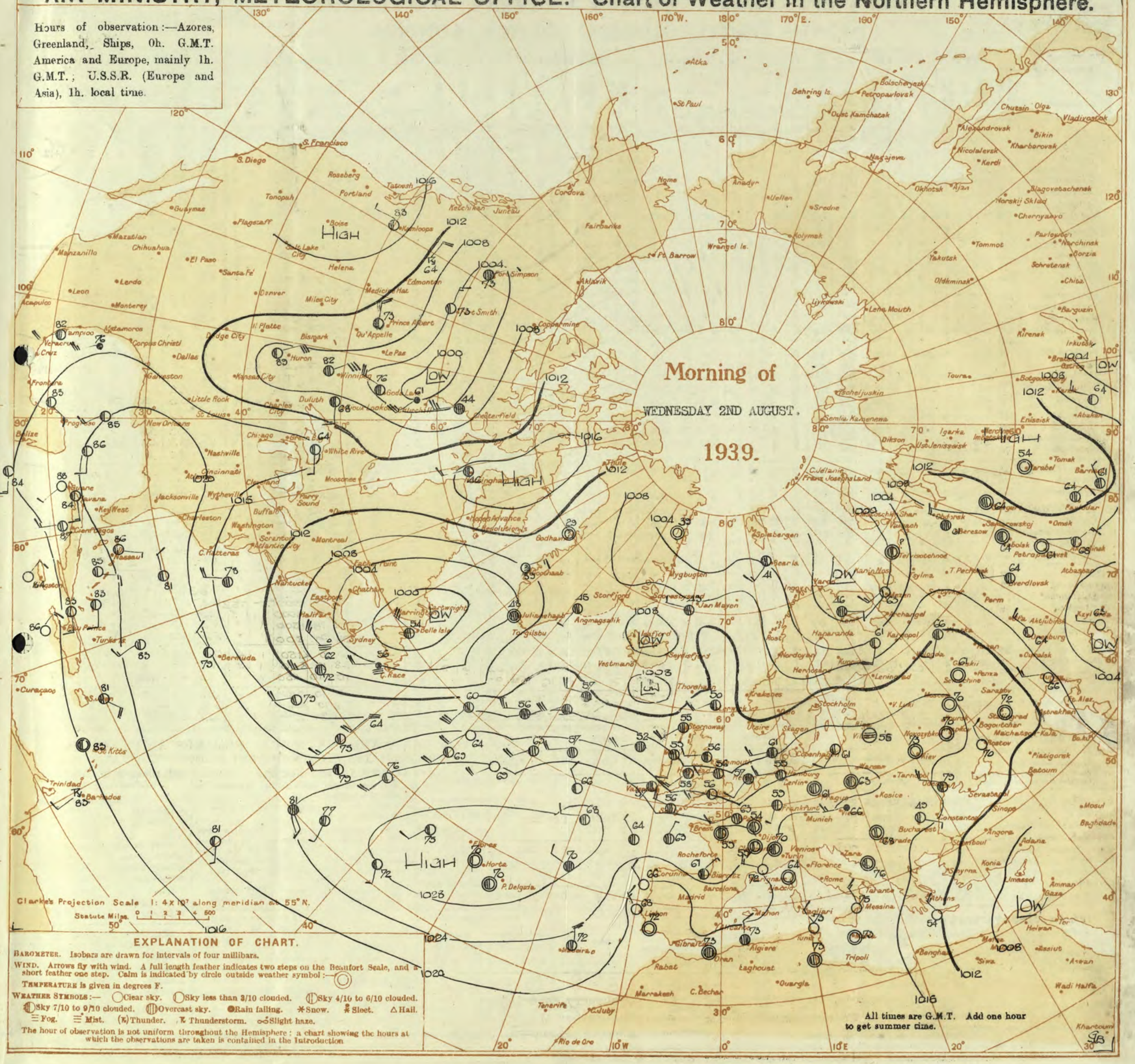
Rather showery; local thunder.

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.



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

Wednesday 2nd August, 1939
No. 26377

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

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	1019.7	+2	WSW	3	b	56	97	8	-	4	-	0	Tr	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1020.9	+2	W'N	3	b	52	92	7	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1020.7	+6	W'S	2	Z₀	58	92	7	-	-	-	0	0	-
	Lympne	346	1019.9	-2	W'S	3	b	54	97	7	-	3	-	0	Tr	-
	Manston	154	1019.1	-2	SW'W	3	bc	54	97	7	-	-	1	0	2-3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1017.4	-4	W'S	1	c	60	75	7	5	-	-	7-8	7-8	2500
	Mildenhall	19	1017.7	0	W	2	bc	51	97	7	-	3	-	0	2-3	-
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1021.6	+4	E	2	bc	58	92	8	4	4	2	2-3	4-6	2600
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1021.0	+6	WNW	3	b	60	85	8	-	-	-	0	0	-
	Plymouth	82	1022.7	0	W	1	bc	65	97	8	-	-	8	0	4-6	-
	The Lizard	240	1024.1	+8	W	3	bc	65	97	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1023.7	0	WNW	3	c	56	97	8	8	8	6	4-6	7-8	2500
	Guernsey	175	1023.2	-10	W'N	3	bc	55	85	8	2	-	-	2-3	2-3	2500
6	Pembroke	142	1021.5	+6	WNW	3	c	58	92	8	8	6	-	7-8	9+	2500
7	Holyhead	26	1018.8	+2	WSW	3	c/pr	58	85	8	8	9	-	7-8	9+	2500
	Chester (Sealand)	16	1019.1	+6	W'N	3	bc	56	85	8	4	-	-	4-6	4-6	7200
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1016.6	+4	W'S	2	c	56	85	7	-	8	7	0	10	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1015.5	+2	W	2	c/r	56	92	7	8	-	-	9	9	1500
11	St. Abbs Head	280	1018.9	0	WNW	5	bc	55	85	9	1	4	1	1	2-3	4000
	Leuchars	36	1014.9	+4	WSW	2	c	54	85	9	5	3	-	7-8	9	2500
12	Renfrew (Abbots I.)	19	1016.4	+2	WSW	2	c	55	85	8	4	-	-	7-8	7-8	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1017.8	+4	WSW	2	c	54	97	8	5	3	-	2-3	7-8	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1012.9	-4	SSW	4	c/pr	55	92	7	8	7	-	7-8	9	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1013.2	+2	SSW	1	rr	53	97	5	5	2	-	7-8	10	800
16	Lerwick	156	1012.7	+6	W'S	3	c	50	92	8	5	3	-	7-8	9+	1500
17	Blacksod Point	18	1017.5	-4	W	1	c	56	92	7	8	-	-	9+	9+	450
18	Malin Head	84	1013.8	-8	S	2	c	55	85	7	9	4	-	7-8	9	1500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1021.5	-2	W'S	2	c	57	97	7	5	-	-	9	9	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 1st Hrs. (36)
London (Kew)	1020.4	+10	WSW	2	Z₀	57	85	6	5	1	-	Tr	10	1500	1	*	68	54	48	Tr	13	4.6
Croydon	1020.2	+6	W'S	2	c	57	92	6	5	4	7	Tr	10	1500	1	*	69	52	49	0.4	Tr	3.8
S. Farnborough	1020.5	+6	W'S	1	Z₀	64	97	6	5	1	-	4-6	10	1500	1	*	68	50	45	0.2	0.2	2.2
Boscombe Down	1020.6	+2	W'N	2	c	54	97	7	5	2	-	4-6	10	5700	1	*	66	50	45	2	Tr	2.6
Calshot (Sthmtn.)	1021.1	+4	W'S	1	c	55	92	7	5	2	-	2-3	10	5700	1	1	68	50	48	0.2	-	1.8
Lympne	1020.2	+4	W'N	2	Z₀	53	92	5	5	-	7	Tr	10	800	0	§1	65	50	46	0.3	0.3	1.0
Manston	1019.9	+6	W	3	Z₀	58	85	6	5	-	8	4-6	9+	2500	0	*	70	51	49	Tr	0.4	8.2
Shoeburyness	1019.9	+8	WNW	2	c	60	85	7	-	-	6	0	7-8	-	1	*	72	54	50	Tr	1	3.4
Felixstowe	1019.1	+8	WNW	4	c	57	85	7	1	-	6	1	9	1500	1	2	71	55	53	Tr	4	4.2
Gorleston	1017.7	+6	W'N	3	bc	55	92	5	5	-	-	4-6	4-6	1500	1	1	72	53	51	0.2	1	5.4
Mildenhall	1018.4	+6	W	3	Z₀	56	92	6	-	7	6	0	9	-	1	*	71	49	43	-	0.1	7.6
Cranwell	1017.7	+4	W'S	4	Z₀	57	85	6	5	7	6	2-3	9	5700	1	*	69	52	50	-	Tr	5.5
Birmingham	1019.5	+2	SW	2	c	55	85	8	-	7	-	0	9	-	1	*	68	53	48	-	-	5.3
Upper Heyford	1020.3	+10	WSW	2	c	53	97	7	5	4	7	1	10	5700	1	*	69	48	39	0.2	-	*
Ross-on-Wye	1019.7	0	SW'S	2	c	56	85	8	5	2	-	7-8	10	2600	1	*	69	51	46	-	Tr	6.5
Hartland Point	1020.8	+2	NW	3	c	58	85	8	5	4	4	4-6	7-8	1500	0	2	63	57	54	Tr	-	4.5
Bristol	1020.7	+2	SW'W	2	c	56	92	7	5	7	7	2-3	10	2500	1	*	67	54	51	16	-	5.1
Portland Bill	1021.2	+6	W	4	c	59	92	8	5	4	-	4-6	9	4000	1	3	61	56	*	Tr	-	*
Plymouth	1022.2	+4	W	1	c	57	92	6	5	7	-	7-8	9+	4000	1	1	64	55	52	3	-	3.0
The Lizard	1022.9	-4	SW	2	c	56	92	8	3	7	-	4-6	7-8	2500	1	1	63	54	*	-	-	6.6
Scilly (St. Mary's)	1022.7	0	WSW	3	c	57	92	8	8	7	5	4-6	9	2500	0	2	65	55	*	-	-	7.9
Guernsey	1022.9	+4	W	2	c	57	85	8	8	3	-	2-3	7-8	450	1	2	63	53	50	Tr	-	2.3
Pembroke	1020.6	-2	WNW	3	c	58	92	8	8	7	-	4-6	9	1500	1	2	61	56	*	Tr	-	5.6
Holyhead	1017.9	-6	SW'W	4	c	57	85	8	5	2	-	9+	10	5700	1	2	62	55	54	-	Tr	4.4
Chester (Sealand)	1018.1	-6	SE	1	Z₀	57	85	6	8	7	-	4-6	10	4000	1	*	68	53	49	1	0.3	5.1
Manchester	1017.8	0	SW	3	c/pr	56	92	6	8	7	-	4-6	10	2500	1	*	67	50	47	-	Tr	2.8
Spurn Head	1016.6	0	W'N	4	c	59	85	6	5	3	6	2-3	7-8	1500	1	3	70	55	*	-	8	4.1
Catterick	1016.1	0	W'S	1	bc	55	85	8	8	3	5	1	4-6	2500	1	*	64	52	47	-	-	4.8
Tynemouth	1015.1	0	W	3	bc	57	85	6	2	3	1	2-3	4-6	2600	1	1	66	52	48	-	0.3	9.4
St. Abbs Head	1014.1	+2	W	3	c	55	85	8	7	7	2	4-6	7-8	2500	0	2	63	54	*	-	-	*
Leuchars	1013.7	-6	WSW	3	c	57	85	7	8	7	6	4-6	9+	4000	0	*	69	49	41	0.6	-	6.0
Renfrew (Abbots I.)	1014.2	-10	SW	3	r₀	55	85	7	5	7	-	7-8	10	1500	1	*	63	50	45	0.3	Tr	2.2
Eskdalemuir	1015.2	-8	SW	3	c	52	92	7	5	-	-	10	10	450	1	*	61	46	41	1	4	2.3
Point of Ayre	1015.9	-8	W	4	c	56	97	8	5	1	-	7-8	10	1500	1	2	68	50	*	2	1	3.4
Tiree	1011.8	-8	SW	4	iR	53	92	6	-	2	-	9+	9+	800	1	3	60	52	50	1	4	2.4
Stornoway	1012.0	-2	SW	3	r₀r₀	54	92	7	8	-	-	10	10	1500	1	1	63	53	*	0.3	1	4.2
Dalwhinnie	1013.5	-12	S	1	ir	51	92	6	6	-	-	10	10	1500	1	*	62	47	40	0.3	1	3.7
Aberdeen	1013.1	-4	SW	2	c	56	85	8	5	7	-	7-8	7-8	4000	1	1	63	50	45	9	3	0.5
Wick	1011.5	-8	S	2	c	53	97	8	5	7	9	7-8	9+	1500	1	1	59	47	*	-	6	*
Lerwick	1011.9	-4	S	4	c	51	92	8	8	7	-	7-8	9+	800	1	*	56	49	*	Tr	-	1.4
Blacksod Point	1015.8	-12	WSW	4	iR	56	92	7	6	-	-	10	10	<150	1	4	61	52	*	-	10	*
Malin Head	1013.2	-10	SSW	4	r₀r₀	54	92	6	9	2	-	7-8	10	800	1	3	60	52	*	4	5	2.7
Aldergrove	1015.1	-12	SW	4	ir₀	54	92	7	6	-	-	10	10	450	1	*	66	53	48	11	1	1.2
Birr Castle	1019.2	-6	W	2	ir	56	92	7	5	-	-	10	10	2500	1	*	65	52	48	Tr	0.2	1.2
Valentia Obsy. †	1021.0	+4	W'S	3	c	57	85	8	5	-	-	10	10	1500	1	2	62	56	52	-	Tr	2.8
Roches Point	1020.3	-4	WNW	3	c	56	92	8	5	7	-	2-3	9+	2500	1	1	64	55	*	-	0.2	*

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	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	cpr₀cbc	bccprc	PRHdrcm	68	54	48	Tr	13	4.6	•	•	0
Croydon	217	cr₀bc	c⊕bc	bcwc⊕	69	52	49	0.4	Tr	3.8	•	•	7
Greenwich (Royal Observatory)	149	cbc	bcct	cRdbcm	72	52	47	-	0.6	4.3	53	80	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	4.1	*	*	*
Westminster (St. James' Park)	27	*	*	*	71	59	50	9		4.5	65	87	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	70	53	48	4	19	*	62	82	*
Camden Square	110	bc	c	*	71	63	50	2	13	*	*	81	*
Kensington	80	bc	bc	*	72	53	48	1	11	4.0	At 18h. 73	69	*
Hampstead Observatory	450	bcortl	or	orbcm	68	51	50	7	1	3.4	*	90	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 2nd

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
<0.3 whole period			

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

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 1st August. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 2nd August. 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	1022.7	W	3	c	68	1023.3	WNW	3	c	61	70	59	-	Tr
Brussels	1021.4	SW	3	c	63	1019.3	WSW	3	c	59	66	*	-	*
Berlin	1019.0	W	3	c	70	1019.2	SW'S	2	Z₀	61	75	59	-	Tr
Zurich	*	*	*	c	68	1022.7	NW	1	bc	61	73	59	-	-
Rome	1018.0	SSW	1	b	77	1016.5	ENE	1	c	68	*	*	-	-

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 3rd August, 1939.
No. 28378

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

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)	1019·1	-6	SW'S	3	c	64	65	8	8	6	8	4-6	9	4000
	Croydon	1019·3	-10	SW	2	c/pr	63	75	8	3	7	-	4-6	9+	4000
	S. Farnborough	1019·1	-10	WSW	3	c	65	65	8	7	3	-	4-6	9	2500
	Boscombe Down	1019·6	-12	W	3	c	62	75	8	7	-	-	9+	9+	2500
	Calshot (Sotoii.)	1020·1	-10	SW'S	5	c	67	65	8	8	8	8	2-3	7-8	2500
	Lympne	1019·5	-8	W'S	2	PR	65	65	8	9	6	8	4-6	9+	1500
	Manston	1019·1	-8	W'S	3	c/pr	69	55	7	8	7	3	7-8	9+	1500
2	Shoeburyness	1018·7	-10	SW	3	c	67	65	8	8	7	8	4-6	9+	4000
	Felixstowe	1018·8	-2	W'N	3	c	68	55	8	2	-	7	7-8	10	1500
	Gorleston	1017·5	-2	WNW	3	c	65	75	6	8	-	-	9+	9+	2500
	Mildenhall	1017·5	-10	W	3	c	67	65	8	8	7	-	4-6	9+	2500
	Cranwell	1016·5	-8	WSW	3	zo	63	85	6	8	7	-	9	10	2500
3	Birmingham	1017·6	-10	WSW	3	c	62	55	8	8	2	-	4-6	10	2500
	Upper Heyford	1018·3	-14	W'S	4	c/pr	66	65	8	9	7	6	7-8	9+	1500
4	Ross-on-Wye	1018·3	-6	SW'S	3	c	61	65	7	8	7	-	4-6	10	2500
5	Hartland Point	1019·4	-12	NW	4	c	59	85	8	8	2	-	7-8	9+	1500
	Bristol	1019·8	-6	W'S	3	c	61	75	8	5	7	-	2-3	9+	2500
	Portland Bill	1020·6	-6	WSW	4	c	60	85	8	5	4	-	4-6	10	4000
	Plymouth	1020·9	-8	WSW	3	pr	59	85	7	8	7	-	9+	10	1500
	The Lizard	1021·9	-6	SW	3	c	62	92	8	8	4	-	7-8	9+	2500
	Scilly (St. Mary's)	1021·6	-2	W	3	c	62	92	8	8	7	-	4-6	9+	1500
	Guernsey	1022·5	-6	W'S	4	c	63	75	9	2	7	8	4-6	7-8	2500
6	Pembroke	1019·3	-10	WN	5	c	59	92	8	8	2	-	4-6	9+	1500
7	Holyhead	1015·9	-12	SW	4	iro	57	85	8	6	2	-	4-6	10	1500
	Chester (Sealand)	1016·6	-8	SW	2	c/r	59	75	7	5	2	-	9	10	4000
8	Manchester	1016·4	-10	SW'W	3	roro	59	75	7	5	2	-	4-6	10	2500
10	Spurn Head	1016·1	-2	W'S	3	c	65	65	6	9	3	-	4-6	10	800
	Catterick	1014·6	-10	W'S	3	pr	59	75	8	8	7	-	4-6	10	1500
	Tynemouth	1013·8	-12	ESE	2	pr	60	85	6	8	-	-	9	9	1500
11	St. Abbs Head	1011·9	-12	SSW	3	c/r	60	65	8	8	6	-	7-8	9+	2500
	Leuchars	1011·6	-14	S	2	iro	57	85	7	5	1	-	9	10	1500
12	Renfrew (Abbotsl.)	1011·8	-12	SW	3	c/r	59	75	7	9	7	-	7-8	10	1500
	Eskdalemuir	1012·3	-10	SW'S	4	ir	54	85	6	6	2	-	4-6	9+	800
	Point of Ayre	1013·9	-10	W	5	c	61	85	8	8	6	-	4-6	7-8	1500
13A	Tiree	1008·1	-16	WSW	4	c	60	85	8	8	3	-	4-6	7-8	1500
13B	Stornoway	1010·5	-6	SSE	3	c/pr	58	85	8	8	7	-	7-8	9+	2500
15	Dalwhinnie	1010·9	-16	SSW	3	c	56	75	7	4	2	-	7-8	9+	4000
	Aberdeen	1011·2	-8	SW'S	2	c/pr	60	75	8	2	7	-	1	9+	2500
	Wick	1010·7	-2	S	2	c	56	85	8	5	7	8	4-6	9+	1500
16	Lerwick	1011·0	-2	S'E	4	c/r	54	97	8	8	7	-	7-8	9+	800
17	Blacksod Point	1014·3	-6	W	4	iR	57	97	7	6	-	-	10	10	<150
18	Malin Head	1010·7	-6	W	5	bc	59	75	8	3	4	-	2-3	4-6	5700
	Aldergrove	1012·7	-14	SW'S	4	iro	56	92	7	5	-	-	10	10	800
19	Birr Castle	1016·7	-8	WSW	2	ir	56	92	7	6	2	-	4-6	10	800
20	Valentia Obsy.†	1020·1	-6	W	5	c	59	85	8	5	-	-	10	10	1500
	Roches Point	1018·9	-10	WNW	3	c	61	75	9	8	1	-	4-6	9+	1500

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

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)	1016·9	-10	WSW	2	c	63	65	8	8	-	-	9+	9+	2500	1	*
Croydon	1017·3	-10	SW'W	2	c	64	65	8	6	7	-	4-6	9+	2500	1	*
S. Farnborough	1017·2	-10	SW	4	c	61	75	8	7	7	7	7-8	10	4000	1	*
Boscombe Down	1017·3	-12	SW'W	3	c	59	85	8	5	1	-	7-8	9+	2500	1	*
Calshot (Sotoii.)	1018·2	-12	SW'W	4	c⊕	61	85	7	9	3	7	7-8	10	1500	0	1
Lympne	1018·0	-10	SW'W	3	c	59	85	8	5	7	8	4-6	9+	5700	0	§3
Manston	1017·5	-8	SW	3	iro	61	75	8	5	7	-	9	9+	4000	1	*
Shoeburyness	1017·1	-8	SSW	4	c	63	85	8	8	-	-	9+	9+	4000	0	*
Felixstowe	1016·9	-6	WSW	4	iro	62	75	6	6	2	-	9+	10	800	1	2
Gorleston	1016·0	-4	SSW	1	c/pr	61	65	6	8	-	-	10	10	2500	1	1
Mildenhall	1015·8	-8	WSW	3	iro	59	85	6	5	-	-	10	10	1500	1	*
Cranwell	1014·4	-16	SW	3	pr	59	75	7	5	2	-	9	10	1500	1	*
Birmingham	1015·7	-16	SW	2	c	56	92	8	9	7	-	7-8	10	1500	1	*
Upper Heyford	1016·8	-10	W'S	3	c/r	59	85	9	6	8	6	4-6	10	1500	1	*
Ross-on-Wye	1016·0	-12	W'S	3	c	60	75	7	5	1	-	7-8	10	1500	0	*
Hartland Point	1017·3	-12	NW	4	c/pr	59	85	8	8	2	-	7-8	9+	1500	1	3
Bristol	1017·7	-6	W	4	pr	59	75	8	5	7	-	7-8	10	1500	1	*
Portland Bill	1018·0	-16	SW	5	c	59	92	8	5	-	-	10	10	4000	1	4
Plymouth	1018·5	-14	W'S	3	c	61	75	8	7	-	7	2-3	10	2500	1	1
The Lizard	1019·7	-14	SW	4	c	58	97	8	8	2	-	7-8	10	2500	1	3
Scilly (St. Mary's)	1019·3	-14	W'S	4	c	59	92	8	4	1	7	2-3	10	2500	0	2
Guernsey	1020·6	-12	WSW	4	c	59	85	8	8	3	4	4-6	7-8	4000	0	2
Pembroke	1016·4	-16	W'N	5	roro	58	92	8	8	2	-	4-6	10	1500	1	3
Holyhead	1013·0	-20	SW	3	rr	56	97	7	6	2	-	7-8	7-8	450	1	2
Chester (Sealand)	1014·0	-18	SW	2	iro	58	85	6	6	2	-	7-8	10	1500	1	*
Manchester	1013·8	-16	SW	3	pr	57	92	7	8	-	-	10	10	1500	1	*
Spurn Head	1014·0	-10	SW'W	3	c/pr	60	75	7	5	-	-	10	10	1500	1	2
Catterick	1011·9	-16	SW'W	1	c	58	85	8	8	7	-	7-8	9+	1500	1	*
Tynemouth	1011·2	-8	W	2	c/pr	60	75	6	8	-	-	9	9	1500	1	1
St. Abbs Head	1010·4	-12	SSW	2	RR	54	92	7	3	2	-	9	10	1500	0	1
Leuchars	1009·4	-6	SE	2	c/r	57	92	8	9	2	-	9	9+	1500	1	*
Renfrew (Abbotsl.)	1009·3	-14	SW'N	3	c	57	75	8	8	3	6	4-6	7-8	2500	1	*
Eskdalemuir	1009·6	-14	SW'S	3	c	55	85	6	5	7	-	7-8	9	800	1	*
Point of Ayre	1011·0	-20	W'S	5	c	57	92	8	8	7	3	4-6	9+	1500	1	3
Tiree	1008·0	+2	NW'N	2	bc	58	85	8	2	6	-	4-6	4-6	2500	0	2
Stornoway	1010·1	0	NE	2	c	56	85	8	8	5	-	2-3	7-8	2500	1	1
Dalwhinnie	1009·1	-10	SSW	3	c	52	85	7	4	6	-	4-6	9+	4000	1	*
Aberdeen	1009·7	-6	S	3	c	57	85	6	6	9	-	2-3	9	450	1	1
Wick	1009·3	-4	E	2	bc	55	92	8	8	7	1	2-3	4-6	2500	1	1
Lerwick	1011·0	-2	S'E	4	c	57	85	8	8	2	-	4-6	7-8	1500	0	*
Blacksod Point	1012·4	-16	NW	3	c	55	97	7	6	-	-	9+	9+	220	2	3
Malin Head	1009·5	-4	W	5	c	57	75	7	2	8	-	4-6	7-8	2500	1	3
Aldergrove	1010·6	-8	WSW	3	c	57	85	8	5	2	-	9	9+	4000	1	*
Birr Castle	1013·8	-14	WSW	2	rr	56	97	7	6	2	-	7-8	10	800	1	*
Valentia Obsy.†	1016·7	-26	W'S	4	roro	57	92	6	6	-	-	10	10	800	1	3
Roches Point	1016·1	-14	W	3	roro	59	85	7	6	2	-	7-8	10	1500	1	2

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)	cmo⊕c	c	cprocroro	rororr
Croydon	cmo⊕pro	cpro⊕	prorrroro	rorrRr
S. Farnborough	c1propRc	procf⊕c	cRroro	Rrrmoc
Boscombe Down	cbcc	c	ccroro	crrmororomo
Calshot (Sotoii.)	ccproc	c	ciroroo	rodrrriR
Lympne	cmo⊕c	cPRproc	croro	crorrfrmo
Manston	cmopro y	cmo ypro	crororrmo	crrmoc
Shoeburyness	c⊕cmoc	cciroc	cpc	rrc
Felixstowe	ccf	cproiro	ciroc	crorormo
Gorleston	bccprozo	cpro	cproc	cproroo
Mildenhall	cmoc	cproidroro	crororo	croro RR
Cranwell	cprocz o	cciro zo	cprdodomo	cRrrmo
Birmingham	c	corro	coror	roo
Upper Heyford	ccproc	ccrocro	cirocroromo	rrroromo
Ross-on-Wye	c	c	cpocrr	rrcpoc
Hartland Point	poc	cpo	ororr	crrp
Bristol	ciroc	c	cprror	crrroro
Portland Bill	c	c	orr	R
Plymouth	crobccpro	c	cirorrmo	rrroroc
The Lizard	cbcpr	c	crr	rrc
Scilly (St. Mary's)	cidoc	c	cdrro	croirpo
Guernsey	c	cbcc	co	orr
Pembroke	cpro	croro	crrRRoc	iroc
Holyhead	crrroc	crrc	rrRRc	cbc
Chester (Sealand)	cmoro	cromo	crrmo	crrRRmo
Manchester	cmocro	croropr	rororrmo	ccprbc
Spurn Head	cpr	cpro	iroc	rrc
Catterick	cpropr	cproc	crororr	orrroro
Tynemouth	cpotl	cPcp	cp	coirrr
St. Abbs Head	rorc	cRr	c	proc
Leuchars	cproPRciro	crorocPRiro	cbcc	comc
Renfrew (Abbotsl.)	cirorriro	cirmoc	cbcmfgw	bcfgff
Eskdalemuir	cpirordir	ciridiro	irobc	bccpro
Point of Ayre	ciroc	cpr	cprc	crrbc
Tiree	iRc	cbc	bccR	c
Stornoway	croro	cPR	bc	bcc
Dalwhinnie	cir	ciR	•	cir
Aberdeen	cbccpro	cczo	w	zoc
Wick	c	cirbc	bcc	cmo
Lerwick	cir	c	c	cbc
Blacksod Point	iR	iR	bc	proc
Malin Head	cirobc	bcprbcc	cprbccpr	c
Aldergrove	ciroir	ciroc	procbc	bcciroc
Birr Castle	cirir	cirrr	cprc	c
Valentia Obsy.†	cproc	prororo	rrRirc	cbcc
Roches Point	c	prororo	crrc	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.*

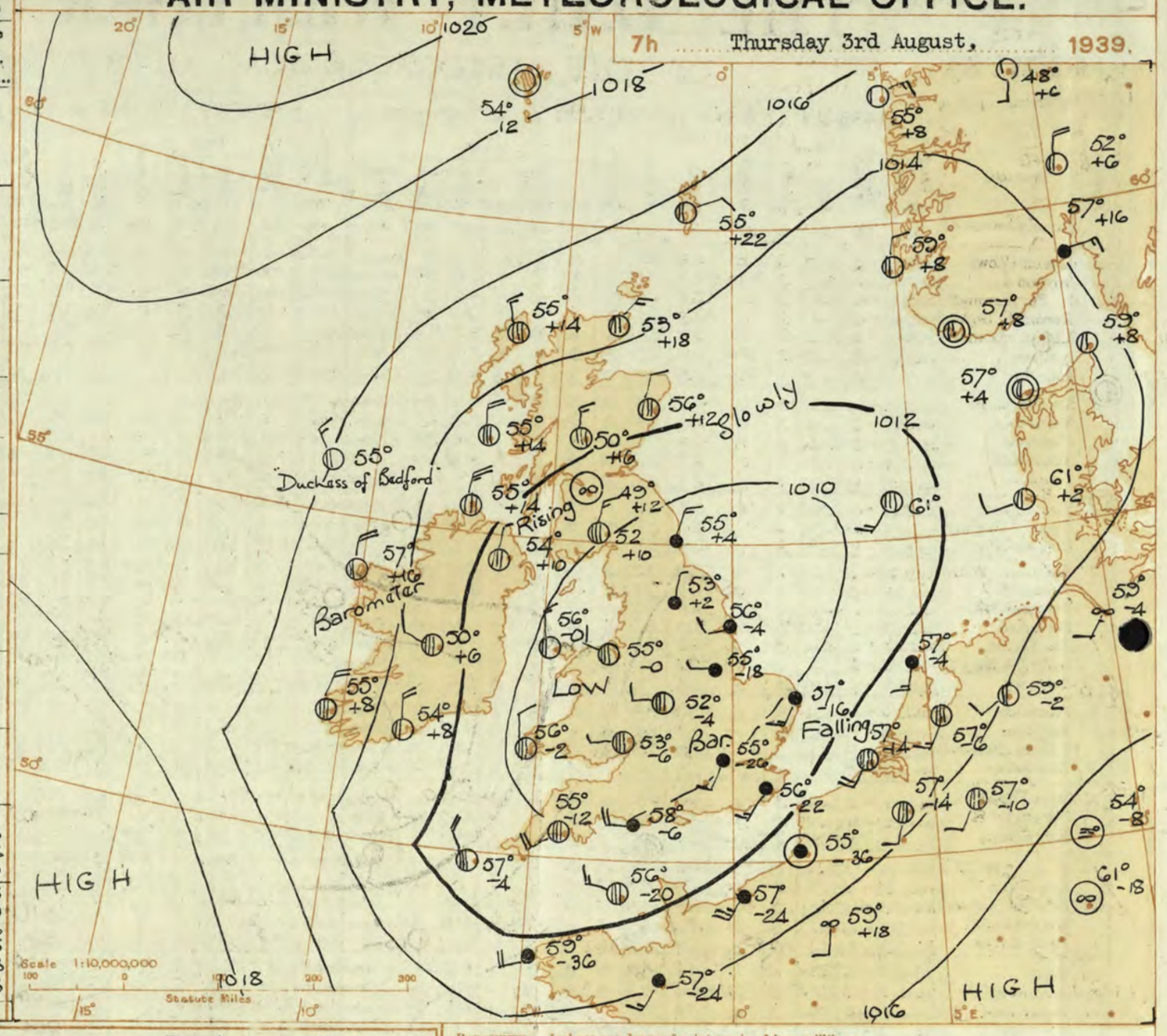
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 2nd August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 1st to 9h. 2nd	Temperature. (°F) Max. 9h.—17h. 2nd	Rainfall. (mm.) Night. 17h. 1st to 9h. 2nd	Rainfall. (mm.) Day. 9h.—17h. 2nd	Sunshine. (Hrs.) Sunrise to 17h. 2nd	Sunshine. (Hrs.) Sunrise to Sunset. 1st
1	Tunbridge W.	c	cor.c	48	67	–	Trace	2·7	2·7
	Bournemouth	cbc	co	52	67	–	–	2·1	1·5
	Ventnor ...	ocbc	bco	60	64	–	–	4·0	4·1
	Southsea ...	cbc	cbcc	54	67	–	Trace	3·0	2·9
	Bognor Regis	cbc	bcc	52	65	–	Trace	2·4	3·3
	Littlehampton	bcc	cbcc	51	65	–	–	2·7	3·2
	Worthing ...	cbcc	cbcc	52	67	–	–	2·6	3·3
	Brighton ...	cbc	bcc	53	65	–	–	2·7	2·7
	Eastbourne† ...	c	cbcc	55	65	Trace	–	3·3	3·3
	Hastings† ...	cbcc	bcc	52	68	–	–	3·5	2·4
	Folkestone ...	c	cpoco	53	66	Trace	4	2·0	1·8
	Dover ...	oc	coroc	54	67	0·5	7	2·2	1·9
	Deal	bccp	c	53	67	–	Trace	2·9	2·4
	Ramsgate ...	cp	c	54	68	1	Trace	2·2	3·6
	Margate ...	cd.	cbcc	55	65	–	Trace	1·3	2·3
2	Southend ...	cmc	*	54	72	1	Trace	3·6	4·2
	Clacton-on-Sea	bcc	cbcc	53	67	3	–	3·7	3·7
	Dovercourt ...	bcroc	bcroc	53	66	4	Trace	5·1	4·7
	Lowestoft ...	cbc	ccpr	51	68	3	0·2	5·0	4·2
	Skegness ...	bco	or.o	50	66	0·3	Trace	2·7	4·0
	Mablethorpe...	bcop	o	50	68	–	Trace	3·4	3·9
	Cleethorpes ...	bc	berc	52	66	7	Trace	4·2	5·4
3	Leamington S.	cp	cpo	51	65	1	0·4	0·7	5·5
4	Cheltenham†	c	cp.c	53	65	Trace	Trace	0·7	6·6
5	Bath	c	c	54	64	0·3	–	0·5	4·2
	Weymouth ...	cb	c	55	65	–	–	2·0	2·9
	Jersey ...	bcc	bcc	56	65	Trace	–	6·1	1·1
	Torquay ...	wcbc	c	53	66	–	–	1·3	4·8
	Falmouth ...	ocvr.	c	54	66	–	Trace	3·9	6·3
	Penzance ...	bcc	c	54	66	–	–	4·9	5·9
	St. Ives ...	c	c	55	65	–	0·3	4·5	5·6
	Bude... ...	cp.	cp.c	59	62	–	Trace	1·5	4·7
	Ilfracombe ...	cor	pbcco	56	62	Trace	Trace	0·7	6·1
6	Aberystwyth	c	prc	57	60	–	2	0·0	4·1
7	Llandudno ...	cr.	cir	56	60	1	1	0·0	6·9
	Colwyn Bay...	c	cpcor	56	61	1	1	0·0	3·6
	Rhyl	cr.	cr.or	55	63	1	1	0·1	5·1
8	Wallasey ...	p.c	crc	57	61	Trace	0·5	0·1	7·3
	Southport ...	cbcco	rrcp.	56	62	Trace	2	0·2	5·3
	Blackpool ...	c	orpc	57	61	Trace	3	0·0	4·6
	Morecambe ...	bcc	cd	57	61	–	1	0·6	4·0
9	Ilkley... ...	oropc	orcbc	53	63	2	1	2·0	5·5
	Harrogate ...	cp	cp.	53	62	0·3	1	2·9	4·9
10	Berwick-on-T.	cir.o	ir.c	49	61	0·3	5	2·6	7·6
11	Dunbar ...	cm.	cpr	51	60	–	9	1·4	10·5
12	Troon... ...	rcorrcbc		54	57	3	5	0·7	3·8
	Douglas ...	op	o	52	57	2	1	0·0	4·3

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

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. 3rd August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind variable, becoming northerly, moderate. Cloudy and rainy at first, brighter intervals, but chance of thunder later; cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Wind northerly, moderate. Bright intervals, but showers, perhaps with thunder locally; cool.
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 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind northerly, moderate. Mainly fair, but some showers locally, perhaps with thunder. Cool.

GENERAL INFERENCE.

A depression centred over the Humber is moving south-south-east and will cause continuous rain at first in Eastern England. Behind it a developing ridge of high pressure will give brighter conditions, but with local thundery showers.

FURTHER OUTLOOK.

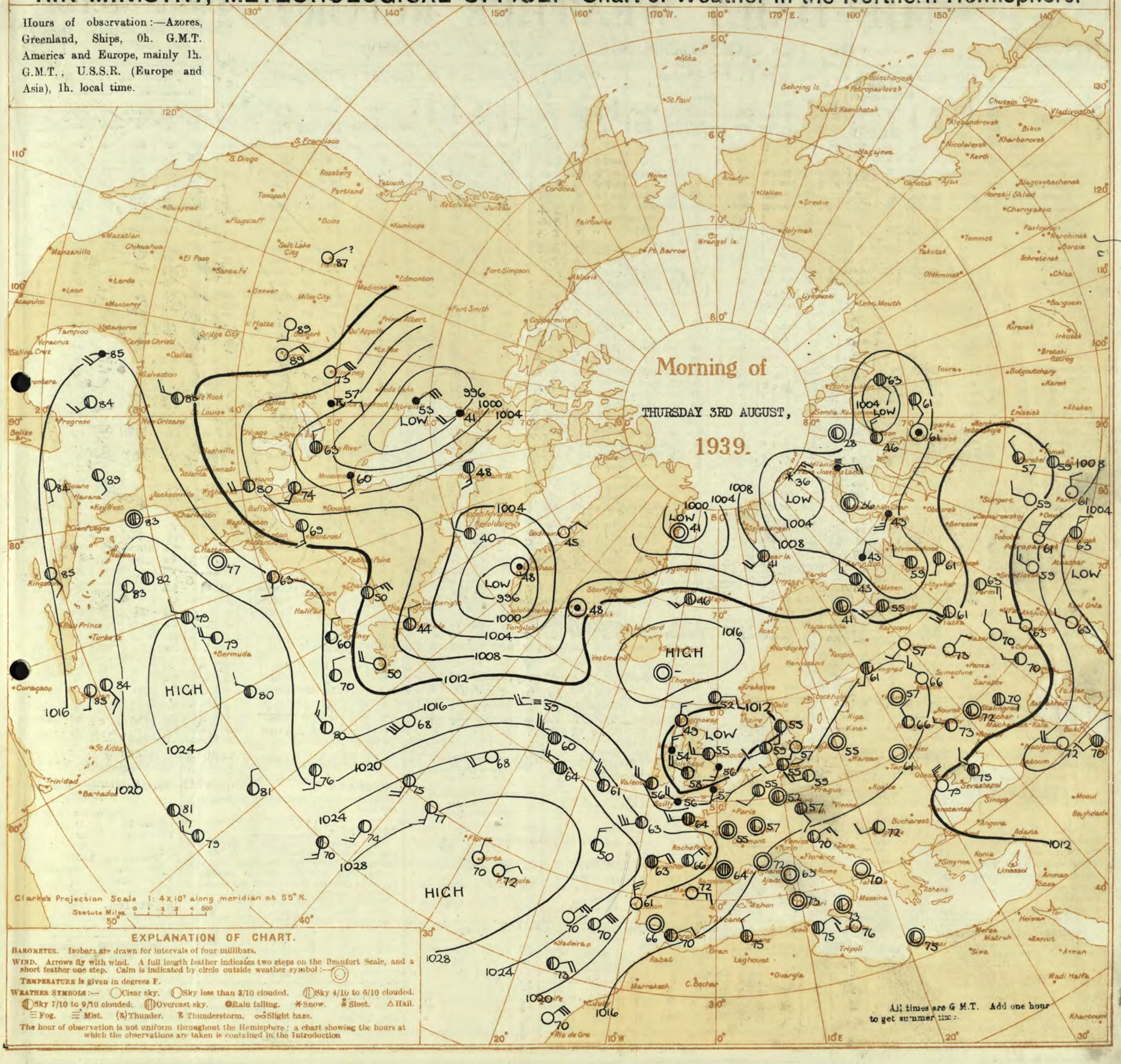
Unsettled.

Forecasts issued at 0930 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Thursday 3rd August, 1939.
No. 28378

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

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	-18	SSW	2	r_0r_0	57	97	8	6	2	-	2-3	10	4000
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1013.7	-22	SWS	2	r_0r_0	55	97	7	6	2	-	9+	10	1500
	Calshot (Sthmtn.)	8	1014.1	-26	WSW	3	r_0r_0	58	92	7	5	2	-	7-8	10	800
	Lympne	346	1015.4	-14	SW	2	r_0r_0	56	97	7	5	2	-	9	10	4000
	Manston	154	1014.7	-16	SSW	2	rr	57	97	6	5	-	-	10	10	5700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1013.3	-10	SSW	2	c	59	75	7	8	-	-	10	10	2500
	Mildenhall	19	1012.5	-16	SW	2	ir_0	56	97	7	5	2	-	7-8	10	4000
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012.7	-24	W	3	rr	56	92	7	-	2	-	10	10	800
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1014.5	-29	WSW	4	rr	58	92	7	5	4	-	10	10	2500
	Plymouth	82	1013.9	-30	WSW	4	rr	57	97	6	6	2	-	10	10	800
	The Lizard	240	1015.0	-26	SW'W	4	rr	55	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1014.7	-24	WNW	4	r_0r_0	56	97	7	6	2	-	7-8	10	1500
	Guernsey	175	1016.3	-12	W'S	4	c	57	97	8	9	2	-	7-8	10	800
6	Pembroke	142	1012.1	-8	W'N	2	r_0r_0	54	97	7	8	2	-	4-6	10	1500
7	Holyhead	26	1010.0	-8	W'N	4	c	58	92	8	6	2	-	9+	10	800
	Chester (Sealand)	16	1010.3	-8	-	0	r_0r_0	54	92	6	6	2	-	9	10	2500
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1011.1	-12	SW'S	3	ir_0	56	92	6	5	-	-	10	10	1500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1009.4	-10	W	3	c/pr	55	92	6	8	-	-	9	9	1500
11	St. Abbs Head	280	1009.2	-4	NW	2	c	55	85	8	8	6	-	7-8	10	1500
	Leuchars	36	1009.6	+6	W	1	c	51	92	7	5	3	-	7-8	9	2500
12	Renfrew (Abbots I.)	19	1010.2	+2	W	1	fg	47	97	4	-	3	-	0	4-6	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1009.6	-6	NNE	4	c	55	92	8	8	3	-	4-6	7-8	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1012.0	+10	N	3	bc	49	92	8	5	-	-	2-3	2-3	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1010.7	+6	ENE	2	c	53	97	7	5	3	-	2-3	7-8	2500
16	Lerwick	156	1013.4	+2	E	2	c	52	97	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	18	1012.6	+6	NW	3	bc	53	92	8	3	-	-	4-6	4-6	800
18	Malin Head	84	1010.7	+8	N	3	pr	54	92	7	9	-	-	7-8	7-8	2500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1014.1	-2	WNW	4	c/r	56	97	7	5	-	-	9+	9+	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1009.1	-20	SW	2	rr	57	92	6	6	2	-	7-8	10	800	1	*
Croydon	1009.6	-26	S'W	2	rr	55	97	6	6	2	-	4-6	10	800	1	*
S. Farnborough	1008.9	-18	SSW	2	r_0r_0	55	97	6	6	2	-	9	10	800	1	*
Boscombe Down	1009.2	-16	W'S	2	r_0r_0	53	97	6	6	2	-	9	10	800	1	*
Calshot (Sthmtn.)	1009.2	-24	WSW	3	iR	56	92	6	6	2	-	9+	10	220	2	2
Lympne	1011.1	-22	SSW	3	r_0r_0	56	97	6	6	2	-	9	10	800	1	§3
Manston	1010.3	-20	S	2	c/r	57	92	6	5	7	-	7-8	10	800	1	*
Shoeburyness	1009.8	-20	S'W	3	r_0r_0	57	97	6	6	2	-	4-6	10	800	1	*
Felixstowe	1010.1	-16	SW'W	3	r_0r_0	58	85	6	6	2	-	9	10	800	1	2
Gorleston	1010.0	-16	S'W	3	r_0r_0	57	92	6	6	-	-	10	10	1500	1	2
Mildenhall	1008.8	-14	S'E	2	r_0r_0	56	97	6	6	2	-	4-6	10	1500	1	*
Cranwell	1008.8	-8	W	1	r_0r_0	55	97	6	5	2	-	4-6	10	800	1	*
Birmingham	1008.8	-4	W	2	o	52	92	5	6	-	-	10	10	800	1	*
Upper Heyford	1009.3	-10	W'N	2	r_0r_0	53	97	6	9	2	-	4-6	10	800	1	*
Ross-on-Wye	1009.1	-6	W'S	1	c/pr	53	97	8	8	-	-	9	9	1500	1	*
Hartland Point	1009.7	+2	WNW	2	c	55	92	8	8	2	-	7-8	9+	1500	1	3
Bristol	1009.6	-10	WSW	2	c/r	53	97	7	5	2	-	7-8	9+	1500	1	*
Portland Bill	1009.2	-6	W	4	rr	58	92	7	5	-	-	10	10	2500	1	3
Plymouth	1010.1	-12	SW'W	4	c/r	55	97	7	6	9	-	4-6	9+	1500	1	1
The Lizard	1010.7	-12	W'N	4	c	57	97	8	8	6	-	7-8	7-8	2500	1	2
Scilly (St. Mary's)	1011.1	-4	NW'N	4	c/pr	57	97	8	8	-	-	9+	9+	1500	1	3
Guernsey	1010.8	-20	W'N	3	c/r	56	97	7	8	3	-	4-6	10	220	1	3
Pembroke	1009.9	-2	NNW	2	c	56	97	8	8	-	-	7-8	7-8	2500	1	2
Holyhead	1009.2	0	NNW	3	bc	56	85	8	2	4	-	2-3	2-3	2500	1	2
Chester (Sealand)	1008.9	0	WNW	2	c/pr	55	85	7	8	3	-	7-8	9	1500	1	*
Manchester	1008.4	-4	NW	1	pr	54	92	6	8	9	-	4-6	7-8	1500	1	*
Spurn Head	1008.3	-4	W'S	2	ir_0	56	92	6	5	-	-	10	10	800	1	1
Catterick	1008.1	+2	N'E	1	r_0r_0	53	97	5	6	2	-	9	10	800	1	*
Tynemouth	1008.8	+4	NNE	3	r_0r_0	55	97	5	-	2	-	10	10	1500	1	1
St. Abbs Head	1010.0	+10	NNW	2	c/pr	55	92	8	5	2	-	7-8	10	2500	0	1
Leuchars	1011.1	+10	N	2	c	55	97	7	5	2	-	9	10	800	1	*
Renfrew (Abbots I.)	1011.7	+12	-	0	z_0	49	97	5	5	-	-	9+	9+	1500	1	*
Eskdalemuir	1010.0	+10	NNE	3	c/pr	52	92	6	5	-	-	9+	9+	800	1	*
Point of Ayre	1009.5	+2	NNE	3	bc	56	85	8	8	-	-	4-6	4-6	1500	1	2
Tiree	1012.4	+14	N	4	c	55	85	8	5	3	-	4-6	7-8	2500	0	3
Stornoway	1014.3	+19	NNW	3	c	55	97	8	5	7	-	7-8	9+	4000	1	2
Dalwhinnie	1012.9	+16	N	3	c	50	97	5	6	-	-	10	10	1500	1	*
Aberdeen	1012.1	+12	NNE	2	c	56	92	7	5	3	-	9	9+	1500	1	1
Wick	1014.2	+18	NE	3	c	53	97	8	5	7	8	4-6	9+	1500	1	1
Lerwick	1016.3	+22	ENE	2	bc	55	85	8	5	4	-	2-3	4-6	2500	0	*
Blacksod Point	1014.9	+16	N	4	bc	57	85	8	3	-	-	4-6	4-6	800	1	3
Malin Head	1012.7	+14	N	5	c	55	85	8	2	6	-	2-3	7-8	5700	1	3
Aldergrove	1011.0	+10	N	1	c	54	92	8	8	-	-	9+	9+	1500	1	*
Birr Castle	1012.6	+6	W'N	2	c	50	97	8	5	-	-	10	10	2500	1	*
Valentia Obsy. †	1015.5	+8	N'E	4	c	55	85	8	5	-	-	9	9	1500	1	3
Roches Point	1013.2	+8	NNW	4	bc	54	92	8	5	-	-	2-3	2-3	2500	1	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 2nd Hrs. (36)
London (Kew)	67	57	55	-	14	2.0
Croydon	68	55	54	Tr	7	1.6
S. Farnborough	67	54	54	1	12	1.6
Boscombe Down	64	53	53	-	9	1.8
Calshot (Sthmtn.)	68	56	55	Tr	22	1.9
Lympne	66	55	53	4	5	2.3
Manston	69	56	53	Tr	6	2.7
Shoeburyness	70	55	54	Tr	6	3.6
Felixstowe	69	57	56	0.3	2	5.3
Gorleston	61	57	56	0.6	2	4.2
Mildenhall	68	55	54	0.6	7	3.8
Cranwell	64	53	53	Tr	10	2.4
Birmingham	62	51	50	2	8	0.2
Upper Heyford	66	53	53	Tr	10	*
Ross-on-Wye	64	52	51	-	4	0.6
Hartland Point	62	52	51	0.5	14	0.5
Bristol	63	53	51	0.2	8	0.5
Portland Bill	61	56	*	-	8	*
Plymouth	62	54	52	Tr	6	1.8
The Lizard	62	53	*	0.1	4	6.1
Scilly (St. Mary's)	65	55	*	0.2	4	5.8
Guernsey	64	54	54	-	6	5.7
Pembroke	60	53	*	7	15	0.1
Holyhead	58	53	51	5	12	0.0
Chester (Sealand)	64	53	52	0.2	11	0.1
Manchester	63	50	49	1	5	0.4
Spurn Head	66	55	*	0.1	3	4.3
Catterick	61	52	52	1	10	1.0
Tynemouth	62	53	52	6	7	3.0
St. Abbs Head	61	51	*	4	5	*
Leuchars	61	49	41	4	-	1.4
Renfrew (Abbots I.)	62	43	40	2	-	1.8
Eskdalemuir	58	46	42	3	1	0.3
Point of Ayre	61	54	*	1	2	0.6
Tiree	61	53	51	2	2	6.6
Stornoway	59	47	*	9	-	2.7
Dalwhinnie	58	44	34	7	0.6	0.9
Aberdeen	62	53	48	Tr	-	4.6
Wick	60	53	*	0.3	-	*
Lerwick	57	50	*	Tr	-	4.8
Blacksod Point	60	51	*	12	0.3	*
Malin Head	60	52	*	5	2	5.1
Aldergrove	62	50	46	3	0.5	1.0
Birr Castle	57	45	35	10	8	0.0
Valentia Obsy. †	59	53	47	1	9	0.0
Roches Point	62	53	*	0.4	6	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cm_0⊕c	c	$cpr_0r_0r_0rr$	67	57	55	-	14	2.0	•	•	7
Croydon	217	cm_0⊕pr_0	epr_0⊕	$pr_0r_0r_0Rr$	68.	55	54	Tr	7	1.6	•	•	7
Greenwich (Royal Observatory)	149	c	c	crr	69	55	54	-	8	1.9	60	95	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	*	•	•	•
Westminster (St. James' Park)	27	•	•	•	67	56	56	14		2.4	69	99	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	67	56	53	-	13	1.8	64	94	•
Camden Square	110	c	c	•	67	56	55	-	13	*	•	94	•
Kensington	80	cr	c	•	69	56	55	-	14	2.6	At 18h 59	94	•
Hampstead Observatory	450	bcp	c	cor	65	54	53	Tr	16	2.2	•	98	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.			
Max.	Time.	Min.	Time.
<0.3 whole period			

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

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 2nd August Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 3rd August 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	1020.1	W	2	c	68	1014.1	S	2	z_0	59	70	55	-	-
Brussels	1018.2	WSW	3	bc	64	1013.6	S	2	c	57	68	54	-	-
Berlin	1016.0	SSW	2	c	69	1016.8	W	1	c	61	73	57	0.4	Tr
Zurich	1019.4	NW	3	c	70	1015.9	S	1	z_0	61	77	55	-	20
Rome	1013.9	WNW	3	b	75	1014.5	SE	2	b	72	*	*	-	-

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 4th August, 1939.

No. 28379

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

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)...	1007.7	0	NW	1	roro	57	85	6	9	2	–	7-8	10	800
	Croydon	1008.2	0	NW	1	rr	56	92	6	9	2	–	9	10	1500
	S. Farnborough	1007.5	-6	NW	2	c/r	59	75	8	8	3	–	9	9+	1500
	Boscombe Down	1008.4	-2	NNW	3	pr	55	85	8	3	6	3	9	9+	2500
	Calshot (Soton.)	1008.1	-4	NW	2	pr	61	75	8	8	8	1	4-6	4-6	1500
	Lympne ...	1008.3	-14	SW'S	3	rr	57	97	7	6	2	–	7-8	10	1500
	Manston ...	1007.8	-10	S	3	roro	59	92	6	6	2	–	7-8	10	1500
2	Shoeburyness ...	1007.4	-8	S	3	roro	60	92	7	5	2	–	7-8	10	1500
	Felixstowe ...	1007.7	-6	S	4	iro	62	85	8	6	7	–	4-6	10	800
	Gorleston ...	1007.7	-10	SE	4	roro	60	92	6	6	–	–	10	10	1500
	Mildenhall ...	1007.2	-6	NNW	2	roro	59	92	7	6	2	–	7-8	10	1500
	Cranwell ...	1008.0	+2	N	1	roro	57	85	6	6	2	–	4-6	10	800
3	Birmingham ...	1007.9	-2	NNW	3	c	59	65	7	9	7	–	7-8	9+	1500
	Upper Heyford	1008.5	-2	N'W	2	c/d	59	75	6	8	7	–	7-8	10	1500
4	Ross-on-Wye ...	1008.2	0	NE	2	c	63	65	8	8	–	–	9	9	2500
5	Hartland Point	1010.5	+2	NW	3	c	57	85	9	8	4	–	4-6	7-8	1500
	Bristol	1009.1	0	NW'W	2	tlro	57	75	8	9	7	3	7-8	9	2500
	Portland Bill ...	1009.0	+8	WNW	3	c	62	85	8	5	4	–	4-6	7-8	4000
	Plymouth ...	1010.0	0	N	4	bc	62	65	9	8	3	–	4-6	4-6	2500
	The Lizard ...	1011.6	+12	WNW	5	bc	60	75	8	8	6	–	4-6	4-6	2500
	Scilly (St. Mary's)	1013.0	+8	N'W	4	bc	61	85	8	2	6	–	4-6	4-6	2500
	Guernsey ...	1009.7	-2	NW	3	bc	61	85	9	1	–	–	2-3	2-3	2500
6	Pembroke ...	1011.1	+2	NNW	3	bc	59	85	8	2	4	–	4-6	4-6	2500
7	Holyhead ...	1010.7	+10	NNW	4	c/pr	58	65	8	8	3	–	7-8	9	2500
	Chester (Sealand)	1009.0	+6	NNW	3	iro	58	85	7	8	2	–	4-6	9+	2500
8	Manchester ...	1008.7	+6	NW	2	c	59	75	7	8	7	–	4-6	10	2500
10	Spurn Head ...	1008.2	0	E	3	iro	59	85	7	6	2	8	4-6	10	800
	Catterick ...	1009.4	+10	NNE	4	zo	58	92	6	6	7	–	7-8	9+	800
	Tynemouth ...	1010.8	+10	NE	3	ir	56	97	6	–	2	–	10	10	1500
11	St. Abbs Head...	1012.9	+16	NNE	4	c/r	57	92	8	4	6	2	4-6	7-8	1500
	Leuchars ...	1014.2	+20	NE	4	c	61	85	8	8	7	–	9	9+	1500
12	Renfrew (Abbotsl.)	1013.5	+12	ENE	3	c	65	65	8	8	3	–	7-8	9	2500
	Eskdalemuir ...	1011.4	+10	NNE	5	c	59	75	8	8	–	–	7-8	7-8	1500
	Point of Ayre ...	1011.1	+8	NE'N	2	c	62	85	8	8	–	–	9+	9+	2500
13A	Tiree	1015.2	+10	N	4	b	60	65	8	1	4	–	Tr	1	4000
13B	Stornoway ...	1017.1	+10	NE	5	bc	59	85	8	1	–	–	2-3	2-3	4000
15	Dalwhinnie ...	1015.8	+16	NNE	4	c	56	75	7	4	6	–	4-6	10	4000
	Aberdeen ...	1016.2	+20	NE	3	bc	60	75	8	1	7	–	2-3	4-6	2500
	Wick	1017.8	+18	NE	3	bc	56	75	8	8	6	–	2-3	2-3	2500
16	Lerwick... ...	1016.2	-4	ENE	2	bc	57	75	8	8	–	–	4-6	4-6	2500
17	Blacksod Point...	1016.4	+6	N	5	bc	60	75	9	3	–	–	4-6	4-6	2500
18	Malin Head ...	1015.0	+10	N	4	bc	58	85	8	2	4	–	4-6	4-6	1500
	Aldergrove ...	1012.9	+10	NNE	4	bc	64	65	8	2	–	–	4-6	4-6	2500
19	Birr Castle ...	1014.1	+4	WNW	3	c	62	75	8	2	7	–	4-6	9+	1500
20	Valentia Obsy.†	1017.0	+4	N	4	bc	60	75	9	8	–	5	4-6	4-6	2500
	Roches Point ...	1014.0	+2	N	4	c	62	75	9	3	4	–	4-6	7-8	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1008.1	+2	N'W	3	bc	59	65	7	8	6	–	4-6	4-6	2500	1	*
Croydon	1008.0	+2	NW	1	c	59	75	7	3	6	–	4-6	7-8	4000	1	*
S. Farnborough	1007.5	0	NW	3	c	62	65	7	8	3	–	7-8	9	2500	1	*
Boscombe Down	1008.6	+2	NW'N	2	bc/r	57	85	7	2	4	3	2-3	4-6	2500	1	*
Calshot (Soton.)	1008.2	+2	NW	3	bct	60	75	8	3	8	3	2-3	4-6	1500	1	1
Lympne	1008.4	+2	SW'W	2	c	59	85	8	8	6	–	4-6	7-8	2500	1	§2
Manston	1007.1	+4	W'S	3	c	59	85	7	2	6	–	7-8	7-8	1500	1	*
Shoeburyness	1007.5	+2	W	2	c/r	57	97	7	2	3	–	4-6	9+	1500	1	*
Felixstowe	1007.0	-2	SSE	3	c/r	60	85	8	9	9	4	4-6	9	800	0	1
Gorleston	1008.1	+4	SE	3	iro	60	85	7	6	4	–	7-8	10	2500	1	2
Mildenhall	1007.3	+2	NE	1	roro	59	92	7	6	2	–	7-8	10	1500	1	*
Cranwell	1008.6	+8	NE	3	roro	57	97	6	5	7	–	7-8	9+	450	1	*
Birmingham	1008.9	+4	NNW	2	c/r	56	85	6	6	2	–	4-6	10	1500	1	*
Upper Heyford	1008.8	+6	NW	1	roro	56	85	6	–	2	–	10	10	1500	1	*
Ross-on-Wye	1008.9	+4	NW	2	c	59	75	8	5	8	–	4-6	9	2500	1	*
Hartland Point	1010.7	+4	NW	4	bc	58	85	8	8	4	–	4-6	4-6	1500	0	3
Bristol	1009.5	+6	WNW	3	pr	55	85	7	9	7	–	4-6	9	1500	1	*
Portland Bill	1009.0	+6	NNW	2	c	61	92	8	1	4	–	4-6	7-8	4000	1	3
Plymouth	1010.4	+2	NW	4	bc	61	65	9	8	8	–	4-6	4-6	2500	1	1
The Lizard	1011.9	+4	W'N	3	bc	59	85	8	8	6	–	4-6	4-6	2500	1	3
Scilly (St. Mary's)	1013.0	-2	NW'N	5	bc	61	85	8	2	6	4	4-6	4-6	2500	1	3
Guernsey	1009.7	0	WNW	3	bc	61	85	9	1	3	–	2-3	4-6	2500	0	3
Pembroke	1011.8	+4	N'E	4	c	58	85	7	8	6	–	7-8	9+	2500	1	2
Holyhead	1011.7	+10	N	4	c	59	85	7	5	3	–	7-8	9+	2500	1	3
Chester (Sealand)	1010.6	+14	N'W	2	c/pr	59	85	5	5	7	–	7-8	9+	2500	1	*
Manchester	1010.5	+20	NNE	3	c/r	59	85	6	5	7	–	4-6	7-8	2500	1	*
Spurn Head	1009.6	+4	NE'E	3	c/r	58	92	6	5	1	–	4-6	10	2500	2	2
Catterick	1012.2	+16	NNE	3	c/pr	58	85	6	9	7	–	7-8	9+	450	1	*
Tynemouth	1012.6	+12	NE	4	c	58	85	6	8	–	–	9+	9+	1500	1	2
St. Abbs Head	1015.9	+12	NNE	4	c	56	85	8	8	6	9	4-6	7-8	1500	0	3
Leuchars	1017.5	+18	NE	3	bc	58	75	9	8	3	–	4-6	4-6	1500	0	*
Renfrew (Abbotsl.)	1017.0	+24	ENE	3	c/pr	60	75	8	9	–	–	9	9	1500	1	*
Eskdalemuir	1014.4	+14	NE'N	5	pr	58	75	8	8	7	–	2-3	7-8	2500	1	*
Point of Ayre	1013.6	+16	E'N	5	c	60	85	8	8	–	–	9+	9+	2500	0	3
Tiree	1017.5	+16	N	3	bc	59	85	8	1	4	–	1	2-3	4000	0	3
Stornoway	1019.8	+8	NE	5	bc	58	85	9	2	5	–	4-6	4-6	4000	1	3
Dalwhinnie	1018.6	+20	NNE	3	c	55	75	7	4	6	–	4-6	9+	2500	0	*
Aberdeen	1018.9	+16	NE'N	3	c	56	75	8	5	–	–	9+	9+	4000	1	1
Wick	1019.9	+12	NE	3	b	56	85	8	7	6	–	1	1	2500	1	1
Lerwick	1017.4	+10	NE	2	bc	55	75	9	5	3	–	4-6	4-6	2500	0	*
Blacksod Point	1018.8	+12	N	5	bc	59	75	9	3	–	–	4-6	4-6	1500	0	3
Malin Head	1017.4	+14	N	4	bc	59	85	8	2	–	–	2-3	2-3	4000	0	3
Aldergrove	1015.3	+18	N	4	bc	64	65	9	2	3	–	2-3	4-6	2500	1	*
Birr Castle	1014.9	+10	NW	2	c	61	75	8	2	3	–	2-3	7-8	1500	1	*
Valentia Obsy.†	1018.3	+6	N'W	5	bc	60	75	8	2	–	9	1	2-3	2500	1	2
Roches Point	1014.8	+2	N	5	c	62	75	9	3	–	–	7-8	7-8	1500	1	2

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 3rd (37)	13h.—18h. 3rd (38)	18h. 3rd to 1h. 4th (39)	1h.—7h. 4th (40)
London (Kew)	crro	crrcpr	bccroroc	cmo
Croydon	crRrrm	rrroropro	bccdRdod	dodoiror
S. Farnborough	Rrroc	PRc	gfRr	cmodoroc
Boscombe Down	crorocirc	cprobctlrr	rbccrocmo	cirocmprom
Calshot (Soton.)	ciRrrroroc	ct⊕	bctbcc	cirido
Lympne	orrroR	cirroc	cmobcfgu	bfgfumo
Manston	crorom	crorom	cmomw	bmodwff
Shoeburyness	roriro	crororr	cprc	cbc
Felixstowe	croroiro	cprociro	cbc	ctlrRR
Gorleston	ororoiro	ororoiro	corrorrc	cproc
Mildenhall	croro	cirororo	crorir	ccirs
Cranwell	ccgiromo	croro	crorocmo	ccirdmoc
Birmingham	ocq	coroc	oRro	omir
Upper Heyford	croroido	cirororo	crorir	crorojrc
Ross-on-Wye	ccpc	cpocipc	orro	orodo
Hartland Point	c	cbc	bccb	c
Bristol	croctlro	ctlropr	crrroR	cdoirro
Portland Bill	c	ctlr	c	corr
Plymouth	cprobc	bcv	bcveproc	cirocmo
The Lizard	cprbc	bccbc	bcq	cprbc
Scilly (St. Mary's)	cpqbc	cpobc	bcb	bbc
Guernsey	cirbc	bc	bcb	crr
Pembroke	crobc	cbcc	bc	bccq
Holyhead	bcprc	proiroc	c	cbc
Chester (Sealand)	cproiro	iroproz	cmoiRiro	cmorozo
Manchester	bccmoc	rorogrmo	cmoc	c
Spurn Head	irc	rrc	iroc	prc
Catterick	rrorocmo	cprocmo	mprocmo	cororomo
Tynemouth	oir	oirc	cpc	c
St. Abbs Head	irc	bcc	c	c
Leuchars	c	cbccbc	bcc	cbc
Renfrew (Abbotsl.)	cmowc	cpropr		c
Eskdalemuir	bcpoPRc	cprirc	ciroc	c
Point of Ayre	bcc	cprc	cbc	bc
Tiree	bc	bbc	bcbw	bw
Stornoway	cbc	bc	bcb	bbcw
Dalwhinnie	c	cir	•	cir
Aberdeen	probc	bcc	c	cbc
Wick	cbc	bbc	bcb	bbcc
Lerwick	bc	bc	bc	bcw
Blacksod Point	bcq	bc	bc	bc
Malin Head	cbc	bc	bc	bc
Aldergrove	cbcc	cjpbc	bc	bcbjf
Birr Castle	c	c	cb	bbcc
Valentia Obsy.†	cbc	bc	bc	bc
Roches Point	bccv	cpocv	probc	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.

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.*

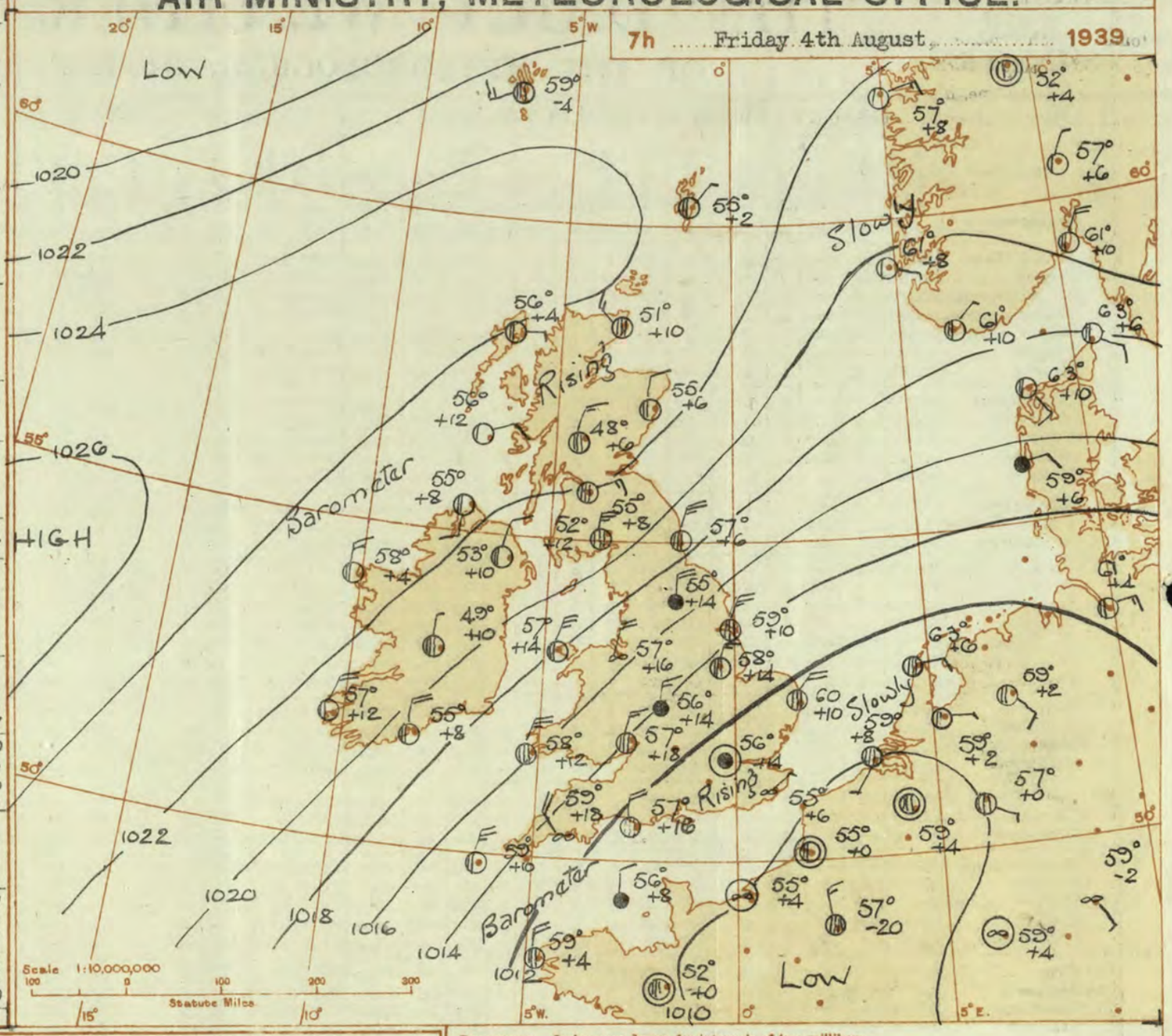
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for August 3rd 1939.

Dis.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 2nd to 9h. 3rd	Temperature. (°F) Max. 9h.—17h. 3rd	Rainfall. (mm.) Night. 17h. 2nd to 9h. 3rd	Rainfall. (mm.) Day. 9h.—17h. 3rd	Sunshine. (Hrs.) Sunrise to 17h. 3rd	Sunshine. (Hrs.) Sunrise to Sunset. 2nd
1	Tunbridge W.	ors	orcoc	54	59	11	9	0.3	2.7
	Bournemouth	rcbc	pbbc	54	65	13	0.5	4.7	2.1
	Ventnor ...	rc	bsrbc	56	62	11	6	2.5	4.0
	Southsea ...	or	cpc	56	64	11	3	2.6	3.0
	Bognor Regis	orrbc	bcpbc	56	63	12	7	1.7	2.4
	Littlehampton	crrc	bcpbc	56	64	1	3	1.5	2.7
	Worthing ...	oR	bccR	56	67	13	6	2.4	2.6
	Brighton ...	rrc	rcbc	56	63	11	4	2.4	2.7
	Eastbourne† ...	r	rcpc	57	62	5	3	0.8	3.3
	Hastings† ...	rror	ocbcc	54	62	4	3	0.5	3.5
	Folkestone ...	m.orr	orocp	56	61	8	3	0.2	2.0
	Dover ...	or	roc	56	62	16	1	0.9	2.2
	Deal	rrpc	pcopc	56	62	7	2	0.2	2.9
	Ramsgate ...	r	orc	57	60	9	2	0.2	2.2
	Margate ...	cr	cd	56	61	10	4	0.1	1.3
2	Southend ...	or	orc	55	59	5	10	0.0	3.6
	Clacton-on-Sea	orirc	circv	56	63	5	0.3	0.0	3.7
	Dovercourt ...	roc	rocbc	55	62	3	5	0.0	5.1
	Lowestoft ...	oiRc	cpc	56	61	3	8	0.0	5.0
	Skegness ...	oror	oror	55	60	5	2	0.0	2.7
	Mablethorpe...	or	or	54	60	2	4	0.0	3.4
	Cleethorpes ...	ocir	ocir	54	61	3	2	0.0	4.2
3	Leamington S.	cbccp	po	53	60	9	2	0.1	0.7
4	Cheltenham†	cbcc	crtlh	52	65	6	16	1.5	0.7
5	Bath	bcp.c	bctc	54	64	8	0.3	3.1	0.5
	Weymouth ...	rcb	ctlrcb	55	65	13	0.6	4.2	2.0
	Jersey ...	crc	bc	57	65	9	1	5.8	6.2
	Torquay ...	bcv	bcbyv	54	66	5	–	8.5	1.3
	Falmouth ...	rocop	cbcpc	52	63	5	0.1	9.0	3.9
	Penzance ...	pbcb	bbc	52	64	5	–	10.2	4.9
	St. Ives ...	c	b	54	61	9	–	7.6	4.5
	Bude... ...	rcbc	bc	55	62	15	–	8.6	1.5
	Ilfracombe ...	rrcbc	bcbbc	54	64	13	–	7.1	0.7
6	Aberystwyth	rrcbc	bcpr	54	61	12	1	4.2	0.0
7	Llandudno ...	cro	rbc	54	61	23	Tr.	1.6	0.0
	Colwyn Bay...	cbcc	cpoc	53	60	18	0.5	1.8	0.0
	Rhyl	cpro	orrbc	53	62	13	1	0.2	0.1
8	Wallasey ...	bcpc	cR	53	61	13	3	2.0	0.1
	Southport ...	bccoc	pcpb	52	61	11	0.1	1.1	0.2
	Blackpool ...	cp	cpc	52	62	6	0.3	0.2	0.0
	Morecambe ...	cir	cbc	53	62	12	0.3	0.5	0.6
9	Ilkley... ...	o	oro	52	61	7	0.5	0.2	2.0
	Harrogate ...	cido	cdbp	52	60	6	1	0.1	2.3
10	Berwick-on-T.	cbc	bcrc	53	61	2	Tr.	4.8	2.7
11	Dunbar ...	cro	cm.	50	59	1	–	2.5	1.8
12	Troon... ...	cbcc	ococ	47	64	2	–	2.2	0.8
	Douglas ...	b	cp	51	63	1	Tr.	3.1	0.0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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. 4th August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind northeast, moderate inland, fresh locally on the east coast; mainly cloudy; showers and local thunderstorms; brighter periods tomorrow; local fog on east coast; rather cool.
5 S.W. England 6 South Wales ...	Wind northeast, fresh; bright periods; local showers with a chance of thunder; average temperature.
7 North Wales ... 8 N.W. England	Wind northeast, fresh, becoming lighter and more variable; fair becoming fine; becoming warmer.
9 N. Midlands ... 10 N.E. England	Wind northeast fresh, strong locally on coast at first, decreasing considerably; cloudy, local showers at first, then fair apart from local coastal fog; rather cool, then warmer.
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 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	Wind becoming light and variable; mainly fine; warmer.
19 S. E. Ireland 20 S. W. Ireland	Wind northeast, fresh to moderate; fair; rather cool, warmer tomorrow.

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

GENERAL INFERENCE.

Pressure is low on the Continent. The eastern section of a ridge of high pressure extending from thr Azores to Scandinavia will move slowly southeast over the British Isles. Fine and warmer weather will extend to northern and western districts but there will be heavy showers and local thunderstorms in many districts of England today.

FURTHER OUTLOOK.

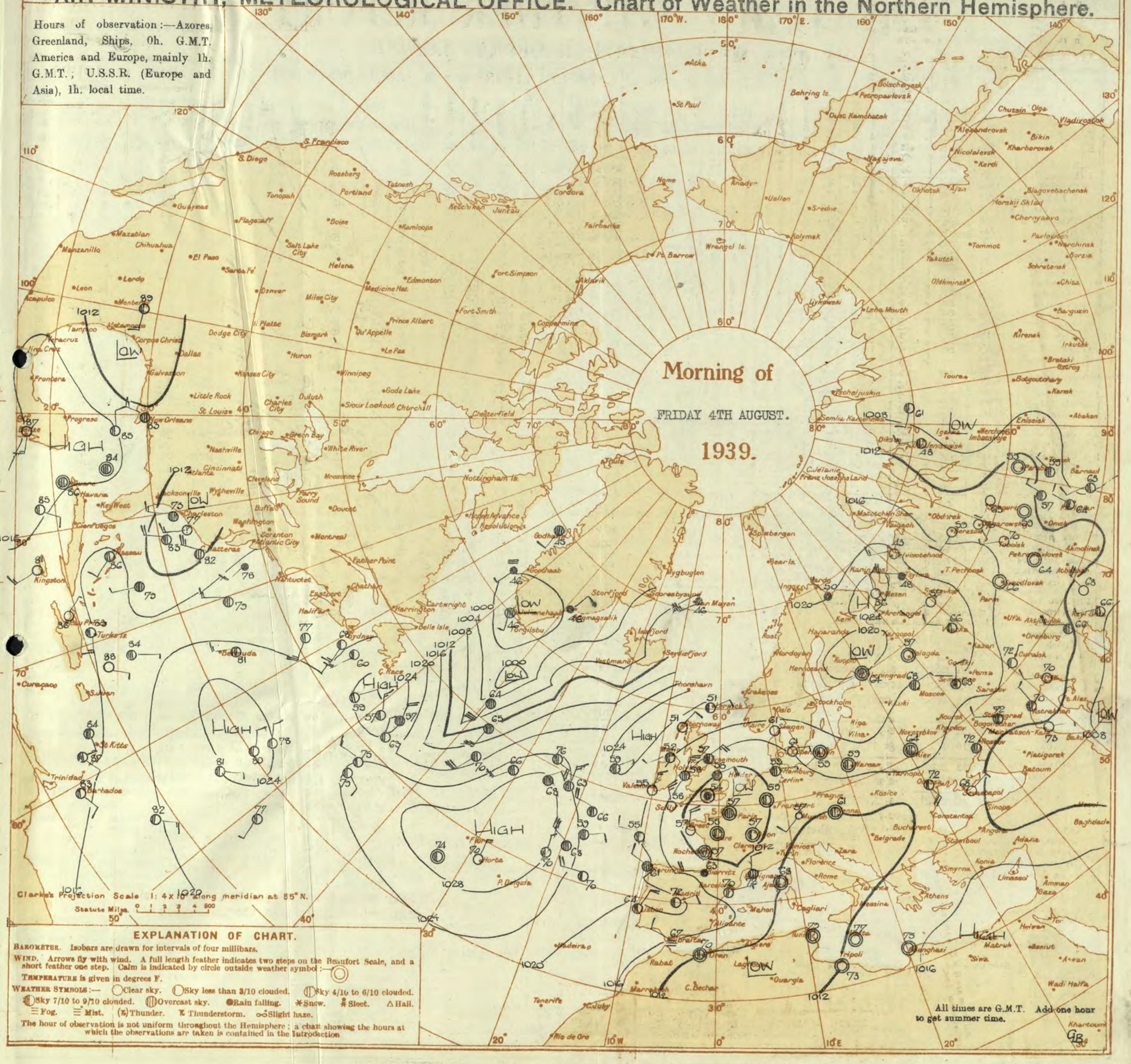
Fair and warmer in the West and North. Probably becoming fair in the Southeast also by Sunday.

Forecasts issued at 0930 G.M.T.

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

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

Friday 4th August, 1939.

No. 28379

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 2 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	-2	—	0	dodo	54	97	4	-	2	—	10	10	450
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1009·9	0	NNW	2	r6r6	53	97	5	6	-	-	10	10	800
	Calshot (Sthmtn.)	8	1009·5	+2	NW	3	c	56	92	7	5	3	6	9	9+	4000
	Lympne	346	1009·8	+4	N	2	[illegible]	52	92	5	-	-	-	0	0	—
	Manston	154	1009·2	+2	—	0	zo	49	97	6	2	-	-	1r	1r	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1009·6	+4	NE'E	4	c	58	92	7	8	-	-	9+	9+	2500
	Mildenhall	19	1010·0	+8	NNE	2	c	56	97	7	5	-	-	9+	9+	4000
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011·6	+4	N	5	c	59	85	8	5	-	-	9+	9+	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1009·5	0	N	3	c	57	92	8	5	4	-	4·6	9	4000
	Plymouth	82	1011·0	-2	NNW	4	c	58	85	7	8	-	-	7·8	7·8	2500
	The Lizard	240	1012·7	-2	NW	4	c	57	97	7	8	2	-	7·8	10	1500
	Scilly (St. Mary's)	163	1014·2	0	N'W	5	b	58	92	8	—	-	-	0	0	—
	Guernsey	175	1010·4	+2	NW	3	c	55	92	8	-	3	-	0	7·8	—
6	Pembroke	142	1013·6	+10	NNE	4	bc	57	97	7	5	4	-	2·3	4·6	2500
7	Holyhead	26	1015·9	+16	NNE	5	c	58	85	7	5	3	-	7·8	9	2500
	Chester (Sealand)	16	1014·6	+10	N	3	zo	57	85	6	5	-	-	9+	9+	2500
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1012·1	+4	NE	4	c	58	92	7	5	1	—	2·3	10	450
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1016·0	+12	NE	5	c	57	85	7	8	—	-	9+	9+	1500
11	St. Abbs Head	280	1019·1	+8	NNE	4	c	55	75	8	5	2	-	7·8	10	2500
	Leuchars	36	1021·0	+10	—	0	c	53	75	8	5	1	—	9+	10	1500
12	Renfrew (Abbotsl.)	19														
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1018·2	+22	ENE	5	bc	56	85	8	8	4	—	1	2·3	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1023·2	+10	NNE	2	b	51	97	8	5	-	-	1r	1r	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1022·7	+8	WNW	2	b	46	97	8	5	-	-	1	1	2500
16	Lerwick	156	1022·9	+20	NE	2	bc	51	92	8	5	-	-	4·6	4·6	2500
17	Blacksod Point	18	1021·4	+6	—	0	bc	54	92	8	3	-	-	2·3	2·3	2500
18	Malin Head	84	1020·9	+16	SW	1	bc	52	92	8	-	4	-	0	2·3	—
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1020·5	0	NNE	3	b	55	97	8	5	—	-	1	1	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1011·4	+16	NNE	2	zo	58	85	6	5	—	-	9+	9+	2500	f	*
	Croydon	1011·0	+14	-	0	pr	56	97	5	9	—	-	9+	9+	450	1	*
	S. Farnborough	1011·1	+14	NNE	3	c/r	57	92	6	6	7	-	9+	9+	450	1	*
	Boscombe Down	1011·6	+14	N'E	4	zo	56	92	6	5	3	—	7·8	9+	1500	1	*
	Calshot (Sthmtn.)	1010·7	+12	N'E	3	zo	57	92	6	8	—	-	9+	9+	2500	1	1
	Lympne	1010·9	+6	NE'E	1	zo	55	92	6	2	—	-	Tr	1r	4000	0	1
	Manston	1010·5	+10	N'W	1	zo	57	97	5	8	—	-	4·6	4·6	4000	1	*
2	Shoeburyness	1010·5	+10	N'E	2	bc	61	92	8	8	7	2	4·6	4·6	1500	1	*
	Felixstowe	1010·7	+12	ESE	1	1r	58	97	8	9	—	-	9+	9+	800	2	1
	Gorleston	1011·2	+10	NE	4	c	60	85	7	8	—	-	10	10	2500	1	3
	Mildenhall	1011·9	+14	NNE	3	zo	58	97	6	5	2	-	7·8	10	4000	1	*
	Cranwell	1013·8	+14	NNE	3	c/r	58	92	7	5	3	—	7·8	9	800	1	*
3	Birmingham	1014·1	+14	N	3	1r	56	92	5	6	—	-	10	10	450	1	*
	Upper Heyford	1012·5	+14	N'E	3	1r	56	92	6	6	7	-	9	10	800	1	*
4	Ross-on-Wye	1013·6	+18	N'E	3	c/d	57	85	7	6	—	-	10	10	1500	1	*
5	Hartland Point	1013·2	+12	NNE	5	c	59	85	8	8	3	-	4·6	7·8	1500	1	3
	Bristol	1013·2	+18	N'E	3	16	56	92	6	5	2	-	7·8	10	800	1	*
	Portland Bill	1010·7	+16	N	4	c	57	92	8	5	4	—	4·6	9	4000	1	3
	Plymouth	1012·9	+18	NW'N	4	zo	59	85	6	2	3	8	2·3	7·8	2500	1	1
	The Lizard	1014·0	+12	NW'N	4	bc	58	92	8	8	6	-	4·6	4·6	2500	1	3
	Scilly (St. Mary's)	1014·9	+10	N'E	5	bc	59	92	7	2	6	—	2·3	4·6	2500	1	3
	Guernsey	1010·4	+8	N	2	1r	56	92	7	8	3	-	7·8	9	450	1	3
6	Pembroke	1016·4	+12	NE'N	5	cq	58	92	7	8	6	—	4·6	7·8	2500	1	2
7	Holyhead	1018·1	+14	NNE	5	bc	57	85	8	2	4	-	2·3	4·6	2500	1	3
	Chester (Sealand)	1016·8	+16	N'E	4	zo	57	75	6	5	3	—	9	9+	2500	1	*
8	Manchester	1016·4	+22	NE'N	4	c	57	75	7	5	3	-	9	9+	1500	1	*
10	Spurn Head	1014·2	+10	NE'N	5	c	59	92	6	5	3	—	4·6	10	1500	1	4
	Catterick	1018·0	+14	N	4	r6r6	55	92	6	6	2	-	9	10	450	1	*
	Tynemouth	1018·4	+6	NNE	5	c	57	85	7	2	6	-	4·6	7·8	1500	1	3
11	St. Abbs Head	1020·5	+8	NNE	4	c	55	75	9	5	6	-	7·8	10	1500	0	3
	Leuchars	1022·4	+8	N	2	bc	56	75	9	5	3	-	4·6	4·6	2500	0	*
12	Renfrew (Abbotsl.)	1022·8	+8	ENE	3	c	55	75	9	5	—	-	9+	9+	4000	1	*
	Eskdalemuir	1022·7	+12	NNE	5	c	52	75	8	5	—	-	9	9	2500	1	*
	Point of Ayre	1020·1	+12	NE	5	b	56	85	8	4	4	—	Tr	1	2500	0	3
13A	Tiree	1022·9	+12	ENE	2	b	56	75	8	1	—	5	Tr	Tr	4000	0	2
13B	Stornoway	1023·9	+4	E	1	bc	56	85	9	2	3	—	Tr	2·3	4000	1	1
15	Dalwhinnie	*	+6	NNE	3	c	48	85	6	4	7	—	2·3	7·8	2500	1	*
	Aberdeen	1022·7	+6	N	2	bc	55	85	8	8	-	-	2·3	2·3	1500	0	1
	Wick	1023·9	+10	NW	3	c	51	92	8	5	7	—	7·8	9	2500	1	1
16	Lerwick	1023·3	+2	NE	1	bc	55	85	9	5	-	-	2·3	2·3	2500	0	*
17	Blacksod Point	1022·4	+4	N	3	bc	58	92	8	—	5	-	0	4·6	—	0	1
18	Malin Head	1023·0	+8	S	2	bc	55	92	8	1	4	-	2·3	2·3	4000	0	1
	Aldergrove	1021·9	+10	NNE	2	bjf	63	75	7	1	—	-	Tr	Tr	2500	1	*
19	Birr Castle	1020·8	+10	N	1	c	49	97	7	5	—	-	10	10	4000	1	*
20	Valentia Obsy. †	1021·8	+12	NNE	4	bc	57	85	8	8	—	-	4·6	4·6	1500	0	2
	Roches Point	1019·7	+8	N	4	bc	55	92	8	2	—	-	2·3	2·3	2500	1	1

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)	61	55	51	4	3	1·4
	Croydon	60	53	50	9	2	1·4
	S. Farnborough	62	53	50	6	1	1·9
	Boscombe Down	63	53	52	8	3	3·1
	Calshot (Sthmtn.)	63	54	53	9	1	2·0
	Lympne	59	43	41	7	Tr	1·0
	Manston	60	46	39	7	—	1·0
2	Shoeburyness	61	50	43	5	0·1	0·0
	Felixstowe	63	56	55	3	8	0·1
	Gorleston	61	57	55	6	2	0·0
	Mildenhall	60	59	55	7	2	0·0
	Cranwell	59	55	54	5	0·4	0·0
3	Birmingham	60	54	52	0.6	6	0·1
	Upper Heyford	60	53	52	0.6	4	*
4	Ross-on-Wye	64	55	54	1	6	2·3
5	Hartland Point	58	55	55	—	Tr	6·7
	Bristol	63	54	52	1	7	3·3
	Portland Bill	62	50	*	10	2	*
	Plymouth	63	56	55	Tr	Tr	11·0
	The Lizard	62	53	*	Tr	0·1	11·6
	Scilly (St. Mary's)	62	56	*	0.2	—	10·9
	Guernsey	63	53	50	1	0·2	7·5
6	Pembroke	62	54	*	Tr	—	7·3
7	Holyhead	61	56	53	0.1	—	4·6
	Chester (Sealand)	62	56	54	1	2	2·5
8	Manchester	60	53	53	1	—	0·7
10	Spurn Head	61	56	*	5	0·5	0·0
	Catterick	60	54	53	4	1	0·1
	Tynemouth	58	54	52	8	0·4	0·5
11	St. Abbs Head	59	54	*	1	—	*
	Leuchars	62	52	50	-	-	3·4
12	Renfrew (Abbotsl.)	60	50	45	1	-	2·3
	Eskdalemuir	60	49	48	3	0·1	2·9
	Point of Ayre	63	55	*	0.3	-	3·4
13A	Tiree	61	48	37	-	-	11·7
13B	Stornoway	60	49	*	-	—	13·4
15	Dalwhinnie	58	39	31	1	Tr	1·8
	Aberdeen	60	49	47	0.1	-	2·9
	Wick	57	44	*	-	—	*
16	Lerwick	57	47	*	-	—	12·1
17	Blacksod Point	61	52	*	-	—	*
18	Malin Head	60	48	*	-	-	8·8
	Aldergrove	66	49	46	—	-	8·9
19	Birr Castle	65	46	36	—	-	5·3
20	Valentia Obsy. †	63	54	49	-	—	7·1
	Roches Point	63	53	*	0.2	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h)	Weather Afternoon (24 hrs. ended 9h)	Weather Night (24 hrs. ended 9h)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	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	crrr	crrcpr	bcrcrd	61	55	51	4	3	1·4	•	•	6
CROYDON	217	crRrrm	rrrrpr	bcrdRd	60	53	50	9	2	1·4	•	•	6
GREENWICH (Royal Observatory)	149	rr	rrc	crc	58	55	52	14	0·5	0·5	92	89	7
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•	*	•	•	•
WESTMINSTER (St. James' Park)	27	•	•	•	62	51	52	12·2		0·4	96	85	•
REGENTS PK. (Botanic Gardens)‡	168	•	•	•	59	54	53	6	4	*	94	91	•
CAMDEN SQUARE	110	c	c	•	60	55	54	*	*	*	•	88	•
KENSINGTON	80	cr	cr	•	60	55	53	7	5	0·8	78 at 18h	89	•
HAMPSTEAD OBSERVATORY	450	or	or	orc	59	52	50	6	3	*	•	89	•

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. August 3rd Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. August 4th 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						1008·6	NNW	3	zo	57		*		8
BRUSSELS						1009·8	—	0	c	59		52		Tr
BERLIN	1013·8	SE	2	c	73						*		—	
ZÜRICH	1012·8	ESE	2	c/r	61	1011·2	NNE	1	c/r	57	77	55	4	1
ROME	1012·6	S	2	c	75	1012·3	SE	5	bc	77	*	*	—	—

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
<0·3	the	whole	period

Kew Observatory Max.	Time.	Min.	Time.
0·1	20h 3rd	<0·1	12–13h 3rd

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 Precipitous.
4 Rough.	9 Confused.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 5th August, 1939.

No. 28380

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	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)...	1012·1	+4	NE	3	cjp	66	65	7	9	3	3	7-8	9+	2500
	Croydon ...	1012·4	+4	NEE	2	c/pr	61	85	6	3	6	3	4-6	7-8	4000
	S. Farnborough	1012·2	+2	N	3	c/pr	65	65	7	8	3	-	9	9+	2500
	Boscombe Down	1013·0	+4	NNE	5	c/jp	63	75	7	8	-	-	9	9	1500
	Calshot (Soton.)	1012·0	+8	N	3	c/dr	62	85	7	8	-	-	9+	9+	1500
	Lympne ...	1011·3	-2	NNE	4	pr	54	75	7	8	-	-	9	9	1500
	Manston ...	1011·2	+2	NE'N	4	c	63	85	6	8	3	-	9+	9+	1500
2	Shoeburyness ...	1011·8	+4	NE	4	c	64	85	8	8	4	2	4-6	7-8	2500
	Felixstowe ...	1011·9	+2	NE	3	PR	67	75	6	9	6	-	9+	9+	800
	Gorleston ...	1012·6	+4	NNE	4	c/pr	63	85	7	8	-	-	9+	9+	2500
	Mildenhall ...	1012·7	+2	NNE	4	c	65	75	8	8	7	-	4-6	9	2500
	Cranwell ...	1015·2	+4	NE	5	pr	61	85	7	8	1	-	9	10	800
3	Birmingham ...	1016·0	+6	N	3	ir	58	85	6	6	-	-	10	10	800
	Upper Heyford	1013·8	+2	NNE	3	c/pr	62	85	7	8	7	-	7-8	9+	800
4	Ross-on-Wye ...	1014·3	+6	N	3	c/pr	62	75	7	8	-	-	9+	10	1500
5	Hartland Point	1015·6	+14	NE	5	c	62	75	7	8	6	-	4-6	7-8	1500
	Bristol ...	1014·6	+6	N	4	c/pr	63	75	7	8	7	-	7-8	9	1500
	Portland Bill ..	1012·6	+6	NE	2	c	59	92	8	5	7	-	7-8	10	2500
	Plymouth ...	1014·5	+10	N'E	4	c	66	65	7	9	-	3	9	9+	4000
	The Lizard ...	1015·2	+16	N'W	5	bc	66	75	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1017·1	+12	NNE	5	c	62	85	7	8	6	-	4-6	7-8	2500
	Guernsey ...	1012·5	+10	N	3	c	62	85	7	2	7	-	4-6	7-8	1500
6	Pembroke ...	1017·4	0	NE'N	5	bcq	64	75	7	5	-	-	4-6	4-6	2500
7	Holyhead ...	1020·3	+14	N'E	4	c	59	75	8	5	-	-	7-8	7-8	4000
	Chester (Sealand)	1018·5	+8	N'E	4	c	61	75	7	8	-	-	9+	9+	2500
8	Manchester ...	1018·2	+6	NE'N	4	c	61	65	7	7	3	-	9	9+	2500
10	Spurn Head ...	1015·4	+4	NNE	6	c	61	85	6	5	8	-	7-8	9+	1500
	Catterick ...	1019·3	+6	NE'N	4	c	60	75	8	5	-	-	9+	10	1500
	Tynemouth ...	1019·4	+4	NNE	5	c	58	85	7	8	-	-	9+	9+	1500
11	St. Abbs Head...	1022·0	+4	NNE	4	c	55	85	8	8	4	-	7-8	10	1500
	Leuchars ...	1023·3	+6	ENE	3	c	60	75	9	8	-	-	7-8	7-8	4000
12	Renfrew (Abbotsl.)	1023·0	0	E'N	2	c	63	55	9	7	-	-	7-8	7-8	4000
	Eskdalemuir ...	1022·0	+4	NE	4	c	56	75	8	5	-	-	9+	9+	2500
	Point of Ayre ...	1021·1	+2	NEE	4	b	63	75	8	1	6	-	Tr	1	4000
13A	Tiree ...	1023·6	0	NNW	1	bc	59	75	8	1	4	-	2-3	2-3	4000
13B	Stornoway ...	1024·8	-4	SE	1	bc	59	75	9	2	-	-	2-3	2-3	4000
15	Dalwhinnie ...	1024·4	+8	W	1	c	58	65	7	4	6	-	4-6	7-8	4000
	Aberdeen ...	1023·9	+6	NE'N	3	c	58	75	8	7	-	-	9	9	1500
	Wick ...	1024·3	+2	NE	3	c	55	85	8	5	7	-	4-6	7-8	2500
16	Lerwick...	1022·1	-8	SW	1	bc	58	85	9	8	4	1	2-3	4-6	2500
17	Blacksod Point...	1023·4	+2	NW	3	bc	62	85	8	1	-	-	2-3	2-3	2500
18	Malin Head ...	1024·0	+2	NE'N	2	bc	58	65	8	1	-	-	2-3	2-3	5700
	Aldergrove ...	1022·7	+2	NNE	3	bc	60	65	8	4	-	-	4-6	4-6	4000
19	Birr Castle ...	1021·5	+2	N	2	c	65	65	8	4	-	-	7-8	7-8	2500
20	Valentia Obsy.†	1022·6	+2	N'E	4	bc	64	75	8	2	-	-	2-3	2-3	4000
	Roches Point ...	1020·6	+2	NE	3	bc	66	65	9	1	-	-	4-6	4-6	4000

OBSERVATIONS at 18h. G.M.T. 4th August — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	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)	Weather 7h.–13h. 4th (37)	Weather 13h.–18h. 4th (38)	Weather 18h. 4th to 1h. 5th (39)	Weather 1h.–7h. 5th (40)
London (Kew)...	1012·7	+2	NNE	3	pr	62	85	6	9	7	3	4-6	9+	1500	1	*	czoprtc	cqtlPRopr	cmobc	cprRriro
Croydon ...	1012·6	+2	NW/N	2	pr	60	92	5	9	7	-	9	10	1500	1	*	PRTlrqmo	TLr Frm	cprocmoiR	Rrmromo
S. Farnborough	1012·6	+2	NW	1	c/pr	61	92	6	8	3	-	7-8	9	4000	1	*	cpro PR	prtPRc	prpRc	rcRro
Boscombe Down	1014·1	+2	N'E	3	c/pr	57	97	6	9	7	-	4-6	9	1500	1	*	cmopr.	cPRtlrcPR	ccpRo	ciromocmo
Calshot (Soton.)	1013·0	+2	NNW	4	tlro	61	92	6	9	-	-	9+	9+	1500	1	1	ccpr.tlr.	tlr iro	tlrRirbc	bcidcroro
Lympne ...	1011·5	-2	NNE	4	c	61	75	8	2	4	7	2-3	10	2500	0	§ 2	dem.bcd	cprc	crrRmot	cTLRr
Manston ...	1011·0	-2	NNE	4	c	61	85	7	5	7	-	9+	9+	1500	0	*	bcmoc	cmoc	orrmo	orrRR
Shoeburyness ...	1011·8	0	NNE	4	c	64	85	8	8	-	2	4-6	7-8	2500	1	*	ctbc	bccPR	cPcPc	RRcPt
Felixstowe ...	1011·7	-2	NE	5	c	64	75	8	8	7	6	2-3	7-8	2500	1	2	iroproc	cprobc	cTLR	crrctlR
Gorleston ...	1012·4	-2	N'E	4	c	63	85	7	8	-	-	7-8	7-8	2500	1	3	cpro	cbcc	cotlr	ot)RR
Mildenhall ...	1013·0	+2	N'E	4	bc	63	85	7	8	7	-	2-3	4-6	2500	1	*	cmroroidoc	c	becl	ccrororrt
Cranwell ...	1015·4	0	NE	4	ir	59	92	4	6	-	-	10	10	800	1	*	cproc	cproirm	cprmo	cprororocmo
Birmingham ...	1016·8	+4	N	3	c	59	75	6	5	-	-	10	10	1500	1	*	·orciro	orc	ciro	cor.
Upper Heyford	1014·8	+2	N'E	4	pr	58	92	7	9	-	-	10	10	800	1	*	ciroPR	cproPR	croiR	cirro
Ross-on-Wye ...	1015·3	+4	N'E	3	zo	61	75	6	5	-	-	9+	9+	1500	1	*	orrcpcp	cPcpdc	czopoc	ccRirr
Hartland Point	1016·2	0	NNE	5	c	61	85	7	8	-	-	9	9	1500	0	3	ciroc	cbcc	irobc	c
Bristol ...	1015·7	+4	N	3	zo	60	85	6	5	7	-	4-6	10	1500	1	*	cRiro	croprPR	ciromo	cmodocro
Portland Bill ..	1013·9	+6	N	2	ir	60	92	7	5	-	-	10	10	1500	2	2	c	o iR	bcc	c
Plymouth ...	1015·3	+4	NNE	4	c/pr	60	85	8	9	3	-	4-6	9+	2500	1	1	cmoc	cproc,pro	cbbc	bcb,cmo
The Lizard ...	1016·1	+6	NNW	5	bc	63	85	6	2	3	-	2-3	4-6	2500	1	3	cbc	bcm	bcw	bc
Scilly (St. Mary's)	1017·6	-2	N'E	5	b	60	92	7	-	-	-	0	0	-	0	3	bbcc	cbcb	b	bw
Guernsey ...	1013·1	+6	N'W	4	c	60	85	7	-	3	8	0	7-8	-	1	2	cr iro	cbcc	co	ociro
Pembroke ...	1018·4	0	NNE	5	bq	60	85	7	1	-	-	Tr	Tr	4000	1	2	cbcq	bcbq	bcbw	bbcw
Holyhead ...	1019·8	-6	NNE	4	bc	60	85	8	7	-	-	4-6	4-6	4000	1	3	bcc	c,bc	bcwb	bw
Chester (Sealand)	1018·8	+2	N'E	4	zo	61	65	6	5	7	-	7-8	7-8	2500	1	*	czo	cczo	czobccmo	cmo
Manchester ...	1018·7	+2	NE	4	c	60	75	7	8	-	-	9	9	2500	1	*	c	c	c	c
Spurn Head ...	1015·3	-2	NNE	5	ir	58	92	6	5	-	-	10	10	800	1	4	ircq	ir cq	cq	prqe
Catterick ...	1020·1	0	N'E	4	c	57	85	7	5	-	-	9+	9+	1500	1	*	roro omoc	c	cproc	c
Tynemouth ...	1020·6	+2	N	5	c	56	85	7	8	-	-	9	9	1500	1	3	bcc	c	cb	o
St. Abbs Head...	1022·7	0	NNE	4	bc	55	85	8	7	4	-	2-3	4-6	2500	0	3	c	bc	c	c
Leuchars ...	1023·4	+2	ENE	3	b	58	75	9	8	6	-	Tr	1	4000	0	*	cbc	bcb	bw	bwbccw
Renfrew (Abbotsl.)	1022·7	-2	E'N	3	bc	63	65	8	7	-	-	4-6	4-6	4000	0	*	cbccbcy	bcybc	bcc	c
Eskdalemuir ...	1022·0	0	NE	4	bc	57	65	9	5	-	-	2-3	2-3	4000	1	*	c	cbc	bcbbc	bcc
Point of Ayre ...	1021·6	+2	E	4	b	61	75	8	-	4	-	0	1	-	0	3	b	bbcb	bbc	bbc
Tiree ...	1023·1	-2	NNW	1	b	59	75	8	1	-	5	Tr	Tr	4000	0	1	bbc	bcb	bw	bbcw
Stornoway ...	1024·5	-2	-	0	bc	61	65	9	2	-	-	2-3	2-3	4000	0	0	bc	bc	b	b
Dalwhinnie ...	1023·3	-4	N	2	bc	60	55	8	4	6	-	2-3	4-6	4000	0	*	c	bc	*	bc
Aberdeen ...	1023·8	0	NE	3	b	56	75	8	4	-	-	1	1	1500	0	2	bcc	cbcb	bbw	bwbcc
Wick ...	1024·2	-2	ESE	1	bc	55	85	8	7	4	-	1	2-3	1500	1	1	bcc	cbc	bbc	bc
Lerwick...	1022·0	0	S	3	bc	55	85	9	5	7	-	4-6	4-6	2500	0	*	bc	bc	bcq	bcw
Blacksod Point...	1023·2	-2	NW	4	bc	61	85	8	1	-	-	4-6	4-6	2500	0	2	bc	bc	bc	bc
Malin Head ...	1023·8	0	E	1	b	57	75	8	-	-	-	0	0	-	0	0	bc	bc	bc	bc
Aldergrove ...	1022·2	-2	NNE	3	b	63	55	7	-	-	-	0	0	-	1	*	bjfbc	bcby	bybw	bcb
Birr Castle ...	1021·5	0	N	2	bc	65	65	8	1	-	-	4-6	4-6	2500	1	*	c	cbc	bcb	boff
Valentia Obsy.†	1022·5	-2	NW	4	b	63	85	8	1	4	-	1	1	2500	0	2	bc	bcb	bbw	bwb
Roches Point ...	1021·1	+2	E'S	2	bc	63	75	9	1	-	-	4-6	4-6	4000	1	1	bc	bc	bcw	bcwb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕ Solar halo. ⊕ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.*

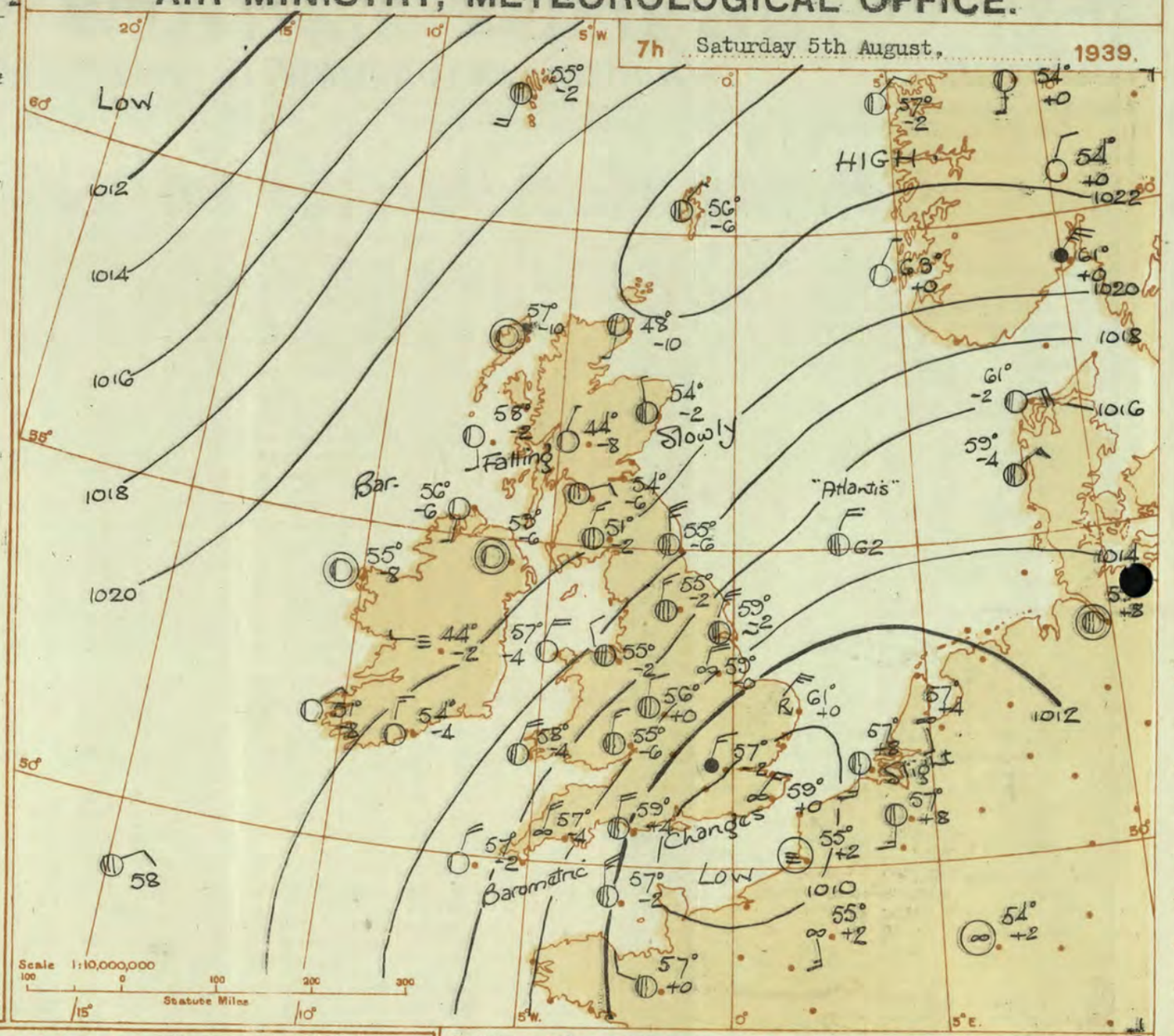
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 4th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 3rd to 9h. 4th	Temperature. (°F) Max. 9h.—17h. 4th	Rainfall. (mm.) Night 17h. 3rd to 9h. 4th	Rainfall. (mm.) Day. 9h.—17h. 4th	Sunshine. (Hrs.) Sunrise to 17h. 4th	Sunshine. (Hrs.) Sunrise to Sunset. 3rd.
1	Tunbridge W.	coc	coroc	45	67	Trace	4	4·7	0·4
	Bournemouth	cbcc	Ptlh	52	65	8	7	1·6	4·8
	Ventnor ...	rbc	trcu	52	69	3	1	5·2	3·1
	Southsea ...	cbc	cpc	55	68	5	1	3·4	3·4
	Bognor Regis	bc	bctlr	51	67	Trace	7	6·2	2·5
	Littlehampton	bcc	ctlrp	49	68	–	6	6·2	2·4
	Worthing ...	bccR	ctlR	51	67	Trace	8	6·1	3·0
	Brighton ...	bcer	Rtlc	51	66	–	7	4·5	3·2
	Eastbourne† ...	bcc	cpc	49	67	Trace	2	6·3	1·2
	Hastings† ...	bcbcc	ptpbc	49	68	Trace	2	5·1	1·8
	Folkestone ...	bcc	c	51	67	–	–	8·9	0·8
	Dover ...	cbc	bcc	55	68	–	–	7·9	1·3
	Deal	b	bbcco	47	65	Trace	–	7·3	0·8
	Ramsgate ...	bc	bcc	52	64	–	–	8·6	1·3
	Margate ...	bc	bcc	52	64	–	–	9·0	0·6
2	Southend ...	cotlr	copc	52	68	–	7	4·5	0·0
	Clacton-on-Sea	cbc	bcbc	55	67	1	–	7·2	0·0
	Dovercourt ...	ltrbcc	rocbc	56	66	12	3	5·8	0·0
	Lowestoft ...	circ	cbc	57	65	1	0·3	3·3	0·0
	Skegness ...	bc	cor.o	55	64	0·5	Trace	1·3	0·0
	Mablethorpe...	oc	o	57	62	0·3	–	0·2	0·0
	Cleethorpes ...	ocir	oroc	58	62	Trace	2	0·0	0·0
3	Leamington S.	c	cpro	55	64	12	1	1·0	0·1
4	Cheltenham†	ocir.	cir.c	52	65	11	2	1·1	1·5
5	Bath	cir	cRtl	56	66	10	13	1·0	3·5
	Weymouth ...	c	ir	54	68	2	2	2·9	6·2
	Jersey ...	cbc	bc	57	66	–	–	9·4	7·3
	Torquay ...	cobcp.	cbcp.	56	66	1	1	1·1	9·6
	Falmouth ...	bc	b	56	67	–	–	7·3	10·2
	Penzance ...	bcb	b	56	67	–	–	10·3	11·5
	St. Ives ...	b	b	54	64	–	–	8·1	9·7
	Bude... ...	cbc	bc	58	66	–	–	6·5	10·0
	Ilfracombe ...	bcco	cbcco	58	64	–	–	0·9	7·7
6	Aberystwyth	cbcc	cbcc	57	66	–	–	4·2	4·2
7	Llandudno ...	c	c	56	63	Trace	–	1·0	1·6
	Colwyn Bay...	co	obc	56	61	0·5	–	0·0	1·8
	Rhyl	c	cbcc	57	64	Trace	–	1·5	0·2
8	Wallasey ...	bcebc	cbcc	54	65	1	–	2·7	2·0
	Southport ...	c	c	53	67	Trace	–	2·5	1·2
	Blackpool ...	bcc	bc	54	65	–	–	7·7	0·5
	Morecambe ...	bcb	bbc	55	65	–	–	10·5	0·8
9	Ilkley... ...	orod.	od.o	54	60	3	Trace	0·0	0·2
	Harrogate ...	coid.	oc	53	58	11	Trace	0·0	0·1
10	Berwick-on-T.	o	oc	55	57	–	–	0·0	5·1
11	Dunbar ...	cpr.	bc	54	57	Trace	–	6·0	3·2
12	Troon... ...	cpc	bbcb	49	65	–	–	4·6	2·2
	Douglas ...	b	b	53	63	0·5	–	11·6	3·1

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

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. 5th August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind northeast, moderate to fresh locally on the coast, veering and decreasing; further thundery rain, brighter periods by to-morrow; rather cool to-day, probably rather warmer to-morrow.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind northerly, moderate to fresh on the coast, veering later; cloudy; occasional rain spreading from the east with thunder locally; bright periods to-morrow; temperature rather below average.
7 North Wales ... 8 N.W. England	Wind northeast, moderate to light; mainly fair; average temperature.
9 N. Midlands ... 10 N.E. England	Wind northeast, moderate to fresh on the coast, decreasing; mainly cloudy; perhaps local showers; rather cool.
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 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind variable, light; fair or fine; local morning fog; average day temperature; rather cool at night.

GENERAL INFERENCE.

Pressure is high in a belt from Scandinavia to the Azores. A shallow depression over Northeast France will drift slowly west and then southwest. Weather will be mainly fine in Scotland, Ireland, West Wales and Northwest England, but elsewhere there will be further thundery rain.

FURTHER OUTLOOK.

Slowly becoming rather less settled in the North and West; thundery conditions in Southeast England and the Midlands.

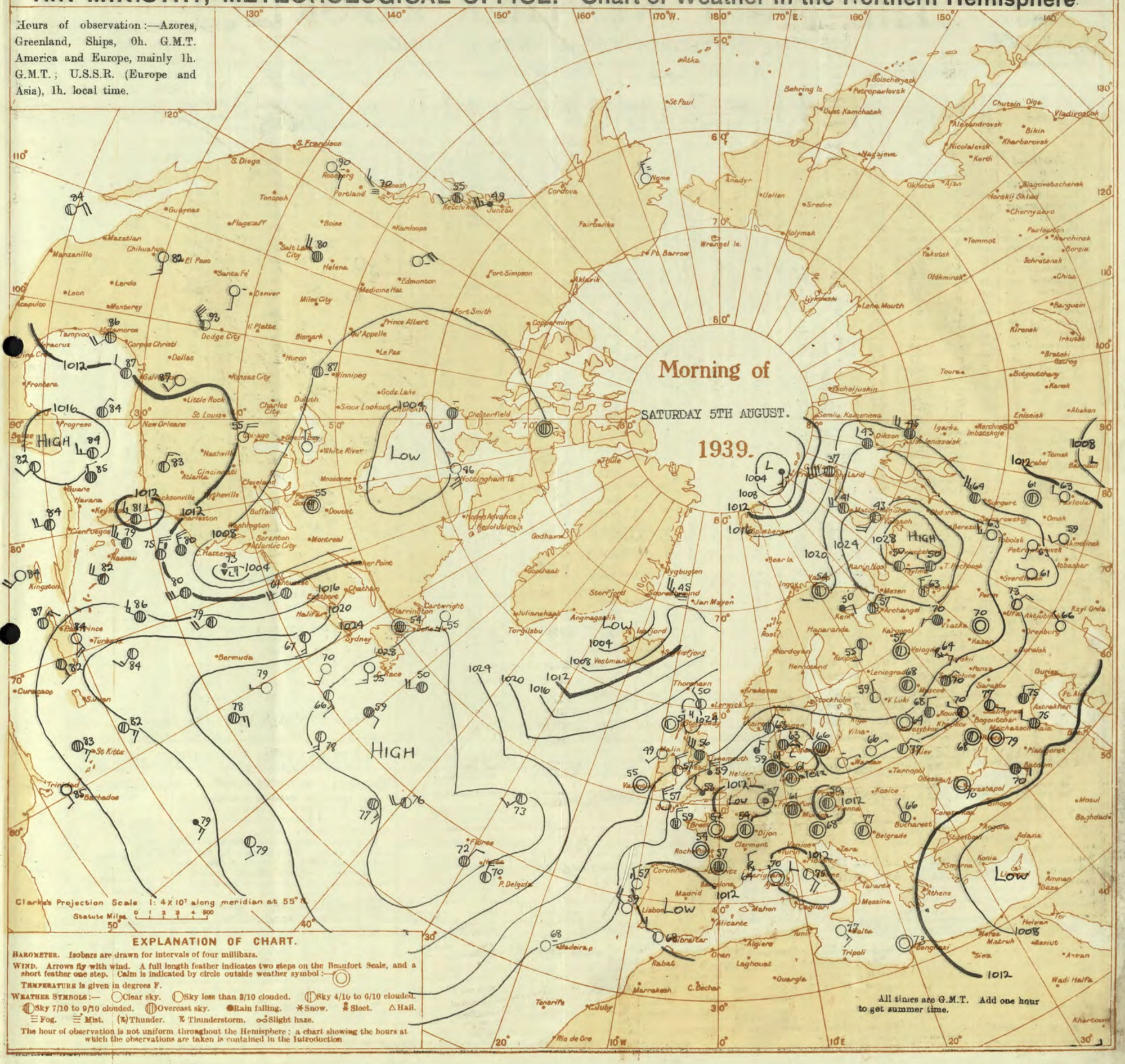
Forecasts issued at 0930 G.M.T.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 5th August, 1939.
No. 28380

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

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	-10	NW	2	RR	58	97	5	6	2	-	7·8	10	800
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1013·6	-12	NW	4	roro	56	92	6	5	-	-	10	10	1500
	Calshot (Sthmtn.)	8	1012·3	-12	NNW	5	bc	59	92	7	5	7	-	2-3	4-6	1500
	Lympne	346	1010·3	-14	N	3	zo	57	97	6	5	-	-	9+	9+	800
	Manston	154	1009·7	-14	NNE	4	rr	59	97	5	6	2	-	9	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1016·8	-8	NNE	6	tlr	61	92	6	9	-	-	10	10	1500
	Mildenhall	19	1012·2	-10	NE	4	c	60	92	7	5	3	-	7·8	10	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*		*	*	*	*	*	*	*	*
5	Hartland Point	299	1016·8	-4	NNE	4	bc	58	85	8	3	4	-	2-3	4-6	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1013·1	+4	NNE	3	c	58	92	7	5	4	-	4-6	7-8	2500
	Plymouth	82	1016·0	-2	NNW	3	bc	58	85	7	5	-	-	2-3	2-3	7200
	The Lizard	240	1016·8	-2	NNW	4	bc	56	97	7	4	-	-	2-3	2-3	2500
	Scilly (St.Mary's)	163	1018·3	-2	NE	5	b	57	92	7	-	-	-	0	0	-
	Guernsey	175	1013·8	0	N	4	o	58	92	6	8	-	-	10	10	800
6	Pembroke	142	1018·7	-2	NNE	4	b	55	97	7	-	4	-	Tr	Tr	4000
7	Holyhead	26	1019·8	-8	NNE	4	b	57	85	9	-	4	5	Tr	Tr	-
	Chester(Sealand)	16	1019·5	-2	NW	3	zo	56	85	6	5	-	-	10	10	2500
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1015·4	0	NNE	6	iro	59	92	7	5	-	-	10	10	1500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1020·1	-10	NNW	6	o	56	85	7	5	-	-	10	10	1500
11	St. Abbs Head	280	1022·7	-2	NNE	3	c	54	85	8	5	3	-	9	10	2500
	Leuchars	36	1023·5	-2	-	0	b	47	92	9	7	-	-	Tr	Tr	4000
12	Renfrew (Abbots I.)	19	1023·4	+4	-	0	c	51	92	7	5	-	-	9	9	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1021·9	-2	ENE	4	bc	55	85	8	1	-	-	2-3	2-3	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	30	1023·2	-8	-	0	b	51	92	8	1	-	-	Tr	Tr	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1024·2	-4	SSE	2	bc	43	97	9	7	4	-	2-3	4-6	2500
16	Lerwick	156	1023·9	+4	NNW	1	bc	50	97	8	4	-	-	2-3	2-3	2500
17	Blacksod Point	18	1021·7	-12	S	2	b	56	92	8	-	-	-	0	0	-
18	Malin Head	84	1022·9	-4	SW	1	b	49	92	8	-	-	-	0	0	-
	Aldergrove	266	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1022·1	-2	-	0	b	55	92	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1010·9	0	NNE	4	iro	59	85	6	5	–	–	9+	9+	1600	1	*
Croydon	1010·4	-2	NNE	3	irc	57	97	5	6	2	–	9+	10	450	1	*
S. Farnborough	1010·6	+2	NE	3	iro	57	92	7	6	2	–	9+	10	1500	1	*
Boscombe Down	1011·9	-6	NW	4	c	58	92	7	5	7	-	9	10	1600	1	*
Calshot (Sthmtn.)	1009·9	-10	NWN	4	ir	60	85	6	6	7	–	9	9+	800	1	2
Lympne	1009·5	0	NE	3	zo	59	92	6	2	6	–	4-6	4-6	2500	1	§2
Manston	1009·3	+9	NE	2	c	58	92	6	8	–	-	9+	9+	800	1	*
Shoeburyness	1009·9	+2	NE	3	PR	60	97	6	9	6	3	7-8	9+	450	1	*
Felixstowe	1010·1	+2	NNE	3	tlr	59	92	6	9	2	–	9+	10	450	2	2
Gorleston	1011·1	0	NE	5	tlro	61	97	5	6	–	–	10	10	800	1	3
Mildenhall	1011·9	+4	NE	3	iro	58	97	7	9	7	–	7-8	9+	1500	1	*
Cranwell	1014·6	0	NNE	4	zo	59	97	6	5	–	–	9+	10	800	1	*
Birmingham	1015·4	0	N	2	c	56	92	6	6	–	-	10	10	800	1	*
Upper Heyford	1013·3	+2	N	4	iro	59	92	6	9	9	–	7-8	9+	450	1	*
Ross-on-Wye	1016·1	-6	N	3	c/r	55	97	6	6	–	-	10	10	1500	1	*
Hartland Point	1015·5	0	NE	5	c	57	85	8	8	6	–	4-6	7-8	1500	0	3
Bristol	1014·3	-2	N	4	c/r	57	85	6	5	3	–	7-8	9+	800	1	*
Portland Bill	1011·9	+4	N	4	c	59	92	7	5	–	–	10	10	4000	1	3
Plymouth	1014·6	-4	NE	4	zo	57	85	6	5	–	–	9+	9+	4000	1	1
The Lizard	1015·9	0	NW	3	bc	56	92	7	7	4	–	2-3	2-3	4000	0	1
Scilly (St.Mary's)	1017·1	-2	NE	4	b	57	92	6	2	–	–	1	1	2500	0	3
Guernsey	1012·1	-2	NW	5	c	57	92	6	8	3	–	4-6	7-8	450	1	3
Pembroke	1017·4	-4	NNE	4	bc	58	92	7	5	4	–	4-6	4-6	2500	1	2
Holyhead	1018·6	-4	NNE	4	b	57	85	8	2	3	–	Tr	Tr	2500	1	2
Chester(Sealand)	1018·1	-2	NWN	2	c	55	85	8	5	–	-	10	10	2500	1	*
Manchester	1017·4	-2	NE	3	zo	57	85	6	6	7	–	7-8	10	1500	1	*
Spurn Head	1014·3	-2	NNE	5	c	59	92	6	–	4	–	0	7-8	–	1	4
Catterick	1018·3	-2	N	3	c	55	85	7	5	2	–	4-6	10	800	1	*
Tynemouth	1018·6	-6	N	5	c	55	85	7	6	–	–	10	10	1500	1	3
St. Abbs Head	1020·4	-10	N	3	c	54	85	8	5	2	–	7-8	10	2500	0	3
Leuchars	1021·7	-2	N	2	c	52	85	8	5	-	-	9+	9+	1500	0	*
Renfrew (Abbots I.)	1021·8	-6	ENE	2	c	54	75	8	5	–	–	9+	9+	2500	0	*
Eskdalemuir	1020·3	-2	NNE	3	c	51	85	8	5	–	–	10	10	1500	1	*
Point of Ayre	1019·6	-4	ENE	4	bc	56	85	8	4	–	–	2-3	2-3	2500	0	3
Tiree	1020·7	-2	SSE	2	bc	58	92	8	2	–	–	2-3	2-3	2500	0	2
Stornoway	1021·4	-10	–	0	b	57	85	9	–	–	–	0	0	–	0	0
Dalwhinnie	1021·9	-8	NNE	1	b	44	92	8	–	–	–	0	0	–	1	*
Aberdeen	1021·8	-2	NNW	1	c	54	85	8	5	–	–	9+	9+	2500	0	1
Wick	1021·9	-10	S	1	bc	48	97	8	5	7	-	1	2-3	2500	1	1
Lerwick	1022·8	-6	NE	1	bc	56	85	8	5	–	1	2-3	2-3	2500	0	*
Blacksod Point	1020·0	-6	–	0	bc	55	97	8	–	5	–	0	4-6	–	0	0
Malin Head	1021·1	-6	S	1	b	56	85	8	–	–	–	0	0	–	0	1
Aldergrove	1020·8	-6	–	0	b	53	85	7	5	–	–	1	1	4000	†	"
Birr Castle	1020·6	-2	W	1	f	44	97	3	5	–	–	10	10	2500	1	*
Valentia Obsy. †	1020·1	-8	NE'E	1	b	51	92	8	1	–	5	Tr	Tr	4000	0	1
Roches Point	1019·5	-4	N	3	b	54	85	8	–	–	–	0	0	–	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 4th Hrs. (36)
London (Kew)	66	56	55	4	19	1·7
Croydon	65	55	55	17	17	1·5
S. Farnborough	65	57	55	3	12	1·7
Boscombe Down	64	56	54	8	1	1·4
Calshot (Sthmtn.)	67	58	56	4	1	1·4
Lympne	66	54	63	2	18	8·0
Manston	66	57	55	–	11	8·9
Shoeburyness	69	57	53	0·3	17	6·2
Felixstowe	68	57	56	2	34	6·9
Gorleston	65	57	55	0·2	12	3·7
Mildenhall	67	55	54	Tr	4	2·9
Cranwell	62	57	56	1	5	0·2
Birmingham	61	55	53	2	2	0·5
Upper Heyford	64	56	54	6	4	*
Ross-on-Wye	63	55	54	2	1	0·3
Hartland Point	65	56	54	Tr	Tr	5·9
Bristol	64	56	53	3	0·2	1·2
Portland Bill	62	55	*	6	1	
Plymouth	66	56	54	0·2	–	3·1
The Lizard	67	53	*	–	–	16·3
Scilly (St.Mary's)	64	56	*	–	–	12·4
Guernsey	64	56	54	1	Tr	6·2
Pembroke	65	53	*	–	–	9·3
Holyhead	61	54	51	–	–	8·0
Chester(Sealand)	65	54	50	–	–	2·2
Manchester	63	53	49	–	–	1·7
Spurn Head	67	57	*	1	1	0·5
Catterick	65	53	51	1	Tr	0·0
Tynemouth	59	55	53	–	–	2·4
St. Abbs Head	57	53	*	–	–	*
Leuchars	61	45	33	–	–	11·8
Renfrew (Abbots I.)	66	50	45	–	–	7·8
Eskdalemuir	60	46	42	–	–	6·9
Point of Ayre	63	53	*	–	–	14·1
Tiree	62	47	37	–	–	15·1
Stornoway	61	49	*	–	–	14·8
Dalwhinnie	61	31	24	–	–	9·1
Aberdeen	60	45	41	–	–	12·4
Wick	57	40	*	–	–	*
Lerwick	59	48	*	–	–	11·0
Blacksod Point	63	47	*	–	–	*
Malin Head	59	47	*	–	–	14·0
Aldergrove	63	46	42	–	–	13·5
Birr Castle	67	41	33	–	–	12·7
Valentia Obsy. †	65	47	40	–	Tr	12·4
Roches Point	67	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.
Kew	18	czoprtc	cgtlPRcp	rcmobcp	66	56	55	4	19	1·7	•	•	6
Croydon	217	PRTlrgmb	tlrfm	cprcmdR	65	55	55	17	17	1·5	•	•	6
Greenwich (Royal Observatory)	149	cirRt	cirRtl	cirbcrr	64	56	53	14	14	0·7	92	95	•
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	*	•	•	•
Westminster (St. James' Park)	27	•	•	•	67	51	50	20		1·3	81	93	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	67	55	52	8	13	*	83	83	•
Camden Square	110	c	c	•	65	56	55	10	17	*	•	89	•
Kensington	80	bc	cTLR	•	67	56	54	11	13	1·1	87 At 18h	85	•
Hampstead Observatory	450	orbcto	c	cor	63	53	53	5	19	*	•	90	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
<0·3	The	whole	period

Kew Observatory.

Max.	Time.	Min.	Time.
0·1	14 4th	<0·1	12-13h 4th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 4th August Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 5th August 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	1010·6	SW	2	c	61	1010·3	SSE	3	zo	55	64	54	0·3	2
Brussels	1009·0	E	2	c	61	1012·1	S	3	bc	57	*	52	*	0·3
Berlin	1011·9	WSW	1	bc	70	1013·9	NE	1	bc	68	70	*	—	—
Zürich	1012·4	NW	3	r	61	1012·2	NW	2	o	55	75	*	2	4
Rome	1011·3	SSE	6	bc	77						*	*	*	

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 6th August, 1939.
No. 28381.

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

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)	1010.6	-4	NNE	4	c	61	75	7	8	2	-	7-8	10	2500
	Croydon	1010.1	-6	NE'N	3	c	63	85	6	9	6	-	9	9+	1500
	S. Farnborough	1010.5	-4	N'E	3	pr	63	75	7	8	3	-	7-8	9+	4000
	Boscombe Down	1011.4	-6	N	5	pr	63	75	7	8	-	-	9+	9+	1500
	Calshot (Soton.)	1010.7	-2	SW'W	4	c/pr	63	85	7	8	7	8	4-6	9+	1500
	Lympne	1009.8	-2	NE'E	3	c	63	75	7	2	-	3	4-6	7-8	2500
	Manston	1009.6	+2	NE	3	c	61	75	6	8	-	-	9	9	1500
2	Shoeburyness	1009.9	-2	E'N	3	c	64	75	8	8	-	8	4-6	9+	1500
	Felixstowe	1009.8	-4	SE	3	c	63	75	8	5	-	-	9+	9+	2500
	Gorleston	1010.7	-2	ENE	3	c	61	85	7	8	3	-	4-6	7-8	2500
	Mildenhall	1010.9	-6	NNE	1	rr	55	97	7	9	7	-	9	9+	1500
	Cranwell	1012.8	-14	N	3	r/tlr	60	92	7	6	2	-	9	10	800
3	Birmingham	1013.8	-10	N	3	pr	61	75	6	8	7	-	4-6	9	1500
	Upper Heyford	1012.3	-6	N'E	4	pr	61	85	7	8	7	-	7-8	9+	1500
4	Ross-on-Wye	1013.3	-10	NW'N	3	z$_o$	64	75	6	8	-	-	9	9	2500
5	Hartland Point	1014.6	-4	N	3	bc	60	85	7	8	-	-	4-6	4-6	1500
	Bristol	1013.0	-12	N	4	c	65	75	7	8	6	-	4-6	7-8	2500
	Portland Bill	1011.9	+2	NE	3	c	62	85	7	5	4	-	4-6	10	4000
	Plymouth	1013.4	-6	N'E	4	c	65	65	7	8	7	-	2-3	7-8	1500
	The Lizard	1014.8	-6	NW'N	3	bc	65	75	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1016.2	-6	N	4	bc	63	85	7	2	-	-	2-3	2-3	2500
	Guernsey	1012.1	0	N'W	4	c	60	92	6	8	2	-	9	10	1500
6	Pembroke	1016.2	-10	NNE	4	bcq	63	85	7	8	4	-	2-3	4-6	2500
7	Holyhead	1017.1	-10	NE	3	c	60	85	8	8	3	-	4-6	7-8	2500
	Chester (Sealand)	1015.8	-18	N	3	c/r	63	75	6	7	-	-	9	9	4000
8	Manchester	1015.5	-10	NNE	4	z$_o$	62	75	6	7	3	-	7-8	9+	2500
10	Spurn Head	1012.3	-10	N'E	5	iR	59	97	5	5	-	-	10	10	450
	Catterick	1016.4	-10	N	3	c	59	75	7	5	7	-	7-8	9+	1500
	Tynemouth	1016.9	-8	N	5	c	57	85	7	8	-	-	9+	9+	1500
11	St. Abbs Head	1018.7	-16	NNE	4	c	54	85	8	5	2	-	7-8	10	2500
	Leuchars	1019.3	-14	E	2	bc	62	65	8	7	-	-	2-3	2-3	4000
12	Renfrew (Abbotsl.)	1019.3	-18	E'S	2	bc	63	65	8	1	-	-	4-6	4-6	4000
	Eskdalemuir	1017.8	-10	NE'N	3	c	58	75	8	5	-	-	7-8	7-8	1500
	Point of Ayre	1017.7	-14	NNE	2	b	62	75	8	1	-	-	1	1	4000
13A	Tiree	1019.0	-4	S	2	bc	63	75	8	2	-	-	2-3	2-3	4000
13B	Stornoway	1020.6	-10	SE	2	b	59	85	9	2	-	-	Tr	Tr	4000
15	Dalwhinnie	*	-18	NNE	1	bc	67	59	8	4	6	-	2-3	4-6	4000
	Aberdeen	1019.6	-14	NE	3	b	59	75	8	1	-	-	1	1	2500
	Wick	1020.7	-10	ESE	2	bc	55	85	8	7	4	-	1	2-3	1500
16	Lerwick	1019.9	-28	E	2	bc	59	75	8	5	3	-	2-3	4-6	2500
17	Blacksod Point	1017.8	-12	WSW	2	bc	63	75	8	2	-	3	2-3	2-3	4000
18	Malin Head	1019.1	-8	E	4	bc	58	85	8	2	-	-	2-3	2-3	5700
	Aldergrove	1018.5	-18	ENE	3	bc	61	65	7	5	-	-	4-6	4-6	2500
19	Birr Castle	1017.2	-12	NNW	1	bc	65	65	8	1	-	-	4-6	4-6	2500
20	Valentia Obsy.†	1018.7	-6	W	3	bc	60	85	8	2	3	5	2-3	2-3	1500
	Roches Point	1018.0	-10	ESE	3	bc	61	75	9	1	-	-	2-3	2-3	4000

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

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)	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)	1010.2	-4	NNE	3	bc	61	75	8	8	-	-	4-6	4-6	2500	1	*
	Croydon	1010.0	-2	N'W	2	c	62	75	7	3	3	3	4-6	9+	2500	1	*
	S. Farnborough	1010.3	+2	NNW	2	bc	61	75	8	8	3	8	1	4-6	4000	1	*
	Boscombe Down	1011.2	-2	NW	3	bc/pr	58	92	7	2	3	1	1	4-6	2500	1	*
	Calshot (Soton.)	1010.4	-2	NW'N	4	bc	64	75	8	8	8	8	1	2-3	2500	1	1
	Lympne	1010.0	+2	ESE	1	bcjp	59	85	7	3	-	1	4-6	4-6	2500	1	§ [illegible]
	Manston	1009.5	0	NE'N	1	bc	61	75	6	2	4	2	1	2-3	2500	1	*
2	Shoeburyness	1009.6	-2	—	0	cjp	61	75	8	8	9	3	2-3	7-8	2500	1	*
	Felixstowe	1009.4	-2	SE	2	c	61	85	8	8	7	-	4-6	9+	2500	1	1
	Gorleston	1009.9	-2	E'S	2	c	62	75	6	8	-	-	7-8	7-8	2500	1	2
	Mildenhall	1009.9	-6	NW	2	c/r	58	97	7	8	-	-	9+	9+	1500	1	*
	Cranwell	1010.9	-10	N	4	c/pr	59	92	6	5	7	-	9	9+	1500	1	*
3	Birmingham	1012.5	-4	N	3	pr	58	85	6	6	7	-	4-6	9+	800	1	*
	Upper Heyford	1011.5	-8	N'W	2	rr	57	97	6	6	7	-	7-8	10	800	1	*
4	Ross-on-Wye	1012.4	-12	NW	3	z$_o$	61	85	6	8	-	1	4-6	7-8	2500	1	*
5	Hartland Point	1013.2	-6	NNW	3	bc	61	85	8	2	3	-	1	4-6	2500	0	2
	Bristol	1012.7	0	NNW	3	c/r	58	85	6	9	6	-	7-8	9+	1500	1	*
	Portland Bill	1012.4	+12	NE	3	c	61	85	7	5	4	-	4-6	9	4000	1	2
	Plymouth	1012.6	-6	NNW	4	bc	65	65	8	1	3	-	2-3	4-6	2500	0	1
	The Lizard	1014.2	-6	NW	4	bc	61	85	8	8	-	-	4-6	4-6	2500	0	2
	Scilly (St. Mary's)	1015.3	-4	N	4	bc	60	92	7	2	-	-	2-3	2-3	2500	0	2
	Guernsey	1012.0	0	WN	3	z$_o$	61	85	6	8	2	-	4-6	7-8	2500	0	3
6	Pembroke	1014.6	-8	N'E	4	bcq	59	85	7	2	6	-	2-3	4-6	2500	1	1
7	Holyhead	1014.7	-14	NNW	3	b	59	85	8	-	4	-	0	Tr	-	1	2
	Chester (Sealand)	1013.5	-14	NW'W	3	c	61	85	7	8	-	-	9	9	2500	1	*
8	Manchester	1012.5	-20	NNE	3	pr	58	85	6	8	3	-	7-8	9+	2500	1	*
10	Spurn Head	1010.3	-14	NE'N	3	c	58	97	6	5	3	-	4-6	9+	220	2	2
	Catterick	1013.2	-18	N'W	3	rr	56	97	6	6	-	-	10	10	450	1	*
	Tynemouth	1013.9	-16	N	4	o/r	56	92	6	-	2	-	10	10	1500	1	3.
11	St. Abbs Head	1016.2	-16	NNE	3	o	54	97	7	5	-	-	10	10	1500	0	2
	Leuchars	1016.8	-16	ENE	3	bc	59	75	8	8	-	-	4-6	4-6	1500	0	*
12	Renfrew (Abbotsl.)	1016.5	-14	E	2	bc	65	65	7	1	6	-	4-6	4-6	2500	0	*
	Eskdalemuir	1014.8	-16	NNE	3	bc	60	65	9	5	4	6	Tr	2-3	2500	1	*
	Point of Ayre	1015.5	-20	N'W	2	bc	61	85	8	5	-	-	2-3	2-3	4000	0	2
13A	Tiree	1016.7	-10	W'N	1	b	59	75	8	-	-	5	0	Tr	-	0	1
13B	Stornoway	1018.6	-14	NE	3	b	61	75	9	1	-	-	Tr	Tr	4000	0	2
15	Dalwhinnie	1016.4	-8	S	2	c	62	65	8	4	2	-	4-6	9+	4000	0	*
	Aberdeen	1017.2	-16	NE'N	3	b	58	85	8	5	-	9	1	1	1500	0	2
	Wick	1018.7	-12	ENE	3	b	55	85	8	7	-	-	1	1	2500	0	1
16	Lerwick	1019.3	0	E	2	bc	56	85	8	5	-	-	2-3	2-3	2500	0	*
17	Blacksod Point	1016.0	-10	WSW	3	c	58	85	8	4	3	3	2-3	7-8	1500	0	1
18	Malin Head	1017.0	-14	E	4	bc	59	65	8	-	4	-	0	2-3	-	0	2
	Aldergrove	1016.2	-16	ENE	1	b	63	65	7	-	-	-	0	0	-	1	*
19	Birr Castle	1015.7	-16	NNW	1	bc	68	65	8	1	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.†	1017.3	-10	WNW	2	r$_o$r$_o$	57	85	8	9	3	-	9	9+	1500	1	1
	Roches Point	1015.8	-10	SW	3	bc	64	75	9	1	3	-	2-3	2-3	4000	1	1

PAST 24 HOURS. — Weather

District	Stations	7h.–13h. 5th (37)	13h.–18h. 5th (38)	18h. 5th, to 1h. 6th (39)	1h.–7h. 6th (40)
1	London (Kew)	cir$_o$c	cpr$_o$cbc	bcw	bcom$_o$w
	Croydon	rrpr$_o$m$_o$t	cpr$_o$cbc	cbcm$_o$c	bccm$_o$w
	S. Farnborough	cprpr$_o$	cpr$_o$cbc	cbcbbc	bcwcm$_o$
	Boscombe Down	cr$_o$ir$_o$pr$_o$c	cpr$_o$cpr$_o$c	cbcm$_o$bm$_o$	cm$_o$
	Calshot (Soton.)	circpr$_o$q	pr$_o$tbc	bcbbcc	bcbbc
	Lympne	bcm$_o$tc	cbcc	bcbm$_o$ fg	bfwom
	Manston	cm$_o$	cbcm$_o$	bcbm$_o$w	cm$_o$d$_o$
2	Shoeburyness	TLRRc⊕	cbc	bcb	b,cp$_o$m$_o$c
	Felixstowe	ctlRRc	bctc	cbm w	bmwof
	Gorleston	ctlRRrrc	cbcc	cpr$_o$lbcb	bbc ffFe
	Mildenhall	crrtlhrr	crrtlr$_o$r$_o$	rrbfoffe	cffeffe
	Cranwell	cctlrPR	torrprc	cid$_o$cm$_o$	ofbc,om
3	Birmingham	oc	cpr$_o$	cor	ro
	Upper Heyford	cir$_o$	cTLRpr	cirir$_o$m$_o$	cm$_o$
4	Ross-on-Wye	oz$_o$cz$_o$c	prct,PRpcz$_o$	PRcpr$_o$c	cbc
5	Hartland Point	cbc	bccbc	bc	bc
	Bristol	cm$_o$	cpr$_o$Rr$_o$	cbccm$_o$	cbcbmw
	Portland Bill	c	ctr$_o$	bcc	cbc
	Plymouth	cm$_o$c	cbc	bccb	b,cbbc
	The Lizard	bccbc	bccbc	bcw	bcw
	Scilly (St. Mary's)	bccbc	bc	bccw	cbcwc
	Guernsey	czbcc	cz	c	cwz
6	Pembroke	bcq	bcq	bcw	bcw
7	Holyhead	bbc	bcq,b	bw	bbcw
	Chester (Sealand)	cz$_o$r$_o$	cz$_o$c	cir$_o$rr$_o$m$_o$	cddm$_o$bc
8	Manchester	cm$_o$c	cz$_o$cpr$_o$	cm$_o$pr$_o$	cm$_o$prcm
10	Spurn Head	cqirc	iRqc	ftlrc	prtc
	Catterick	r$_o$d$_o$cmz$_o$c	m$_o$d$_o$r$_o$rr	rr CRR	rrR ir$_o$
	Tynemouth	oc	coir	olr$_o$ ir	oir rro
11	St. Abbs Head	c	c⊕	Firf	fmrrc
	Leuchars	cbcb	bcc	bcocm$_o$c	r$_o$r$_o$ircir$_o$
12	Renfrew (Abbotsl.)	cbc	bc	bcbbcm$_o$w	bccm$_o$fgw
	Eskdalemuir	c	cbc	bc	bc
	Point of Ayre	bcb	b	bcc w	cbc
13A	Tiree	bc	bcb	bw	bbccw
13B	Stornoway	b	b	bbcw	bccw
15	Dalwhinnie	bc	bc	*	cir$_o$
	Aberdeen	cbcb	b	b, ciR	cr$_o$ciR
	Wick	bcb	b	bbcc	r$_o$rrc
16	Lerwick	bc	bc	bcc	cir
17	Blacksod Point	bc	bc	ir$_o$	iR
18	Malin Head	bc	bc	bc	bcc
	Aldergrove	b,cbc	bcb	bbm$_o$	bbcm$_o$w
19	Birr Castle	offbc	bc	bc	bcc
20	Valentia Obsy.†	bbc	bccr$_o$r$_o$	r$_o$c	dd
	Roches Point	bbc	bc	bc	cir$_o$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.
:f, 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.

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.

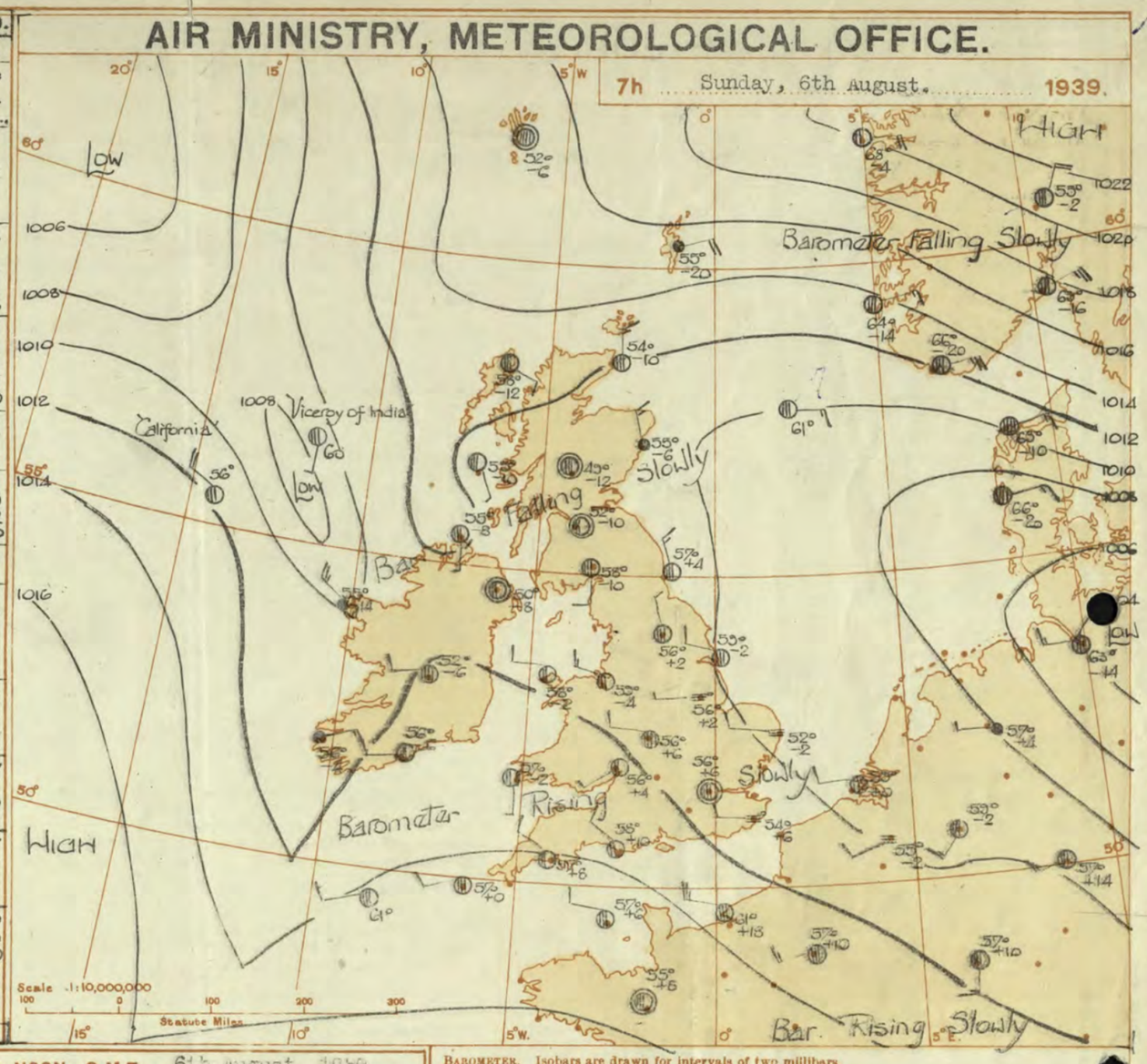
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 5th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 4th to 9h. 5th	Temperature. (°F) Max. 9h.—17h. 5th	Rainfall. (mm.) Night. 17h. 4th to 9h. 5th	Rainfall. (mm.) Day. 9h.—17h. 5th	Sunshine. (Hrs.) Sunrise to 17h. 5th	Sunshine. (Hrs.) Sunrise to Sunset. 4th
1	Tunbridge W.	tlroc	obc	55	66	19	3	3.2	4.7
	Bournemouth	cbcc	cPbc	56	67	2	2	3.5	1.6
	Ventnor ...	rcpb	btpb	57	68	2	3	6.4	5.2
	Southsea ...	cpcbc	cb	58	68	3	1	4.9	3.4
	Bognor Regis	bcbc	bcbcc	56	68	7	–	5.9	6.3
	Littlehampton	bccpc	cbcc	56	70	9	0.5	4.9	6.2
	Worthing ...	cRbc	bccir	56	68	7	7	4.7	6.1
	Brighton ...	crbcc	crltc	56	69	3	6	4.1	4.5
	Eastbourne† ...	c	c	56	68	5	–	3.5	6.4
	Hastings† ...	cop	cbcc	55	66	10	0.5	4.7	5.6
	Folkestone ...	crcbc	bcb	55	66	15	Tr.	5.5	8.9
	Dover ...	tlroc	cbc	57	66	24	–	8.0	7.9
	Deal	bccbc	bcb	57	66	21	–	8.1	7.3
	Ramsgate ...	bc	bc	57	64	14	–	7.5	8.6
	Margate ...	bc	bc	58	63	9	–	6.9	9.0
2	Southend ...	orc	c	56	64	21	3	1.7	4.8
	Clacton-on-Sea	tlrrc	cbcc	57	63	37	–	1.7	7.7
	Dovercourt ...	tlroc	bcc	57	66	33	0.5	2.0	6.3
	Lowestoft ...	cTLR	cbc	55	62	28	8	2.0	4.4
	Skegness ...	o	oGbc	59	63	Tr.	Tr.	1.4	1.3
	Mablethorpe...	or	bcc	58	61	0.3	2	1.4	0.2
	Cleethorpes ...	ocir	oPb	58	61	2	3	0.0	0.0
3	Leamington S.	oc	optlo	58	64	4	10	0.5	1.0
4	Cheltenham†	ocbc	cirtc	54	66	4	2	2.5	1.1
5	Bath	cp.	cbcpc	57	68	0.5	1	2.3	1.0
	Weymouth ...	cbcb	ctlhc	57	68	2	5	3.9	2.9
	Jersey ...	cbc	bcc	58	67	–	–	5.1	10.9
	Torquay ...	bc	bcby	58	69	–	–	6.9	1.1
	Falmouth ...	b	b	56	66	–	–	8.7	8.8
	Penzance ...	bcb	b	56	67	–	–	10.0	11.2
	St. Ives ...	b	b	55	64	–	–	8.8	8.6
	Bude... ...	cbc	bc	56	66	–	–	5.7	6.5
	Ilfracombe ...	ocbc	obcz	58	66	–	–	3.9	0.9
6	Aberystwyth	bcc	cbc	55	65	–	–	5.0	4.7
7	Llandudno ...	c	cbc	57	61	–	–	1.9	1.0
	Colwyn Bay...	c	cbc	57	61	–	–	0.7	0.0
	Rhyl	crob	cbc	57	64	Tr.	Tr.	1.3	1.6
8	Wallasey ...	c	cbc	54	63	–	–	1.9	2.7
	Southport ...	bco	obc	52	66	–	–	1.0	2.5
	Blackpool ...	c	cbcb	53	66	–	–	2.3	8.6
	Morecambe ...	cbc	bc	55	66	–	–	1.9	11.7
9	Ilkley... ...	bco	cop	54	62	–	–	1.5	0.0
	Harrogate ...	oc	codlo	53	60	Tr.	0.4	0.2	0.0
10	Berwick-on-T.	o	co	53	57	–	–	0.3	0.0
11	Dunbar ...	cmo	bc	52	59	–	–	3.5	8.3
12	Troon... ...	ococ	bcbbc	49	64	–	–	5.0	6.0
	Douglas ..	b	b	51	65	–	–	9.1	14.1

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind northwest to north, light, becoming variable; bright intervals; some showers and local thunder; some mist or fog early; rather low to average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light variable wind, backing south; mainly fair at first apart from slight local rain or thundery showers; rain spreading slowly from west later; rather low to average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light variable to northerly wind; cloudy; occasional rain; a few bright periods; local coastal fog; rather cool.
12 S.W. Scotland & Isle of Man.	As 4 - 8.
13 A. W. Scotld. / B.N.W.Scotland.	Light variable or southerly wind; cloudy; occasional rain; rather cool.
14 Mid Scotland	
15 N. E. Scotland 16 Orkney and Shetland	Wind northeast to east, light or moderate; cloudy; occasional rain; coastal fog patches; average temperature.
17 N. W. Ireland	Light variable wind, becoming west or northwest moderate; a period of rain spreading from west; showers later; rather cool.
18 N. E. Ireland	
19 S. E. Ireland	Light variable to southerly wind, becoming northwest moderate; a few bright periods at first; rain later followed by showers; rather cool.
20 S. W. Ireland	As (17)

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

GENERAL INFERENCE.

A feeble wedge of high pressure over Southwest England and a trough of low pressure over Western Ireland are moving slowly east. A depression over North Germany is moving northwest. Cloudy weather with occasional rain or showers will occur in Eastern districts, but considerable bright periods will occur at first in the West and South. Rain will spread slowly from Ireland to western districts of England and Wales later. There will be local thunderstorms in many districts.

FURTHER OUTLOOK.

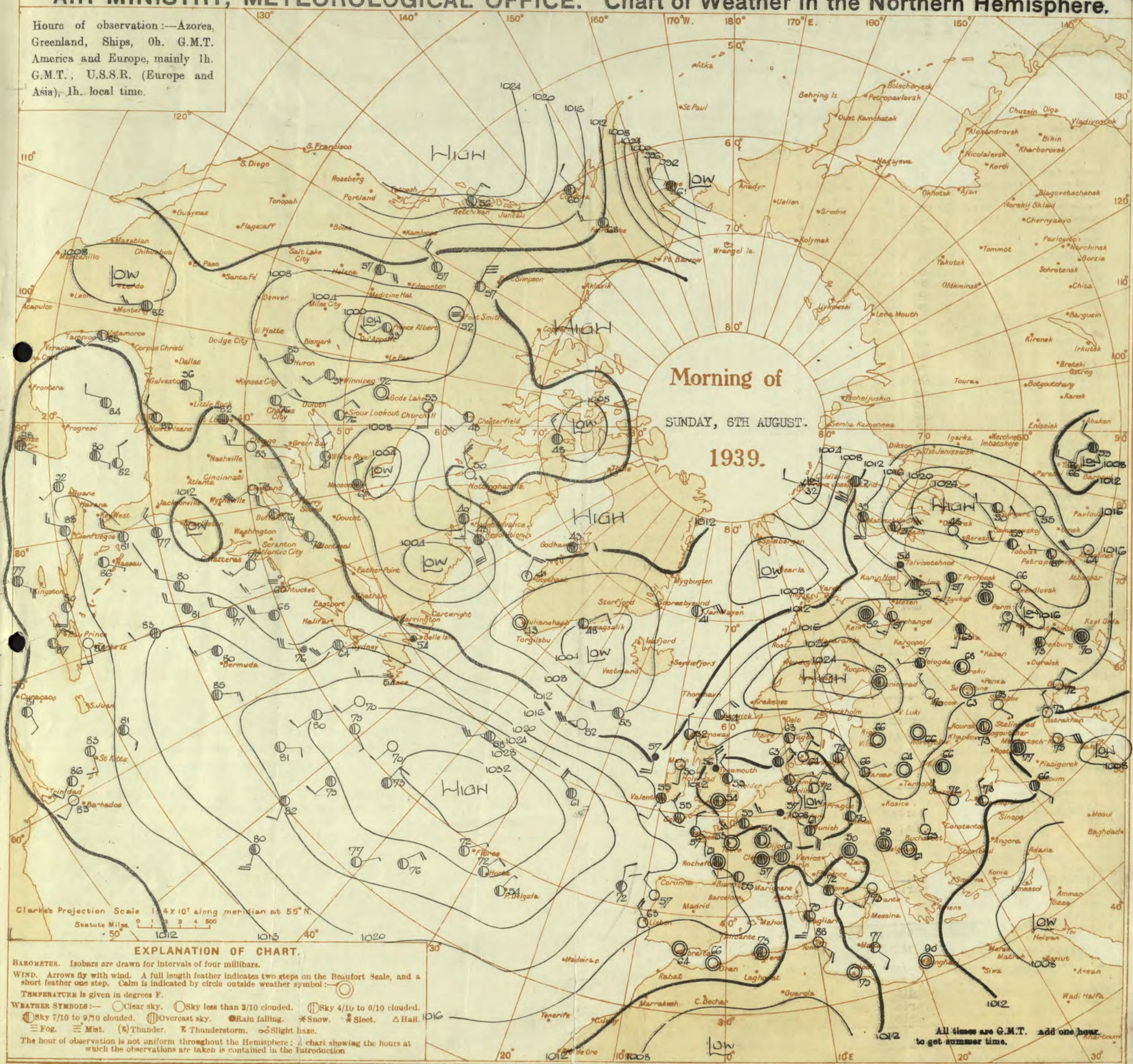
Unsettled.

Forecasts issued at 0930 G.M.T.

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

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, 6th August, 1939.

No. 28381.

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

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	1011·4	+2	–	0	z.	54	97	6	5	3	–	2-3	2-3	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1012·2	+2	WNW	2	z.	53	97	6	–	3	–	0	4-6	–
	Calshot (Sthmtn.)	8	1011·8	+6	W	3	c	55	97	7	5	–	–	9+	9+	4000
	Lympne	346	1010·7	-2	NNW	2	fg	52	97	6	–	–	–	0	0	–
	Manston	154	1010·1	-2	W	2	z.	52	97	6	5	–	–	2-3	2-3	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1010·1	-2	NNW	3	m	55	97	4	–	–	–	0	0	–
	Gorleston	5	1009·6	-4	WN	2	b	54	92	7	–	–	–	0	0	–
	Mildenhall	19	1009·7	-4	WSW	2	cf-	53	97	3	5	–	–	9+	9+	800
	Cranwell	240	1010·4	-2	NNW	1	of+	56	97	3	5	–	–	10	10	800
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1016·7	+2	N	2	bc	56	92	8	6	1	–	1	4-6	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1012·3	+4	N	2	c	57	85	7	5	–	–	7-8	7-8	4000
	Plymouth	82	1013·7	+4	NNW	3	b	58	85	7	5	–	–	1	1	2500
	The Lizard	240	1015·0	0	W	3	bc	54	97	7	4	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	163	1015·5	-2	NNW	3	c	55	97	8	8	6	9	2-3	7-8	2500
	Guernsey	175	1013·2	+10	NW	3	c	56	97	6	8	2	9	4-6	7-8	2500
6	Pembroke	142	1014·3	0	NW	4	bc	54	97	7	5	–	–	2-3	2-3	2500
7	Holyhead	26	1013·0	-6	NNW	3	b	57	92	7	–	–	–	0	0	–
	Chester (Sealand)	16														
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1009·7	-4	NW	2	c/tr.	53	97	6	9	–	–	10	10	800
	Catterick	175	1010·3	-10	NNW	2	id.	56	97	6	5	–	–	10	10	800
	Tynemouth	108	1011·0	-14	N	4	ir	56	97	6	–	2	–	10	10	1500
11	St. Abbs Head	280	1012·3	-20	NNE	2	f	55	97	3	–	–	–	10	10	<150
	Leuchars	36	1013·7	-14	–	0	c	54	97	7	5	–	–	9+	9+	800
12	Renfrew (Abbots I.)	19	1014·4	-10	NE	1	z.	50	97	6	5	–	–	4-6	4-6	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1013·2	-6	NE	1	c	58	92	8	5	–	–	9+	9+	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1015·8	-6	N	1	bc	52	92	8	5	4	–	2-3	4-6	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1015·4	-12	NE	2	c	53	97	8	5	7	–	4-6	7-8	1500
16	Lerwick	156	1015·0	-4	NE	4	c	54	92	8	5	7	–	4-6	10	800
17	Blacksod Point	18	1013·2	-20	S	4	ir	55	92	7	6	–	–	10	10	<150
18	Malin Head	84	1014·4	-14	S	1	b	50	85	7	–	–	–	0	0	–
	Aldergrove	268	1014·2	-6	–	0	z.	48	92	6	–	3	–	0	Tr	–
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1015·2	-10	S	2	o	55	97	8	5	–	–	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1011·8	+8	–	0	z.	57	92	6	5	–	–	10	10	1500	1	*
Croydon	1011·7	+6	–	0	z.	56	97	5	5	–	–	10	10	800	1	*
S. Farnborough	1011·8	+8	W	2	z.	56	92	6	5	2	–	4-6	10	2500	1	*
Boscombe Down	1012·3	+4	WNW	2	z.	55	92	6	5	3	–	4-6	7-8	4000	1	*
Calshot (Sthmtn.)	1012·4	+6	W	2	z.	56	92	5	5	–	–	4-6	4-6	4000	1	§ 1
Lympne	1011·8	+6	WNW	2	m	54	92	4	5	–	–	10	10	450	1	1
Manston	1010·8	0	W	3	c/d	55	97	6	5	–	–	9	9	800	1	*
Shoeburyness	1011·0	+4	–	0	c	57	97	6	5	–	–	10	10	1500	1	*
Felixstowe	1010·2	-2	WNW	3	z.	56	97	6	5	–	6	Tr	2-3	1500	1	2
Gorleston	1009·6	-2	WN	2	bF	52	97	1	5	–	–	4-6	4-6	450	1	2
Mildenhall	1010·4	+2	WN	1	m	56	97	4	5	–	–	10	10	220	1	*
Cranwell	1010·4	+2	W	1	m	56	97	4	5	–	–	10	10	450	1	*
Birmingham	1011·7	+6	WNW	2	o	56	97	5	5	–	–	10	10	800	1	*
Upper Heyford	1011·3	+6	NW	3	z.	56	92	6	5	3	–	7-8	9+	800	1	*
Ross-on-Wye	1012·5	+4	SW	1	bc	56	85	7	5	–	–	2-3	2-3	2500	1	*
Hartland Point	1013·5	+2	N	2	bc	55	75	8	4	4	2	2-3	4-6	1500	0	2
Bristol	1012·7	+6	WNW	3	z.	57	85	6	–	3	–	0	1	–	1	*
Portland Bill	1013·1	+10	NW	2	bc	58	85	7	5	–	–	4-6	4-6	4000	1	3
Plymouth	1014·3	+8	NW	2	bc	57	85	7	–	–	4	0	4-6	–	0	0
The Lizard	1014·6	+4	W	3	bc	56	97	8	7	7	–	2-3	4-6	4000	1	2
Scilly (St. Mary's)	1015·1	0	WSW	2	c	57	97	8	8	7	9	4-6	9	2500	0	2
Guernsey	1013·8	+6	WNW	2	z.	57	97	6	8	–	–	9+	9+	450	0	3
Pembroke	1013·1	-2	SE	1	bc	57	92	7	1	7	1	1	4-6	2500	1	1
Holyhead	1011·8	-2	WNW	2	bc	58	85	7	5	–	–	4-6	4-6	4000	1	2
Chester (Sealand)	1011·3	-4	WNW	3	z.	55	85	6	5	3	–	2-3	7-8	2500	1	*
Manchester	1011·0	0	SSW	1	z.	57	97	6	5	–	–	2-3	2-3	5700	1	*
Spurn Head	1009·7	-2	WNW	2	c	55	92	6	5	–	–	9+	9+	800	1	2
Catterick	1010·7	+2	NW	1	c	56	92	7	5	–	–	9+	9+	1500	1	*
Tynemouth	1010·4	+4	NNW	3	c	57	92	6	8	–	–	9+	9+	1500	1	2
St. Abbs Head	1009·9	-24	WNW	4	c/r	53	97	8	8	2	–	7-8	10	1500	1	2
Leuchars	1010·5	-10	WSW	1	ir.	55	92	8	5	2	–	7-8	10	2500	1	*
Renfrew (Abbots I.)	1011·7	-10	–	0	z.	52	92	6	5	3	4	Tr	2-3	4000	0	*
Eskdalemuir	1010·3	-10	S	2	c	58	85	7	5	3	–	4-6	7-8	800	1	*
Point of Ayre	1011·2	-4	–	0	bc	60	85	8	5	–	4	1	2-3	2500	0	1
Tiree	1011·0	-10	SSE	1	c	55	97	7	1	–	–	1	9	4000	0	1
Stornoway	1013·3	-12	SE	2	c	58	85	9	5	5	1	4-6	7-8	4000	1	1
Dalwhinnie	*	-12	–	0	c	49	92	8	5	–	–	10	10	4000	0	*
Aberdeen	1010·4	-6	NNW	3	iR	55	97	6	5	–	–	9+	9+	1500	1	1
Wick	1011·7	-10	N	3	c	54	97	7	5	2	–	7-8	10	1500	1	2
Lerwick	1014·7	-20	ENE	4	ir	55	97	7	5	2	–	4-6	10	450	1	*
Blacksod Point	1010·1	-14	NW	5	ir	55	97	7	6	–	–	10	10	<150	1	3
Malin Head	1012·2	-8	S	1	c	55	85	8	–	–	4	0	7-8	–	0	0
Aldergrove	1011·8	-8	–	0	z.	50	97	5	–	–	6	0	4-6	–	1	*
Birr Castle	1012·6	-6	W	1	c	52	97	8	5	1	–	7-8	10	2500	1	*
Valentia Obsy. †	1010·6	-4	ENE	3	dd	56	97	6	5	–	–	10	10	800	1	2
Roches Point	1013·0	-6	WS	2	c	56	92	8	–	7	–	0	9	–	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 5th. Hrs. (36)
London (Kew)	64	53	46	0·3	Tr	5·2
Croydon	66	52	48	1	–	2·4
S. Farnborough	66	55	50	0·2	–	5·4
Boscombe Down	64	53	50	2	–	1·3
Calshot (Sthmtn.)	67	54	51	1	–	4·6
Lympne	64	51	48	–	–	5·5
Manston	64	50	42	–	–	6·5
Shoeburyness	67	51	43	4	0·1	2·1
Felixstowe	64	51	51	2	–	1·5
Gorleston	62	51	50	19	0·1	3·4
Mildenhall	63	51	46	24	2	0·0
Cranwell	64	52	50	20	Tr	0·5
Birmingham	63	54	52	1	1	1·0
Upper Heyford	64	54	51	8	1	*
Ross-on-Wye	65	53	48	4	–	2·1
Hartland Point	62	55	50	–	–	4·4
Bristol	65	50	41	2	–	1·5
Portland Bill	62	55	*	11	–	1
Plymouth	67	54	51	–	–	8·0
The Lizard	67	52	*	–	–	11·6
Scilly (St. Mary's)	63	53	*	–	–	12·8
Guernsey	66	55	53	–	–	3·1
Pembroke	64	51	*	–	–	11·7
Holyhead	61	56	53	–	Tr	11·0
Chester (Sealand)	66	56	55	Tr	2	2·1
Manchester	65	54	52	0·1	2	0·8
Spurn Head	61	58	*	4	1	0·3
Catterick	64	54	53	2	11	0·0
Tynemouth	57	55	53	2	9	1·2
St. Abbs Head	55	53	*	–	3	*
Leuchars	62	53	46	–	0·6	7·9
Renfrew (Abbots I.)	66	47	42	–	–	8·1
Eskdalemuir	62	53	51	–	–	6·5
Point of Ayre	64	56	*	–	Tr	12·5
Tiree	(63)	47	37	–	–	15·2
Stornoway	63	52	*	–	–	15·2
Dalwhinnie	68	40	32	–	Tr	8·3
Aberdeen	61	54	53	–	3	11·4
Wick	57	52	*	–	5	*
Lerwick	60	52	*	–	1	14·5
Blacksod Point	63	47	*	–	5	*
Malin Head	60	47	*	–	–	14·1
Aldergrove	64	45	40	–	Tr	13·5
Birr Castle	68	50	41	–	–	11·5
Valentia Obsy. †	61	55	54	0·2	5	8·6
Roches Point	64	55		–	0·3	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	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	circ	cprcbc	bcomw	64	53	46	0·3	Tr	5·2	*	*	6
Croydon	217	rrprmt	cprcbc	bcomw	66	52	48	1	–	2·4	*	*	6
Greenwich (Royal Observatory)	149	crc	cb	bc	64	52	44	0·3	–	2·9	90	90	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	2·9	*	*	*
Westminster (St. James' Park)	27	*	*	*	65	55	50	1		3·5	82	93	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	66	53	46	1	–	*	79	88	*
Camden Square	110	bc	c	*	65	54	49	0·3	–	*	*	90	*
Kensington	80	crbc	bc	*	65	54	48	0·4	Tr	4·5	At 18h 65	89	*
Hampstead Observatory	450	orbc	bc	o	62	52	50	0·5	–	*	*	95	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
<0·3	whole period.		

Kew Observatory Max.	Time.	Min.	Time.
0·1	21-23L 5th.	<0·1	7-15L 6th.

FOREIGN OBSERVATIONS.

18h. G.M.T. 5th August

Stations	Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.
Paris	1010·1	SSE	1	cg	63
Brussels	1010·2	SSE	3	c	63
Berlin	1010·8	E	3	bc	79
Zürich	1011·0	N	3	ir	57
Rome	1012·2	SE	3	bc	79

7h. G.M.T. 6th August

Stations	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	1013·0	WSW	3	z.	57	68	55	4	–
Brussels	1009·8	WSW	2	f	55	64	50	1	–
Berlin	1004·3	SE	5	bc	79	82	70	–	–
Zürich	1015·0	S	2	c	54	61	52	9	*
Rome						*	*	3	

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 7th August, 1939.
No. 28382.

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

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)...	1012.0	+6	WSW	2	c	67	65	8	8	-	-	9	9	4000
	Croydon	1012.2	+2	W'S	2	c	67	65	8	2	6	-	2-3	7-8	4000
	S. Farnborough	1012.1	+2	W	3	c	67	65	8	8	-	-	9	9	4000
	Boscombe Down	1012.7	+2	W'N	3	zo	67	65	7	2	-	-	4-6	4-6	4000
	Calshot (Soton.)	1012.8	+2	SSW	4	bc	69	75	8	2	-	-	2-3	2-3	2500
	Lympne ...	1012.4	+2	W	2	c	64	75	7	8	6	-	7-8	7-8	2500
	Manston ...	1011.6	-4	W'S	3	zo	63	75	6	5	-	-	9+	9+	1500
2	Shoeburyness ...	1011.3	0	WSW	3	bc	66	75	5	8	-	-	4-6	4-6	2500
	Felixstowe ...	1010.9	+2	W	3	bc	68	65	8	7	-	1	4-6	4-6	2500
	Gorleston ...	1009.7	0	WSW	3	c	60	75	7	8	-	-	7-8	7-8	2500
	Mildenhall ...	1010.8	+2	SW'W	2	c	64	75	7	8	-	-	9+	9+	4000
	Cranwell ...	1010.6	+2	NW	2	bc	66	75	7	5	-	-	4-6	4-6	2500
3	Birmingham ...	1011.5	+2	WSW	3	c	65	65	8	8	-	-	7-8	7-8	2500
	Upper Heyford	1012.1	+2	WNW	3	c	66	65	8	8	-	-	9	9	2500
4	Ross-on-Wye ...	1011.9	-4	NW'W	3	c	66	65	8	8	-	-	7-8	7-8	2500
5	Hartland Point	1013.6	+2	WSW	3	c	60	85	8	8	-	3	7-8	9	2500
	Bristol	1013.2	0	W	4	bc	65	75	8	8	6	4	2-3	4-6	2500
	Portland Bill ...	1013.5	+6	W	4	c	61	85	7	4	4	-	4-6	7-8	4000
	Plymouth ...	1014.1	0	WSW	4	c	61	75	8	2	3	3	1	7-8	2500
	The Lizard ...	1014.8	0	SSW	3	bc	63	75	8	7	7	-	2-3	4-6	4000
	Scilly (St. Mary's)	1014.3	-4	SW'W	3	c	62	85	8	8	7	-	2-3	9+	2500
	Guernsey ...	1015.4	+16	W'N	4	bc	60	85	8	8	3	-	4-6	4-6	1500
6	Pembroke ...	1013.1	0	WSW	3	c	61	85	8	2	7	8	2-3	7-8	2500
7	Holyhead ...	1011.5	-2	SSW	3	bc	62	75	8	2	4	6	Tr	4-6	2500
	Chester (Sealand)	1011.5	0	NW'N	4	c	64	75	8	8	-	-	7-8	7-8	2500
8	Manchester ...	1011.0	0	W	4	bc	66	75	7	2	3	-	4-6	4-6	4000
10	Spurn Head ...	1010.5	+4	N'E	1	c/d	60	92	7	5	3	-	9+	10	800
	Catterick ...	1009.7	-6	-	0	c	65	65	7	8	3	-	4-6	7-8	2500
	Tynemouth ...	1010.1	-4	NNE	2	bc	60	85	8	2	6	-	4-6	4-6	2500
11	St. Abbs Head...	1009.4	-2	WNW	3	bc	59	85	8	7	6	2	4-6	4-6	2500
	Leuchars ...	1009.0	-6	WNW	1	c	65	75	9	8	7	-	4-6	7-8	2500
12	Renfrew (Abbotsl.)	1009.7	-8	W	2	bc	69	55	8	2	6	4	2-3	4-6	4000
	Eskdalemuir ...	1009.1	-2	WSW	3	pr	61	75	8	8	3	5	4-6	9	2500
	Point of Ayre ...	1010.9	0	NW'W	4	c	65	75	8	1	4	2	1	7-8	4000
13A	Tiree	1009.6	0	SSE	2	bc	65	65	7	1	-	5	Tr	Tr	4000
13B	Stornoway ...	1011.0	-6	SE	2	bc	61	75	9	5	4	-	2-3	4-6	4000
15	Dalwhinnie ...	1009.3	-6	S	1	c	66	55	8	4	6	1	4-6	7-8	4000
	Aberdeen ...	1009.3	-6	NW'N	3	c'	60	85	8	5	-	-	10	10	1500
	Wick	1009.6	-6	ENE	3	c	58	92	7	8	7	8	4-6	7-8	1500
16	Lerwick... ...	1012.2	-10	ESE	3	F+	58	97	2	-	-	-	10	10	<150
17	Blacksod Point...	1011.0	0	NW	3	bc	60	75	8	2	-	-	4-6	4-6	1500
18	Malin Head ...	1009.8	-2	E	1	c	58	85	8	2	6	2	4-6	7-8	5700
	Aldergrove ...	1010.0	-10	SW	3'	bc	67	55	7	2	8	-	2-3	4-6	2500
19	Birr Castle ...	1010.2	-6	WSW	1	iro	58	85	7	6	2	-	4-6	10	800
20	Valentia Obsy.†	1013.1	-2	NW'W	3	bc	61	75	8	8	-	-	2-3	2-3	2500
	Roches Point ...	1011.1	-14	N'E	3	dd	57	97	7	5	-	-	10	10	800

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

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)	1011.5	-6	SW'W	2	c	69	55	8	8	-	1	7-8	9	2500	1	*
Croydon	1012.8	+6	SW	2	c	66	75	8	2	4	-	4-6	7-8	4000	1	*
S. Farnborough	1011.8	+4	WSW	2	c	67	55	8	2	-	6	Tr	7-8	4000	1	*
Boscombe Down	1012.2	-4	WNW	2	c	65	65	7	5	7	2	7-8	9	2500	0	*
Calshot (Soton.)	1012.8	+2	SW'W	4	c	64	75	7	8	-	2	7-8	9+	2500	1	2
Lympne	1012.7	+4	WSW	4	c	64	75	7	2	6	-	2-3	7-8	4000	1	§3
Manston	1011.9	+4	SSW	1	c	64	75	6	8	-	-	10	10	4000	1	*
Shoeburyness	1011.6	+2	-	0	c	65	85	8	5	-	-	9+	9+	4000	1	*
Felixstowe	1011.2	+2	W	3	zo	65	75	7	9	7	-	7-8	9+	2500	0	2
Gorleston	1010.7	+6	-	0	bc	63	75	7	8	-	-	4-6	4-6	2500	0	2
Mildenhall	1010.9	+2	WSW	2	zo	63	85	6	-	7	-	0	9+	-	1	*
Cranwell	1010.6	0	WSW	1	zo	64	75	6	-	3	-	0	9+	-	1	*
Birmingham	1011.0	0	WSW	2	bc	68	55	8	2	-	5	2-3	4-6	2500	1	*
Upper Heyford	1012.0	+6	SSW	2	PR	60	85	7	8	7	-	9	10	1500	1	*
Ross-on-Wye	1011.4	+4	SW	3	c	64	65	8	8	-	3	2-3	9	2500	1	*
Hartland Point	1011.5	-10	W	4	c/r	58	97	8	6	2	-	4-6	9	800	1	3
Bristol	1012.8	-4	W'N	3	c	63	75	8	8	7	8	2-3	7-8	2500	0	*
Portland Bill	1013.2	-12	WSW	4	c	60	85	7	4	4	-	7-8	10	4000	1	4
Plymouth	1013.2	-6	SW'W	4	pr	60	85	8	7	7	7	4-6	9+	2500	0	2
The Lizard	1013.3	-10	SE	2	rr	55	97	7	5	-	-	10	10	1500	1	2
Scilly (St. Mary's)	1013.2	-6	WNW	4	c/r	59	97	7	8	6	3	2-3	7-8	1500	1	2
Guernsey	1015.1	-2	WSW	3	c	59	85	8	-	3	-	0	7-8	-	0	2
Pembroke	1011.4	-6	SW'S	4	cq	57	92	7	8	2	-	7-8	10	1500	1	2
Holyhead	1010.4	-4	SSW	4	c	60	85	8	5	3	9	2-3	9+	4000	0	2
Chester (Sealand)	1011.0	-2	WNW	2	c	64	65	7	8	7	6	1	7-8	2500	1	*
Manchester	1010.6	-2	W	2	bc	65	65	8	1	3	-	2-3	4-6	4000	1	*
Spurn Head	1010.1	-2	SSE	2	c	60	85	8	-	7	-	0	9	-	1	2
Catterick	1009.0	-2	W'N	2	c	65	75	8	8	3	-	4-6	7-8	2500	1	*
Tynemouth	1008.9	-4	SE	2	c	58	85	7	8	-	-	7-8	7-8	1500	1	2*
St. Abbs Head	1008.8	0	-	0	c	61	85	8	4	3	2	2-3	7-8	2500	0	2
Leuchars	1008.4	+2	ESE	3	bc	61	85	8	7	6	6	2-3	4-6	4000	0	*
Renfrew (Abbotsl.)	1008.7	-4	SW	3	bc	66	65	8	1	-	-	2-3	2-3	4000	0	*
Eskdalemuir	1008.9	-2	S'E	2	pr	57	92	8	8	-	8	7-8	9+	2500	1	*
Point of Ayre	1010.1	-4	W'N	4	c	64	65	8	-	-	9	0	7-8	-	0	2
Tiree	1008.5	-2	SSW	2	c	60	85	7	8	3	-	4-6	7-8	2500	0	1
Stornoway	1008.9	-4	ESE	2	b	59	85	8	5	-	-	1	1	4000	0	1
Dalwhinnie	*	-6	WNW	3	c	63	55	8	5	-	-	10	10	4000	0	*
Aberdeen	1008.4	-2	E	1	c	59	92	6	5	-	6	4-6	9	800	1	2
Wick	1008.5	+2	ESE	2	F+	56	97	1	-	-	-	10	10	<150	1	1
Lerwick	1010.0	-2	E	2	rr	57	97	6	6	2	-	4-6	10	450	1	*
Blacksod Point	1010.3	-8	W	2	bc	60	75	8	3	-	-	4-6	4-6	1500	0	2
Malin Head	1009.2	-4	S'W	4	c/r	58	85	7	6	9	-	7-8	9	1500	0	1
Aldergrove	1009.5	+2	SW'W	2	c	59	75	8	5	-	-	10	10	4000	1	*
Birr Castle	1010.4	-2	WSW	1	c/r	60	85	7	9	7	-	4-6	9	800	1	*
Valentia Obsy.†	1012.5	-2	NW'W	3	c	59	85	9	8	2	6	4-6	7-8	1500	1	1
Roches Point	1010.6	0	N'W	3	c	63	75	9	7	•	•	7-8	7-8	2500	1	2

PAST 24 HOURS.

Stations	Weather 7h.–13h. 6th (37)	13h.–18h. 6th (38)	18h. 6th, to 1h. 7th (39)	1h.–7h. 7th (40)
London (Kew)	cmoc	cy	cybcb	bbccrocm
Croydon	omoc	mcbcc	cbcbw	bcwcmodd
S. Farnborough	croc	cbccy	cbcbcc	cdodom
Boscombe Down	cmobczo	bcc	crorocbccm	cmororoc
Calshot (Soton.)	bcb	bbcc	cbcc	iroido
Lympne	omcmo	cbcc	bccb	bbcfgm
Manston	cmo	cmo	cbcmow	bcmow
Shoeburyness	cmo	bcmopoc	cpoc	c,bwbc
Felixstowe	bcmo.omo	bccpro	cbbc	bcbmow
Gorleston	bcffec	cbc	bcb	bbc
Mildenhall	omcmobcc	cpromoc	cbbcmo	bmowcm
Cranwell	cmobc	cproczo	czobmo	bbccmow
Birmingham	oc	cbc	bc	bcoro
Upper Heyford	cmobc	ccPR	cPR bcjf	bcofdodo
Ross-on-Wye	bcc	cbcc	cdoc	cbc
Hartland Point	bcc	cr	cirbc	bcc
Bristol	bmobc	bcc	c	cprddbc
Portland Bill	bcc	c	cpr	cpr
Plymouth	bc	bccpro	proiroDD	c,wbbc
The Lizard	bc	bccrr	rrcbc	bcw
Scilly (St. Mary's)	bc	odrdrc	cbcw	bccw
Guernsey	bc	bcc	cor	orrid
Pembroke	bcc	rocq	cido	cbc
Holyhead	bcc,bc	bcc	cdodomc	cmoc
Chester (Sealand)	bccbcmo	bc	cbccw	cbcw
Manchester	bcmoc	bc	bcc	cdoromo
Spurn Head	cird	c	czobw	bcc
Catterick	c	c	b	bwbcw
Tynemouth	cbc	bcc	cbc	bc
St. Abbs Head	cbc	bcc	cbc	bc
Leuchars	ciroc	cbc	bcbmw	bmbw
Renfrew (Abbotsl.)	bcbcy	bcyb	bbcfgwcmo	cmow id.c
Eskdalemuir	bccpro	cprpR	cbc	bcco
Point of Ayre	bcc	cbcc	ccw	c
Tiree	bcb	bbc	crrc	cbc
Stornoway	bc	bcb	bbcc	cpr
Dalwhinnie	cbc	c	•	c
Aberdeen	ciroc	cczo	cfefe	fefe
Wick	cdoc	bcF	Ff	Ffe
Lerwick	cirf	cifrr	crrmo	ifirF
Blacksod Point	bc	bc	bc	iro
Malin Head	cbcc	cbcc	c	bc
Aldergrove	cmobcy	bcyc	rriRmo	cmobc
Birr Castle	ciro	ciro	c	c
Valentia Obsy.†	dcbcb	bbc	c	idoo
Roches Point	irrrdd	ddprc	cbc	cw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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.*

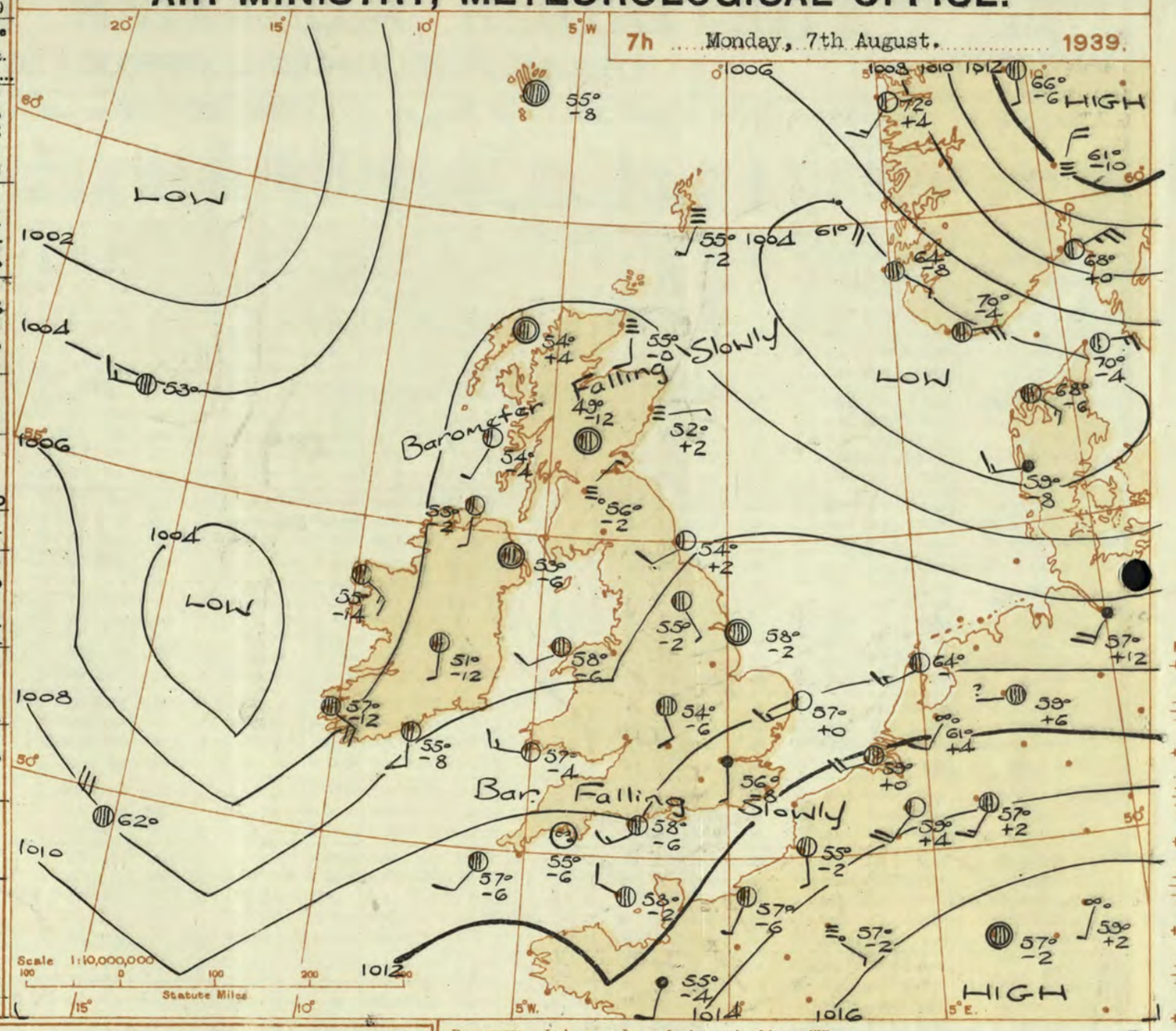
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 6th August 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 5th to 9h. 6th	Temperature. (°F) Max. 9h.—17h. 6th	Rainfall. (mm.) Night. 17h. 5th to 9h. 6th	Rainfall. (mm.) Day. 9h.—17h. 6th	Sunshine. (Hrs.) Sunrise to 17h. 6th	Sunshine. (Hrs.) Sunrise to Sunset. 5th
1	Tunbridge W.	cbcc	bcc	48	68	Trace	-	3·9	3·7
	Bournemouth	b	bbcb	53	71	-	-	9·5	4·3
	Ventnor ...	cbz	bbc	55	66	-	-	10·2	7·8
	Southsea ...	b	b	54	70	-	-	9·1	6·2
	Bognor Regis	bc	bcb	53	68	-	-	7·0	6·8
	Littlehampton	bc	bc	54	66	-	-	6·8	5·7
	Worthing ...	bc	b	54	68	Trace	-	5·7	5·3
	Brighton ...	bc	bc	54	65	-	-	4·2	4·5
	Eastbourne† ...	co	oc	53	65	-	-	2·7	3·5
	Hastings† ...	cbcc	op.c	51	67	Trace	Trace	3·0	5·0
	Folkestone ...	bcc	cocma	54	67	-	-	6·6	6·9
	Dover ...	bc	bcdr	53	69	-	0·3	6·3	9·3
	Deal	cbcc	cr.cd	52	68	-	Trace	5·2	9·5
	Ramsgate ...	bc	bcoc	55	67	-	Trace	6·2	9·0
	Margate ...	bc	bcc	55	67	-	-	7·0	8·2
2	Southend ...	c	c	51	69	Trace	-	2·7	2·4
	Clacton-on-Sea	bccbc	bcp.c	50	68	-	Trace	3·7	1·7
	Dovercourt ...	bcm	bcc	51	69	-	-	4·4	2·0
	Lowestoft ...	cbc	cbc	48	70	Trace	-	4·7	2·1
	Skegness ...	cbcb	cor.o	50	66	-	Trace	3·5	1·7
	Mablethorpe...	bcco	obcov	53	64	-	Trace	4·7	1·4
	Cleethorpes ...	bccr	cbcc	53	64	3	1	4·0	0·0
3	Leamington S.	cbc	bc	55	71	2	-	2·9	0·5
4	Cheltenham†	bcc	bccq	54	71	8	-	6·4	2·5
5	Bath	bcb	bbc	52	69	-	-	10·2	2·4
	Weymouth ...	b	bbc	54	66	-	-	11·0	4·0
	Jersey ...	obc	bcc	57	64	-	-	2·4	5·7
	Torquay ...	bbc	bcc	56	68	-	-	8·0	8·2
	Falmouth ...	b	bccro	53	67	-	0·2	7·6	10·2
	Penzance ...	bbc	bccpr	53	67	-	1	6·0	11·6
	St. Ives ...	b	pr	56	66	-	2	7·1	9·6
	Bude... ...			49	66	-	1	5·1	7·1
	Ilfracombe ...	obcz	bco	57	63	-	-	4·7	5·2
6	Aberystwyth	cbc	bcc	52	65	-	-	6·9	5·7
7	Llandudno ...	cbc	bc	56	65	-	-	7·3	3·0
	Colwyn Bay...	cbcc	cbc	56	68	-	-	5·2	1·2
	Rhyl	cbc	bcbbc	57	65	Trace	-	5·8	2·7
8	Wallasey ...	bcb	b	55	65	0·3	-	6·7	2·1
	Southport ...	bcb	b	56	67	0·3	-	10·6	1·8
	Blackpool ...	cbcc	cbcb	56	66	2	-	10·2	3·2
	Morecambe ...	bcb	b	57	65	1	-	10·1	2·1
9	Ilkley... ...	bcd.	cbc	56	70	3	Trace	3·7	1·5
	Harrogate ...	cbc	bcb	54	69	3	-	5·1	0·2
10	Berwick-on-T.	oc	bc	54	63	0·5	-	5·0	0·3
11	Dunbar ...	crrm.	bc	52	62	6	1	4·1	3·5
12	Troon... ...	bbcb	bbcb	49	62	-	-	11·0	7·4
	Douglas ...	bw	b	53	66	-	-	8·8	11·5

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 7th August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland	Wind light, variable or southerly. Some local rain or showers, but bright periods; average temperature.
15 N. E. Scotland 16 Orkney and Shetland	Wind light, variable. Cloudy; occasional drizzle or rain. Fog over the sea and coasts; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1 – 14.

RAW

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

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

GENERAL INFERENCE.

Anticyclones lie over the Azores and the Northern Baltic and an irregular trough of low pressure covers the British Isles. There will be some local rain or showers, but also bright periods in all districts.

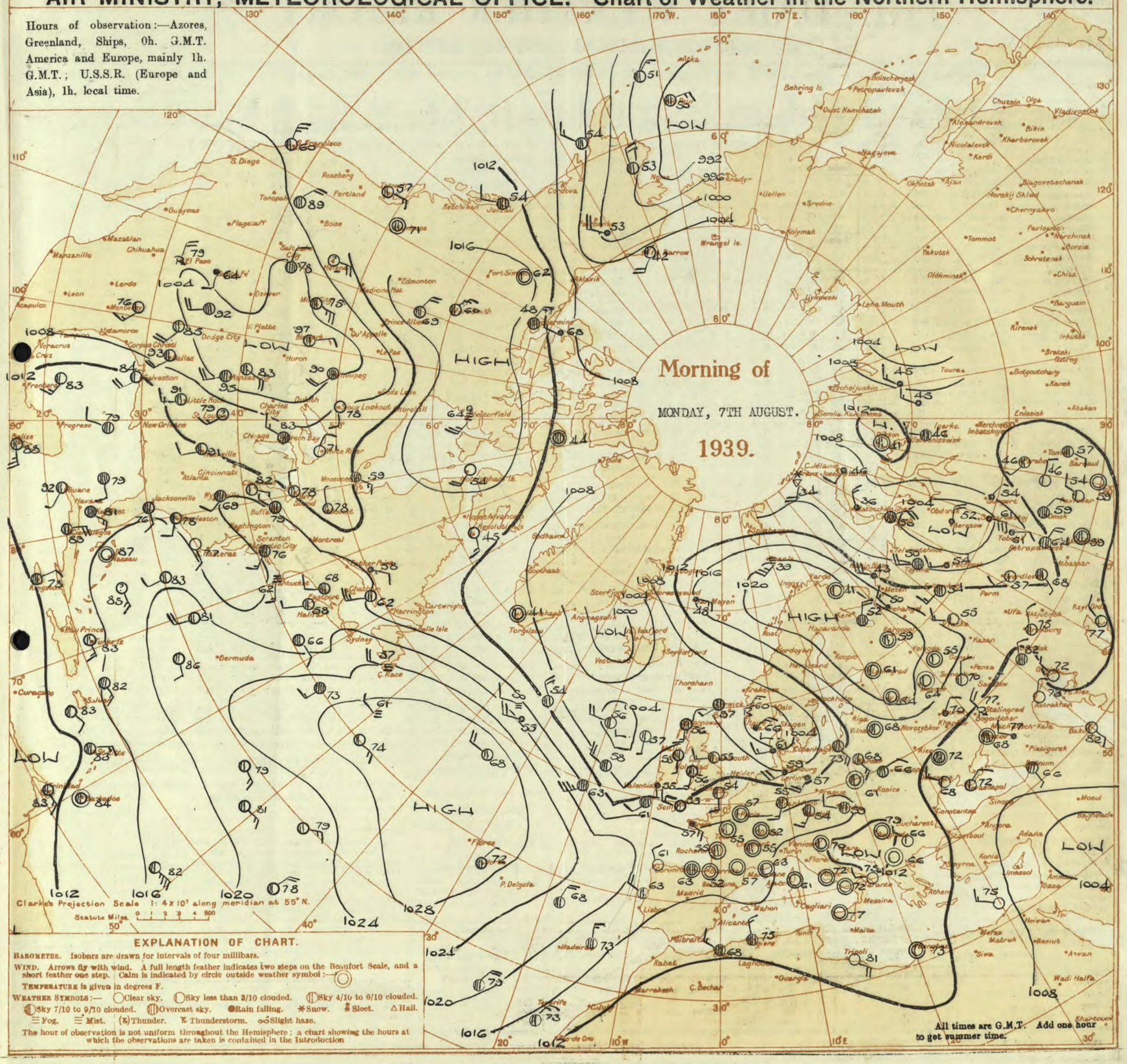
FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 0930 G.M.T.

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

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, 7th August, 1939.

No. 28382.

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

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	1012·4	−4	S	2	bc	54	97	7	–	–	3	0	2-3	–
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1011·9	−14	SSW	3	z.	53	97	6	–	3	–	0	9	–
	Calshot (Sthmtn.)	8	1012·6	−8	WSW	3	c	55	92	7	5	4	–	4-6	9	1500
	Lympne	346	1013·6	+2	WSW	2	bc	53	97	6	–	–	3	0	2-3	–
	Manston	154	1012·4	−2	W	1	bc	54	97	6	5	–	–	2-3	2-3	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1011·5	−4	W'N	4	bc	60	85	7	5	–	–	4-6	4-6	4000
	Gorleston	5	1010·8	+2	SW	1	b	57	85	7	–	5	–	0	Tr	–
	Mildenhall	19	1010·7	−4	SW	3	z.	55	92	6	–	3	–	0	2-3	–
	Cranwell	240	1010·8	−2	SW	1	z.	54	97	6	–	–	–	0	0	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1012·0	−10	SW'S	1	b/f	49	92	6	–	3	1	0	1	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010·1	−10	W	4	bc	58	92	8	2	6	–	4-6	4-6	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1012·5	−12	SW	3	c	58	85	8	5	–	–	10	10	4000
	Plymouth	82	1011·9	−8	W	1	c	55	97	7	5	–	–	7-8	7-8	1500
	The Lizard	240	1012·4	−6	SW'W	4	bc	55	97	8	4	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	163	1012·1	−10	W'N	3	bc	55	97	8	8	6	3	2-3	4-6	2500
	Guernsey	175	1013·3	−6	S	5	rr	56	97	8	5	–	–	10	10	1500
6	Pembroke	142	1009·0	−4	WNW	4	c	58	97	7	8	–	–	9+	9+	1500
7	Holyhead	26	1008·8	−10	S	3	o/d	56	97	6	5	–	–	10	10	220
	Chester (Sealand)	16	1010·1	−10	SSE	1	c	55	85	7	5	3	–	Tr	7-8	4000
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1010·1	0	WNW	2	b	58	85	6	–	–	–	0	0	–
	Catterick	175	1009·4	−2	–	0	b	49	92	8	–	–	–	0	0	–
	Tynemouth	108	1008·6	−4	W	3	bc	55	85	7	5	–	–	2-3	2-3	1500
11	St. Abbs Head	280	1008·0	0	S	1	b	57	75	8	1	–	–	1	1	4000
	Leuchars	36	1007·8	−2	–	0	m	51	97	4	–	–	–	0	0	–
12	Renfrew (Abbots I.)	19	1008·8	−4	ENE	1	z.	51	97	6	5	–	–	9	9	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1008·9	−4	SW'W	1	bc	54	92	8	5	–	–	4-6	4-6	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1008·2	−6	S	3	c	56	92	7	5	7	–	7-8	7-8	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1006·8	−6	S	1	F	54	97	1	–	–	–	10	10	<150
16	Lerwick	156	1006·6	−20	WSW	1	c	57	97	6	8	2	–	7-8	10	800
17	Blacksod Point	18	1008·0	−14	–	0	c	56	85	8	5	–	–	10	10	1500
18	Malin Head	84	1008·9	−8	S	1	c	53	85	7	7	5	–	4-6	7-8	4000
	Aldergrove	268	1008·7	−2	WNW	1	c/r	54	97	6	6	–	–	10	10	800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1009·9	−10	S	2	ir.	55	97	7	5	–	–	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1010·9	−6	SSE	2	c/r	57	92	6	5	–	–	10	10	1500	1	*
Croydon	1011·5	−8	S	1	dd	56	97	6	5	–	–	9+	10	2500	1	*
S. Farnborough	1010·6	−6	S	3	d.d.	56	97	5	6	2	–	9+	10	800	1	*
Boscombe Down	1010·1	−2	SW	3	c	56	97	7	5	–	–	9+	9+	4000	1	*
Calshot (Sthmtn.)	1010·7	−6	SSW	3	id.	58	92	7	6	2	–	9+	10	800	1	2
Lympne	1013·0	−2	SSW	1	bc	56	92	6	1	5	–	2-3	4-6	1500	1	§2
Manston	1011·9	−2	SW'S	2	c	56	92	6	2	5	–	Tr	7-8	4000	1	*
Shoeburyness	1011·5	−2	SSW	3	c	60	85	7	–	9	–	0	7-8	–	1	*
Felixstowe	1011·1	−2	W	3	z.	57	92	6	–	4	–	0	2-3	–	0	1
Gorleston	1009·8	0	WSW	3	b	57	85	6	–	3	–	0	1	–	0	2
Mildenhall	1010·2	−2	E'S	3	z.	55	92	6	5	–	–	10	10	220	1	*
Cranwell	1009·7	−8	SW	1	z.	58	85	5	–	3	–	0	4-6	–	1	*
Birmingham	1009·2	−6	SSE	2	c/r	54	97	6	5	–	–	10	10	450	1	*
Upper Heyford	1010·3	−10	SE	1	o/d	54	97	5	5	–	–	10	10	450	1	*
Ross-on-Wye	1009·0	−6	SW'S	2	c	58	85	7	8	–	–	7-8	7-8	1500	1	*
Hartland Point	1008·3	−6	W	4	c	57	85	8	8	–	–	7-8	7-8	1500	0	3
Bristol	1009·7	−6	SW	2	bc	55	92	8	8	6	–	2-3	2-3	2500	1	*
Portland Bill	1010·0	−6	WSW	3	c	58	92	7	5	7	–	7-8	10	2500	1	3
Plymouth	1010·2	−6	–	0	z.	55	97	6	5	4	–	2-3	2-3	5700	1	1
The Lizard	1010·4	−6	SW	2	bc	57	97	8	8	7	–	4-6	4-6	2500	1	1
Scilly (St. Mary's)	1010·1	−6	SW	2	c	57	92	8	2	3	–	2-3	9	2500	1	2
Guernsey	1011·6	−2	WNW	2	c/d	53	97	7	5	2	–	7-8	10	800	2	3
Pembroke	1008·5	−4	W'N	3	bc	57	97	8	5	6	1	2-3	4-6	2500	1	2
Holyhead	1006·7	−6	WSW	2	c/p	58	92	8	5	–	–	9+	9+	450	1	1
Chester (Sealand)	1007·6	−12	SE	2	c	57	85	6	8	3	–	4-6	7-8	4000	0	*
Manchester	1008·2	−4	SE	1	s/d	56	92	5	5	7	–	7-8	10	1500	1	*
Spurn Head	1009·1	−2	–	0	c	58	85	6	5	–	–	9+	9+	2500	1	0
Catterick	1008·6	−2	SE'S	1	c	55	85	8	5	3	–	4-6	7-8	2500	1	*
Tynemouth	1007·9	+2	WSW	2	bc	54	85	6	5	4	–	2-3	2-3	1500	1	1
St. Abbs Head	1006·9	+2	WSW	1	bc	58	75	8	7	4	–	1	2-3	2500	0	1
Leuchars	1006·5	−2	SW	1	b	54	92	7	5	–	–	Tr	Tr	4000	0	*
Renfrew (Abbots I.)	1007·5	−2	NE	1	m	56	85	4	5	–	–	10	10	1500	0	*
Eskdalemuir	1007·1	−4	SW	2	o	53	92	6	5	–	–	10	10	800	1	*
Point of Ayre	1007·2	−6	SSW	2	c	58	92	8	8	1	–	7-8	9+	1500	0	1
Tiree	1006·5	−4	SSW	1	bc	54	97	7	5	3	–	2-3	2-3	2500	1	1
Stornoway	1007·8	+4	–	0	c/pr	54	92	8	5	7	–	7-8	9+	2500	1	0
Dalwhinnie	1007·6	−12	–	0	c	49	92	8	5	–	–	10	10	4000	0	*
Aberdeen	1006·6	+2	E'N	1	f	52	85	2	–	–	–	10	10	<150	1	1
Wick	1006·1	0	S	2	F	55	97	1	–	–	–	10	10	<150	1	1
Lerwick	1005·6	−2	SSW	1	F	55	97	1	–	–	–	10	10	<150	1	*
Blacksod Point	1005·4	−14	SE	3	c	55	85	8	5	–	–	10	10	800	0	2
Malin Head	1007·1	−2	S	1	bc	55	85	8	2	7	4	2-3	4-6	5700	0	1
Aldergrove	1007·0	−6	–	0	c	53	92	7	5	–	–	7-8	7-8	5700	1	*
Birr Castle	1007·1	−12	S	1	c	51	97	8	5	–	–	9	9	2500	1	*
Valentia Obsy. †	1005·6	−12	SE'S	4	o/d	57	92	6	5	–	–	10	10	800	1	2
Roches Point	1007·6	−8	S	2	c	55	97	8	6	2	–	7-8	10	1500	1	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 6th Hrs. (36)
London (Kew)	71	55	46	–	0·5	5·0
Croydon	69	53	50	–	–	2·1
S. Farnborough	72	53	47	–	Tr	7·8
Boscombe Down	69	53	51	–	0·5	7·9
Calshot (Sthmtn.)	70	57	55	–	0·1	8·6
Lympne	67	53	49	–	–	6·2
Manston	67	49	43	–	–	5·1
Shoeburyness	68	55	44	Tr	Tr	1·7
Felixstowe	72	55	51	Tr	–	3·4
Gorleston	68	54	52	–	–	5·8
Mildenhall	67	49	43	0·2	Tr	2·3
Cranwell	68	48	43	Tr	–	2·6
Birmingham	70	53	46	–	0·2	7·6
Upper Heyford	69	48	40	3	3	*
Ross-on-Wye	70	54	45	–	–	9·2
Hartland Point	61	56	55	1	Tr	5·7
Bristol	67	52	45	–	1	11·1
Portland Bill	63	56	*	–	2	*
Plymouth	62	52	48	Tr	2	8·3
The Lizard	65	53	*	2	2	7·0
Scilly (St. Mary's)	64	54	*	3	–	4·2
Guernsey	62	53	53	–	10	5·0
Pembroke	62	56	*	0·2	0·1	4·1
Holyhead	63	55	53	–	0·1	8·6
Chester (Sealand)	66	54	51	–	–	7·5
Manchester	67	46	41	–	Tr	9·5
Spurn Head	64	55	*	1	Tr	3·8
Catterick	68	44	39	–	–	4·9
Tynemouth	61	51	48	–	–	3·4
St. Abbs Head	61	52	*	–	–	*
Leuchars	66	43	39	0·3	–	3·1
Renfrew (Abbots I.)	70	49	43	–	Tr	12·9
Eskdalemuir	67	45	39	7	0·4	5·0
Point of Ayre	69	53	*	–	–	11·4
Tiree	65	48	39	–	2	10·0
Stornoway	62	53	*	–	0·5	14·2
Dalwhinnie	66	40	30	–	–	4·2
Aberdeen	63	51	44	0·2	–	0·0
Wick	62	52	*	0·3	Tr	*
Lerwick	59	54	*	4	3	0·0
Blacksod Point	63	46	*	0·2	0·1	*
Malin Head	62	47	*	Tr	–	6·9
Aldergrove	69	51	47	–	5	7·3
Birr Castle	60	47	37	1	–	1·1
Valentia Obsy. †	62	55	51	0·5	2	8·1
Roches Point	63	51	*	8	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	cm.c	cy	cybccr.c	71	55	46	–	0·5	5·0	*	*	8
Croydon	217	om.c	mcbcc	bcvmdd	69	53	50	–	–	2·1	*	*	8
Greenwich (Royal Observatory)	149	c	c	cbcr.c	72	52	43	–	0·3	4·5	62	88	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3.7	*	*	*
Westminster (St. James' Park)	27	*	*	*	69	55	47	0·3		3.7	89	85	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	70	54	49	–	0.5	4.0	79	88	*
Camden Square	110	c	bc	*	71	55	50	–	0·5	*	*	91	*
Kensington	80	o	bc	*	69	54	48	–	0·2	3·5	At 18h 69	85	*
Hampstead Observatory	450	bc	bcor	c	67	52	48	–	0·6	*	*	91	*

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

South Kensington. Max.	Time.	Min.	Time.
<0·3	Whole period.		

Kew Observatory. Max.	Time.	Min.	Time.
<0·1	8-9h 6th	<0·1	Rest of period.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 6th August. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 7th August. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.
Paris	1015·0	WNW	3	c/pr	61	1014·3	SE	1	m/f	57
Brussels	1012·3	WSW	3	bc	64	1013·6	SW	4	b	59
Berlin	1007·7	W	3	ir.	63					
Zürich	1016·3	S	2	c	63	1017·4	SE	1	bc	54
Rome	1013·2	SW	2	bc	75					

Past 24 Hours.

Stations	Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	72	52	2	–
Brussels	68	54	Tr	–
Berlin	82		6	
Zürich	68	50	1	*
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 ,,	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	Precipitous.
4	Rough.	9	Confused.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 3 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 8th August, 1939.

No. 28383.

D-h

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

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)...	1009.0	-12	S	3	c	62	85	8	5	1	-	9	10	1500
	Croydon	1009.4	-14	SE	2	id	59	92	6	5	-	-	7-8	10	800
	S. Farnborough	1008.4	-16	SSE	2	c	62	85	8	8	3	-	7-8	9+	4000
	Boscombe Down	1008.1	-14	SW'W	2	c	65	55	9	2	-	-	7-8	7-8	4000
	Calshot (Soton.)	1009.6	-6	SSW	4	c	65	75	8	2	7	9	2-3	7-8	2500
	Lympne ...	1011.2	-6	SW'S	3	ir	60	85	7	5	7	-	9	10	1500
	Manston ...	1010.1	-6	SW'S	4	c	64	65	8	8	7	-	2-3	9+	2500
2	Shoeburyness ...	1010.2	-8	S'W	3	id	61	85	8	5	2	-	4-6	10	2500
	Felixstowe ...	1006.9	-6	WSW	5	ir	64	75	8	5	7	-	4-6	10	1500
	Gorleston ...	1009.2	-4	S'W	4	c	68	56	7	7	3	-	4-6	7-8	2500
	Mildenhall ...	1008.4	-12	SW'S	4	c	63	75	7	8	1	-	9+	9+	2500
	Cranwell ...	1007.2	-14	SSW	2	c	67	65	8	7	3	-	7-8	7-8	2500
3	Birmingham ...	1007.4	-6	SSW	3	c	64	55	8	8	6	-	4-6	7-8	2500
	Upper Heyford	1008.0	-10	SSW	2	c	66	55	9	8	4	-	7-8	7-8	2500
4	Ross-on-Wye ...	1007.7	-4	SW	2	c	63	75	8	8	-	-	10	10	1500
5	Hartland Point	1008.0	-6	WSW	3	c	60	85	8	2	4	-	4-6	7-8	1500
	Bristol	1008.3	-8	WSW	2	c	63	65	8	8	-	-	7-8	7-8	2500
	Portland Bill ...	1009.0	-8	WSW	3	bc	60	92	8	5	-	-	4-6	4-6	4000
	Plymouth ...	1008.9	-10	SSW	2	c	61	85	9	6	7	-	4-6	7-8	2500
	The Lizard ...	1008.4	-8	SE'S	3	c/pr	59	97	8	8	1	-	7-8	10	1500
	Scilly (St.Mary's)	1007.0	-18	S	4	c/d	59	97	7	5	2	-	7-8	10	1500
	Guernsey ...	1010.2	-6	SSW	3	c	61	85	8	2	7	2	4-6	7-8	1500
6	Pembroke ...	1007.6	-4	SW	2	c	61	85	8	5	7	-	4-6	9+	2500
7	Holyhead ...	1006.6	+2	SW	3	c	61	75	8	2	3	-	4-6	7-8	1500
	Chester (Sealand)	1006.5	-2	SW	2	c	66	65	8	8	-	-	9+	9+	2500
8	Manchester ...	1006.5	-6	SSW	2	c	65	55	8	8	3	-	4-6	9+	4000
10	Spurn Head ...	1007.1	-6	SSW	2	c	70	65	7	8	8	-	4-6	9	2500
	Catterick ...	1005.6	-14	SSE	2	0	66	65	6	7	-	-	7-8	7-8	1500
	Tynemouth ...	1006.1	-6	ESE	3	c	61	85	7	8	-	1	4-6	7-8	1500
11	St. Abbs Head...	1006.7	0	E	2	bc	62	75	8	2	4	2	4-6	4-6	2500
	Leuchars ...	1005.1	-8	SSW	2	c	70	46	7	2	9	9	2-3	7-8	2500
12	Renfrew (Abbotsl.)	1006.4	-4	WNW	2	ir	63	75	7	8	7	-	7-8	9+	2500
	Eskdalemuir ...	1005.8	-2	WSW	2	c	57	85	7	5	1	-	9	10	800
	Point of Ayre ...	1006.3	0	NNW	2	dd	60	97	7	8	-	-	9+	9+	1500
13A	Tiree	1006.1	0	SW	2	bc	59	75	8	8	3	-	4-6	4-6	2500
13B	Stornoway ...	1006.9	0	SSE	2	c	60	85	9	8	7	-	9	9+	2500
15	Dalwhinnie ...	1006.0	0	SW	3	c	63	65	8	4	2	-	4-6	9+	4000
	Aberdeen ...	1005.9	-2	E	1	m	56	97	4	5	-	-	10	10	<150
	Wick	1005.9	+2	SE	2	c	55	97	7	5	2	-	7-8	10	1500
16	Lerwick... ...	1005.2	-4	W'S	2	c	59	85	8	5	7	-	4-6	7-8	1500
17	Blacksod Point...	1004.6	-2	SE	3	rr	56	92	6	6	-	-	10	10	<150
18	Malin Head ...	1006.2	-2	E	2	c	59	75	8	2	9	-	2-3	7-8	5700
	Aldergrove ...	1006.1	-6	SW	1	bc	64	55	9	8	-	-	4-6	4-6	2500
19	Birr Castle ...	1005.9	-6	SSW	1	c	61	75	8	5	2	-	7-8	10	2500
20	Valentia Obsy.†	1006.1	+4	WNW	2	c	61	97	8	8	3	-	9	9+	1500
	Roches Point ...	1005.9	-12	S'E	3	id	58	97	6	5	-	-	10	10	450

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	°Temp. F. (20)	%Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount Low 0-10 (26)	Cloud. Amount Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1007.0	-8	SW	3	c	63	65	8	8	-	-	7-8	7-8	2500	1	*
	Croydon	1007.4	-18	S	2	bc	64	75	8	2	6	-	1	2-3	4000	1	*
	S. Farnborough	1007.2	-6	SSW	3	b	63	65	8	2	4	-	1	1	4000	1	*
	Boscombe Down	1007.4	0	W'S	3	c/pr	61	65	8	8	3	-	4-6	7-8	2500	1	*
	Calshot (Soton.)	1007.8	-10	SW'S	4	b	62	75	8	7	5	-	1	1	2500	1	2
	Lympne ...	1009.6	-6	SSW	3	c/d	58	92	7	5	-	-	9+	9+	450	1	§ 3
	Manston ...	1008.2	-10	S'W	4	ir	60	85	7	5	7	-	4-6	9+	2500	1	*
2	Shoeburyness ...	1008.2	-10	SSW	3	ir	61	65	8	5	7	-	4-6	9+	2500	1	*
	Felixstowe ...	1007.9	-12	S'W	4	ir	62	85	8	5	7	-	7-8	10	1500	0	2
	Gorleston ...	1007.7	-4	SW'S	3	c	64	75	7	5	-	-	9	9	2500	0	2
	Mildenhall ...	1006.7	-2	S	3	c	63	75	7	8	-	-	9	9	5700	1	*
	Cranwell ...	1006.1	-4	W	2	c	63	75	8	8	3	-	9	9+	4000	0	*
3	Birmingham ...	1006.7	-4	WSW	2	c	62	65	8	8	6	-	2-3	9	2500	1	*
	Upper Heyford	1007.3	-14	W'N	2	c	62	85	9	5	6	-	7-8	9	4000	1	*
4	Ross-on-Wye ...	1006.8	-6	W	2	c	63	65	8	8	6	-	7-8	7-8	7300	1	*
5	Hartland Point	1006.7	-2	W	2	c	59	85	8	5	2	-	7-8	9+	1500	0	2
	Bristol	1007.4	-2	W	3	bc	62	75	8	8	3	-	4-6	4-6	2500	1	*
	Portland Bill ...	1007.9	-10	WSW	3	c	61	92	8	5	-	-	4-6	10	4000	1	3
	Plymouth ...	1008.1	-4	S'W	1	DD	57	97	5	-	2	-	10	10	450	1	1
	The Lizard ...	1007.1	-12	SE'S	2	c/pr	58	97	7	5	2	-	9	10	1500	1	2
	Scilly (St.Mary's)	1006.3	-4	W	2	c	60	97	8	8	7	-	4-6	9+	1500	1	2
	Guernsey ...	1008.6	-10	SSW	2	c	59	85	8	8	3	-	7-8	9+	2500	2	2
6	Pembroke ...	1006.9	-2	SW	1	c	60	92	8	5	2	-	4-6	9+	2500	1	2
7	Holyhead ...	1006.3	-2	SSW	3	bc	60	75	9	2	3	-	2-3	4-6	2500	1	2
	Chester (Sealand)	1006.5	-6	NW	3	c	61	75	9	8	3	2	4-6	7-8	2500	0	*
8	Manchester ...	1006.2	-2	WN	2	c/pr	60	65	8	8	3	-	4-6	7-8	4000	1	*
10	Spurn Head ...	1005.5	-12	SSE	2	c/p	64	85	8	9	3	-	4-6	7-8	800	0	1
	Catterick ...	1004.7	-2	-	0	c	62	85	7	8	3	-	9	9+	2500	1	*
	Tynemouth ...	1004.9	-4	SE	1	c	60	85	6	8	-	-	9+	9+	1500	1	1
11	St. Abbs Head...	1004.7	-10	SSE	1	ir	60	85	8	8	6	-	4-6	9+	2500	1	1
	Leuchars ...	1004.1	0	SE	2	c	63	75	7	4	7	9	4-6	9	4000	0	*
12	Renfrew (Abbotsl.)	1005.3	-2	W	1	pr	61	85	6	8	9	-	7-8	9	2500	1	*
	Eskdalemuir ...	1004.7	-6	S	2	c/r	58	92	8	5	-	-	9+	9+	1500	1	*
	Point of Ayre ...	1005.7	-4	WNW	3	bc	62	85	8	2	3	-	1	4-6	2500	1	2
13A	Tiree	1005.8	0	NNW	1	bc	59	75	8	7	3	-	1	2-3	4000	0	1
13B	Stornoway ...	1007.8	0	SE	1	c	58	85	9	8	7	-	7-8	9+	2500	1	0
15	Dalwhinnie ...	1005.7	-4	NW	2	c	57	85	8	4	6	-	4-6	7-8	4000	0	*
	Aberdeen ...	1005.0	-4	E'S	1	f	59	97	2	-	-	-	10	10	<150	1	1
	Wick	1005.4	-6	SE	2	c	59	92	6	5	7	-	7-8	9	1500	1	1
16	Lerwick... ...	1003.4	-2	NNW	3	c/pr	58	85	8	8	7	-	7-8	9+	1500	1	*
17	Blacksod Point...	1004.8	0	W	3	c	59	92	8	8	-	-	10	10	220	1	2
18	Malin Head ...	1005.7	-4	E	3	c	57	75	8	4	8	-	4-6	7-8	5700	0	2
	Aldergrove ...	1005.1	-2	-	0	bc	64	55	9	8	-	-	4-6	4-6	2500	1	*
19	Birr Castle ...	1005.9	-4	SSW	1	id	59	92	8	5	-	-	10	10	2500	1	*
20	Valentia Obsy.†	1007.4	+6	NW'N	3	c/d	59	97	8	5	-	-	10	10	800	1	3
	Roches Point ...	1005.5	-4	SW	2	dr	60	97	6	5	-	-	10	10	450	1	1

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. ...7th... (37)	Weather. 13h.—18h. ...7th... (38)	Weather. 18h.—1h. 7th to 8th. (39)	Weather. 1h.—7h. ...8th... (40)
1	London (Kew)...	crm.idc	cprcbc	bcbw	bcwm.
	Croydon	ddir	id.c	bcbbcw	rac
	S. Farnborough	d.d.rac	cbcb	bbcc	ctrbcc
	Boscombe Down	circ.bc	bccprc	ccirc	bm
	Calshot (Soton.)	rrbc	bcb	bbcc	ccr.c
	Lympne ...	bcm.cr	crr.d.	cfd.mcb	bcwfm
	Manston ...	c	cir	irw	bcw
2	Shoeburyness ...	cid.dd	id.cir	cmirbc	cbc
	Felixstowe ...	bm.cir	cd.d.cir	cir.cbc	cbcm.w
	Gorleston ...	bcc	cypr	copcc	cbc
	Mildenhall ...	gm.cid.c	c	cbbcm.	bcm.w
	Cranwell ...	bcm.bcc	cbcc	bc	bcbwbcm
3	Birmingham ...	obc	c	cbcc	cr
	Upper Heyford	om.cbc	bcyc	bcjfccpr	cpcir
4	Ross-on-Wye ...	cp.cp.c	c	cbcc	c
5	Hartland Point	cbc	bcc	circ	circ
	Bristol	bccbc	bccybc	bccrc	cw
	Portland Bill ...	cbc	bcc	c	opr
	Plymouth ...	pcc	cod.dm	opDDrcm.orcid.	
	The Lizard ...	bccpr	cprc	midc	cpr
	Scilly (St.Mary's)	cpr.d.	cid.c	cd.c	cidc
	Guernsey ...	c	c	codd	odrif
6	Pembroke ...	prc	c	cidrr	cidqm.c
7	Holyhead ...	cd.rc	bcc,bc	bcirc	mcrc
	Chester (Sealand)	bcwpr	crm.bc	bcdpfwcm	cmrm.
8	Manchester ...	cm.bcc	cyccpr	c,bm.w	bm.fcir
10	Spurn Head ...	c	c	prc	cm.bc
	Catterick ...	ccr.	cr.c	cbc	bcbw
	Tynemouth ...	bcc	cp.c	cp.0	oc
11	St. Abbs Head...	bc	cir	irc	id.c
	Leuchars ...	bbcmbcy	bccyc	cw	cwircm.
12	Renfrew (Abbotsl.)	mmid.cir	circpm.	prpcm.bc	bcwmcirc
	Eskdalemuir ...	oc	cirrRir	bccoff	offm.
	Point of Ayre ...	cdd	ddrrc	bcbcw	crcr
13A	Tiree	bc	bc	bcc	crcrc
13B	Stornoway ...	c	c	c	cw
15	Dalwhinnie ...	c	ciR		cir
	Aberdeen ...	ifom	ofefe	feff	ffor
	Wick	Ffec	cm	cmoc	c
16	Lerwick... ...	ofc	cpr	cir	cirrr
17	Blacksod Point...	rr	rr	c	prc
18	Malin Head ...	cbcc	cbcvc	ccprc	crcrc
	Aldergrove ...	bcbcy	cybcy	bcycrcr	rcm.dd
19	Birr Castle ...	c	coid	oidir	oirc
20	Valentia Obsy.†	idcidc	pridc	cidc	c
	Roches Point ...	ircid	idodr	Drbc	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, iow fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r., slight rain. rr, continuous rain.
<, less than (for cloud height). ⚡gale.
⊕ Solar halo. ☾ Lunar halo. ☆ Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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.

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.*

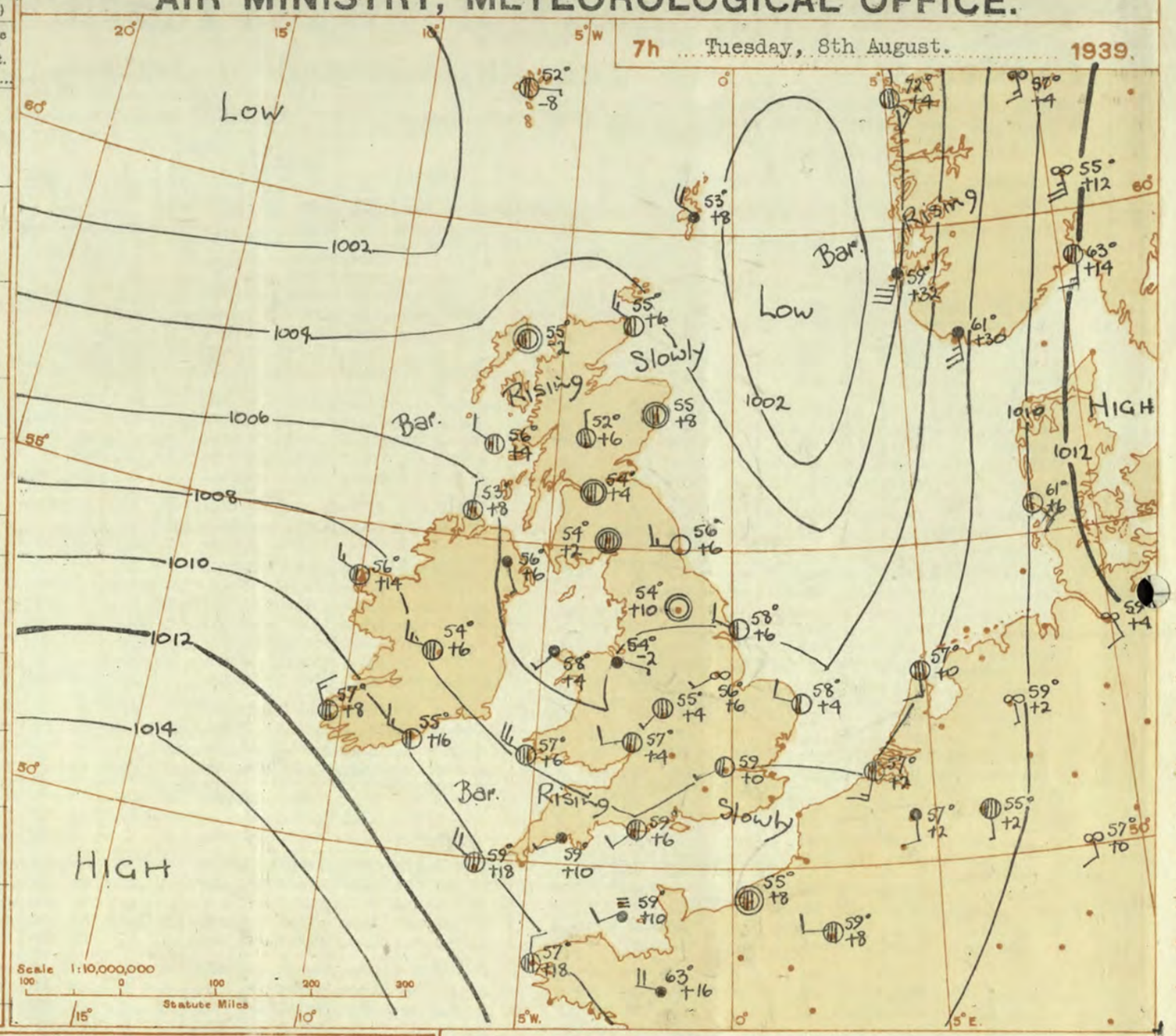
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 7th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 6th to 9h. 7th.	Temperature. (°F) Max. 9h.—17h. 7th.	Rainfall. (mm.) Night. 17h. 6th to 9h. 7th.	Rainfall. (mm.) Day. 9h.—17h. 7th.	Sunshine. (Hrs.) Sunrise to 17h. 7th.	Sunshine. (Hrs.) Sunrise to Sunset. 6th.
1	Tunbridge W.	odo	coroc	49	61	2	1	0.1	3.9
	Bournemouth	beb	bbeb	55	67	0.5	–	7.2	10.5
	Ventnor ...	rbc	cb	56	63	3	–	5.5	11.7
	Southsea ...	orc	cb	52	66	1	0.3	5.4	9.5
	Bognor Regis	rRrr	bcb	56	63	2	3	3.5	8.1
	Littlehampton	crc	cbc	56	63	6	0.6	3.8	8.7
	Worthing ...	oir	ib	56	65	4	2	2.5	6.8
	Brighton ...	ccr	rcbc	56	63	1	1	1.5	6.0
	Eastbourne† ...	iro	oirdc	57	63	0.2	2	0.1	3.4
	Hastings† ...	orr	codo	55	63	Tr.	2	0.7	3.0
	Folkestone ...	c	ccrco	53	65	–	Tr.	1.5	6.7
	Dover ...	oc	cpo	56	66	0.3	Tr.	1.5	6.3
	Deal	bc	co	53	66	–	–	2.3	5.2
	Ramsgate ...	bc	bcc	55	67	–	Tr.	2.0	6.2
	Margate ...	bc	bccd	53	66	–	Tr.	2.7	7.0
2	Southend ...	orc	corc	54	63	–	1	0.7	2.7
	Clacton-on-Sea	bcc	crc	55	65	–	Tr.	2.3	3.7
	Dovercourt ...	bcc	bcoc	53	65	–	–	2.9	4.4
	Lowestoft ...	bbcc	c	52	68	1	–	6.6	4.9
	Skegness ...	bc	cocb	50	68	–	–	5.3	3.5
	Mablethorpe...	bbc	cbc	48	69	–	–	6.2	4.7
	Cleethorpes ...	bc	bc	49	70	Tr.	–	5.3	4.0
3	Leamington S.	bc	bcco	50	69	1	–	3.9	3.9
4	Cheltenham†	bcc	bcc	55	69	–	–	6.2	6.9
5	Bath	bbcc	cbcc	56	67	Tr.	–	6.7	10.5
	Weymouth ...	b	bc	56	64	1	–	8.7	11.0
	Jersey ...	rc	bcc	57	64	1	–	1.8	3.1
	Torquay ...	wbc	bcco	53	67	1	–	8.3	8.0
	Falmouth ...	bccog	ogmr	52	62	2	Tr.	2.2	7.6
	Penzance ...	bcc	cidd	52	62	1	0.5	0.3	6.0
	St. Ives ...	c	d	56	64	0.3	0.3	1.4	7.1
	Bude... ...	bc	c	53	63	1	–	6.5	5.1
	Ilfracombe ...	pobc	bcco	55	63	0.5	–	7.2	4.7
6	Aberystwyth	prbc	bcc	56	63	0.5	–	4.8	6.9
7	Llandudno ...	cpr	rbcc	54	64	–	0.6	5.5	8.6
	Colwyn Bay...	bcd	pcbcc	55	66	–	1	3.9	6.0
	Rhyl	bccd	cprc	54	65	Tr.	3	3.2	6.5
8	Wallasey ...	bcc	cbc	57	65	–	–	3.5	7.8
	Southport ...	bcc	bcpc	52	63	0.5	Tr.	3.8	12.0
	Blackpool ...	cbc	bbcc	51	66	0.3	–	4.0	11.6
	Morecambe ...	cbc	bc	52	65	–	–	5.3	12.2
9	Ilkley... ...	obc	bc	46	70	–	–	2.7	5.9
	Harrogate ...	cbc	b	48	68	–	–	3.5	7.2
10	Berwick-on-T.	bbc	bcsc	49	66	–	Tr.	3.6	5.2
11	Dunbar ...	bc	bcpc	49	64	–	Tr.	8.1	4.1
12	Troon... ...	oco	pocb	54	61	0.3	0.3	2.4	13.2
	Douglas ...	bc	bc	54	64	0.5	--	2.4	10.5

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

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 August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind westerly light or moderate; a period of rain today; fair with bright periods tomorrow; average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Wind westerly light or moderate; some local rain but bright periods; average temperature.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	As 1 - 3.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 4 - 7.

GENERAL INFERENCE.

Depressions lie over Iceland and near Southern Norway and associated troughs of low pressure are moving from west to east across the British Isles. In all areas there will be some showers or occasional rain but there will be bright intervals.

FURTHER OUTLOOK.

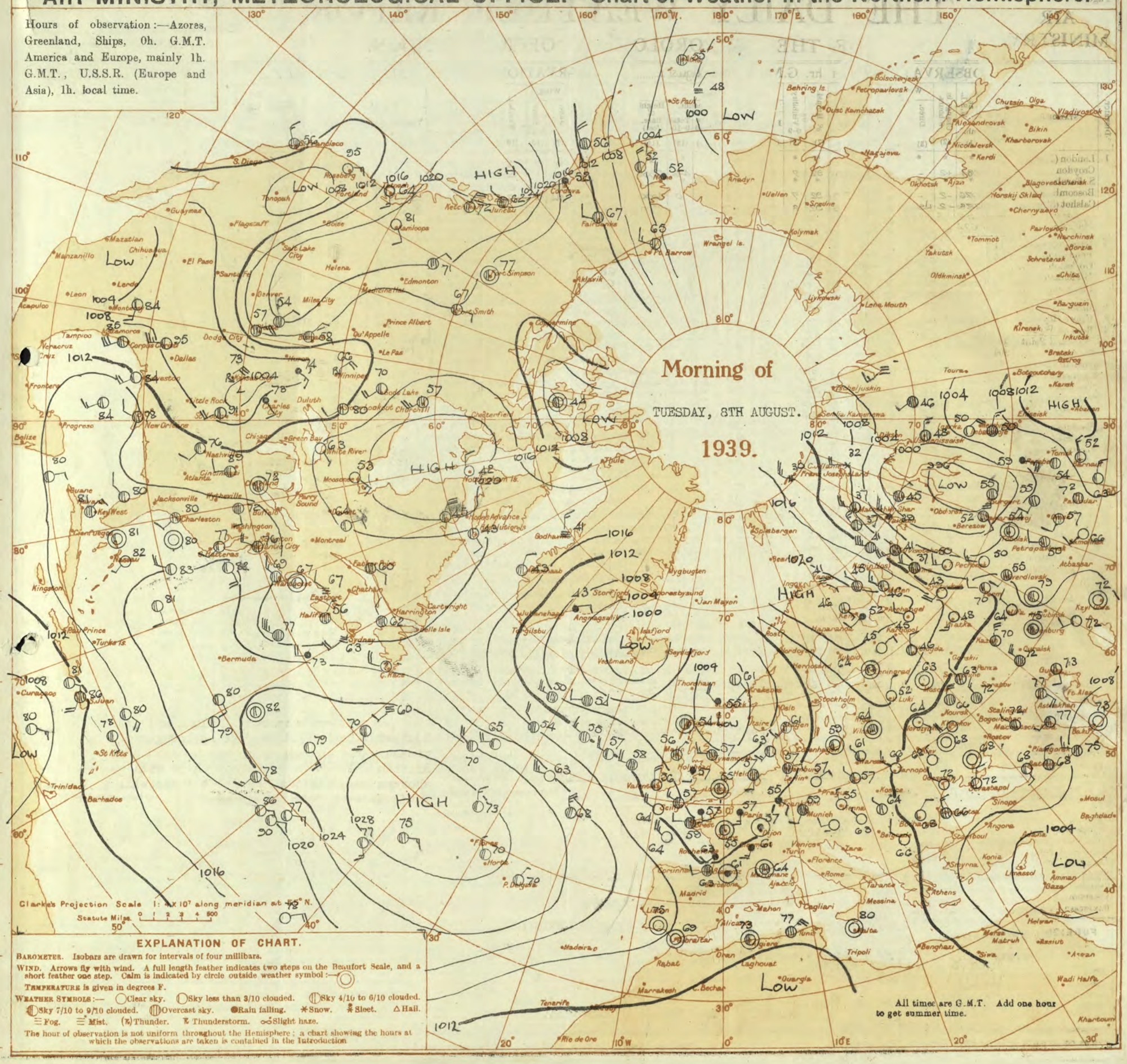
Unsettled.

Forecasts issued at 0930 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, 8th August, 1939.
No. 28383.

OBSERVATIONS at 1 hr. G.M.T. 8th August — OBSERVATIONS at 7 hr. G.M.T. 8th August — PAST 24 HOURS.

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind 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)	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temp. Max. Day 7h–18h °F. (31)	Temp. Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 7th. Hrs. (36)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.7	+6	SW	2	z0	58	85	6	5	3	4	2-3	4-6	4000	1	*	67	55	48	1	Tr	1.6
	Croydon	217	1008.1	+2	–	0	bc	55	92	7	5	3	1	1	4-6	2500	1008.0	0	WSW	1	bc	59	75	7	5	4	4	1	2-3	5700	1	*	66	53	48	0.4	Tr	2.8
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.8	+8	W's	1	c	59	92	8	1	5	1	Tr	7-8	2500	1	*	68	53	46	0.4	1	5.2
	Boscombe Down	417	1007.6	-2	–	0	c	55	92	7	5	1	–	9	10	4000	1007.9	+4	WSW	1	z	57	97	6	5	–	–	10	10	1500	1	*	67	54	53	Tr	Tr	5.2
	Calshot (Sthmtn.)	8	1007.8	-2	WSW	2	c	58	92	8	5	–	–	9+	9+	2500	1008.1	+6	WSW	1	c	60	85	8	5	–	–	10	10	1500	1	§1	66	57	55	0.5	Tr	8.5
	Lympne	346	1008.7	-6	W's	2	b	51	97	8	5	–	–	1	1	2500	1008.4	+2	WNW	1	bc/f	54	97	5	5	4	–	2-3	4-6	<150	1	1	62	50	45	0.2	0.3	1.1
	Manston	154	1007.4	-4	SW	2	c	54	97	7	–	3	–	0	7-8	–	1007.4	+6	W	1	bc	57	92	6	–	3	6	0	4-6	–	1	*	65	48	39	Tr	Tr	1.6
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.6	+8	W	2	c	61	85	8	7	6	1	2-3	7-8	2500	1	*	64	53	46	0.2	Tr	1.2
	Felixstowe	15	1007.1	-4	SW	3	c	59	85	7	5	3	–	4-6	9+	4000	1007.1	+6	WNW	3	z0	57	92	6	–	8	4	0	2-3	–	1	2	67	55	51	Tr	Tr	2.6
	Gorleston	5	1006.5	-4	SW's	3	c	59	85	7	5	–	–	9+	9+	2500	1006.6	+4	WNW	2	bc	58	85	6	5	3	–	2-3	4-6	2500	0	2	69	57	56	Tr	0.1	7.0
	Mildenhall	19	1006.6	+2	SW'W	2	z0	54	97	6	–	3	–	0	4-6	–	1006.9	+10	–	0	z0	54	97	6	–	3	1	0	4-6	–	1	*	66	50	44	Tr	Tr	4.3
	Cranwell	240	1006.6	+2	WNW	2	bc	46	85	7	5	–	–	4-6	4-6	5700	1006.9	+6	WSW	1	z0	56	86	6	5	3	–	1	4-6	5700	1	*	68	48	46	–	–	6.3
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.7	+4	SW	1	c	55	92	7	5	2	–	2-3	10	800	1	*	66	51	41	–	Tr	4.5
	Upper Heyford	408	1007.6	-2	SW	1	c/pr	52	92	7	5	3	–	3	3+	4000	1007.7	+2	W	1	ir	55	97	7	5	7	–	7-8	9+	4000	1	*	69	49	42	–	0.3	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.3	+4	W's	2	c	57	92	7	–	2	–	0	9+	–	1	*	65	54	51	0.2	–	3.4
5	Hartland Point	299	1006.5	0	S	2	c/r	57	97	8	5	2	–	7-8	10	1500	1007.1	+8	WNW	4	ir	59	97	5	5	2	–	9	10	450	1	2	62	56	55	–	0.2	6.[illegible]
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.4	+2	SSW	2	c	58	92	8	5	3	–	7-8	9+	2500	1	*	67	55	51	–	Tr	6.[illegible]
	Portland Bill	32	1007.5	0	WSW	2	c	58	85	8	5	–	–	7-8	7-8	4000	1008.1	+12	SW	2	o	59	85	7	5	–	–	10	10	2500	1	3	60	56	*	–	0.4	*
	Plymouth	82	1007.1	-6	E	1	rr	58	97	6	–	2	–	10	10	450	1008.1	+10	SW'W	1	id	59	97	7	6	2	–	9	10	450	1	1	63	56	56	0.5	2	5.2
	The Lizard	240	1007.7	+4	W'N	5	c	57	97	8	5	–	–	10	10	1500	1009.4	+14	W'N	4	pr	58	97	8	8	4	–	7-8	9	1500	1	2	61	56	*	0.2	0.1	1.6
	Scilly (St. Mary's)	163	1008.0	+4	WNW	3	c	57	97	8	8	–	–	9+	9+	1500	1010.1	+18	NW'N	4	c	59	92	8	8	6	–	4-6	7-8	1500	1	2	62	57	*	0.5	0.2	0.1
	Guernsey	175	1008.0	-4	S	1	dd	57	97	7	5	–	–	10	10	800	1008.4	+10	WSW	2	dF	59	97	1	–	–	–	10	10	<150	1	2	62	56	57	–	5	5.4
6	Pembroke	142	1006.9	0	SW'W	3	rr	59	97	7	5	2	–	7-8	10	2500	1007.7	+6	NW'N	5	cq	57	97	7	8	4	–	9	9+	1500	1	2	62	56	*	Tr	1	4.8
7	Holyhead	26	1005.7	-6	SSW	2	ir	57	97	6	6	2	–	9	10	1500	1005.2	+4	SW'W	1	rr	58	97	7	5	1	–	10	10	220	1	1	62	55	52	0.1	1	4.8
	Chester (Sealand)	16	1006.7	0	–	0	m/f	50	92	4	5	–	–	9	9	7200	1006.5	-2	SE'E	1	ir	54	92	5	5	2	–	9	10	4000	1	*	66	49	44	Tr	0.4	5.4
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.5	+6	–	0	c/r	53	92	5	5	7	–	4-6	9+	5700	1	*	66	43	41	Tr	Tr	2.7
10	Spurn Head	29	1005.4	-2	W'N	4	c	59	92	6	5	–	–	9+	9+	4000	1006.2	+6	WNW	2	bc	58	75	5	–	8	9	0	2-3	–	0	2	72	54	*	–	Tr	4.6
	Catterick	175	1005.0	0	W	1	bc	55	85	8	–	3	–	0	2-3	–	1005.7	+10	–	0	bc	54	92	8	–	3	–	0	2-3	–	1	*	67	48	42	–	–	5.5
	Tynemouth	108	1004.2	-4	W	3	o	57	85	7	5	–	–	10	10	1500	1005.3	+6	W	3	c	56	85	6	8	–	–	9+	9+	1500	1	1	62	56	53	Tr	Tr	7.2
11	St. Abbs Head	280	1004.0	-6	WNW	1	c	59	85	7	8	6	–	4-6	9+	2500	1004.7	+6	WNW	1	c/d	55	85	9	5	2	–	7-8	10	2500	1	1	64	55	*	Tr	0.3	*
	Leuchars	36	1003.8	-2	N	1	c	56	92	7	5	2	–	7-8	9	1500	1004.8	+10	ENE	1	c	55	92	6	5	7	–	7-8	10	800	0	*	71	53	53	–	Tr	8.5
12	Renfrew (Abbots I.)	19	1005.2	-2	WNW	1	z0	50	97	6	5	3	–	4-6	4-6	4000	1005.4	+4	–	0	c	54	85	8	5	3	–	2-3	9	2500	1	*	67	49	45	1	0.5	1.2
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.0	+2	–	0	o	54	97	6	5	–	–	10	10	220	1		62	49	45	4	–	0.3
	Point of Ayre	30	1005.5	0	W's	2	bc	51	97	8	–	4	–	0	2-3	–	1005.5	+2	–	0	c	57	97	8	8	7	–	1	10	4000	1	0	65	49	*	3	0.2	3.5
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.5	+4	NW	2	c	56	85	8	8	5	–	7-8	7-8	2500	1	1	62	53	45	–	2	9.0
13B	Stornoway	80	1006.7	0	–	0	c	54	92	8	5	–	–	7-8	7-8	4000	1005.9	-2	–	0	c	55	92	8	5	7	9	1	9+	2500	1	0	66	49	*	–	–	2.2
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.5	+6	N	1	c	52	85	8	5	6	–	7-8	10	2500	0		65	47	40	1	Tr	2.0
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.9	+8	–	0	c/r	59	97	6	6	2	–	9	10	1500	1	1	56	52	50	–	Tr	0.[illegible]
	Wick	81	1004.6	-4	NW	3	c	55	92	8	5	7	–	7-8	9+	1500	1004.4	+6	NW	3	c	55	92	8	5	7	–	7-8	9+	1500	1	1	56	52	*	–	–	[illegible]
16	Lerwick	156	1003.2	-2	NW'N	4	ir	55	97	7	8	2	–	7-8	10	800	1002.2	+8	NW	4	rr	53	97	7	6	2	–	7-8	10	800	1		62	52	*	Tr	41	1.5
17	Blacksod Point	18	1006.9	+8	W	4	c	56	85	7	8	–	–	10	10	220	1008.5	+14	NW	3	bc	56	85	8	1	5	–	4-6	4-6	1500	1	2	64	52	*	2	Tr	*
18	Malin Head	84	1005.9	+2	ENE	1	c/r	56	85	7	8	–	–	9	9	4000	1006.2	+8	N	1	c	53	92	8	6	–	–	9	9	1500	0	1	60	52	*	–	2	7.3
	Aldergrove	268	1005.3	-2	–	0	ir	56	92	6	5	–	–	10	10	1500	1005.1	+6	SSE	1	d0d0	56	92	6	6	2	–	7-8	10	800	1		67	55	53	–	0.2	4.7
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1007.8	+6	WNW	3	c	54	92	8	5	7	–	7-8	9	2500	1	*	62	50	45	1	2	0.5
20	Valentia Obsy. †	30	1010.2	+6	NNW	4	bc	56	92	8	5	–	–	2-3	2-3	1500	1011.5	+8	NNW	3	c	57	75	8	8	–	–	9+	9+	4000	1	2	62	55	51	0.5	0.3	0.0
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1010.0	+16	NW'W	3	bc	55	85	8	5	4	–	2-3	2-3	2500	1	2	61	53	*	1	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.
Kew	18	crm0id0dc	cprcbc	bcbwm	67	55	48	1	Tr	1.6	*	*	8
Croydon	217	ddir	id0c	bbcwrc	66	53	48	0.4	Tr	2.8	*	*	
Greenwich (Royal Observatory)	149	cr2c	cr2c	cbcir	65	53	45	Tr	Tr.	0.7	83	69	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	65	54	49	0.3		0.2	81	80	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	65	53	47	0.2	Tr		85	77	*
Camden Square	110	c	bc	*	65	54	48	0.3	–		*	73	*
Kensington	80	cpc	bc	*	65	54	48	0.5	Tr.	0.3	At 18h 73	74	*
Hampstead Observatory	450	cir	bc	bcb	62	52	51	r	Tr		*	73	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington.			
Max.	Time.	Min.	Time.
Less than 0.3 whole period			

Kew Observatory.			
Max.	Time.	Min.	Time.
Less than 0.1 whole period			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 7th August Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 8th August 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	1010.9	SSW	3	ir	61	1000.9	W	2	c	59	70	57	Tr	9
Brussels						1008.3	S	2	dd	57		*		4
Berlin	1013.1	SSW	2	bc	68						73		1	
Zurich						1012.9	SE	1	id0	59		55		3
Rome	1013.9	WNW	1	c	75	1012.2	N	1	c	70	*	45	–	2

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 9th August, 1939.
No. 28384.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1008·7	+4	SW	2	c	65	75	8	8	3	–	4-6	9+	4000
	Croydon	1008·6	+2	SW	2	c	67	65	8	8	3	–	4-6	9+	4000
	S. Farnborough	1008·5	+2	SSW	4	pr	66	75	8	8	3	–	7-8	9+	2500
	Boscombe Down	1008·3	+2	S'W	3	ir₀	65	75	7	8	7	–	7-8	9	1500
	Calshot (Soton.)	1009·3	+6	SSW	4	c	65	85	8	8	7	–	9	10	1500
	Lympne ...	1010·0	+8	SW	3	c	64	75	8	5	–	–	9+	9+	5700
	Manston ...	1009·0	+10	SSE	2	pr	64	65	7	8	7	–	7-8	9+	1500
2	Shoeburyness ...	1008·6	+4	–	0	c	66	75	6	8	7	–	7-8	9+	4000
	Felixstowe ...	1008·4	+10	SW	3	c	67	65	8	8	7	–	4-6	7-8	2500
	Gorleston ...	1007·5	+4	E	2	c	64	75	6	2	3	–	4-6	7-8	2500
	Mildenhall ...	1007·9	+6	WSW	3	c	69	65	7	8	3	–	7-8	9	4000
	Cranwell ...	1007·5	+2	WSW	2	ir₀	64	75	7	5	7	–	7-8	9+	4000
3	Birmingham ...	1007·8	0	SSW	2	c/r	60	92	8	6	–	–	9+	9+	1500
	Upper Heyford	1008·1	−2	SSW	1	pr	65	75	8	8	7	–	7-8	9+	1500
4	Ross-on-Wye ...	1007·5	0	W	3	c	65	75	8	8	–	–	9	10	1500
5	Hartland Point	1010·6	+14	WNW	4	bc	60	75	8	8	–	–	4-6	4-6	1500
	Bristol	1008·7	+4	W	4	bc/r	65	85	8	8	3	–	4-6	4-6	2500
	Portland Bill ...	1009·3	+14	WSW	2	c	62	92	8	5	4	–	7-8	10	2500
	Plymouth ...	1011·0	+14	NW'W	4	c	62	55	8	8	–	–	7-8	7-8	2500
	The Lizard ...	1012·3	+20	W'N	5	bc	61	75	8	8	6	–	4-6	4-6	2500
	Scilly (St.Mary's)	1013·1	+10	NW'W	4	bc	64	85	8	2	4	3	1	2-3	2500
	Guernsey ...	1011·2	+14	W'S	4	c	61	85	8	4	2	–	7-8	9+	800
6	Pembroke ...	1010·3	+6	NW	4	bcq	61	85	8	7	6	–	2-3	4-6	2500
7	Holyhead ...	1007·7	+18	W'S	3	c	60	85	8	5	–	–	10	10	2500
	Chester (Sealand)	1007·1	+6	–	0	rr	62	85	6	8	2	–	7-8	10	800
8	Manchester ...	1007·4	+6	S	2	ir₀	61	85	7	5	7	–	9+	10	2500
10	Spurn Head ...	1007·2	+2	–	0	bc	68	55	7	1	4	–	2-3	4-6	4000
	Catterick ...	1005·9	+6	SW'S	3	c	66	65	8	8	3	–	7-8	9+	2500
	Tynemouth ...	1006·5	+8	E	2	c	61	85	7	8	3	–	4-6	7-8	1500
11	St. Abbs Head...	1006·2	+6	–	0	c	60	75	7	8	6	–	4-6	7-8	2500
	Leuchars ...	1005·9	+6	E	3	z₀	60	85	6	5	7	–	7-8	9+	1500
12	Renfrew (AbbotsI.)	1006·6	+8	W'N	3	c	63	65	9	7	7	–	7-8	9	4000
	Eskdalemuir ...	1005·8	+8	SW	2	ir₀	61	65	8	5	1	–	4-6	9+	2500
	Point of Ayre ...	1006·9	+12	–	0	rr	59	97	7	8	7	–	4-6	9+	1500
13A	Tiree	1007·0	+4	W'S	3	c	59	85	8	8	–	–	7-8	7-8	2500
13B	Stornoway ...	1006·4	+6	S	3	c	59	85	8	5	7	–	7-8	9	2500
15	Dalwhinnie ...	1005·7	+4	N	1	c	59	65	8	4	6	–	7-8	9+	2500
	Aberdeen ...	1006·6	+6	NEE	2	c	58	92	6	6	7	–	4-6	9+	800
	Wick	1006·3	+14	SSE	3	c	57	75	8	8	7	–	7-8	9	1500
16	Lerwick... ...	1006·2	+30	W	4	c	55	85	8	5	7	–	7-8	9	1500
17	Blacksod Point...	999·7	+6	NW	3	bc	60	75	9	3	–	–	4-6	4-6	1500
18	Malin Head ...	1007·8	+10	W	3	c	58	85	8	5	6	–	2-3	7-8	2500
	Aldergrove ...	1007·6	+14	NW	2	c/d	58	85	8	8	–	–	9+	9+	1500
19	Birr Castle ...	1009·9	+4	WNW	3	c	62	65	8	5	3	–	7-8	9	2500
20	Valentia Obsy.†	1012·3	+2	W'N	3	bc	61	75	9	8	3	–	2-3	2-3	4000
	Roches Point ...	1011·3	+10	NW'W	3	bc	63	65	9	7	–	3	4-6	4-6	2500

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

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)	Med. (24)	High. (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1009·4	+4	SW	3	c	64	85	8	8	7	–	9+	9+	4000	1	*
Croydon	1009·6	+8	SW	2	c/pr	64	85	8	9	6	–	4-6	9+	4000	1	*
S. Farnborough	1009·6	+6	WSW	3	c	64	85	8	8	3	–	1	9	2500	1	*
Boscombe Down	1010·6	+14	W'N	4	bc	62	65	8	1	4	–	2-3	4-6	4000	1	*
Calshot (Soton.)	1010·2	+6	W'S	2	c	65	75	8	8	8	–	9	9+	2500	1	2
Lympne	1011·0	+4	SWW	3	c/pr	62	85	8	5	7	–	7-8	9	1500	0	§ 3
Manston	1009·8	+6	SSW	1	c/pr	63	92	8	8	7	8	4-6	7-8	4000	1	*
Shoeburyness	1008·6	+6	S	1	pr	61	92	8	9	4	–	9	9+	1500	1	*
Felixstowe	1009·6	+6	SW'S	3	r₀	65	75	7	5	7	–	4-6	9+	2500	1	2
Gorleston	1008·3	+2	NE	1	c	65	85	6	5	–	–	9	9	2500	0	2
Mildenhall	1008·5	+2	S	2	c	63	85	6	8	7	–	7-8	9	4000	1	*
Cranwell	1008·3	+4	S'E	2	c/r	61	92	6	3	7	–	4-6	9+	2500	1	*
Birmingham	1008·9	+8	WNW	2	c	64	55	8	8	6	–	2-3	7-8	2500	1	*
Upper Heyford	1009·0	+4	NW'W	3	c	64	75	8	9	6	–	7-8	7-8	1500	1	*
Ross-on-Wye	1009·5	+10	W'S	3	bc	65	55	9	8	–	–	2-3	2-3	2500	1	*
Hartland Point	1002·5	+10	WNW	4	bc	60	75	8	8	4	–	2-3	4-6	2500	0	3
Bristol	1010·6	+10	W	4	bc	61	75	8	8	3	–	4-6	4-6	2500	1	*
Portland Bill	1011·1	+8	WNW	3	c	61	85	8	2	4	–	4-6	7-8	4000	1	3
Plymouth	1012·9	+10	NW'W	4	bc	61	65	9	7	3	3	2-3	4-6	2500	1	2
The Lizard	1014·3	+6	WSW	3	bc	58	85	8	8	7	–	4-6	4-6	2500	1	2
Scilly (St.Mary's)	1014·4	+4	W'N	4	c	61	85	8	8	8	3	2-3	7-8	2500	0	2
Guernsey	1013·7	+12	W	5	c	60	85	8	1	5	8	4-6	7-8	1500	4	1
Pembroke	1011·8	+8	WNW	5	bcq	60	85	8	7	4	–	2-3	4-6	4000	1	2
Holyhead	1009·4	+10	WNW	2	bc	61	85	9	8	3	4	4-6	4-6	2500	1	2
Chester (Sealand)	1008·8	+10	WNW	4	bc	65	75	8	7	3	–	2-3	4-6	4000	0	*
Manchester	1008·5	+10	W	3	c	63	75	7	8	3	–	4-6	7-8	4000	1	*
Spurn Head	1007·7	+2	SW'W	1	c	66	75	6	5	8	–	7-8	9+	2500	0	0
Catterick	1007·1	+6	–	0	c	64	75	7	8	3	–	7-8	9	2500	–	*
Tynemouth	1007·4	+8	NW	1	c/pr	59	92	5	–	2	–	10	10	1500	1	1
St. Abbs Head	1007·0	+6	S	3	c/pr	59	75	8	8	2	–	7-8	10	2500	1	2
Leuchars	1007·0	+8	E	1	bc	60	85	7	8	3	–	2-3	4-6	1500	0	*
Renfrew (AbbotsI.)	1007·8	+6	W	2	c	63	65	9	7	3	–	4-6	7-8	2500	0	*
Eskdalemuir	1007·2	+6	NWW	1	c/r	59	75	8	5	7	–	9	9+	2500	1	*
Point of Ayre	1008·5	+10	NNW	3	ir₀	57	97	7	8	7	–	4-6	9+	1500	1	2
Tiree	1008·0	+6	WNW	2	bc	58	75	8	7	3	6	2-3	4-6	2500	0	1
Stornoway	1007·3	+6	–	0	c/pr	57	85	9	8	5	–	9	9+	2500	1	0
Dalwhinnie	*	+12	–	0	ir	54	85	8	5	2	–	4-6	10	2500	1	*
Aberdeen	1007·3	+2	E'N	1	c	59	92	6	5	3	–	7-8	9+	800	1	1
Wick	1007·8	+6	ESE	3	c	55	85	8	5	2	–	9	10	1500	1	1
Lerwick	1007·5	+4	S'E	4	c	55	85	8	5	3	–	4-6	7-8	1500	0	*
Blacksod Point	999·7	0	W	3	bc	59	75	9	1	5	4	1	4-6	4000	0	2
Malin Head	1009·3	+4	NW	3	c	59	75	8	2	5	–	2-3	7-8	5700	0	1
Aldergrove	1008·9	+6	WNW	1	c/r	59	75	9	8	–	–	9	9	2500	1	*
Birr Castle	1010·2	+4	WNW	2	bc	64	55	8	5	3	–	4-6	4-6	2500	1	*
Valentia Obsy.†	1011·5	−6	S'W	3	c	60	75	8	5	–	–	10	10	1500	1	2
Roches Point	1011·7	+2	NW	2	c/pr	61	75	9	3	1	–	4-6	9	1500	1	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 8th (37)	13h.—18h. 8th (38)	18h. 8th to 1h. 9th (39)	1h.—7h. 9th (40)
London (Kew)	bcm₀c	cprtPRhc	cbccw	cw
Croydon	bcc	cPR pr₀	cbcc	bccw
S. Farnborough	cpr₀pr	pr₀PRc	c,bbc	bcwc
Boscombe Down	c	ir₀ rrcbc	bcbbc	bcc
Calshot (Soton.)	crrc	cpr₀ ir₀c	cbw	bwbcc
Lympne	bcm₀bcc	cprc	cbcw ⊕	cbcw
Manston	cm₀cpr₀	cpr₀t	ccw	cbcw
Shoeburyness	bcpcm₀	cm₀ptP	crbc	bcm₀
Felixstowe	bcm₀bcy	ccir₀	r₀r₀cprc	bcm₀
Gorleston	bcc	c	cpr₀c	cbc
Mildenhall	bccz₀c	c cpr₀	cpr₀m₀prb	bcbcm₀
Cranwell	bccr₀	cr₀ir₀d₀r₀d	cir₀bcm₀	bcbm₀w
Birmingham	•coirc	cPHRbc	bc	bcc
Upper Heyford	cir₀c	cPRtc	cbbcw	bcc
Ross-on-Wye	cPir₀orrc	bcv	bcvbbc	bccp₀
Hartland Point	r₀cbc	bccbc	bcc	codc
Bristol	cd₀Rcbc	bc	bcbbcw	bcwc
Portland Bill	cpr	c	bc	bcc
Plymouth	oid₀cbc	bccbc	bcbbc	bccd₀dDD
The Lizard	pr₀bc	bccbc	bccpr	ordfc
Scilly (St.Mary's)	cbc	bcc	od₀d₀m	od₀ifc
Guernsey	cidc	bcc	cbc	bccd₀
Pembroke	cbcq	bcq	bcpr₀c	ddm₀p
Holyhead	cr₀r₀c	c,bc	c,bcw	bccpr₀
Chester (Sealand)	cd₀rrm₀	c,bc	bbc	bcwm₀
Manchester	cmc, r₀	cr₀r₀cr₀r₀c	bccm₀r₀	cm₀fbcm
Spurn Head	cbc	bcc	PRl₀	bcm₀
Catterick	bWbcc	C	pr₀cbc	bcbcw
Tynemouth	cbcc	cp₀	oir₀bc	bc
St. Abbs Head	cbcc	prc	rrc	ir₀c
Leuchars	cm₀ccm	cm₀cbc	cm₀fgw	cm₀fgw,b
Renfrew (AbbotsI.)	cwc	ccir₀cbc	bccw	cbcbwfgbcw
Eskdalemuir	bccir₀	cir₀	cir₀	cbcw
Point of Ayre	crr	rrir₀	ir₀bc	bbcw
Tiree	bcc	cbc	bcc	c
Stornoway	cpr	cPR	cbcpr₀	c
Dalwhinnie	c	crr	•	ciR
Aberdeen	crr₀c	cocm₀	cm₀w	cwbc
Wick	c	c	cl	clm₀
Lerwick	crr	c	cpr₀r₀	cr₀r₀ir
Blacksod Point	bc	bc	bc	pr₀c
Malin Head	c	cbcc	cbc	c
Aldergrove	m₀d₀d₀o	d₀pr₀ir₀	cpr₀bbc	bcbbcwc
Birr Castle	c	cbcy	bcc	cir₀
Valentia Obsy.†	cbc	bcc	cld	id₀
Roches Point	pr₀bc	cpr₀c	cpr₀c	cffec

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.

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.*

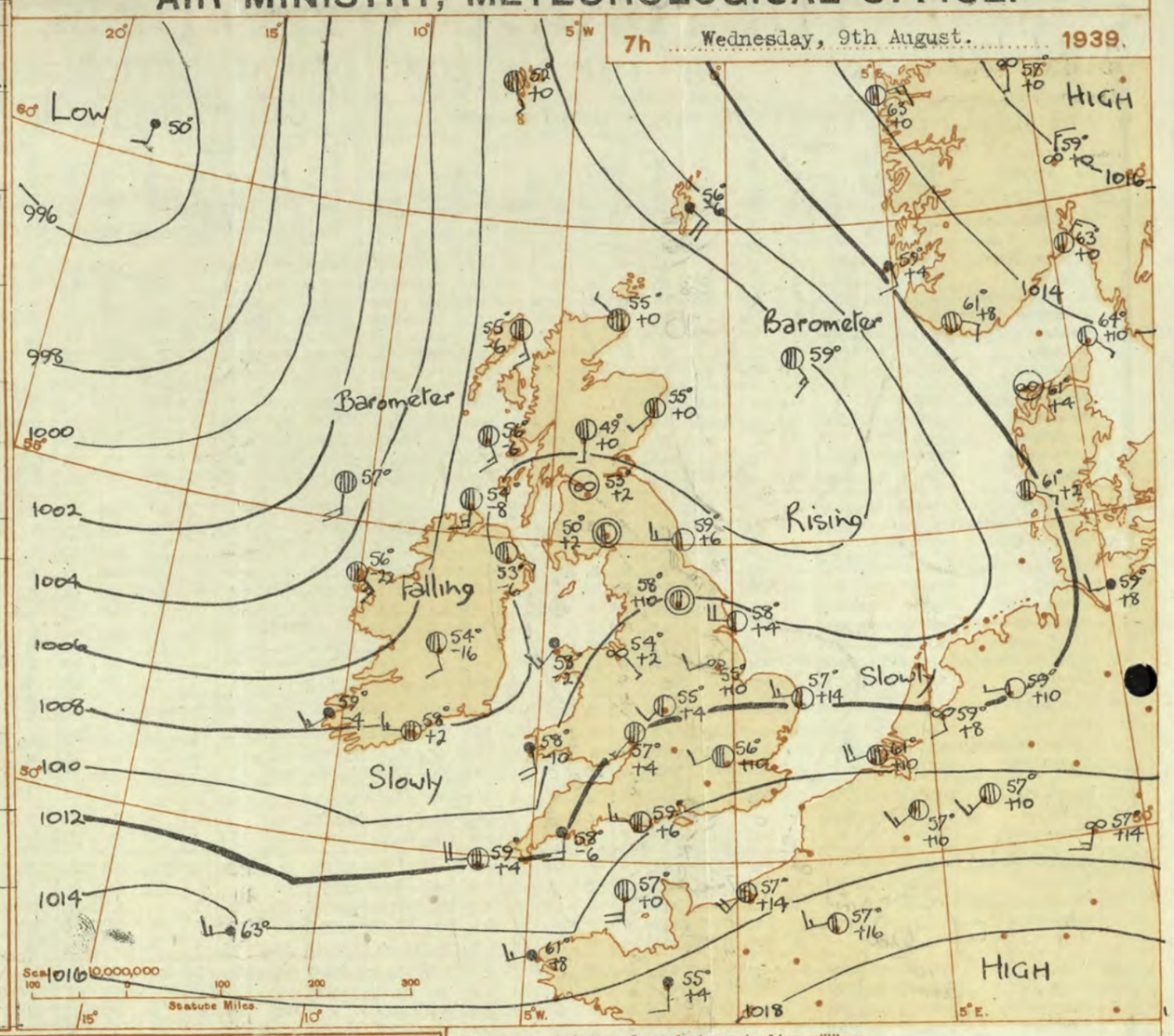
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 8th August 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 7th to 9h. 8th	Temperature. (°F) Max. 9h.—17h. 8th	Rainfall. (mm.) Night. 17h. 7th to 9h. 8th	Rainfall. (mm.) Day. 9h.—17h. 8th	Sunshine. (Hrs.) Sunrise to 17h. 8th	Sunshine. (Hrs.) Sunrise to Sunset. 7th
1	Tunbridge W.	bcc	bcc	47	70	–	–	6·1	0·7
	Bournemouth	pc	cpcpc	58	66	Trace	1	0·2	7·7
	Ventnor ...	poc	cbc	56	64	1	Trace	1·1	6·8
	Southsea ...	cbc	cbc	55	67	Trace	–	1·6	7·2
	Bognor Regis	bc	bcbcc	57	66	0·5	–	4·4	5·5
	Littlehampton	bc	bc	56	65	Trace	–	4·8	5·7
	Worthing ...	bc	bc	55	67	0·3	–	5·1	4·4
	Brighton ...	bc	bc	57	66	–	–	6·1	3·4
	Eastbourne† ...	c	cbc	55	67	0·3	–	6·2	1·2
	Hastings† ...	bc	bcbbc	57	66	0·3	–	6·0	1·0
	Folkestone ...	bcbcc	cpcbc	52	68	Trace	Trace	7·7	1·5
	Dover ...	bc	bccbc	51	65	–	–	8·3	1·5
	Deal	bbc	cbcc	50	70	–	–	7·6	2·3
	Ramsgate ...	bc	bcpbc	53	69	Trace	3	6·0	2·0
	Margate ...	bc	bccp	52	65	Trace	1	7·0	2·7
2	Southend ...	bzorc	cor	53	70	–	1	3·7	0·7
	Clacton-on-Sea	wbc	bc	53	69	0·2	–	5·0	2·3
	Dovercourt ...	bc	bcoc	53	71	–	–	7·6	2·9
	Lowestoft ...	bcb	bcbc	55	68	1	–	6·5	6·6
	Skegness ...	bcocb	bcb	50	67	4	–	4·7	5·8
	Mablethorpe...	bcybc	bcbcc	48	71	–	–	5·6	6·5
	Cleethorpes ...	bc	bc	50	71	–	–	8·1	5·5
3	Leamington S.	odc	copc	52	69	0·2	4	1·6	3·9
4	Cheltenham†	c	bcRt	55	69	Trace	4	2·5	6·5
5	Bath	cp	pobcb	57	67	Trace	0·5	4·1	6·7
	Weymouth ...	c	pocb	58	65	2	–	3·8	8·7
	Jersey ...	rc	cbc	57	65	3	–	2·4	1·8
	Torquay ...	cvpbc	bcvy	58	67	1	1	5·2	8·3
	Falmouth ...	b	b	58	65	0·3	–	7·3	2·2
	Penzance ...	b	bbcc	57	66	0·5	–	9·2	0·9
	St. Ives ...	b	b	54	64	1	–	8·1	1·4
	Bude... ...	cbc	bc	58	62	1	–	6·0	6·5
	Ilfracombe ...	codo	cbc	58	63	0·6	–	5·6	7·2
6	Aberystwyth	cprc	bcc	56	63	2	–	1·5	4·8
7	Llandudno ...	cr.	cbc	54	63	1	Trace	2·6	6·5
	Colwyn Bay...	odo	ocpcb	52	64	0·5	Trace	1·3	4·8
	Rhyl	cro	cbc	51	64	0·3	–	3·8	3·4
8	Wallasey ...	odop	cbc	53	64	1	Trace	2·6	5·1
	Southport ...	pocoz	pocbc	54	66	0·1	Trace	1·5	3·8
	Blackpool ...	odoc	cbcc	55	65	2	0·3	1·1	4·4
	Morecambe ...	cdr	cbc	50	64	–	0·3	2·0	6·7
9	Ilkley... ...	bc	bcor	47	66	–	0·3	3·5	2·9
	Harrogate ...	bc	bcc	50	65	–	–	5·0	3·5
10	Berwick-on-T.	oc	iroc	55	62	0·5	Trace	1·9	9·6
11	Dunbar ...	cmoro	cmo	54	61	0·3	–	2·1	8·1
12	Troon... ...	bccoc	copoc	52	63	–	Trace	1·5	3·8
	Douglas ...	cido	c	51	61	0·3	0·3	0·5	4·3

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind southwest moderate; mainly cloudy with periods of light rain or drizzle; 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. 13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland	Wind south to southwest, moderate; some local rain or showers but bright periods; average temperature.
15 N. E. Scotland 16 Orkney and Shetland	Wind south, fresh or strong; cloudy; occasional rain; sea mist or fog; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1 - 6.

GENERAL INFERENCE.

A depression will remain stationary in the neighbourhood of Iceland and a complex trough of low pressure lies over the British Isles and the North Sea. The weather will remain generally unsettled with periods of rain or drizzle in all districts.

FURTHER OUTLOOK.

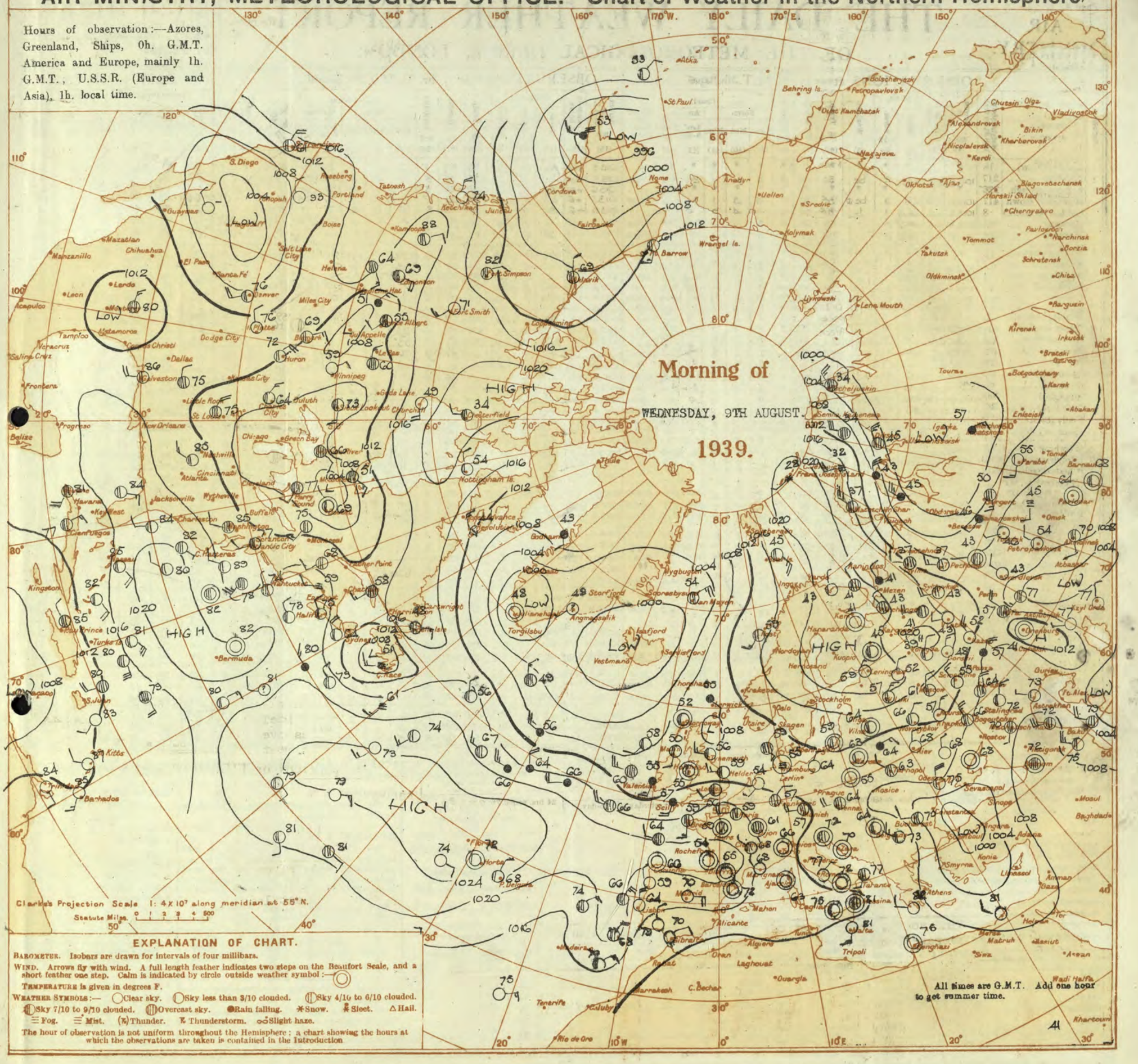
Unsettled.

Forecasts issued at 0930 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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 9th August, 1939.
No. 28384.

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

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	1012.4	+6	WSW	2	bc	56	92	8	5	3	1	2-3	4-6	5700
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1013.3	+6	W'N	3	bcU	52	92	7	5	3	1	1	4-6	4000
	Calshot (Sthmtn.)	8	1013.3	+6	WSW	1	b	53	92	8	–	4	9	0	1	–
	Lympne	346	1012.8	+6	WNW	3	c	55	85	8	5	–	6	2-3	7-8	4000
	Manston	154	1011.6	+8	WSW	3	c	58	92	7	5	–	–	9	9	5700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1010.8	+6	W	4	z₀	61	92	6	–	3	–	8	4-6	–
	Gorleston	5	1009.8	+2	SW'W	1	c	61	85	7	8	3	–	4-6	7-8	2500
	Mildenhall	19	1010.4	+8	WNW	2	bc	56	97	7	–	3	–	0	2-3	–
	Cranwell	240	1010.4	+6	WSW	2	z₀	54	92	8	5	3	–	2-3	2-3	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1012.6	+6	W'S	2	c	50	97	8	–	3	1	0	7-8	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012.9	0	WSW	4	c	58	65	8	6	6	–	4-6	7-8	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1013.5	+12	W	3	bc	59	92	8	5	–	–	4-6	4-6	4000
	Plymouth	82	1014.4	-2	NE	1	bc	53	92	7	–	3	–	0	4-6	–
	The Lizard	240	1014.2	-6	SSW	4	pr	58	97	7	5	–	–	10	10	1500
	Scilly (St. Mary's)	163	1013.1	-14	S'W	4	d₀d₀	57	97	4	5	–	–	10	10	800
	Guernsey	175	1015.3	-4	W	2	bc	56	65	8	–	3	8	0	4-6	–
6	Pembroke	142	1012.6	+6	W'S	3	c	59	92	8	8	7	–	4-6	9	2500
7	Holyhead	26	1010.7	0	–	0	bc	55	92	8	–	4	6	0	4-6	–
	Chester (Sealand)	16	1011.3	+6	WSW	1	bc	53	92	7	–	3	–	0	2-3	–
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1005.1	+2	W	3	bc	59	92	5	5	8	–	2-3	4-6	4000
	Catterick	175	1009.2	+2	–	0	bc	53	92	7	5	3	–	2-3	4-6	4000
	Tynemouth	108	1009.0	+2	W	3	bc	56	92	7	2	3	–	2-3	4-6	2500
11	St. Abbs Head	280	1008.4	+4	WNW	3	c	58	75	7	4	3	–	4-6	9	2500
	Leuchars	36	1008.2	+2	W	1	cfg	55	92	6	4	3	–	4-6	7-8	1500
12	Renfrew (Abbots I.)	19	1009.5	-2	WNW	1	c	51	92	8	5	3	–	7-8	9	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1010.0	+4	NW	3	bc	56	92	8	5	–	–	4-6	4-6	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1010.2	0	–	0	bc	52	92	7	2	3	–	Tr	2-3	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1008.6	+4	NE	1	c	55	97	7	5	2	–	9	10	800
16	Lerwick	156	1010.8	+2	SE	2	r₀r₀	55	97	7	6	2	–	7-8	10	800
17	Blacksod Point	18	1008.7	-12	S	3	bc	56	85	8	4	–	–	4-6	4-6	800
18	Malin Head	84	1009.9	0	S	1	bc	50	85	8	1	–	–	2-3	2-3	5700
	Aldergrove	268	1010.2	0	ESE	1	bc	51	92	8	5	3	–	2-3	2-3	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1008.7	-4	S'W	3	r₀r₀	55	97	6	5	–	–	9+	9+	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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	+14	SW	2	c	56	92	7	5	–	–	9+	9+	4000	1	*
Croydon	1013.7	+10	WSW	1	c	56	92	8	5	4	–	4-6	9	7200	1	*
S. Farnborough	1013.6	+10	SW	2	c	55	85	8	–	3	–	0	9+	–	1	*
Boscombe Down	1013.7	+6	S'W	2	c	54	92	7	1	3	1	Tr	7-8	2500	1	*
Calshot (Sthmtn.)	1013.9	+6	SW	2	c	57	92	8	2	5	8	Tr	9	2500	1	1
Lympne	1014.0	+10	W	1	bc	53	92	8	5	3	4	2-3	4-6	<150	0	§2
Manston	1013.3	+14	W'S	2	bc	58	92	7	–	3	6	0	2-3	–	1	*
Shoeburyness	1013.1	+12	SW	3	bc	59	85	6	7	–	–	2-3	4-6	2500	1	*
Felixstowe	1012.4	+14	WNW	4	b	58	85	7	–	4	5	0	1	–	1	2
Gorleston	1011.7	+14	W	3	bc	57	85	6	–	4	–	0	2-3	–	0	2
Mildenhall	1012.2	+14	WSW	2	bc	56	92	7	1	3	1	Tr	2-3	2500	1	*
Cranwell	1011.4	+10	WSW	2	z₀	55	92	6	–	4	1	0	Tr	–	1	*
Birmingham	1011.9	+4	SW	2	bc	55	85	7	–	7	–	0	4-6	–	1	*
Upper Heyford	1012.8	+2	WSW	2	z₀	54	92	6	5	–	–	9+	9+	4000	1	*
Ross-on-Wye	1012.0	+4	SW'S	1	c/pr	57	85	7	–	7	–	0	9+	–	1	*
Hartland Point	1011.2	-4	S	3	c/d	57	97	6	5	2	–	7-8	9+	800	0	2
Bristol	1013.0	+6	SSW	3	c	56	85	8	5	7	–	4-6	7-8	4000	1	*
Portland Bill	1013.8	+6	W	3	c	59	85	8	5	–	–	10	10	4000	1	3
Plymouth	1012.2	-6	S	3	r₀r₀	58	97	4	–	2	–	10	10	<150	1	1
The Lizard	1012.0	0	SW	4	c	59	97	7	8	2	–	7-8	10	1500	1	2
Scilly (St. Mary's)	1011.4	+4	WSW	4	cjp	59	97	7	8	7	–	7-8	9+	1500	1	2
Guernsey	1014.6	0	S'W	4	c/d	57	92	7	8	2	–	9	10	800	1	3
Pembroke	1009.6	-10	S'E	4	dd	58	85	5	5	–	–	10	10	2500	1	2
Holyhead	1009.6	-2	SW'S	3	pr	58	85	8	2	7	–	2-3	9+	1500	1	1
Chester (Sealand)	1011.0	+2	SE	1	z₀	55	92	6	5	3	–	4-6	9	4000	1	*
Manchester	1011.0	+6	SSE	1	m/f	52	97	4	–	3	–	0	7-8	–	1	*
Spurn Head	1010.3	+8	W'N	4	bc	58	85	5	–	6	–	0	2-3	–	1	3
Catterick	1009.9	+10	–	0	c	58	85	8	7	3	1	4-6	7-8	4000	1	*
Tynemouth	1008.6	+6	W	3	bc	59	85	6	2	6	–	4-6	4-6	2500	1	1
St. Abbs Head	1008.6	+8	–	0	c/r	56	85	8	8	6	–	4-6	7-8	2500	1	1
Leuchars	1008.1	+2	WSW	2	bc	54	85	9	5	3	–	Tr	2-3	4000	0	*
Renfrew (Abbots I.)	1009.5	+2	–	0	z₀	53	85	6	7	3	–	1	2-3	4000	0	*
Eskdalemuir	1009.3	+2	–	0	bc	50	85	8	5	5	6	Tr	4-6	<150	1	*
Point of Ayre	1009.3	-2	SE'S	1	bc	57	85	8	1	3	4	Tr	4-6	4000	1	1
Tiree	1007.0	-6	SSE	3	c	56	85	8	7	3	–	4-6	7-8	2500	0	2
Stornoway	1008.5	-6	SSE	3	c	55	85	9	5	5	–	4-6	9+	2500	1	1
Dalwhinnie	*	0	S	1	c	49	97	7	5	6	–	7-8	10	2500	1	*
Aberdeen	1007.6	0	SW	1	c	55	97	6	5	3	–	1	7-8	1500	1	1
Wick	1007.1	0	NW	1	c	56	97	6	5	7	–	7-8	9	1500	1	1
Lerwick	1009.5	-6	SE	4	r	56	97	6	6	2	–	4-6	10	450	1	*
Blacksod Point	1004.4	-22	SE	3	c	56	92	8	5	–	–	10	10	450	0	2
Malin Head	1007.1	-8	S	3	c	54	85	8	5	4	9	4-6	7-8	5700	0	1
Aldergrove	1008.3	-6	SE'E	1	c	53	85	8	–	7	6	0	9+	–	1	*
Birr Castle	1007.1	-16	S'E	2	c/r	54	97	8	6	2	–	4-6	10	1500	1	*
Valentia Obsy. †	1007.6	-4	SW'S	3	id	59	97	7	5	–	–	10	10	800	1	2
Roches Point	1008.0	+2	W	3	c/f	58	97	8	5	1	–	7-8	9	800	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 8th Hrs. (36)
London (Kew)	69	54	48	3	Tr	3.6
Croydon	70	53	48	1	–	3.3
S. Farnborough	67	50	44	0.6	Tr	2.7
Boscombe Down	66	49	47	2	Tr	2.8
Calshot (Sthmtn.)	67	51	49	0.5	–	1.8
Lympne	67	51	49	3	–	6.1
Manston	68	54	51	0.5	–	6.2
Shoeburyness	69	54	51	4	1	4.2
Felixstowe	72	55	53	Tr	0.4	6.1
Gorleston	67	56	54	–	–	5.8
Mildenhall	71	51	47	0.1	2	7.1
Cranwell	66	51	49	0.3	0.1	3.3
Birmingham	66	51	47	5	–	2.7
Upper Heyford	67	49	41	3	–	*
Ross-on-Wye	68	52	47	1	Tr	6.2
Hartland Point	61	55	54	Tr	Tr	7.9
Bristol	66	53	47	2	–	6.4
Portland Bill	64	56	*	0.2	–	*
Plymouth	63	52	51	0.3	1	5.6
The Lizard	63	55	*	Tr	1	8.9
Scilly (St. Mary's)	64	56	*	–	1	7.4
Guernsey	64	55	49	0.5	Tr	4.5
Pembroke	61	56	*	–	1	3.3
Holyhead	64	53	47	Tr	Tr	4.3
Chester (Sealand)	63	49	42	7	–	4.1
Manchester	64	47	43	0.6	0.2	2.1
Spurn Head	71	55	*	–	12	8.2
Catterick	69	50	44	–	Tr	6.5
Tynemouth	62	55	51	0.2	1	3.0
St. Abbs Head	62	53	*	0.2	0.2	*
Leuchars	63	49	45	–	–	2.8
Renfrew (Abbots I.)	65	43	39	Tr	–	1.9
Eskdalemuir	63	42	36	Tr	Tr	1.4
Point of Ayre	64	48	*	5	0.2	1.0
Tiree	62	48	44	–	–	5.9
Stornoway	62	51	*	7	Tr	2.7
Dalwhinnie	62	40	32	1	4	1.4
Aberdeen	59	52	43	1	–	0.0
Wick	61	53	*	–	–	*
Lerwick	58	54	*	4	1	6.4
Blacksod Point	63	54	*	–	0.2	*
Malin Head	61	47	*	–	–	3.0
Aldergrove	62	46	38	1	0.1	0.6
Birr Castle	65	51	41	–	0.4	4.3
Valentia Obsy. †	63	56	65	–	1	3.0
Roches Point	63	56	*	Tr	0.1	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bcm₀c	cprtPRhc	cbccwcw	69	54	48	3	Tr	3.6	•	•	8
Croydon	217	bcc	cPRpr₀	cbcccw	70	53	48	1	–	3.3	•	•	8
Greenwich (Royal Observatory)	149	c	crRicr	r₀c	71	52	46	3	Tr	3.5	88	82	6
City (Sunhill Row)	—	•	•	•	•	•	•	•	•	*	•	•	•
Westminster (St. James' Park)	27	•	•	•	70	54	49	4		3.3	57	86	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	71	52	47	9	–	1.1	70	88	•
Camden Square	110	bc	c	•	71	54	49	8	–	*	•	81	•
Kensington	80	bectc	cpc	•	72	54	48	5	Tr	3.2	At 18h 85	83	•
Hampstead Observatory	450	bc	bcorr L	bc	68	51	50	11	–	*	•	89	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
Less than 0.3 whole period.			

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
Less than 0.1 whole period			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 8th August Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 9th August 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	1012.2	W	3	c	68	1017.7	WSW	3	bc	54	72	54	–	2
Brussels	1010.3	NW	3	c	66	1014.5	SW	3	c	57	72	55	–	3
Berlin	1009.7	SSE	1	c	68	1010.3	NE	1	z₀	64	81	61	1	2
Zurich	1011.8	NW	1	tlr₀	52						68		7	
Rome	1011.4	WNW	2	bc	75						*	*	–	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30 — Code for State of Sea.

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

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 9 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 10th August, 1939.
No. 28385.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	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)...	1013·0	+2	SSW	3	c	63	75	8	5	–	–	10	10	2500
	Croydon	1013·4	-2	S'W	3	c	64	75	8	4	7	–	4-6	10	4000
	S. Farnborough	1013·1	-2	S	3	ido	61	85	8	5	–	–	10	10	1500
	Boscombe Down	1012·4	-10	S	4	dodo	59	97	6	–	2	–	10	10	450
	Calshot (Soton.)	1013·4	-6	S'E	4	dodo	61	97	5	6	2	–	9+	10	220
	Lympne ...	1014·7	+2	SWS	4	c	64	75	5	1	7	–	4-6	9	2500
	Manston ...	1013·8	+2	SSW	4	c	68	55	8	2	3	2	2-3	9	2500
2	Shoeburyness ...	1013·4	-4	S'W	4	c	69	65	8	7	3	–	4-6	9+	2500
	Felixstowe ...	1013·2	-2	SW	4	c	71	55	8	2	3	4	2-3	7-8	2500
	Gorleston ...	1012·3	+2	S	5	c	69	55	6	8	3	-	4-6	7-8	2500
	Mildenhall ...	1011·7	-4	SSW	4	c	69	55	8	8	3	9	4-6	9	4000
	Cranwell ...	1010·8	-4	SW	3	o	65	65	8	5	7	–	9	9+	2500
3	Birmingham ...	1010·7	-6	SSE	3	o	60	75	8	6	–	–	10	10	1500
	Upper Heyford	1012·3	-2	S	4	ido	60	85	6	5	-	-	10	10	800
4	Ross-on-Wye ...	1010·0	-14	S'W	3	c	63	85	8	5	-	-	10	10	2500
5	Hartland Point	1009·8	-4	SW	4	if	60	97	7	5	2	-	9	10	450
	Bristol	1011·4	-8	S'W	3	c	63	85	8	5	7	-	7-8	10	1500
	Portland Bill ...	1012·4	-12	SW	4	c	61	85 97	7	5	-	-	10	10	2500
	Plymouth 1012·2 ...	1020·0 (circled)	+4	SSW	4	ido	61	~~92~~ 97	6	6	2	-	9+	10	800
	The Lizard ...	1012·0	0	SSW	4	if	61	97	3	5	-	-	10	10	800
	Scilly (St. Mary's)	1011·2	-2	SWW	5	df	61	97	3	-	-	-	10	10	<150
	Guernsey ...	1014·6	+2	SW	3	F	61	97	1	-	-	-	10	10	<150
6	Pembroke ...	1008·7	-6	SW	4	c/d	61	97	7	5	-	·	9+	9+	800
7	Holyhead ...	1005·8	-22	S	4	dodo	59	97	6	5	-	-	10	10	450
	Chester (Sealand)	1008·1	-14	SSE	4	c	63	75	8	5	2	·	7-8	9+	2500
8	Manchester ...	1009·1	-10	S	4	iro	62	65	8	7	7	·	2-3	10	1500
10	Spurn Head ...	1010·4	0	SWS	3	c	69	55	7	5	7	-	4-6	9+	2500
	Catterick ...	1007·9	-10	SW	2	c	67	55	7	8	3	-	4-6	9+	2500
	Tynemouth ...	1008·3	-8	SE	3	c	60	85	6	8	·	-	9+	9+	1500
11	St. Abbs Head...	1007·3	-8	SE	3	c	60	75	8	3	4	8	4-6	10	2500
	Leuchars ...	1006·6	-8	S	3	c	64	55	8	5	1	-	2-3	10	2500
12	Renfrew (Abbotsl.)	1006·1	+22	S	3	c	63	55	8	7	7	8	4-6	10	2500
	Eskdalemuir ...	1006·4	-14	S	3	c	60	65	8	5	7	-	7-8	9+	2500
	Point of Ayre ...	1006·4	-16	S	4	c	57	92	7	6	2	-	7-8	10	800
13A	Tiree	1002·6	-24	SE	4	c	58	85	7	5	1	-	7-8	9+	2500
13B	Stornoway ...	1005·6	-20	S	4	c	60	75	9	5	7	8	2-3	9+	2500
15	Dalwhinnie ...	*	-14	SSW	4	c	58	55	8	4	1	-	2-3	10	2500
	Aberdeen ...	1006·5	-6	S	4	c	62	65	8	1	-	6	Tr	9	1500
	Wick	1005·1	-10	SSE	3	c	60	85	8	8	8	1	4-6	7-8	1500
16	Lerwick... ...	1006·4	-20	S'W	4	c	57	92	7	5	3	-	4-6	7-8	800
17	Blacksod Point...	1001·4	-10	S	4	rr	58	97	7	6	-	·	10	10	<150
18	Malin Head ...	1001·9	-26	S	5	pr	57	85	6	9	–	-	9+	9+	1500
	Aldergrove ...	1003·9	-24	SSE	4	c	59	85	8	5	-	-	10	10	1500
19	Birr Castle ...	1004·8	-16	S	3	iro	62	85	7	6	2	-	4-6	10	800
20	Valentia Obsy.†	1003·8	-26	-	0	roro	59	97	7	5	2	-	4-6	10	800
	Roches Point ...	1005·0	-26	SW	3	rr	59	97	6	6	2	-	7-8	10	800

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1011·5	-14	SW	4	roro	62	83	7	5	–	–	10	10	1500	1	*
Croydon	1012·4	-6	SSW	3	iro	63	85	7	6	2	–	9	10	800	1	*
S. Farnborough	1011·5	-6	SW	4	c/r	63	92	7	6	–	–	10	10	800	1	*
Boscombe Down	1011·1	-6	SSW	4	dodo	62	97	6	6	2	–	9	10	800	1	*
Calshot (Soton.)	1012·4	-6	SSW	5	dd	62	97	6	–	2	–	10	10	220	1	3
Lympne	1014·1	-12	SSW	4	df	60	97	3	–	–	–	10	10	<150	0	§4
Manston	1013·4	-10	S	4	dodo	60	92	6	6	–	–	10	10	450	1	*
Shoeburyness	1012·9	-6	S	4	c	63	92	8	5	2	-	7-8	10	800	1	*
Felixstowe	1013·0	-2	S'W	5	c	63	85	8	6	2	-	9+	10	1500	0	3
Gorleston	1011·5	-2	SSW	5	c	68	55	8	5	7	-	2-3	7-8	2500	0	3
Mildenhall	1010·8	-8	S'W	4	c	64	75	7	5	2	-	7-8	10	2500	1	*
Cranwell	1009·4	-10	S'E	4	c	62	85	7	5	–	–	9	10	1500	1	*
Birmingham	1008·2	-14	SSE	2	rr	61	97	6	6	–	–	10	10	800	1	*
Upper Heyford	1010·5	-10	SSE	4	roro	61	92	6	6	2	–	9+	10	450	1	*
Ross-on-Wye	1007·9	-12	SWS	3	roro	63	92	7	6	–	–	10	10	1500	1	*
Hartland Point	1007·5	-14	SW	6	c	62	92	6	6	2	-	4-6	9+	800	1	4
Bristol	1009·8	-4	S'W	4	c/r	64	85	8	6	2	-	7-8	10	1500	1	*
Portland Bill	1011·3	-8	WSW	4	o	61	85	7	5	–	–	10	10	2500	1	4
Plymouth	1011·3	-2	SWW	5	zo	61	92	6	5	–	–	10	10	450	1	3
The Lizard	1011·3	-4	SSW	5	c	61	97	7	8	2	-	7-8	10	1500	1	3
Scilly (St. Mary's)	1010·1	-2	SW	5	c	61	97	7	5	2	-	4-6	10	1500	1	3
Guernsey	1014·5	0	SW	4	o	61	97	6	5	–	–	10	10	<150	1	3
Pembroke	1005·0	-24	SW	7	rr	60	97	4	6	2	-	7-8	10	800	1	4
Holyhead	1001·9	-36	S	4	rr	59	97	5	–	2	-	10	10	220	1	2
Chester (Sealand)	1004·6	-24	SSE	3	rr	62	92	6	5	–	-	10	10	2500	1	*
Manchester	1005·8	-22	SSE	4	rr	62	85	6	6	2	-	4-6	10	1500	1	*
Spurn Head	1008·4	-8	S'W	4	c	63	75	7	5	2	-	4-6	10	2500	0	2
Catterick	1005·6	-18	S'E	2	zo	60	85	6	5	2	-	7-8	10	1500	1	*
Tynemouth	1005·0	-16	S	4	c	62	75	6	8	–	–	9+	9+	1500	1	1
St. Abbs Head	1003·0	-22	SE	5	iro	59	85	7	5	2	-	7-8	10	1500	1	3
Leuchars	1002·7	-28	SE	2	iro	60	85	7	5	2	-	9	10	1500	0	*
Renfrew (Abbotsl.)	1001·6	-30	SE	2	RR	57	97	5	5	2	-	7-8	10	800	1	*
Eskdalemuir	1002·5	-28	SSE	3	dodo	56	92	6	6	–	–	10	10	800	1	*
Point of Ayre	1002·5	-14	SWS	2	roro	58	97	7	6	2	-	7-8	10	800	1	2
Tiree	998·4	-24	SSE	4	rr	56	97	6	–	2	-	10	10	800	1	4
Stornoway	1001·7	-20	ESE	3	roro	56	85	7	5	2	-	7-8	10	2500	1	2
Dalwhinnie	1001·8	-28	S	5	c	53	85	7	5	2	-	4-6	10	2500	1	*
Aberdeen	1003·9	-22	S'E	3	c	58	85	6	5	7	-	Tr	10	800	0	1
Wick	1002·4	-16	SSE	5	c	58	85	7	5	2	-	9	10	1500	0	2
Lerwick	1005·7	+4	SSE	5	c	55	97	6	5	2	-	7-8	10	450	1	*
Blacksod Point	1000·0	-10	SW	5	c	58	97	8	8	–	-	10	10	<150	1	3
Malin Head	999·3	-14	SSW	4	c/r	58	92	7	9	–	-	9+	9+	1500	0	2
Aldergrove	1000·4	-22	S'E	2	roro	57	97	7	5	1	-	1	9+	1500	1	*
Birr Castle	1002·4	-12	S	1	c	62	85	8	8	–	–	7-8	7-8	1500	1	*
Valentia Obsy.†	1005·0	+8	SW	4	c	62	85	8	8	3	–	9	9	1500	1	2
Roches Point	1003·8	+10	NWW	3	bc	67	75	9	3	4	4	2-3	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 9th. (37)	Weather 13h.—18h. 9th. (38)	Weather 18h. 9th. to 1h. 10th. (39)	Weather 1h.—7h. 10th. (40)
London (Kew)	cwbcc	cirocro	circ	ccroiro
Croydon	cbcc	ccidmo	rodmoc	doro
S. Farnborough	cido	cdoiroc	cdoc	roroc
Boscombe Down	cirocoDDm	odododd	cddjddd	drddidiro
Calshot (Soton.)	cidordodo	cddiddd	idoroo	roroDro
Lympne	cbc	comFdo	ffdoc	omomd
Manston	cbcc	cyododm	ocddomw	cidomo
Shoeburyness	cmobcc	ccirc	cirobc	rccr
Felixstowe	bbccy	cyc	ciromo	ocidoc
Gorleston	bcc	cq	cororoc	c
Mildenhall	bccy	cycproc	irmoroc	ccidmo
Cranwell	bbcmoc	erocdo	crorocmo	bbcmocir
Birmingham	bccpro	or	orrir	oc
Upper Heyford	cmocdo	cidoroo	crocir	cdrbcc
Ross-on-Wye	c	cprocroro	ocroocido	orr
Hartland Point	ifdoc	dooc	roroc	croro
Bristol	cdoro	ciroc	crocir	circoc
Portland Bill	cid	cid	oddzo	oR
Plymouth	dodocid	cidocmo	oddocmo	ccircdr
The Lizard	cprif	cifid	effd	cddrr
Scilly (St. Mary's)	idodfdf	odf c	oidomc	iroifrr
Guernsey	off	offdo	ocid	cordf
Pembroke	ofidc	errqm	bccq	rrc
Holyhead	rorododo	mRRo	rorcmoc	cmobc
Chester (Sealand)	cmoc	cidororr	crrmobc	crorpr
Manchester	bemprod	crocrrm	cmorrro	cocroro
Spurn Head	bcc	c	rrcq	cpro
Catterick	bccy	cycmoc	fdodobc	morrRc
Tynemouth	bcc	cpoc	coiro	coir
St. Abbs Head	bcc	ciro	omrrc	cprbc
Leuchars	b, cy	cyciro	roRRrroro	iriRc,b
Renfrew (Abbotsl.)	bcwmobc	rmoiroRR	cmoRRooror	cmoirodbc
Eskdalemuir	bcwc	cirododo	odorrdm	cPRcbcw
Point of Ayre	bcc	ddrr	roroc	ebcc
Tiree	c	omro	orrcid	c
Stornoway	c	croro	crrR	cpr
Dalwhinnie	c	ciR		cRr
Aberdeen	bcmoc	cczo	cRR	rrc
Wick	cmbcc	cmo	crr	rrroc
Lerwick	cir	cbcc	cPRtl	crrmo
Blacksod Point	rr	ir	cbcq	cbcq
Malin Head	c	crorc	cprcprc	c
Aldergrove	cido c	rrmoroio	ciroc	bcc
Birr Castle	ciro	irorrc	c	cpr
Valentia Obsy.†	rr roro	roroc	cprpro	bcprb
Roches Point	id rr	rrcbc	bcw	bcw

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.

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.*

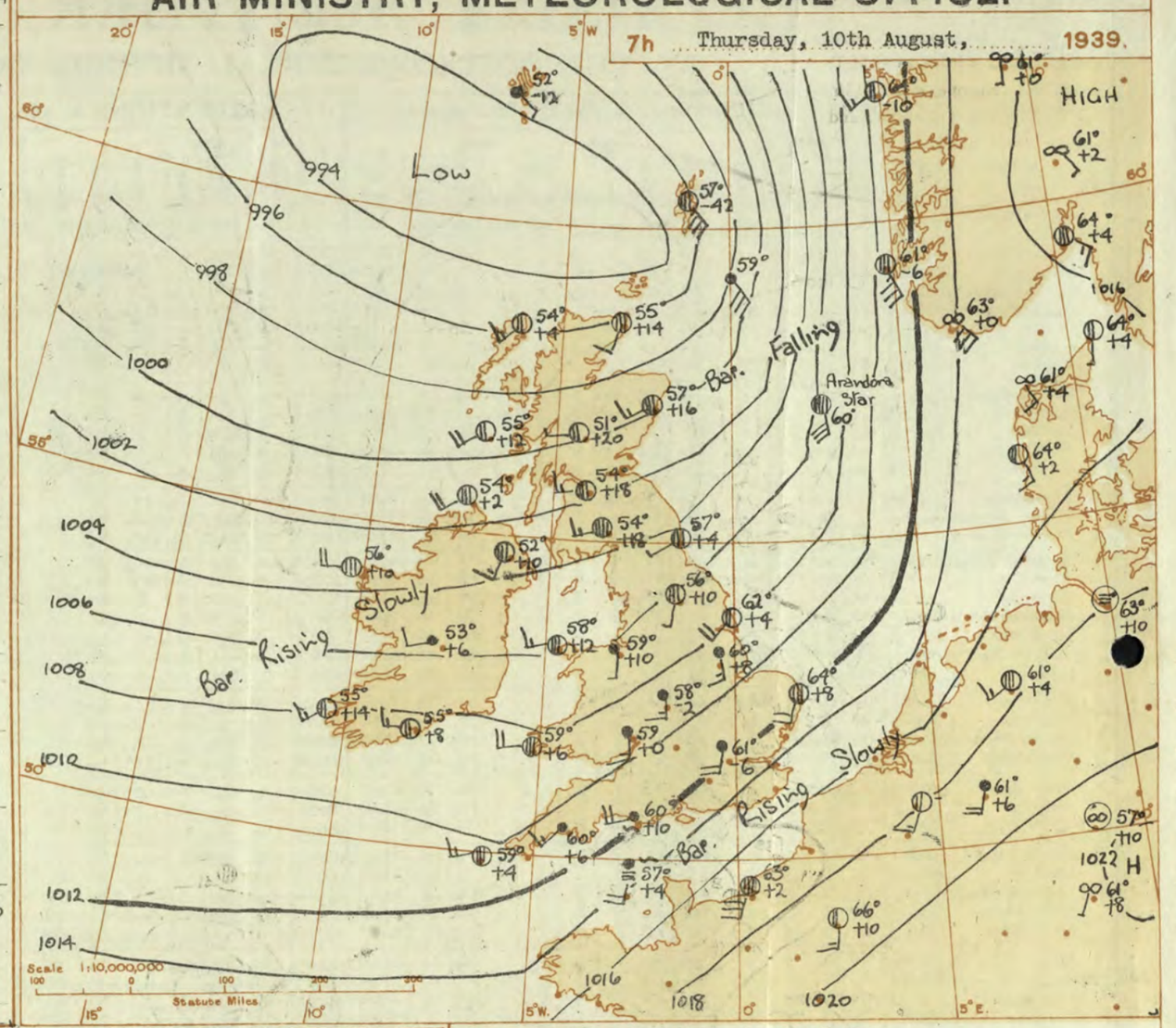
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 9th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 8th to 9h. 9th	Temperature. (°F) Max. 9h.—17h. 9th	Rainfall. (mm.) Night. 17h. 8th to 9h. 9th	Rainfall. (mm.) Day. 9h.—17h. 9th	Sunshine. (Hrs.) Sunrise to 17h. 9th	Sunshine. (Hrs.) Sunrise to Sunset. 8th
1	Tunbridge W.	bcc	codo	48	65	–	Trace	2·6	6·1
	Bournemouth	od	odr	53	64	–	0·3	0·2	1·7
	Ventnor ...	cbco	odof	55	63	–	Trace	1·2	2·2
	Southsea ...	co	odo	55	64	–	Trace	1·4	2·1
	Bognor Regis	bcc	cido	53	63	–	0·3	1·5	4·6
	Littlehampton	bcc	copo	52	63	–	0·2	1·6	5·5
	Worthing ...	bcco	oido	52	65	–	Trace	1·6	5·8
	Brighton ...	bcc	cdc	54	64	–	Trace	1·3	6·6
	Eastbourne† ...	c	cod.	56	66	–	Trace	2·1	6·4
	Hastings† ...	bcbc	codo	57	65	–	0·3	3·7	6·3
	Folkestone ...	cbcc	codm.	53	67	–	0·3	5·1	7·8
	Dover ...	bc	bcod	55	67	–	Trace	5·6	9·0
	Deal	bbcb	bccod	54	68	–	Trace	6·5	8·3
	Ramsgate ...	bc	c	55	67	Trace	Trace	5·5	6·0
	Margate ...	bc	bcc	56	68	1	–	5·3	7·0
2	Southend ...	cbbc	cp.o	54	71	3	Trace	4·5	3·7
	Clacton-on-Sea	bc	bcc	54	69	4	–	7·8	5·0
	Dovercourt ...	roc	bc	54	69	1	–	9·2	7·6
	Lowestoft ...	b	bbc	55	70	–	–	10·3	6·9
	Skegness ...	b	bco	50	69	2	–	5·3	5·0
	Mablethorpe...	bbc	bcco	51	70	2	–	5·7	6·4
	Cleethorpes ...	bc	bcc	52	70	5	–	6·3	8·1
3	Leamington S.	co	or.	51	65	–	Trace	0·8	2·3
4	Cheltenham†	ocp.	coor	53	67	Trace	1	0·4	4·3
5	Bath	cp.	cbcc	53	69	Trace	0·3	0·9	5·6
	Weymouth ...	cb	dccd	58	66	0·2	0·4	0·0	3·8
	Jersey ...	dcd	dc	58	64	0·3	0·5	0·0	2·6
	Torquay ...	odp.	oco	53	66	Trace	Trace	0·0	6·3
	Falmouth ...	ovcor	omrdo	54	65	0·6	0·1	0·3	8·4
	Penzance ...	pccr	rcqe	56	66	3	0·5	0·1	10·1
	St. Ives ...	c	p	56	66	1	1	0·2	9·2
	Bude... ...	odo	odo	55	64	1	0·2	0·0	8·1
	Ilfracombe ...	cod	dodo	56	65	3	1	0·3	7·8
6	Aberystwyth	cd.c	bccrr	55	65	Trace	3	1·4	*
7	Llandudno ...	p.c	cbccr	51	67	Trace	1	1·2	4·7
	Colwyn Bay...	c	cr	51	67	–	0·3	1·4	3·1
	Rhyl	r.c	cor.	48	68	Trace	Trace	0·7	4·6
8	Wallasey ...	c	cpor	54	66	Trace	0·3	1·7	4·2
	Southport ...	bbcco	p.cor.	51	63	1	0·3	3·6	1·6
	Blackpool ...	bcc	cpor	54	66	–	0·5	4·2	1·3
	Morecambe ...	bcc	cdr	57	67	Trace	0·3	3·2	2·5
9	Ilkley... ...	bco	co	53	70	Trace	–	5·2	3·7
	Harrogate ...	bbc	c	53	67	–	–	5·0	5·6
10	Berwick-on-T.	bcc	co	55	63	0·1	–	2·3	1·9
11	Dunbar ...	bc	cpr.	52	67	–	Trace	4·4	2·1
12	Troon... ...	bccoc	cocr	51	62	–	0·3	2·3	3·0
	Douglas ...	cmr	cmr	49	58	–	5	1·6	0·8

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.

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. 10th August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	**Wind** southwest, moderate; mainly cloudy with occasional drizzle and fog on the coasts; average temperature.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind southwest to west, moderate or fresh; local showers; but bright intervals; average temperature.

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

GENERAL INFERENCE.

A depression to the north of Scotland has a trough extending along the North Sea and the English Channel. The weather will remain generally unsettled but in the North there will be brighter intervals.

FURTHER OUTLOOK.

Unsettled.

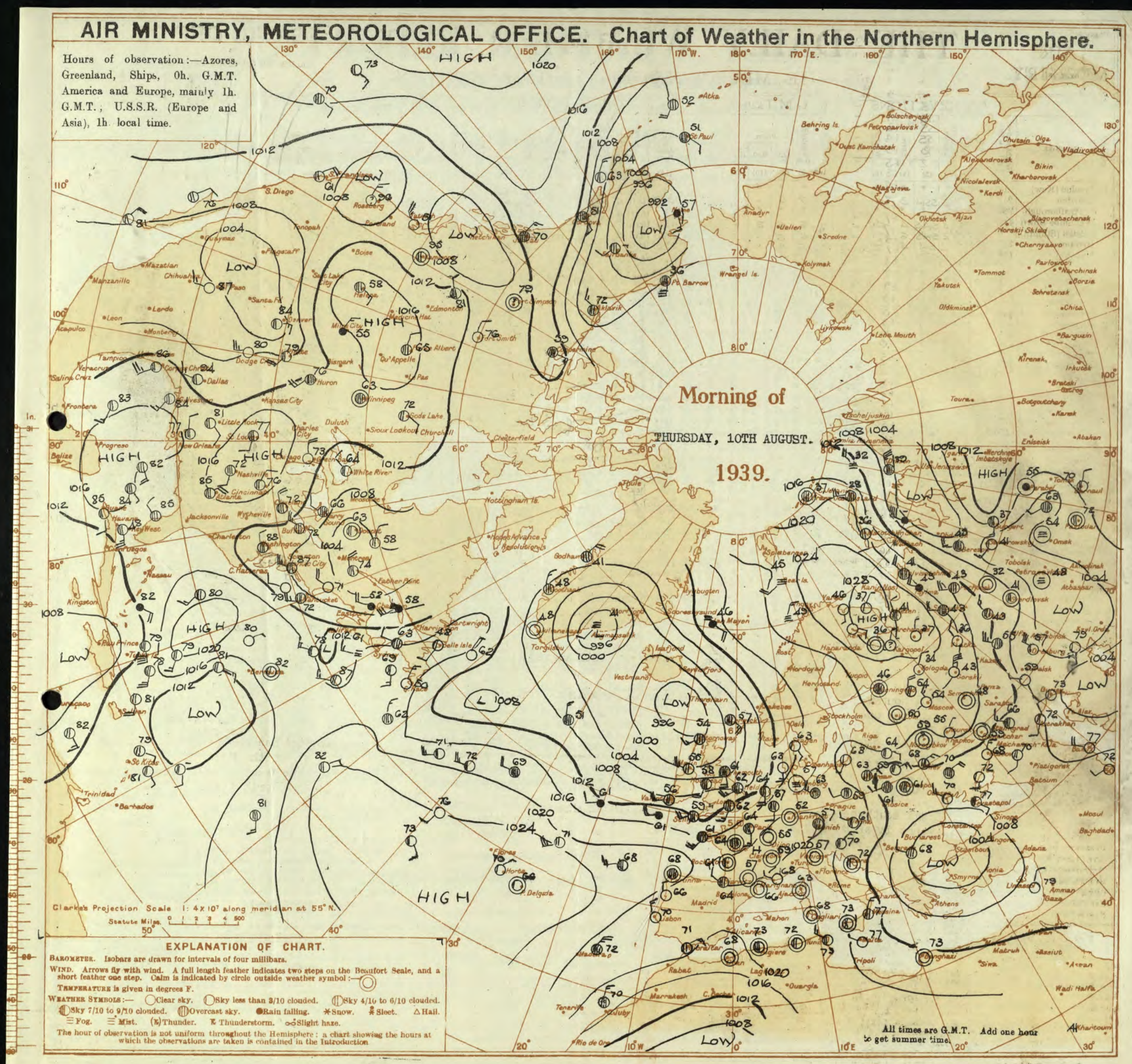
Time of Issue of Gale Warnings.

South Cone hoisted at 2400 hr. on 10/8/39 in district 16.

Forecasts issued at 0930 G.M.T

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

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

Thursday, 10th August, 1939.
No. 28385.

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

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	-2	SSW	3	c	62	85	7	5	-	-	9	9+	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1010.8	-4	SW'S	4	dr	60	97	6	6	2	-	7-8	10	450
	Calshot (Sthmtn.)	8	1012.3	-2	SW'S	6	r̊r̊	62	97	6	5	-	-	10	10	450
	Lympne	346	1014.0	+2	SW	4	z̊	62	97	6	5	-	-	10	10	220
	Manston	154	1013.0	+2	SW'S	4	c	62	92	7	5	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1010.6	-4	SSW	4	c	62	92	7	5	-	-	10	10	2500
	Mildenhall	19	1009.6	-2	SSW	5	c	63	85	7	5	-	-	10	10	2500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1008.9	+8	SW	6	c	60	97	8	8	2	-	7-8	10	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1011.2	-4	WSW	5	dd	59	92	6	5	-	-	10	10	1500
	Plymouth	82	1011.2	+2	WSW	4	c/d	61	97	6	6	2	-	9	10	220
	The Lizard	240	1011.6	0	SW	4	df	60	97	3	5	-	-	10	10	800
	Scilly (St. Mary's)	163	1011.0	+2	WSW	4	c	59	97	7	8	6	-	4-6	7-8	1500
	Guernsey	175	1014.4	-4	SW	5	c	60	92	7	8	-	-	10	10	1500
6	Pembroke	142	1007.5	+6	W'S	5	cq	60	92	7	5	-	-	7-8	7-8	2500
7	Holyhead	26	1004.0	+10	SSW	4	c	58	97	6	5	2	-	2-3	10	450
	Chester (Sealand)	16	1005.6	+24	S	2	c	61	75	8	5	-	-	9	9	2500
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1005.2	-10	SW	5	c	62	92	7	5	8	-	4-6	7-8	2500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1001.5	-4	S	4	o/r	61	92	6	-	2	-	10	10	1500
11	St. Abbs Head	280	999.8	-6	SW	4	c	57	85	8	8	6	-	4-6	7-8	2500
	Leuchars	36	999.1	-12	SE	2	c	57	92	7	8	8	-	7-8	9+	1500
12	Renfrew (Abbots I.)	19	1000.2	+2	SW'W	3	o/r	57	92	6	5	-	-	10	10	800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1002.0	+10	WSW	3	c	58	97	8	8	-	-	9+	9+	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	996.9	-4	WSW	3	c	54	92	8	8	7	-	7-8	9	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	997.0	-28	SE	5	rr	56	97	6	5	2	-	9	10	800
16	Lerwick	156	1001.9	-30	SE	5	c	57	92	7	8	2	-	7-8	10	1500
17	Blacksod Point	18	1002.0	+4	W	4	bc	55	85	8	8	-	-	4-6	4-6	800
18	Malin Head	84	999.8	+10	W	5	bc	55	85	8	2	-	-	4-6	4-6	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1006.2	+6	WSW	4	bc	56	92	7	5	-	-	2-3	2-3	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 10th August — 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)	Temp. Max. Day 7h–18h °F. (31)	Temp. Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 9th. Hrs. (36)
London (Kew)	1011.5	+2	SW'S	4	ic	62	92	7	5	-	-	10	10	1500	1	*	64	61	60	Tr	0.2	2.1
Croydon	1011.6	-6	SW	4	dd	61	97	7	5	3	-	9+	10	800	1	*	66	60	59	Tr	0.5	1.5
S. Farnborough	1011.2	+2	SW	3	id	61	92	8	6	2	-	9	10	800	1	*	63	60	59	Tr	0.6	1.3
Boscombe Down	1010.7	+2	SW	4	c/r	60	97	6	5	3	-	7-8	9+	450	1	*	63	58	56	0.3	2	0.5
Calshot (Sthmtn.)	1011.9	+2	SW'S	6	dd	61	97	6	6	2	-	9	10	450	1	3	65	61	60	0.5	3	0.5
Lympne	1014.1	+2	SW	5	id	60	97	5	5	-	-	10	10	220	0	§3	65	59	59	0.4	Tr	4.5
Manston	1013.1	+6	SSW	5	id	62	85	6	5	2	-	9	10	800	1	*	69	60	57	Tr	Tr	5.4
Shoeburyness	1012.2	+4	SW	4	c/r	63	92	7	5	-	-	10	10	800	1	*	70	62	60	Tr	0.1	4.5
Felixstowe	1011.9	+2	SW	5	c	63	92	7	5	3	-	9	9+	800	0	3	72	62	61	-	0.6	9.9
Gorleston	1011.2	+8	SSW	4	c	64	85	6	5	-	-	9+	9+	2500	1	3	71	62	61	-	0.4	9.5
Mildenhall	1010.1	+4	SSW	4	cd	64	85	7	5	7	-	9	9+	1500	1	*	70	60	60	Tr	1	6.2
Cranwell	1008.4	+8	S	3	ic	60	92	8	5	3	-	7-8	9	2500	1	*	68	57	55	Tr	1	6.1
Birmingham	1008.4	+2	S	3	ir	58	92	6	6	7	-	7-8	10	800	1	*	63	57	54	1	2	2.1
Upper Heyford	1010.3	+2	SSW	3	c	60	92	7	5	7	-	4-6	9+	5700	1	*	63	57	53	0.3	1	*
Ross-on-Wye	1010.0	0	S	3	rr	59	92	7	6	-	-	10	10	1500	1	*	66	58	55	0.1	1	0.1
Hartland Point	1008.7	-4	W	5	r̊r̊	60	97	7	6	2	-	7-8	10	1500	1	3	63	59	57	1	3	0.0
Bristol	1010.2	0	SSW	3	ic	60	92	8	6	7	-	7-8	10	1500	1	*	68	58	52	0.3	1	0.8
Portland Bill	1011.0	+10	WSW	4	rr	60	92	7	5	-	-	10	10	1500	1	4	61	57	*	0.4	2	*
Plymouth	1011.1	+6	SW	3	dr	60	97	5	6	2	-	9+	10	220	1	2	62	59	57	2	1	0.0
The Lizard	1010.5	-2	SSW	4	rf	60	97	3	5	-	-	10	10	450	1	3	63	58	*	0.2	6	0.2
Scilly (St. Mary's)	1010.6	+4	W'S	4	c/r	59	97	8	8	2	-	9	10	1500	1	3	63	58	*	0.1	6	0.6
Guernsey	1014.0	+4	S'W	4	dF	57	97	1	-	-	-	10	10	4150	1	4	62	59	58	1	2	0.0
Pembroke	1008.2	+6	W'S	4	c/r	59	92	7	5	7	-	7-8	9+	2500	1	2	61	56	*	8	5	0.0
Holyhead	1005.6	+12	WSW	3	c	58	92	8	8	4	-	4-6	7-8	2500	1	2	60	55	52	9	2	0.0
Chester (Sealand)	1006.2	+10	S'W	1	pr	59	85	8	8	2	-	7-8	9+	1500	1	*	67	59	54	1	2	1.4
Manchester	1006.2	+14	S'W	4	r̊c̊	58	92	6	6	2	-	4-6	10	1500	1	*	65	52	52	1	4	1.9
Spurn Head	1007.1	+4	SW'S	4	c/pr	62	85	7	6	8	-	4-6	7-8	800	1	3	73	58	*	-	1	6.3
Catterick	1004.8	+10	SSW	1	c/r	56	97	8	6	7	-	7-8	9	800	1	*	67	55	50	-	5	3.6
Tynemouth	1003.3	+4	SW	1	c/r	57	92	5	8	4	1	4-6	7-8	1500	1	1	65	57	53	Tr	4	3.9
St. Abbs Head	1001.6	+20	WSW	3	bc/ir	56	85	8	8	6	9	4-6	4-6	2500	1	2	63	54	*	Tr	10	*
Leuchars	1000.7	+18	SW	4	bc	55	85	8	8	4	-	Tr	2-3	2500	1	*	66	53	51	Tr	8	4.6
Renfrew (Abbots I.)	1001.9	+18	SW'W	3	bc	56	85	7	8	5	4	2-3	4-6	1500	1	*	64	53	48	4	4	2.6
Eskdalemuir	1002.2	+18	WSW	3	c	54	85	7	5	4	6	4-6	7-8	800	1	*	63	53	50	0.4	14	4.9
Point of Ayre	1004.2	+16	W	4	c	57	85	8	2	-	9	1	7-8	1500	1	3	61	53	*	4	1	2.3
Tiree	999.2	+12	SW	4	bc	55	85	8	8	3	2	2-3	4-6	2500	0	3	59	53	48	5	3	0.7
Stornoway	997.3	+4	SW	3	bc/pr	54	85	8	5	7	-	4-6	4-6	4000	1	2	60	52	*	0.2	7	2.5
Dalwhinnie	1000.0	+20	W	5	bc	51	85	8	5	6	-	4-6	4-6	2500	1	*	59	49	46	2	8	1.8
Aberdeen	999.5	+16	SW'S	3	c	57	85	8	5	7	-	2-3	7-8	1500	1	1	63	56	51	-	13	4.3
Wick	996.6	+14	SSW	2	cjp	55	92	7	5	7	8	7-8	10	1500	1	2	61	55	*	-	9	*
Lerwick	994.0	-42	SE	7	c/r	57	97	6	8	2	-	7-8	10	450	1	*	59	55	*	1	26	1.3
Blacksod Point	1003.1	+10	W	4	c	56	92	8	8	-	-	7-8	7-8	1500	0	3	60	53	*	4	-	*
Malin Head	1001.5	+2	SW	4	c	54	85	8	2	-	4	4-6	9	4000	0	2	69	51	*	3	7	0.8
Aldergrove	1003.2	+10	SSW	3	c	52	92	7	5	-	2	4-6	7-8	800	1	*	60	49	46	7	1	1.1
Birr Castle	1005.3	+6	WSW	2	pr	53	97	7	8	7	-	7-8	9	1500	1	*	65	51	46	9	1	1.3
Valentia Obsy. †	1008.4	+14	SW	3	bc	53	85	8	8	3	-	2-3	2-3	1500	1	2	63	53	50	12	4	1.1
Roches Point	1007.9	+8	W	3	bc	55	97	8	8	-	-	4-6	4-6	2500	1	2	67	53	*	9	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	cwbcc	circr	circcir	64	61	60	Tr	0.2	2.1	·	·	7
Croydon	217	cbcc	rcid m	rd m rc	66	60	59	Tr	0.5	1.5	·	·	6
Greenwich (Royal Observatory)	149	cbcc	cr	rcid	69	60	59	Tr	0.5	1.7	76	89	7
City (Bunhill Row)	—	·	·	··	·	·	·	·	·	*	·	·	·
Westminster (St. James' Park)	27	·	·	·	67	59	60	0.5		2.1	79	89	·
Regents Pk. (Botanic Gardens)‡	168	·	·	·	67	58	58	-	1	1.9	60	89	·
Camden Square	110	bc	c	·	67	60	60	-	0.5	*	·	91	·
Kensington	80	c	cp	·	67	59	60	Tr	0.4	1.9	At 18h 87	90	·
Hampstead Observatory	450	bc	bcor	or	65	59	57	0.2	0.3	2.2	·	93	·

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 10th.

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
<0.3 whole period			

KEW OBSERVATORY.

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

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 9th August Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 10th August 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	1017.8	NW	3	c	68	1018.7	S	3	c	66	72	61	-	Tr
Brussels	1016.3	SW	3	c	64	*	SSW	3	o	*	70	*	0.3	*
Berlin	1014.7	WNW	3	r̊r̊	63	1018.2	NNW	2	z̊	64	66	61	8	0.2
Zurich	1018.3	SW	1	bc	66	1021.2	SE	1	z̊	59	75	55	-	-
Rome	1013.9	SW'W	3	b	75	1016.5	ENE	2	z̊	70	81	61	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Friday, 11th August, 1939.
No. 28386.
D.L.J.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	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)...	1011·0	−2	SW'S	4	o/d	64	92	8	5	–	–	10	10	800
	Croydon ...	1011·6	−6	SSW	4	Dr	64	92	6	6	2	–	7-8	10	800
	S. Farnborough	1011·5	+2	SSW	5	d.d.	63	92	7	6	2	–	9	10	800
	Boscombe Down	1011·4	+2	W'S	4	c	66	75	8	2	3	–	2-3	9+	1500
	Calshot (Soton.)	1012·3	+2	SW	5	bc/d	66	92	7	5	4	–	4-6	4-6	800
	Lympne ...	1014·2	−2	SW	5	c/d	62	92	6	5	–	–	10	10	450
	Manston ...	1013·2	−2	SSW	6	id.	65	85	6	5	2	–	9+	10	450
2	Shoeburyness ...	1012·0	+4	SW	5	c/r	67	85	8	5	7	–	7-8	9+	800
	Felixstowe ...	1011·8	−2	SSW	6	iro	67	85	8	6	–	–	10	10	800
	Gorleston ...	1010·2	−4	SSW	5	c/pr	66	85	6	8	–	–	10	10	2500
	Mildenhall ...	1008·9	−2	SW	3	roro	62	92	7	6	7	–	4-6	9+	1500
	Cranwell ...	1008·9	+6	SW	4	pr	58	85	7	8	3	–	9	9	2500
3	Birmingham ...	1009·5	+2	SW	3	c/pr	60	75	8	8	7	–	7-8	9+	1500
	Upper Heyford	1010·7	+2	W	4	c/r	61	92	9	9	7	–	7-8	9+	450
4	Ross-on-Wye ...	1010·2	+6	W'S	4	bc	60	55	8	8	5	–	2-3	4-6	2500
5	Hartland Point	1011·3	+12	W	4	bc	60	92	8	8	6	–	2-3	4-6	1500
	Bristol ...	1011·9	+14	W'S	5	c	63	75	8	8	4	–	4-6	7-8	1500
	Portland Bill ...	1012·9	+16	WSW	5	c	61	92	8	5	7	–	7-8	10	2500
	Plymouth ...	1013·0	+16	WSW	4	iro	61	92	6	6	2	–	7-8	10	800
	The Lizard ...	1014·0	+14	SWW	3	rr	57	97	7	5	–	–	10	10	1500
	Scilly (St. Mary's)	1013·4	+12	SWW	3	iro	59	97	8	8	2	–	4-6	10	1500
	Guernsey ...	1015·3	+2	WSW	5	c	63	92	6	5	2	–	9	10	450
6	Pembroke ...	1010·7	+6	W'S	4	bcq	61	85	8	2	–	–	4-6	4-6	2500
7	Holyhead ...	1007·8	+8	SW'S	4	pr	60	85	9	2	4	3	4-6	7-8	1500
	Chester (Sealand)	1008·0	+6	WSW	4	c	65	55	9	8	7	–	4-6	7-8	2500
8	Manchester ...	1007·8	+6	W'S	3	c/pr	62	75	8	2	3	–	2-3	7-8	2500
10	Spurn Head ...	1007·8	0	SW	4	pr	60	85	7	5	–	–	7-8	7-8	800
	Catterick ...	1005·6	+2	SWW	3	c	63	65	8	8	3	–	4-6	7-8	2500
	Tynemouth ...	1004·8	+4	SW	3	bc/pr	63	65	6	2	–	–	4-6	4-6	1500
11	St. Abbs Head...	1003·3	+6	W	3	c	59	65	9	8	2	–	4-6	7-8	2500
	Leuchars ...	1002·6	+4	WSW	4	c	61	65	8	8	7	6	7-8	9+	1500
12	Renfrew (AbbotsI.)	1003·6	+6	SW	3	c/pr	60	75	8	8	7	–	4-6	10	1500
	Eskdalemuir ...	1004·6	+8	SWW	3	ir	54	75	8	6	2	–	7-8	10	1500
	Point of Ayre ...	1005·8	+4	W	5	c	63	75	8	1	–	9	7-8	9	2500
13A	Tiree ...	1002·1	+10	SWW	4	bc/pr	60	75	8	8	6	6	4-6	4-6	1500
13B	Stornoway ...	998·9	+8	SSW	4	PR	57	85	8	8	–	–	7-8	7-8	2500
15	Dalwhinnie ...	*	+10	W	3	c	51	65	8	4	1	–	7-8	10	2500
	Aberdeen ...	1001·2	+6	SW'S	3	cjp	66	55	8	8	–	3	4-6	7-8	2500
	Wick ...	1000·1	+12	S	3	c	59	85	8	8	7	8	4-6	7-8	1500
16	Lerwick...	999·6	+14	SW	5	c	58	85	8	8	7	–	7-8	9	1500
17	Blacksod Point...	1006·6	+12	W	5	c	60	75	8	3	–	4	4-6	7-8	800
18	Malin Head ...	1003·8	+10	W	5	c/pr	59	75	8	2	–	8	4-6	7-8	4000
	Aldergrove ...	1005·6	+14	WSW	1	c/pr	54	85	8	3	–	–	9+	9+	1500
19	Birr Castle ...	1008·3	+6	W	3	c/pr	61	65	8	3	7	–	4-6	9	800
20	Valentia Obsy.	1011·1	+12	W	4	bc	61	75	9	8	–	–	2-3	2-3	2500
	Roches Point ...	1010·1	+10	WN	3	bc	63	65	9	3	–	3	4-6	4-6	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1013·4	+12	WSW	2	roro	63	92	6	5	–	–	10	10	1500	1	*
Croydon	1013·4	+12	SSW	3	Iro	62	85	7	9	2	–	4-6	10	1500	1	*
S. Farnborough	1013·6	+10	SW'S	4	rr	61	92	8	5	2	–	4-6	10	1500	1	*
Boscombe Down	1013·8	+10	WSW	2	iro	60	85	8	8	7	–	4-6	9	1500	1	*
Calshot (Soton.)	1014·3	+8	SW	3	roro	59	92	7	6	2	–	7-8	10	800	1	3
Lympne	1015·1	+8	WSW	3	c	63	85	7	5	7	–	1	9	1500	1	§ 4
Manston	1014·0	+6	SWS	5	c	65	85	7	5	7	–	4-6	9	4000	1	*
Shoeburyness	1013·3	+10	SSW	4	iro	65	85	8	6	2	–	2-3	10	1500	1	*
Felixstowe	1012·2	+4	WSW	5	roro	66	85	7	5	7	–	4-6	10	1500	1	3
Gorleston	1011·2	+12	SSW	4	c	63	85	7	8	2	–	4-6	7-8	2500	1	3
Mildenhall	1011·4	+14	SW'S	5	bc	65	65	9	8	7	–	4-6	4-6	4000	1	*
Cranwell	1010·2	+12	W'N	4	bc	65	55	8	8	–	–	2-3	2-3	2500	1	*
Birmingham	1011·5	+16	WSW	3	bc	63	55	8	8	–	–	4-6	4-6	2500	1	*
Upper Heyford	1012·3	+12	W	4	bc	64	65	8	8	3	9	Tr	2-3	2500	1	*
Ross-on-Wye	1012·0	+14	SW	4	bcq	64	55	8	8	–	–	2-3	2-3	2500	1	*
Hartland Point	1012·8	+6	W	4	bc	62	85	8	6	4	–	4-6	4-6	1500	0	3
Bristol	1013·0	+6	W'S	4	bc	63	65	9	8	–	–	2-3	2-3	4000	1	*
Portland Bill	1014·0	+4	WSW	4	RR	60	92	6	5	–	–	10	10	1500	2	4
Plymouth	1013·8	+2	SW	2	c/r	58	97	7	6	7	–	4-6	9+	1500	1	2
The Lizard	1014·3	+6	–	0	c	58	97	8	8	2	–	9	10	1500	1	1
Scilly (St. Mary's)	1014·2	+6	W'S	2	c	60	95	8	8	6	–	2-3	7-8	2500	1	2
Guernsey	1014·7	−2	SSW	5	dd	63	97	5	5	–	–	10	10	450	1	4
Pembroke	1012·4	+14	W'N	4	b	60	75	8	7	1	–	Tr	1	4000	1	2
Holyhead	1010·2	+16	SW'S	4	c/pr	58	85	9	2	8	–	4-6	7-8	2500	1	2
Chester (Sealand)	1010·6	+16	WSW	3	bc	62	65	9	2	–	–	4-6	4-6	2500	1	*
Manchester	1009·9	+14	WSW	3	c/tlr	59	75	8	3	4	–	4-6	4-6	1500	1	*
Spurn Head	1009·3	+8	WNW	4	bc	63	75	6	9	8	–	4-6	4-6	1500	1	3
Catterick	1008·3	+14	WSW	3	c	60	65	8	8	3	2	4-6	7-8	2500	1	*
Tynemouth	1007·0	+12	W	3	c	59	75	7	2	–	–	7-8	7-8	1500	1	1
St. Abbs Head	1004·7	+12	SW	4	c/pr	56	85	9	8	6	–	4-6	7-8	2500	0	2
Leuchars	1003·9	+10	SW	3	c	59	85	9	8	–	6	2-3	9	2500	1	*
Renfrew (AbbotsI.)	1006·0	+14	W	3	c/pr	57	75	8	2	6	3	7-8	7-8	1500	1	*
Eskdalemuir	1006·3	+14	SW	4	pr	54	75	9	9	–	3	4-6	4-6	1500	1	*
Point of Ayre	1008·1	+12	W	5	bc	60	65	8	4	6	–	2-3	4-6	2500	0	3
Tiree	1003·6	+6	SW	4	bc	57	75	8	8	–	6	2-3	4-6	2500	0	3
Stornoway	1000·9	+6	SW	4	c	58	75	8	8	4	6	7-8	9	2500	1	2
Dalwhinnie	*	+14	W	3	c	57	75	8	4	6	2	4-6	7-8	2500	0	*
Aberdeen	1002·7	+10	WSW	2	c/pr	59	65	8	8	–	3	7-8	9	2500	1	1
Wick	1001·6	+16	NNW	3	c/pr	55	85	8	5	7	8	4-6	9+	1500	1	1
Lerwick	1000·9	+4	S	4	c	55	85	8	8	7	–	4-6	9	1500	1	*
Blacksod Point	1008·4	+10	W	4	bc	59	75	8	3	–	–	4-6	4-6	1500	1	3
Malin Head	1005·7	+8	W	5	bc	58	75	8	2	–	3	4-6	4-6	4000	0	2
Aldergrove	1007·8	+20	WSW	3	cjp	58	75	9	3	–	3	7-8	7-8	2500	1	*
Birr Castle	1010·1	+14	W	4	c	61	65	8	2	3	–	4-6	7-8	1500	1	*
Valentia Obsy.	1012·7	+8	W'S	4	bc	60	75	9	2	3	–	1	2-3	2500	1	2
Roches Point	1012·0	+14	NWW	3	bc	63	65	9	3	4	–	2-3	2-3	2500	1	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 10th. (37)	Weather 13h.—18h. 10th. (38)	Weather 18h. 10th to 1h. 11th. (39)	Weather 1h.—7h. 11th. (40)
London (Kew)	croidodc	cirom.	crorcbc	bcoffe
Croydon	dododdrmo	rdprororo	irorocbc	bccbc
S. Farnborough	do,rorc	croPRro	rocb	bmofeb
Boscombe Down	ororoDrm	ciro	cirobcbf	Ffbmow
Calshot (Soton.)	odrodrm	bcidroro	roroidb	bomoF
Lympne	cmodd	cmoiroid	rororrfd.	ffomoq
Manston	cidom.	cidomoc	croro	ciroc
Shoeburyness	ciroc	bciroc	cirocrrc	bcc
Felixstowe	coidopr	cidororo	crorob	bcmow
Gorleston	cpro	oirorrc	cbcbw	bbcw
Mildenhall	croro	croroprc	bcvb	bwbcb
Cranwell	cidror	cprbcby	bybmo	bwbbcm
Birmingham	orrpro	cbccPR	bc	bcw
Upper Heyford	croro iroiR	cbc	bbw	bwbfof
Ross-on-Wye	orrRRcroroc	bcq	bcqbcb	bbc
Hartland Point	probc	bccbc	bc	bcc
Bristol	crodrrobc	bc	bcb	bbcw
Portland Bill	OR	ORzo		bcc
Plymouth	RRrocro	croromo	cbbcw	bcfcpr
The Lizard	prrr	prrrc	cbcbw	bc
Scilly (St. Mary's)	croiro	ciroc	cbcbw	bbcc
Guernsey	c	cid dd	odfdd	cbcc
Pembroke	cirbcq	bcb	b	bbcc
Holyhead	bccpro	cprovb	ccb	bc
Chester (Sealand)	cproy	cyprbc	bcbprPRb	bbcm,bcw
Manchester	RRPRqpr	cPRqtlrbc	bmopm	bmprbcm
Spurn Head	Rrc	cPRtc	bcbw	bbcw
Catterick	bc	cprobc	probcb	bprobc
Tynemouth	cbcp	bccpc	cpobc	bc
St. Abbs Head	irc	pro c	bcb	bbcc
Leuchars	b,cproc	cpro c	bbcw	bcbcw
Renfrew (AbbotsI.)	bccprpro	cprpropr	bcprobcc	cproprcpr
Eskdalemuir	cPR ir	rrtlbc	bceprobc	bcprocw
Point of Ayre	c	cpro	bcbw	c
Tiree	bcpro	bcp	bcprc	cbc
Stornoway	cPR	cPR	cPR	cPR
Dalwhinnie	ciro	cbc	•	cir
Aberdeen	cbccy	cpro	cPRbcbw	bwbc
Wick	cpro c	cprc	clbc	bc
Lerwick	cpr	cpr	c	cbc
Blacksod Point	prcq	prcq	bc	prcq
Malin Head	cbcc	cpobc	bccPRc	cPRc
Aldergrove	c,PRqt	ccjp	jpcb	bbcc
Birr Castle	cpr	cprc	cbc	bcpr
Valentia Obsy.	probc	pro bc	cprobc	bc
Roches Point	probc	probc	bcbw	bwbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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.

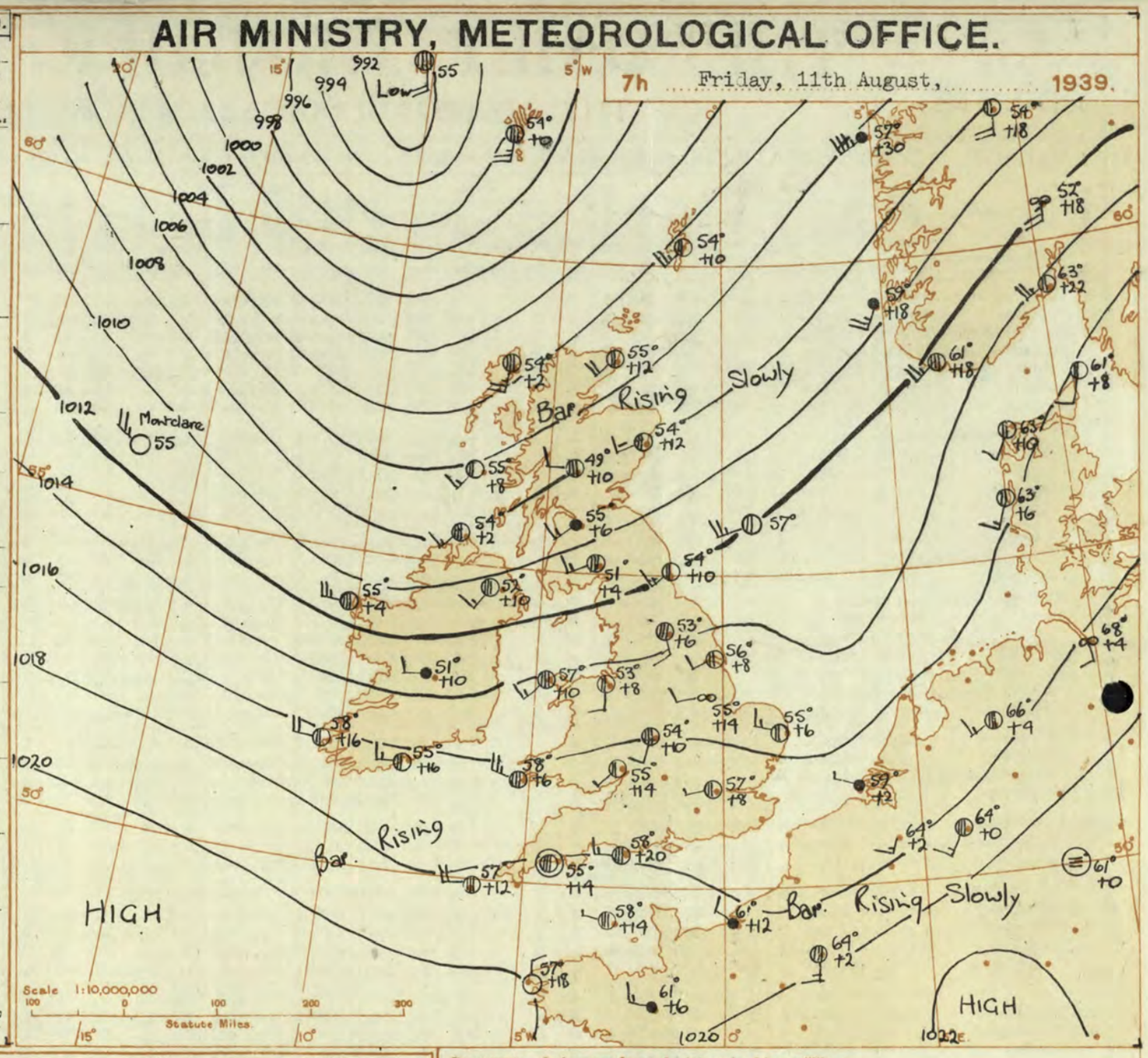
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 10th August 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 9th to 9h. 10th	Temperature. (°F) Max. 9h.—17h. 10th	Rainfall. (mm.) Night. 17h. 9th to 9h. 10th	Rainfall. (mm.) Day. 9h.—17h. 10th	Sunshine. (Hrs.) Sunrise to 17h. 10th	Sunshine. (Hrs.) Sunrise to Sunset. 9th
1	Tunbridge W.	odor	odco	59	67	2	2	0·7	2·6
	Bournemouth	r	bcodr	59	67	2	5	0·8	0·2
	Ventnor ...	orfo	cor	59	63	2	2	0·2	1·2
	Southsea ...	oro	cor	60	65	3	1	0·3	1·4
	Bognor Regis	oc	bcoid	59	64	3	0·5	0·4	1·5
	Littlehampton	ocirc	cbcod	59	65	3	1	0·9	1·6
	Worthing ...	ojd	odbcro	59	65	4	1	0·6	1·6
	Brighton ...	cdc	cd	60	64	0·5	0·2	0·5	1·3
	Eastbourne† ...	od.o	oc	61	65	1	0·1	1·0	2·1
	Hastings† ...	ood.	docbc	60	67	1	Trace	1·0	3·7
	Folkestone ...	m.oid	oidoc	60	64	0·3	0·5	0·2	5·1
	Dover ...	odo	odcbc	60	65	0·3	1	0·1	5·6
	Deal	dd	bcdoc	60	67	0·5	1	0·9	6·5
	Ramsgate ...	od	dcbc	61	66	0·1	Trace	0·3	5·5
	Margate ...	cd.	c	60	68	–	Trace	0·3	5·3
2	Southend ...	o	opco	60	65	Trace	Trace	0·5	4·5
	Clacton-on-Sea	oc	cir.c	62	67	1	Trace	0·1	7·8
	Dovercourt ...	thoc	roc	59	67	0·5	Trace	0·2	9·2
	Lowestoft ...	cep.	coRo	60	67	0·4	8	0·7	10·3
	Skegness ...	pcor	orpcb	60	68	1	6	3·0	*
	Mablethorpe...	bcor	orbbcy	59	67	1	4	3·2	5·7
	Cleethorpes ...	bifir	cbc	57	66	1	6	3·5	6·3
3	Leamington S.	roc	bc	58	69	5	1	4·0	0·8
4	Cheltenham†	orroc	bcby	58	69	2	4	5·1	0·4
5	Bath	rcbc	cbc	59	66	1	1	1·5	0·9
	Weymouth ...	dcb	crr	58	66	1	6	1·2	0·0
	Jersey ...	c	bcc	59	68	–	–	1·7	0·0
	Torquay ...	orpbc	or.orc	60	67	3	2	1·3	0·0
	Falmouth ...	odgcr	orrc	60	63	7	1	0·8	0·3
	Penzance ...	rc cid	cidc	59	64	8	1	0·5	0·1
	St. Ives ...	c	p	59	65	4	1	0·5	0·2
	Bude... ...	rocbc	bc	59	63	3	–	3·5	0·0
	Ilfracombe ...	orr	rocbc	57	65	13	0·6	6·6	0·3
6	Aberystwyth	prcbcd	bcc	58	63	8	–	6·8	1·4
7	Llandudno ...	bc	bcb	58	64	2	–	8·9	1·2
	Colwyn Bay...	bcb	bcb	58	65	1	–	7·2	1·4
	Rhyl	cbc	bccb	58	65	1	–	5·5	0·7
8	Wallasey ...	ptcbc	pcbc	58	64	6	3	4·1	1·7
	Southport ...	p.bcv	bvbcv	57	66	13	0·1	8·9	3·6
	Blackpool ...	c	bcc	57	64	*	*	*	*
	Morecambe ...	bc	bc	58	63	11	–	7·1	3·2
9	Ilkley... ...	orbc	obcp	57	65	3	Trace	4·6	5·2
	Harrogate ...	cbcp	cbcp	56	63	6	0·2	3·4	5·0
10	Berwick-on-T.	bcp.c	c	55	63	7	0·1	4·3	2·2
11	Dunbar ...	bc	cpr.	54	64	3	1	6·1	4·2
12	Troon... ...	ccopc	cocbc	53	60	9	Trace	4·0	2·3
	Douglas ...	bcpr.	bc	52	62	7	3	7·2	1·6

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 11th August, 1939.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind westerly, light or moderate; mainly fair or fine but some local showers; average temperature.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind westerly, moderate; bright intervals but showers, perhaps with thunder locally today; becoming cloudy with rain later tomorrow; rather cool.
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 Orkney and Shetland	Wind west to southwest, moderate or fresh; showery, thunder locally; bright intervals; rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind westerly backing to south tomorrow; showery today with thunder locally; cloudy with rain tomorrow; rather cool.

GENERAL INFERENCE.

A deep depression between Iceland and The Faeroes is almost stationary and another far out on the Atlantic is moving eastwards. Rather cool, showery weather but with bright intervals will occur in most districts today but Ireland and the western districts will come under the influence of the Atlantic depression tomorrow.

FURTHER OUTLOOK.

Unsettled.

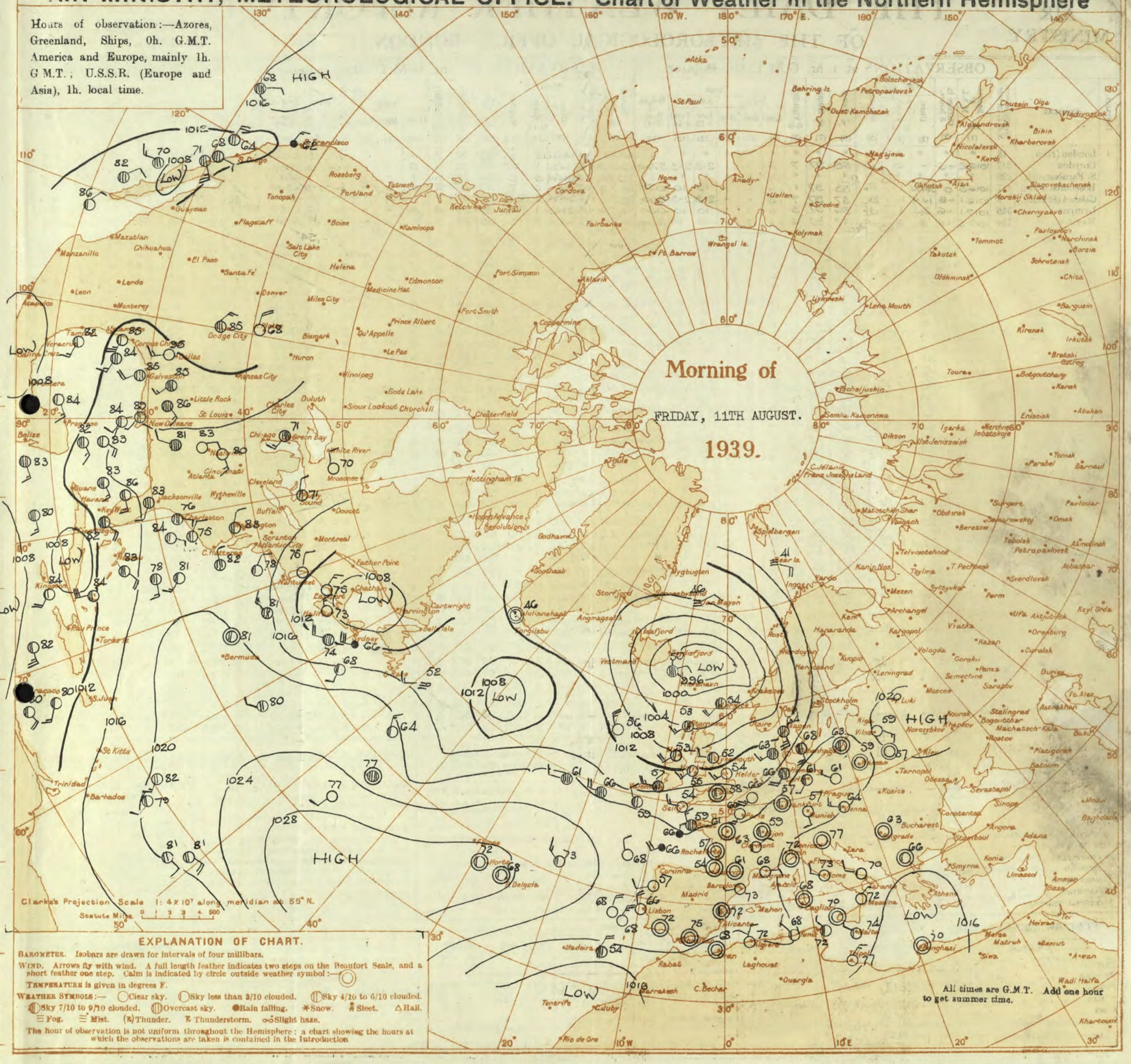
Forecasts issued at 0930 G.M.T.

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

Friday, 11th August, 1939.
No. 28386.

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

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	1016.2	+6	–	0	bc	58	97	7	5	–	1	2-3	2-3	5700
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1016.5	0	SW'W	1	F+	53	97	1	–	–	–	10	10	<150
	Calshot (Sthmtn.)	8	1016.1	+8	W'N	1	bc	57	97	7	5	–	–	2-3	2-3	800
	Lympne	346	1017.1	+6	SW	1	df	56	97	3	–	–	–	10	10	<150
	Manston	154	1016.6	+6	S	2	ir	57	97	6	–	2	–	10	10	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1014.7	+12	SW	2	b	56	92	6	–	–	–	0	0	–
	Mildenhall	19	1015.1	+10	SW'W	3	b	52	92	7	–	–	–	0	0	–
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1015.4	+6	W	4	bc	57	85	8	3	–	–	2-3	2-3	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32														
	Plymouth	82	1017.2	+10	–	0	bc	55	97	7	5	–	–	4-6	4-6	450
	The Lizard	240	1017.4	+6	WSW	2	bc	55	97	8	4	–	1	2-3	2-3	2500
	Scilly (St. Mary's)	163	1017.5	+4	W	3	b	54	97	8	–	–	–	0	0	–
	Guernsey	175	1016.8	+6	W'N	2	c	58	97	8	5	1	–	4-6	7-8	1500
6	Pembroke	142	1015.0	+6	W'N	5	b	58	85	7	7	–	–	1	1	4000
7	Holyhead	26	1012.9	+12	SW	3	b	55	85	8	1	–	–	Tr	Tr	4000
	Chester (Sealand)	16	1013.7	+6	SSE	1	b	51	92	7	–	4	–	0	Tr	–
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1013.7	+10	WSW	3	b	54	85	6	–	–	–	0	0	–
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1010.9	+16	W	2	bc	52	85	7	5	–	–	2-3	2-3	1500
11	St. Abbs Head	280	1008.4	+16	SW	4	b	50	75	8	4	–	–	1	1	2500
	Leuchars	36	1007.7	+14	W	3	bc	51	92	7	5	3	–	2-3	4-6	2500
12	Renfrew (Abbots I.)	19	1008.9	+6	SW'W	3	c	54	85	7	5	–	–	9	9	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1011.2	+12	W	3	b	54	85	8	4	–	–	1	1	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1002.7	+6	SW	3	S/pr	53	92	8	8	–	–	7-8	7-8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1003.2	+8	SW	3	bc	50	85	8	8	7	–	4-6	4-6	1500
16	Lerwick	156	1002.6	+14	SW	4	c	54	92	8	5	2	–	7-8	9+	1500
17	Blacksod Point	18	1009.8	+2	W	4	bc	55	85	8	3	–	–	4-6	4-6	800
18	Malin Head	84	1008.6	+6	SW	4	bc	53	92	7	8	–	–	4-6	4-6	2500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1014.1	0	W	5	c	57	92	8	5	–	–	9	9	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 11th August — 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)	Temp. Max. Day 7h–18h °F. (31)	Temp. Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 10th Hrs. (36)
London (Kew)	1017.3	+14	WNW	2	f	52	92	2	–	–	–	10	10	<150	1	*	66	51	46	1	1	0.1
Croydon	1016.9	+8	W'S	1	bc	57	85	6	5	–	–	2-3	2-3	2500	1	*	67	54	50	1	1	0.2
S. Farnborough	1017.5	+12	SW'W	3	b	54	97	8	5	–	–	1	1	450	1	*	66	49	43	4	0.1	0.1
Boscombe Down	1017.8	+12	–	0	Zo	52	97	6	5	3	–	1	2-3	2500	1	*	67	47	44	4	Tr	1.5
Calshot (Sthmtn.)	1017.7	+12	SW'W	2	b/F	55	97	7	1	4	–	Tr	Tr	1500	1	1	67	53	52	3	0.5	0.5
Lympne	1017.0	+4	SW'S	1	m/d	57	97	4	5	–	–	10	10	<150	1	§1	64	55	45	1	8	0.1
Manston	1017.0	+6	WSW	2	c	59	97	7	5	7	–	9	9+	1500	1	*	68	56	59	Tr	4	0.2
Shoeburyness	1016.9	+10	W'N	2	c	59	85	8	8	–	–	10	10	1500	1	*	69	58	51	0.1	1	0.2
Felixstowe	1016.7	+6	W	3	Z	57	92	6	5	3	–	7-8	9+	5700	0	2	67	56	54	0.2	2	0.3
Gorleston	1015.7	+6	W'N	3	bc	55	85	6	5	3	–	2-3	4-6	2500	0	1	67	51	50	4	–	1.5
Mildenhall	1016.3	+8	SW'W	2	Zo	55	85	6	5	4	–	Tr	1	4000	1	*	67	50	44	4	Tr	3.6
Cranwell	1015.5	+14	W'S	2	Zo	55	85	6	2	3	–	Tr	2-3	2500	1	*	67	46	40	5	Tr	5.4
Birmingham	1016.2	+10	SSW	2	c	54	85	6	8	6	–	4-6	7-8	2500	1	*	66	49	45	6	Tr	4.4
Upper Heyford	1017.1	+8	SW	2	f+	50	97	2	–	–	–	10	10	<150	1	*	67	43	37	3	–	*
Ross-on-Wye	1015.2	+14	SW	1	bc	55	85	8	8	–	–	2-3	2-3	2500	1	*	68	49	40	6	–	7.1
Hartland Point	1017.1	+16	WSW	3	c	59	85	8	8	–	2	4-6	7-8	1500	0	3	62	57	56	6	–	6.4
Bristol	1017.0	+8	WSW	3	bc	56	85	8	8	6	–	4-6	4-6	2500	1	*	65	49	39	3	–	5.0
Portland Bill	1018.2	+20	W	3	c	58	85	8	1	–	–	7-8	7-8	4000	1	3	62	56	*	6	0.6	*
Plymouth	1018.8	+14	–	0	S/pr	55	97	6	8	–	–	7-8	7-8	1500	1	1	63	52	45	10	0.1	0.8
The Lizard	1019.2	+14	W'S	2	bc	57	97	8	8	7	–	4-6	4-6	2500	1	2	62	54	*	10	–	1.2
Scilly (St. Mary's)	1019.0	+12	W'S	4	c	57	92	8	8	6	–	4-6	7-8	2500	1	2	61	53	*	2	–	2.6
Guernsey	1019.0	+14	W'N	1	c	58	92	8	2	7	–	4-6	7-8	1500	1	4	65	55	52	1	5	1.6
Pembroke	1016.4	+6	WNW	5	c	58	92	7	8	7	–	4-6	9	2500	1	3	61	57	*	2	–	9.3
Holyhead	1014.1	+10	SW	3	c	57	85	8	8	3	–	9+	9+	4000	1	2	63	54	50	Tr	–	9.1
Chester (Sealand)	1014.7	+8	S	2	bc	53	85	8	8	7	–	4-6	4-6	4000	1	*	67	48	43	1	0.6	7.5
Manchester	1014.6	+10	S'W	3	Zo	52	97	5	8	3	4	4-6	7-8	2500	1	*	65	44	38	12	.1	3.4
Spurn Head	1014.9	+8	SW'W	2	bc	56	85	6	5	8	–	1	4-6	2500	1	1	66	51	*	8	Tr	3.8
Catterick	1013.1	+6	S'E	3	c	53	92	7	9	5	–	2-3	7-8	1500	1	*	66	48	43	Tr	0.4	5.7
Tynemouth	1012.1	+10	SW	3	bc	54	85	6	2	3	2	2-3	4-6	2500	1	1	65	50	44	2	0.3	4.0
St. Abbs Head	1009.3	+10	SW	4	c	52	85	8	7	6	2	4-6	7-8	2500	0	3	63	47	*	0.3	–	*
Leuchars	1009.3	+10	SSW	3	c	53	85	7	8	7	6	4-6	9	2500	1	*	63	49	45	0.3	–	5.1
Renfrew (Abbots I.)	1010.0	+6	SW	3	pr	55	85	8	8	3	3	9	9+	2500	1	*	61	52	48	2	2	6.4
Eskdalemuir	1010.5	+4	SW'W	3	c	51	85	7	5	4	6	4-6	9	800	1	*	58	44	38	5	0.2	4.5
Point of Ayre	1011.9	+4	W	4	c	55	92	8	2	4	6	1	9	1500	0	2	65	49	*	0.1	–	9.4
Tiree	1006.8	+8	SW'S	3	bc/pr	55	85	8	8	6	–	4-6	4-6	2500	1	3	61	52	48	0.3	1	11.7
Stornoway	1003.9	+2	SSW	5	S/pr	54	85	8	8	7	–	7-8	7-8	4000	1	3	61	52	*	3	2	8.4
Dalwhinnie	1008.4	+10	W	2	c	49	85	8	4	6	4	4-6	7-8	2500	1	*	59	46	38	0.1	1	6.0
Aberdeen	1008.4	+12	SW'W	2	bc	54	75	8	7	–	8	2-3	4-6	2500	1	1	67	50	42	Tr	1	5.6
Wick	1005.6	+12	SW	4	bc	55	85	8	7	7	1	1	2-3	4000	1	2	62	48	*	1	–	*
Lerwick	1004.1	+10	SW'S	5	bc	54	85	8	5	7	8	4-6	4-6	1500	1	*	59	52	*	Tr	–	4.9
Blacksod Point	1010.8	+4	W	5	c	55	97	8	8	–	–	10	10	<150	1	3	60	52	*	2	1	*
Malin Head	1008.6	+2	SW	3	c	54	85	8	8	8	4	4-6	9	4000	0	2	60	50	*	0.1	12	9.0
Aldergrove	1011.1	+10	SW'S	3	c	52	92	8	5	4	–	9	9+	800	1	*	63	49	42	1	–	6.3
Birr Castle	1013.8	+10	W	2	pr	51	92	8	3	–	–	4-6	4-6	1500	1	*	63	50	41	2	1	7.6
Valentia Obsy. †	1017.9	+16	W'N	4	bc	58	85	8	8	3	–	2-3	4-6	2500	1	3	63	57	53	0.3	0.2	11.1
Roches Point	1017.1	+16	W	3	bc	55	92	9	5	4	5	2-3	2-3	2500	1	2	64	54	*	Tr	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	Temp. Day Max. °F.	Temp. Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 hrs. ended 9h.											
Kew	18	criddc	cirm	crroffe	66	51	46	1	1	0.1	•	•	8
Croydon	217	dddrm	rdprr	irrrbc	67	54	50	1	1	0.2	•	•	6
Greenwich (Royal Observatory)	149	crr	rcrr	rc	68	54	46	1	Tr	0.1	80	82	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	*	•	•	•
Westminster (St. James' Park)	27	•	•	•	67	54	51	3		0.0	81	90	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	67	53	49	2	1	*	84	88	•
Camden Square	110	c	c	•	66	54	51	3	0.5	*	•	83	•
Kensington	80	c	cp	•	67	53	50	2	1	0.0	At 18h 80	88	•
Hampstead Observatory	450	o	or	bc	65	51	50	2	1	0.0	•	95	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington.			
Max.	Time.	Min.	Time.
<0.3 whole period			

Kew Observatory.			
Max.	Time.	Min.	Time.
0.1	1-4h. 11th.	<0.1	7-15h. 10th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 10th August Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 11th August 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						1019.5	S	3	o	64		63		–
Brussels	1016.7	SW	4	c	70	1017.6	SSW	3	r.r.	64	75	63	–	0.2
Berlin						1021.5	S'W	3	bc	68		59		–
Zürich	1020.2	NNE	1	b	73						79		–	
Rome						1018.0	ENE	2	b	72	*	*		–

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22—Code for surface visibility.

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

COLUMN 30—Code for State of Sea.

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

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 12th August, 1939.
No. 28387.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1018·2	+6	W'S	3	c	66	45	8	8	-	-	7-8	7-8	4000
	Croydon ...	1018·3	+6	W'S	3	bc	69	55	9	2	-	-	4-6	4-6	4000
	S. Farnborough	1018·4	+6	W'S	4	c	66	45	9	1	-	-	7-8	7-8	4000
	Boscombe Down	1018·9	+6	W	4	bc	64	55	9	2	4	-	4-6	4-6	4000
	Calshot (Soton.)	1019·0	+8	WSW	3	bc	68	55	9	2	4	-	4-6	4-6	1500
	Lympne ...	1018·1	+6	W	3	bc	66	55	9	2	-	5	4-6	4-6	2500
	Manston ...	1017·8	+6	W	3	bc	67	55	8	2	-	8	2-3	2-3	2500
2	Shoeburyness ...	1017·6	+2	WSW	4	bc	68	65	8	2	6	-	4-6	4-6	2500
	Felixstowe ...	1016·9	0	WNW	3	c	68	55	8	8	6	-	7-8	7-8	2500
	Gorleston ...	1015·6	-2	W'S	3	bc	67	55	7	7	3	-	2-3	4-6	2500
	Mildenhall ...	1016·4	+2	SW'W	3	bc/pr	65	65	8	8	7	-	4-6	4-6	4000
	Cranwell ...	1016·3	+6	WNW	2	pr	64	65	7	3	-	3	10	10	1500
3	Birmingham ...	1016·7	+4	W	4	bc	64	55	8	8	6	1	4-6	4-6	4000
	Upper Heyford	1017·4	+2	W'N	3	c	66	65	8	8	4	-	7-8	7-8	2500
4	Ross-on-Wye ...	1017·3	+14	W'S	3	bc	65	55	9	8	-	-	4-6	4-6	2500
5	Hartland Point	1019·8	+12	WNW	3	bc	62	75	8	2	-	-	4-6	4-6	1500
	Bristol ...	1018·8	+6	W'S	5	bc	64	65	8	7	-	-	4-6	4-6	2500
	Portland Bill ...	1020·2	+14	W	3	bc	60	85	8	5	-	-	4-6	4-6	4000
	Plymouth ...	1020·3	+4	WNW	4	c	64	55	9	7	-	-	7-8	7-8	2500
	The Lizard ...	1021·6	+8	WSW	3	bc	63	85	8	2	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	1021·7	+10	WNW	3	bc	66	85	8	2	3	-	1	2-3	2500
	Guernsey ...	1021·3	+10	W'N	4	bc	63	75	8	1	-	-	2-3	2-3	2500
6	Pembroke ...	1019·6	+10	W'N	5	b	60	75	8	7	-	-	1	1	4000
7	Holyhead ...	1015·5	+6	S'W	4	bc	63	65	8	8	-	9	4-6	4-6	2500
	Chester (Sealand)	1016·4	+12	W	3	c	63	55	8	2	4	-	7-8	7-8	2500
8	Manchester ...	1015·6	+6	W'S	4	c	62	65	8	2	8	-	4-6	7-8	4000
10	Spurn Head ...	1015·2	0	SW'W	2	bc	70	55	6	9	8	3	2-3	4-6	800
	Catterick ...	1013·5	-4	WSW	4	bc	63	65	8	8	-	1	4-6	4-6	1500
	Tynemouth ...	1012·1	0	W	3	bc	65	55	8	2	-	1	4-6	4-6	2500
11	St. Abbs Head...	1010·3	+4	WSW	4	c/pr	61	55	8	8	6	-	4-6	9+	2500
	Leuchars ...	1009·9	+2	WSW	4	c	63	65	8	8	4	-	4-6	7-8	2500
12	Renfrew (Abbotsl.)	1011·3	+6	SW'W	4	c	62	75	8	8	6	-	7-8	9	2500
	Eskdalemuir ...	1011·8	+2	SW'S	4	pr	56	75	8	8	-	-	9	9	1500
	Point of Ayre ...	1013·7	+16	W'S	5	c	66	65	8	7	-	-	9	9	2500
13A	Tiree ...	1009·8	+16	WSW	4	pr	58	85	8	8	-	-	7-8	7-8	1500
13B	Stornoway ...	1005·4	+8	WSW	5	r$_o$r$_o$	56	92	6	8	-	-	10	10	1500
15	Dalwhinnie ...	1008·8	+8	SSW	5	c	58	65	8	5	6	-	7-8	10	2500
	Aberdeen ...	1009·1	0	SW'S	4	bc/pr	62	55	8	8	-	3	4-6	4-6	2500
	Wick ...	1006·5	+4	SSW	4	bc	61	65	8	7	7	1	2-3	4-6	2500
16	Lerwick...	1006·4	+2	SSW	5	bc	56	85	8	8	-	-	4-6	4-6	2500
17	Blacksod Point...	1016·3	+28	W	5	bc	61	85	8	3	-	-	4-6	4-6	800
18	Malin Head ...	1012·0	+18	W	5	bc	61	75	8	2	-	4	2-3	4-6	4000
	Aldergrove ...	1012·3	+6	WSW	3	pr	62	75	7	8	-	-	9	9	1500
19	Birr Castle ...	1016·5	+14	WNW	4	c	62	75	8	3	7	-	2-3	7-8	1500
20	Valentia Obsy.†	1020·8	+16	W'N	4	bc	61	75	8	8	-	-	2-3	2-3	1500
	Roches Point ...	1019·0	+6	WNW	4	c/pr	62	75	9	8	4	-	7-8	7-8	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1019·2	+10	W'S	3	bc	66	55	8	8	6	-	4-6	4-6	4000	1	*
Croydon	1019·2	+6	W	3	bc	67	55	8	1	-	-	2-3	2-3	5700	1	*
S. Farnborough	1019·6	+10	WSW	4	b	66	45	9	1	-	-	Tr	Tr	4000	1	*
Boscombe Down	1020·5	+14	W'N	4	bc	63	45	9	1	-	-	2-3	2-3	4000	0	**
Calshot (Soton.)	1020·0	+6	W'N	3	b	67	55	8	1	-	-	Tr	Tr	2500	1	2
Lympne	1019·4	+14	WSW	2	b	66	65	9	1	-	-	1	1	4000	0	§ 4
Manston	1018·9	+8	W	2	b	66	55	8	1	-	-	1	1	4000	1	*
Shoeburyness	1018·5	+10	W'N	3	bc	67	55	8	8	-	-	4-6	4-6	4000	1	*
Felixstowe	1018·2	+10	WNW	4	c	67	55	8	8	-	-	7-8	7-8	2500	0	2
Gorleston	1017·5	+10	-	0	bc	63	75	7	5	-	-	4-6	4-6	2500	0	1
Mildenhall	1017·4	+6	W	3	bc	66	55	8	8	-	-	2-3	2-3	4000	0	*
Cranwell	1017·1	+10	W	2	b	65	55	8	2	6	-	Tr	1	4000	1	*
Birmingham	1018·6	+12	WSW	3	bc	63	55	8	8	-	-	4-6	4-6	4000	1	*
Upper Heyford	1018·8	+12	WNW	4	bc	65	55	9	8	6	-	2-3	2-3	2500	1	*
Ross-on-Wye	1019·1	+8	W	3	bc	64	55	8	7	-	-	4-6	4-6	4000	1	*
Hartland Point	1021·2	+4	NW	3	bc	60	75	8	7	-	-	2-3	2-3	1500	0	3
Bristol	1020·1	+4	W	5	b	61	75	9	4	-	-	1	·1	4000	0	*
Portland Bill	1021·5	+16	W	3	bc	60	85	8	5	-	-	4-6	4-6	4000	1	3
Plymouth	1022·0	+10	WNW	4	bc	64	55	9	7	-	-	4-6	4-6	2500	1	1
The Lizard	1022·9	+6	W'S	4	bc	61	85	8	8	4	-	2-3	2-3	2500	1	2
Scilly (St. Mary's)	1023·0	+4	WNW	3	bc	62	85	8	4	4	-	1	2-3	2500	1	2
Guernsey	1022·3	+10	W	3	b	61	85	8	-	1	8	0	1	-	1	2
Pembroke	1020·2	+4	W'N	6	bcq	61	85	8	7	4	-	2-3	2-3	2500	1	3
Holyhead	1016·6	+6	SW	3	bcjp	61	75	9	8	-	-	4-6	4-6	4000	1	2
Chester (Sealand)	1017·2	+8	SW'W	3	c	63	65	8	8	-	-	7-8	7-8	4000	1	*
Manchester	1016·6	+6	SW	4	c	61	75	8	2	4	-	7-8	7-8	2500	1	*
Spurn Head	1016·3	+2	SSE	2	bc	60	85	6	8	4	-	2-3	4-6	2500	2	1
Catterick	1014·9	+10	SW'W	3	bc	61	75	8	5	4	-	4-6	4-6	2500	1	*
Tynemouth	1013·4	+8	W	4	bc	63	55	8	2	3	1	2-3	4-6	2500	1	1
St. Abbs Head	1011·6	+6	WSW	4	c	60	65	9	8	6	1	4-6	7-8	2500	0	2
Leuchars	1010·8	+6	SW	3	c	61	75	9	8	4	3	4-6	7-8	2500	0	*
Renfrew (Abbotsl.)	1013·0	+12	W	3	c	60	65	8	8	-	-	9	9	1500	1	*
Eskdalemuir	1012·8	+4	SW'W	3	bc/pr	58	75	8	8	-	1	4-6	4-6	1500	1	*
Point of Ayre	1015·2	+12	NW	3	bc	63	85	8	8	-	-	4-6	4-6	2500	0	2
Tiree	1011·9	+6	W'S	5	c	58	75	8	4	-	-	7-8	7-8	2500	0	4
Stornoway	1006·2	+4	WSW	6	PR	57	85	7	8	7	-	7-8	9+	1500	1	3
Dalwhinnie	1011·7	+8	W	5	c	55	65	8	4	6	-	4-6	7-8	2500	0	*
Aberdeen	1009·7	+8	WSW	3	pr	59	85	6	9	-	-	9	9	1500	1	1
Wick	1006·8	+2	SW	3	rr	55	92	7	5	2	-	9	10	1600	1	1
Lerwick	1004·4	0	SSW	5	c	55	85	8	5	7	-	4-6	9	1500	0	*
Blacksod Point	1018·8	+10	W	5	bc	59	85	8	3	-	-	4-6	4-6	800	0	3
Malin Head	1014·8	+16	W'N	5	cjp	58	75	8	9	6	-	4-6	7-8	4000	0	4
Aldergrove	1015·5	+20	W	4	pr	60	75	9	8	-	-	9+	9+	1500	1	*
Birr Castle	1019·5	+8	WNW	5	c	62	65	8	2	8	-	4-6	7-8	1500	1	*
Valentia Obsy.†	1022·3	+6	WNW	4	bc	61	75	8	2	-	-	2-3	2-3	1500	0	2
Roches Point	1020·5	+6	NW	4	bc	63	65	9	7	-	-	2-3	2-3	4000	1	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 11th (37)	Weather 13h.—18h. 11th (38)	Weather 18h. 11th to 1h. 12th (39)	Weather 1h.—7h. 12th (40)
London (Kew)	offecbcy	bcy	bcybw	bbm$_o$w
Croydon	cbcy	bcy	bcybw	bmb
S. Farnborough	bbccy	cybcby	bybw	bwm$_o$b
Boscombe Down	bm$_o$bcpr$_o$bc	/bcb	b	bcf$_g$bm$_o$
Calshot (Soton.)	bbcvy	bcbby	byb	bbcmywb
Lympne	omRbcy	bcybc	bw	bwbc
Manston	crrddbcy	bcyby	by,c,bm	bbcwb
Shoeburyness	bcz$_o$bc	bcy	bcyb	bm$_o$w
Felixstowe	cm$_o$bcq	cy by	bcyb	bwbm$_o$
Gorleston	bcy	bcypr$_o$	bcb	bbc
Mildenhall	bmbcpr$_o$	bcy	bcvyb	bwbcb
Cranwell	bcctl$_o$cpr$_o$	cbcby	bybcqb	bwbccm$_o$
Birmingham	bcpr$_o$	bcv	bcc	cbcw
Upper Heyford	ofcbcc	bc	b	bw
Ross-on-Wye	bccvy	bcvy	bcb	bwbc
Hartland Point	cp$_o$bc	bc	bc	bcc
Bristol	bcwcp$_o$bc	bcb	bbcbw	bw
Portland Bill	cbc	bc	b	bcc
Plymouth	cm$_o$pr$_o$bc	bcy	bcybw	bbcm$_o$
The Lizard	bc	bc	bcw	bcw
Scilly (St. Mary's)	cbc	bcbbc	bcw	bccw
Guernsey	cbc	bcb	bbcw	bcw
Pembroke	cbcb	bbco	bcbw	bcc
Holyhead	cbc	bccpr$_o$	bcpr$_o$b	bbc
Chester (Sealand)	bcwcpr$_o$bcy	bccypr$_o$	bcbbcbw	bbcmcbcw
Manchester	bcm$_o$cbc	bc,c	c,bcbm,w	bm$_o$wbc
Spurn Head	cprt	PRtl	cb	bbcmw
Catterick	bctPR	bc	bcbbw	bwbcc
Tynemouth	bccptl	bcp$_o$t	bc	bc
St. Abbs Head	prcy	c	bc	bc
Leuchars	cpr$_o$cbc	bccPRc	bcb	bcblc
Renfrew (Abbotsl.)	cpr$_o$c	cpr$_o$bcc	ccir$_o$m$_o$	cmbccpr$_o$
Eskdalemuir	cwprpqr	cprbc	bc	bcc
Point of Ayre	c	cbc	bccbc	c
Tiree	bcpr$_o$	bcpr$_o$	cir	cir$_o$
Stornoway	cPRR	cPR	cpr	cPR
Dalwhinnie	cir$_o$	c		cir$_o$
Aberdeen	bcpr	ccpr	cr$_o$r$_o$bc	bcc
Wick	bc	bccpr	rrprc	cpr$_o$c
Lerwick	bc	bcc	crrpr	cpr
Blacksod Point	bc	bc	bc	c
Malin Head	cbc	bcpr$_o$c	cpr$_o$cpr$_o$c	cpr$_o$c
Aldergrove	cpr$_o$c	prpr$_o$q	pr$_o$qbc	cprbc
Birr Castle	cprc	c	cb	bbcc
Valentia Obsy.†	bcbbc	bc	bcc	cwc
Roches Point	bcp$_o$c	cbc	bcbw	bwbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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.*

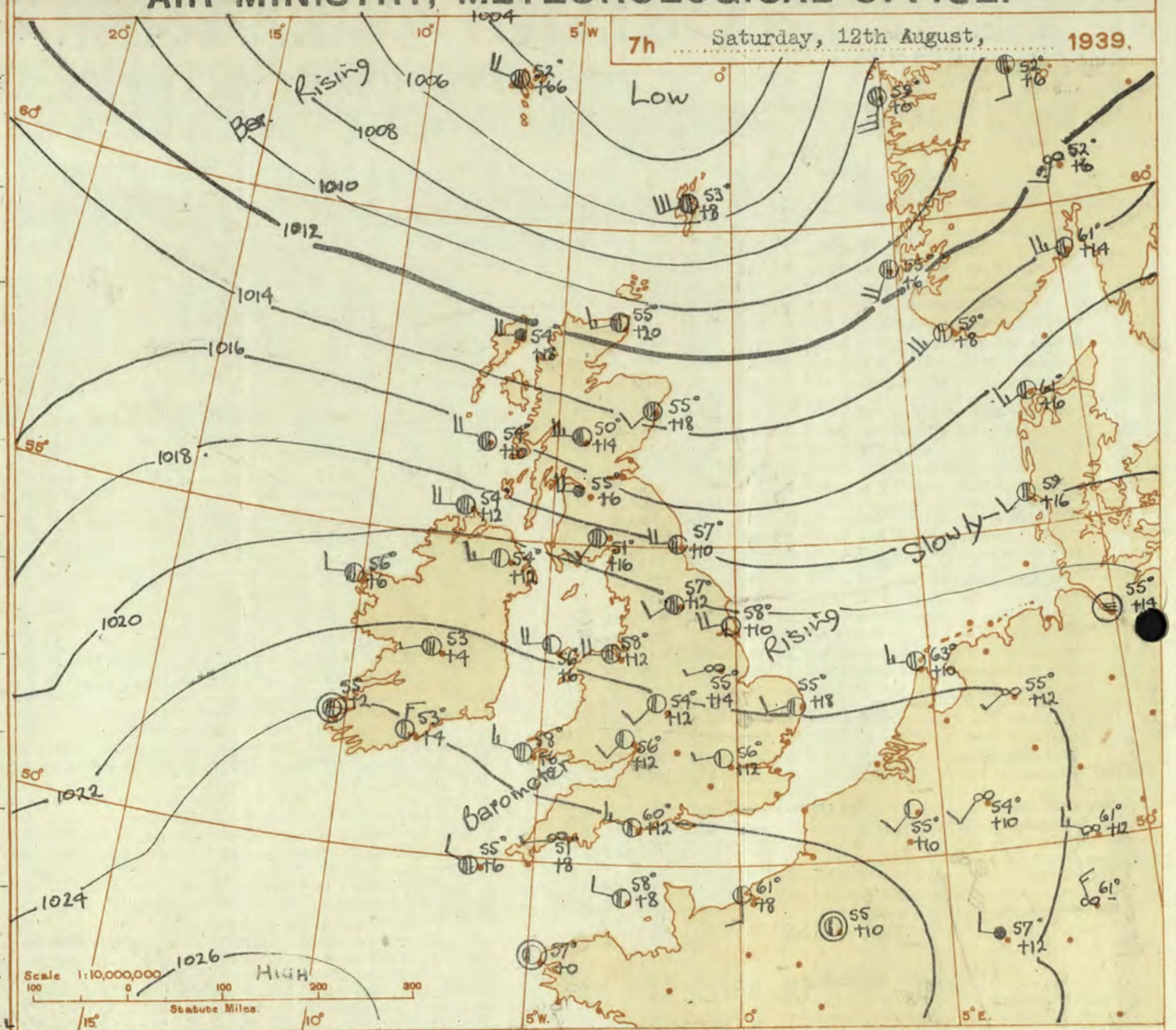
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 11th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 10th. to 9h. 11th.	Temperature. (°F) Max. 9h.—17h. 11th.	Rainfall. (mm.) Night. 17h. 10th. to 9h. 11th.	Rainfall. (mm.) Day. 9h.—17h. 11th.	Sunshine. (Hrs.) Sunrise to 17h. 11th.	Sunshine. (Hrs.) Sunrise to Sunset. 10th.
1	Tunbridge W.	b	b	56	70	1	-	10·2	0·7
	Bournemouth	bcbp	bcb	51	69	3	Trace	9·9	0·8
	Ventnor ...	rb	b	54	65	7	-	11·1	0·2
	Southsea ...	bcb	bcb	55	68	2	-	9·7	0·3
	Bognor Regis	bbc	bcb	55	69	4	-	9·7	0·4
	Littlehampton	bcb	c	56	68	4	-	10·3	0·9
	Worthing ...	b	bcb	57	68	5	-	9·7	0·6
	Brighton ...	bcb	bbc	58	67	5	-	9·2	0·5
	Eastbourne† ...	b	b	58	66	6	-	10·2	1·0
	Hastings† ...	bc	bcb	57	67	10	-	9·5	1·0
	Folkestone ...	cbc	bcb	57	69	8	-	6·6	0·2
	Dover ...	bc	bc	57	71	6	-	7·1	0·2
	Deal	codbc	bccbc	57	71	6	1	7·8	1·3
	Ramsgate ...	rbc	bcb	57	69	5	0·1	6·8	0·3
	Margate ...	cdobc	bc	57	69	3	Trace	8·0	0·3
2	Southend ...	bcb	b	57	71	1	-	8·5	0·5
	Clacton-on-Sea	cbc	bcy	56	69	1	-	7·6	0·1
	Dovercourt ...	rocbc	bc	55	69	2	-	8·8	0·2
	Lowestoft ...	bbc	bcc	50	70	Trace	-	8·4	1·1
	Skegness ...	bcorobcb		47	65	-	5	5·3	4·9
	Mablethorpe...	obccbc	bbcy	46	69	-	-	6·7	5·0
	Cleethorpes ...	bcrbctmbc		47	68	Trace	3	6·0	4·5
3	Leamington S.	bc	bc	47	68	-	-	10·0	5·3
4	Cheltenham†	wbbc	bcy	48	70	-	-	9·9	7·0
5	Bath	bcb	b	47	67	Trace	-	9·4	3·0
	Weymouth ...	bcpb	b	52	67	2	Trace	9·2	1·2
	Jersey ...	rcbc	bc	59	66	1	-	10·5	1·7
	Torquay ...	wbbcv	bcbvy	49	68	Trace	-	7·5	1·3
	Falmouth ...	cvorc	b	52	67	1	Trace	7·8	0·8
	Penzance ...	cpbcb	b	52	67	-	0·5	7·6	0·7
	St. Ives ...	b	b	55	64	-	-	7·7	1·2
	Bude... ...	bcc	bc	58	64	-	-	8·5	5·0
	Ilfracombe ...	pcbc	bc	55	64	1	-	9·2	8·4
6	Aberystwyth	cbc	bcc	54	63	-	-	9·0	8·5
7	Llandudno ...	bc	bc	55	65	0·5	-	9·2	10·6
	Colwyn Bay...	bcb	bcb	49	66	-	-	8·5	9·2
	Rhyl	bc	b	48	68	-	-	7·9	7·2
8	Wallasey ...	bcb	bbcc	52	66	-	-	9·1	5·2
	Southport ...	pobcy	pobvbc	49	66	1	0·3	10·7	10·9
	Blackpool ...	cpo	bcb	56	65	0·3	Trace	7·3	*
	Morecambe ...	bcir	bcp	53	63	1	0·5	5·7	8·4
9	Ilkley... ...	bcptl	bcp	46	65	-	1	7·4	5·7
	Harrogate ...	cbcP	bbc	48	64	-	3	8·4	4·9
10	Berwick-on-T.	cbc	ico	48	63	-	Trace	7·2	4·6
11	Dunbar ...	bc	cpro	50	64	-	Trace	6·0	7·4
12	Troon... ...	ocbcc	opcbc	54	61	0·5	Trace	5·9	4·4
	Douglas ...	bcpro	bc	51	63	Trace	Trace	4·6	7·9

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 12th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind light or moderate, westerly; fair or fine; temperature about the average by day; cool night.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind westerly, moderate or fresh; bright intervals but local showers; temperature about average.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind west to southwest, moderate, cloudy; occasional rain or drizzle; average temperature.

GENERAL INFERENCE.

Pressure is high to the south and low to the north of the British Isles and a feeble trough of low pressure is approaching the west of Ireland. The weather will be mainly fair over England and Wales and showery in Scotland but some rain or drizzle will spread to Ireland and later probably to Scotland.

FURTHER OUTLOOK.

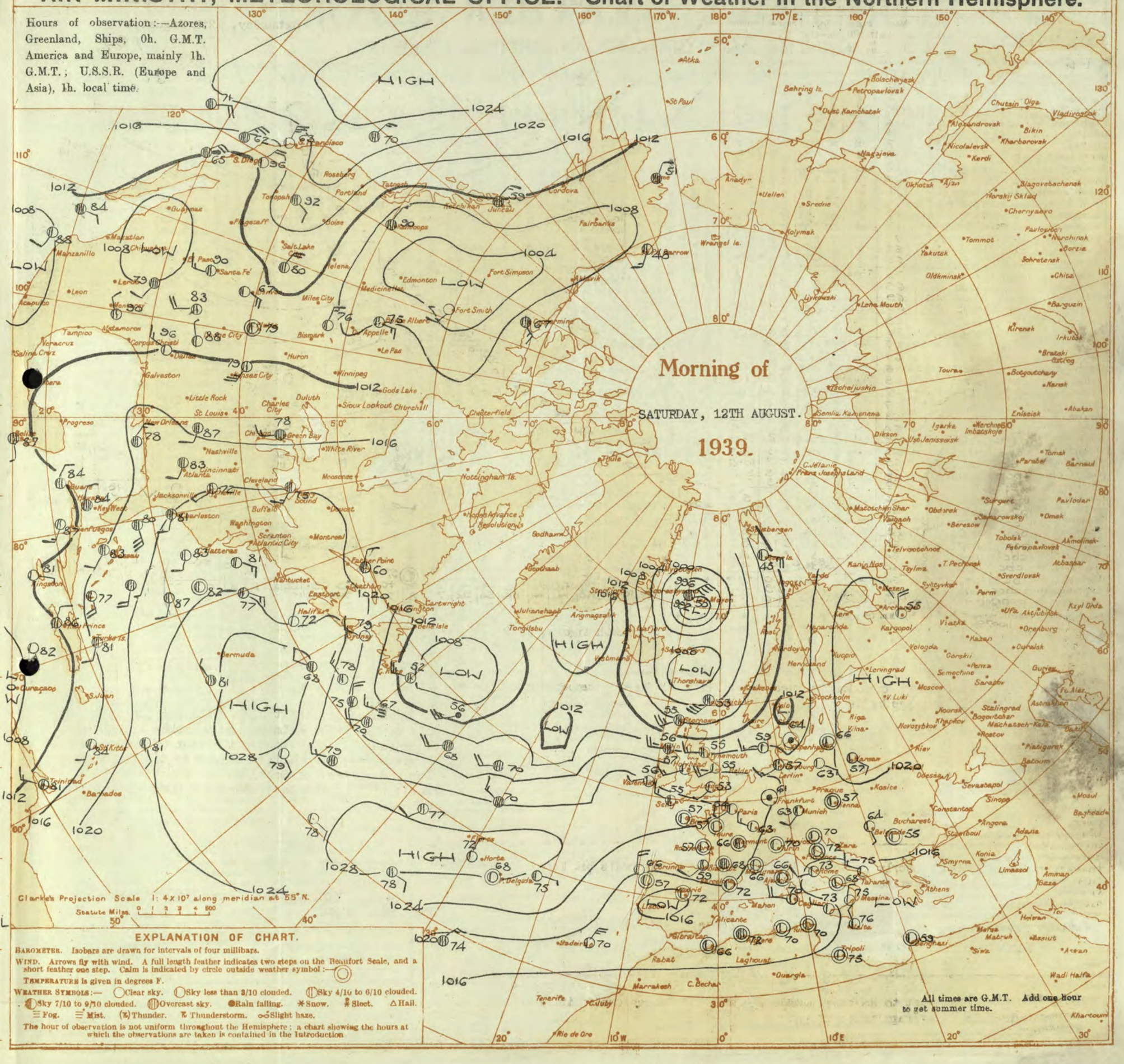
Fair in the South and warm; unsettled in the West and North.

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.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 12th August, 1939.
No. 28387. D.R.J.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 2 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	1021·9	+2	SW'W	1	b	53	85	8	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1022·9	-2	NW'W	1	b	52	85	7	-	-	-	0	0	-
	Calshot (Stbmtn.)	8	1022·8	+2	SW	2	b	51	85	8	-	-	-	0	0	-
	Lympne	346	1021·9	+2	NW	2	b	52	97	7	-	-	-	0	0	-
	Manston	154	1021·8	+6	W	2	b	54	85	7	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1019·7	+8	SW	2	b	54	85	7	-	-	-	0	0	-
	Mildenhall	19														
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022·9	0	WNW	3	bc	58	92	8	2	-	-	2-3	2-3	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1023·1	+8	NW	2	b	58	85	8	-	-	-	0	0	-
	Plymouth	82	1024·3	+4	E	1	b	51	92	8	-	-	-	0	0	-
	The Lizard	240	1024·8	0	W'N	2	bc	55	92	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1025·1	+2	WNW	3	bc	55	97	8	1	-	-	2-3	2-3	2500
	Guernsey	175	1024·3	+4	NW	1	bc	53	92	8	-	1	-	0	2-3	-
6	Pembroke	142	1022·9	+8	NW'N	4	b	58	85	8	-	4	-	0	Tr	-
7	Holyhead	26	1019·9	+6	W'S	3	b	57	85	8	1	-	-	Tr	Tr	4000
	Chester (Sealand)	16	1020·2	+6	WSW	2	bc	59	75	7	5	-	-	2-3	2-3	4000
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1018·3	+4	W'S	4	b	55	85	7	-	-	-	0	0	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1016·2	+2	W	3	bc	55	85	7	2	-	-	2-3	2-3	2500
11	St. Abbs Head	280	1013·4	+5	SW	5	bc	53	75	8	4	4	-	2-3	4-6	2500
	Leuchars	36	1012·6	+4	WSW	4	bc	53	85	8	4	-	-	2-3	2-3	1500
12	Renfrew (Abbots I.)	19	1015·5	+6	W	3	Z_0	55	85	6	5	-	-	9	9	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1018·5	+10	NW'W	5	bc	57	85	8	8	-	-	4-6	4-6	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1009·5	+6	WSW	5	c	55	85	7	8	7	-	9	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1007·9	+6	SW	3	c	54	92	8	5	7	-	4-6	7-8	1500
16	Lerwick	156	1003·9	+2	SW	6	c/pr	53	97	7	8	7	-	4-6	10	450
17	Blacksod Point	18	1020·7	+4	W	2	c	56	92	7	5	-	-	10	10	800
18	Malin Head	84	1017·5	+12	W	4	c/b	56	75	6	9	-	-	7-8	7-8	1500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1024·1	+2	W'S	1	b	56	92	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 2 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)	1023·4	+14	WSW	1	Z_0	56	92	6	-	-	1	0	Tr	-	1	*
	Croydon	1023·1	+12	W'S	1	b	56	92	7	1	-	-	Tr	Tr	2500	1	*
	S. Farnborough	1023·5	+10	WSW	1	b	54	92	8	1	4	-	Tr	Tr	2500	1	*
	Boscombe Down	1023·9	+12	-	0	b	52	97	6	5	-	1	Tr	1	2500	1	*
	Calshot (Stbmtn.)	1023·8	+12	WSW	3	b	56	85	8	-	4	-	0	Tr	-	1	1
	Lympne	1023·5	+14	SW	4	b	53	85	8	-	-	1	0	Tr	-	0	§1
	Manston	1023·3	+14	W	2	b	57	85	6	-	-	-	0	0	-	1	*
2	Shoeburyness	1022·6	+12	W'S	3	b	58	85	6	-	-	-	0	0	-	0	*
	Felixstowe	1022·5	+12	W'N	3	Z_0	56	85	6	-	4	-	0	Tr	-	0	2
	Gorleston	1021·9	+18	W'S	2	bc	55	85	7	-	5	-	0	2-3	-	0	1
	Mildenhall	1022·2	+14	W'S	3	Z_0	54	92	6	8	3	-	1	4-6	5700	1	*
	Cranwell	1021·2	+14	W'S	1	Z_0	55	92	6	-	3	-	0	9	-	1	*
3	Birmingham	1022·1	+12	SW	2	bc	54	85	7	-	4	2	0	4-6	-	1	*
	Upper Heyford	1022·7	+10	WSW	1	bc	53	97	7	5	3	9	1	2-3	2500	1	*
4	Ross-on-Wye	1022·6	+12	SW	2	bc	56	85	8	5	-	1	4-6	4-6	4000	1	*
5	Hartland Point	1023·9	+8	WNW	3	c	58	85	8	8	4	-	4-6	7-8	1500	0	2
	Bristol	1023·6	+10	WSW	3	b	57	85	7	5	4	-	Tr	1	2500	1	*
	Portland Bill	1024·2	+12	WNW	3	bc	60	85	8	5	-	-	4-6	4-6	4000	1	3
	Plymouth	1024·8	+8	W'S	1	Z_0	51	97	6	5	-	-	7-8	7-8	5700	1	1
	The Lizard	1025·1	+8	W	2	bc	56	97	8	4	-	-	2-3	2-3	2500	1	2
	Scilly (St. Mary's)	1025·4	+6	NW	2	c	55	97	8	8	3	-	4-6	7-8	2500	1	1
	Guernsey	1024·8	+8	WNW	2	bc	58	85	8	1	7	8	Tr	2-3	2500	1	2
6	Pembroke	1023·6	+6	WNW	3	c	58	92	8	5	7	-	7-8	9	2500	1	2
7	Holyhead	1021·8	+6	W	4	bc	56	85	8	8	4	-	2-3	2-3	4000	1	2
	Chester (Sealand)	1021·7	+12	W	2	c	58	75	9	8	3	-	4-6	7-8	2500	0	*
8	Manchester	1021·2	+14	W'S	3	bc	57	85	7	8	3	9	2-3	4-6	4000	1	*
10	Spurn Head	1020·2	+10	W'S	4	b	58	85	6	-	4	-	0	1	-	1	3
	Catterick	1019·3	+12	SW'W	2	c	57	75	8	5	3	7	2-3	7-8	4000	1	*
	Tynemouth	1017·0	+10	W	4	bc	57	75	7	2	6	1	2-3	4-6	2500	1	1
11	St. Abbs Head	1014·8	+10	W	6	bc	56	92	8	4	7	-	2-3	4-6	2500	0	4
	Leuchars	1014·3	+6	WSW	4	bc	55	75	9	7	3	9	Tr	4-6	2500	0	*
12	Renfrew (Abbots I.)	1016·4	+6	W	4	pr	55	85	8	8	-	3	7-8	7-8	2500	1	*
	Eskdalemuir	1017·8	+16	SW	3	c	51	85	8	5	-	-	10	10	800	1	*
	Point of Ayre	1020·2	+16	WNW	4	c	57	85	8	5	-	-	9+	9+	2500	0	3
13A	Tiree	1016·1	+10	W'N	4	c	54	85	8	6	-	-	9	9	1500	1	4
13B	Stornoway	1012·6	+18	W	4	PR	54	92	7	8	7	-	7-8	9+	1500	1	2
15	Dalwhinnie	*	+14	W	5	c	50	85	7	6	7	-	7-8	10	2500	1	*
	Aberdeen	1013·4	+18	SW	2	c	55	75	7	5	7	-	4-6	9	4000	1	1
	Wick	1010·3	+20	WSW	3	c	55	85	8	5	7	-	4-6	7-8	1500	1	1
16	Lerwick	1004·7	+8	SW'W	6	c/pr	53	92	7	8	7	-	7-8	9+	800	1	*
17	Blacksod Point	1021·3	+6	W	2	c	56	85	8	5	-	-	7-8	7-8	800	0	2
18	Malin Head	1018·8	+12	W	4	c	54	85	8	2	6	-	4-6	9	4000	0	3
	Aldergrove	1020·0	+12	WSW	3	bc	54	85	8	8	-	6	4-6	4-6	2500	1	*
19	Birr Castle	1023·3	+4	WSW	1	c	53	97	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy. †	1024·1	+2	-	0	c	55	85	9	5	-	-	9	9	2500	0	1
	Roches Point	1024·1	+4	N	3	bc	53	92	9	5	-	3	4-6	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 11th Hrs. (36)
London (Kew)	68	51	41	-	Tr	9·8
Croydon	69	50	44	-	-	12·5
S. Farnborough	69	44	39	-	-	12·1
Boscombe Down	67	46	42	Tr	-	12·3
Calshot (Stbmtn.)	69	49	46	-	-	11·9
Lympne	68	49	44	1	-	10·6
Manston	69	49	43	0·1	-	8·5
Shoeburyness	72	52	45	-	-	9·8
Felixstowe	71	52	49	-	-	9·7
Gorleston	69	51	50	Tr	-	9·0
Mildenhall	69	48	44	Tr	-	11·0
Cranwell	67	50	43	1	Tr	9·2
Birmingham	66	51	46	0·2	Tr	10·7
Upper Heyford	68	47	39	-	-	*
Ross-on-Wye	68	49	42	-	-	12·0
Hartland Point	63	57	56	0·5	-	10·9
Bristol	65	52	42	0·1	-	11·3
Portland Bill	60	56	*	-	-	*
Plymouth	66	48	46	Tr	-	9·[illegible]
The Lizard	65	52	*	-	-	10·2
Scilly (St. Mary's)	66	53	*	-	Tr	11·6
Guernsey	65	51	46	-	-	13·6
Pembroke	61	56	*	-	-	11·1
Holyhead	63	55	52	0·2	Tr	8·5
Chester (Sealand)	66	52	45	Tr	-	8·7
Manchester	65	50	45	-	-	7·7
Spurn Head	70	54	*	10	Tr	7·5
Catterick	64	52	46	4	-	8·4
Tynemouth	65	53	48	3	-	8·1
St. Abbs Head	63	51	*	Tr	-	*
Leuchars	64	50	46	0·2	-	7·1
Renfrew (Abbots I.)	62	53	48	0·2	Tr	5·2
Eskdalemuir	60	49	47	3	-	3·9
Point of Ayre	67	55	*	-	-	9·6
Tiree	61	53	51	0·5	1	8·5
Stornoway	59	53	*	3	6	4·0
Dalwhinnie	58	46	46	0·2	0·5	3·2
Aberdeen	64	50	45	1	0·6	8·0
Wick	62	52	*	1	2	*
Lerwick	58	52	*	-	3	10·4
Blacksod Point	62	53	*	2	*	*
Malin Head	61	51	*	1	2	7·9
Aldergrove	65	54	50	1	1	4·2
Birr Castle	64	49	38	Tr	-	7·9
Valentia Obsy. †	62	53	47	-	-	11·3
Roches Point	64	49	*	Tr	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morn'ng. (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	offecboy	bcy	bcybW	68	51	41	-	Tr	9·8	*	*	7
Croydon	217	cbcy	bcy	bcybmb	69	50	44	-	-	12·5	*	*	8
Greenwich (Royal Observatory)	149	cy	cy	bW	70	50	40	-	-	9·7	45	71	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park)	27	*	*	*	70	52	47	Tr		8·0	70	79	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	67	51	44	-	-	7·6	51	75	*
Camden Square	110	bc	bc	*	70	51	46	-	-	*	*	76	*
Kensington	80	bc	bc	*	70	51	47	Tr	-	7·3	At 18h 49	73	*
Hampstead Observatory	450	bc	bc	b	68	50	49	-	-	7·8	*	83	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 12th

South Kensington. Max.	Time.	Min.	Time.
<0·3	whole period		

Kew Observatory. Max.	Time.	Min.	Time.
0·1	3h. 12th	<0·1	11-15h. 11th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 11th August. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 12th August. 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	1020·9	SW	2	0	63	1024·6	-	0	bc	55	75	*	13	*
Brussels	1019·0	NW	3	bc	64	1023·0	SW	2	b	55	66	*	8	*
Berlin	1017·2	SSE	3	bc	75	1019·2	NW	3	r_0	61	82	61	-	11
Zürich	1019·5	WNW	2	bc	73	1021·1	NNW	1	Z_0	63	79	59	-	-
Rome	1016·2	W	3	b	77	1006·1	NE	2	Z_0	70	*	*	-	*

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 Precipitous.
4 Rough.	9 Confused.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 13th August, 1939.

No. 28388

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

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)	1023.2	0	WNW	2	c	66	55	8	8	6	3	4-6	7-8	4000
	Croydon	1022.8	-4	WNW	1	bc	70	65	8	1	4	4	2-3	4-6	4000
	S. Farnborough	1023.1	-2	WNW	3	c	67	55	9	7	-	-	7-8	7-8	5700
	Boscombe Down	1024.0	0	WNW	4	bc	66	65	8	8	7	8	4-6	4-6	4000
	Calshot (Soton.)	1023.6	+2	WNW	3	bc	66	55	8	7	-	-	4-6	4-6	2500
	Lympne	1023.0	-2	SW	3	bc	66	75	8	2	6	-	4-6	4-6	4000
	Manston	1023.1	+2	-	0	c	65	65	7	2	-	8	7-8	7-8	2500
2	Shoeburyness	1022.6	-6	WSW	3	c	70	55	6	8	-	2	7-8	7-8	4000
	Felixstowe	1022.8	+2	S	4	pr	64	75	8	8	-	-	9	9	2500
	Gorleston	1022.0	0	NE'N	3	c	67	55	7	8	3	-	4-6	9+	2500
	Mildenhall	1022.2	+2	W'N	3	c	66	55	8	8	7	1	7-8	9+	2500
	Cranwell	1022.3	+6	WNW	3	c	64	55	7	8	-	-	7-8	7-8	4000
3	Birmingham	1023.0	+2	W	3	bc	64	45	8	7	6	1	2-3	4-6	2500
	Upper Heyford	1023.4	+4	WNW	3	c	63	65	9	8	3	6	7-8	9+	2500
4	Ross-on-Wye	1023.3	+4	WNW	2	c	63	55	9	7	-	-	9+	9+	4000
5	Hartland Point	1025.2	+4	WNW	2	bc	61	75	8	2	4	-	2-3	4-6	1500
	Bristol	1024.3	+2	W'N	3	c	64	65	8	8	3	1	4-6	7-8	2500
	Portland Bill	1024.4	0	W	2	bc	62	85	8	1	-	-	4-6	4-6	4000
	Plymouth	1024.6	0	SW	3	c	62	85	8	2	-	1	7-8	7-8	2500
	The Lizard	1025.6	+2	W'S	3	bc	62	85	8	8	4	-	2-3	4-6	2500
	Scilly (St. Mary's)	1025.3	+2	W'S	2	bc	64	85	8	7	4	8	2-3	4-6	4000
	Guernsey	1025.2	0	NW	3	bc	62	75	8	1	7	-	4-6	4-6	1500
6	Pembroke	1025.2	+2	WNW	3	bc	61	85	8	2	7	-	4-6	4-6	2500
7	Holyhead	1023.3	+8	WSW	3	c	61	75	8	8	-	-	7-8	7-8	4000
	Chester (Sealand)	1023.1	+4	WNW	4	c	63	65	8	8	-	-	7-8	7-8	4000
8	Manchester	1022.4	+6	W	4	c	63	65	8	8	3	-	7-8	7-8	2500
10	Spurn Head	1021.7	+4	W	4	c	64	65	6	8	-	-	9	9	2600
	Catterick	1020.2	+8	W'S	3	bc	63	65	9	8	3	-	4-6	4-6	2500
	Tynemouth	1019.5	+4	W	4	bc	64	55	8	2	6	-	4-6	4-6	2500
11	St. Abbs Head	1017.4	+14	WNW	5	bc	60	55	9	8	4	1	4-6	4-6	2500
	Leuchars	1017.1	+12	W	4	bc	64	55	9	8	7	1	4-6	4-6	2500
12	Renfrew (Abbotsl.)	1019.5	+14	WNW	4	c/pr	61	55	9	8	6	3	7-8	7-8	1500
	Eskdalemuir	1019.0	+6	W	4	c	60	55	8	7	-	1	7-8	7-8	2600
	Point of Ayre	1021.9	+10	WNW	4	c	66	65	8	1	3	-	1	9	2600
13A	Tiree	1019.6	+14	WNW	4	c	63	75	8	6	-	-	9	9	2500
13B	Stornoway	1016.4	+24	WNW	4	c/pr	58	76	8	8	7	-	7-8	9	2600
15	Dalwhinnie	1015.1	+20	W	4	c	54	75	7	5	2	-	4-6	10	2600
	Aberdeen	1016.2	+12	WNW	3	c	63	55	8	8	-	-	9	9	2500
	Wick	1014.6	+22	WNW	4	c	59	75	8	8	7	1	4-6	7-8	1500
16	Lerwick	1011.0	+38	W	5	c	55	92	8	8	7	-	7-8	9+	800
17	Blacksod Point	1022.8	+6	W	2	c	61	85	9	5	-	-	10	10	2500
18	Malin Head	1021.4	+12	NW	4	c	60	75	8	2	8	-	2-3	7-8	5700
	Aldergrove	1022.0	+8	W'N	3	cjp	62	76	9	8	-	-	9+	9+	5700
19	Birr Castle	1023.4	+6	WSW	1	c	59	76	8	6	-	-	9+	9+	2600
20	Valentia Obsy.†	1024.7	+2	SW'W	3	c	64	65	9	7	-	-	9+	9+	4000
	Roches Point	1025.0	+4	W	2	c	61	75	9	8	-	1	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 12th August — 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)	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)	Weather 7h.—13h. 12th (37)	Weather 13h.—18h. 12th (38)	Weather 18h. 12th to 1h. 13th (39)	Weather 1h.—7h. 13th (40)
London (Kew)	1023.0	0	NNW	2	c	67	55	8	3	3	-	1	7-8	4000	0	*	bmobccy	cy	cycbc	bcbmow
Croydon	1022.5	-2	NW	1	c	67	55	8	7	4	-	2-3	7-8	4000	1	*	bc	bcy	bcycmo	bwmo
S. Farnborough	1023.1	0	NW	3	bc	66	65	8	8	-	-	4-6	4-6	4000	0	*	bccbcy	bccyvbc	bcbbc	bmofebc
Boscombe Down	1023.5	-2	NW	2	bc	64	65	8	1	3	-	4-6	4-6	2500	1	*	bmobc	bcbc	bcb	bbcmo
Calshot (Soton.)	1023.0	-2	NW'W	3	bc	67	55	8	7	3	-	1	2-3	4000	1	2	bbcy	bcy	bcyb	bfbw
Lympne	1023.1	+6	W'N	1	c	61	85	8	2	6	1	4-6	9	4000	0	§2	bbcc	cbcyc	cbcw	cbcw
Manston	1022.3	-2	NNW	2	c	65	65	7	2	6	-	Tr	9	4000	0	*	b,c	cbcz	cbcmo	bccmo
Shoeburyness	1022.6	0	NW	2	bc	65	65	8	2	3	-	1	4-6	4000	0	*	bwczoy	czybc	bc	bcbmow
Felixstowe	1022.7	+2	NW	3	c	67	65	8	8	3	-	1	7-8	4000	0	2	bmob,c	cproocy	c	c,bmow
Gorleston	1022.0	0	SE	2	c	63	65	7	8	3	-	4-6	7-8	2500	0	1	bccy	cy	cbc	bcb
Mildenhall	1022.3	0	WNW	2	c	64	65	8	4	6	-	4-6	7-8	4000	0	*	bcmoc	cyc	cbc	mcb wmo
Cranwell	1022.2	0	W'N	2	bc	64	65	7	1	4	4	Tr	2-3	2500	0	*	cmocbcy	bcycbc	bccmo	bccmo
Birmingham	1023.2	0	NW	2	c	61	55	8	4	-	-	9	9	2500	1	*	bc	bcc	cb	b
Upper Heyford	1023.2	0	WNW	1	c	63	65	9	2	3	-	Tr	9	4000	1	*	bcc	c	bc	bcbmo
Ross-on-Wye	1023.4	0	NW'W	3	bc	64	55	9	7	-	-	2-3	2-3	4000	1	*	bcc	cybcy	bvbcb	bmwbc
Hartland Point	1024.6	-2	WNW	2	bc	60	75	8	2	4	-	2-3	4-6	1500	0	2	bc	bc	bc	bc
Bristol	1023.9	-2	W	3	c	61	75	8	5	-	-	7-8	7-8	7200	1	*	bbcc	cbc	cbcbw	bbcw
Portland Bill	1023.9	-6	W,	2	bc	62	85	8	1	-	-	2-3	2-3	4000	1	2'	bc	bc	b	bcc
Plymouth	1024.2	0	NW'N	4	bc	63	65	9	1	-	1	2-3	2-3	4000	0	1	bcmocbc	bc	bcb	bw
The Lizard	1025.1	-4	W'S	2	bc	61	75	8	8	-	-	2-3	2-3	2500	1	1	bc	bc	bcw	bc
Scilly (St. Mary's)	1025.4	-6	N'W	2	bc	63	85	8	4	4	-	1	2-3	2500	0	2	bc	bc	bbcc	cbc
Guernsey	1024.4	-8	NW	2	bc	60	85	8	1	-	-	2-3	2-3	2500	0	1	bc	bc	bcbw	bw
Pembroke	1024.9	-2	W'N	3	bc	60	85	8	3	7	-	1	2-3	2500	0	2	cbc	bc	bcw	bc
Holyhead	1023.3	0	SW	3	c	60	75	9	5	-	-	9+	9+	5700	1	1	bcc	bcc	cb	bw
Chester (Sealand)	1023.4	+6	NW'W	3	bc	62	65	8	5	3	-	2-3	4-6	4000	0	*	c	bc	bbcw	bcw
Manchester	1023.0	+6	WNW	4	bc	61	65	8	2	3	9	2-3	4-6	4000	1	*	bcc	cbc	cbccmow	bccmow
Spurn Head	1021.7	0	NW'N	4	c/pr	63	75	7	9	8	-	4-6	9	800	1	2	bcc	cpro	cbc	bc
Catterick	1020.9	+2	W	3	bc	63	65	9	5	4	1	4-6	4-6	4000	1	*	cbc	cprobc	bc	bcb
Tynemouth	1019.6	+4	W	4	c/pr	62	65	7	8	-	-	7-8	7-8	1500	1	1	bc	bccpo	cbcc	cbc
St. Abbs Head	1018.8	+8	WNW	5	bc	61	55	9	7	3	-	2-3	4-6	2500	0	3	cbcy	bcy	c	cbc
Leuchars	1019.1	+12	WSW	3	bc	65	55	9	5	3	-	4-6	4-6	4000	0	*	bccbcy	bccbcy	bcw	bcbw
Renfrew (Abbotsl.)	1021.5	+14	WNW	3	c	59	65	9	7	6	-	9	9+	2500	0	*	cprobcpro	ycbcybc	cbcmow	bccmow
Eskdalemuir	1021.1	+12	W'N	3	c	57	65	8	5	-	-	7-8	7-8	2500	1	*	cropro	bcvbc	bcbw	bw
Point of Ayre	1022.7	+4	NW	1	c	60	85	8	5	-	-	9+	9+	4000	0	1	cproc	cv	cbcbw	b
Tiree	1020.9	+6	W	2	c	58	75	8	5	3	-	4-6	7-8	4000	0	2	circ	cbc	c	c
Stornoway	1018.9	+12	W	5	c	56	85	7	5	7	-	4-6	10	2600	1	3	cPR	cpro	cpro	c
Dalwhinnie	*	+18	W	3	c	53	75	7	5	2	-	2-3	10	2600	0	*	ciro	c	c	ciro
Aberdeen	1019.0	+18	NW'W	2	c/pr	58	85	8	8	6	-	9	9	1500	1	1	cbcjp	cpro	c	cbcw
Wick	1017.3	+20	WNW	4	c	58	75	8	5	7	1	7-8	9	1500	1	2	PRpr	c	cbcc	c
Lerwick	1015.1	+10	W'N	5	rr	53	92	7	6	2	-	7-8	10	800	1	*	cpr	cprorr	crr	c
Blacksod Point	1022.5	-2	W	2	c	60	75	9	5	-	-	9	9	4000	0	2	c	bc	ido r	dr
Malin Head	1022.2	+4	W	3	c	59	75	8	5	5	-	4-6	7-8	5700	0	3	cbcc	cbcc	cbc	e
Aldergrove	1022.2	+2	NNW	2	c	61	65	8	8	-	-	9	9	5700	1	*	bcproev	cvproe	c	e
Birr Castle	1023.1	-4	W	1	c	63	75	8	4	4	-	7-8	7-8	1500	1	*	c	c	c	c
Valentia Obsy.†	1024.1	-6	SSW	4	c	62	85	8	5	-	-	9+	9+	7600	0	1	cbcc	cproc	c	c
Roches Point	1023.8	-4	W	3	c	62	85	9	8	-	-	7-8	7-8	2500	1	2	c	c	c	cproc

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.

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.*

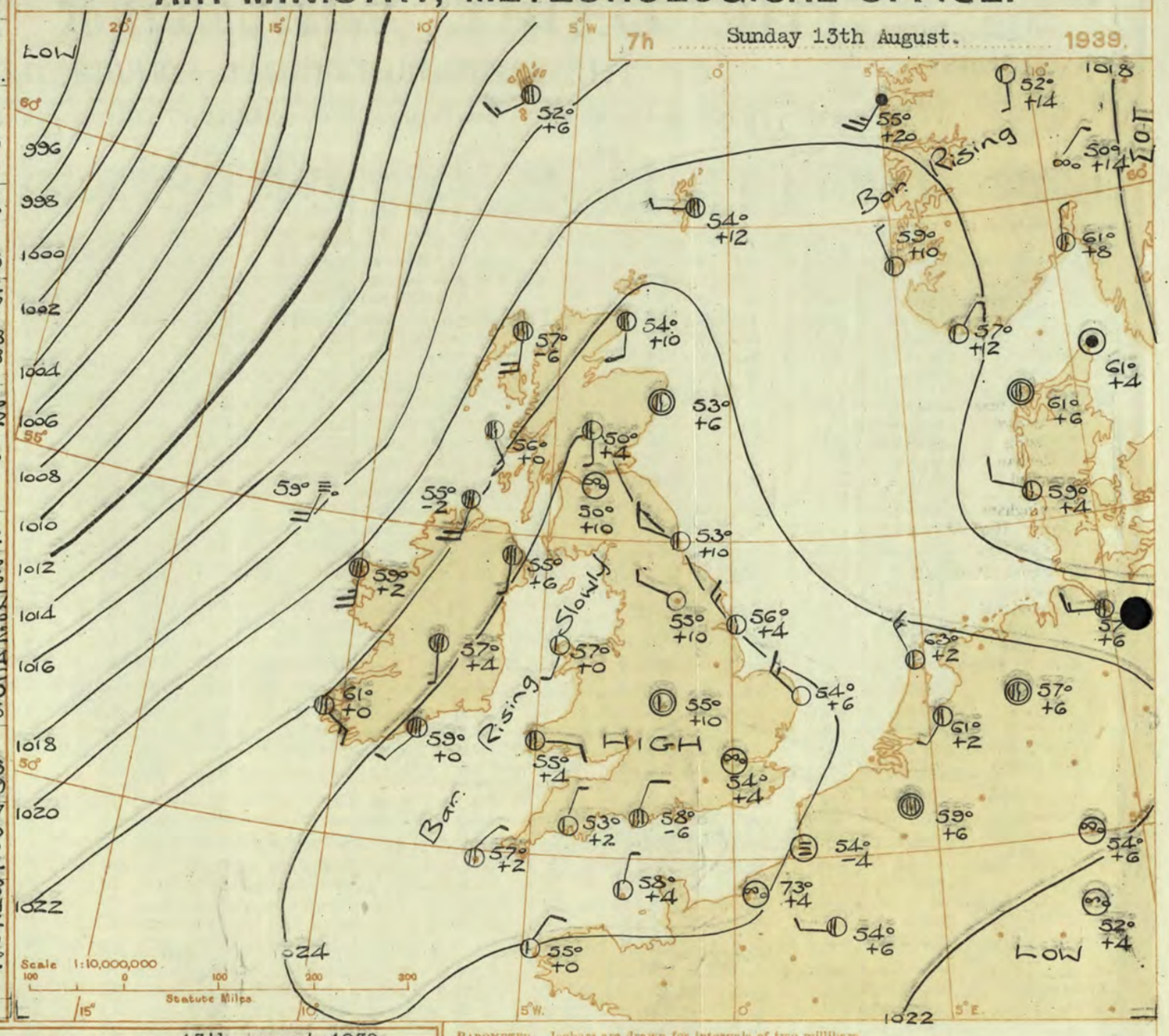
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 12th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 11th to 9h. 12th	Temperature. (°F) Max. 9h.—17h. 12th	Rainfall. (mm.) Night. 17h. 11th to 9h. 12th	Rainfall. (mm.) Day. 9h.—17h. 12th	Sunshine. (Hrs.) Sunrise to 17h. 12th	Sunshine. (Hrs.) Sunrise to Sunset. 11th
1	Tunbridge W.	bbc	bcbbc	44	71	-	-	10.5	12.1
	Bournemouth	bbc	bcbc	50	69	-	-	7.5	12.0
	Ventnor ...	b	b	54	65	-	-	11.5	12.9
	Southsea ...	bcb	b	52	71	-	-	10.8	11.7
	Bognor Regis	b	bbc	49	67	-	-	9.9	11.8
	Littlehampton	bbc	bc	48	66	-	-	9.3	12.6
	Worthing ...	bbc	bcb	50	69	-	-	10.3	11.8
	Brighton ...	b	b	52	67	-	-	10.1	11.0
	Eastbourne† ...	b	b	53	68	-	-	12.0	12.1
	Hastings† ...	bbcb	bcbbc	50	68	Trace	-	10.3	11.5
	Folkestone ...	bbc	bc	54	68	-	-	10.1	8.2
	Dover ...	bc	bc	52	67	-	-	9.4	8.7
	Deal	bbcc	cbc	51	69	-	-	7.1	9.1
	Ramsgate ...	b	bc	53	69	-	-	9.9	8.3
	Margate ...	bc	bc	52	70	-	-	10.3	9.3
2	Southend ...	b	bcbc	52	75	-	-	10.2	10.1
	Clacton-on-Sea	bbc	bcbc	52	69	-	-	8.0	8.6
	Dovercourt ...	bc	bc	51	68	-	-	8.1	10.2
	Lowestoft ...	bbcc	cbcc	49	69	-	-	5.3	10.1
	Skegness ...	bbco	ocbcb	49	68	-	-	8.0	6.7
	Mablethorpe...	bcbbc	cbcy	50	68	-	-	8.4	7.7
	Cleethorpes ...	bc	bcubc	50	66	-	-	7.3	7.2
3	Leamington S.	bcc	bcc	50	68	-	-	5.2	11.7
4	Cheltenham†	wbcc	c	50	68	-	-	6.3	11.2
5	Bath	bcc	bcb	51	68	-	-	9.5	11.6
	Weymouth ...	b	b	51	67	-	-	11.7	11.6
	Jersey ...	bc	bc	55	67	-	-	9.3	12.1
	Torquay ...	wbbcc	cbcv	52	67	-	-	7.2	9.6
	Falmouth ...	b	b	53	66	-	-	10.1	10.2
	Penzance ...	bcb	b	53	68	-	-	9.8	9.4
	St. Ives ...	b	b	55	64	-	-	9.8	10.0
	Bude... ...	bc	bc	59	63	-	-	10.0	10.0
	Ilfracombe ...	bc	bc	58	65	-	-	8.7	11.5
6	Aberystwyth	cbc	bcc	57	63	-	-	9.0	9.7
7	Llandudno ...	cbc	bc	55	65	-	-	8.3	11.2
	Colwyn Bay...	bccbc	ccbbc	54	64	-	-	7.3	10.3
	Rhyl	bccn	cbcb	55	64	-	Trace	8.4	9.9
8	Wallasey ...	bc	bcb	56	64	-	-	7.9	10.7
	Southport ...	bccbc	bcbv	56	65	-	-	6.8	12.3
	Blackpool ...	cbc	bccbc	57	63	-	-	6.6	9.0
	Morecambe ...	bcb	bc	57	63	-	-	4.6	7.4
9	Ilkley... ...	bc	bc	51	67	-	-	6.0	7.8
	Harrogate ...	cbc	bc	48	65	-	-	6.2	9.1
10	Berwick-on-T.	bc	cbc	52	66	-	-	7.9	8.4
11	Dunbar ...	cm	bc	51	65	-	-	9.2	7.0
12	Troon... ...	cbcc	cco	54	62	2	-	2.9	7.2
	Douglas ...	bc	bc	53	63	1	-	3.9	5.1

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 13th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind variable, light; fine; rather warm.
13 A. W. Scotld. B.N.W.Scotland.	Wind southerly, moderate, strong at times; cloudy, occasional rain or drizzle; average temperature.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind southerly, light to moderate; fair; warmer.
17 N. W. Ireland	As 13.
18 N. E. Ireland	As 14 - 16.
19 S. E. Ireland	
20 S. W. Ireland	As 13.

GENERAL INFERENCE.

An anticyclone over the British Isles and a depression southwest of Iceland are both moving northeast. There will be occasional rain in western districts of Ireland and Scotland but elsewhere it will be fine and rather warm.

FURTHER OUTLOOK.

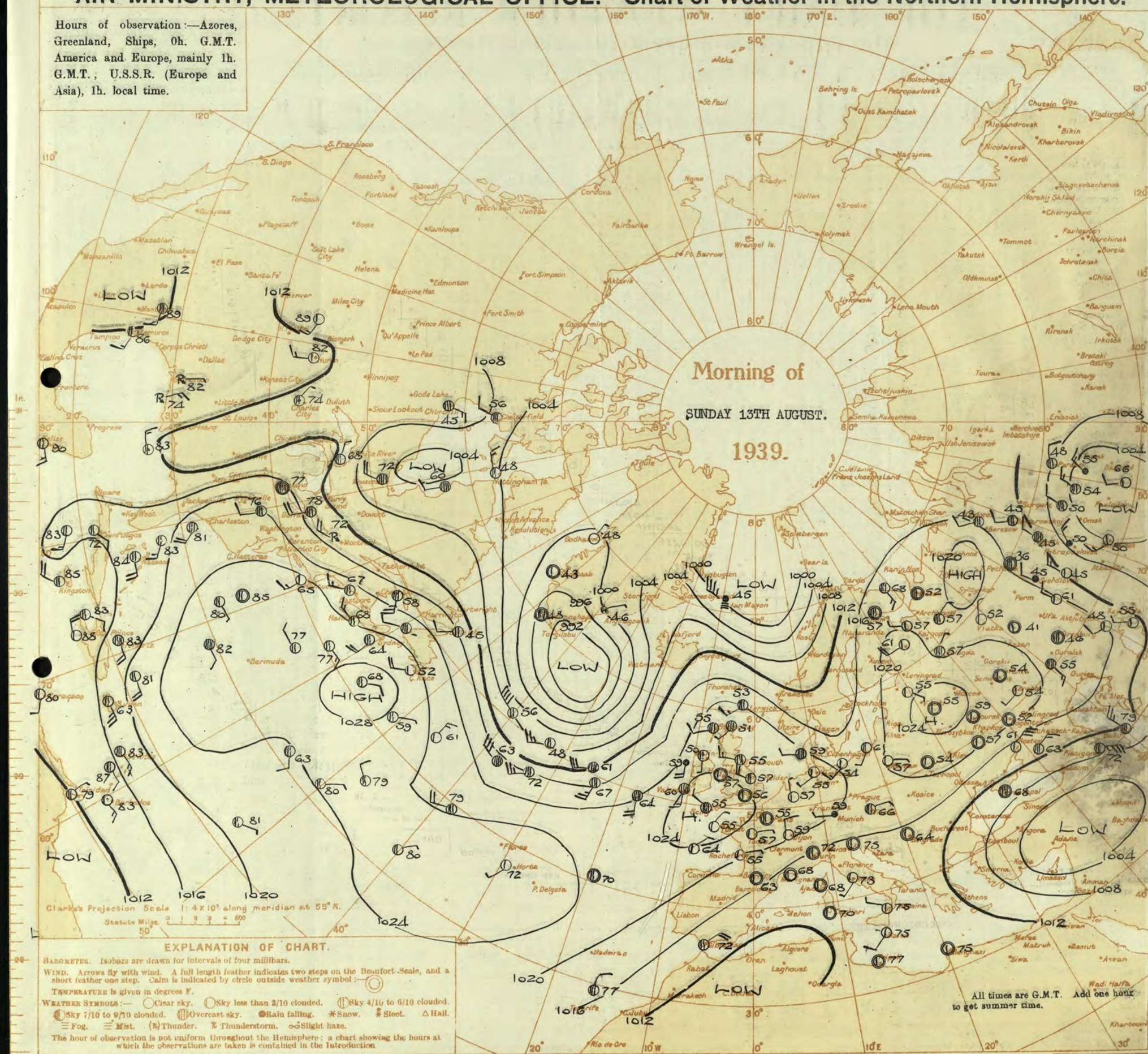
Continuing fine in most districts.

Forecasts issued at 1100 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

Sunday 13th August, 1939

No. 28388

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

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	1024.0	+4	–	0	b	56	85	6	4	–	–	Tr	Tr	7200
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1023.6	+2	N	2	c	57	85	7	5	–	–	7-8	7-8	4000
	Manston ...	154	1023.5	+2	–	0	c	57	85	6	5	–	–	7-8	7-8	4000
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1023.0	+2	W'N	2	bc	56	86	7	5	–	–	2-3	2-3	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024.9	0	N	2	bc	58	75	9	5	–	–	2-3	2-3	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1025.5	+6	NNW	2	b	56	92	8	–	–	–	0	0	–
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1026.0	0	NW	2	bc	53	97	8	7	–	1	2-3	2-3	4000
	Scilly (St.Mary's)	163	1026.0	0	NW	1	c	55	92	8	5	–	–	10	10	2500
	Guernsey ...	175	1026.4	-2	NW	1	b	56	92	8	–	–	–	0	0	–
6	Pembroke ...	142	1025.1	+2	NW	2	bc	57	92	8	5	–	–	2-3	2-3	2500
7	Holyhead ...	26	1024.0	0	–	0	b	57	76	8	5	4	–	1	1	4000
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1023.0	+4	NW	4	bc	57	88	7	–	4	–	0	2-3	–
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1021.5	+8	W	3	c	55	76	7	2	–	–	7-8	7-8	1500
11	St. Abbs Head	280	1021.6	+12	WNW	4	c	55	65	8	7	0	–	4-6	7-8	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1023.9	+4	–	0	b	48	97	8	–	4	–	0	Tr	–
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1021.1	+4	WSW	2	c	55	86	7	8	7	–	4-6	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1021.0	+8	SW	2	c	51	97	9	5	7	–	4-6	9	1500
16	Lerwick ...	156	1019.0	+20	WSW	3	c	53	82	8	6	7	–	4-6	9	1500
17	Blacksod Point	18	1021.5	-4	S	4	dr	59	97	6	6	–	–	10	10	450
18	Malin Head ...	84	1023.2	-2	S	1	bc	50	95	8	5	–	–	2-3	2-3	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1023.4	-2	S	3	0	60	86	7	5	–	–	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1028.2	+8	–	0	2o	55	85	6	–	–	1	0	Tr	–	0	*
Croydon ...	1024.8	+4	–	0	2o	54	92	6	–	4	–	0	Tr	–	1	*
S. Farnborough	1026.5	+10	–	0	bf	49	97	6	–	–	9	0	1	–	0	*
Boscombe Down	1025.3	+6	–	0	2o	51	92	6	5	4	9	2-3	4-6	4000	1	*
Calshot (Sthmtn.)	1024.7	+6	NNW	2	2o	56	85	7	7	4	1	Tr	2-3	4000	1	1
Lympne ...	1024.0	+4	N'E	3	bc	57	85	6	5	3	–	2-3	2-3	4000	0	§2
Manston ...	1024.2	+6	N	2	2o	60	85	6	5	3	–	7-8	9+	5700	0	*
Shoeburyness...	1024.5	+6	N'W	2	b	57	85	6	–	3	–	0	Tr	–	0	*
Felixstowe ...	1024.4	+8	N	2	2o	55	85	6	–	4	4	0	2-3	–	0	1
Gorleston ...	1024.5	+6	NW'N	3	b	54	86	7	–	–	–	0	0	–	0	1
Mildenhall ...	1024.7	+8	NW'N	1	2o	53	92	6	–	3	–	0	1	–	1	*
Cranwell ...	1024.7	+8	NW'N	1	2o	55	85	5	–	3	–	0	9+	–	1	*
Birmingham ...	1025.5	+10	–	0	b	55	85	6	–	7	3	0	1	–	1	*
Upper Heyford	1025.2	+6	NW'W	2	7o	54	85	6	5	4	1	1	1	7200	1	*
Ross-on-Wye	1025.8	+4	WSW	1	fg	47	97	8	5	–	–	1	1	4000	1	*
Hartland Point	1026.0	+6	NE	2	bc	59	85	9	1	–	1	1	2-3	2500	0	2
Bristol ...	1025.8	+12	–	0	c	49	92	7	5	–	–	7-8	7-8	5700	1	*
Portland Bill ...	1024.7	-6	NNE	2	c	58	85	8	1	–	1	4-6	7-8	4000	1	3
Plymouth ...	1025.1	+2	NNE	1	b	53	86	8	–	–	1	0	Tr	–	0	0
The Lizard ...	1025.0	0	N	2	bc	55	92	8	7	4	–	2-3	2-3	4000	1	1
Scilly (St.Mary's)	1025.2	+2	NE'E	1	bc	57	92	8	2	4	3	1	2-3	2500	0	1
Guernsey ...	1024.3	+4	N'E	1	b	58	92	8	–	1	–	0	1	–	1	2
Pembroke ...	1025.6	+4	E	2	bc	55	97	8	5	4	–	2-3	2-3	2500	0	1
Holyhead ...	1024.5	0	S'W	1	b	57	97	9	2	–	4	Tr	Tr	4000	1	0
Chester(Sealand)	1025.3	+10	–	0	bc	54	92	8	8	3	–	2-3	4-6	4000	0	*
Manchester ...	1025.2	+6	–	0	2o	55	92	6	8	3	–	1	7-8	2500	1	*
Spurn Head ...	1024.1	+4	NW'N	3	bc	56	85	6	–	4	–	0	2-3	–	0	2
Catterick ...	1024.6	+10	WNW	1	b	55	75	8	–	–	–	0	0	–	1	*
Tynemouth ...	1024.0	+10	WNW	2	bc	53	85	8	1	3	1	2-3	2-3	2500	1	1
St. Abbs Head	1023.6	+18	WNW	1	bc	55	75	9	7	4	–	4-6	4-6	2500	0	1
Leuchars ...	1023.4	+10	SW	2	bc	53	85	9	5	–	5	1	2-3	4000	0	*
Renfrew (Abbots L.)	1024.4	+10	–	0	2o	50	92	6	5	–	–	9	9	4000	0	*
Eskdalemuir ...	1024.9	+6	–	0	b	45	85	8	5	–	1	1	1	2500	1	*
Point of Ayre...	1024.4	+4	–	0	b	57	86	8	–	4	1	0	1	–	0	0
Tiree	1021.6	0	SSE	3	c	56	85	8	5	–	–	9	9	2500	0	2
Stornoway ...	1020.5	-6	S	4	c	57	75	8	5	5	–	4-6	7-8	4000	1	2
Dalwhinnie ...	1024.0	+4	S	1	bc	50	85	8	–	4	4	0	4-6	–	1	*
Aberdeen ...	1023.5	+6	–	0	bc	53	92	8	5	3	–	2-3	4-6	4000	1	1
Wick ...	1022.4	+10	S	2	c	54	85	9	5	7	–	7-8	9	2500	1	1
Lerwick ...	1020.8	+12	W	1	c	54	92	7	5	7	–	7-8	9+	1500	1	*
Blacksod Point	1020.7	+2	S	5	c	59	97	7	8	–	–	10	10	450	1	3
Malin Head ...	1021.7	-2	SW	4	c/pr	55	97	6	8	–	–	9+	9+	1500	0	3
Aldergrove ...	1023.6	+6	S	1	c	55	86	8	5	7	–	2-3	9+	4000	1	*
Birr Castle ...	1023.3	+4	S	1	c	57	92	8	5	1	–	7-8	10	1500	1	*
Valentia Obsy. †	1023.1	0	SE'S	3	c	61	85	8	5	–	–	9	9	1500	0	1
Roches Point	1024.2	0	SW	1	c	59	97	8	8	–	–	7-8	7-8	1500	1	0

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 12h Hrs. (36)
London (Kew)	63	50	39	–	Tr	8.9
Croydon ...	71	49	43	–	–	10.4
S. Farnborough	70	41	37	–	–	10.0
Boscombe Down	68	47	43	–	Tr	11.2
Calshot (Sthmtn.)	69	50	46	–	–	8.8
Lympne ...	69	54	52	–	–	8.7
Manston ...	67	56	50	–	–	8.4
Shoeburyness...	71	55	52	–	–	8.8
Felixstowe ...	70	51	49	Tr	–	7.8
Gorleston ...	67	53	50	–	–	5.5
Mildenhall ...	69	45	40	–	Tr	7.6
Cranwell ...	66	49	47	–	–	7.4
Birmingham ...	66	48	35	–	–	6.9
Upper Heyford	67	50	45	–	–	*
Ross-on-Wye	67	42	37	–	–	9.1
Hartland Point	64	54	49	–	–	11.7
Bristol ...	66	46	35	–	–	9.9
Portland Bill ...	63	56	*	–	–	*
Plymouth ...	66	48	40	–	–	8.8
The Lizard ...	65	51	*	–	–	13.3
Scilly (St.Mary's)	65	53	*	–	–	11.9
Guernsey ...	64	53	44	–	–	13.9
Pembroke ...	62	53	*	–	–	8.2
Holyhead ...	64	52	45	–	–	7.7
Chester(Sealand)	63	50	43	–	–	10.0
Manchester ...	65	52	49	–	–	8.1
Spurn Head ...	67	55	*	Tr	–	6.2
Catterick ...	66	44	37	Tr	–	*
Tynemouth ...	66	53	49	Tr	–	8.6
St. Abbs Head	63	53	*	–	–	*
Leuchars ...	67	48	41	–	–	9.4
Renfrew (Abbots L.)	64	41	35	0.6	–	4.0
Eskdalemuir ...	62	36	31	Tr	–	6.5
Point of Ayre...	67	44	*	Tr	–	4.8
Tiree	62	45	40	Tr	–	1.8
Stornoway ...	60	50	*	0.6	Tr	2.4
Dalwhinnie ...	57	38	31	0.1	Tr	1.2
Aberdeen ...	66	47	40	0.5	–	4.7
Wick ...	62	48	*	3	–	*
Lerwick ...	57	52	*	1	1	0.1
Blacksod Point	62	53	*	–	*	*
Malin Head ...	61	48	*	–	0.3	2.2
Aldergrove ...	64	47	40	0.2	–	2.8
Birr Castle ...	63	52	41	–	–	2.6
Valentia Obsy. †	65	59	56	Tr	–	1.9
Roches Point	63	57	*	–	0.1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset. hrs. Yesterday.	Humidity 15h. G.M.T. % Yesterday.	Humidity 9h. G.M.T. % To-day.	Visibility 9h. To-day.
KEW...	18	bmybccy	cycbc	bcbmw	69	50	39	–	Tr	8.9	•	•	7
CROYDON	217	bcbcy	bcycmo	bwmo	71	49	43	–	–	10.4	•	•	6
GREENWICH (Royal Observatory)...	149	bbc	c	cbw	70	51	39	–	Tr	9.2	58	62	7
CITY (Gunhill Row)	—	•	•	•	•	•	•	•	•	9.3	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	70	54	48	–	–	8.6	67	69	•
REGENTS PK. (Botanic Gardens)‡...	168	•	•	•	70	51	42	–	–	8.6	60	64	•
CAMDEN SQUARE	110	bc	bc	•	70	53	47	–	–	•	•	61	•
KENSINGTON	80	bc	bc	•	71	51	43	–	–	8.8	At 18h 59	60	•
HAMPSTEAD OBSERVATORY	450	bc	bc	b	69	52	51	–	–	•	•	67	•

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
<0.3 whole period			

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.2	3h 13th	<0.1	12-15h 12th

FOREIGN OBSERVATIONS.

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

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS					
BRUSSELS	1022.3	W'S	2	c	64
BERLIN	1019.8	N	4	bc	68
ZURICH	1019.1	NNW	2	u	72
ROME	1013.5	NE'N	3	b	93

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

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1023.7	W	1	bc	54
BRUSSELS	1023.5	–	0	c	53
BERLIN	1020.5	WSW	1	bc	63
ZURICH	1019.6	NE	1	c	61
ROME	1014.4	–	0	fg	70

Past 24 Hours.

Stations.	Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
PARIS				
BRUSSELS	72	52	–	–
BERLIN	73	50	–	–
ZURICH	73	55	0.2	–
ROME	79	59	–	–
	*	*	–	–

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 Precipitous.
4 Rough.	9 Confused.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 14th August, 1939.
No. 28389

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

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)...	1025.5	0	NE'N	2	c	67	45	8	7	–	–	9	9	4000
	Croydon	1024.8	–2	–	0	c	67	45	8	4	–	–	9	9	7200
	S. Farnborough	1025.4	0	WNW	1	c	68	45	8	7	–	–	7-8	7-8	4000
	Boscombe Down	1025.6	–2	ENE	2	c	67	45	8	7	–	–	7-8	7-8	4000
	Calshot (Soton.)	1025.2	–2	SE	2	c	71	55	8	4	3	–	4-6	7-8	2500
	Lympne ...	1025.3	+2	SE'E	2	c	63	75	7	7	–	–	7-8	7-8	4000
	Manston ...	1025.4	+2	N	2	bc	66	65	6	2	4	–	1	2-3	2500
2	Shoeburyness ...	1025.1	–2	SE'S	2	c	67	65	8	2	–	–	7-8	7-8	4000
	Felixstowe ...	1025.1	0	SE	2	c	67	65	8	8	6	–	7-8	9	4000
	Gorleston ...	1025.0	+4	NNE	3	c	64	75	7	7	3	–	4-6	7-8	2500
	Mildenhall ...	1025.1	–2	N	2	bc	65	45	8	1	6	–	2-3	4-6	4000
	Cranwell ...	1025.0	+2	WNW	1	c	67	55	8	7	–	–	7-8	7-8	4000
3	Birmingham ...	1025.8	0	W	1	c	63	55	7	8	–	–	7-8	7-8	4000
	Upper Heyford	1025.7	0	WNW	1	c	67	55	8	8	3	–	4-6	9+	2500
4	Ross-on-Wye ...	1025.5	0	E	2	bc	66	55	9	1	–	1	4-6	4-6	4000
5	Hartland Point	1026.0	+4	ENE	2	bc	61	75	8	2	4	1	2-3	2-3	2500
	Bristol	1026.0	0	–	0	bc	65	55	9	7	4	–	4-6	4-6	4000
	Portland Bill ...	1026.4	+10	E	2	c	65	85	8	5	–	–	4-6	7-8	4000
	Plymouth ...	1025.5	+2	S'W	3	bc	65	75	9	4	–	–	4-6	4-6	4000
	The Lizard ...	1025.7	+2	E'S	2	bc	66	75	8	2	4	–	2-3	2-3	2500
	Scilly (St. Mary's)	1026.0	+2	ENE	2	bc	67	85	8	1	4	6	Tr	2-3	4000
	Guernsey ...	1024.9	0	N	2	bc	64	65	8	1	1	–	2-3	2-3	2500
6	Pembroke ...	1026.5	+4	WSW	2	c	63	85	8	5	7	–	4-6	7-8	2500
7	Holyhead ...	1025.4	+8	SSW	4	c	63	75	9	1	3	6	Tr	9	4000
	Chester (Sealand)	1025.3	–2	–	0	c	67	65	8	8	–	1	7-8	7-8	2500
8	Manchester ...	1025.4	0	WSW	2	bc	65	55	8	7	3	6	2-3	4-6	5700
10	Spurn Head ...	1025.8	+2	E'N	2	bc	63	75	7	5	–	–	4-6	4-6	2500
	Catterick ...	1024.8	–2	–	0	bc	65	55	8	5	–	2	4-6	4-6	2500
	Tynemouth ...	1024.7	+4	E	3	bc	61	75	8	2	–	1	2-3	2-3	2500
11	St. Abbs Head...	1024.3	0	E	1	bc	59	75	9	2	6	1	2-3	4-6	2500
	Leuchars ...	1023.9	+2	W	3	c	65	45	9	5	3	6	4-6	7-8	4000
12	Renfrew (Abbotsl.)	1024.5	+4	WSW	3	c	65	55	9	7	7	–	4-6	9+	4000
	Eskdalemuir ...	1024.6	+2	SW'W	3	bc	61	55	8	7	–	6	4-6	4-6	4000
	Point of Ayre ...	1024.9	+4	–	0	c	62	75	8	5	3	–	7-8	9+	2500
13A	Tiree	1021.8	+2	SSE	4	c	58	92	8	5	–	–	9+	9+	2500
13B	Stornoway ...	1021.3	–2	S	5	pr	57	85	8	5	7	–	4-6	10	2500
15	Dalwhinnie ...	*	0	W	3	c	60	65	8	5	2	–	2-3	10	2500
	Aberdeen ...	1024.1	0	SSE	3	bc	62	65	8	7	–	6	1	2-3	2500
	Wick	1022.8	+4	SSE	3	bc	59	85	8	5	8	9	2-3	4-6	2500
16	Lerwick... ...	1021.2	+2	WSW	4	c	57	75	8	5	7	–	7-8	9	1500
17	Blacksod Point...	1021.2	+2	S	6	c	63	85	8	5	–	–	10	10	450
18	Malin Head ...	1021.7	+2	S	3	c	67	75	8	8	–	4	7-8	7-8	5700
	Aldergrove ...	1023.5	–2	S	2	c	66	75	8	7	7	–	7-8	9+	1500
19	Birr Castle ...	1023.4	0	S	2	c	76	75	8	8	1	–	7-8	10	1500
20	Valentia Obsy.†	1024.2	+6	S	4	o/d	63	92	7	5	–	–	10	10	450
	Roches Point ...	1025.4	+8	SW'S	2	c	64	85	9	7	–	–	7-8	7-8	2500

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

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)	1025.8	–2	NE	2	bc	69	45	8	7	–	9	4-6	4-6	4000	0	*
Croydon	1025.2	+2	–	0	c	66	55	8	4	4	1	4-6	7-8	7200	1	*
S. Farnborough	1025.2	0	ENE	2	c	66	55	8	4	–	1	7-8	7-8	5700	0	*
Boscombe Down	1025.3	–4	–	0	bc	64	65	8	7	3	8	4-6	4-6	4000	0	*
Calshot (Soton.)	1024.8	–2	SW'W	1	bc	68	65	8	4	3	2	4-6	4-6	4000	0	1
Lympne	1025.5	+2	ENE	2	bc	62	75	8	1	4	–	Tr	2-3	4000	0	§1
Manston	1025.5	+2	NE'E	2	b	63	65	8	–	3	–	0	1	–	0	*
Shoeburyness	1025.4	+2	E'S	3	c	63	65	8	4	3	–	2-3	7-8	4000	0	*
Felixstowe	1025.7	+2	SE	2	c	62	75	8	5	6	–	7-8	7-8	4000	0	1
Gorleston	1025.6	+4	NNE	3	b	63	65	7	7	–	–	1	1	2500	0	1
Mildenhall	1025.2	0	N	1	c	65	55	8	8	–	–	7-8	7-8	5700	0	*
Cranwell	1024.8	–2	–	0	c	65	75	7	5	2	–	4-6	9+	4000	1	*
Birmingham	1025.3	–2	NNW	2	bc	66	45	8	–	6	6	0	4-6	–	1	*
Upper Heyford	1025.4	–2	–	0	bc	66	55	8	8	3	1	1	4-6	4000	0	*
Ross-on-Wye	1024.8	–4	E'S	1	bc	67	55	9	1	–	1	1	4-6	4000	0	*
Hartland Point	1025.1	–4	SE	3	bc	61	85	8	1	–	2	1	2-3	2500	0	2
Bristol	1025.4	–4	NNE	2	bc	67	55	8	7	–	1	4-6	4-6	4000	0	*
Portland Bill	*	*	NNW	2	bc	63	85	8	5	–	–	4-6	4-6	4000	1	2
Plymouth	1025.0	–4	SSW	1	bc	62	75	9	4	–	1	2-3	2-3	4000	0	0
The Lizard	1024.9	–4	–	0	bc	64	65	8	7	4	–	2-3	2-3	4000	0	1
Scilly (St. Mary's)	1025.3	–4	NE'E	3	b	61	85	8	1	–	1	1	1	4000	0	1
Guernsey	1024.4	–4	N	2	b	62	75	7	–	–	1	0	Tr	–	0	1
Pembroke	1025.5	–4	NW'N	3	bc	62	85	9	–	7	2	0	4-6	–	0	1
Holyhead	1025.2	–2	SSW	3	c	62	75	9	1	–	6	Tr	7-8	4000	0	1
Chester (Sealand)	1025.4	–2	NNW	1	c	65	65	9	2	–	6	Tr	7-8	4000	0	*
Manchester	1025.3	–2	NW	2	bc	64	55	8	–	–	4	0	4-6	–	0	*
Spurn Head	1025.9	+2	SE'E	2	bc	60	85	6	–	8	–	0	4-6	–	0	1
Catterick	1024.4	–4	SW'W	1	c	68	55	8	5	–	–	7-8	7-8	4000	1	*
Tynemouth	1024.7	0	SE	2	bc	59	85	8	8	3	2	2-3	4-6	2500	1	1
St. Abbs Head	1023.8	–8	SE	4	c	57	85	8	4	6	–	4-6	7-8	2500	0	2
Leuchars	1023.7	+2	SSE	2	c	61	75	8	5	7	–	7-8	9	5700	0	*
Renfrew (Abbotsl.)	1024.4	+2	W'N	2	id$_0$	63	85	8	5	7	–	9	10	2500	0	*
Eskdalemuir	1024.5	0	SW	3	c	60	75	8	5	7	6	2-3	9+	4000	1	*
Point of Ayre	1024.9	–4	SSE	1	c	62	85	8	–	–	9	0	9+	–	0	0
Tiree	1021.3	–2	SSE	4	c	59	75	8	5	–	–	9+	9+	2500	0	3
Stornoway	1020.7	–6	S	5	pr	57	97	6	5	2	–	9	10	1500	1	3
Dalwhinnie	1023.4	+4	W	4	c	58	85	8	5	6	–	7-8	10	2500	0	*
Aberdeen	1023.6	–4	S'E	4	bc	58	75	8	–	3	6	0	2-3	–	0	1
Wick	1022.2	–6	SE	4	c	57	92	8	5	6	9	4-6	7-8	1500	1	1
Lerwick	1021.5	+2	S	3	c	55	85	8	5	7	–	7-8	9	1500	1	*
Blacksod Point	1019.9	0	S	6	c	61	97	7	5	–	–	10	10	<150	0	4
Malin Head	1021.6	–2	S	1	c	68	75	8	2	6	–	4-6	9	5700	0	2
Aldergrove	1023.2	0	S	2	c	68	75	8	5	–	–	9	9	4000	1	*
Birr Castle	1023.1	–4	S	3	c	70	75	8	5	7	–	7-8	7-8	2500	1	*
Valentia Obsy.†	1023.8	0	SW	4	c	62	92	8	5	–	–	9+	9+	800	1	1
Roches Point	1024.9	–2	SW	2	c	63	85	8	5	3	–	4-6	7-8	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)	bm$_0$bcy	cbcy	bcybw	bbcmw
Croydon	bz$_0$bcy	cbcy	cybym$_0$w	bm$_0$w
S. Farnborough	bycbc	bccbcy	bcbm$_0$w	bwFbc
Boscombe Down	bcm$_0$bc	bc	bcm$_0$	bcbcmw
Calshot (Soton.)	bwbcy	bccbcybc	bccbc	bcf$_g$wbc
Lympne	bc	bc	bw	bwf$_g$cf
Manston	bcm$_0$	bm$_0$by	bbw	bwf$_g$bc
Shoeburyness	bz$_0$bc	bccbc	bcbw	bwm$_0$bc
Felixstowe	bm$_0$b,c	c	cbcb	bwbcm$_0$
Gorleston	bbcc	cbcb	bw	bwbcz$_0$
Mildenhall	bcy	cy	bcbwc	cbcf$_g$c
Cranwell	cm$_0$bbc	bcc	cm$_0$	cbccm$_0$w
Birmingham	b,c	cbc	bcc	cm
Upper Heyford	bbcm$_0$bcc	cbc	bcb	bbcjf
Ross-on-Wye	bcc	bcvy	bc	bcmwcm
Hartland Point	bc	bc	bc	bc
Bristol	bcwbbcy	bcy	bcyb	bbcgfw
Portland Bill	c	cbc	b	bbc
Plymouth	bbc	bcb	b	bwbbm$_0$
The Lizard	bc	bc	bc	bcw
Scilly (St. Mary's)	bc	bc	bcbbc	bcw
Guernsey	bbc	bcb	bw	bbcw
Pembroke	bcc	cbcv	bcw	bcw
Holyhead	b,c⊕	bcc	cbc	cw
Chester (Sealand)	c,bc	bcyc⊕	bcm$_0$mw	bcmfw⊕
Manchester	bcycbcy	bcyby	bcycm$_0$	cmw
Spurn Head	bcc	bcc	cbcw	bccw
Catterick	bbcy	bcycy	cycbc	bcwcw
Tynemouth	bc	bc	bc	bccff
St. Abbs Head	bc	bcc	c	c
Leuchars	bwbcy	bccyc	c	ir$_0$cm$_0$ir$_0$
Renfrew (Abbotsl.)	cbcm$_0$wbcy	cycid$_0$	cid$_0$m$_0$	cmid$_0$cm$_0$
Eskdalemuir	bwbcy	bcycy	ccw	cw
Point of Ayre	bbcc	c	cbcw	c
Tiree	cd$_0$c	cid$_0$	od$_0$r$_0$	odrc
Stornoway	cpr$_0$	cpr	cr$_0$r$_0$	crr
Dalwhinnie	cbc	cir$_0$	•	cir
Aberdeen	bccbc	bcbbc	bcc	cz$_0$ir$_0$
Wick	cbc	bcc	cr$_0$r$_0$	r$_0$cr$_0$
Lerwick	c	c	c	cirif
Blacksod Point	c	cq	cq	cq
Malin Head	c	cbcc	c	c
Aldergrove	ir$_0$c	c	c	c
Birr Castle	c	c	cb	bbcc
Valentia Obsy.†	r$_0$d$_0$d$_0$d	odiDc	c	c
Roches Point	c	c	cbcw	cffc

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.

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.

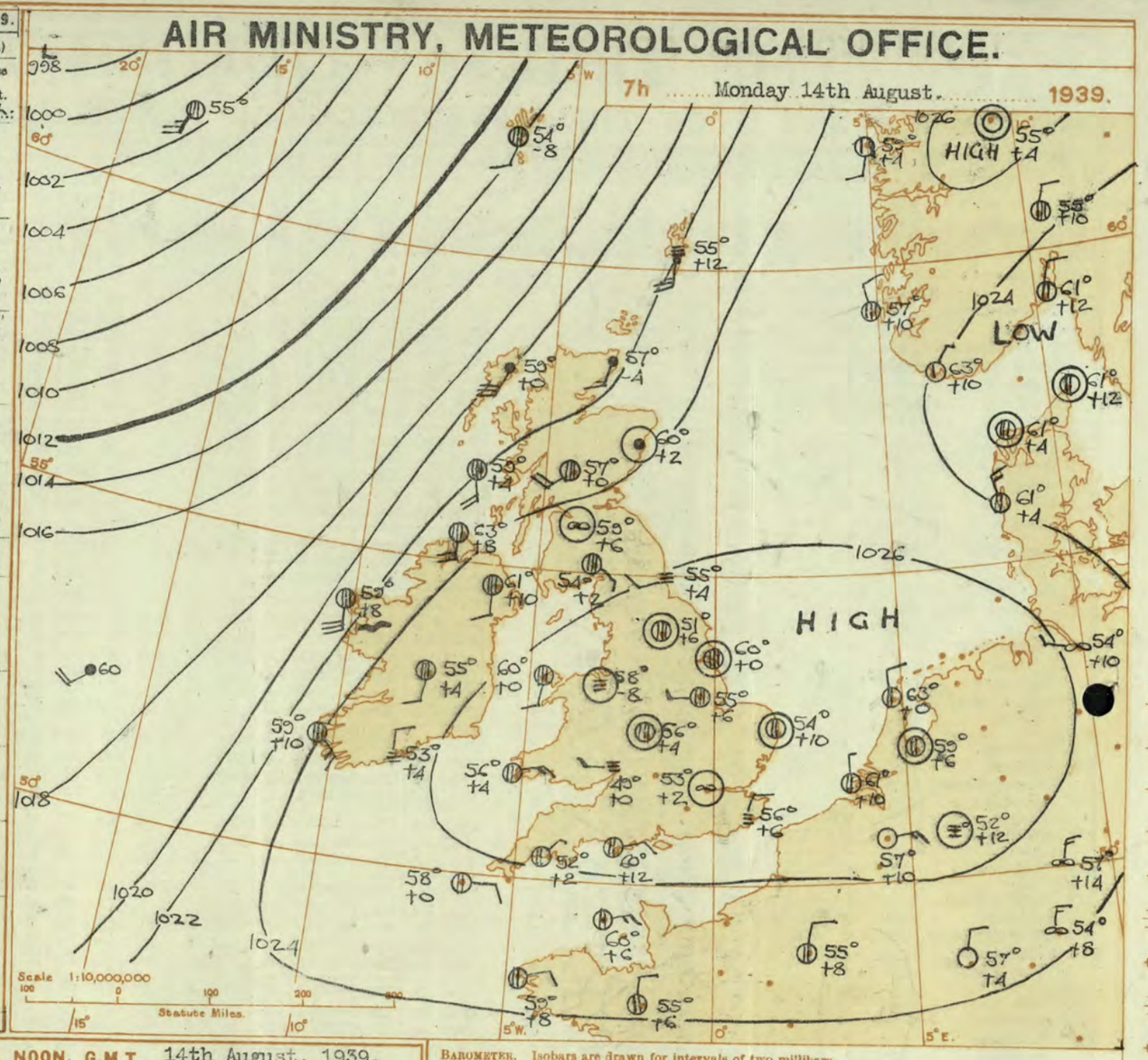
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for August 13th 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 12th. to 9h. 13th.	Temperature. (°F) Max. 9h.—17h. 13th.	Rainfall. (mm.) Night. 17h. 12th. to 9h. 13th.	Rainfall. (mm.) Day. 9h.—17h. 13th.	Sunshine. (Hrs.) Sunrise to 17h. 13th.	Sunshine. (Hrs.) Sunrise to Sunset. 12th.
1	Tunbridge W.	bbc	bccbc	47	71	—	—	8.4	11.5
	Bournemouth	b	bc	48	71	—	—	7.5	9.5
	Ventnor ...	bz	bz	54	61	—	—	11.4	13.1
	Southsea ...	b	bcb	50	71	—	—	9.1	12.4
	Bognor Regis	bc	bcc	53	69	—	—	8.4	11.6
	Littlehampton	bc	bc	52	69	—	—	7.3	9.9
	Worthing ...	bc	bc	56	69	—	—	7.6	11.1
	Brighton ...	bc	bc	56	70	—	—	7.2	11.4
	Eastbourne† ...	bbc	bcc	56	70	—	—	6.7	13.3
	Hastings† ...	bbc	cbc	54	69	—	—	6.3	11.9
	Folkestone ...	bcc	cbcb	56	68	—	—	6.0	10.1
	Dover ...	bc	bcb	57	69	—	—	7.5	9.5
	Deal	bcb	b	54	76	—	—	9.2	7.1
	Ramsgate ...	bc	b	59	67	—	—	9.7	10.1
	Margate ...	bc	bc	60	66	—	—	10.1	10.7
2	Southend ...	b	bbcc	55	71	—	—	6.0	11.2
	Clacton-on-Sea	bbc	bccbc	52	68	—	—	6.4	8.3
	Dovercourt ...	bc	bc	53	69	—	—	7.2	8.5
	Lowestoft ...	bbcc	cbcb	50	66	—	—	7.9	5.6
	Skegness ...	bbc	ocb	46	64	—	—	9.0	8.4
	Mablethorpe...	bbcb	bcb	49	64	—	—	9.5	9.0
	Cleethorpes ...	b	bbcbz	51	67	—	—	11.0	8.0
3	Leamington S.	bcc	bc	46	68	—	—	6.0	5.2
4	Cheltenham†	wbbc	cbc	46	72	—	—	5.6	6.8
5	Bath	bcb	bcc	45	70	—	—	7.9	9.8
	Weymouth ...	bbc	b	52	69	—	—	10.0	13.1
	Jersey ...	bcb	b	52	76	—	—	11.9	11.5
	Torquay ...	wb	by	51	67	—	—	11.3	7.7
	Falmouth ...	b	b	51	67	—	—	11.5	12.2
	Penzance ...	bbc	bcb	50	67	—	—	9.8	11.3
	St. Ives ...	b	b	56	64	—	—	11.1	11.9
	Bude... ...	bc	bc	48	66	—	—	10.7	12.0
	Ilfracombe ...	wbcb	b	50	66	—	—	11.6	10.8
6	Aberystwyth	cbc	bbc	52	65	—	—	10.1	9.0
7	Llandudno ...	b	bbc	53	66	—	—	11.0	9.3
	Colwyn Bay...	bcb	bcbbc	51	64	—	—	10.6	8.1
	Rhyl	bcb	bbc	50	68	—	—	11.4	9.8
8	Wallasey ...	b	b	53	66	—	—	10.3	9.4
	Southport ...	bcbv	bvbcv	53	69	—	—	10.4	7.7
	Blackpool ...	bcb	bbcyv	53	67	—	—	10.6	6.9
	Morecambe ...	b	b	55	66	—	—	11.2	5.0
9	Ilkley... ...	bc	bc	49	70	—	—	9.5	8.4
	Harrogate ...	bbc	bbc	49	69	—	—	7.6	7.5
10	Berwick-on-T.	bbc	bcbbc	47	62	—	—	10.4	9.1
11	Dunbar ...	bc	bcm	47	61	—	—	9.4	11.0
12	Troon... ...	bbcb	coc	49	64	—	—	4.8	2.9
	Douglas ...	bcw	bc	47	64	—	—	6.1	3.9

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 14th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light variable or east wind; fine; local morning fog; warm.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light south wind; fair; local morning fog; warm.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate south wind; mainly fair at first, local rain later; warm.
13 A. W. Scotld. B.N.W.Scotland.	Fresh south wind; occasional rain; rather warm.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Moderate to fresh south wind; local rain; bright intervals; warm.
17 N. W. Ireland	As 13A - 13B.
18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 11 - 12.

GENERAL INFERENCE.

An anticyclone is centred over East England and a trough of low pressure west of Ireland is moving slowly east. Weather will be fine in England and Wales but there will be local rain in Ireland and Scotland.

FURTHER OUTLOOK.

Fair over the southern half of Great Britain; rather unsettled elsewhere.

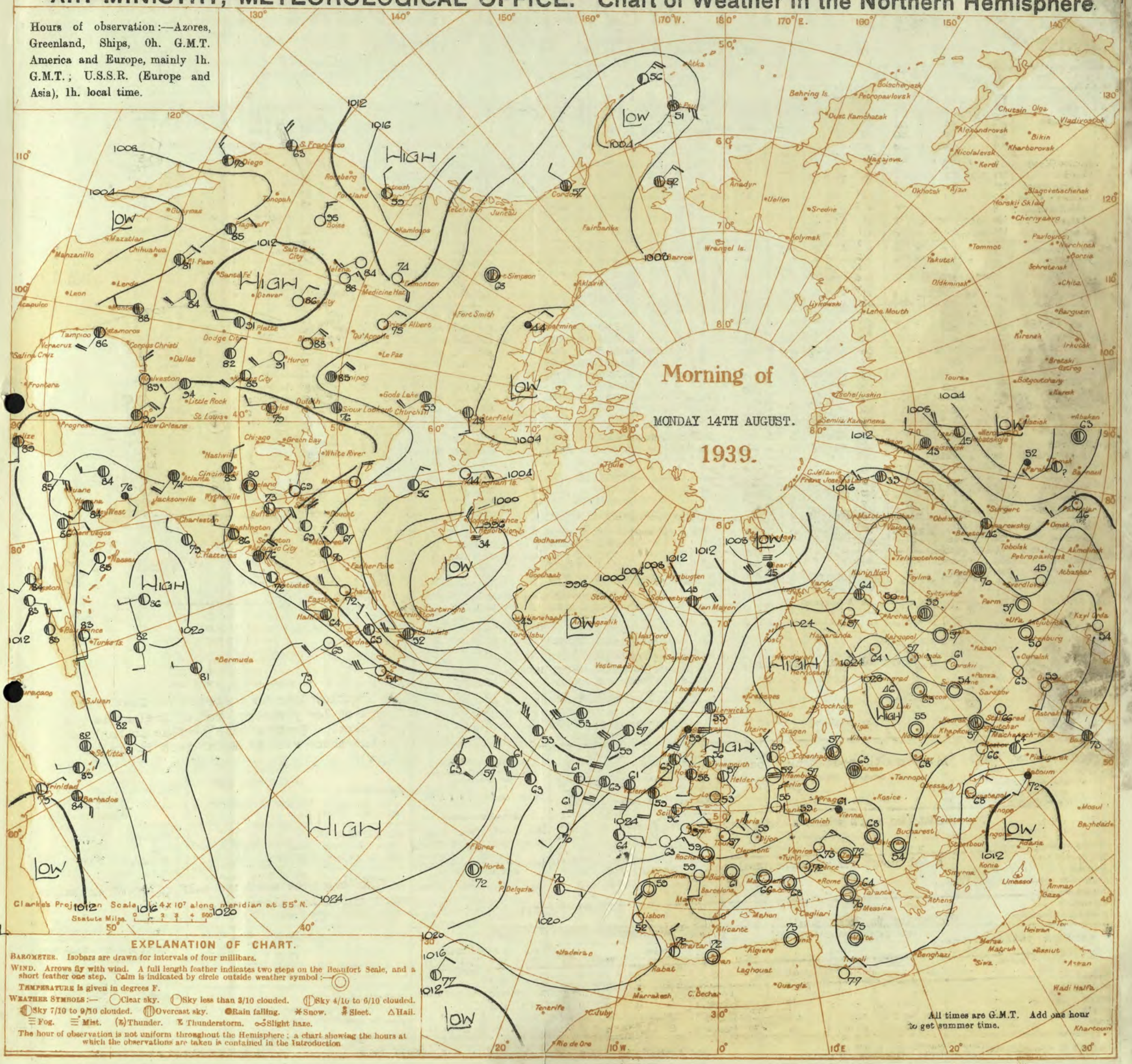
Forecasts issued at 0930 G.M.T.

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 14th August, 1939:
No. 28389

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1026·8	+10	SSE	1	b	53	92	6	–	–	–	0	0	–
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Calshot (Sthmtn.)	8	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Lympne ...	346	1026·9	+2	NE	2	b	51	92	8	–	–	–	0	0	–
	Manston ...	154	1026·7	+2	–	0	b	51	92	7	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1026·5	+2	W'N	2	b	54	85	7	–	–	–	0	0	–
	Mildenhall ...	19														
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Roes-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1026·2	+6	E	2	b	57	85	9	4	–	–	1	1	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1026·7	+8	N	2	b	60	85	8	–	–	–	0	0	–
	Plymouth ...	82	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	The Lizard ...	240														
	Scilly (St. Mary's)	163	1026·1	+4	NE	2	bc	54	85	8	4	–	–	2·3	2·3	2500
	Guernsey ...	175	1026·0	+2	E	3	bc	56	97	8	5	–	–	2·3	2·3	2500
6	Pembroke ...	142	1025·3	+2	N	2	b	57	92	6	–	–	–	0	0	–
7	Holyhead ...	26	1026·8	+8	E	2	bc	55	97	8	5	–	–	2·3	2·3	2500
	Chester (Sealand)	16	1025·6	+2	S	2	c	58	92	8	–	–	–	0	7·8	–
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1026·4	+2	SSE	1	bc	57	85	7	–	8	–	0	2·3	–
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1025·6	0	SW	3	bc	56	85	6	5	–	–	4·6	4·6	1500
11	St. Abbs Head	280	1024·6	0	WSW	3	c	57	85	8	5	1	–	7·8	10	2500
	Leuchars ...	36	"	"	"	"	"	"	"	"	"	"	"	"	"	"
12	Renfrew (Abbots I.)	19	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1025·1	0	SW	1	bc	55	97	8	5	–	–	2·3	2·3	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1020·3	–2	SSW	5	r.r.	59	97	6	8	–	–	10	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1022·3	0	SSW	3	r.r.	57	97	7	5	2	–	9	10	800
16	Lerwick ...	156	1021·8	0	S'E	5	c	55	92	8	5	7	–	4·6	7·8	1500
17	Blacksod Point	18	1021·5	0	S	6	c	60	97	7	5	–	–	10	10	<150
18	Malin Head ...	84	1022·5	+2	S	2	c	63	85	8	8	–	–	9	9	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1024·5	+2	S	4	c	59	92	7	5	–	–	7·8	7·8	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 14th August

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)	1027·3	+4	–	0	z_0	55	85	5	–	–	2	0	4·6	–	0	*
Croydon ...	1026·9	+2	–	0	z_0	53	85	6	–	–	1	0	2·3	–	0	*
S. Farnborough	1027·4	+6	–	0	bc/f	47	85	5	–	–	2	0	4·6	–	1	*
Boscombe Down	1027·2	+2	–	0	z_0	53	85	6	–	–	2	0	7·8	–	1	*
Calshot (Sthmtn.)	1026·5	+4	NNW	2	z_0	56	92	6	–	–	2	0	2·3	–	1	1
Lympne ...	1027·1	+6	NNE	2	of+	56	97	3	5	–	–	10	10	800	0	§1
Manston ...	1027·2	+6	NE	2	bc	60	85	7	1	–	2	2·3	4·6	1500	0	*
Shoeburyness ...	1027·2	+10	N	1	bc	59	85	6	1	–	2	Tr	2·3	2500	0	*
Felixstowe ...	1027·3	+8	NNE	1	z_0	57	92	6	1	–	3	1	2·3	4000	0	1
Gorleston ...	1027·5	+10	–	0	bc	54	92	5	5	–	–	2·3	2·3	1500	0	1
Mildenhall ...	1026·9	+6	–	0	z_0	57	92	6	–	3	6	0	9+	–	1	*
Cranwell ...	1026·8	+6	W	1	c	55	92	5	5	–	–	9+	9+	5700	1	*
Birmingham ...	1027·2	+4	–	0	z_0	56	85	6	–	–	8	0	9	–	1	*
Upper Heyford	1027·3	+2	–	0	cjf	54	85	6	–	–	2	0	7·8	–	0	*
Roes-on-Wye	1027·1	0	W	1	fg	49	92	5	–	–	2	0	4·6	–	0	*
Hartland Point	1025·9	+2	SE	2	bc	59	75	8	–	–	2	0	4·6	–	0	1
Bristol ...	1027·2	+6	–	0	z_0	50	97	6	–	–	8	0	4·6	–	0	*
Portland Bill ...	1026·6	+12	ENE	2	bc	60	92	7	1	–	–	4·6	4·6	4000	1	2
Plymouth ...	1026·0	+2	NE	1	z_0	52	85	5	5	–	2	Tr	2·3	800	0	0
The Lizard ...	1025·5	+2	ENE	3	bc	58	92	8	7	3	–	2·3	4·6	4000	0	1
Scilly (St. Mary's)	1025·3	0	E	2	bc	58	92	8	–	4	6	0	4·6	–	0	1
Guernsey ...	1025·3	+6	ENE	3	bc	60	85	7	–	–	8	0	2·3	–	0	2
Pembroke ...	1026·6	+4	E'N	3	bc	56	92	7	5	7	–	2·3	4·6	2500	0	1
Holyhead ...	1026·2	0	SSW	2	c	60	85	9	–	–	2	0	9	–	0	1
Chester (Sealand)	1026·7	+4	–	0	fg	58	92	5	–	7	1	0	4·6	–	0	*
Manchester ...	1026·7	+8	–	0	cf+	53	97	3	–	–	4	0	7·8	–	0	*
Spurn Head ...	1026·8	0	–	0	c	60	85	6	5	4	–	7·8	9+	4000	1	1
Catterick ...	1026·8	+6	–	0	c	51	97	7	–	3	8	0	9	–	1	*
Tynemouth ...	1025·9	+4	WSW	2	cf	55	85	2	5	–	–	9+	9+	2500	1	1
St. Abbs Head	1024·6	0	WSW	2	c	58	85	9	4	2	–	4·6	9	2500	0	1
Leuchars ...	1024·3	+2	WSW	1	ir.	58	92	6	5	2	–	7·8	10	1500	1	*
Renfrew (Abbots I.)	1024·9	+6	–	0	z_0	59	92	5	5	–	–	10	10	2500	1	*
Eskdalemuir ...	1026·1	+2	SE'S	1	c	54	97	5	7	5	7	4·6	9+	220	1	*
Point of Ayre ...	1025·3	0	S'W	2	c	59	92	8	–	7	–	0	9+	–	0	1
Tiree ...	1021·3	+4	S'E	4	c	59	92	8	5	–	–	9+	9+	2500	1	3
Stornoway ...	1020·0	0	SSW	6	rr	59	97	6	5	–	–	10	10	800	1	3
Dalwhinnie ...	*	0	SW	4	c	57	92	7	5	2	–	7·8	10	1500	1	*
Aberdeen ...	1023·3	+2	–	0	ir.	60	92	6	5	–	–	9+	9+	4000	0	1
Wick ...	1021·3	–4	SSW	3	r.r.	57	97	7	5	2	–	7·8	10	1500	1	1
Lerwick ...	1022·4	+12	S'W	5	rf	55	97	2	–	–	–	10	10	<150	1	*
Blacksod Point	1021·9	+8	S	6	c	59	92	7	–	7	–	0	9	–	0	4
Malin Head ...	1022·4	+8	S	4	c	63	85	8	6	7	–	2·3	9	4000	0	2
Aldergrove ...	1024·5	+10	S	2	c	61	92	8	5	4	–	9	9+	4000	1	*
Birr Castle ...	1024·7	+4	SSW	2	c	55	92	8	5	4	5	2·3	7·8	2500	1	*
Valentia Obsy. †	1024·8	+10	SE'S	3	c	59	85	8	8	3	1	7·8	7·8	1500	0	1
Roches Point	1025·7	+4	N	2	cf	53	97	2	5	–	–	7·8	7·8	<150	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 13th Hrs. (36)
London (Kew)	69	50	39	–	Tr	7·6
Croydon ...	69	48	42	–	–	7·1
S. Farnborough	71	46	37	–	Tr	8·4
Boscombe Down	69	46	43	–	Tr	7·4
Calshot (Sthmtn.)	72	52	49	–	–	10·9
Lympne ...	65	48	43	–	–	8·8
Manston ...	67	49	39	–	–	11·3
Shoeburyness ...	68	49	40	–	–	5·9
Felixstowe ...	69	51	47	–	–	6·1
Gorleston ...	65	51	48	–	–	11·1
Mildenhall ...	70	50	44	–	Tr	9·1
Cranwell ...	69	47	43	–	–	6·8
Birmingham ...	69	52	39	–	–	8·9
Upper Heyford	68	48	40	–	–	*
Roes-on-Wye	70	45	40	–	–	10·3
Hartland Point	62	55	52	–	–	12·1
Bristol ...	70	45	35	–	–	8·7
Portland Bill ...	65	58	*	–	–	*
Plymouth ...	65	49	45	–	–	10·8
The Lizard ...	67	53	*	–	–	13·7
Scilly (St. Mary's)	66	55	*	–	–	13·7
Guernsey ...	65	56	49	–	–	13·4
Pembroke ...	65	53	*	–	–	11·1
Holyhead ...	65	56	52	–	–	11·8
Chester (Sealand)	70	50	45	–	–	11·5
Manchester ...	68	48	43	–	–	8·5
Spurn Head ...	66	55	*	–	Tr	11·7
Catterick ...	69	47	45	–	–	9·1
Tynemouth ...	62	54	51	–	–	10·8
St. Abbs Head	62	55	*	–	–	*
Leuchars ...	68	57	55	–	0·1	8·9
Renfrew (Abbots I.)	66	57	55	Tr	Tr	4·2
Eskdalemuir ...	63	50	48	–	–	8·5
Point of Ayre ...	67	53	*	–	–	7·6
Tiree ...	60	57	55	Tr	2	0·0
Stornoway ...	58	57	*	0·5	8	1·4
Dalwhinnie ...	61	55	54	0·1	0·4	5·3
Aberdeen ...	62	57	53	–	Tr	9·8
Wick ...	59	55	*	–	3	*
Lerwick ...	58	52	*	–	1	5·4
Blacksod Point	63	52	*	–	–	*
Malin Head ...	70	60	*	1	–	2·1
Aldergrove ...	69	59	55	Tr	–	1·1
Birr Castle ...	73	54	47	–	–	1·7
Valentia Obsy. †	65	57	51	1	–	0·9
Roches Point	65	50	*	–	0·1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T. % Yesterday	Humidity 9h. G.M.T. % To-day	Visibility 9h. To-day
Kew ...	18	bm.bcy	cbcy	bcybW	69	50	39	–	Tr	7·6	*	*	6
Croydon ...	217	bz.bcy	cbcy	cybm.sW	69	48	42	–	–	7·1	*	*	6
Greenwich (Royal Observatory) ...	149	bcy	cy	cbWz	69	47	36	–	Tr	7·1	48	70	5
City (Sunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	72	51	47	–	–	9·6	57	75	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	70	50	41	–	–	*	53	63	*
Camden Square ...	110	b	bc	*	70	50	43	–	–	*	*	63	*
Kensington ...	80	b	bc	*	71	51	42	–	–	7·3	At 18h 51	59	*
Hampstead Observatory ...	450									*	*		*

Atmospheric Pollution.

Milligrams of Sol'd Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·3	6-7h 14th	<0·3	16-18h 13th

Kew Observatory. Max.	Time.	Min.	Time.
0·2	7h. 14th	<0·1	13-18h 13th

FOREIGN OBSERVATIONS.

18h. G.M.T. 13th August / 7h. G.M.T. 14th August

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.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1022·7	NNW	3	b	70	1025·3	NNE	2	bc	55	73	52	–	–
Brussels ...						1026·3	ENE	3	b	57		48		–
Berlin ...	1021·6	W	1	c	66	1024·1	–	0	z_0	61	73	54	–	–
Zürich ...	1019·8	SE	1	bc	68	1024·1	S	1	f	59	73	*	–	*
Rome ...	1014·9	W'N	1	b	81	1016·5	E	1	c	73	*	*	–	–

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.

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.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Tuesday 15th August, 1939.
No. 28390

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1027·1	-4	ENE	2	c⊕	70	45	7	5	-	1	7-8	7-8	4000
	Croydon ...	1026·6	-6	-	0	c	69	55	7	4	-	1	4-6	7-8	7200
	S. Farnborough	1026·2	+6	E	1	bc	71	45	7	4	-	1	4-6	4-6	5700
	Boscombe Down	1027·0	-4	E'N	1	bc	70	45	7	1	-	1	4-6	4-6	4000
	Calshot (Soton.)	1027·0	-2	SSE	3	bc	70	65	8	1	-	2	2-3	4-6	4000
	Lympne ...	1026·9	-6	NNE	2	bc	64	65	8	1	-	2	4-6	4-6	4000
	Manston ...	1027·3	-2	NE	2	c	65	65	8	1	-	6	2-3	9	2500
2	Shoeburyness ...	1027·5	-6	E'S	3	bc	66	65	8	1	-	2	Tr	4-6	4000
	Felixstowe ...	1027·6	-2	SE	3	bc	68	55	8	2	4	2	1	4-6	2500
	Gorleston ...	1027·4	0	ESE	1	c	68	75	7	4	3	-	1	7-8	2500
	Mildenhall ...	1026·9	-4	-	0	c	71	55	7	8	-	1	7-8	9	4000
	Cranwell ...	1026·5	-2	-	0	c	72	55	7	1	-	4	4-6	9	4000
3	Birmingham ...	1026·5	-4	SSW	2	c	70	45	8	1	-	8	2-3	7-8	5700
	Upper Heyford	1026·5	-8	-	0	bc	73	45	7	1	-	1	4-6	4-6	4000
4	Ross-on-Wye ...	1026·1	-4	ENE	1	bc	70	55	7	1	-	1	2-3	2-3	4000
5	Hartland Point	1026·6	+2	NE	2	bc	63	85	8	2	4	-	2-3	4-6	2500
	Bristol	1027·0	-4	E	2	bc	70	45	7	4	-	1	2-3	4-6	4000
	Portland Bill ...	1026·9	+8	E	2	bc	67	85	7	1	4	-	2-3	4-6	4000
	Plymouth ...	1026·4	0	SSE	2	bc	69	55	8	1	-	2	Tr	4-6	4000
	The Lizard ...	1026·1	0	E'N	3	bc	66	85	8	7	4	-	2-3	4-6	4000
	Scilly (St. Mary's)	1025·9	0	E'S	3	b	68	85	8	-	-	-	0	0	-
	Guernsey ...	1026·5	-2	ENE	3	bc	66	65	8	-	-	8	0	2-3	-
6	Pembroke ...	1027·2	+2	S'E	2	bc	65	85	7	2	4	-	2-3	2-3	2500
7	Holyhead ...	1026·2	-4	SSW	3	bc	66	65	9	-	-	1	0	2-3	-
	Chester (Sealand)	1026·5	-6	-	0	c	72	55	7	1	-	2	Tr	7-8	4000
8	Manchester ...	1026·4	-4	SW	1	z_o	72	55	6	-	-	2	0	4-6	-
10	Spurn Head ...														
	Catterick ...	1025·8	-6	SE	1	c	72	55	8	8	3	5	1	7-8	2500
	Tynemouth ...	1025·8	0	SE	2	c	63	75	6	5	3	-	7-8	7-8	1500
11	St. Abbs Head...	1024·8	0	SW	3	c	71	65	8	8	6	-	4-6	9+	2500
	Leuchars ...	1024·7	-2	SW	2	c	69	75	7	8	3	-	4-6	9	1500
12	Renfrew (AbbotsI.)	1024·8	-2	WSW	3	c	68	75	7	8	7	-	7-8	9+	2500
	Eskdalemuir ...	1025·7	0	SW	3	c	60	85	7	5	-	-	10	10	1500
	Point of Ayre ...	1026·1	0	E	1	bc	66	75	8	1	-	1	Tr	2-3	4000
13A	Tiree	1022·3	+4	SW	4	d_od_o	60	85	8	5	-	-	9	9	2500
13B	Stornoway ...	1020·5	+2	SSW	6	id_o	59	97	6	5	-	-	10	10	800
15	Dalwhinnie ...	1024·0	+6	SW	3	c	61	85	7	4	6	-	7-8	10	2500
	Aberdeen ...	1023·7	0	SSW	3	ir_o	66	85	7	5	7	-	4-6	10	4000
	Wick	1022·0	0	S	2	cr_or_o	58	97	7	5	1	-	7-8	10	1500
16	Lerwick... ...	1022·8	0	S	5	o/d	55	97	6	5	-	-	10	10	450
17	Blacksod Point...	1023·4	+10	S	7	c	60	85	8	-	7	-	0	9	-
18	Malin Head ...	1022·8	0	SW	2	c	69	92	8	2	4	-	4-6	7-8	5700
	Aldergrove ...	1024·2	-8	WSW	1	bc	73	65	8	7	3	-	2-3	4-6	4000
19	Birr Castle ...	1024·8	-4	S	2	bc	71	65	8	1	-	-	2-3	2-3	4000
20	Valentia Obsy.†	1025·0	-2	SSW	5	b	66	65	8	1	4	-	1	1	4000
	Roches Point ...	1026·0	-2	SE	3	bc	63	85	9	1	-	-	2-3	2-3	4000

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1026·3	-4	S'E	1	bc	71	55	7	4	-	1	4-6	4-6	4000	0	*
Croydon	1026·3	-2	E'S	2	c	68	65	7	4	-	2	Tr	7-8	5700	0	*
S. Farnborough	1026·1	-4	E	2	z_o	70	55	6	1	-	1	2-3	2-3	7200	0	*
Boscombe Down	1026·2	-2	E'N	1	b	70	45	7	4	-	9	Tr	1	7200	0	*
Calshot (Soton.)	1026·3	-2	SW	2	b	67	75	8	-	-	1	0	1	-	0	1
Lympne	1027·0	0	ENE	2	bc	62	65	8	-	-	2	0	4-6	-	0	§ 1
Manston	1027·0	-4	ENE	2	bc	62	75	8	-	-	6	0	4-6	-	0	*
Shoeburyness	1027·1	-4	E'S	3	bc	63	65	8	-	-	2	0	4-6	-	0	*
Felixstowe	1027·3	-2	SE	3	bc	64	75	8	-	-	2	0	4-6	-	0	1
Gorleston	1027·3	0	E'S	1	bc	62	75	7	-	4	1	0	4-6	-	0	1
Mildenhall	1026·5	+2	ESE	2	c	68	65	7	-	-	2	0	7-8	-	0	*
Cranwell	1026·2	+2	E'S	2	bc	67	75	7	-	3	1	0	4-6	-	0	*
Birmingham	1026·0	-2	SW	1	c	71	45	8	-	6	8	0	9	-	1	*
Upper Heyford	1026·3	-2	SSW	1	z_o	70	55	6	1	-	1	Tr	2-3	4000	0	*
Ross-on-Wye	1025·6	-4	SSE	1	b	72	55	7	-	-	1	0	1	-	0	*
Hartland Point	1026·4	0	NE	2	b	63	65	8	1	-	-	1	1	2500	0	1
Bristol	1026·3	-2	-	0	b	71	55	7	4	-	1	Tr	1	5700	0	*
Portland Bill	1026·5	-6	SE	2	bc	62	85	7	1	-	-	2-3	2-3	4000	1	2
Plymouth	1026·3	+2	SE	2	b	66	55	8	-	-	9	0	Tr	-	0	1
The Lizard	1026·3	+2	E'N	2	bc	63	85	8	7	-	-	2-3	2-3	4000	0	1
Scilly (St. Mary's)	1025·9	0	ESE	3	b	64	85	8	-	-	-	0	0	-	0	2
Guernsey	1025·3	-2	NE	3	bc	63	65	8	-	-	8	0	2-3	-	0	1
Pembroke	1027·2	-4	-	0	b	66	65	7	-	4	-	0	1	-	0	1
Holyhead	1026·3	-2	SW	1	b	65	65	8	-	-	-	0	0	-	0	1
Chester (Sealand)	1026·5	+4	NW'W	3	b	67	65	7	1	-	-	Tr	Tr	4000	0	*
Manchester	1026·4	0	NW	2	c	65	75	8	5	3	-	2-3	9	5700	0	*
Spurn Head	1026·9	0	SE'S	3	bc	61	85	8	-	8	8	0	4-6	-	0	2
Catterick	1025·6	-2	-	0	c	71	65	8	5	-	-	9	9	5700	0	*
Tynemouth	1025·8	0	SSE	3	c	62	85	6	5	3	-	4-6	7-8	1500	1	1
St. Abbs Head	1024·9	0	SW	3	c	67	75	9	8	3	9	4-6	9	2500	0	2
Leuchars	1024·5	+2	SSW	2	c	69	75	8	8	3	-	4-6	9	4000	0	*
Renfrew (AbbotsI.)	1024·6	-2	WSW	3	c	67	65	8	5	3	1	4-6	7-8	4000	0	*
Eskdalemuir	1025·2	-2	SW'S	3	bc	65	75	9	5	5	-	2-3	4-6	1500	0	*
Point of Ayre	1026·0	0	S	1	b	63	85	8	-	4	-	0	Tr	-	0	1
Tiree	1022·9	+2	SSW	4	rr	58	92	7	-	2	-	10	10	<1500	1	4
Stornoway	1021·2	+4	SSW	5	r_or_o	57	97	6	6	2	-	9	10	800	1	3
Dalwhinnie	1023·8	0	W	2	c	62	75	8	5	6	-	4-6	10	2500	0	*
Aberdeen	1024·1	+4	S	3	c/r	65	75	6	5	7	9	Tr	9+	4000	0	1
Wick	1022·5	+2	S	3	rr	57	97	7	5	2	-	7-8	10	1500	1	1
Lerwick	1022·8	0	S	5	id_o	56	97	6	5	7	-	7-8	10	450	0	*
Blacksod Point	1024·2	+4	SW	3	c	60	92	8	8	-	-	10	10	220	0	3
Malin Head	1024·6	+8	S'W	1	c/pr	60	92	7	8	-	-	9+	9+	4000	0	1
Aldergrove	1024·4	+2	S	1	c	68	65	8	7	-	-	7-8	7-8	4000	1	*
Birr Castle	1024·8	+2	S	2	bc	71	55	8	5	3	-	2-3	4-6	2500	1	*
Valentia Obsy.†	1025·8	+2	SW	4	bc	63	75	9	2	3	-	4-6	4-6	2500	0	1
Roches Point	1026·2	+2	SE	2	bc	65	85	8	1	-	-	2-3	2-3	4000	1	1

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 14th (37)	13h.—18h. 14th (38)	18h. 14th to 1h. 15th (39)	1h.—7h. 15th (40)
London (Kew)	bcmwcy	cybcy	bcybw	bbm$_o$w
Croydon	bcc⊕y	cybc	bcbm$_o$w	bm$_o$w
S. Farnborough	bcycbc	bczy	bcbm$_o$w	bwfjf
Boscombe Down	bcm$_o$bc	bcy	bybm$_o$	bm$_o$
Calshot (Soton.)	bcm$_o$c	bcb	bbw	bwm$_o$
Lympne	cfbbcc	cby	bcbw	bwf$_g$
Manston	bcc	bcy	bcbw	bcf$_g$fbc
Shoeburyness	bcz$_o$bc	bc	bcbw	bw
Felixstowe	bcm$_o$cbcy	bcybc	bcbm$_o$	bm$_o$w
Gorleston	bcz$_o$c	cbc	bc	bcwz$_o$
Mildenhall	cm$_o$ccy	cybc	bcybm$_o$w	bm$_o$wbcf$_g$
Cranwell	cm$_o$bcczy	cycbc	bccbc	bcbm$_o$w
Birmingham	cbc	cbcc	cbc	bcbf
Upper Heyford	jfbcmbcy	bcyz$_o$	bcz$_o$bm$_o$	bmwbf
Ross-on-Wye	cmbcy	bcy	bm$_o$w	bfw
Hartland Point	bc	bc	bc	bcb
Bristol	bcm$_o$bc	bcby	bybcbz$_o$	bm$_o$gfm$_o$w
Portland Bill	bc	bc	bc	bcb
Plymouth	cybcy	bcyby	b	bm$_o$
The Lizard	bc	bcbbc		bbc
Scilly (St. Mary's)	bcb	b	bw	bw
Guernsey	bc	bc	bcb	bbcw
Pembroke	bcm$_o$	bcbm$_o$	bw	bwm$_o$
Holyhead	cb	b	bw	bwc
Chester (Sealand)	bcwm$_o$y	bcbyb	bwm$_o$f$_g$	bwmfbc
Manchester	cfbcz$_o$y	bcz$_o$ycbc	cbw	bwcfw
Spurn Head		c	cb	bbcw
Catterick	cwcbc	bcc	c	bcbcw
Tynemouth	cffc	cbcc	c	cbcm
St. Abbs Head	c	c	cbc	bcc
Leuchars	ir$_o$m$_o$c	c	bcm$_o$bcw	bwir$_o$c
Renfrew (AbbotsI.)	cmm$_o$c	cbc	bcc	pr$_o$ir$_o$cm$_o$
Eskdalemuir	cwc	cbc	bc	bcwcw
Point of Ayre	cbc	bcb	bbcc	c
Tiree	cd$_o$d$_o$	cr$_o$drr	orrr$_o$c	cbc
Stornoway	cid$_o$	cr$_o$r$_o$	cr$_o$r$_o$	b,c
Dalwhinnie	c	c	•	ciR
Aberdeen	cir$_o$	cir$_o$	cz$_o$	cr$_o$cm$_o$
Wick	cr$_o$r$_o$	cprrr	rrr$_o$c	cbc
Lerwick	oifirid	cid$_o$	crrm$_o$	crr
Blacksod Point	cq	ir$_o$	iDr	bc
Malin Head	c	c	cpr$_o$c	c
Aldergrove	cbc	bccbc	bcc	cwcm$_o$c
Birr Castle	cbc	bcy	bc	bcc
Valentia Obsy.†	cbcb	bcc	bcbbcw	bcwco
Roches Point	FFcbc	bc	bcbw	cFFc

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.

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.*

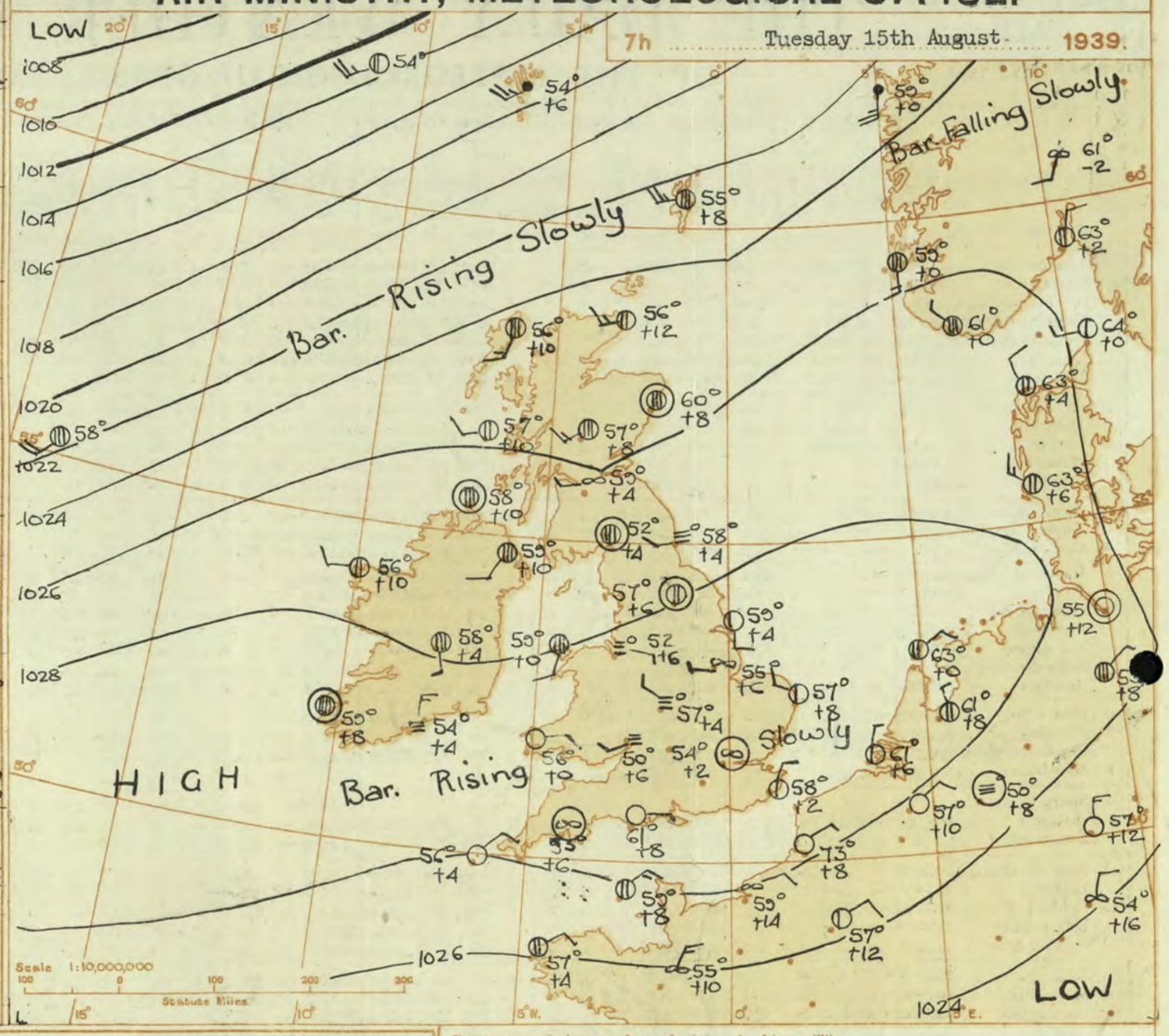
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 14th August 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 13th to 9h. 14th	Temperature. (°F) Max. 9h.—17h. 14th	Rainfall. (mm.) Night. 17h. 13th to 9h. 14th	Rainfall. (mm.) Day. 9h.—17h. 14th	Sunshine. (Hrs.) Sunrise to 17h. 14th	Sunshine. (Hrs.) Sunrise to Sunset. 13th
1	Tunbridge W.	b	bbcb	43	73	-	-	10·5	8·5
	Bournemouth	b	b	48	70	-	-	10·4	8·0
	Ventnor ...	bz	b	58	72	-	-	11·1	12·9
	Southsea ...	b	b	53	70	-	-	11·3	10·0
	Bognor Regis	b	bc	51	67	-	-	10·7	8·4
	Littlehampton	bc	bc	50	68	-	-	10·2	8·2
	Worthing ...	b	b	51	67	-	-	10·8	7·7
	Brighton ...	b	b	51	67	-	-	10·0	7·5
	Eastbourne† ...	bbcc	cbv	52	68	-	-	10·4	7·3
	Hastings† ...	bccbc	bbcb	52	66	-	-	98	6·4
	Folkestone ...	bc	bcb	51	67	-	-	11·3	7·5
	Dover ...	bc	bc	52	67	-	-	11·5	9·0
	Deal	b	b	48	69	-	-	11·2	11·1
	Ramsgate ...	bc	bc	56	67	-	-	11·6	11·3
	Margate ...	bc	bc	56	66	-	-	11·7	11·4
2	Southend ...	b	b	53	71	-	-	11·0	6·6
	Clacton-on-Sea	bc	bcv	53	68	-	-	11·6	7·1
	Dovercourt ...	ac	bcv	51	69	-	-	11·4	7·5
	Lowestoft ...	b	bc	47	65	-	-	7·5	9·6
	Skegness ...	bcocb	bc	55	66	-	-	7·5	9·6
	Mablethorpe...	bcb	bcbbc	51	67	-	-	4·4	10·6
	Cleethorpes ...	bc	bcv	53	67	-	-	4·7	12·0
3	Leamington S.								
4	Cheltenham†	bcb	bcz	49	75	-	-	8·6	10·4
5	Bath	bcb	bbc	46	73	-	-	9·6	9·1
	Weymouth ...	b	b	53	69	-	-	11·5	11·6
	Jersey ...	bc	bc	59	71	-	-	11·3	13·9
	Torquay ...	wb	by	51	68	-	-	11·2	13·7
	Falmouth ...	b	b	52	68	-	-	11·2	13·7
	Penzance ...	b	b	51	70	-	-	11·0	11·7
	St. Ives ...	b	b	56	71	-	-	11·1	13·3
	Bude... ...	wbc	bc	47	71	-	-	9·5	11·3
	Ilfracombe ...	bbcz	bcb	53	68	-	-	10·4	13·0
6	Aberystwyth	zbc	bbc	51	68	-	-	10·7	12·2
7	Llandudno .	bcb	b	52	68	-	-	11·1	12·2
	Colwyn Bay...	bcb	bcb	51	66	-	-	10·6	11·9
	Rhyl	bbc	bbc	50	70	-	-	10·6	13·0
8	Wallasey ...	mbcb	b	55	69	-	-	10·3	11·7
	Southport ...	bczbv	bcvbv	50	71	-	-	10·2	11·8
	Blackpool ...	bcb	bbc	49	70	-	-	10·1	11·6
	Morecambe ...	bc	b	51	69	-	-	9·5	11·6
9	Ilkley... ...	bc	bc	48	73	-	-	9·8	10·8
	Harrogate ...	bbc	bbc	47	71	-	-	8·5	8·4
10	Berwick-on-T.	oc	c	56	70	Trace	-	1·2	11·1
11	Dunbar ...	cm.	cm.	56	70	-	-	1·1	9·4
12	Troon... ...	bcc	cbcc	58	68	-	-	3·9	4·8
	Douglas ...	b	b	56	66	-	-	8·6	6·9

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

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. 15th August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light variable wind; fine; local morning mist or fog; warm.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light or moderate south wind; fair; local morning mist or fog; warm.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light or moderate southwest to south wind; mainly fair; warm.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Light or moderate southwest wind, backing south, fresh on coasts; mainly fair at first; occasional rain locally later; rather warm.
17 N. W. Ireland 18 N. E. Ireland	As 13A - 16.
19 S. E. Ireland 20 S. W. Ireland	As 11 - 12

GENERAL INFERENCE.

A belt of high pressure covers the southern half of the British Isles, and a trough of low pressure in Mid-Atlantic is moving east. Weather will be fair in England and Wales, but there will be local rain later in Scotland.

FURTHER OUTLOOK.

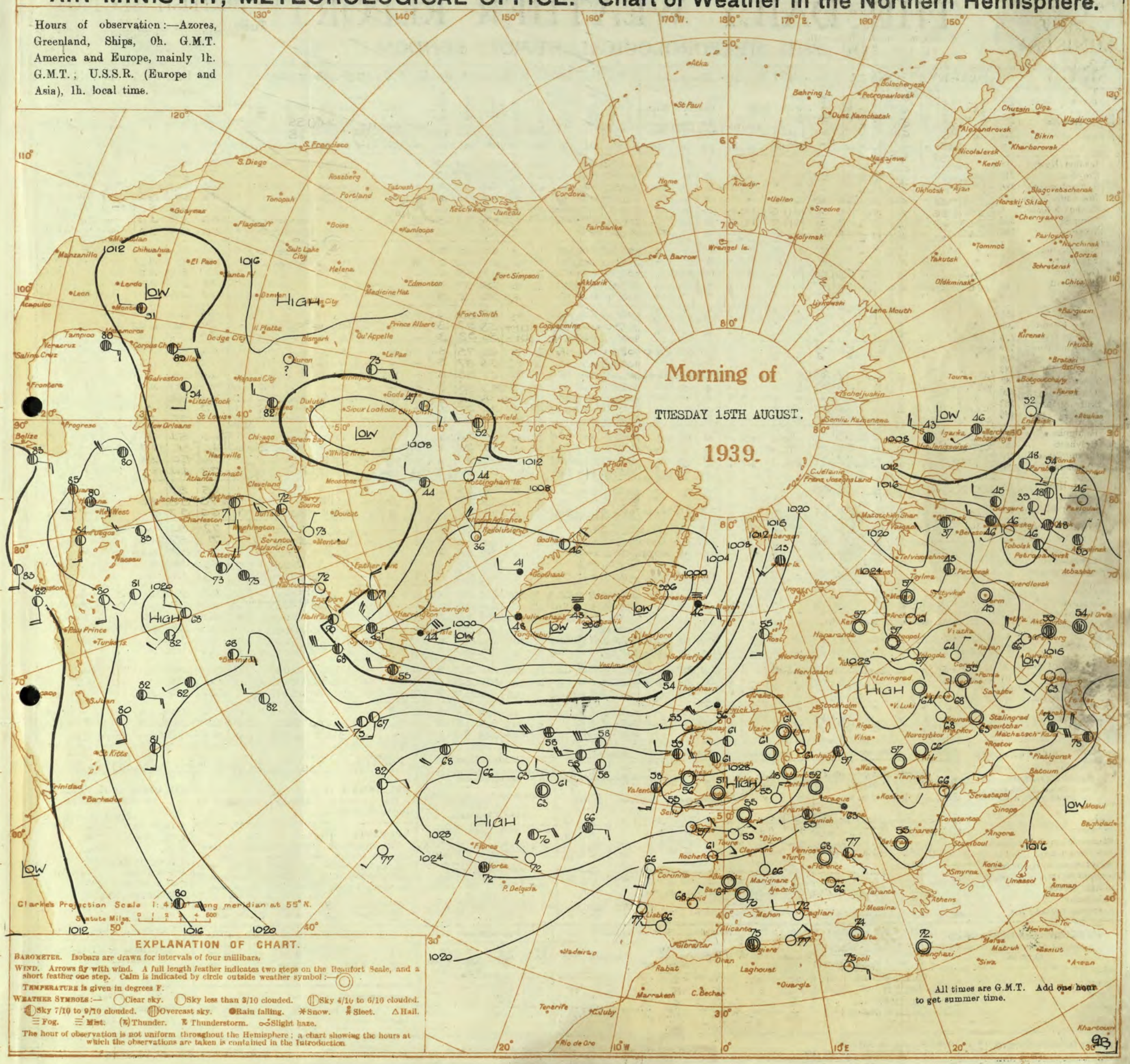
Fair for several days over the southern half of Great Britain.

Forecasts issued at 0930 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 15th August, 1939.
No. 28390

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

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	1028.3	+6	-	0	b	51	92	6	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1028.4	+12	-	0	z_0	54	85	6	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1028.0	+6	-	0	z_0	56	97	6	-	-	-	0	0	-
	Lympne ...	346	1028.3	+6	NE'E	2	b	52	97	8	-	-	-	0	0	-
	Manston ...	154	1028.4	+2	-	0	b	54	92	8	5	-	-	1	1	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1028.4	+2	-	0	bc	59	85	7	-	4	-	0	2-3	-
	Mildenhall ...	19	1028.2	+2	SE	2	z_0	51	97	6	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027.6	+2	NE	2	bc	61	75	8	5	-	-	2-3	2-3	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1027.7	+12	N	2	bc	57	85	8	1	-	-	2-3	2-3	4000
	Plymouth ...	82	1027.9	+2	ENE	1	b	52	92	8	-	-	-	0	0	-
	The Lizard ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Scilly (St. Mary's)	163	1027.5	+2	ENE	2	b	55	97	8	-	-	-	0	0	-
	Guernsey ...	175	1026.8	+6	NNE	3	b	57	85	8	-	-	-	0	0	-
6	Pembroke ...	142	1028.2	+4	E	1	b	58	85	7	-	-	-	0	0	-
7	Holyhead ...	26	1027.6	+6	-	0	b	56	97	7	-	3	-	0	1	-
	Chester (Sealand)	16	1028.2	+6	-	0	fg	52	97	6	-	-	-	0	0	-
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1027.7	0	SSE	3	b	59	85	7	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1026.6	-2	W	3	c	61	75	7	5	-	-	7-8	7-8	2500
11	St. Abbs Head	280	1025.4	0	WSW	4	bc	59	85	8	4	4	-	2-3	2-3	2500
	Leuchars ...	36	1025.5	+4	WSW	2	bc	59	85	7	5	7	-	2-3	2-3	4000
12	Renfrew (Abbotsl.)	19	1026.4	+6	SW	1	c	60	75	7	5	3	-	4-6	10	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1026.6	+2	-	0	c	55	85	8	5	-	-	7-8	7-8	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1023.1	+8	SSW	2	b	53	92	7	-	-	-	0	0	-
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1022.9	-4	SSW	3	c	58	97	7	5	2	-	7-8	10	1500
16	Lerwick ...	156	1021.8	-2	SW	5	rr	56	97	6	6	2	-	4-6	10	450
17	Blacksod Point	18	1025.7	+6	-	0	bc	58	92	8	4	-	-	2-3	2-3	800
18	Malin Head ...	84	1026.2	+4	W	2	c	59	92	6	9	-	-	9	9	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1027.2	+10	S	3	c	58	97	8	5	-	-	7-8	7-8	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1029.2	+10	-	0	z_0	56	92	5	-	-	-	0	0	-	0	*
Croydon ...	1028.7	+2	-	0	z_0	54	97	6	-	-	-	0	0	-	0	*
S. Farnborough	1029.2	+8	-	0	z_0	49	97	5	-	-	-	0	0	-	0	*
Boscombe Down	1028.9	+6	-	0	z_0	54	92	6	-	-	-	0	0	-	1	*
Calshot (Sthmtn.)	1028.7	+10	NW'N	1	z_0	56	97	6	-	-	-	0	0	-	0	1
Lympne ...	1028.6	+2	NNE	1	b	58	92	8	2	-	1	1	1	4000	0	§1
Manston ...	1029.0	+10	-	0	c	57	97	8	2	-	-	7-8	7-8	2500	0	*
Shoeburyness ...	1028.9	+10	N'E	1	b	60	85	8	1	-	-	1	1	2500	0	*
Felixstowe ...	1029.0	+6	NW	1	z_0	57	92	6	5	-	-	1	1	1500	0	1
Gorleston ...	1029.5	+8	NW'W	2	b	57	85	6	-	4	-	0	1	-	0	1
Mildenhall ...	1028.7	+6	SSE	2	b	55	97	7	-	-	5	0	1	-	1	*
Cranwell ...	1027.8	+6	W	1	z_0	55	92	5	-	-	-	0	0	-	0	*
Birmingham ...	1028.3	+4	NW	1	m	57	85	4	-	-	-	0	0	-	1	*
Upper Heyford	1029.0	+6	SSW	1	bf+	53	97	3	-	-	-	0	0	-	0	*
Ross-on-Wye	1028.7	+6	SW'W	1	bf-	50	92	3	-	-	-	0	0	-	0	*
Hartland Point	1028.1	+4	NE	2	b	63	75	8	-	-	-	0	0	-	0	1
Bristol ...	1028.8	+6	-	0	z_0	53	97	5	-	-	-	0	0	-	0	*
Portland Bill ...	1028.1	+8	E	1	b	61	85	8	-	-	-	0	0	-	1	2
Plymouth ...	1028.4	+6	-	0	z_0	53	85	5	-	-	-	0	0	-	0	0
The Lizard ...	1028.1	+6	NE	2	bc	58	85	8	7	-	-	2-3	2-3	4000	0	1
Scilly (St. Mary's)	1027.9	+4	NE'E	2	b	56	92	8	-	-	-	0	0	-	0	1
Guernsey ...	1027.5	+8	NE	3	bc	59	97	6	1	1	-	4-6	4-6	1500	0	1
Pembroke ...	1028.6	0	E'N	2	b	56	92	6	-	-	-	0	0	-	0	1
Holyhead ...	1027.8	0	SSW	2	c	59	92	9	5	-	-	9	9	5700	0	1
Chester (Sealand)	1028.5	+6	ESE	1	m	52	97	4	-	3	-	0	2-3	-	0	*
Manchester ...	1028.6	+10	SE	1	bf	52	97	3	-	3	-	0	Tr	-	0	*
Spurn Head ...	1028.1	+4	S	2	b	59	85	6	-	-	9	0	1	-	1	1
Catterick ...	1027.8	+6	-	0	bc	57	97	7	-	3	-	0	4-6	-	0	*
Tynemouth ...	1026.8	+4	WSW	2	m	58	92	4	5	3	-	2-3	4-6	2500	1	1
St. Abbs Head	1026.2	+10	-	0	c	59	75	8	4	6	9	4-6	7-8	2500	0	1
Leuchars ...	1025.8	+6	WSW	2	c	60	85	8	5	3	-	7-8	9	4000	0	*
Renfrew (Abbotsl.)	1026.6	+4	W'S	1	z_0	59	92	6	5	7	-	9	10	2500	0	*
Eskdalemuir ...	1027.6	+4	-	0	c	52	97	7	5	-	-	9+	9+	1500	1	*
Point of Ayre ...	1026.9	+6	W	3	c	61	85	8	5	3	-	4-6	7-8	2500	0	1
Tiree ...	1025.8	+10	WSW	2	bc	57	92	8	8	3	-	2-3	4-6	2500	1	2
Stornoway ...	1024.3	+10	SSW	3	c	56	92	8	5	7	-	7-8	9+	4000	1	2
Dalwhinnie ...	*	+8	SW	3	c	57	92	7	5	7	-	7-8	10	1500	1	*
Aberdeen ...	1025.4	+8	-	0	c	60	92	6	5	-	-	7-8	7-8	5700	1	1
Wick ...	1024.5	+12	WSW	3	bc	56	85	8	7	7	8	2-3	4-6	2500	1	1
Lerwick ...	1022.7	+8	WSW	5	c	55	97	8	8	3	-	4-6	7-8	800	1	*
Blacksod Point	1027.2	+10	W	2	bc	56	92	8	4	3	-	2-3	4-6	450	1	2
Malin Head ...	1026.9	+10	-	0	c	58	92	8	5	-	-	7-8	7-8	2500	0	0
Aldergrove ...	1027.3	+10	SW'S	1	c	59	92	7	5	-	-	9+	9+	1500	1	*
Birr Castle ...	1027.5	+4	S'E	1	c	58	97	8	5	3	-	7-8	9	2500	1	*
Valentia Obsy. †	1028.2	+8	-	0	o	59	85	8	5	-	-	10	10	1500	0	2
Roches Point	1028.4	+4	N	3	cF+	54	97	1	5	-	-	9	9	<150	1	1

PAST 24 HOURS

Stations	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 14th Hrs. (36)
London (Kew)	72	50	40	-	Tr	9.7
Croydon ...	71	47	41	-	Tr	9.5
S. Farnborough	73	42	38	-	-	9.7
Boscombe Down	72	48	44	-	Tr	11.2
Calshot (Sthmtn.)	71	53	51	-	-	12.7
Lympne ...	66	47	44	-	Tr	12.5
Manston ...	66	50	39	-	-	13.2
Shoeburyness ...	67	51	45	-	-	12.8
Felixstowe ...	68	51	46	-	-	12.7
Gorleston ...	68	52	49	-	-	8.4
Mildenhall ...	73	47	42	-	-	11.1
Cranwell ...	74	49	47	-	Tr	8.7
Birmingham ...	73	53	40	-	-	10.0
Upper Heyford	74	50	42	-	-	*
Ross-on-Wye	74	47	42	-	-	10.3
Hartland Point	66	58	50	-	-	12.3
Bristol ...	72	48	39	-	-	11.7
Portland Bill ...	68	56	*	-	-	*
Plymouth ...	70	50	45	-	-	13.0
The Lizard ...	68	54	*	-	-	13.6
Scilly (St. Mary's)	69	54	*	-	-	13.3
Guernsey ...	67	56	52	-	-	13.2
Pembroke ...	66	54	*	-	-	11.5
Holyhead ...	68	55	47	-	-	12.4
Chester (Sealand)	74	50	45	-	-	12.4
Manchester ...	72	44	42	-	-	5.8
Spurn Head ...	65	57	*	-	Tr	4.6
Catterick ...	73	53	50	-	-	6.0
Tynemouth ...	66	57	51	-	-	2.4
St. Abbs Head	72	56	*	-	-	*
Leuchars ...	71	57	49	Tr	0.2	0.1
Renfrew (Abbotsl.)	71	57	54	-	Tr	1.1
Eskdalemuir ...	68	46	41	-	-	2.3
Point of Ayre ...	69	54	*	-	-	9.6
Tiree ...	62	51	47	3	3	0.0
Stornoway ...	60	52	*	3	1	0.0
Dalwhinnie ...	63	54	50	-	1	0.0
Aberdeen ...	69	59	57	Tr	0.4	0.1
Wick ...	64	54	*	2	6	*
Lerwick ...	57	53	*	1	9	0.0
Blacksod Point	63	52	*	Tr	6	*
Malin Head ...	71	55	*	0.2	0.2	1.4
Aldergrove ...	75	57	53	-	-	4.9
Birr Castle ...	72	56	48	-	-	9.8
Valentia Obsy. †	67	54	49	-	Tr	12.4
Roches Point	66	52	*	Tr	0.1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (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	bcmjwcy	cybcy	bcybw	72	50	40	-	Tr	9.7	*	*	6
Croydon ...	217	bcc⊕y	cybc	bcbmjw	71	47	41	-	Tr	9.5	*	*	8
Greenwich (Royal Observatory) ...	149	bz₀c	bcyb	bwz₀	71	48	36	-	Tr	8.9	55	70	6
City (Gunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	73	53	48	-	-	6.8	57	68	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	73	52	43	-	-	7.0	57	73	*
Camden Square ...	110	o	bc	*	74	52	47	-	-	*	*	87	*
Kensington ...	80	bc	bc	*	73	52	44	-	-	7.6	At 18h 63	65	*
Hampstead Observatory ...	450	b	bc	bm	70	57	53	-	-	9.7	*	78	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.3	7-8h 14th	<0.3	22-23h 14th

Kew Observatory. Max.	Time.	Min.	Time.
<0.2	4-7h 15th	<0.1	20h 14th

FOREIGN OBSERVATIONS.

18h. G.M.T. 14th August

Stations	Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.
Paris ...	1023.7	NE	3	bc	70
Brussels ...	1025.0	N	4	cjp	64
Berlin ...	1023.2	NNW	4	u	61
Zurich ...	1020.7	NNE	2	b	70
Rome ...	1016.6	W	2	c	77

7h. G.M.T. 15th August

Stations	Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.
Paris ...	1026.7	NE	2	b	57
Brussels ...	1027.9	NE	2	b	57
Berlin ...	1024.6	N	2	z_0	61
Zurich ...	1022.7	NNE	2	b	57
Rome ...	1016.5	SE	1	b	70

Past 24 Hours.

Stations	Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	73	54	-	-
Brussels ...	72	52	-	-
Berlin ...	72	55	8	8
Zurich ...	77	54	-	-
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 ,,	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 Precipitous.
4 Rough.	9 Confused.

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

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

† 4 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 16th August, 1939.

No. 28391

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1027.9	-10	SE	2	b	71	45	7	-	-	-	0	0	-
	Croydon	1027.9	-6	ENE	1	b	73	55	8	4	-	-	Tr	Tr	4000
	S. Farnborough	1027.7	-12	ESE	1	bc	74	55	7	1	-	-	2-3	2-3	4000
	Boscombe Down	1027.6	-10	ESE	1	z_o	73	55	7	1	-	-	2-3	2-3	4000
	Calshot (Soton.)	1028.3	-2	ESE	3	b	70	65	8	1	-	-	Tr	Tr	2500
	Lympne	1028.1	-10	ESE	3	bc	65	75	8	1	-	-	4-6	4-6	4000
	Manston	1028.5	-10	E	2	bc	66	75	8	1	-	-	2-3	2-3	2500
2	Shoeburyness	1028.7	-12	ESE	3	b	67	75	8	1	-	-	Tr	Tr	2500
	Felixstowe	1028.9	-6	SE	3	b	68	65	8	1	-	-	Tr	Tr	2500
	Gorleston	1028.9	-6	SE	3	bc	68	75	7	1	-	-	2-3	2-3	2500
	Mildenhall	1027.7	-10	SE	2	b	73	55	8	1	-	-	Tr	Tr	4000
	Cranwell	1027.0	-10	-	0	z_o	75	65	6	1	3	9	2-3	4-6	4000
3	Birmingham	1027.4	-4	W	2	c	71	55	8	1	-	7	1	10	5700
	Upper Heyford	1027.4	-10	SSW	1	b	74	55	7	-	-	-	0	0	-
4	Ross-on-Wye	1027.1	-8	N'W	2	b	73	55	7	1	-	-	1	1	4000
5	Hartland Point	1028.0	-4	NE	2	b	64	75	8	-	-	-	0	0	-
	Bristol	1027.7	-10	-	0	z_o	74	55	6	7	-	-	4-6	4-6	4000
	Portland Bill	1028.8	+6	E	2	b	65	85	8	-	-	-	0	0	-
	Plymouth	1027.9	-6	SSE	3	b	65	65	7	1	-	-	Tr	Tr	4000
	The Lizard	1028.1	+2	ENE	2	b	68	75	8	-	-	-	0	0	-
	Scilly (St. Mary's)	1028.4	+2	E'S	3	b	70	75	8	-	-	-	0	0	-
	Guernsey	1027.3	-2	ENE	4	b	64	65	8	-	1	-	0	Tr	-
6	Pembroke	1028.7	-4	N'N	1	b	65	85	7	1	-	-	Tr	Tr	2500
7	Holyhead	1028.0	0	SSW	3	bc	66	65	8	1	3	9	Tr	2-3	2500
	Chester (Sealand)	1027.5	-10	-	0	bc	72	55	8	-	3	-	0	4-6	-
8	Manchester	1027.7	-6	W'N	2	z_o	71	55	6	-	3	-	0	Tr	-
10	Spurn Head	1027.4	-6	SE'S	4	bc	68	75	7	-	-	5	0	2-3	-
	Catterick	1029.9	-6	SW'W	2	bc	74	55	7	1	3	9	Tr	4-6	4000
	Tynemouth	1026.5	-6	E	1	bc	65	75	6	2	3	-	2-3	4-6	2500
11	St. Abbs Head	1026.4	0	NW	2	c	63	75	8	5	2	-	7-8	10	2500
	Leuchars	1025.8	-4	WSW	3	c	71	65	8	8	7	6	4-6	7-8	2500
12	Renfrew (Abbotsl.)	1026.6	-4	NW	2	c	64	85	8	6	7	-	9	10	1500
	Eskdalemuir	1026.7	-4	SWS	3	c	63	85	8	5	-	-	10	10	1500
	Point of Ayre	1027.3	0	NW'W	3	c	68	75	8	5	-	-	9+	9+	2500
13A	Tiree	1026.2	-2	SW'W	3	bc	60	85	8	2	3	-	4-6	4-6	2500
13B	Stornoway	1024.2	-4	SW	4	c	60	65	7	5	5	-	4-6	9+	2500
15	Dalwhinnie	1025.8	0	SW	4	c	65	65	8	4	6	1	7-8	10	2500
	Aberdeen	1026.0	+4	ENE	2	c	62	75	8	8	3	3	7-8	9	1500
	Wick	1024.9	-4	S	3	c	59	85	8	5	7	4	4-6	9	2500
16	Lerwick	1023.0	0	SW	5	c	57	85	8	8	7	1	4-6	7-8	1500
17	Blacksod Point	1028.0	+2	WNW	3	bc	63	85	8	2	-	-	2-3	2-3	4000
18	Malin Head	1027.1	-2	W	1	c	61	85	8	3	5	-	4-6	7-8	1500
	Aldergrove	1027.1	-4	SWS	1	c	68	65	8	8	-	-	9+	9+	2500
19	Birr Castle	1027.5	-2	S	1	id_o	64	75	8	5	-	-	10	10	2500
20	Valentia Obsy.†	1028.6	+2	WNW	2	$o_{bc/f}$	63	85	8	5	-	-	10	10	1500
	Roches Point	1028.5	0	SE	2		60	92	8	1	-	-	2-3	2-3	4000

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1026.9	-2	ESE	2	bc	72	45	8	1	-	4	Tr	2-3	5700	0	*
	Croydon	1026.9	-2	E'N	1	b	70	55	7	1	-	1	Tr	1	7200	0	*
	S. Farnborough	1026.9	-2	SW	3	bc	71	65	8	1	3	-	Tr	4-6	5700	0	*
	Boscombe Down	1027.3	+2	SSW	3	z_o	65	75	7	4	-	-	2-3	2-3	7200	0	*
	Calshot (Soton.)	1027.4	-2	E'S	2	b	67	75	8	-	-	-	0	0	-	0	2
	Lympne	1027.7	0	NE'E	3	b	63	65	9	-	-	-	0	0	-	0	§2
	Manston	1027.8	-2	ENE	2	b	63	75	8	-	4	-	0	Tr	-	0	*
2	Shoeburyness	1027.9	-4	E'S	3	b	64	75	9	-	4	-	0	Tr	-	0	*
	Felixstowe	1028.2	-4	SE	2	b	65	75	8	-	3	9	0	Tr	-	0	1
	Gorleston	1028.0	0	SE'S	3	bc	64	75	7	-	4	-	0	2-3	-	0	2
	Mildenhall	1026.7	-2	S'E	3	bc	70	55	8	-	4	-	0	4-6	-	0	*
	Cranwell	1025.9	-6	S	1	z_o	70	85	5	1	3	-	2-3	2-3	4000	0	*
3	Birmingham	1026.5	-4	-	0	bc	71	55	8	1	-	-	2-3	2-3	4000	1	*
	Upper Heyford	1026.8	-2	SW	1	bc	72	65	7	7	-	5	2-3	4-6	4000	0	*
4	Ross-on-Wye	1026.3	-6	WSW	2	z_o	73	65	6	7	-	-	2-3	2-3	4000	0	*
5	Hartland Point	1027.5	-2	NNE	2	b	63	75	8	-	-	-	0	0	-	0	1
	Bristol	1027.0	-2	W'N	2	b	69	65	7	4	-	-	1	1	4000	0	*
	Portland Bill	1027.9	-10	E	2	bc	62	85	8	5	-	-	2-3	2-3	4000	1	2
	Plymouth	1027.6	-4	SW'S	1	c	63	85	7	2	-	-	7-8	7-8	5700	0	1
	The Lizard	1027.5	-6	NE	1	bc	63	75	8	7	-	-	2-3	2-3	4000	0	1
	Scilly (St. Mary's)	1027.7	-6	NE	2	b	64	85	8	-	-	4	0	Tr	-	0	1
	Guernsey	1026.7	-6	NNE	3	b	68	75	8	-	1	-	0	Tr	-	0	1
6	Pembroke	1028.0	-6	NW	1	b	65	75	7	-	5	-	0	Tr	-	0	1
7	Holyhead	1027.2	-4	S'W	2	bc	62	85	8	-	3	-	0	2-3	-	0	1
	Chester (Sealand)	1027.1	-2	NW'W	3	b	66	65	7	-	3	-	0	1	-	0	*
8	Manchester	1027.0	-4	WNW	2	bc	68	65	7	-	3	-	0	2-3	-	0	*
10	Spurn Head	1026.2	-2	SE'S	3	bc	62	85	6	-	8	-	0	2-3	-	0	2
	Catterick	1025.7	-4	W'S	1	bc	69	55	8	2	3	1	Tr	2-3	4000	0	*
	Tynemouth	1025.3	-4	SE	2	bc	69	65	6	2	6	-	4-6	4-6	2500	1	1
11	St. Abbs Head	1025.2	-6	SSW	3	c	62	85	8	8	3	-	7-8	9+	1500	0	1
	Leuchars	1024.9	-2	W	2	c	68	65	9	4	7	-	4-6	9+	4000	0	*
12	Renfrew (Abbotsl.)	1026.3	0	NW'W	3	c	64	85	9	7	7	-	7-8	9+	2500	0	*
	Eskdalemuir	1025.6	-2	SSW	3	c	65	85	8	7	7	8	4-6	9+	1500	0	*
	Point of Ayre	1025.7	-2	WNW	2	bc	66	75	8	-	7	-	0	2-3	-	0	0
13A	Tiree	1026.1	0	WSW	1	c	58	75	8	5	-	-	9	9	2500	0	2
13B	Stornoway	1024.1	0	SSW	5	c	58	75	7	5	7	-	7-8	10	2500	1	3
15	Dalwhinnie	1024.8	-6	NE	1	c	59	75	8	4	1	-	2-3	10	2500	0	*
	Aberdeen	1024.6	+2	S	2	c	58	85	9	5	1	8	4-6	9	2500	1	1
	Wick	1022.4	0	SW'W	5	c	55	92	8	5	7	-	4-6	9	1500	1	*
16	Lerwick																
17	Blacksod Point	1027.7	0	W	3	bc	60	75	9	2	-	4	2-3	4-6	4000	0	2
18	Malin Head	1026.9	0	NW	1	c	59	85	8	6	7	-	2-3	9	4000	0	2
	Aldergrove	1026.1	+2	SW	2	c	66	75	9	4	1	-	9	9+	2500	1	*
19	Birr Castle	1027.3	-4	S	1	c	65	85	8	8	2	-	7-8	10	1500	1	*
20	Valentia Obsy.†	1028.4	-2	NW'W	2	c	61	92	8	5	-	-	10	10	800	0	1
	Roches Point	1027.7	-6	SW	3	bc	63	85	8	5	3	-	2-3	4-6	2500	1	1

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 15th. (37)	Weather. 13h.—18h. 15th. (38)	Weather. 18h. 15th to 1h. 16th (39)	Weather. 1h.—7h. 16th. (40)
1	London (Kew)	bz.by	by	bybbcw	bcbm.w
	Croydon	bby	by	bybmbcw	bwm.
	S. Farnborough	m.by	bybc	bcbw	bwjf
	Boscombe Down	bm.bcz.	bcz.	bz.b	bcmbfmf
	Calshot (Soton.)	bm.bz.b	b	bbwm.	bm.bcm.
	Lympne	bbcv	bcbv	bw	bwfg
	Manston	cb	b	bbfgbw	bffm.
2	Shoeburyness	b	b	bw	bbcwm⊕
	Felixstowe	bm.bv	b	b⊕	bw.c
	Gorleston	bc	bc	bcb	bbcc
	Mildenhall	bwbby	bybcy	bcyb	bwcm.
	Cranwell	bccz.	bcz.	bccbm.	bbcwcm
3	Birmingham	mbc	cbc	bc	bcfm
	Upper Heyford	bfmz.y	bcy	cz.bcm.b	bbm.fm
4	Ross-on-Wye	bmbz.	by	bz.	bmw
5	Hartland Point	b	b	b	b
	Bristol	bz.bcy	bcyb	bm.wm	bwmfm.
	Portland Bill	b	bbc	bcb	b
	Plymouth	mbbmbz.bc	cbwm.	bwbm.	
	The Lizard	bcb	bbc	bcb	b
	Scilly (St. Mary's)	b	b	bw	bwbc
	Guernsey	bcb	b	bw	bwbcw
6	Pembroke	bz.	bz.	b	bcm.
7	Holyhead	cbc	b.bc	cbm.	bm.wc
	Chester (Sealand)	b.cwm.bcbcyb	bbcbm.w	bwfz.cm	
8	Manchester	bjcbz.y	bz.ybcybb	bcm.w	bcfw
10	Spurn Head	bc	bc	bmw	bmc
	Catterick	bc.wbc	bcyby	bybcbm	bbccm.
	Tynemouth	bcmbc	bc	bcc	c
11	St. Abbs Head	c	irc	c	c
	Leuchars	cbcc	cbcc	ccw	cwc
12	Renfrew (Abbotsl.)	cm.c	circ	c	ccir.
	Eskdalemuir	cwc	cbcc	c	cw
	Point of Ayre	cbcc	cbc	bc	circ
13A	Tiree	bc	bcc	c	cdr.
13B	Stornoway	cpr.	c	c	cpr.
15	Dalwhinnie	c	c		cir.
	Aberdeen	cbcc	c	c	cbcwz.
	Wick	bcc	cbcc	c	c
16	Lerwick	cpr.	c	c	cpr
17	Blacksod Point	bc	bc	bc	bc
18	Malin Head	cbcc	cbcc	c	c
	Aldergrove	cbcc	cbcc	c	ccir.c
19	Birr Castle	cid.	cid.c	cb	bbc
20	Valentia Obsy.†	o	oc	cw	cwc
	Roches Point	Feffbc	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.

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.*

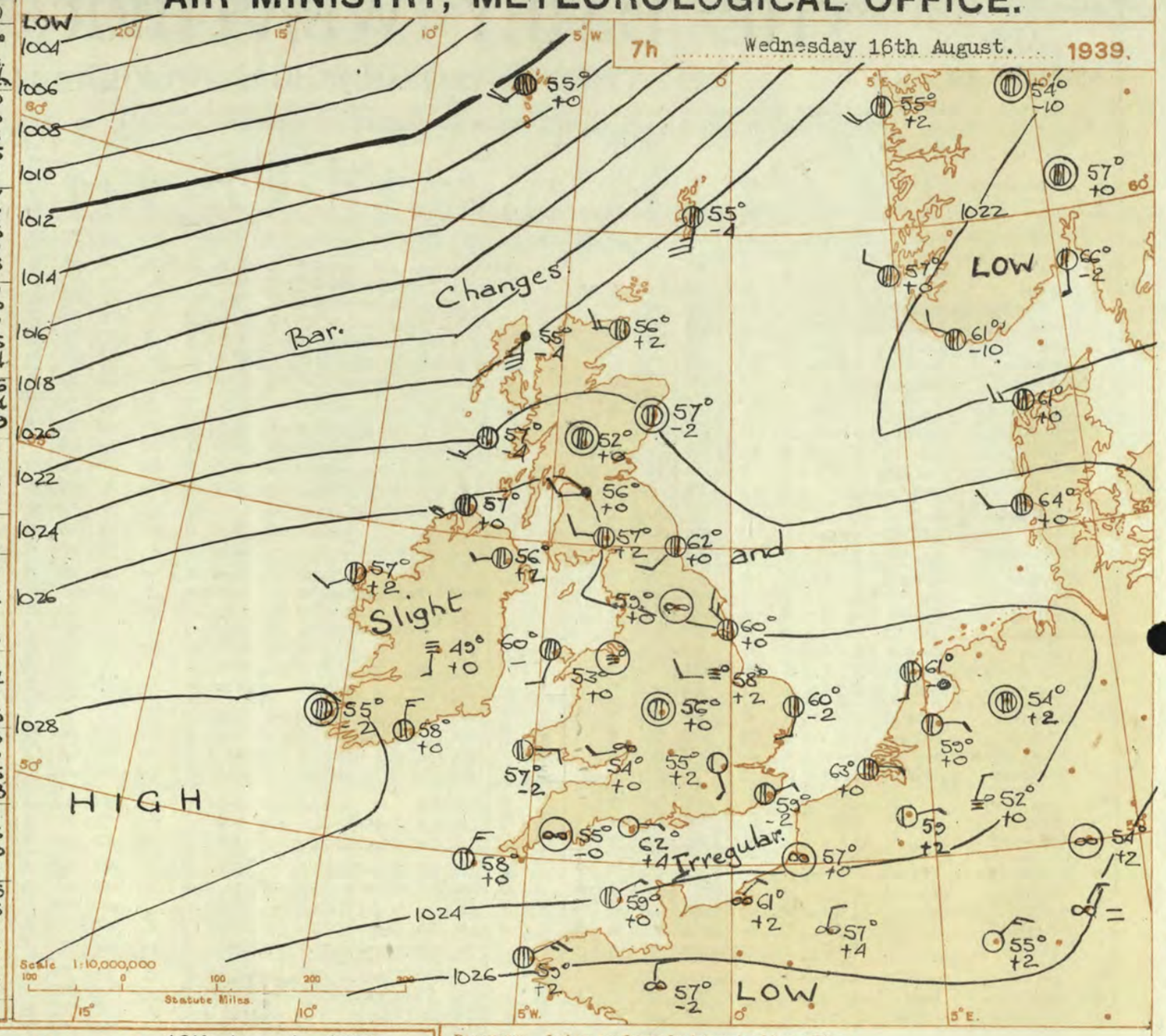
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 15th August 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 14th to 9h. 15th	Temperature. (°F) Max. 9h.—17h. 15th	Rainfall. (mm.) Night. 17h. 14th to 9h. 15th	Rainfall. (mm.) Day. 9h.—17h. 15th	Sunshine. (Hrs.) Sunrise to 17h. 15th	Sunshine. (Hrs.) Sunrise to Sunset. 14th
1	Tunbridge W.	b	b	44	77	-	-	11·5	12·0
	Bournemouth	b	b	50	70	-	-	10·2	12·0
	Ventnor ...	b	b	56	70	-	-	11·1	12·5
	Southsea ...	b	b	53	69	-	-	11·1	12·5
	Bognor Regis	b	b	48	67	-	-	11·2	11·7
	Littlehampton	b	b	50	68	-	-	11·2	11·7
	Worthing ...	b	b	54	67	-	-	11·3	12·2
	Brighton ...	b	b	52	68	-	-	11·1	11·8
	Eastbourne† ...	b	bv	53	68	-	-	11·7	11·9
	Hastings† ...	bcb	b	52	67	-	-	11·8	11·5
	Folkestone ...	bc	bcb	54	68	-	-	11·4	13·0
	Dover ...	bc	b	51	68	-	-	11·0	13·0
	Deal	cbcb	b	50	71	-	-	10·3	13·2
	Ramsgate ...	b	b	59	67	-	-	11·0	13·5
	Margate ...	bc	bcb	58	66	-	-	11·0	13·4
2	Southend ...	b	b	54	73	-	-	11·8	12·6
	Clacton-on-Sea	bcb	bv	53	69	-	-	11·3	13·4
	Dovercourt ...	bc	bv	52	69	-	-	11·7	12·9
	Lowestoft ...	b	b	48	66	-	-	11·8	9·5
	Skegness ...	b	b	56	71	-	-	11·3	8·5
	Mablethorpe...	b	b	53	73	-	-	10·4	5·4
	Cleethorpes ...	b	bvbc	50	76	-	-	9·6	5·0
3	Leamington S.	bz	bc	50	76	-	-	10·2	9·1
4	Cheltenham†	wb	by	50	78	-	-	10·8	9·8
5	Bath	b	bbc	48	76	-	-	9·0	10·4
	Weymouth ...	b	b	49	68	-	-	11·4	13·3
	Jersey ...	b	b	59	71	-	-	11·8	13·4
	Torquay ...	wbzb	b	51	66	-	-	11·3	13·1
	Falmouth ...	b	b	53	69	-	-	11·0	13·5
	Penzance ...	b	b	52	72	-	-	11·1	13·0
	St. Ives ...	b	b	54	68	-	-	10·9	13·4
	Bude... ...	wb	b	46	71	-	-	10·7	10·5
	Ilfracombe ...	bbz	bz	56	70	-	-	11·1	12·8
6	Aberystwyth	bc	bbc	51	68	-	-	11·4	12·5
7	Llandudno ...	bcb	bbcb	54	70	-	-	7·9	13·0
	Colwyn Bay...	cbccb	cbcb	51	67	-	-	8·2	12·6
	Rhyl	cbc	bcb	51	70	-	-	6·9	12·3
8	Wallasey ...	cbc	bbc	56	68	-	-	6·8	11·0
	Southport ...	bczb	b	52	71	-	-	8·1	11·6
	Blackpool ...	bcb	bbcb	52	68	-	-	8·9	12·0
	Morecambe ...	bcb	bbc	53	67	-	-	8·6	11·0
9	Ilkley... ...	bc	b	53	75	-	-	9·8	11·5
	Harrogate ...	bcb	b	53	73	-	-	9·8	8·5
10	Berwick-on-T.	bc	c	55	69	-	-	4·1	1·5
11	Dunbar ...	cpr.	cm.	54	69	0·5	-	0·8	1·4
12	Troon... ...	bcc	coc		66	-	-	1·9	4·0
	Douglas ...	bc	bc	55	70	-	-	6·1	10·8

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind variable, light; fine; early morning fog or mist locally; warm.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Wind mainly westerly, light; fair; rather warm.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind west to southwest, light to moderate; cloudy, light local rain at times; fair periods; rather warm.
13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland	Wind southwest, moderate to fresh or strong locally on the coast; mainly cloudy; occasional rain or drizzle to-morrow; average temperature.
15 N. E. Scotland 16 Orkney and Shetland	Wind southwest, fresh to strong locally; cloudy, occasional rain or drizzle to-day, then a fairer period; average temperature.
17 N. W. Ireland	As 11 - 13A.
18 N. E. Ireland	As 7 - 10.
19 S. E. Ireland 20 S. W. Ireland	As 1 - 6.

GENERAL INFERENCE.

A belt of high pressure extends from the Atlantic across England to Scandinavia whilst a depression northwest of Iceland will move northeast. Weather will be fair or fine over England, Wales and most of Ireland, but there will be some occasional light rain in parts of Scotland.

FURTHER OUTLOOK.

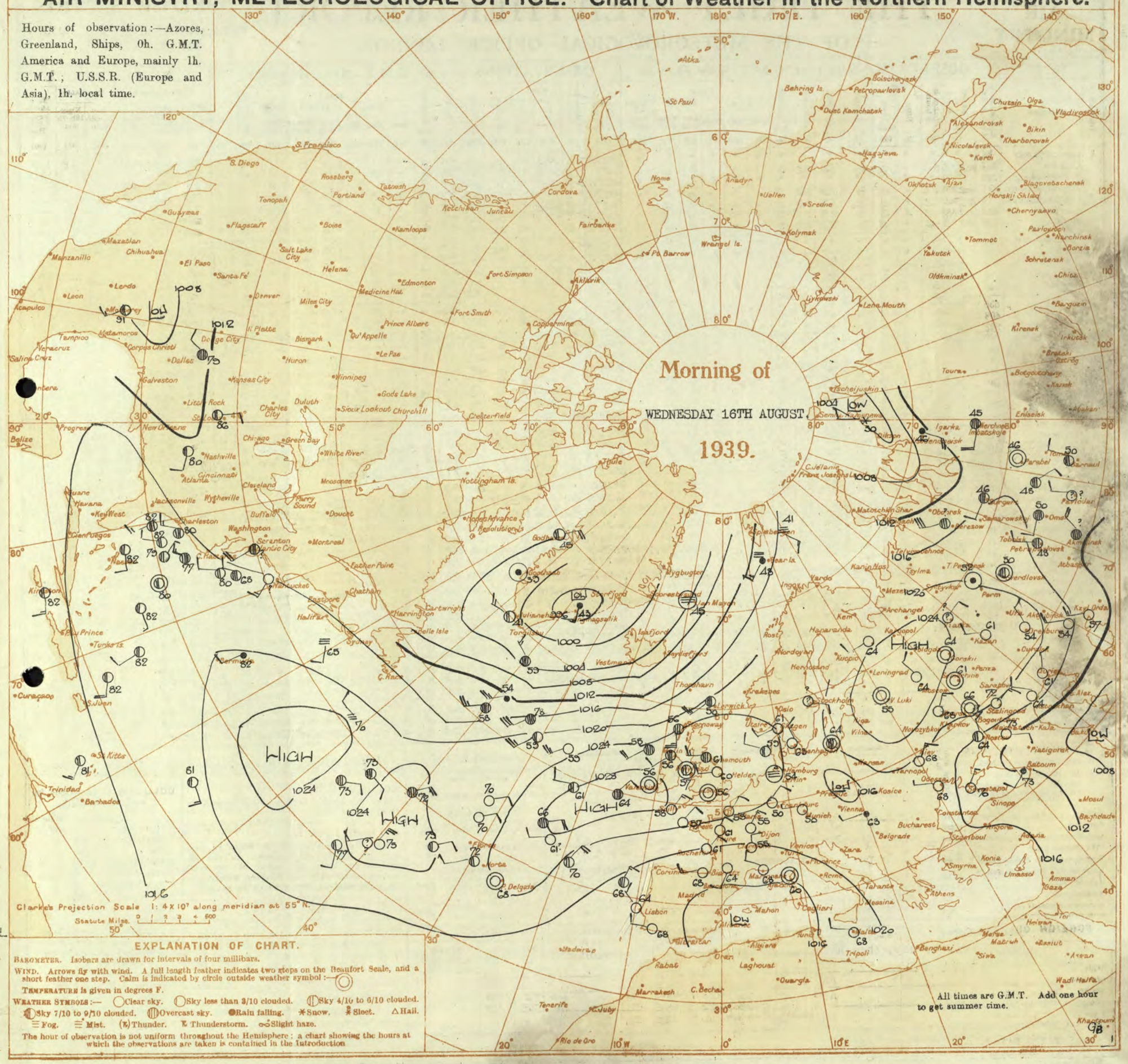
Continuing fair over most of England, Wales and Ireland.

Forecasts issued at 0930 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

Wednesday 16th August, 1939.
No. 28391

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1027·4	-4	-	0	b	56	92	6	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1027·5	-4	-	0	b	55	92	7	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1027·4	-2	-	0	Z_0	58	92	6	-	-	-	0	0	-
	Lympne ...	346	1027·8	-2	E	2	b	48	97	8	-	-	-	0	0	-
	Manston ...	154	1027·3	-6	-	0	b	53	92	8	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1027·2	-4	S'W	2	b	58	85	7	-	-	-	0	0	-
	Mildenhall ...	19	1026·8	0	S'E	2	b	54	85	7	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027·4	-4	NNE	2	b	61	75	8	-	-	-	0	0	-
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1027·0	-6	N	2	b	60	75	8	-	-	-	0	0	-
	Plymouth ...	82	1027·7	-2	-	0	Z_0	54	92	6	-	-	-	0	0	-
	The Lizard ...	240	1027·7	-2	NE	3	b	57	85	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1028·0	+2	NE'N	3	b	58	97	8	-	-	-	0	0	-
	Guernsey ...	175	1026·6	0	N'E	2	b	56	97	9	-	-	-	0	0	-
6	Pembroke ...	142	1027·6	-2	-	0	b	60	85	7	-	-	-	0	0	-
7	Holyhead ...	26	1027·1	-2	-	0	bc	57	97	6	-	-	5	0	2-3	-
	Chester (Sealand)	16	1027·4	-2	-	0	f	52	92	6	-	-	-	0	0	-
8	Manchester ...	70	*	*	*	*	*g	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1026·2	-2	W	2	m	60	92	4	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1025·6	+4	W	3	c	61	92	7	5	-	-	7-8	7-8	1500
11	St. Abbs Head	280	1025·3	-4	W	3	c	61	65	7	8	6	-	7-8	10	2500
	Leuchars ...	36	1025·1	-6	W	2	c	58	92	9	-	7	-	0	10	-
12	Renfrew (Abbots I.)	19	1026·3	-4	NW	1	c	55	85	9	5	-	-	7-8	7-8	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1026·7	0	W'S	2	bc	58	97	8	5	-	-	2-3	2-3	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1023·1	-6	S	5	c	56	85	7	5	7	-	4·6	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1023·5	-8	SSW	2	c	55	92	8	5	7	-	4·6	7-8	1500
16	Lerwick ...	156	1022·2	-10	SW	5	c	50	85	8	5	7	-	7-8	9	1500
17	Blacksod Point	18	1027·7	-4	-	0	b	56	85	8	-	-	-	0	0	-
18	Malin Head ...	84	1027·0	-2	SW	2	c	56	85	7	8	-	-	9	9	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1028·9	+2	-	0	b	56	97	7	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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	0	S'W	1	Z_0	58	85	6	-	-	-	0	0	-	0	*
Croydon ...	1027·1	+2	SSE	1	b	55	85	6	-	3	1	0	1	-	0	*
S. Farnborough	1027·0	+2	S'E	1	b	54	97	7	-	-	-	0	0	-	0	*
Boscombe Down	1027·2	-2	-	0	bcf+	53	97	3	5	3	-	Tr	2-3	4000	1	*
Calshot (Sthmtn.)	1027·1	+2	NW'N	1	Z_0	58	92	6	7	4	-	2-3	2-3	4000	0	0
Lympne ...	1027·0	-2	NE'E	1	bc	59	97	8	-	-	6	0	2-3	-	0	§1
Manston ...	1027·2	-2	-	0	Z_0	59	97	6	-	-	8	0	7-8	-	0	*
Shoeburyness ...	1027·3	+2	-	0	bc	60	85	6	-	-	2	0	4·6	-	0	*
Felixstowe ...	1027·2	0	WSW	2	c	60	97	7	-	7	7	0	9+	-	0	1
Gorleston ...	1026·6	-2	S'W	2	c	60	85	7	-	5	5	0	7-8	-	0	2
Mildenhall ...	1026·4	0	SW'W	2	Z_0	57	92	6	-	7	-	0	10	-	1	*
Cranwell ...	1026·4	+2	W	2	m	58	85	4	-	7	-	0	9+	-	0	*
Birmingham ...	1027·2	0	-	0	m	56	85	4	-	9	-	0	4·6	-	1	*
Upper Heyford	1027·3	+2	NNW	2	m	55	92	4	-	-	-	0	0	-	0	*
Ross-on-Wye	1027·0	0	WSW	1	Z_0	54	92	5	-	5	-	0	2·3	-	0	*
Hartland Point	1026·9	-2	NE	1	b	62	75	8	-	-	-	0	0	-	0	1
Bristol ...	1027·4	+2	-	0	Z_0	55	97	6	-	-	-	0	0	-	0	*
Portland Bill ...	1026·6	+4	E	1	b	62	85	7	-	-	-	0	0	-	1	2
Plymouth ...	1027·1	0	-	0	Z_0	55	85	5	-	-	-	0	0	-	0	0
The Lizard ...	1027·2	-6	NE	3	b	59	85	8	-	-	-	0	0	-	0	1
Scilly (St. Mary's)	1027·3	0	NE'N	3	bc	58	92	7	-	-	2	0	2·3	-	0	1
Guernsey ...	1026·1	0	NE	1	Z_0	59	92	6	-	-	1	0	2·3	-	0	1
Pembroke ...	1026·2	-2	E'S	2	bc	57	97	6	7	6	1	1	4·6	2500	0	0
Holyhead ...	1026·7	*	SSW	2	c	60	97	6	5	3	-	7-8	9+	4000	0	1
Chester (Sealand)	1027·3	0	-	0	m	53	92	4	5	-	-	9+	9+	5700	0	*
Manchester ...	1027·0	+6	-	0	bcf-	54	97	3	-	3	-	0	4·6	-	0	*
Spurn Head ...	1025·8	0	NW'W	3	m	60	85	4	5	-	-	10	10	2500	0	2
Catterick ...	1025·8	0	-	0	Z_0	59	92	6	5	3	-	4·6	9+	4000	0	*
Tynemouth ...	1025·3	0	SW	2	c	62	85	5	5	3	-	4·6	7-8	1500	1	1
St. Abbs Head	1024·7	-10	W	3	c	58	65	8	4	7	-	4·6	9+	2500	0	2
Leuchars ...	1024·3	-2	WSW	2	c	56	85	9	-	7	-	0	10	-	0	*
Renfrew (Abbots I.)	1025·9	0	W'S	2	ir_0	56	85	8	5	7	-	4·6	9+	2500	0	*
Eskdalemuir ...	1025·8	+2	W	2	c	57	85	7	5	7	1	1	9	1500	1	*
Point of Ayre ...	1026·4	0	NW'W	2	c	59	97	8	4	7	-	Tr	9+	2500	0	1
Tiree ...	1024·5	-4	SW'S	3	c	57	92	7	5	-	-	9+	9+	1500	1	3
Stornoway ...	1021·8	-4	S	6	d_0d_0	55	92	6	5	2	-	4·6	10	1500	1	3
Dalwhinnie ...	1025·7	0	-	0	c	52	85	8	5	2	-	1	10	2500	1	*
Aberdeen ...	1023·6	-2	-	0	bc	57	85	6	-	3	2	0	4-6	-	0	1
Wick ...	1022·8	+2	W	3	c	56	85	8	5	7	8	4·6	9+	2500	1	1
Lerwick ...	1021·8	-4	S'W	5	c/pr	55	85	8	8	7	-	7-8	10	1500	1	*
Blacksod Point	1027·1	+2	SW	2	bc	57	92	8	4	5	-	2·3	4-6	800	0	2
Malin Head ...	1026·2	0	SW	4	c	57	85	8	8	-	4	4·6	7-8	4000	0	3
Aldergrove ...	1027·0	+2	W'S	1	c	56	85	8	5	7	-	Tr	9+	1500	1	*
Birr Castle ...	1027·7	0	S	1	bcf-	49	97	3	-	4	6	0	4-6	-	1	*
Valentia Obsy. †	1028·2	-2	-	0	c	55	97	9	5	-	1	7-8	7-8	2500	0	1
Roches Point	1027·3	0	N	3	bc	58	92	9	5	-	1	4·6	4-6	2500	1	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 18h Hrs. (36)
London (Kew)	74	53	44	-	Tr	11·8
Croydon ...	75	51	47	-	-	12·6
S. Farnborough	75	48	43	-	-	10·9
Boscombe Down	75	50	47	-	-	9·3
Calshot (Sthmtn.)	71	55	52	-	-	13·0
Lympne ...	67	47	44	-	Tr	11·7
Manston ...	68	49	37	-	Tr	10·8
Shoeburyness ...	68	51	40	-	-	13·1
Felixstowe ...	69	53	46	-	-	13·1
Gorleston ...	65	55	54	-	-	13·2
Mildenhall ...	76	52	46	-	-	12·9
Cranwell ...	76	55	53	-	-	7·8
Birmingham ...	73	54	43	-	-	4·8
Upper Heyford	77	52	46	-	-	*
Ross-on-Wye	76	49	43	-	-	10·6
Hartland Point	66	58	51	-	-	12·8
Bristol ...	76	51	41	-	-	9·8
Portland Bill ...	65	59	*	-	-	*
Plymouth ...	66	53	49	-	-	10
The Lizard ...	69	55	*	-	-	13·0
Scilly (St. Mary's)	70	55	*	-	Tr	13·2
Guernsey ...	66	55	48	-	-	13·6
Pembroke ...	66	54	*	-	-	12·8
Holyhead ...	67	56	52	-	-	10·1
Chester (Sealand)	76	49	45	-	-	10·1
Manchester ...	72	47	43	-	-	8·6
Spurn Head ...	69	59	*	-	Tr	10·2
Catterick ...	75	54	52	-	-	10·3
Tynemouth ...	(69)	58	57	-	-	8·1
St. Abbs Head	67	57	*	Tr	0·3	*
Leuchars ...	73	53	48	-	-	3·1
Renfrew (Abbots I.)	66	54	51	Tr	Tr	0·1
Eskdalemuir ...	69	54	53	-	-	1·8
Point of Ayre ...	71	56	*	-	Tr	10·5
Tiree ...	61	55	53	-	0·4	7·8
Stornoway ...	61	55	*	Tr	Tr	1·2
Dalwhinnie ...	66	49	42	-	0·1	2·5
Aberdeen ...	68	52	48	-	-	4·8
Wick ...	62	54	*	-	-	*
Lerwick ...	58	53	*	Tr	Tr	7·0
Blacksod Point	63	52	*	-	-	*
Malin Head ...	61	53	*	-	-	3·4
Aldergrove ...	70	55	51	-	Tr	2·9
Birr Castle ...	67	48	37	Tr	-	0·6
Valentia Obsy. †	64	53	46	-	Tr	0·0
Roches Point	64	57	*	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	bz_0by	by	bybbw	74	53	44	-	Tr	11·8	*	*	8
Croydon ...	217	bby	by	bybnbw	75	51	47	-	-	12·6	*	*	8
Greenwich (Royal Observatory) ...	149	bz_0y	by	bcwbz$_0$	73	51	40	-	-	11·9	47	63	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	75	55	51	-	-	12·2	60	72	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	75	55	45	-	-	9·6	52	69	*
Camden Square ...	110	o	o	*	76	56	50	-	-	*	*	68	*
Kensington ...	80	bz	bc	*	76	55	48	-	-	11·8	At 18h 4/6	61	*
Hampstead Observatory ...	450	bm	bc	bc	71	55	51	-	-	10·0	*	51	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 16th

South Kensington. Max.	Time.	Min.	Time.
<0·3	whole period.		

Kew Observatory. Max.	Time.	Min.	Time.
0·2	7h. 15th	<0·1	17h 15th

FOREIGN OBSERVATIONS.

18h. G.M.T. 15th August

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris ...	1024·9	NE	3	b	72
Brussels ...	1026·3	NE	2	b	68
Berlin ...	1022·2	N	4	c	68
Zurich ...	1022·0	NNE	1	b	68
Rome ...	1014·4	S	2	bc	79

7h. G.M.T. 16th August

Stations.	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 ...	1025·5	NNE	2	Z_0	57	75	54	-	-
Brussels ...	1026·4	ENE	1	b	59	72	52	-	-
Berlin ...	1020·7	NNW	4	ir_0	64	72	59	0·3	0·1
Zurich ...	1022·4	NNE	2	b	*	75	59	-	-
Rome ...	1014·3	NE	2	b	70	*	*	-	-

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 17th August, 1939.

No. 26392.

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

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)	1025.5	-8	WNW	1	bc	73	55	7	-	-	4	0	2-3	-
	Croydon	1025.5	-10	-	0	c	75	55	7	7	-	-	2-3	9+	5700
	S. Farnborough	1025.2	-12	WSW	1	c	76	55	7	1	-	7	4-6	9	4000
	Boscombe Down	1025.1	-12	-	0	0	75	65	6	1	-	-	2-3	2-3	4000
	Calshot (Soton.)	1026.0	-6	ESE	3	bc	72	65	7	1	6	6	Tr	2-3	4000
	Lympne	1026.3	-2	SE	2	c	68	65	8	1	-	6	Tr	9	4000
	Manston	1026.1	-16	SE	1	c	68	65	8	1	-	8	Tr	9+	4000
2	Shoeburyness	1026.0	-6	SSE	2	c	69	55	7	-	1	7	0	10	-
	Felixstowe	1026.2	-6	S	3	c⊕	67	65	8	-	-	7	0	10	-
	Gorleston	1025.6	-4	SSE	2	c	65	75	7	7	-	-	7-8	7-8	2500
	Mildenhall	1025.5	-6	NE	1	0	70	65	6	-	-	9	0	9	-
	Cranwell	1025.4	-8	NNW	2	c	74	55	7	1	5	2	Tr	9	4000
3	Birmingham	1025.8	-2	NW	2	c	69	65	7	8	-	8	4-6	9+	4000
	Upper Heyford	1025.4	-10	NW	1	0	73	55	6	-	-	6	0	4-6	-
4	Ross-on-Wye	1025.6	-8	NW	2	bc	72	55	8	1	-	2	Tr	2-3	4000
5	Hartland Point	1026.7	0	NE	1	bc	64	85	8	4	-	-	2-3	2-3	4000
	Bristol	1026.1	-8	NNW	2	bc	73	35	7	-	-	8	0	2-3	-
	Portland Bill	1026.0	-2	SE	1	b	67	85	8	-	-	-	0	0	-
	Plymouth	1025.6	-8	SW	3	b	67	75	7	1	-	-	Tr	Tr	4000
	The Lizard	1026.0	-4	E	1	b	71	65	7	-	-	-	0	0	-
	Scilly (St. Mary's)	1026.7	-2	NE	3	b	68	75	7	-	-	-	0	0	-
	Guernsey	1024.9	-8	ENE	2	b	67	65	7	-	1	-	0	Tr	-
6	Pembroke	1026.5	-6	NNW	2	bc	68	85	7	3	7	1	2-3	4-6	2500
7	Holyhead	1027.1	0	NW	2	c	62	85	8	1	8	6	Tr	7-8	2500
	Chester (Sealand)	1026.7	-2	NNW	4	0	68	75	6	7	3	4	2-3	7-8	4000
8	Manchester	1026.3	-2	NW	3	c	69	65	7	1	3	1	7-8	7-8	4000
10	Spurn Head	1025.5	-2	E'S	2	c	68	75	6	-	7	-	0	7-8	-
	Catterick	1024.8	-6	NW	2	c	71	65	8	2	4	-	4-6	7-8	2500
	Tynemouth	1024.4	-4	W	3	bc	71	55	7	2	3	1	2-3	4-6	2500
11	St. Abbs Head	1024.3	0	WNW	3	c	62	75	8	7	3	1	4-6	7-8	2500
	Leuchars	1024.4	0	WSW	2	c	63	75	9	5	7	-	4-6	9+	2500
12	Renfrew (Abbotsl.)	1025.9	-2	NW	3	c	63	75	8	5	3	-	9	9	2500
	Eskdalemuir	1025.0	0	W	2	bc	66	65	8	1	9	-	1	4-6	4000
	Point of Ayre	1026.8	0	NNW	2	b	66	75	8	1	-	9	Tr	1	2500
13A	Tiree	1025.1	+4	SW	4	c	60	85	8	5	-	-	9+	9+	2500
13B	Stornoway	1022.5	+6	SW	4	c	60	85	7	6	7	-	7-8	10	1500
15	Dalwhinnie	1025.5	0	W	4	c	63	75	8	4	6	1	4-6	10	2500
	Aberdeen	1023.6	-2	E	1	c	63	75	7	-	7	-	0	9	-
	Wick	1022.3	-2	SW	3	cpr	59	85	8	5	1	8	4-6	9+	1500
16	Lerwick	1020.2	-4	S	6	c	55	92	8	5	7	-	7-8	9+	1500
17	Blacksod Point	1027.2	0	WS	4	bc	63	85	8	3	-	-	2-3	2-3	800
18	Malin Head	1025.9	+2	W	4	bc	61	75	8	3	-	-	4-6	4-6	5700
	Aldergrove	1026.7	0	WSW	2	bc	67	65	8	1	4	-	2-3	2-3	2500
19	Birr Castle	1027.0	-2	WSW	1	bc	66	65	8	5	4	1	2-3	2-3	2500
20	Valentia Obsy.†	1027.7	-2	NW	3	bc	63	75	9	1	-	4	1	2-3	2500
	Rocies Point	1027.4	-2	SE	2	bc	65	85	9	8	-	5	4-6	4-6	2500

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

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)	1024.0	-10	N	1	c	73	65	7	5	5	-	7-8	7-8	5700	0	*
	Croydon	1024.1	-6	-	0	c	73	75	6	-	3	8	0	9	-	0	*
	S. Farnborough	1023.9	-6	SW	2	c	71	65	8	4	-	6	4-6	9+	4000	0	*
	Boscombe Down	1024.3	-2	SE	2	0	71	75	6	2	-	-	9	9	2500	0	*
	Calshot (Soton.)	1024.3	-8	SSW	1	bc	69	75	7	-	8	1	0	4-6	-	0	1
	Lympne	1024.5	-6	SE'E	2	bc	64	75	8	-	4	2	0	2-3	-	0	§0
	Manston	1024.6	-6	E'N	1	bc	66	65	8	-	4	2	0	4-6	-	0	*
2	Shoeburyness	1024.5	-10	SE	1	c	66	75	8	-	3	8	0	7-8	-	0	*
	Felixstowe	1024.6	-10	S	2	b	66	85	8	1	5	-	Tr	Tr	5700	0	1
	Gorleston	1024.5	-6	SSE	2	bc	67	75	7	-	1	-	0	4-6	-	0	2
	Mildenhall	1024.1	-6	-	0	0	71	45	6	-	7	-	0	2-3	-	0	*
	Cranwell	1024.3	-4	NE	1	0	69	75	6	7	3	1	2-3	7-8	4000	0	*
3	Birmingham	1024.5	-6	N	3	bc	72	55	8	1	-	1	1	2-3	4000	1	*
	Upper Heyford	1024.7	-4	N	1	0	70	65	6	-	-	6	0	2-3	-	0	*
4	Ross-on-Wye	1024.2	-10	NE	2	bc	72	55	8	1	-	1	Tr	2-3	4000	0	*
5	Hartland Point	1024.8	-4	N	1	b	63	92	8	-	-	1	0	Tr	-	0	1
	Bristol	1024.7	-4	NNE	2	bc	72	55	8	-	3	9	0	4-6	-	0	*
	Portland Bill	1024.2	-10	NW	1	b	65	75	8	-	-	-	0	0	-	1	2
	Plymouth	1024.3	-6	SSW	2	0	64	85	6	1	-	-	2-3	2-3	4000	0	1
	The Lizard	1024.3	-1	-	0	b	68	75	7	-	-	-	0	0	-	0	0
	Scilly (St. Mary's)	1025.1	-10	NE'N	2	b	65	85	7	-	-	2	0	1	-	0	2
	Guernsey	1023.1	-6	NNE	3	b	65	75	7	-	1	-	0	1	-	0	1
6	Pembroke	1025.5	-8	NE'N	4	bc	66	75	8	7	8	1	2-3	4-6	2500	0	1
7	Holyhead	1025.9	-8	-	0	b	61	85	9	1	-	1	Tr	1	4000	0	0
	Chester (Sealand)	1025.9	-4	WNW	3	bc	65	75	7	1	-	6	1	2-3	4000	0	*
8	Manchester	1025.3	-8	WNW	2	bc	68	65	8	-	-	6	0	4-6	-	0	*
10	Spurn Head	1024.9	-4	ESE	2	bc	63	85	6	-	8	8	0	4-6	-	0	1
	Catterick	1024.3	+2	-	0	c	71	55	8	7	-	6	4-6	9	2500	0	*
	Tynemouth	1024.8	+2	W	1	bc	65	75	6	8	3	2	2-3	4-6	2500	0	1
11	St. Abbs Head	1024.2	0	WNW	3	c	63	75	8	7	4	9	4-6	9	2500	0	1
	Leuchars	1023.7	-2	WSW	3	bc	69	55	8	5	7	2	Tr	4-6	5700	0	*
12	Renfrew (Abbotsl.)	1025.5	-2	NW	3	bc	63	75	8	1	-	1	2-3	4-6	4000	0	*
	Eskdalemuir	1024.6	+2	WNW	3	c	64	65	8	1	-	6	1	7-8	4000	1	*
	Point of Ayre	1026.2	-4	NW'N	2	bc	64	75	8	-	-	2	0	2-3	-	0	1
13A	Tiree	1025.0	0	SW	3	c	55	66	8	5	-	-	9+	9+	2500	0	2
13B	Stornoway	1022.7	0	SW	5	c	59	75	8	8	7	-	7-8	9+	2500	1	3
15	Dalwhinnie	*	0	W	3	c	60	75	8	-	6	4	0	7-8	-	0	*
	Aberdeen	1023.4	-2	S	2	c	64	65	7	5	3	6	2-3	7-8	4000	0	1
	Wick	1022.3	+4	W	3	c	62	75	8	5	7	8	7-8	9+	1500	1	1
16	Lerwick	1021.0	+2	SW'W	5	c	55	92	7	8	2	-	4-6	10	800	1	*
17	Blacksod Point	1026.1	-10	W	3	bc	61	85	8	1	-	-	2-3	2-3	1500	0	2
18	Malin Head	1025.6	-2	W	4	bc	60	85	8	-	4	-	0	2-3	-	0	3
	Aldergrove	1025.4	-10	W	2	bc	69	65	8	5	-	1	2-3	2-3	2500	1	*
19	Birr Castle	1025.8	-8	W'N	2	bc	69	65	8	1	3	-	4-6	4-6	2500	0	*
20	Valentia Obsy.†	1026.7	-6	NNW	3	c	62	75	9	5	-	-	7-8	7-8	4000	0	1
	Rocies Point	1025.9	-4	SW	2	bc	64	85	9	5	-	1	1	2-3	2500	1	1

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 16th (37)	Weather. 13h.—18h. 16th (38)	Weather. 18h. 16th to 1h. 17th (39)	Weather. 1h.—7h. 17th (40)
1	London (Kew)	bbcy	bczcz	czbmw	bmfefew
	Croydon	bbc,cy	cycz	cbczbcbmw	bmw
	S. Farnborough	mb⊕cy	cbczc	cbw	bwFe
	Boscombe Down	bmbcz	bcz	czbcbm	bmbmbm
	Calshot (Soton.)	bzmzbbc	bccbc	bccbmw	bmw
	Lympne	bcc⊕	c⊕ybc	bw	bwmbcf
	Manston	cmc	cbcy	bwm	bffbm
2	Shoeburyness	bcmcy⊕	cyc	bcw	bcwfem
	Felixstowe	c	cb	bbm	bmwff
	Gorleston	c	cbc	bcw	bcofz
	Mildenhall	cm	cbmy	bbcbm	bffeFe
	Cranwell	c	cbcycz	cbcbmbm	bmfoF
3	Birmingham	bccbc	cb	bbc	bcbf
	Upper Heyford	bmbbcz	bcz	bcz	bcmmw
4	Ross-on-Wye	bczbbc	bcy	bbcb	bmwf
5	Hartland Point	bc	bcb	b	b
	Bristol	bzbcy	bcy	bcbm	bbcmw
	Portland Bill	b	b	b	o
	Plymouth	bz	bzbcm	bcbmw	bwm
	The Lizard	b	b	b	bbc
	Scilly (St. Mary's)	bcb	b	bw	bwz
	Guernsey	bcb	b	bw	bwbc
6	Pembroke	bcz	bc	b	bm
7	Holyhead	ffobc	bcb	bw	bw
	Chester (Sealand)	cbcmz	bcbbc	bcbfe	bfeFem
8	Manchester	bcfc	cbc	bcbmwf	bfoFe
10	Spurn Head	cmz	cz	cbw	bbcw
	Catterick	cmbcy	bcycy	bcbbw	bw
	Tynemouth	cbc	bc	bc	bc
11	St. Abbs Head	c	bcc	bc	bc
	Leuchars	ccyc	cbcy	bcybcw	bw
12	Renfrew (Abbotsl.)	circ	cbc	bcbc	bcbbcwfg
	Eskdalemuir	cwbc	bc	bcbw	bfw
	Point of Ayre	cbcb	bbc	bcbw	bw
13A	Tiree	c	c	c	c
13B	Stornoway	cr	c	c	c
15	Dalwhinnie	cir	cbc	•	cir
	Aberdeen	bcc	cbc	bcbw	bw
	Wick	cpr	c	cbc	bcc
16	Lerwick	c	cprir	c	c
17	Blacksod Point	bc	bc	bc	bc
18	Malin Head	cbc	bc	bc	cbcc
	Aldergrove	cbc	bcyb	b	bbwbc
19	Birr Castle	bc	bc	bc	bcoff
20	Valentia Obsy.†	cbc	bcbbcc	cbcw	bcw
	Rocies Point	bccbc	bc	bcbw	bw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.*

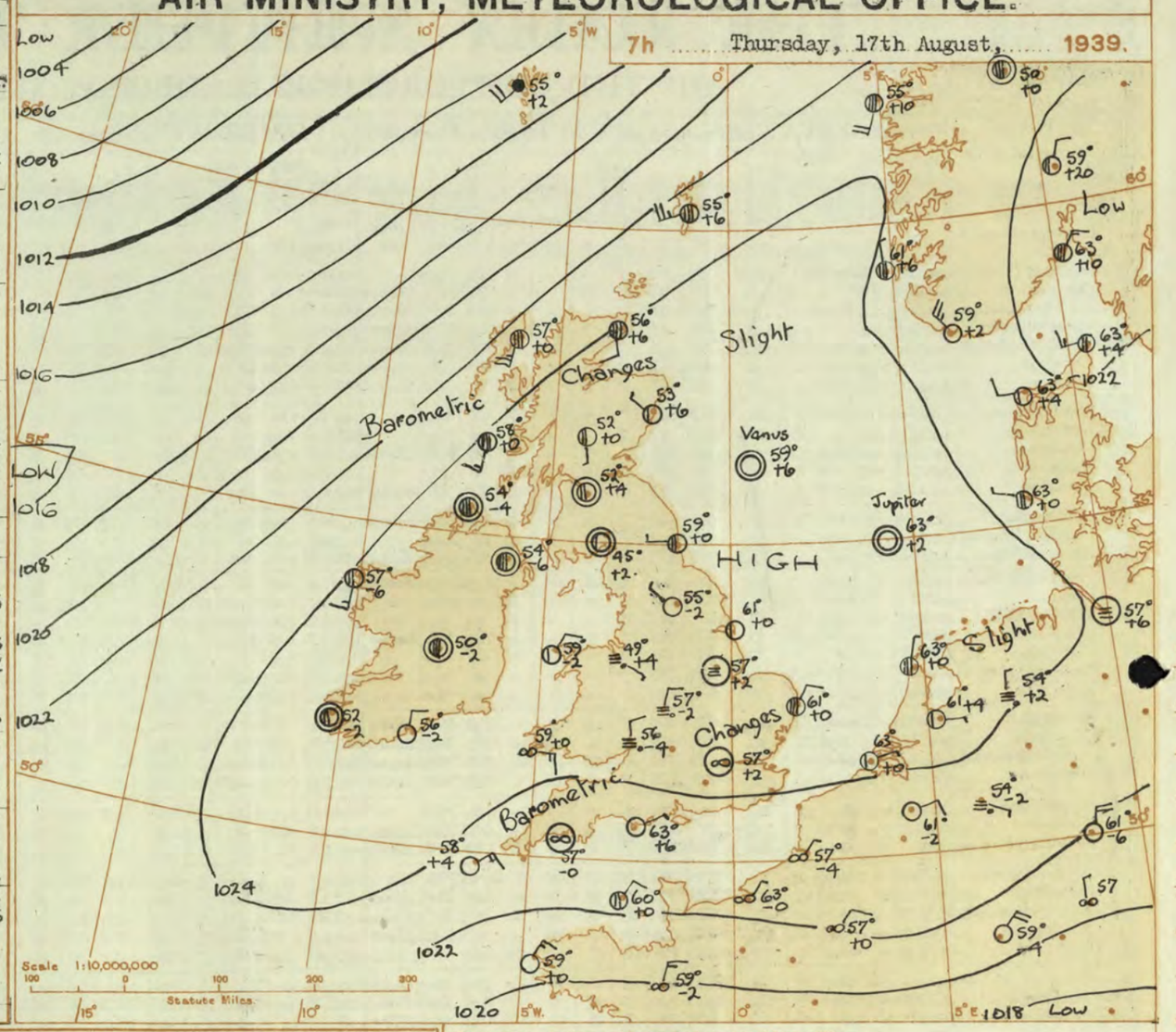
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 16th August 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 15th to 9h. 16th	Temperature. (°F) Max. 9h.—17h. 16th	Rainfall. (mm.) Night. 17h. 15th to 9h. 16th	Rainfall. (mm.) Day. 9h.—17h. 16th	Sunshine. (Hrs.) Sunrise to 17h. 16th	Sunshine. (Hrs.) Sunrise to Sunset. 15th
1	Tunbridge W.	b	bbcc	45	77	-	-	8.9	13.3
	Bournemouth	b	b	51	73	-	-	10.5	11.4
	Ventnor ...	bz	bz	57	71	-	-	10.6	12.8
	Southsea ...	b	b	54	72	-	-	10.3	12.6
	Bognor Regis	b	b	53	68	-	-	11.0	13.1
	Littlehampton	b	bbc	52	69	-	-	11.5	13.1
	Worthing ...	b	b	53	69	-	-	11.4	13.1
	Brighton ...	b	bbc	52	70	-	-	11.0	13.0
	Eastbourne† ...	b	bbcy	53	71	-	-	11.7	13.5
	Hastings† ...	b	bc	53	70	-	-	11.6	13.8
	Folkestone ...	bc	bc	51	68	-	-	9.8	13.2
	Dover ...	bc	bc	49	69	-	-	9.2	12.5
	Deal	bcbbc	bccbc	47	70	-	-	10.0	12.3
	Ramsgate ...	bc	bc	55	68	-	-	9.0	13.1
	Margate ...	bc	bccbc	55	76	-	-	7.6	13.0
2	Southend ...	bbcc	cmbz	56	73	-	-	5.5	13.6
	Clacton-on-Sea	bcc	cbc	55	69	-	-	2.6	12.3
	Dovercourt ...	bcm₀	bcz	55	69	-	-	4.7	13.3
	Lowestoft ...	bco	cbcbz	54	68	-	-	4.4	13.5
	Skegness ...	bm₀	bccb	55	68	-	-	4.4	11.9
	Mablethorpe...	bcbbc	bcb	54	69	-	-	4.3	10.7
	Cleethorpes ...	bc	bc	57	70	-	-	5.9	9.7
3	Leamington S.	bc	bc	51	75	-	-	7.7	10.7
4	Cheltenham†	wzb	bbc	51	77	-	-	10.5	12.2
5	Bath	b	b	50	76	-	-	10.0	9.3
	Weymouth ...	b	bz	52	71	-	-	11.1	12.9
	Jersey ...	b	b	59	74	-	-	11.7	13.9
	Torquay ...	wbz₀	b	54	69	-	-	11.1	12.8
	Falmouth ...	b	b	55	74	-	-	10.9	12.8
	Penzance ...	b	b	55	75	-	-	10.8	12.4
	St. Ives ...	b	b	54	67	-	-	10.8	12.7
	Bude... ...	wb	b	47	66	-	-	10.8	11.7
	Ilfracombe ...	bbcz	bbcz	57	68	-	-	11.1	13.0
6	Aberystwyth	zbc	bbc	50	67	-	-	11.2	13.7
7	Llandudno ...	bc	bcb	55	67	-	-	10.0	9.7
	Colwyn Bay...	bcbbc	bcb	52	69	-	-	9.2	10.2
	Rhyl	bcb	bbc	51	66	-	-	9.1	8.9
8	Wallasey ...	bc	bccb	56	66	-	-	5.2	8.6
	Southport ...	bcco	cbcbw	54	69	-	-	5.8	9.5
	Blackpool ...	c	bcb	55	67	-	-	7.1	10.1
	Morecambe ...	cbc	bcb	56	69	-	-	7.1	9.6
9	Ilkley... ...	ocbc	b	55	75	-	-	5.5	11.3
	Harrogate ...	cb	b	57	74	-	-	6.1	10.6
10	Berwick-on-T.	cbc	bccbc	57	70	1	-	7.2	4.1
11	Dunbar ...	cc̄m₀	bcm₀	55	66	Trace	-	4.4	0.8
12	Troon... ...	bcc	bcbbc	56	63	-	-	5.9	1.9
	Douglas ...	b	b	57	68	-	-	7.1	7.1

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

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. 17th August, 1939.
1 S.E. England	Wind easterly, light to moderate; fine; warm inland.
2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind variable, light; fine; local morning fog; warm or very warm inland.
5 S.W. England 6 South Wales ...	Wind northeast to east, light to moderate; 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.	Wind variable to southerly, light; fine; local morning fog; very warm.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind southwest to south, moderate to fresh at times on the coast; fair; warm.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind variable becoming southerly, freshening on the west coast later; fine; local morning fog; warm or very warm.

GENERAL INFERENCE.

An anticyclone covers the British Isles and small disturbances are moving northeast between Scotland and Iceland. A trough of low pressure will probably develop to westward of Ireland. Weather will be fine and warm but a little fog will occur locally in the early morning.

FURTHER OUTLOOK.

Fine and warm.

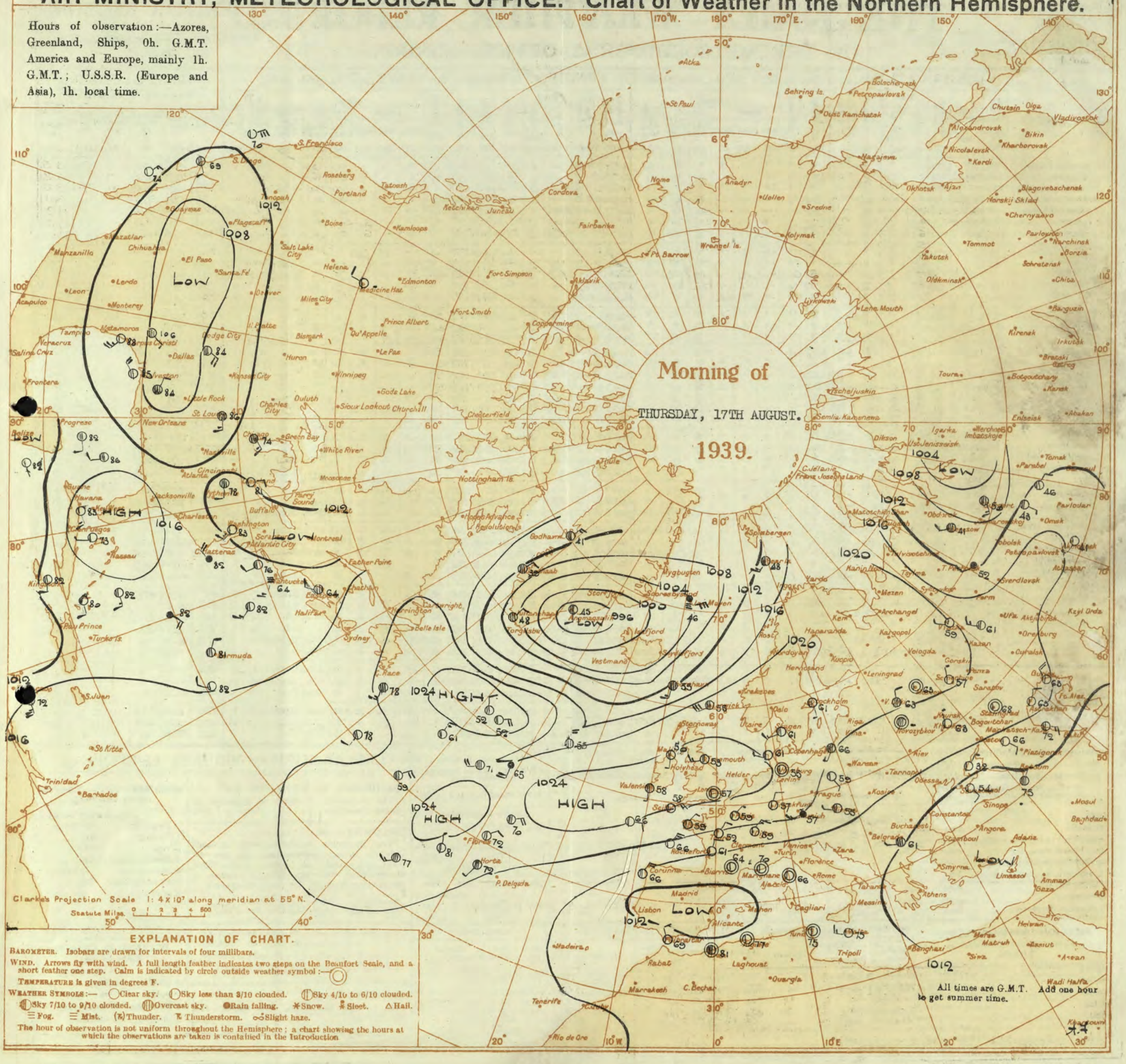
Forecasts issued at 0930 G.M.T.

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

Thursday, 17th August, 1939.
No. 28392.

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

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	1024·7	-2	-	0	Z_0	57	97	6	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1024·4	-8	-	0	Z_0	59	85	6	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1024·3	-4	NNW	1	Z_0	61	92	7	-	-	-	0	0	-
	Lympne	346	1024·8	-6	NE	2	b	52	92	6	-	-	-	0	0	-
	Manston	154	1024·7	-6	E'N	1	Z_0	55	92	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1024·8	-4	N'E	1	bc	60	85	6	-	4	-	0	2-3	-
	Mildenhall	19	1024·7	-2	E	2	Z_0	55	92	6	-	-	-	0	0	-
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1023·9	-6	NE	1	b	61	92	8	-	-	-	0	0	-
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1023·8	-10	E	1	b	62	85	8	-	-	-	0	0	-
	Plymouth	82	1024·3	-2	-	0	Z_0	57	92	6	-	-	-	0	0	-
	The Lizard	240	1024·3	-4	NE	3	b	60	85	7	-	-	-	0	0	-
	Scilly (St.Mary's)	163	1024·2	-8	NE	3	b	58	97	6	-	-	-	0	0	-
	Guernsey	175	1023·3	-2	W'N	2	b	58	92	7	-	-	-	0	0	-
6	Pembroke	142	1024·3	0	NE'E	3	b	58	85	8	-	-	-	0	0	-
7	Holyhead	26	1025·5	-6	NNE	2	b	57	92	8	-	-	-	0	0	-
	Chester(Sealand)	16	1026·2	-2	-	0	bf-	50	97	3	-	-	-	0	0	-
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1025·2	0	-	0	b	59	92	6	-	-	-	0	0	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1025·3	-6	W	3	bc	53	85	7	5	-	-	2-3	2-3	1500
11	St. Abbs Head	280	1025·3	-4	SW	2	bc	55	75	8	4	-	-	1	2-3	2500
	Leuchars	36	1025·1	+2	SW	2	b	50	92	8	-	-	-	0	0	-
12	Renfrew (Abbots I.)	19	1026·1	-4	-	0	bc	51	97	8	4	-	-	2-3	2-3	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1026·3	0	NW	2	b	51	97	8	-	-	-	0	0	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1023·0	0	SSW	4	c	56	85	7	8	7	-	9	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1024·0	+6	SSW	2	bc	51	85	8	5	6	-	2-3	2-3	2500
16	Lerwick	156	1020·3	+6	SW	6	c	55	85	8	8	7	-	7-8	10	1500
17	Blacksod Point	18	1025·6	-6	-	0	c	54	92	7	5	-	-	10	10	800
18	Malin Head	84	1026·0	+2	S	1	bc	50	92	7	5	-	-	4-6	4-6	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1025·9	-4	S	1	bc	58	97	8	5	-	-	2-3	2-3	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 17th August

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)	1024·3	+2	-	0	bf-	59	97	3	-	-	-	0	0	-	0	*
Croydon	1024·6	-2	-	0	Z_0	57	97	5	-	-	1	0	Tr	-	0	*
S. Farnborough	1024·6	+2	-	0	F+	53	97	1	-	-	-	10	10	<150	1	*
Boscombe Down	1024·4	+4	-	0	Z_0	58	92	6	-	-	-	0	0	-	1	*
Calshot (Sthmtn.)	1023·9	+2	NNW	1	Z_0	59	92	6	-	-	-	0	0	-	0	0
Lympne	1024·0	-2	NNE	2	bc/f	58	97	6	-	-	6	0	4-6	-	0	§1
Manston	1024·1	0	NE'E	2	Z_0	60	92	6	-	-	6	0	2-3	-	0	*
Shoeburyness	1024·5	0	-	0	~	60	97	4	-	3	2	0	4-6	-	0	*
Felixstowe	1024·7	+2	N	2	F+	57	97	1	-	-	-	10	10	<150	1	1
Gorleston	1024·7	0	NE	2	c	61	92	6	5	-	-	9	9	2500	0	1
Mildenhall	1024·7	+2	-	0	F+	53	97	1	-	-	-	10	10	<150	1	*
Cranwell	1025·4	+2	-	0	F	57	97	1	-	-	-	10	10	<150	1	*
Birmingham	1025·0	-2	NNE	2	~	57	92	4	-	-	-	0	0	-	0	*
Upper Heyford	1024·9	+4	N	2	~	56	92	4	-	-	1	0	2-3	-	0	*
Ross-on-Wye	1025·1	-4	N	2	~/f	56	92	4	-	-	-	0	0	-	0	*
Hartland Point	1023·5	+4	E	2	b	61	85	7	-	-	-	0	0	-	0	1
Bristol	1024·8	+2	N	1	Z_0	57	92	6	-	-	8	0	4-6	-	0	*
Portland Bill	1023·3	+6	ENE	1	b	63	85	8	-	-	-	0	0	-	1	2
Plymouth	1023·5	0	-	0	Z_0	57	92	5	-	-	1	0	Tr	-	0	0
The Lizard	1023·1	-2	ENE	3	bc	61	92	7	7	-	-	2-3	2-3	4000	0	1
Scilly (St.Mary's)	1023·6	+4	NE'E	3	b	58	97	7	-	-	-	0	0	-	0	2
Guernsey	1022·3	0	NE	2	bc	60	92	7	-	1	-	0	2-3	-	0	1
Pembroke	1024·2	0	E	3	Z_0	59	92	6	-	4	-	0	Tr	-	0	1
Holyhead	1024·7	-2	NE'N	2	b	59	85	9	-	-	1	0	Tr	-	0	0
Chester(Sealand)	1025·5	0	SE	1	~/f	49	97	4	-	-	-	0	0	-	0	*
Manchester	1025·3	-2	-	0	F	51	97	0	-	-	-	10	10	<150	0	*
Spurn Head	1025·2	0	-	0	b	61	85	6	-	-	1	0	Tr	-	1	0
Catterick	1025·3	-2	NW	1	b	55	85	7	-	-	-	0	0	-	0	*
Tynemouth	1025·3	0	W	1	bc	59	85	5	5	-	-	2-3	2-3	1500	0	0
St. Abbs Head	1024·9	+2	W	3	bc	56	75	9	7	4	-	2-3	2-3	2500	0	1
Leuchars	1024·8	+2	WSW	2	b	52	85	9	5	4	9	Tr	1	5700	0	*
Renfrew (Abbots I.)	1025·7	+4	-	0	bcjf	52	97	8	5	3	9	Tr	4-6	1500	0	*
Eskdalemuir	1025·9	+2	-	0	bf	45	92	3	-	3	-	0	1	-	1	*
Point of Ayre	1025·5	-2	E'N	2	b	59	92	8	5	-	2	Tr	1	1500	1	1
Tiree	1024·1	0	S'W	3	c	58	92	8	5	-	-	9+	9+	2500	0	2
Stornoway	1022·8	0	SSW	5	c	57	85	8	5	7	-	4-6	9+	2500	1	2
Dalwhinnie	1025·7	0	S	1	bc	52	85	8	-	-	5	0	4-6	-	1	*
Aberdeen	1024·8	+6	NW'N	1	b	53	92	8	-	3	3	0	1	-	0	1
Wick	1024·0	+6	S	2	c	56	85	8	5	6	2	2-3	7-8	2500	1	1
Lerwick	1022·9	+6	SW'W	5	c	55	85	8	8	7	-	7-8	9+	1500	1	*
Blacksod Point	1024·2	-6	S	3	bc	57	92	8	3	-	-	4-6	4-6	800	0	2
Malin Head	1024·5	-4	-	0	c	54	92	8	4	9	-	4-6	9	4000	0	3
Aldergrove	1025·1	-6	-	0	c	54	92	7	-	7	-	0	7-8	-	1	*
Birr Castle	1025·1	-2	-	0	of	50	97	3	5	-	-	10	10	2500	0	*
Valentia Obsy. †	1024·7	-2	-	0	bc	52	97	8	5	3	-	Tr	2-3	5700	0	1
Roches Point	1024·4	-2	N'E	2	b	56	97	8	-	-	-	0	0	-	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 16th Hrs. (36)
London (Kew)	76	55	48	-	Tr	8·5
Croydon	76	53	48	-	-	6·8
S. Farnborough	77	49	45	-	Tr	9·8
Boscombe Down	76	55	51	-	-	8·1
Calshot (Sthmtn.)	73	57	54	-	-	11·9
Lympne	69	51	48	-	-	11·5
Manston	70	51	42	-	-	10·2
Shoeburyness	70	52	43	-	-	6·3
Felixstowe	69	54	51	-	-	3·9
Gorleston	71	54	52	-	-	6·3
Mildenhall	74	48	44	-	Tr	4·4
Cranwell	75	51	48	-	-	3·6
Birmingham	73	54	45	-	-	8·0
Upper Heyford	75	54	51	-	-	*
Ross-on-Wye	75	52	47	-	-	12·7
Hartland Point	66	59	57	-	-	13·3
Bristol	75	53	45	-	-	12·6
Portland Bill	68	59	*	-	-	*
Plymouth	69	55	50	-	-	11·8
The Lizard	71	58	*	-	-	12·5
Scilly (St.Mary's)	68	57	*	-	0·2	13·0
Guernsey	68	57	51	-	-	12·4
Pembroke	70	56	*	-	-	11·7
Holyhead	63	55	43	-	0·1	8·9
Chester(Sealand)	69	45	44	-	-	10·9
Manchester	71	44	43	-	Tr	9·3
Spurn Head	71	57	*	-	Tr	4·6
Catterick	75	49	44	-	-	7·2
Tynemouth	72	(53)	50	-	-	7·8
St. Abbs Head	64	51	*	-	-	*
Leuchars	71	47	38	-	-	4·2
Renfrew (Abbots I.)	67	46	39	Tr	-	4·4
Eskdalemuir	70	39	35	-	-	8·8
Point of Ayre	67	48	*	-	-	10·3
Tiree	61	49	45	-	-	0·1
Stornoway	62	55	*	0·4	-	0·8
Dalwhinnie	64	42	35	-	Tr	5·2
Aberdeen	65	45	38	-	-	3·0
Wick	63	49	*	Tr	-	*
Lerwick	59	54	*	0·2	-	2·0
Blacksod Point	64	50	*	-	-	*
Malin Head	62	48	*	-	-	10·5
Aldergrove	70	48	41	-	-	9·3
Birr Castle	70	46	38	-	-	10·3
Valentia Obsy. †	65	50	44	-	Tr	8·0
Roches Point	66	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. (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	bbcy	bcz₀czbm,few		76	55	48	-	Tr	8·5	*	*	5
Croydon	217	bbc,cy	cycz₀	bm,w	76	53	48	-	-	6·8	*	*	6
Greenwich (Royal Observatory)	149	bz₀y	cz₀y	bcbwfz₀	76	54	44	-	Tr	5·7	60	50	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park)	27	*	*	*	75	59	54	-	-	5·5	71	64	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	76	56	48	-	-	5·5	65	57	*
Camden Square	110	o	c	*	75	56	51	-	-	*	*	61	*
Kensington	80	b	bc	*	77	56	49	-	-	6·2	At 18h 67	61	*
Hampstead Observatory	450	bm	bcm	bc	74	56	(47)	-	-	*	*	58	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.	Kew Observatory. Max.	Time.	Min.	Time.
0·6	6–7h 17th	<0·3	12–14h 16th.	0·4	7h. 17th	<0·1	11h. 16th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 16th August. Barom. mb.	Wind Direc.	Wind Force	Weather.	Temp. °F.	7h. G.M.T. 17th August. 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	1021·4	NNE	3	c	72	1021·7	NE	2	Z_0	57	77	55	-	-
Brussels	1023·8	NE	3	c	66	1023·3	ENE	2	b	64	75	54	-	-
Berlin	1020·6	N	5	c	70	1021·4	N	3	Z_0	63	75	61	Tr	Tr
Zürich	1020·4	ENE	3	b	68	1018·3	NE	3	bc	59	77	57	-	-
Rome	1012·1	WNW	3	c	75	1012·7	ENE	3	bc	72	-	-	-	-

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 Precipitous.
4 Rough. 9 Confused.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 18th August, 1939.

No. 28393.

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

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

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

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)	1021·9	-2	E'N	3	b	70	65	6	-	-	-	0	0	-	1	*
	Croydon	1021·9	-6	E'N	3	b	67	65	7	-	-	-	0	0	-	0	*
	S. Farnborough	1021·4	+2	E'N	3	z_o	71	55	6	-	-	-	0	0	-	0	*
	Boscombe Down	1021·0	-4	NE'E	2	z_o	70	65	6	4	-	-	2·3	2·3	5700	0	*
	Calshot (Soton.)	1021·0	-8	E'S	3	b	67	75	7	-	-	-	0	0	-	0	§ 2
	Lympne	1021·8	-4	NE'N	3	b	64	65	8	-	-	-	0	0	-	0	*
	Manston	1022·0	-8	NE'N	4	b	63	75	7	-	-	1	0	1	-	0	*
2	Shoeburyness	1022·4	-6	NE	3	bc	63	97	6	5	-	-	4·6	4·6	1500	0	*
	Felixstowe	1023·1	-8	ENE	4	b	64	85	7	-	-	-	Tr	Tr	2500	0	2
	Gorleston	1023·0	-6	NE'N	3	bc	65	85	7	1	-	-	4·6	4·6	2500	0	1
	Mildenhall	1022·5	+2	ENE	3	b	60	65	7	-	-	-	0	0	-	0	*
	Cranwell	1023·2	-2	E	1	b	68	65	8	-	-	-	0	0	-	0	*
3	Birmingham	1022·3	-6	ENE	3	b	71	55	8	1	-	-	Tr	Tr	4000	0	*
	Upper Heyford	1022·4	-2	E	1	b	71	55	8	1	-	-	Tr	Tr	4000	0	*
4	Ross-on-Wye	1021·5	-6	E	2	b	72	65	7	1	-	-	1	1	4000	0	*
5	Hartland Point	1020·3	-8	SW	2	c	67	85	7	5	6	-	4·6	7·8	1500	0	1
	Bristol	1021·2	-18	-	0	z_o	72	65	7	1	-	8	Tr	2·3	4000	0	*
	Portland Bill	1021·3	-14	E	2	bc	64	85	8	5	-	-	2·3	2·3	4000	1	2
	Plymouth	1020·8	-2	E	2	b	70	46	7	1	-	-	Tr	Tr	4000	0	1
	The Lizard	1020·5	-8	NE	2	bc	65	75	7	7	-	-	2·3	2·3	4000	0	
	Scilly (St. Mary's)	1021·0	-6	NNE	2	b	64	97	8	-	-	-	0	0	-	0	1
	Guernsey	1019·1	-8	NE	5	b	64	75	7	-	-	-	0	0	-	0	3
6	Pembroke	1020·8	-14	NE'N	3	b	68	75	7	-	-	-	0	0	-	0	1
7	Holyhead	1021·9	-6	NNE	2	b	65	75	8	-	-	-	0	0	-	0	0
	Chester (Sealand)	1022·0	-6	WNW	3	z_o	60	75	6	-	-	-	0	0	-	0	*
8	Manchester	1022·0	-6	SSE	1	z_o	73	65	5	5	-	-	8	8	4000	0	*
10	Spurn Head	1023·8	-8	E'S	2	b	61	85	5	-	-	-	0	0	-	0	2
	Catterick	1022·1	-4	S'E	1	z_o	72	65	6	-	-	-	0	0	-	0	
	Tynemouth	1023·1	-6	SE	2	bc	62	85	6	5	-	-	4·6	4·6	2500	0	
11	St. Abbs Head	1022·7	-8	SE	3	b	61	85	7	4	-	-	1	1	4000	0	2
	Leuchars	1022·6	-6	SE	3	bc	62	75	8	5	3	-	1	4·6	800	0	*
12	Renfrew (Abbotsl.)	1022·5	-10	NNW	2	bc	67	65	8	-	3	-	0	4·6	-	0	*
	Eskdalemuir	1021·5	-6	SW	1	b	71	35	9	-	4	9	0	Tr	-	0	
	Point of Ayre	1022·6	-8	-	0	b	64	75	8	-	-	2	-	Tr	-	0	0
13A	Tiree	1022·1	-4	SSW	2	c	59	85	8	5	-	-	9+	9+	2500	0	2
13B	Stornoway	1021·3	-10	S	5	c	60	75	8	5	4	4	4·6	7·8	2500	1	3
15	Dalwhinnie	*	-10	W	3	c	62	65	8	-	5	-	0	9+	4150	0	*
	Aberdeen	1022·4	-6	S'E	2	c	59	85	6	-	3	-	8	9	-	0	1
	Wick	1021·7	-8	SSE	2	c	57	85	8	5	7	9	4·6	9+	2500	1	1
16	Lerwick	1022·0	-2	S	4	c	55	85	8	5	3	-	4·6	9+	1500	0	*
17	Blacksod Point	1022·6	-8	W	2	bc	61	75	9	1	-	3	1	2·3	4000	0	2
18	Malin Head	1022·4	-6	NNW	1	c	59	92	7	5	-	-	7·8	7·8	2500	0	3
	Aldergrove	1021·7	-10	-	0	bc	70	75	7	2	4	-	2·3	2·3	2500	1	*
19	Birr Castle	1021·3	-12	WSW	1	bc	75	55	8	1	4	6	2·3	4·6	4000	0	*
20	Valentia Obsy.†	1022·6	-6	W	2	bc	62	75	8	5	-	6	1	4·6	2500	0	1
	Roches Point	1021·7	-6	SSW	2	bc	63	85	9	1	-	6	1	2·3	4000	0	1

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 17th (37)	Weather 13h.—18h. 17th (38)	Weather 18h. 17th to 1h. 18th (39)	Weather 1h.—7h. 18th (40)
1	London (Kew)	bfz$_o$wbc	bcbybz$_o$	bz$_o$bW	bbccmW
	Croydon	bm$_o$bcz$_o$	bczby	bbccm$_o$W	cm$_o$Wcm
	S. Farnborough	ofbcz$_o$y	bcbz$_o$y	bz$_o$b	bWcm$_o$
	Boscombe Down	bm$_o$	bbcyz$_o$	bm$_o$	bm$_o$bFF
	Calshot (Soton.)	bbz$_o$	bz$_o$b	bbm$_o$	bm$_o$
	Lympne	bcm$_o$b	b	bm$_o$W	bm$_o$mW
	Manston	bm$_o$bcz$_o$	bcz$_o$b	bm$_o$W	cmWbcm
2	Shoeburyness	bcmby	bbm$_o$	bcm$_o$W	bcwm$_o$c
	Felixstowe	Fbm$_o$	bm$_o$b	bbm$_o$	bm$_o$Wcm
	Gorleston	cz$_o$bc	bcbbc	cbc	bcez$_o$
	Mildenhall	Febc	bcybb	bbffe	offemm$_o$
	Cranwell	oFbbcy	bcbyb	bbmW	bmWff,em
3	Birmingham	mbbc	bcb	b	bf
	Upper Heyford	bcmbmbm	bcyby	bbcbm$_o$	bjfoFf
4	Ross-on-Wye	bz$_o$	byz$_o$bcyb	bbcbm$_o$	bmWf
5	Hartland Point	cbc	bcc	cbcb	b
	Bristol	bcbz$_o$y	bcz$_o$yb	bcz$_o$bm$_o$	bm$_o$gfW
	Portland Bill	bbc	bc	bbc	bc
	Plymouth	bm$_o$b	by	bybm$_o$b	b
	The Lizard	bcb	bbc	bcb	bbc
	Scilly (St. Mary's)	b	b	bmW	bW
	Guernsey	bzbcz	bczb	bW	bWbcz
6	Pembroke	bbcz$_o$	bcz$_o$b	bcm$_o$	bcz$_o$
7	Holyhead	b	b	b,cbcW	bcm$_o$c
	Chester (Sealand)	bmm$_o$b	bybz$_o$	bm$_o$mW	bWmo
8	Manchester	ofcfb	bz$_o$yczo	cz$_o$bm$_o$W	bmfW
10	Spurn Head	bcb	bz$_o$	bW	bWjfc
	Catterick	bWz$_o$by	bybz$_o$	bz$_o$bmW	bmoFc
	Tynemouth	bc	bc	bcebc	bc
11	St. Abbs Head	bc	b	b	bcc
	Leuchars	bWbc	bc	bW	bbcm$_o$W
12	Renfrew (Abbotsl.)	bcWbc	bc	bcbffg$_o$WbfmWbcf	
	Eskdalemuir	bfWbbc	bcb	b	bWfbm$_o$
	Point of Ayre	b	b	bW	bW
13A	Tiree	cbc	bcc	c	cbccW
13B	Stornoway	c	c	c	c
15	Dalwhinnie	bc	c	•	c
	Aberdeen	bWbc	bcz$_o$	cbcbW	bWbc
	Wick	c	c	cbc	bc
16	Lerwick	c	c	com$_o$	iFFc
17	Blacksod Point	bc	bc	bc	c
18	Malin Head	cbc	bcc	cbcc	cbcc
	Aldergrove	bc	bc	bcb,m,f	bWfcfc
19	Birr Castle	offbc	bcy	bcb	boff
20	Valentia Obsy.†	bcWc	cbc	bcW	bcWc
	Roches Point	bbc	bc	bcbW	bWb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.*

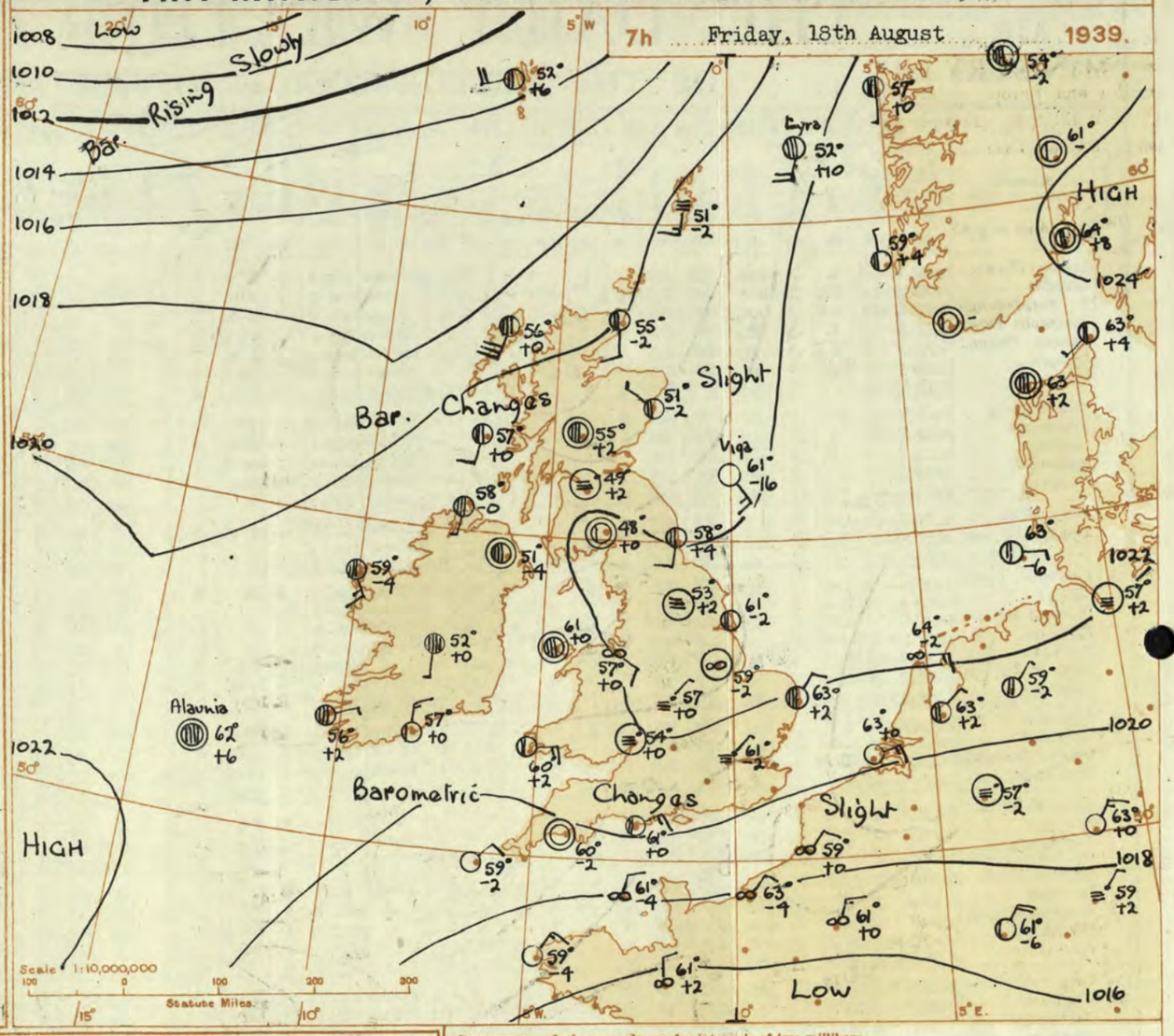
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 17th August, 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 16th to 9h. 17th	Temperature. (°F) Max. 9h.—17h. 17th	Rainfall. (mm.) Night. 17h. 16th to 9h. 17th	Rainfall. (mm.) Day. 9h.—17h. 17th	Sunshine. (Hrs.) Sunrise to 17h. 17th	Sunshine. (Hrs.) Sunrise to Sunset. 16th
1	Tunbridge W.	b	b	49	74	–	–	11·3	8·9
	Bournemouth	b	b	55	75	–	–	9·9	10·6
	Ventnor ...	bz	bz	*	71	–	–	10·8	11·7
	Southsea ...	b	b	55	74	–	–	11·1	11·0
	Bognor Regis	b	b	56	71	–	–	11·0	12·0
	Littlehampton	b	b	54	72	–	–	11·4	12·3
	Worthing ...	b	b	56	74	–	–	11·1	12·2
	Brighton ...	b	b	55	77	–	–	10·9	12·0
	Eastbourne† ...	b	b	56	70	–	–	11·2	12·2
	Hastings† ...	b	b	55	74	–	–	11·5	12·1
	Folkestone ...	bcb	b	55	71	–	–	11·1	10·9
	Dover ...	bc	bcb	55	71	–	–	11·2	10·6
	Deal	b	b	50	71	–	–	11·0	11·6
	Ramsgate ...	bc	b	61	68	–	–	11·1	10·4
	Margate ...	bc	bc	59	66	–	–	11·2	8·6
2	Southend ...	b	b	57	72	–	–	10·0	6·1
	Clacton-on-Sea	bcm	bcz	57	67	–	–	9·6	3·5
	Dovercourt ...	bcf	bcb	55	67	–	–	9·5	5·5
	Lowestoft ...	bczb	bbc	51	68	–	–	9·2	5·9
	Skegness ...	b	b	54	67	–	–	11·5	5·4
	Mablethorpe...	bzb	b	49	67	–	–	10·4	6·3
	Cleethorpes ...	bzb	b	55	68	–	–	11·0	6·6
3	Leamington S.	bc	bc	53	75	–	–	9·7	8·7
4	Cheltenham†	wzbbc	bccbc	54	76	–	–	7·8	10·9
5	Bath	b	b	54	76	–	–	9·4	12·2
	Weymouth ...	mb	b	55	71	–	–	10·8	12·5
	Jersey ...	b	b	61	74	–	–	11·4	13·7
	Torquay ...	wbzo	by	55	70	–	–	11·0	12·5
	Falmouth ...	b	b	58	71	–	–	10·6	13·0
	Penzance ...	b	b	56	72	–	–	10·3	12·6
	St. Ives ...	b	b	55	68	–	–	10·3	12·9
	Bude... ...	bc	bcc	51	72	–	–	9·2	12·8
	Ilfracombe ...	bbcz	cbcbz	58	73	–	–	6·8	12·8
6	Aberystwyth	zbc	bc	53	70	–	–	11·4	13·5
7	Llandudno ...	b	bzo	50	66	–	–	11·3	12·2
	Colwyn Bay...	bbcb	cbcb	49	66	–	–	11·5	11·4
	Rhyl	zob	bzo	48	70	–	–	11·4	11·2
8	Wallasey ...	bc	bcb	53	72	–	–	8·7	7·6
	Southport ...	wbzb	bbz	48	72	Trace	–	10·8	7·9
	Blackpool ...	bmo	bbc	49	72	–	–	11·0	9·2
	Morecambe ...	bcb	bz	53	69	–	–	10·8	8·9
9	Ilkley... ...	b	bco	50	76	–	–	10·4	6·6
	Harrogate ...	b	b	52	75	–	–	11·3	7·1
10	Berwick-on-T.	b	b	49	65	–	–	11·7	8·5
11	Dunbar ...	bcmo	bc	49	66	–	–	11·9	5·8
12	Troon... ...	bcc	bcbbc	50	67	–	–	8·2	7·1
	Douglas ...	b	b	*	67	–	–	11·0	8·2

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 18th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ...	Wind northeast, light to moderate; fair ; warm.
3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind easterly, light to moderate; fine; local morning fog; warm or very warm by day.
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.	Wind variable, light; fine; local morning fog; very warm.
13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland	Wind southerly, light to moderate; fair; rather warm.
18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind variable, light; fair or fine; warm.

GENERAL INFERENCE.

A belt of high pressure extends from southwest to northeast across the British Isles but is slowly decreasing in intensity. Weather will continue fine or fair and warm. Morning fog will occur in places.

FURTHER OUTLOOK.

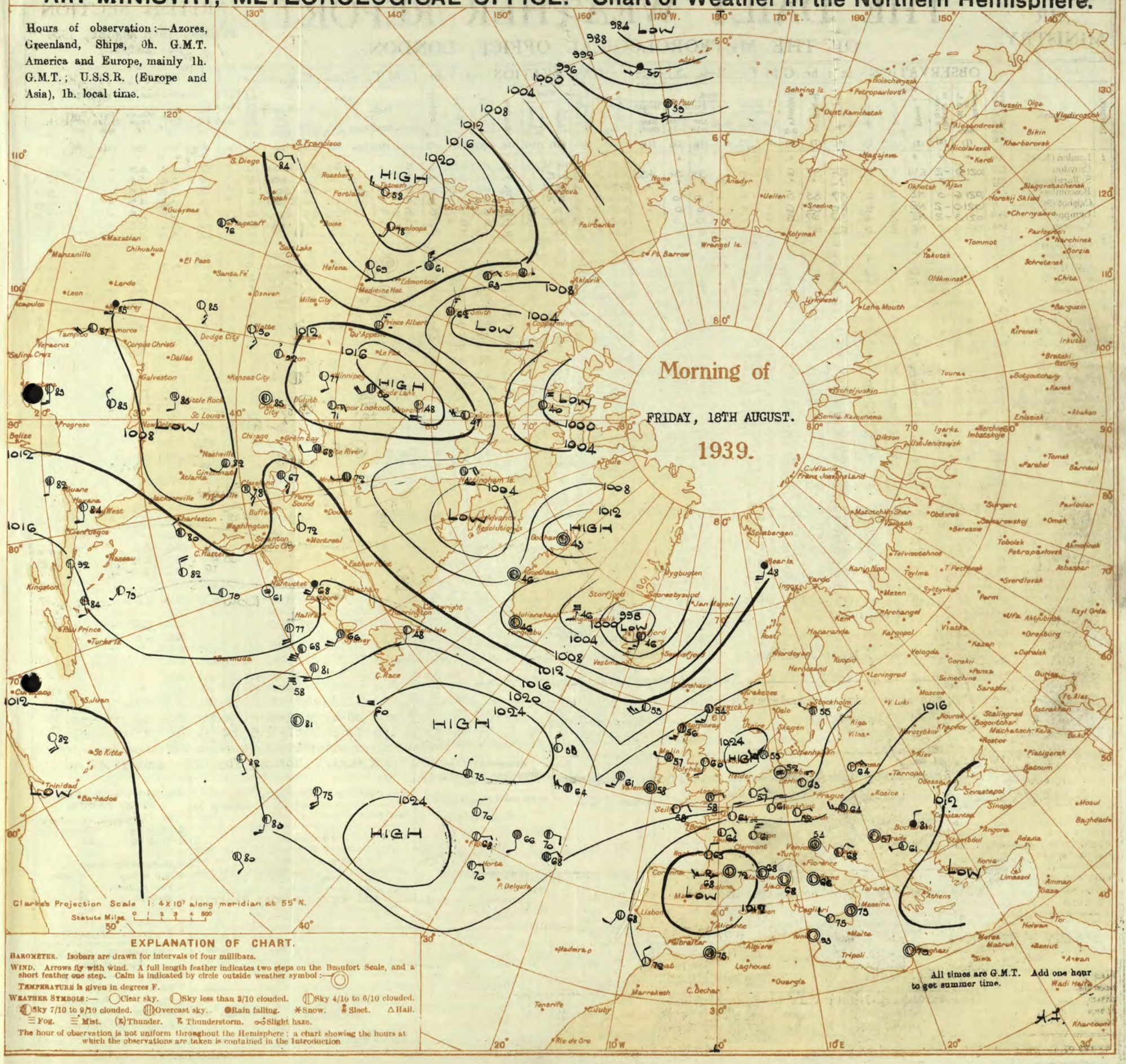
Fair and warm in most districts.

Forecasts issued at 0930 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 18th August, 1939
No. 28393.

District	Stations	Height above M.S.L. in feet	OBSERVATIONS at 1 hr. G.M.T. 18th August: 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)	OBSERVATIONS at 7 hr. G.M.T. 18th August: 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)	PAST 24 HOURS: Temp. 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)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.2	-2	NE'N	3	zo	61	85	6	5	-	-	9+	9+	4000	0	*	74	59	49	-	-	11.1
	Croydon	217	1021.9	-2	E'N	1	zo	58	97	6	5	-	-	9+	9+	450	1021.2	-2	NE	1	m	61	92	4	5	-	-	10	10	450	0	*	74	58	55	-	-	12.4
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.7	-4	NE'N	2	zo	60	92	6	5	-	-	9+	9+	1500	0	*	75	53	45	-	-	9.7
	Boscombe Down	417	1021.6	0	NE	2	zo	57	85	5	-	-	-	0	0	-	1020.9	-2	E'N	4	f	56	97	2	-	-	-	10	10	<150	1	*	75	53	49	-	-	8.9
	Calshot (Sthmtn.)	8	1021.0	-2	NE	3	zo	60	92	6	-	-	-	0	0	-	1020.3	-2	N	2	zo	60	92	5	5	-	-	4-6	4-6	800	0	§1	72	57	55	-	-	12.6
	Lympne	346	1021.3	-2	NE	3	zo	57	97	5	-	-	-	0	0	-	1020.3	-2	NNE	3	zo	61	97	5	5	-	-	Tr	Tr	450	0	1	69	56	55	-	0.2	12.0
	Manston	154	1021.3	-2	NE	2	zo	60	97	5	-	-	-	0	0	-	1020.3	-2	NE	3	zo	63	92	5	5	-	-	4-6	4-6	450	0	*	68	59	56	-	Tr	12.6
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.3	0	N	3	c	64	92	5	5	-	-	9	9	800	0	*	69	57	49	-	-	11.1
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.5	+2	NE	3	zo	63	97	5	5	-	-	9+	9+	800	0	1	68	57	55	-	-	10.4
	Gorleston	5	1022.5	-2	NE'E	3	bc	62	85	7	5	-	-	4-6	4-6	2500	1021.9	+2	NE	2	c	63	92	6	5	-	-	10	10	1500	0	2	67	61	59	-	-	11.1
	Mildenhall	19	1022.4	0	ENE	2	bf+	52	97	3	-	-	-	0	0	-	1021.9	0	-	0	zo	55	97	5	5	-	-	10	10	450	1	*	74	47	44	-	Tr	10.5
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.6	-2	-	0	zo	59	85	6	5	-	-	9	9	1500	0	*	74	49	43	-	-	11.4
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.3	0	NE	1	m	57	85	4	-	-	-	0	0	-	0	*	74	53	39	-	-	9.8
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.1	0	NE	1	f	55	97	2	-	-	-	10	10	<150	0	*	75	52	47	-	-	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.6	0	-	0	m/f	54	97	4	-	-	-	0	0	-	0	*	75	50	44	-	-	11.3
5	Hartland Point	299	1020.3	-2	ENE	1	b	63	85	8	-	-	-	0	0	-	1019.7	0	E	2	b	63	75	8	-	-	-	0	0	-	0	1	71	60	54	-	-	8.2
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.5	0	-	0	zo	56	92	6	-	-	-	0	0	-	0	*	75	51	41	-	-	10.6
	Portland Bill	32	1020.4	+2	ENE	2	bc	61	85	8	5	-	-	2-3	2-3	4000	1020.2	0	ENE	3	bc	61	85	7	5	-	-	2-3	2-3	2500	0	2	65	59	*	-	-	*
	Plymouth	82	1020.7	-2	N'E	1	b	57	75	7	-	-	-	0	0	-	1019.6	-2	-	0	b	60	75	8	-	-	-	0	0	-	0	0	73	54	46	-	-	11.[illegible]
	The Lizard	240	1020.3	-4	NE	2	b	62	65	8	-	-	-	0	0	-	1019.4	-2	NE'E	3	bc	61	85	7	7	-	-	2-3	2-3	4000	0	2	68	57	*	-	-	12.6
	Scilly (St. Mary's)	163	1020.7	-2	NE'E	2	b	58	97	8	-	-	-	0	0	-	1019.6	-2	NE'N	2	b	59	92	7	-	-	-	0	0	-	0	1	71	57	*	-	0.1	11.9
	Guernsey	175	1019.1	-2	NE	4	b	60	92	7	-	-	-	0	0	-	1017.8	-4	NNE	2	zo	61	97	6	-	-	-	0	0	-	0	1	68	58	55	-	-	13.3
6	Pembroke	142	1021.2	0	E	3	bc	63	85	7	5	-	-	2-3	2-3	220	1020.8	+2	E	3	bc	60	85	6	-	1	-	0	2-3	-	0	1	72	59	*	-	-	11.0
7	Holyhead	26	1021.1	-6	-	0	bc	60	85	7	5	-	-	2-3	2-3	2500	1020.5	0	-	0	c	61	92	6	7	8	-	4-6	7-8	2500	0	0	66	58	51	-	Tr	13.7
	Chester (Sealand)	16	1022.2	-2	-	0	zo	59	85	6	-	-	-	0	0	-	1021.9	0	SE'S	2	zo	57	85	6	-	-	-	0	0	-	0	*	79	54	49	-	-	12.1
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.2	0	-	0	bf	55	97	3	-	-	-	0	0	-	0	*	77	53	48	-	-	8.4
10	Spurn Head	29	1023.1	0	-	0	b	59	92	6	-	-	-	0	0	-	1022.7	-2	-	0	bcjf	61	92	6	5	-	-	4-6	4-6	450	1	0	68	57	*	-	Tr	12.8
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.4	+2	SSE	1	F-	53	97	1	-	-	-	10	10	<150	0	*	76	51	49	-	-	12.7
	Tynemouth	108	1022.5	-8	S	2	bc	60	85	6	5	-	-	4-6	4-6	1500	1021.7	+4	SSW	2	bc	58	92	5	5	-	-	4-6	4-6	1500	0	0	67	56	52	-	-	10.9
11	St. Abbs Head	280	1021.5	-8	WNW	1	b	60	75	7	-	-	-	0	0	-	1021.6	0	-	0	bc	58	85	7	4	5	-	2-3	2-3	2500	1	1	68	54	*	-	Tr	*
	Leuchars	36	1022.0	-4	-	0	b	49	97	7	-	-	-	0	0	-	1021.2	-4	W	1	zo	52	97	6	5	3	5	2-3	4-6	2500	0	*	68	46	36	-	-	13.2
12	Renfrew (Abbots I.)	19	1022.0	-2	-	0	bf+	49	97	2	-	-	-	0	0	-	1021.9	+2	-	0	m/f	49	97	4	-	3	9	0	2-3	-	0	*	70	44	42	-	-	8.8
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.3	0	-	0	bcfg	48	85	6	-	-	1	0	2-3	-	1	*	73	42	35	-	-	12.7
	Point of Ayre	30	1022.1	0	-	0	b	49	97	8	-	-	-	0	0	-	1021.6	0	-	0	b	55	97	8	5	-	-	1	1	2500	1	0	67	48	*	-	-	12.9
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.9	0	SSW	2	c	57	97	8	5	-	-	7-8	7-8	2500	0	1	64	49	45	-	-	4.7
13B	Stornoway	80	1020.7	-4	SSW	3	c	56	85	7	5	7	-	2-3	9	2500	1019.9	0	SSW	6	c	56	85	8	5	4	9	4-6	9+	2500	1	3	62	55	*	-	-	3.7
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	+2	-	0	c	55	85	8	4	5	8	1	9+	4000	0	*	67	44	35	-	-	6.7
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.0	-2	NW	1	bc	51	97	6	-	-	6	0	2-3	-	0	1	63	46	40	-	-	9.4
	Wick	81	1020.5	-6	W	3	bc	53	97	7	5	4	-	2-3	4-6	1500	1019.8	-2	S	2	bc	55	92	7	5	6	1	2-3	4-6	2500	0	1	59	47	*	-	-	*
16	Lerwick	156	1021.0	-10	S'W	3	o	54	97	6	5	-	-	10	10	450	1020.6	-2	S'W	3	F	51	97	1	-	-	-	10	10	<150	1	*	60	50	*	-	-	1.9
17	Blacksod Point	18	1022.0	-4	-	0	b	49	97	9	-	-	-	0	0	-	1020.9	-4	SSE	3	c	59	75	9	5	-	-	7-8	7-8	1500	0	2	64	48	*	-	-	*
18	Malin Head	84	1021.8	0	W	1	c	57	85	7	8	-	-	9	9	4000	1021.6	0	S'W	1	c	58	85	7	5	9	-	4-6	9	2500	0	2	62	53	*	-	-	6.0
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.4	-4	-	0	c	51	97	7	5	-	7	4-6	10	4000	1	*	71	47	43	-	-	9.5
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1021.9	0	S	1	of	52	97	3	5	-	-	10	10	2500	0	*	75	52	42	-	-	11.5
20	Valentia Obsy. †	30	1022.1	0	-	0	c	58	97	8	5	-	-	10	10	1500	1021.5	+2	ENE	1	c	56	97	8	5	-	-	9+	9+	1500	0	2	64	53	49	-	Tr	7.9
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1020.7	0	N	3	b	57	92	9	-	-	1	0	1	-	0	1	66	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 (24 hrs. ended 9h.): Morning	Afternoon	Night	Temperature: Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall: Day mm.	Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bfzwbc	bcbybzo	bzbw	74	59	49	-	-	11.1	*	*	6
Croydon	217	bmobczo	bczoby	bbccmw	74	58	55	-	-	12.4	*	*	6
Greenwich (Royal Observatory)	149	bzy	by	bwmoc	74	58	52	-	Tr	11.9	51	82	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park)	27	*	*	*	76	60	56	-	-	10.9	63	83	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	78	58	53	-	-	*	61	62	*
Camden Square	110	o	bc	*	78	59	55	-	-	*	*	83	*
Kensington	80	bm	bc	*	77	59	53	-	-	11.0	At 18h 64	82	*
Hampstead Observatory	450	bc	b	c	73	56	55	-	-	11.8	*	90	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 18th

South Kensington: Max.	Time.	Min.	Time.
0.6	7-8h 17th	<0.3	17-20h 17th

Kew Observatory: Max.	Time.	Min.	Time.
0.3	8-9h 17th	<0.1	12-18h 17th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 17th August: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 18th August: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Night mm.
Paris	1017.4	NE	3	b	75	1017.3	NNE	3	zo	61	77	57	-	-
Brussels	1019.9	NE	3	bc	72						75		-	
Dublin	1020.5	NNE	2	c	72	1021.3	NNE	1	f-	61	75	61	-	-
Zürich	1016.4	NNE	1	bc	70	1016.2	NNE	1	zo	59	75	55	-	-
Rome	1012.1	WSW	2	bc	77	1013.2	ENE	1	zo	70	*	*	-	-

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.

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

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

† 1 hr. observations are from Valentia W.T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday, 19th August, 1939
No. 28394.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1019.5	–10	ENE	3	c	72	65	7	8	–	–	7-8	7-8	4000
	Croydon ...	1019.8	–10	ENE	3	bc	72	75	7	2	–	–	4-6	4-6	4000
	S. Farnborough	1019.1	–10	NNE	3	z$_o$	73	65	6	7	–	–	4-6	4-6	2500
	Boscombe Down	1019.3	–14	ENE	3	z$_o$	70	65	6	1	–	–	4-6	4-6	2500
	Calshot (Soton.)	1018.8	–6	ENE	3	z$_o$	74	65	7	1	–	–	2-3	2-3	4000
	Lympne ...	1019.0	–6	NE'N	5	b	71	65	6	1	–	–	Tr	Tr	1500
	Manston ...	1019.4	–6	NE	4	b	69	75	6	–	–	–	0	0	–
2	Shoeburyness ...	1020.2	–4	NE	4	b	71	75	7	1	–	–	Tr	Tr	2500
	Felixstowe ...	1020.4	–6	E	4	z$_o$	70	75	6	2	–	–	Tr	Tr	4000
	Gorleston ...	1021.0	–6	NNE	3	b	67	85	6	–	–	–	0	0	–
	Mildenhall ...	1020.5	–12	NNE	2	z$_o$	70	75	6	8	–	–	7-8	7-8	2500
	Cranwell ...	1021.2	–10	E	1	b	71	55	8	–	–	–	0	0	–
3	Birmingham ...	1020.7	–6	ENE	2	z$_o$	68	65	6	–	–	–	0	0	–
	Upper Heyford	1021.3	–6	NE	1	z$_o$	63	85	6	5	–	–	10	10	800
4	Ross-on-Wye ...	1020.1	–8	NE	3	b	69	65	7	1	–	–	Tr	Tr	4000
5	Hartland Point	1018.7	–4	NE	2	b	67	75	7	4	–	–	1	1	5700
	Bristol ...	1020.2	–6	E'N	2	b	68	75	7	1	–	–	1	1	2500
	Portland Bill ...	1018.6	–6	ENE	3	bc	70	75	7	5	–	–	2-3	2-3	2500
	Plymouth ...	1018.6	–6	ESE	3	bc	74	55	8	1	–	–	2-3	2-3	4000
	The Lizard ...	1018.9	–2	NE'E	2	b	68	75	7	–	–	–	0	0	–
	Scilly (St. Mary's)	1019.0	–6	E	2	b	72	75	7	–	–	–	0	0	–
	Guernsey ...	1017.4	–6	NE	4	z$_o$	65	85	6	1	–	–	1	1	1500
6	Pembroke ...	1019.5	–4	S'E	3	b	67	75	6	7	–	–	Tr	Tr	4000
7	Holyhead ...	1020.0	–2	NW	2	b	67	75	7	–	–	–	0	0	–
	Chester (Sealand)	1020.2	–10	SSE	1	b	77	45	7	1	–	–	Tr	Tr	4000
8	Manchester ...	1019.9	–14	SSE	2	z$_o$	77	45	6	1	–	–	2-3	2-3	4000
10	Spurn Head ...	1021.3	–4	E	3	b	66	85	7	1	–	–	Tr	1	1500
	Catterick ...	1021.1	–10	SSE	1	z$_o$	73	55	6	–	–	1	0	4-6	–
	Tynemouth ...	1021.3	–4	SE	2	bc	58	92	5	5	–	–	4-6	4-6	2500
11	St. Abbs Head...	1020.5	–4	SE	2	bc	68	65	6	1	4	7	Tr	4-6	2500
	Leuchars ...	1020.2	–6	E	3	z$_o$	74	55	6	1	–	8	Tr	2-3	4000
12	Renfrew (Abbotsinch)	1020.5	–10	NW	1	z$_o$	73	65	6	1	–	1	4-6	4-6	4000
	Eskdalemuir ...	1019.7	–8	SW	2	b	71	65	7	1	–	1	Tr	Tr	4000
	Point of Ayre ...	1020.4	–8	SSE	3	b	69	75	7	–	–	–	0	0	–
13a	Tiree ...	1021.0	0	SSW	3	bc	61	75	8	7	5	6	4-6	4-6	2500
13b	Stornoway ...	1020.1	+2	SSW	5	c	60	85	8	5	5	4	4-6	7-8	2500
15	Dalwhinnie ...	1020.0	–6	SW	3	c	69	65	8	4	4	8	2-3	9+	4000
	Aberdeen ...	1020.2	–6	SE	2	bc	71	55	6	1	3	6	Tr	2-3	2500
	Wick ...	1019.8	0	S	3	bc	60	85	8	7	7	8	2-3	4-6	2500
16	Lerwick...	1018.6	–14	S	4	c	57	92	7	5	3	–	4-6	7-8	800
17	Blacksod Point...	1021.2	0	W	3	bc	64	75	9	2	3	3	2-3	4-6	1500
18	Malin Head ...	1021.6	0	N	1	c	60	85	7	5	–	–	9	9	1500
	Aldergrove ...	1020.5	–6	–	0	z$_o$	70	65	6	–	3	–	0	2-3	–
19	Birr Castle ...	1020.9	–4	NW	2	c	67	75	8	5	–	–	9	9	2500
20	Valentia Obsy.†	1021.2	–2	NW'N	4	b	65	75	8	1	–	1	1	1	2500
	Roches Point ...	1020.0	–4	SE	2	bc	68	75	8	1	–	1	1	2-3	4000

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1018.3	–4	E'N	3	bc	73	55	6	8	–	–	4-6	4-6	4000	0	*
Croydon	1018.6	–2	E'N	2	b	70	75	6	4	–	–	Tr	Tr	4000	0	*
S. Farnborough	1018.0	+2	ENE	3	z$_o$	72	65	6	–	–	–	0	0	–	0	*
Boscombe Down	1018.1	–4	NNE	3	z$_o$	68	75	6	4	–	–	2-3	2-3	5700	0	*
Calshot (Soton.)	1017.6	–6	E'S	2	z$_o$	69	85	6	–	–	–	0	0	–	0	1
Lympne	1017.7	–6	NNE	4	b	67	75	7	–	–	–	0	0	–	0	§2
Manston	1017.7	–8	NNE	4	b	66	85	6	–	–	–	0	0	–	0	*
Shoeburyness	1018.6	–8	NE	4	b	67	85	6	–	–	–	0	0	–	0	*
Felixstowe	1018.9	–10	NE	4	z$_o$	63	75	6	–	–	–	0	0	–	0	2
Gorleston	1019.6	–6	NE'N	3	b	66	85	6	–	–	–	0	0	–	0	2
Mildenhall	1019.1	–2	E'N	3	b	70	75	7	–	–	–	0	0	–	0	*
Cranwell	1020.3	–2	E	2	z$_o$	66	85	6	–	–	–	0	0	–	0	*
Birmingham	1019.4	–4	E	2	b	70	65	7	1	–	–	1	1	4000	0	*
Upper Heyford	1019.5	–12	NE'N	2	z$_o$	69	75	6	–	–	–	0	0	–	0	*
Ross-on-Wye	1018.8	–6	NE'E	2	b	70	65	7	–	–	–	0	0	–	0	*
Hartland Point	1017.7	–4	NE	1	b	69	75	8	–	–	–	0	0	–	0	1
Bristol	1019.0	–4	ENE	2	z$_o$	70	65	7	–	–	–	0	0	–	0	*
Portland Bill	1017.6	–6	E	2	b	68	85	7	–	–	–	0	0	–	0	2
Plymouth	1017.7	–4	ESE	2	b	72	55	8	4	–	–	Tr	Tr	5700	0	0
The Lizard	1018.4	–4	NE'E	2	b	67	85	7	–	–	–	0	0	–	0	2
Scilly (St. Mary's)	1018.5	–2	NE'N	2	b	65	85	7	–	–	–	0	0	–	0	1
Guernsey	1016.2	–8	NE	4	z$_o$	65	85	6	–	–	–	0	0	–	0	3
Pembroke	1019.1	–8	NNE	4	b	67	65	6	–	–	–	0	0	–	0	1
Holyhead	1019.2	–6	NW	1	b	63	85	7	5	–	–	1	1	1500	0	0
Chester (Sealand)	1019.1	–6	S'E	1	b	74	55	7	–	–	–	0	0	–	0	*
Manchester	1019.3	–2	SSE	1	z$_o$	73	65	6	7	3	–	4-6	9	4000	0	*
Spurn Head	1020.5	–6	E	3	b•	62	85	6	5	–	–	Tr	Tr	1500	1	1
Catterick	1019.6	–6	S'E	1	b	71	65	7	–	–	–	0	0	–	0	*
Tynemouth	1020.1	–4	SSE	3	bc	60	92	6	5	–	–	4-6	4-6	1500	0	1
St. Abbs Head	1018.9	–8	SSE	4	bc	61	75	7	4	4	7	2-3	4-6	2500	0	1
Leuchars	1019.4	0	SE	1	bc	68	65	7	–	3	–	0	2-3	–	0	*
Renfrew (Abbotsinch)	1019.5	–4	W'N	3	b	69	75	8	1	4	–	Tr	1	4000	0	*
Eskdalemuir	1018.8	–4	SW	1	b	70	75	7	–	6	–	0	Tr	–	0	*
Point of Ayre	1019.8	–4	–	0	b	66	85	7	5	–	–	1	1	2500	0	0
Tiree	1020.6	0	SW'S	2	bc	60	85	8	1	3	–	1	2-3	4000	0	1
Stornoway	1019.9	0	SSW	4	pr	58	92	8	5	7	–	9	10	1800	1	2
Dalwhinnie	1020.0	–2	SW	2	bc	65	65	8	4	5	–	1	4-6	4000	0	*
Aberdeen	1019.3	–2	SSE	3	bc	63	75	6	–	9	9	0	4-6	–	0	1
Wick	1019.9	0	NE	2	c	58	85	7	5	7	1	4-6	9	1500	0	1
Lerwick	1018.6	+6	S'W	3	c	57	85	8	5	7	–	4-6	7-8	1500	0	*
Blacksod Point	1020.9	–4	W	3	c	62	85	8	5	–	–	7-8	7-8	1500	0	2
Malin Head	1021.2	–2	NE	1	c	60	75	8	7	9	–	4-6	7-8	4000	0	3
Aldergrove	1019.7	–2	–	0	c	69	75	7	5	–	–	9	9	4000	1	*
Birr Castle	1020.3	–10	NW	1	c	68	75	8	5	1	–	4-6	10	2500	0	*
Valentia Obsy.†	1020.7	–2	NNW	4	bc	63	75	8	1	–	6	Tr	2-3	2500	0	2
Roches Point	1019.2	–6	SW	2	c	67	85	8	8	–	–	7-8	7-8	2500	0	1

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)	cz$_o$bc	bcybz$_o$y	bczbz	bbcomw
Croydon	cmmbcz	bcbz$_o$	bzmcw	cmom
S. Farnborough	cm$_o$bcz	bcbz$_o$y	bz wo	om
Boscombe Down	fcm$_o$bcm	bcbz$_o$	bzm	bm$_o$bmF
Calshot (Soton.)	bcm$_o$bm$_o$	bz$_o$	bmw	bmwom
Lympne	bcm$_o$bz	bz$_o$b	b m	bwcm
Manston	bc	bm$_o$	bmw	bbcmw
Shoeburyness	bcm$_o$c	bbm$_o$	bmw	bwmg
Felixstowe	cm$_o$bm$_o$	bm$_o$	bm	bmwcm
Gorleston	cbcbz$_o$	bz$_o$z$_o$	bz	bbcz
Mildenhall	omcm$_o$	cz$_o$b	bmbffe	bfeofe
Cranwell	cm$_o$bcby	bybcbm$_o$	boff	offfe
Birmingham	mbz	bbcz	bbcm	bcowf
Upper Heyford	ofmm$_o$	cm$_o$bz$_o$	bzm	bmmbom
Ross-on-Wye	bz$_o$b	bbcb	bmw	bmwff
Hartland Point	bbc	bcb	b	bbcm
Bristol	b,c,bm$_o$	bz$_o$	bz m$_o$	bmjf
Portland Bill	bc	bcb	b	bcc
Plymouth	bbcy,	bcybby	by bmw	bwbmb
The Lizard	bcb	b	bbcb	b
Scilly (St. Mary's)	FFeb	b	bbcw	bcw
Guernsey	czbcz	bcbz	bzw	bwz
Pembroke	bz$_o$	bz$_o$	bbcz	bcbz
Holyhead	cm$_o$b	bc,b	bmw	bmw
Chester (Sealand)	bwz$_o$m$_o$y	by	bmw	bmfew
Manchester	bfbcz$_o$y	bcz$_o$ycz$_o$	czbmw	bmfw
Spurn Head	bc	bc	bw	bf
Catterick	ofebz$_o$	z$_o$ybyb	bbm bm	bmofe
Tynemouth	bcm	bc	bc	bcoff
St. Abbs Head	bbcm$_o$	mobc	b	cbcm
Leuchars	bcm$_o$bcy	bcz$_o$yb	bmw	bwcw
Renfrew (Abbotsinch)	bcz$_o$	bcz$_o$bcb	bmw	bmbcbcw
Eskdalemuir	bm$_o$b	b	b	bcw
Point of Ayre	bz	bz$_o$		bbcc
Tiree	bc	bc	bcw	bcw
Stornoway	c	cpr		cbc
Dalwhinnie	c	cbc		c
Aberdeen	bcbz$_o$	bbcz$_o$	bwbcc	bwbcc
Wick	bc	bcc	bcf	Ffec
Lerwick	ofc	cif	cif	cofe
Blacksod Point	bc	bc	idr	c
Malin Head	c	cbcc	cbcbc	c
Aldergrove	c;bbcz$_o$	bcz$_o$c	cmbcw	bccwc
Birr Castle	offc	c	c	cbc
Valentia Obsy.†	cbcb	bbc	bcw	bcwb
Roches Point	bbc	bcc	cbc	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, 15, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually 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.*

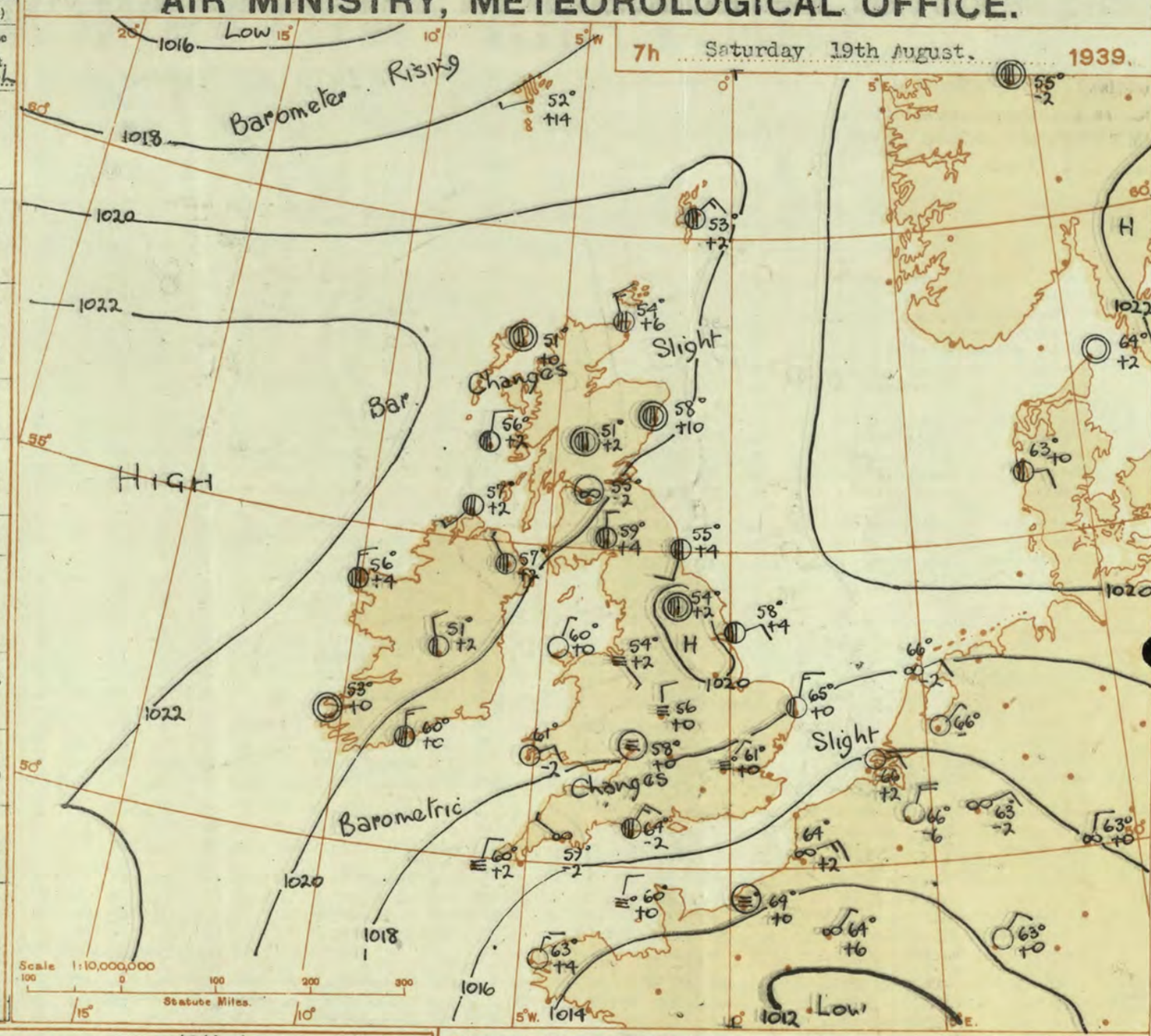
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 18th August, 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 17th to 9h. 18th	Temperature. (°F) Max. 9h.—17h. 18th	Rainfall. (mm.) Night. 17h. 17th to 9h. 18th	Rainfall. (mm.) Day. 9h.—17h. 18th	Sunshine. (Hrs.) Sunrise to 17h. 18th	Sunshine. (Hrs.) Sunrise to Sunset. 17th
1	Tunbridge W.	cbcb	b	55	76	—	—	8.6	12.6
	Bournemouth	b	b	53	78	—	—	9.4	10.7
	Ventnor ...	bz	bz	59	74	—	—	10.9	12.4
	Southsea ...	b	b	56	77	—	—	10.9	12.1
	Bognor Regis	b	bbcb	57	76	—	—	10.8	12.5
	Littlehampton	b	bbc	57	76	—	—	10.5	12.9
	Worthing ...	b	bc	56	76	—	—	10.2	12.3
	Brighton ...	b	bbc	59	78	—	—	10.5	12.5
	Eastbourne† ..	b	b	58	72	—	—	10.6	12.8
	Hastings† ...	bbcb	b	56	76	—	—	10.4	13.2
	Folkestone ...	zbcb	b	60	74	—	—	10.9	12.7
	Dover ...	bcb	b	61	74	—	—	11.2	12.7
	Deal	b	b	61	71	—	—	11.1	12.6
	Ramsgate ...	zbc	b	61	69	—	—	10.5	12.9
	Margate ...	bc	bc	61	66	—	—	10.2	12.7
2	Southend ...	bcb	b	56	74	—	—	9.0	10.9
	Clacton-on-Sea	bcm	bcbm	59	71	—	—	8.1	10.2
	Dovercourt ..	ocf	b	58	71	—	—	8.9	10.4
	Lowestoft ...	ozcb	b	60	69	—	—	6.8	10.8
	Skegness ...	cbcb	b	57	66	—	—	9.1	13.3
	Mablethorpe...	bcb	bcbcbz	48	66	—	—	7.3	12.2
	Cleethorpes ...	cbcb	b	54	66	—	—	7.8	12.9
3	Leamington S.	ocbc	bc	52	73	—	—	7.6	11.0
4	Cheltenham†	wb	b	53	74	—	—	10.2	9.7
5	Bath	mcbcb	b	54	72	—	—	6.6	10.4
	Weymouth ...	mb	b	57	75	—	—	11.4	11.9
	Jersey ...	bcb	b	61	75	—	—	10.5	13.2
	Torquay ...	b	b	54	74	—	—	11.4	12.0
	Falmouth ...	b	b	56	73	—	—	11.2	12.6
	Penzance ...	b	b	58	73	—	—	10.2	11.0
	St. Ives ...	b	b	55	76	—	—	10.1	10.6
	Bude... ...	b	bc	53	77	—	—	11.2	9.2
	Ilfracombe ...	bzbcb	bcbz	59	71	—	—	11.3	7.3
6	Aberystwyth	zbc	bbc	59	71	—	—	11.5	12.1
7	Llandudno ...	bcb	bz	58	73	—	—	8.1	12.5
	Colwyn Bay...	cbcb	bbcb	*	72	—	—	8.1	13.0
	Rhyl	bz	bz	54	79	—	—	*	11.4
8	Wallasey ...	bzb	bbcz	59	72	—	—	10.5	10.1
	Southport ...	bz	bzbcz	53	78	—	—	9.7	11.7
	Blackpool ...	bcm	bcm	54	74	—	—	8.5	12.0
	Morecambe ...	bc	bc	57	71	—	—	4.1	11.3
9	Ilkley... ...	zcbc	b	54	75	—	—	7.5	10.4
	Harrogate ...	b	b	51	73	—	—	10.5	12.0
10	Berwick-on-T.	bcmb	mmb	50	66	—	—	10.8	13.3
11	Dunbar ...	bcm	bcm	48	68	—	—	11.1	13.3
12	Troon... ...	bbcb	bbcb	52	67	—	—	10.6	9.4
	Douglas ...	bz	bz	62	72	—	—	8.3	13.1

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 19th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind becoming northerly, light; fine; local fog in the early morning; 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. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	Wind northerly to variable, light; fair; somewhat cooler but still warm.
19 S. E. Ireland 20 S. W. Ireland	Wind northerly, light; fine to fair; rather warm.

GENERAL INFERENCE.

A belt of high pressure extending from the Atlantic across the British Isles to the Baltic will persist. Weather will continue fair to fine generally but with rather more cloud in western and northern districts. Conditions will become somewhat cooler in the West and North but day temperatures will continue above the seasonal average generally. Morning fog will be less prevalent.

FURTHER OUTLOOK.

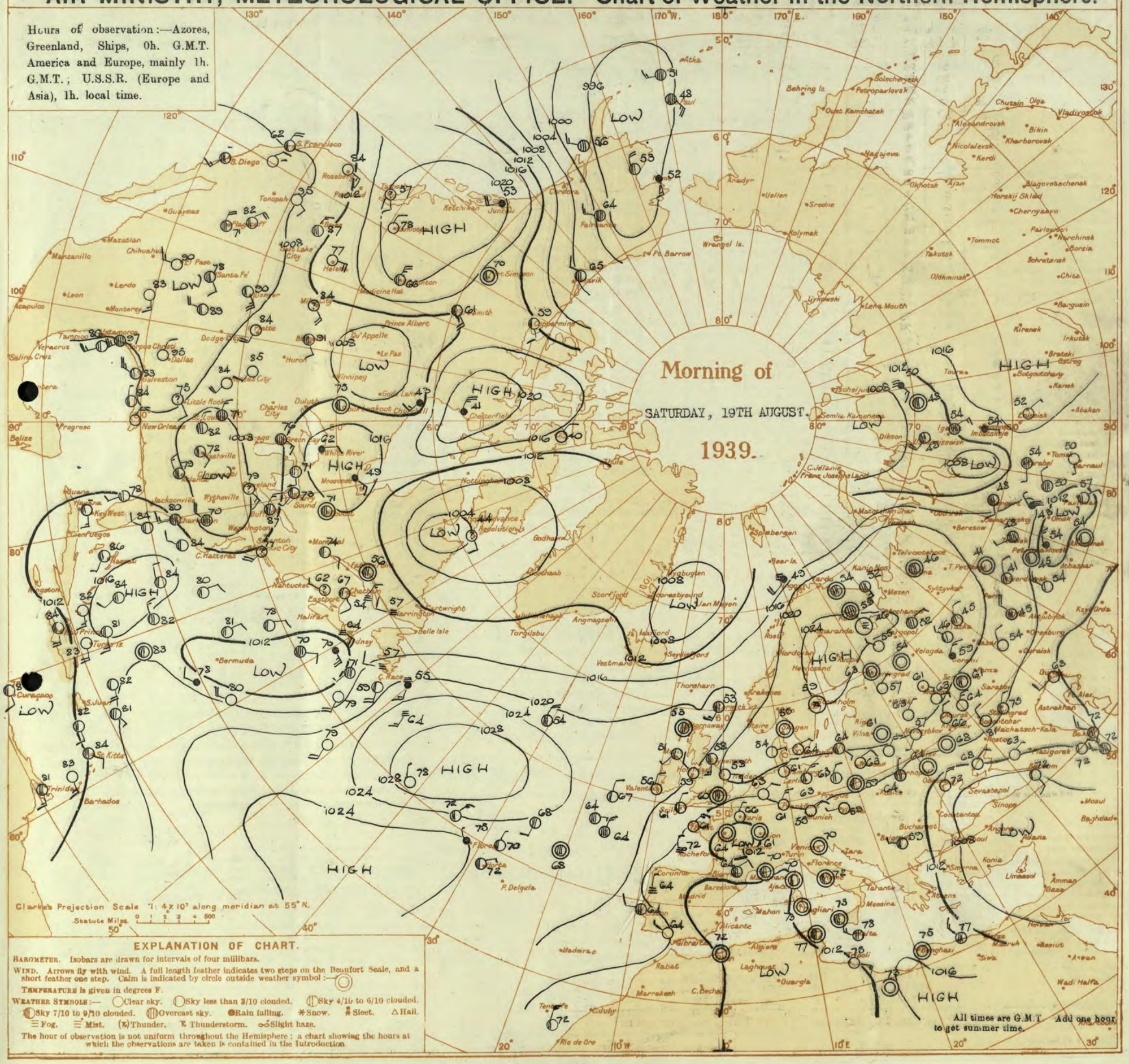
Fair generally but somewhat cooler.

Forecasts issued at 0930 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

Saturday, 19th August, 1939

No. 28394.

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

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	1019.1	0	-	0	3*	60	97	5	5	-	-	9+	9+	800
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1018.0	-8	NE	3	3	61	85	6	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1017.0	-8	NE	2	3	62	92	6	-	-	-	0	0	-
	Lympne ...	346	1017.0	-10	NNE	4	3	62	87	5	-	-	-	0	0	-
	Manston ...	154	1017.0	-10	NNE	3	3	63	92	6	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1019.0	-8	NNE	4	b	63	85	6	-	4	-	0	1	-
	Mildenhall ...	19	1018.9	-10	NNE	1	bf	53	97	2	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1017.8	-4	NE	1	b	63	85	8	-	-	-	0	0	-
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1017.0	-16	NE	2	b	63	86	7	-	-	-	0	0	-
	Plymouth ...	82	1017.4	-10	-	0	3	61	85	6	-	-	-	0	0	-
	The Lizard ...	240	1017.7	-8	NNE	2	b	63	75	7	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1018.3	-4	NNE	2	bc	61	97	6	5	-	-	4-6	4-6	4000
	Guernsey ...	175	1016.0	-12	NNE	3	b	61	92	7	-	-	-	0	0	-
6	Pembroke ...	142	1018.7	0	ENE	3	3	62	86	6	5	-	-	2-3	2-3	2500
7	Holyhead ...	26	1018.6	+0	NW	2	b	59	97	6	-	-	-	0	0	-
	Chester (Sealand)	16	1019.6	-2	SE	1	3	55	92	5	-	-	-	0	0	-
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1019.9	-4	E	3	b	58	97	6	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1019.8	-6	S	3	bc	58	92	6	5	-	-	2-3	2-3	1500
11	St. Abbs Head	280	1019.7	+4	NW	1	b	59	85	7	-	-	-	0	0	-
	Leuchars	36	1019.6	-2	-	0	3	54	92	6	-	-	-	0	0	-
12	Renfrew (Abbots I.)	19	1020.2	-2	WSW	1	b	58	97	7	-	-	-	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1019.6	0	WNW	2	bc	57	97	8	5	-	-	2-3	2-3	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1021.1	0	-	0	c	58	97	8	5	7	-	4-6	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1019.5	-8	N	2	F	54	97	1	-	-	-	10	10	<150
16	Lerwick ...	156	1020.5	-2	SSW	3	c/f	53	97	7	5	7	-	4-6	7-8	800
17	Blacksod Point	18	1021.5	0	W	2	c	56	92	7	5	-	-	10	10	450
18	Malin Head ...	84	1020.9	+2	SW	1	bc	51	92	7	5	-	-	2-3	2-3	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1021.1	-2	N	2	b	56	97	8	-	-	-	0	0	-
•	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1017.3	0	NE	2	3	61	92	5	5	-	-	10	10	1500	0	*
Croydon ...	1017.8	0	NE	1	3	61	97	4	5	-	-	10	10	450	0	*
S. Farnborough	1017.0	+2	NE	2	3	60	92	5	5	-	-	10	10	450	0	*
Boscombe Down	1017.2	0	NNE	3	bf	59	97	2	-	-	-	10	10	<150	1	*
Calshot (Sthmtn.)	1016.1	+2	NNW	3	3	62	97	5	5	-	-	10	10	450	0	1
Lympne ...	1016.1	0	NNE	4	3	63	97	5	5	-	-	2-3	2-3	2200	0	§2
Manston ...	1016.3	+4	NNE	3	3	64	97	4	1	-	-	4-6	4-6	2500	0	*
Shoeburyness ...	1017.1	0	NNE	3	c	64	97	5	5	-	-	9+	9+	450	1	*
Felixstowe ...	1017.2	+2	NNE	3	3	63	97	5	5	-	-	4-6	4-6	800	1	2
Gorleston ...	1018.0	0	NNE	3	bc	65	92	6	5	-	-	4-6	4-6	2500	0	2
Mildenhall ...	1018.2	+4	ENE	2	f	60	97	2	-	-	-	10	10	<150	1	*
Cranwell ...	1020.0	+2	NNE	1	F	56	97	1	-	-	-	10	10	<150	0	*
Birmingham ...	1019.3	0	N	2	F+	56	97	1	-	-	-	10	10	<150	0	*
Upper Heyford	1018.7	+2	NNW	2	3	56	97	4	5	-	-	9	9	1500	6	*
Ross-on-Wye	1018.7	0	-	0	f	58	97	2	-	-	-	10	10	<150	0	*
Hartland Point	1017.3	0	NE	2	bc	61	97	6	5	-	-	4-6	4-6	1500	0	2
Bristol ...	1018.6	+2	NE	3	if	58	97	3	-	-	-	10	10	<150	0	*
Portland Bill ...	1015.8	-2	NE	3	c	64	85	7	5	-	-	7-8	7-8	4000	0	2
Plymouth ...	1016.9	-2	NNW	1	3	59	85	5	-	-	-	0	0	-	0	1
The Lizard ...	1017.2	-8	NE	2	bc	63	85	7	-	-	-	0	0	-	0	1
Scilly (St. Mary's)	1017.7	+2	NNE	2	if	60	97	6	-	-	-	0	0	-	0	1
Guernsey ...	1015.4	0	NE	2	m	60	97	4	-	-	-	10	10	<150	0	3
Pembroke ...	1018.5	-2	ENE	2	b	61	85	6	-	-	-	0	0	-	0	1
Holyhead ...	1018.5	+2	NNE	1	b	60	92	5	-	-	-	0	0	-	0	1
Chester (Sealand)	1019.3	+2	SE'S	1	f+	54	92	1	-	-	-	10	10	<150	0	*
Manchester ...	1019.5	+2	ENE	1	f+	56	97	2	-	-	-	0	0	-	0	*
Spurn Head ...	1019.3	+4	ENE	2	f	58	97	2	5	-	-	10	10	220	1	1
Catterick ...	1020.0	+2	-	0	f	54	97	3	-	-	-	10	10	<150	0	*
Tynemouth ...	1019.8	+4	SSW	2	of	55	97	3	5	-	-	10	10	1500	0	0
St. Abbs Head	1019.2	0	WNW	2	bc	57	65	6	5	4	-	4-6	4-6	1500	0	1
Leuchars	1020.0	+2	-	0	c	56	92	7	5	3	-	4-6	9+	1500	0	*
Renfrew (Abbots I.)	1020.1	-2	-	0	3	55	97	7	5	6	-	4-6	7-8	1500	0	*
Eskdalemuir ...	1019.5	+4	N	2	c	59	85	7	5	-	-	9+	9+	2500	1	*
Point of Ayre ...	1019.3	0	-	0	c	59	97	8	-	8	-	0	9+	-	0	0
Tiree ...	1020.7	+2	NE	2	c	56	97	8	5	-	-	7-8	7-8	2500	0	1
Stornoway ...	1021.6	0	-	0	bc	51	92	8	5	4	9	1	2-3	4000	1	0
Dalwhinnie ...	*	+2	-	0	c	51	97	7	5	-	-	10	10	2500	0	*
Aberdeen ...	1020.6	+10	-	0	c	58	92	7	8	8	-	2-3	9	4000	0	1
Wick ...	1020.4	+6	NNW	3	c	54	97	7	5	2	-	9	10	1500	1	1
Lerwick ...	1020.9	+2	NE	3	c/f	53	97	6	5	3	-	9	10	800	1	*
Blacksod Point	1021.5	+4	N	3	c	56	75	8	5	-	-	7-8	7-8	800	0	3
Malin Head ...	1020.6	+2	SW	1	c	57	92	8	5	6	-	2-3	9	5700	0	4
Aldergrove ...	1020.2	+2	NNW	1	c	57	85	7	5	7	-	4-6	7-8	2500	1	*
Birr Castle ...	1020.7	+2	NNW	2	bc	51	97	7	5	-	-	2-3	2-3	2500	0	*
Valentia Obsy. †	1020.7	0	-	0	b	53	92	8	1	-	1	Tr	Tr	1500	0	2
Roches Point	1019.3	0	N	3	c	60	92	8	5	-	-	9	9	2500	0	1

PAST 24 HOURS

Stations	Temperature Max. Day 7h–18h. °F.	Temperature Min. Night 18h–7h °F	Temperature Min. on Grass °F.	Rainfall Day 7h–18h n.m.	Rainfall Night 18h–7h m.m.	Sunshine 18th Hrs. (36)
London (Kew)	75	59	52	-	-	8.9
Croydon ...	75	59	52	-	-	8.6
S. Farnborough	77	59	51	-	-	8.8
Boscombe Down	73	55	52	-	-	6.9
Calshot (Sthmtn.)	75	60	58	-	-	12.1
Lympne ...	72	61	60	-	-	12.1
Manston ...	71	62	59	-	-	11.4
Shoeburyness ...	72	60	57	-	-	9.8
Felixstowe ...	71	60	59	-	-	10.5
Gorleston ...	68	68	61	-	-	8.9
Mildenhall ...	75	50	48	-	Tr	4.8
Cranwell ...	72	55	53	-	Tr	10.3
Birmingham ...	72	55	50	-	-	9.8
Upper Heyford	69	55	54	-	-	*
Ross-on-Wye	72	52	49	-	-	12.4
Hartland Point	69	61	57	-	-	12.4
Bristol ...	71	55	45	-	-	10.7
Portland Bill ...	72	60	*	-	-	*
Plymouth ...	75	57	49	-	-	12.8
The Lizard ...	70	58	*	-	-	12.6
Scilly (St. Mary's)	73	58	*	0.1	-	11.0
Guernsey ...	67	58	53	-	-	8.9
Pembroke ...	70	57	*	-	-	11.3
Holyhead ...	68	57	47	-	Tr	10.0
Chester (Sealand)	77	54	50	-	-	12.5
Manchester ...	78	49	46	-	-	5.9
Spurn Head ...	69	56	*	-	Tr	10.6
Catterick ...	75	54	50	-	-	9.2
Tynemouth ...	62	55	53	-	-	9.4
St. Abbs Head	69	57	*	-	-	*
Leuchars	75	53	43	-	-	11.8
Renfrew (Abbots I.)	73	52	46	-	-	9.8
Eskdalemuir ...	73	52	47	-	-	11.4
Point of Ayre ...	73	54	*	-	-	10.6
Tiree ...	64	50	45	-	-	9.4
Stornoway ...	62	49	*	Tr	0.4	3.0
Dalwhinnie ...	70	42	34	-	-	11.6
Aberdeen ...	71	52	48	-	-	10.9
Wick ...	61	53	*	-	Tr	*
Lerwick ...	59	51	*	-	-	7.3
Blacksod Point	65	48	*	-	0.1	*
Malin Head ...	62	49	*	-	-	2.9
Aldergrove ...	73	54	48	-	-	7.0
Birr Castle ...	68	50	41	-	-	3.9
Valentia Obsy. †	65	47	42	-	Tr	10.5
Roches Point	69	59	*	-	-	

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	czbc	beybzy	bczbm	75	59	52	-	-	8.9	•	•	5
Croydon ...	217	cmmbcz	bcbz	bzmcu	75	59	52	-	-	8.6	•	•	4
Greenwich (Royal Observatory)...	149	c	c	dbwfm	75	88	53	-	Tr	8.0	59	87	6
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•	•	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	76	60	56	-	-	7.3	65	89	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	77	58	52	-	-	7.0	61	94	•
Camden Square ...	110	bc	bc	•	77	59	55	-	-	*	•	91	•
Kensington ...	80	bc	bc	•	77	59	54	-	-	7.1	At 18h	92	•
Hampstead Observatory ...	450	0	bc	am	74	57	55	-	-	8.4	63	99	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
40.3 whole period			

Kew Observatory. Max.	Time.	Min.	Time.
0.2	6-7h 19th.	0.1	15-17h 18th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 18th August. Barom. mb.	Wind Direc.	Wind Force	Weather.	Temp. °F.	7h. G.M.T. 19th August. 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 ...	1013.4	NE	2	3	79	1012.9	NE	1	3	64	82	61	-	-
Brussels ...	1015.3	NE	3	b	77	1015.5	NNE	4	b	66	81	61	-	-
Berlin ...	1019.2	SE	2	c	66	1018.8	E	3	c	66	81	63	5	-
Zürich ...						1014.4	N	1	bcf	59		55		-
Rome ...	1012.7	SW	2	c	77						•	•	•	

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 31 m.

COLUMN 30.—Code for State of Sea.

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

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 20th August, 1939.
No. 28395

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	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)	1015.6	−12	NE'N	3	bc	75	65	7	7	–	–	4-6	4-6	2500
	Croydon	1015.6		NE'E	3	bc	78	68	6	1	–	–	4-6	4-6	4000
	S. Farnborough	1015.5	−14	NE'N	3	zo	74	65	6	1	–	–	1	1	2500
	Boscombe Down	1016.1	−10	E'N	2	zo	70	75	6	3	–	–	4-6	4-6	2500
	Calshot (Soton.)	1015.1	−6	N'E	2	zo	77	65	6	–	–	–	0	0	–
	Lympne	1014.9	−6	NNE	4	zo	74	65	6	–	–	–	0	0	–
	Manston	1015.5	−6	NE'N	4	zo	76	75	6	5	–	–	Tr	Tr	1500
2	Shoeburyness	1016.1	−6	NNE	4	b	73	75	7	–	–	–	0	0	–
	Felixstowe	1016.6	+2	E	4	b	72	75	6	–	–	–	0	0	–
	Gorleston	1017.5	−2	N'E	4	c	68	85	6	5	–	–	7-8	7-8	2500
	Mildenhall	1017.1	−10	NE	3	c	74	65	7	8	–	–	7-8	7-8	4000
	Cranwell	1018.4	−10	NE	3	b	71	65	7	–	–	–	0	0	–
3	Birmingham	1017.7	−6	NE	3	b	72	55	7	1	–	–	1	1	4000
	Upper Heyford	1017.4	−10	NE'E	2	zo	76	75	6	1	–	–	2-3	2-3	800
4	Ross-on-Wye	1016.8	−10	NE'E	3	zo	75	65	6	7	–	–	4-6	4-6	4000
5	Hartland Point	1016.1	−8	NE	1	b	66	85	7	–	–	–	0	0	–
	Bristol	1016.6	−14	NNE	3	zo	73	75	6	7	–	–	7-8	7-8	1500
	Portland Bill	1014.6	−4	NE	3	c	72	85	7	5	–	–	10	10	4000
	Plymouth	1015.3	−10	S'W	2	bc	72	75	7	J	–	–	4-6	4-6	4000
	The Lizard	1015.8	−2	ESE	1	bc	75	65	7	2	3	–	2-3	4-6	2500
	Scilly (St. Mary's)	1016.9	−6	NNE	3	zo	69	85	5	–	–	–	0	0	–
	Guernsey	1014.3	−6	NNE	3	c	66	85	6	5	–	–	7-8	7-8	450
6	Pembroke	1017.1	−8	NNW	3	zo	68	75	6	2	–	–	2-3	2-3	2500
7	Holyhead	1018.1	−2	NW'N	3	b	63	85	6	5	–	–	Tr	Tr	800
	Chester (Sealand)	1017.9	−12	SSE	1	zo	75	65	6	1	–	–	4-6	4-6	4000
8	Manchester	1017.8	−10	SW	1	zo	76	55	6	1	–	–	2-3	2-3	4000
10	Spurn Head	1019.0	−2	E'N	2	bc	67	75	7	5	4	–	2-3	4-6	1500
	Catterick	1018.8	−8	SSE	2	zo	69	75	6	1	–	–	1	1	2500
	Tynemouth	1019.5	−2	SE	3	of	58	97	3	5	–	–	10	10	1500
11	St. Abbs Head	1019.3	0	NW	3	F+	57	97	1	–	–	–	10	10	<150
	Leuchars	1020.1	−2	ENE	3	c	63	75	7	5	3	–	7-8	9+	1500
12	Renfrew (Abbotsl.)	1019.2	−6	NNW	1	zo	69	65	6	7	3	–	7-8	9+	4000
	Eskdalemuir	1018.5	−4	NE'E	2	c	65	75	7	5	7	–	7-8	9+	2500
	Point of Ayre	1018.9	−2	NW	2	c	62	92	7	5	–	–	9+	9+	2500
13A	Tiree	1020.3	0	N'W	2	bc	61	85	8	1	3	5	2-3	4-6	4000
13B	Stornoway	1021.9	0	SE	1	c	59	75	9	4	–	2	4-6	7-8	4000
15	Dalwhinnie	1019.7	−8	NNE	2	bc	67	65	8	4	8	1	2-3	4-6	4000
	Aberdeen	1020.8	+2	NE'E	2	c	61	85	6	5	3	–	7-8	9+	1500
	Wick	1021.4	+6	ENE	2	c	57	92	8	5	7	1	7-8	9+	1500
16	Lerwick	1021.3	−8	NE	2	c	56	85	8	8	7	–	4-6	7-8	800
17	Blacksod Point	1021.1	−4	N	2	c	60	65	9	5	–	–	7-8	7-8	2500
18	Malin Head	1020.3	−2	N	1	c	60	85	8	3	8	–	4-6	7-8	1500
	Aldergrove	1019.9	−2	W'N	1	c	68	65	8	1	–	7	1	10	4000
19	Birr Castle	1019.3	−6	NNW	1	c	69	65	7	9	–	–	9+	9+	2500
20	Valentia Obsy.†	1020.0	0	NNW	5	bc	63	85	8	7	4	–	2-3	2-3	1500
	Roches Point	1018.8	−4	N	2	bc	69	85	8	7	–	–	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 19th August. — 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)	°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)	Weather 7h.–13h. 19th (37)	Weather 13h.–18h. 19th (38)	Weather 18h. 19th to 1h. 20th (39)	Weather 1h.–7h. 20th (40)
1	London (Kew)	1013.7	−8	NE'E	3	bc	77	55	7	1	–	–	2-3	2-3	4000	0	*	omobc	bcby	byb	bbcmo
	Croydon	1014.1	−6	ENE	2	b	74	65	7	4	–	–	Tr	Tr	4000	0	*	ombczo	bczob	bwom	bmcmo
	S. Farnborough	1013.3	−10	NE	3	b	77	65	7	4	–	–	1	1	5700	0	*	omobcb	bbczoyb	bmoa	omo
	Boscombe Down	1013.8	−12	N'E	3	zo	71	85	6	–	–	–	0	0	–	0	*	ofcmotbcm	bczo	bm	bmcmo
	Calshot (Soton.)	1012.9	−6	NE'N	2	zo	77	65	6	–	–	–	0	0	–	0	2	omobcbm	bmo	bmo	bmobcmo
	Lympne	1013.6	−10	NNE	4	zo	68	85	6	–	–	–	0	0	–	0	§2	bcbmo	bzo	bmol	mmolw
	Manston	1013.5	−12	NNE	4	zo	66	85	6	–	–	–	0	0	–	0	*	bcmbmo	bmo	bmow	bmow
2	Shoeburyness	1014.2	−8	NE'N	4	b	70	75	7	–	–	–	0	0	–	0	*	cbcmob	b	bbwmo	bwcmo
	Felixstowe	1015.2	−6	NE	4	zo	71	75	6	–	–	–	0	0	–	0	1	bmo	bmo	bmow	bm
	Gorleston	1015.8	−6	NNE	3	bc	66	85	6	–	1	–	0	2-3	–	0	2	bcczo	cbczo	bcbzwoff	cfbczo
	Mildenhall	1015.6	−2	NE	4	b	70	75	7	–	–	–	0	0	–	0	*	offecmo	bcb	bocmoom	omoido
	Cranwell	1017.3	−2	ENE	2	zo	64	85	6	–	–	–	0	0	–	0	*	oF, b	bbmo	bommo	omo, f
3	Birmingham	1015.8	−12	NE	3	bc	71	65	8	8	7	–	4-6	4-6	2500	0	*	Fmb	bbc	bcm	mbccf
	Upper Heyford	1015.3	−10	NE	2	zo	71	85	6	5	–	–	7-8	7-8	2500	0	*	cmobczo	bczo	bcmoom	of
4	Ross-on-Wye	1014.8	−8	E'N	3	bc	73	75	7	8	–	8	4-6	4-6	2500	0	*	cmbzobcz	bc	bczbml	omom
5	Hartland Point	1014.7	−4	NNE	2	bc	65	85	7	1	–	–	4-6	4-6	4000	0	1	bczob	bbc	ctlrr	tlrrc
	Bristol	1014.7	−10	ENE	2	bc/pr	70	85	6	5	3	–	4-6	4-6	5700	0	*	bfeocmo	bccprtbc	bcbml	bcmow
	Portland Bill	1013.7	−16	NE	3	bc	72	85	7	5	–	–	4-6	4-6	4000	0	2	c	cbc	bcl	lc
	Plymouth	1014.6	−4	–	0	c/tlr	69	85	6	9	–	–	9+	9+	2500	0	1	bmobc	bcctlrmo	blctctlrm	ctlrobcmo
	The Lizard	1014.3	−6	N'W	3	c	71	75	7	8	6	–	7-8	7-8	2500	0	1	bbc	bcc	prtlr	tlrc
	Scilly (St. Mary's)	1015.6	−10	N	3	zo	64	92	6	–	–	–	0	0	–	0	2	bffzo	bzo	bzff	ffelzo
	Guernsey	1012.5	−12	N'E	3	zo	65	92	6	5	1	8	2-3	4-6	5700	1	3	czm	cmirz	ctlir	otlof
6	Pembroke	1015.8	−14	NNE	4	bc	67	85	6	2	7	–	2-3	2-3	2500	0	1	bbczo	bczo	bctlerrzo	tlrmorc
7	Holyhead	1016.5	−10	NNW	3	bc	61	92	6	5	3	–	2-3	2-3	5700	0	1	bmobcob	bmobc	rcmcb	boffo
	Chester (Sealand)	1016.9	−10	N'E	1	zo	74	75	6	7	–	–	7-8	7-8	4000	●	*	fewbmzobcyzo	bczybczo	mwfe	bcmofefe
8	Manchester	1016.5	−6	SE'E	2	zo	71	75	6	2	–	–	4-6	4-6	4000	0	*	bfz	bzoybczo	bczobmo	bmo
10	Spurn Head	1017.8	−6	E	3	o	61	92	6	5	–	–	10	10	450	0	2	fbc	bcco	ofo	o
	Catterick	1017.3	−10	–	0	zo	69	75	6	5	–	–	1	1	4000	0	*	bfebzo	bzo	bzocmw	ofdodom
	Tynemouth	1018.8	−4	NNE	1	bc	60	92	6	5	–	–	2-3	2-3	1500	0	0	off	offbc	bco	o
11	St. Abbs Head	1018.8	0	–	0	F+	56	97	1	–	–	–	10	10	<150	0	*	Ffe	FF	mymo	o
	Leuchars	1019.7	−2	NE	3	ido	57	92	5	–	2	–	10	10	220	0	*	cbccmc	ccmoido	cmiRizom	cmo
12	Renfrew (Abbotsl.)	1018.7	0	E	3	roro	60	92	5	5	2	–	9+	10	1500	1	*	bbccbco	czocmor	rorRrro	rcoicom
	Eskdalemuir	1017.1	−6	NE'E	2	bc	64	85	7	5	–	–	4-6	4-6	2500	0	*	cwc	cbc	bccido	idoc
	Point of Ayre	1017.1	−6	WNW	2	c	62	85	7	–	3	6	0	9+	–	0	1	c	c	co	f
13A	Tiree	1019.7	−2	N'W	3	bc	58	75	8	5	3	5	1	2-3	4000	0	2	bc	bc	bc	bcc
13B	Stornoway	1021.3	−2	NNE	4	bc	57	75	9	5	–	2	2-3	4-6	4000	0	2	bcc	bc	bcc	c
15	Dalwhinnie	1019.1	−2	NE	4	c	58	85	7	4	2	–	4-6	10	2500	0	*	cbc	bcc		cRr
	Aberdeen	1020.5	−2	NE'N	2	o	58	92	6	6	–	–	10	10	1500	0	1	cbcczo	cozo	bzoof	off
	Wick	1021.0	−4	NE	3	bc	55	92	8	5	4	6	2-3	4-6	1500	1	1	c	cbc	bcc	clroc
16	Lerwick	1021.4	0	ENE	3	c	55	85	8	5	5	–	4-6	7-8	1500	0	*	c	c	c	c
17	Blacksod Point	1020.3	−4	N	2	c	59	65	9	5	–	–	9	9	4000	0	2	c	bc	c	c
18	Malin Head	1019.7	−6	N'E	1	c	58	85	8	8	5	–	4-6	7-8	2500	0	3	cbcc	cbcc	c	cbcc
	Aldergrove	1018.1	−10	N'W	2	c	63	75	8	–	7	–	0	9+	–	1	*	cbcc	c	c	c
19	Birr Castle	1018.4	−12	NW	3	c	68	75	7	1	3	–	2-3	7-8	2500	0	*	bcc	c	c	c
20	Valentia Obsy.†	1019.5	−2	NNW	5	c	59	75	8	5	–	–	9	9	1500	0	2	bbc	bcc	cbc	bcc
	Roches Point	1017.4	−6	N	2	PR	66	92	6	9	r	–	7-8	9	800	1	1	cbc	bccPR	cPRc	crr

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.

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.*

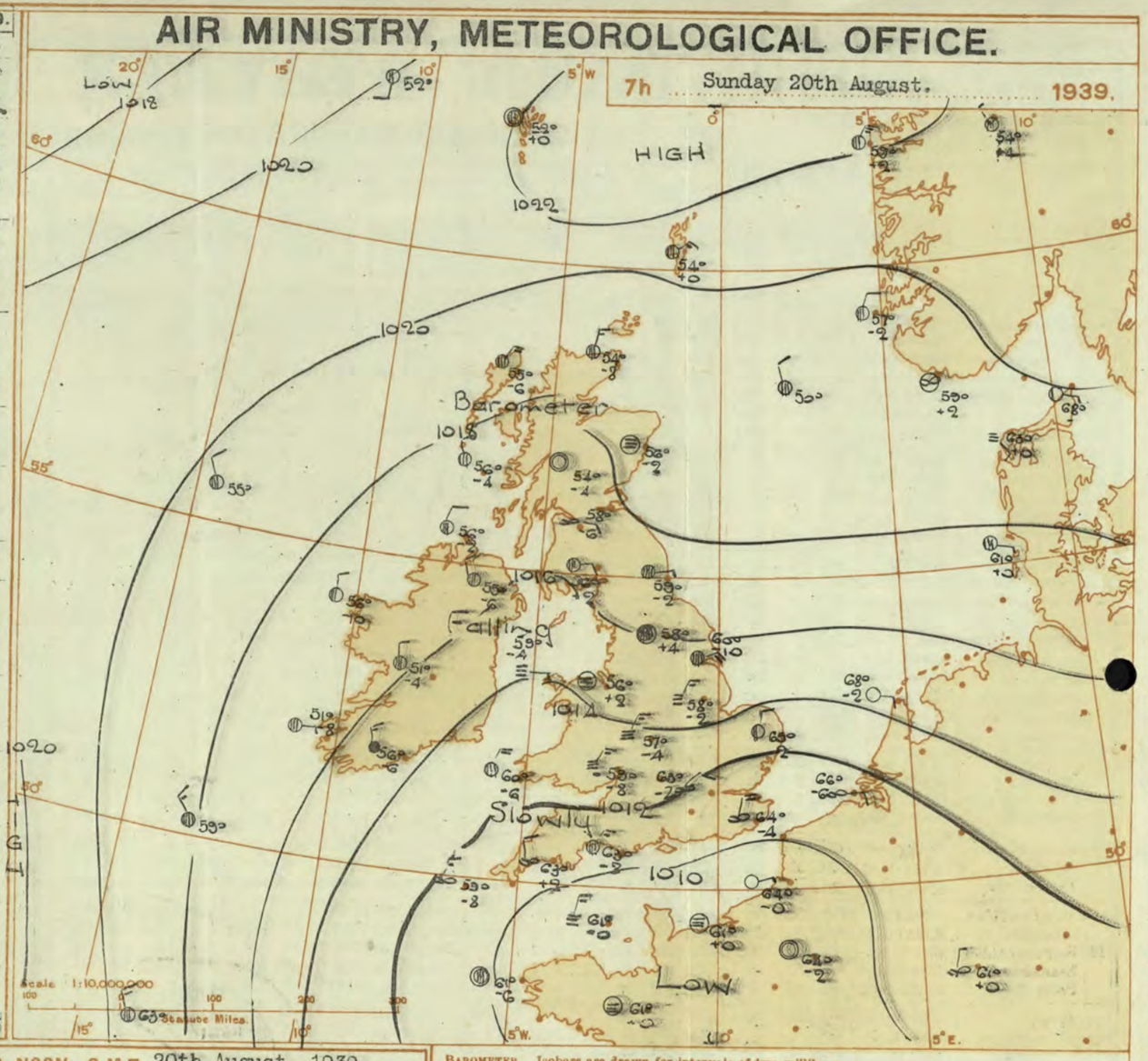
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 19th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 18th to 9h. 19th	Temperature. (°F) Max. 9h.—17h. 18th	Rainfall. (mm.) Night. 17h. 18th to 9h. 19th	Rainfall. (mm.) Day. 9h.—17h. 19th	Sunshine. (Hrs.) Sunrise to 17h. 19th	Sunshine. (Hrs.) Sunrise to Sunset 18th
1	Tunbridge W.	b	b	62	77	—	—	8.1	9.9
	Bournemouth	bcbc	b	58	78	—	—	6.6	10.5
	Ventnor ...	cbz	bz	59	80	—	—	8.4	12.0
	Southsea ...	b	b	61	82	—	—	8.5	12.2
	Bognor Regis	bcb	b	61	81	—	—	9.2	12.1
	Littlehampton	bcb	b	61	81	—	—	9.9	12.0
	Worthing ...	b	b	62	75	—	—	10.0	11.0
	Brighton ...	b	b	63	81	—	—	10.3	11.8
	Eastbourne† ...	b	bby	62	75	—	—	10.2	11.8
	Hastings† ...	b	b	62	73	—	—	10.9	11.7
	Folkestone ...	zb	b	63	76	—	—	10.1	11.9
	Dover ...	b	b	64	76	—	—	10.1	12.4
	Deal	b	b	62	73	—	—	9.7	12.1
	Ramsgate ..	zbc	bc	61	69	—	—	10.3	11.2
	Margate ...	bc	bc	64	67	—	—	9.1	11.5
2	Southend ...	mbcb	b	60	76	—	—	9.1	10.4
	Clacton-on-Sea	bcbm	bmz	61	74	—	—	9.8	9.7
	Dovercourt ...	b	b	61	75	—	—	9.9	10.3
	Lowestoft ...	bczbz	bzbcz	62	68	—	—	4.7	8.2
	Skegness ...	om.	om.	58	63	—	—	0.0	10.1
	Mablethorpe...	om.	oom.	61	63	—	—	0.0	7.8
	Cleethorpes ...	cbcb	bbcc	56	66	—	—	5.4	8.7
3	Leamington S.	ocbc	bcc	55	75	—	—	6.5	8.7
4	Cheltenham†	wcbc	cbcc	54	77	—	—	6.8	11.7
5	Bath	b	bcctr	58	76	—	4	6.5	7.9
	Weymouth ...	bbc	ctlrb	61	76	—	11	7.7	12.6
	Jersey ...	fg	cbcz	62	71	—	—	2.6	12.3
	Torquay ...	wbz.	bcctrp	58	76	—	1	8.2	13.0
	Falmouth ...	b	b	58	78	—	—	10.5	12.4
	Penzance ...	b	b	56	77	—	—	10.9	11.8
	St. Ives ...	b	b	56	69	—	—	9.8	11.7
	Bude... ...	zbc	bct	67	76	—	—	10.2	12.4
	Ilfracombe ...	bbcbz	bz	57	72	—	—	10.3	12.5
6	Aberystwyth	zbc	bbc	56	70	—	—	10.8	13.2
7	Llandudno ...	zb	bz	54	71	—	—	10.2	9.5
	Colwyn Bay...	cbcb	bcb	*	*	—	—	10.1	9.6
	Rhyl	bz.	bz.	52	77	—	—	9.6	*
8	Wallasey ...	bczb	bbc	58	76	—	—	9.3	10.8
	Southport ...	mbz	zcbc	53	76	—	—	7.4	9.7
	Blackpool ...	bbcm.	bcbmc	54	77	—	—	7.9	8.5
	Morecambe ...	bcb	bbcz	57	73	—	—	9.9	4.1
9	Ilkley... ...	obc	b	55	76	—	—	6.4	9.5
	Harrogate ...	o	ob	57	76	—	—	3.6	12.1
10	Berwick-on-T.	cmobc	cmo	56	60	—	—	2.5	11.8
11	Dunbar ...	cm	cm	54	59	—	—	1.7	11.3
12	Troon... ...	oco	ocopo	54	64	—	Tr.	0.7	12.3
	Douglas ...	bcz	bcz	56	60	—	—	5.4	9.6

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 20th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate northeast to east winds, fresh locally on coasts; fair or fine, but dull and local mist or fog in morning; local thunderstorms; warm and rather close.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light or moderate easterly winds; fair or fine, but fog in early morning; local thunderstorms or thunder showers; rather warm.
10 N.E. England 11 S.E. Scotland	Light northeasterly winds; mainly fair but fog in morning persisting locally on coasts; rather warm but cool in fog areas.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Light or moderate north to northeast or east winds. Cloudy; local rain or showers at first, brighter periods later; average temperature.
15 N. E. Scotland	As 10 - 11.
16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate north to northeast winds. Cloudy with local rain and thunder at first, brighter periods and local thunder showers later. Average temperature or rather warm.

GENERAL INFERENCE.

A complex depression over France is drifting slowly north while a trough of low pressure over Scotland and the Irish Sea is moving slowly west. There will be local rain in West Scotland and Ireland. Elsewhere it will be mainly fair or fine, but in the morning there will be fog in many places inland and much low cloud in eastern districts. Thunderstorms or thundery rains will occur locally.

FURTHER OUTLOOK.

Mainly fair apart from local thunderstorms.

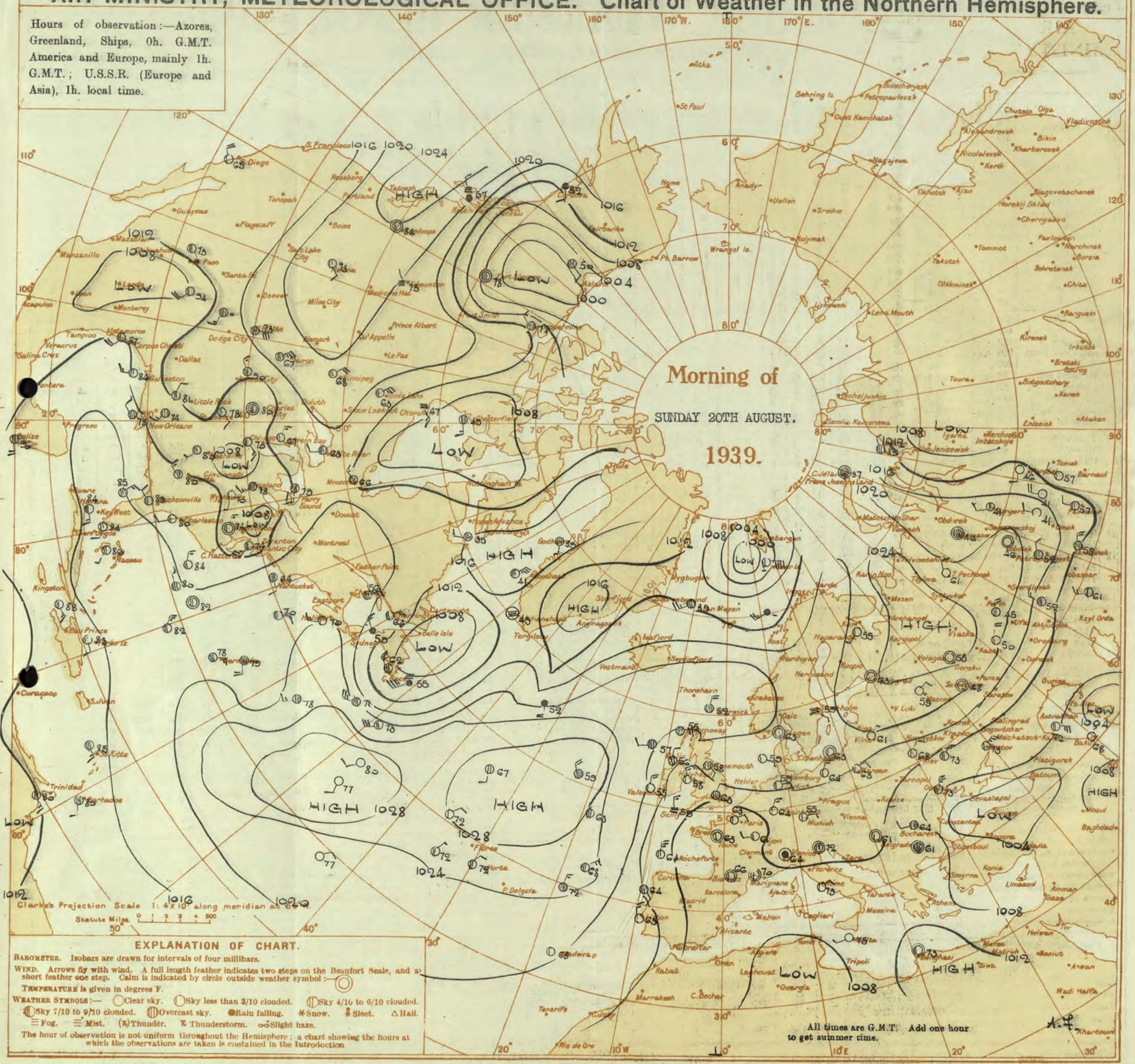
Forecasts issued at 0930 G.M.T.

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

Sunday 20th August, 1939.
No. 23895

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

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)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1014.2	0	NE'N	1	z	63	92	5	5	-	-	10	10	450
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1013.2	-10	NNE	3	z	60	97	5	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1012.2	-10	NNW	2	z	65	92	6	-	-	-	0	0	-
	Lympne	346	1012.9	-10	NNE	3	bl	63	92	5	-	-	-	0	0	-
	Manston	154	1012.0	-14	NE	4	b	66	85	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1014.3	-10	N'E	4	cf	63	97	2	8	-	-	9	9	2500
	Mildenhall	19	1015.0	-10	ENE	3	z	62	97	6	6	-	-	10	10	450
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1013.0	-14	NE	3	bc	63	85	8	4	-	-	2-3	2-3	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1011.4	-10	NE	3	cl	68	85	8	5	-	-	7-8	7-8	2500
	Plymouth	82	1012.7	-10	N	1	tlr	63	92	6	9	-	-	10	10	1500
	The Lizard	240	1012.9	-10	N	4	tlr	64	85	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	163	1014.1	-12	N'W	3	bf	59	97	2	-	-	-	0	0	-
	Guernsey	175	1011.6	-12	NNW	3	ot	62	97	5	5	-	-	10	10	1500
6	Pembroke	142	1014.0	-6	NEE	3	rr	62	92	6	8	-	-	7-8	7-8	2500
7	Holyhead	26	1015.3	-10	NNW	3	b	58	97	7	-	-	-	0	0	-
	Chester (Sealand)	16	1016.3	+2	-	0	bf+	56	97	3	-	-	-	0	0	-
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1017.1	-2	E'N	3	o	59	97	7	5	-	-	10	10	800
–	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1018.5	-2	SE	2	o	58	97	7	5	-	-	10	10	1500
11	St. Abbs Head	280	1018.4	-4	SE	2	o	57	92	7	5	-	-	10	10	1500
	Leuchars	36	1019.1	-2	-	0	z	56	97	5	-	2	-	10	10	220
12	Renfrew (Abbots I.)	19	1018.0	-4	E	2	rr	58	97	6	5	-	-	10	10	800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1016.3	-4	WNW	2	o	59	97	7	5	-	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1020.0	-4	ENE	3	c	55	92	8	5	-	-	7-8	7-8	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1020.6	-2	NNE	1	c	52	97	7	5	7	-	4-6	9	1500
16	Lerwick	156	1022.5	+4	NNE	4	c	52	97	8	8	7	-	7-8	9+	1500
17	Blacksod Point	18	1019.0	-8	-	0	c	57	75	8	5	-	-	10	10	800
18	Malin Head	84	1018.2	-6	N'E	2	c	56	85	7	8	3	-	7-8	9	2500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1018.9	-2	N	4	b	55	85	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1012.0	-4	NE'N	3	z	64	85	6	5	-	-	9+	9+	1500	0	*
Croydon	1012.3	-2	NE	2	z	63	92	6	5	-	-	7-8	9+	450	0	*
S. Farnborough	1011.6	-2	NNE	3	z	63	92	6	5	-	-	10	10	800	1	*
Boscombe Down	1011.7	-2	NE	3	z	61	92	5	5	-	-	10	10	800	1	*
Calshot (Sthmtn.)	1010.6	-2	N	3	z	64	92	6	2	8	1	4-6	7-8	4000	0	1
Lympne	1011.4	-4	NE'N	4	z	64	55	5	-	-	9	0	Tr	-	0	§1
Manston	1011.3	-2	NNE	2	z	65	92	6	-	3	1	0	Tr	-	0	*
Shoeburyness	1011.9	-4	NNE	3	bc	65	92	6	1	8	-	1	4-6	800	0	*
Felixstowe	1011.9	-2	NE'N	3	bif	64	92	6	5	-	1	Tr	1	450	0	2
Gorleston	1012.8	-2	N'E	2	bc	65	92	6	5	-	-	2-3	2-3	2500	0	2
Mildenhall	1013.3	-2	NE'N	3	9d	61	97	5	5	-	-	10	10	220	1	*
Cranwell	1015.1	-2	NE	3	of+	58	97	2	5	-	-	10	10	450	0	*
Birmingham	1014.1	-4	NE	3	f	57	97	2	-	-	-	10	10	<150	0	*
Upper Heyford	1013.8	-2	NE'E	3	f	59	97	3	-	-	-	10	10	<150	1	*
Ross-on-Wye	1013.4	-8	NE	3	m	59	97	4	5	-	-	10	10	450	0	*
Hartland Point	1011.5	+2	NE	3	c	61	97	7	8	4	-	4-6	7-8	1500	1	2
Bristol	1013.1	-4	NNE	2	z	60	97	5	5	-	-	10	10	450	0	*
Portland Bill	1010.3	-8	NE	3	c	63	85	7	5	-	-	7-8	7-8	2500	1	3
Plymouth	1011.5	+2	NNW	2	z	63	92	6	3	9	-	2-3	7-8	4000	1	1
The Lizard	1011.4	-10	N'W	3	c	61	97	7	8	6	-	7-8	9+	1500	1	2
Scilly (St. Mary's)	1012.0	-8	N'E	3	z	59	97	5	5	8	-	4-6	9+	1500	0	2
Guernsey	1009.5	0	N'E	3	f	61	97	3	-	-	-	10	10	<150	0	2
Pembroke	1012.5	-6	NE	4	c/r	60	92	6	8	7	-	4-6	9	2500	1	2
Holyhead	1013.9	-4	E	1	of	59	97	2	5	-	-	10	10	<150	1	1
Chester (Sealand)	1015.3	+2	-	0	of+	56	92	3	5	-	-	10	10	450	1	*
Manchester	1015.3	+2	NE	3	b	58	85	7	-	-	·	0	0	-	0	*
Spurn Head	1015.8	-10	NE'E	4	o	60	92	6	-	2	-	10	10	800	0	2
Catterick	1016.8	+4	-	0	9d	58	92	6	5	-	-	10	10	800	0	*
Tynemouth	1017.3	-2	ENE	1	o	59	92	6	5	-	-	10	10	1500	0	0
St. Abbs Head	1017.3	-6	SE	1	o	58	85	8	5	-	-	10	10	1500	0	1
Leuchars	1018.1	-2	NE	2	z	57	92	6	5	-	-	10	10	450	1	*
Renfrew (Abbots I.)	1016.8	-6	E	2	z	55	92	6	5	-	-	10	10	800	1	*
Eskdalemuir	1016.9	+2	ENE	2	c	56	92	6	5	-	-	10	10	800	1	*
Point of Ayre	1015.3	0	E'S	2	fs	60	97	5	5	-	-	10	10	800	0	1
Tiree	1016.7	-4	NNW	2	c	56	85	8	5	-	-	9	9	1500	0	2
Stornoway	1019.2	-6	NE	4	c	55	92	8	5	4	6	2-3	7-8	4000	0	2
Dalwhinnie	1018.4	-4	-	0	bc	54	92	7	5	2	-	4-6	4-6	1500	1	*
Aberdeen	1018.8	-2	-	0	f	56	97	3	-	-	-	10	10	<150	0	1
Wick	1018.9	-8	NNE	3	c	59	97	7	5	7	-	7-8	10	1500	1	1
Lerwick	1021.3	0	NE	3	c	54	92	8	8	7	-	7-8	10	1500	0	*
Blacksod Point	1017.4	-10	N	2	c	56	75	9	5	-	-	7-8	7-8	2500	0	2
Malin Head	1017.4	-2	NNE	2	c	56	85	8	3	8	-	4-6	7-8	1500	0	1
Aldergrove	1016.2	-6	NNW	2	c	55	92	9	5	7	-	7-8	9+	4000	1	*
Birr Castle	1016.4	-4	NNW	2	c	51	97	7	5	4	-	2-3	7-8	2500	0	*
Valentia Obsy. †	1016.6	-8	ENE	1	c	51	92	8	8	-	-	7-8	7-8	1500	0	2
Roches Point	1015.1	-6	N'W	3	rr	56	97	6	6	2	-	7-8	10	800	1	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)	Rainfall Night 18h–7h mm. (35)	Sunshine 19th. Hrs. (36)
London (Kew)	79	63	60	—	—	8.2
Croydon	79	63	58	—	—	9.0
S. Farnborough	79	62	55	—	-	7.1
Boscombe Down	75	59	57	—	-	5.2
Calshot (Sthmtn.)	81	63	61	—	-	9.8
Lympne	75	62	59	—	-	11.7
Manston	71	61	55	—	-	11.8
Shoeburyness	78	62	57	—	-	9.8
Felixstowe	73	61	60	—	-	12.0
Gorleston	68	62	60	—	-	10.6
Mildenhall	76	60	59	—	Tr	8.7
Cranwell	73	57	*	—	-	8.4
Birmingham	74	56	55	—	-	6.4
Upper Heyford	73	59	57	—	-	*
Ross-on-Wye	76	59	56	—	-	8.3
Hartland Point	67	60	59	—	25	10.9
Bristol	75	60	52	0.5	-	4.9
Portland Bill	72	60	*	—	-	*
Plymouth	77	61	57	Tr	4	9.7
The Lizard	76	58	*	—	4	11.7
Scilly (St. Mary's)	71	58	*	-	Tr	10.9
Guernsey	68	59	56	0.3	-	1.1
Pembroke	72	58	*	-	4	10.6
Holyhead	63	57	56	-	1	9.7
Chester (Sealand)	78	53	49	-	-	6.8
Manchester	79	56	52	-	-	7.8
Spurn Head	68	56	*	—	-	5.3
Catterick	71	54	50	—	0.1	6.2
Tynemouth	62	58	55	—	-	3.3
St. Abbs Head	57	55	*	Tr	-	*
Leuchars	65	55	55	Tr	3	0.4
Renfrew (Abbots I.)	70	57	56	3	12	0.8
Eskdalemuir	71	53	52	—	0.1	1.5
Point of Ayre	65	55	*	—	-	3.0
Tiree	61	55	51	—	-	10.2
Stornoway	61	54	*	—	-	12.6
Dalwhinnie	70	53	52	—	18	6.1
Aberdeen	63	55	53	—	-	2.7
Wick	57	55	*	—	Tr	*
Lerwick	59	51	*	-	-	0.8
Blacksod Point	65	48	*	—	-	*
Malin Head	62	54	*	—	-	4.0
Aldergrove	70	54	52	—	-	3.8
Birr Castle	70	50	39	—	-	9.5
Valentia Obsy. †	66	46	42	—	Tr	10.4
Roches Point	71	55	*	1	12	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	ombc	bcby	bybbcm	79	63	60	-	-	8.2	*	*	6
Croydon	217	ombcz	bczb	bwomom	79	63	56	-	-	9.0	*	*	6
Greenwich (Royal Observatory)	149	bcc	cbcb	bwc	79	62	59	-	-	7.8	56	83	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	8.9	*	*	*
Westminster (St. James' Park)	27	*	*	*	80	64	60	-	-	8.1	81	85	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	80	62	57	-	-	8.0	62	84	*
Camden Square	110	o	bc	*	80	63	61	-	-	*	*	83	*
Kensington	80	o	bc	*	81	63	59	-	-	8.5	At 18h 57	71	*
Hampstead Observatory	450	bc	bc	c	77	60	59	-	-	8.1	*	91	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
<0.3 whole period			

Kew Observatory Max.	Time.	Min.	Time.
0.1	7-8h 19th	<0.1	14-15h 19th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 19th August Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 20th August 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	1010.1	-	0	bc	81	1005.0	-	0	bc	64	82	59	-	-
Brussels	1011.7	E'N	2	b	77						86		-	
Berlin	1016.4	NE	3	b	78	1015.4	ENE	2	z	70	82	63	-	-
Zurich						1011.2	-	0	c	61		59		-
Rome	1010.6	E	2	bc	70								-	

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 9 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 21st August, 1939.
No. 28396

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	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)...	1010.2	–12	NE	3	c	77	55	7	8	–	–	7-8	7-8	2500
	Croydon	1010.0	–18	NE'E	3	bc	77	65	6	2	6	–	4-6	4-6	4000
	S. Farnborough	1009.7	–2	NE'E	3	z$_0$	77	65	6	1	–	–	1	1	4000
	Boscombe Down	1009.6	–14	NE'E	3	z$_0$	74	75	6	1	–	–	2-3	2-3	4000
	Calshot (Soton.)	1009.4	–8	ENE	3	z$_0$	77	65	6	2	8	–	Tr	Tr	4000
	Lympne ...	1010.2	–6	NE	4	b	76	65	7	–	–	–	0	0	–
	Manston ...	1010.0	–10	NE	4	z$_0$	71	75	6	–	–	–	0	0	–
2	Shoeburyness ...	1010.7	–10	NE'E	4	b	74	75	6	–	–	–	0	0	–
	Felixstowe ...	1011.1	–6	ENE	3	z$_0$	74	65	6	–	–	–	0	0	–
	Gorleston ...	1010.9	–8	NE'N	3	b	70	75	6	–	–	–	0	0	–
	Mildenhall ...	1011.1	–18	E'N	4	bc	79	55	7	2	–	–	4-6	4-6	2500
	Cranwell ...	1013.7	–10	NNE	3	z$_0$	65	85	6	5	1	–	9+	10	1500
3	Birmingham ...	1013.1	–6	NE	3	c	63	85	8	5	–	–	10	10	1500
	Upper Heyford	1012.0	–10	NE'N	3	z$_0$	68	85	6	5	3	–	4-6	7-8	800
4	Ross-on-Wye ...	1012.0	–10	NE	4	z$_0$	65	85	6	5	–	–	10	10	800
5	Hartland Point	1011.3	0	E	2	ir	63	92	7	5	2	–	7-8	9+	1500
	Bristol	1011.4	–10	ENE	3	z$_0$	69	75	6	5	3	–	4-6	7-8	1500
	Portland Bill ...	1010.1	–4	NNW	3	c	67	85	7	5	7	–	4-6	7-8	2500
	Plymouth ...	1010.0	–8	NE	2	tlr$_0$	69	85	8	9	7	–	4-6	10	4000
	The Lizard ...	1010.6	–4	–	0	c	68	85	7	8	2	–	7-8	9+	2500
	Scilly (St. Mary's)	1013.5	–4	N'W	3	bc	67	85	6	5	8	–	2-3	4-6	2500
	Guernsey ...	1008.4	–14	N	4	z$_0$	65	85	9	5	–	–	10	10	220
6	Pembroke ...	1011.8	+10	SE'S	3	cjp	66	85	6	9	2	–	4-6	9+	1500
7	Holyhead ...	1012.3	–10	NE'N	4	ct	65	85	6	8	2	–	9	10	2500
	Chester (Sealand)	1012.8	–22	E'N	2	z$_0$	72	65	6	8	–	–	7-8	7-8	2500
8	Manchester ...	1013.9	–10	NE	3	z$_0$	67	75	5	5	–	–	2-3	2-3	5700
10	Spurn Head ...	1013.5	–6	NNE	4	oF	63	92	0	5	–	–	10	10	<150
	Catterick ...	1015.9	–10	NE	2	z$_0$	63	85	6	5	–	–	10	10	800
	Tynemouth ...	1017.1	–2	NNE	2	c	60	92	8	5	2	–	7-8	9+	1500
11	St. Abbs Head...	1017.5	0	ESE	2	id$_0$	58	92	7	5	2	–	7-8	10	1500
	Leuchars ...	1017.9	+2	ENE	3	c	60	85	7	5	–	–	10	10	2500
12	Renfrew (AbbotsI.)	1016.5	–6	E'N	3	c	63	75	7	5	7	–	7-8	10	2500
	Eskdalemuir ...	1015.7	–6	ENE	2	c	62	85	7	5	–	–	10	10	1500
	Point of Ayre ...	1014.6	–8	E'N	3	c	65	85	7	–	3	–	0	7-8	–
13A	Tiree	1016.4	0	NNW	1	c	58	85	8	5	–	–	9+	9+	2500
13B	Stornoway ...	1018.4	–8	E	3	c	61	85	8	5	5	8	1	9+	4000
15	Dalwhinnie ...	1017.8	–4	S	3	c	57	75	7	4	1	–	2-3	10	2500
	Aberdeen ...	1018.5	–2	ENE	1	c	60	85	6	9	2	–	9+	10	1500
	Wick	1019.0	–2	E	2	F	55	97	1	–	–	–	10	10	<150
16	Lerwick... ...	1021.0	0	ENE	5	id$_0$	55	92	7	5	2	–	7-8	10	1500
17	Blacksod Point...	1017.0	–10	NE	3	bc	62	75	9	2	3	–	2-3	4-6	4000
18	Malin Head ...	1016.9	–6	N	2	c	58	75	8	4	–	7	2-3	9	4000
	Aldergrove ...	1015.4	–6	N'W	3	c	60	85	7	5	2	–	9	10	2500
19	Birr Castle ...	1015.2	–6	NNW	2	c	65	65	8	8	7	–	4-6	9	1500
20	Valentia Obsy.†	1015.6	–6	N	4	bc	64	65	9	7	–	–	2-3	2-3	4000
	Roches Point ...	1013.6	–10	N	3	bc	66	85	9	7	–	–	4-6	4-6	2500

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

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)
London (Kew)	1008.6	–6	NE'N	3	b	74	65	7	2	–	–	1	1	2500
Croydon	1008.8	–2	NE'E	2	bc	74	65	6	2	6	–	2-3	4-6	4000
S. Farnborough	1008.0	+2	NE'N	3	b	74	69	7	4	–	–	Tr	Tr	5700
Boscombe Down	1007.7	–10	ENE	3	tlr$_0$	71	65	6	8	–	3	4-6	7-8	2500
Calshot (Soton.)	1007.3	–2	SE	2	z$_0$	69	85	6	9	4	4	2-3	4-6	2500
Lympne	1008.9	–2	NE	3	bc	71	75	6	3	6	–	2-3	4-6	4000
Manston	1008.4	0	SE	2	z$_0$	68	85	6	8	3	–	4-6	4-6	2500
Shoeburyness	1009.1	–8	NE	4	bc	69	85	6	–	8	–	0	4-6	–
Felixstowe	1009.2	–10	NE'E	4	b	71	75	7	2	4	–	Tr	Tr	4000
Gorleston	1010.1	–8	NE'N	3	b	69	75	6	–	–	–	0	0	–
Mildenhall	1009.7	–2	E'N	3	b	74	55	7	–	–	–	0	0	–
Cranwell	1011.9	–6	NNE	2	z$_0$	65	85	6	–	4	9	0	Tr	–
Birmingham	1010.8	–6	NE	3	c	68	75	7	5	5	6	4-6	7-8	2500
Upper Heyford	1009.9	–6	NE	3	c	66	75	7	8	3	1	4-6	9	4000
Ross-on-Wye	1010.2	–6	N'E	2	z$_0$	69	85	6	5	–	–	10	10	1500
Hartland Point	1009.8	–2	NE	3	c/r	61	97	7	5	2	–	7-8	10	800
Bristol	1009.6	–8	N'W	3	z$_0$	69	85	6	5	–	–	9+	9+	2500
Portland Bill	1008.0	–12	N	3	c	72	85	7	5	–	–	10	10	2500
Plymouth	1009.6	–2	–	0	rr	63	92	6	6	2	–	4-6	10	1500
The Lizard	1009.6	–4	NE'N	2	c	67	85	7	8	2	–	7-8	10	2500
Scilly (St. Mary's)	1010.9	–2	N	3	c	62	97	6	5	2	–	4-6	10	2500
Guernsey	1007.5	–4	N'W	4	z$_0$	64	85	6	–	3	–	0	4-6	–
Pembroke	1011.0	–10	ENE	2	c	64	92	6	8	2	–	7-8	10	1500
Holyhead	1012.3	–12	N'E	3	c	61	92	6	5	–	–	9+	9+	4000
Chester (Sealand)	1012.0	–2	NE	3	z$_0$	70	75	6	5	–	–	2-3	2-3	2500
Manchester	1012.3	–6	ENE	4	b	67	75	7	1	–	–	Tr	Tr	4000
Spurn Head	1012.3	–6	NE'N	3	bc	62	97	6	5	1	–	2-3	4-6	800
Catterick	1014.6	–6	NNE	3	z$_0$	61	92	5	5	–	–	10	10	800
Tynemouth	1015.4	–10	N	3	o	60	92	6	5	–	–	10	10	1500
St. Abbs Head	1016.6	–4	E	1	c	59	97	6	5	2	–	9	10	1500
Leuchars	1016.9	–4	NNE	3	c	59	85	7	5	–	–	10	10	2500
Renfrew (AbbotsI.)	1015.9	–4	ENE	3	c	61	85	7	5	–	–	10	10	2500
Eskdalemuir	1015.0	–2	ENE	3	bc	61	75	7	5	–	–	4-6	4-6	2500
Point of Ayre	1013.6	–4	NW'N	1	bc	62	92	7	5	–	–	4-6	4-6	2500
Tiree	1015.9	0	–	0	id$_0$	55	97	6	5	–	–	9+	9+	1500
Stornoway	1017.7	–2	NE	3	c	58	92	7	5	7	–	7-8	9+	2500
Dalwhinnie	1017.7	–4	S	2	c	56	85	7	5	–	–	10	10	2500
Aberdeen	1017.8	–6	–	0	c	59	85	7	5	–	–	10	10	2500
Wick	1018.1	–6	ESE	3	c	56	97	6	5	7	–	7-8	9+	1500
Lerwick	1020.9	0	E	5	c/d	55	92	7	5	2	–	7-8	9+	800
Blacksod Point	1016.2	0	NE	3	bc	59	75	9	–	3	–	0	4-6	–
Malin Head	1016.5	–2	N	1	c	57	85	8	5	7	–	4-6	9+	4000
Aldergrove	1015.0	0	NNW	2	ir	56	97	6	–	2	–	10	10	800
Birr Castle	1014.3	–6	NNW	2	c	65	65	7	4	–	–	7-8	7-8	1500
Valentia Obsy.†	1015.3	0	NNW	4	b	60	65	9	1	–	–	Tr	Tr	4000
Roches Point	1012.9	–4	N	3	c	65	75	9	8	1	–	7-8	9+	1500

PAST 24 HOURS.

Stations	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 20th (37)	Weather 13h.–18h. 20th (38)	Weather 18h. 20th to 1h. 21st (39)	Weather 1h.–7h. 21st (40)
London (Kew)	0	*	am$_0$bcy	cybcb	b,ctlPR	com$_0$
Croydon	0	*	vm$_0$bcz$_0$	bbcz$_0$	tlr$_0$,r$_0$	bcbm$_0$
S. Farnborough	0	*	om$_0$bz$_0$	bz$_0$cyb	b,clm$_0$	cwFc
Boscombe Down	1	*	cm$_0$bcm$_0$	bcz$_0$	bcz,tlm$_0$	bclm,cFwm
Calshot (Soton.)	0	2	bcbm$_0$	bcm$_0$	ctlm$_0$	cm$_0$
Lympne	0	§1	bbcbz$_0$	bbcz$_0$	ctlrh	bcm$_0$lf
Manston	0	*	bm$_0$	bz$_0$bcm$_0$	ctlr$_0$	bcm$_0$
Shoeburyness	0	*	bcm$_0$bz$_0$	bbcz$_0$	bcz$_0$l	tlPcm$_0$
Felixstowe	0	2	bm$_0$	bm$_0$	bmd	bm$_0$w
Gorleston	0	2	bcbz$_0$	bz$_0$	bz$_0$b	bcb
Mildenhall	0	*	ombcm$_0$b	bcyby	bclm$_0$	bcffe
Cranwell	0	*	ofmcm$_0$	cbcbm$_0$	bm$_0$om	TLRomf
Birmingham	0	*	fmoc	cbc	bctlrc	c
Upper Heyford	0	*	ofmcm$_0$	cz$_0$c	cbbcl	cpr$_0$lc
Ross-on-Wye	0	*	d$_0$mom	cz$_0$	bcm$_0$clmtl	LTRom
Hartland Point	1	2	crir$_0$	cirrr	crroc	cir$_0$
Bristol	0	*	cd$_0$cm$_0$	cbccm$_0$	cTLR	cm$_0$l
Portland Bill	1	3	cpr	c	c	ctl
Plymouth	1	1	tLRict	tlr$_0$irm$_0$t	rrtlr$_0$rl	bclom$_0$bc
The Lizard	1	1	cpr$_0$c	c	c	cbcw
Scilly (St. Mary's)	0	2	cz$_0$bc	bcc	oz$_0$bcl	bcc
Guernsey	0	2	ofz	ozcz	cliR	clcz
Pembroke	1	1	ctm$_0$	tlrrfirm$_0$c	lr$_0$c	cir$_0$f
Holyhead	1	2	ffbtc	TLRRc	cm$_0$tl	bm$_0$pGc
Chester (Sealand)	0	*	ofe,cm$_0$z	cz$_0$	z$_0$bbcm$_0$w	om$_0$wGcm
Manchester	0	*	bcz$_0$	bcz$_0$b	b,bc	bccTLRtlr
Spurn Head	0	2	of	fdbc	cbl	clw
Catterick	0	*	cm$_0$	cm$_0$	m$_0$id$_0$of	oftlR
Tynemouth	0	1	oc	co	off	offirtl
St. Abbs Head	0	2	cid$_0$	m$_0$c	ddFf	ddFf
Leuchars	0	*	cm$_0$c	c	c	cod$_0$d$_0$m
Renfrew (AbbotsI.)	0	*	cm$_0$c	cm$_0$c	ccm$_0$	cm$_0$wdd$_0$
Eskdalemuir	0	*	cm$_0$c	cbc	bcc	cctliR
Point of Ayre	0	1	fcz$_0$	cir$_0$t	bcbbc	bcc
Tiree	1	1	c	cd$_0$m$_0$	cd$_0$iR	odrdrc
Stornoway	0	3	c	c	cpr$_0$	
Dalwhinnie	0	*	cir	c		cir
Aberdeen	0	1	ofcz$_0$	cz$_0$c	coz$_0$	ofefed$_0$
Wick	1	1	m$_0$Ff	Fcm$_0$	cm$_0$	m$_0$cm$_0$
Lerwick	1	*	cid$_0$	cqid$_0$	cbc	bcc
Blacksod Point	0	3	bc	bc	bc	bc
Malin Head	0	1	cbcc	cpr$_0$c	cpr$_0$	c
Aldergrove	1	*	c	d$_0$dtlRr	rRr$_0$r$_0$m$_0$	ccr$_0$m$_0$c
Birr Castle	0	*	c	c	c	c
Valentia Obsy.†	0	2	cbc	bcb	bbw	bwb
Roches Point	1	1	crrbc	bcc	cbcw	bcw

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.

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.*

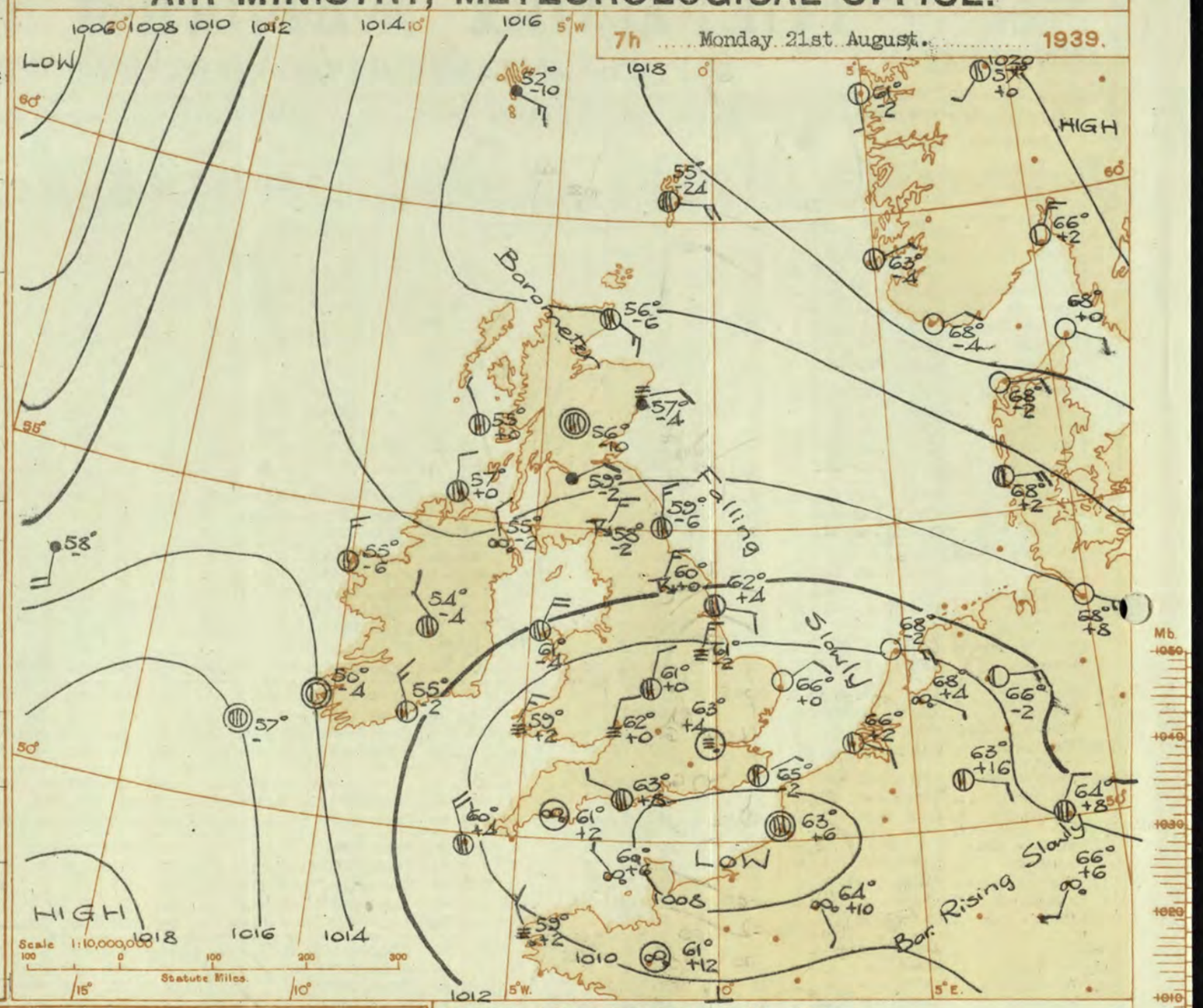
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 20th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 19th. to 9h. 20th.	Temperature. (°F) Max. 9h.—17h. 20th.	Rainfall. (mm.) Night. 17h. 19th. to 9h. 20th.	Rainfall. (mm.) Day. 9h.—17h. 20th.	Sunshine. (Hrs.) Sunrise to 17h. 20th.	Sunshine. (Hrs.) Sunrise to Sunset. 19th.
1	Tunbridge W.	b	b	62	*	—	—	8.3	9.4
	Bournemouth	ocbc	bctlr	61	78	Tr.	1	4.5	7.3
	Ventnor ...	bz	bz	63	78	—	—	10.4	9.8
	Southsea ...	b	bt	64	82	—	—	10.1	9.9
	Bognor Regis	b	b	63	80	—	—	10.6	10.9
	Littlehampton	bc	bc	62	81	—	—	10.0	11.6
	Worthing ...	b	bbcb	63	80	—	—	10.2	11.4
	Brighton ...	b	b	64	83	—	—	10.4	12.3
	Eastbourne† ...	b	b	63	76	—	—	10.6	11.4
	Hastings† ...								
	Folkestone ...	zb	bbcz	63	78	—	—	10.4	10.9
	Dover ...	b	bbc	64	78	—	—	10.7	11.0
	Deal	b	b	62	74	—	—	10.8	10.7
	Ramsgate ...	zb	b	65	71	—	—	10.7	11.5
	Margate ...	bc	bc	64	69	—	—	10.6	10.3
2	Southend ...	b	b	62	78	—	—	9.3	10.5
	Clacton-on-Sea	bz	bz	61	75	—	—	10.5	11.4
	Dovercourt ...	b	b	62	75	—	—	10.9	11.3
	Lowestoft ...	bzbcb	b	61	76	—	—	11.0	6.2
	Skegness ...	moc	cb	59	69	—	—	3.5	0.0
	Mablethorpe...	omoz.	bcz.b	59	65	—	—	0.6	0.0
	Cleethorpes ...	oofz	oof	59	62	—	—	0.0	5.4
3	Leamington S.	o	oc	59	74	—	—	3.2	6.5
4	Cheltenham†	oc	cbcc	59	75	—	—	3.3	6.8
5	Bath	cbc	bbcc	61	74	—	—	3.0	6.9
	Weymouth ...	tlpc	b	61	74	1	Tr.	4.8	8.9
	Jersey ...	cbc	czbc	62	72	—	—	5.8	4.1
	Torquay ...	ompRtlc	bcoPRtl	62	69	6	6	2.4	8.5
	Falmouth ...	c	c	60	76	4	—	0.3	11.8
	Penzance ...								
	St. Ives ...	c	c	54	65	—	—	3.9	11.1
	Bude... ...	c	tlrr	60	76	3	6	3.4	10.8
	Ilfracombe ...	tlro	tlrvr	62	65	5	15	0.5	11.0
6	Aberystwyth	tlrbc	ctlr	56	67	3	2	1.8	12.3
7	Llandudno ...	bbc	ctc	57	69	0.1	—	4.2	11.0
	Colwyn Bay...	cbc	cbcc	55	69	1	—	4.5	11.4
	Rhyl	bbcz.	bccz.	55	74	2	—	5.8	10.9
8	Wallasey ...	bcb	bbc	56	73	—	—	9.7	9.7
	Southport ...	b	bbcb	55	74	—	—	10.4	7.4
	Blackpool ...	bm.b	bbc	54	70	—	—	10.0	8.1
	Morecambe ...	bcb	bbc	59	72	—	—	9.3	9.9
9	Ilkley... ...	o	o	56	65	—	—	2.2	7.5
	Harrogate ...	o	oc	56	64	—	—	0.0	4.9
10	Berwick-on-T.	o	om.c	56	62	—	—	0.0	2.5
11	Dunbar ...	cm.	cmoz	55	60	—	Tr.	0.0	1.7
12	Troon... ...	oc	oco	57	65	22	—	0.6	0.7
	Douglas ...	cwz	ctlpr	55	69	—	2	3.7	5.6

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

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. 21st August 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light northeast to north winds; fair, a few bright periods; local thunderstorms; mist or fog at night and early morning; warm.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light northerly to variable winds; mainly fair apart from local thunderstorms; mist or fog at night and early morning; warm.
10 N.E. England 11 S.E. Scotland	Light easterly winds; cloudy; mist or fog in morning persisting in places with drizzle; local thunderstorms; rather warm but cool in fog areas.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Light northerly winds, backing to southwest or south; mainly fair though rain locally early; chance of more continuous rain later; average temperature.
15 N. E. Scotland 16 Orkney and Shetland	Light southeast to south winds; mainly fair; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 12 - 14.
19 S. E. Ireland 20 S. W. Ireland	Light northerly winds, backing to southwest or south and freshening; fair at first, becoming cloudy with rain; average temperature.

GENERAL INFERENCE.

A depression over North France is drifting slowly north or northeast while a depression to the west of Ireland is moving east. Weather will become mainly fair and warm in most districts apart from extensive fog inland in early morning, persisting locally with drizzle in Eastern coastal areas. Thundery conditions will persist in England. There will be more continuous rain later in Western Ireland.

FURTHER OUTLOOK.

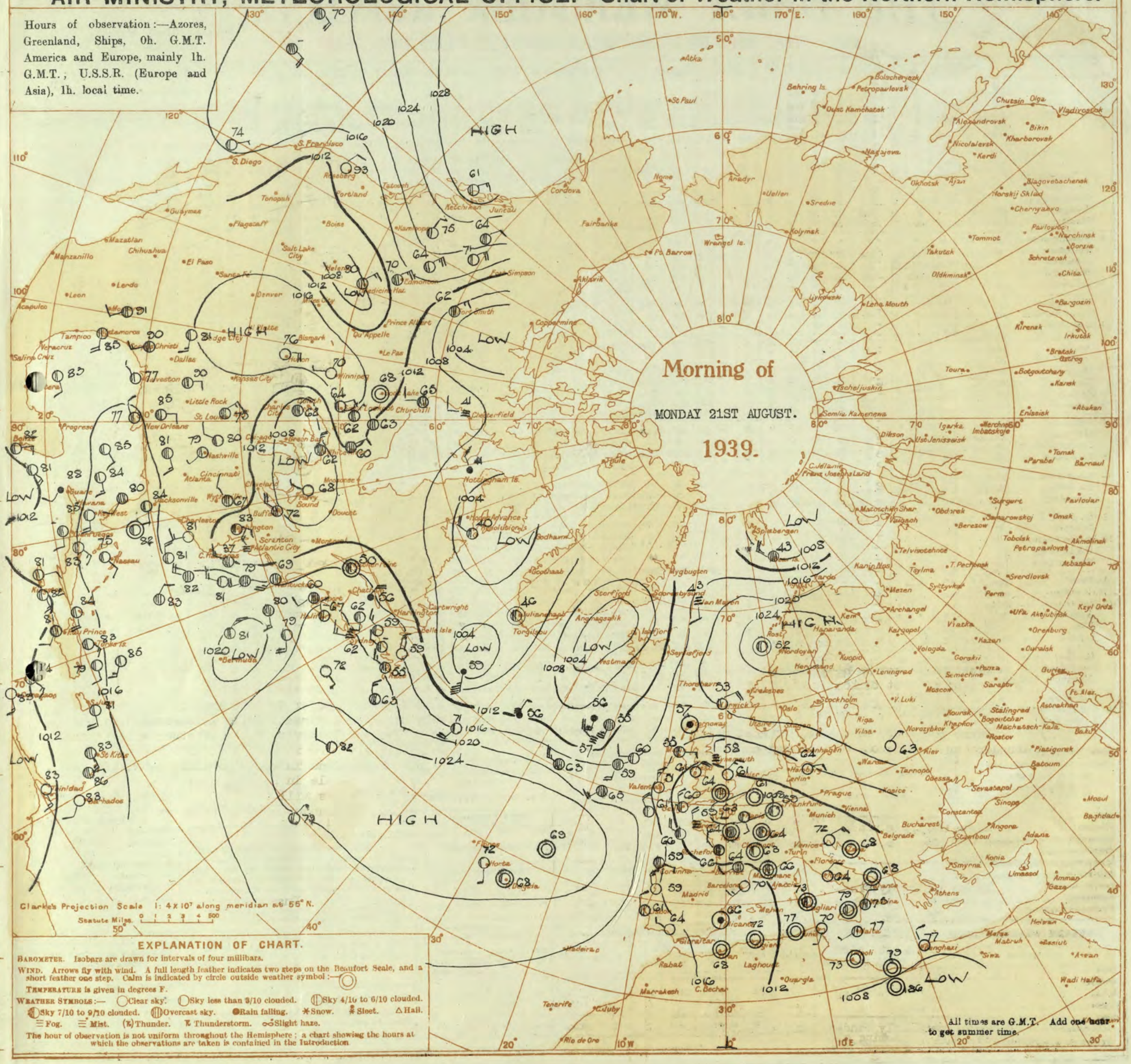
Unsettled.

Forecasts issued at 0930 G.M.T.

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

H.M.S.O. Press, Cornwall House, S.E.1. G.966/37.3C. No. 8109 D.4676. Gp. 346 30070 6/39

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 21st August, 1939.
No. 28396

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

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	1008.5	-4	–	0	c/r	64	97	5	3	6	–	4-6	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1008.3	-4	N'E	2	bcl	60	97	6	4	–	3	2-3	4-6	5700
	Calshot (Sthmtn.)	8	1008.0	+12	NNE	1	bcl	64	85	6	3	3	–	2-3	2-3	2500
	Lympne ...	346	1009.0	-4	N	2	bcl	62	92	7	3	6	–	2-3	2-3	4000
	Manston ...	154	1007.7	-8	NN	2	b/r	63	92	6	8	–	–	1	1	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1008.4	-6	ESE	3	2o	67	65	6	–	–	–	0	0	–
	Gorleston ...	5	1009.2	-4	NE'E	3	b	66	85	7	–	–	–	0	0	–
	Mildenhall ...	19	1009.0	-8	NNW	2	bcl	60	97	5	–	3	–	0	2-3	–
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1008.7	-14	NNE	2	c	61	97	6	6	2	–	7-8	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1007.9	+12	NE	2	cl	64	85	7	5	–	–	7-8	7-8	1500
	Plymouth ...	82	1008.5	-4	–	0	bcl	61	97	6	5	–	–	4-6	4-6	4000
	The Lizard ...	240	1009.5	-4	NNW	3	c	61	97	7	8	2	–	7-8	9+	2500
	Scilly (St. Mary's)	163	1010.6	-4	NW	3	bcl	60	97	6	8	–	–	2-3	2-3	2500
	Guernsey ...	175	1008.1	-4	NW	4	4ml	60	97	4	5	–	–	7-8	7-8	450
6	Pembroke ...	142	1010.0	-4	NE'N	4	c	59	97	6	8	2	–	9	10	1500
7	Holyhead ...	26	1011.0	-6	NE'N	4	b	61	92	6	–	–	–	0	0	–
	Chester (Sealand)	16	1011.4	-8	NNW	1	2o	59	92	6	5	–	–	4-6	4-6	1500
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1011.7	-6	NE'E	3	b	61	97	7	–	–	–	0	0	–
	Catterick ...	175	1013.5	-10	N'E	2	of	60	97	3	5	–	–	10	10	<150
	Tynemouth ...	108	1014.7	-8	N	2	of+	56	97	3	5	–	–	10	10	1500
11	St. Abbs Head	280	1015.5	-6	NE	3	F+	58	97	1	–	–	–	10	10	<150
	Leuchars ...	36														
12	Renfrew (Abbots I.)	19														
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1013.2	-2	EN	3	bc	61	97	7	5	–	–	2-3	2-3	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1016.6	-4	–	0	pr	57	92	7	5	7	–	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1017.4	-6	SE	4	c	54	97	6	5	2	–	9	10	1500
16	Lerwick ...	156	1020.7	-2	NE	4	bc	53	92	5	5	–	–	4-6	4-6	2500
17	Blacksod Point	18	1016.0	-2	–	0	b	51	92	8	–	–	–	0	0	–
18	Malin Head ...	84	1015.5	0	E	1	c/pr	55	85	7	5	–	–	9+	9+	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1015.2	-2	N	3	b	59	92	8	–	–	–	0	0	–
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1008.7	+8	NNE	2	2o	63	92	5	5	–	–	10	10	800	1	*
Croydon ...	1008.6	+4	–	0	m	63	97	4	5	–	–	10	10	450	1	*
S. Farnborough	1008.2	+4	NE'E	2	2o	62	92	6	–	3	–	0	9+	–	0	*
Boscombe Down	1008.5	+6	NNE	2	2o	60	97	5	4	8	–	7-8	9+	5700	0	*
Calshot (Sthmtn.)	1007.7	+2	NW	2	2o	64	92	5	8	7	9	Tr	9	4000	0	1
Lympne ...	1008.7	-2	ENE	1	bc	65	85	7	1	4	–	Tr	4-6	4000	1	§0
Manston ...	1007.7	+2	–	0	c	65	92	6	2	7	6	2-3	7-8	2500	1	*
Shoeburyness ...	1008.6	+2	NNW	1	c	64	92	5	2	7	–	2-3	9	4000	1	*
Felixstowe ...	1008.1	0	N	2	2o	64	92	6	–	4	4	0	4-6	–	0	1
Gorleston ...	1008.7	0	ENE	2	b	66	85	6	–	1	–	0	Tr	–	0	2
Mildenhall ...	1008.4	0	–	0	bcf	56	97	2	–	3	4	0	2-3	–	1	*
Cranwell ...	1009.8	-2	NE	3	of	61	97	2	5	–	–	10	10	450	1	*
Birmingham ...	1009.4	0	NNE	2	c	61	85	6	5	9	–	7-8	9+	2500	1	*
Upper Heyford	1009.3	+14	NE'N	2	2o	62	92	6	5	–	–	9+	9+	450	1	*
Ross-on-Wye	1009.2	0	NNE	2	m	62	97	4	5	–	–	10	10	800	1	*
Hartland Point	1008.6	+4	NE	2	c	61	97	7	8	4	–	4-6	7-8	1500	1	2
Bristol ...	1009.2	+2	NNE	2	2o	62	92	6	5	–	–	10	10	450	1	*
Portland Bill ...	1008.2	+8	NW	1	c	63	85	7	5	–	–	10	10	1500	1	2
Plymouth ...	1008.7	+2	–	0	2o	61	92	5	–	9	–	0	4-6	–	1	0
The Lizard ...	1009.1	-4	NW	4	bc	61	97	6	8	7	–	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1010.6	+4	NNW	4	c	60	97	6	8	2	–	4-6	10	1500	0	2
Guernsey ...	1008.7	+6	NW	1	2o	60	97	5	5	–	–	10	10	1500	1	2
Pembroke ...	1009.7	+2	NE	3	f	59	97	2	–	–	–	10	10	<150	1	1
Holyhead ...	1010.2	-4	NE	4	c	61	92	6	5	–	–	9+	9+	450	1	2
Chester (Sealand)	1009.8	-10	WNW	2	m/r	61	92	4	5	7	–	7-8	9+	1500	1	*
Manchester ...	1010.3	-12	NE'N	3	c/tlr	62	92	6	8	3	–	4-6	7-8	4000	1	*
Spurn Head ...	1010.9	+4	SE	2	c	62	97	6	5	3	–	2-3	7-8	800	0	1
Catterick ...	1012.8	0	NNE	3	TLR	60	97	3	6	–	–	10	10	450	1	*
Tynemouth ...	1013.0	-6	N	3	o/r	59	97	5	–	2	–	10	10	1500	1	1
St. Abbs Head	1014.3	0	NE	1	F	58	97	1	–	–	–	10	10	<150	1	*
Leuchars ...	1015.0	-4	NE	2	d₀d₀	58	97	5	–	2	–	10	10	<150	1	*
Renfrew (Abbots I.)	1014.3	-2	ENE	2	d₀d₀	59	97	4	5	–	–	10	10	450	1	*
Eskdalemuir ...	1013.3	-2	NNE	3	tlr	58	97	6	9	–	–	10	10	220	1	*
Point of Ayre...	1011.7	-2	ES	4	c	61	92	7	5	–	–	10	10	2500	0	3
Tiree	1014.7	0	NNW	1	c	55	92	8	5	–	–	9	9	1500	1	2
Stornoway ...																
Dalwhinnie ...	1015.6	-10	–	0	c	56	92	6	5	2	–	4-6	10	1500	1	*
Aberdeen ...	1015.8	-4	EN	2	df	57	97	3	–	–	–	10	10	<150	1	1
Wick ...	1015.7	-6	SE	3	c	56	92	6	5	7	–	7-8	9+	1500	0	1
Lerwick ...	1017.8	-24	E	4	c	55	85	8	5	1	–	4-6	7-8	1500	0	*
Blacksod Point	1015.1	-6	N	3	bc	55	85	8	2	–	4	2-3	4-6	2500	0	2
Malin Head ...	1015.1	0	N	2	c	57	75	8	8	–	–	9	9	5700	0	1
Aldergrove ...	1013.8	-2	NW	2	2o	55	85	6	5	–	–	10	10	1500	1	*
Birr Castle ...	1013.5	-4	NNW	2	c	54	92	8	5	–	–	10	10	1500	0	*
Valentia Obsy. †	1014.3	-4	–	0	b	56	92	8	1	–	1	1	1	1500	0	1
Roches Point	1012.8	-2	NNW	3	bc	55	97	8	–	4	5	0	2-3	–	1	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 24 Hrs. (36)
London (Kew)	80	62	56	–	3	8.5
Croydon ...	79	60	60	–	2	8.0
S. Farnborough	80	57	52	–	–	6.7
Boscombe Down	75	58	57	Tr	–	6.8
Calshot (Sthmtn.)	75	63	61	–	–	9.2
Lympne ...	77	61	58	–	4	12.0
Manston ...	73	59	53	–	7	11.6
Shoeburyness ...	77	61	54	–	1	10.3
Felixstowe ...	75	61	59	–	–	12.2
Gorleston ...	71	65	61	–	–	12.2
Mildenhall ...	80	57	52	–	Tr	9.5
Cranwell ...	76	53	A	–	11	5.0
Birmingham ...	69	60	58	–	1	2.5
Upper Heyford	73	59	53	–	0.1	*
Ross-on-Wye	71	60	57	Tr	7	1.6
Hartland Point	66	60	58	5	1	3.4
Bristol ...	72	61	60	Tr	4	2.0
Portland Bill ...	73	62	*	0.1	–	*
Plymouth ...	68	59	54	7	5	0.0
The Lizard ...	69	57	*	0.1	–	3.0
Scilly (St. Mary's)	67	59	*	–	–	5.7
Guernsey ...	68	59	58	–	0.2	1.8
Pembroke ...	68	59	*	19	1	0.1
Holyhead ...	67	59	58	11	0.2	3.0
Chester (Sealand)	74	*	55	–	Tr	6.0
Manchester ...	76	61	56	–	10	10.4
Spurn Head ...	64	57	*	Tr	Tr	1.8
Catterick ...	63	59	59	–	14	0.0
Tynemouth ...	61	58	57	–	2	0.0
St. Abbs Head	60	57	*	Tr	1	*
Leuchars ...	61	57	56	–	0.1	0.0
Renfrew (Abbots I.)	64	59	58	–	Tr	0.0
Eskdalemuir ...	65	57	56	–	2	1.0
Point of Ayre...	67	60	*	Tr	–	3.9
Tiree	58	52	*	Tr	11	*
Stornoway ...			*	–		
Dalwhinnie ...	58	53	51	0.4	0.4	0.0
Aberdeen ...	60	56	54	–	Tr	0.0
Wick ...	57	54	*	–	–	*
Lerwick ...	55	52	*	Tr	–	0.0
Blacksod Point	65	47	*	–	–	*
Malin Head ...	59	52	*	Tr	0.6	4.0
Aldergrove ...	61	53	53	11	3	0.0
Birr Castle ...	67	50	39	–	–	6.1
Valentia Obsy. †	64	45	39	–	Tr	11.3
Roches Point	67	53	*	4	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew...	18	cmobcy	cybcb	bctlPRm.	80	62	56	–	3	8.5	*	*	5
Croydon	217	vmobcz.	bbcz.	tlrrbm.	79	60	60	–	2	8.0	*	*	5
Greenwich (Royal Observatory)...	149	cb	by	bclcbz	80	62	51	–	–	8.8	54	79	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	81	64	*	0.4		9.2	50	75	*
Regents Pk. (Botanic Gardens)†...	168	*	*	*	81	62	55	–	–	3.0	55	85	*
Camden Square	110	bc	bc	*	82	62	58	–	0.5	*	*	84	*
Kensington	80	bc	bc	*	82	62	60	–	0.3	8.8	At 18h 66	71	*
Hampstead Observatory	450	bc	bc	orb	78	59	57	–	1	8.8	*	62	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 21st.

South Kensington. Max.	Time.	Min.	Time.
<0.3	whole	period	

Kew Observatory. Max.	Time.	Min.	Time.
0.1	7h 21st	<0.1	3-17h 20th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 20th August. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 21st August. 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						1008.3	SSE	1	c2o	64		*		*
Brussels	1007.5	ENE	2	c	75	1007.9	ESE	2	bc	68	98	57	0.4	–
Berlin						1014.8	E	3	2o	70		64		–
Zurich	1009.0	NE	1	c	70	1008.6	NE	2	c	68	75	*	–	*
Rome	1009.0	SE	2	c	77	1009.6	NE	2	c	68	*	*	–	7

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 Precipitous.
4 Rough.	9 Confused.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 22nd August, 1939.
No. 28397

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	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)...	1007.9	-4	-	0	zo	76	55	6	8	-	-	4-6	4-6	4000
	Croydon	1008.1	-4	-	0	bc	77	65	7	2	4	3	2-3	4-6	5700
	S. Farnborough	1007.9	-8	N	1	zo	77	65	6	1	3	-	2-3	2-3	4000
	Boscombe Down	1008.3	-2	NE'E	1	zo	73	65	7	2	3	9	7-8	9	4000
	Calshot (Soton.)	1008.3	+2	ESE	2	zo	73	75	6	2	3	4	1	4-6	2500
	Lympne ...	1009.1	0	SSE	2	bc	71	75	7	2	3	1	1	4-6	4000
	Manston ...	1008.1	-2	ESE	2	zo	75	75	6	2	-	8	2-3	4-6	2500
2	Shoeburyness ...	1008.2	-4	SSE	1	bt	79	75	6	3	8	1	1	1	4000
	Felixstowe ...	1008.2	-2	SE	3	zo	72	85	6	-	-	1	0	Tr	-
	Gorleston ...	1008.5	-2	NEE	2	b	69	85	6	-	-	5	0	1	-
	Mildenhall ...	1008.0	-2	S'W	1	bc	80	55	7	2	-	9	4-6	4-6	4000
	Cranwell ...	1008.6	-8	-	0	zo	77	65	6	1	-	-	7-8	7-8	2500
3	Birmingham ...	1009.9	0	NNE	2	o	65	85	6	5	-	-	10	10	800
	Upper Heyford	1008.8	-8	NE	1	zo	71	75	6	5	3	-	2-3	7-8	800
4	Ross-on-Wye ...	1009.6	-4	NE	2	zo	68	75	6	5	3	-	9	9+	1500
5	Hartland Point	1009.1	0	WNW	2	c	69	97	7	5	1	-	7-8	10	800
	Bristol	1008.8	-6	NNE	2	zo	71	75	7	8	3	-	4-6	7-8	1500
	Portland Bill ...	1008.5	+4	SW	1	c	68	85	7	1	-	-	10	10	1500
	Plymouth ...	1009.1	+2	SSW	2	zo	67	85	6	8	-	-	9	9	2500
	The Lizard ...	1010.1	+4	NW	4	c	66	85	7	8	6	-	7-8	9	1500
	Scilly (St. Mary's)	1011.2	+2	NW	4	c	62	97	6	5	2	-	7-8	10	2500
	Guernsey ...	1009.4	+4	W'N	3	zo	68	85	6	4	1	8	4-6	9+	800
6	Pembroke ...	1009.3	-4	NNW	4	m	63	92	4	8	7	-	4-6	7-8	1500
7	Holyhead ...	1009.5	-12	NE'E	4	c	68	85	7	-	9	-	0	7-8	-
	Chester (Sealand)	1010.1	-4	NE'E	2	zo	68	75	5	5	2	-	7-8	10	1500
8	Manchester ...	1010.3	-4	NE	2	c/pr	67	85	6	8	-	-	9	9	2500
10	Spurn Head ...	1010.6	-2	NE'N	2	c	67	85	6	5	1	-	2-3	7-8	450
	Catterick ...	1011.1	-10	NE'E	3	zo	67	85	6	9	7	-	7-8	7-8	1500
	Tynemouth ...	1012.3	-12	N	3	cf	59	97	3	5	-	-	10	10	1500
11	St. Abbs Head...	1013.9	-4	ENE	1	F	58	97	1	-	-	-	10	10	<150
	Leuchars ...	1013.8	-10	ENE	3	zo	61	92	5	-	2	-	10	10	450
12	Renfrew (AbbotsI.)	1013.0	-8	ESE	3	c	68	85	7	8	3	-	4-6	7-8	1500
	Eskdalemuir ...	1011.6	-12	NE'E	4	c	66	75	8	8	7	-	7-8	9+	2500
	Point of Ayre ...	1011.7	0	ENE	1	c	64	92	7	5	-	-	9+	9+	2500
13A	Tiree	1014.4	0	NNW	2	c	60	85	8	5	7	-	7-8	7-8	2500
13B	Stornoway ...	1015.0	0	S	3	c	59	8[illegible]	8	5	4	6	4-6	9	4000
15	Dalwhinnie ...	1014.0	-6	S	1	c	64	75	7	4	6	1	4-6	7-8	2500
	Aberdeen ...	1014.3	-10	NE'E	2	c	63	85	6	6	3	-	7-8	9+	800
	Wick	1014.9	-6	SE	3	c	58	97	5	5	7	2	4-6	9	800
16	Lerwick... ...	1016.0	-10	S	3	c	56	97	7	5	2	-	7-8	10	800
17	Blacksod Point...	1015.0	0	N'E	3	bc	62	65	9	1	.	-	4-6	4-6	4000
18	Malin Head ...	1015.2	-2	N	3	c	57	75	8	6	7	-	4-6	9	4000
	Aldergrove ...	1013.1	-2	NNW	3	zo	58	85	6	5	-	-	10	10	800
19	Birr Castle ...	1013.6	+2	NNW	2	ido	58	85	7	5	-	-	10	10	2500
20	Valentia Obsy.†	1014.4	-2	W'W	4	bc	61	55	9	7	-	5	4-6	4-6	4000
	Roches Point ...	1012.3	-2	N	3	c	62	75	8	5	7	-	7-8	10	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High. (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1008.2	+10	-	0	r/tlr	65	92	6	8	-	3	4-6	4-6	2500	1	*
Croydon	1008.4	+6	-	0	bc	66	85	6	3	6	3	2-3	4-6	4000	1	*
S. Farnborough	1008.0	+6	E'S	2	r/tlr	70	85	6	8	-	-	9	9	4000	1	*
Boscombe Down	1007.8	+2	W	1	t	73	75	6	8	-	6	7-8	9	4000	0	*
Calshot (Soton.)	1008.2	+2	SSW	4	zo	59	85	6	2	4	8	1	2-3	4000	0	2
Lympne	1009.6	+6	WSW	3	zo	69	92	5	5	-	-	9+	9+	450	0	§ 1
Manston	1008.5	+10	SW'S	4	c	69	75	6	-	9	-	0	9+	-	0	*
Shoeburyness	1008.2	+12	SSE	2	bc	71	85	6	2	8	1	2-3	4-6	4000	0	*
Felixstowe	1008.1	+2	SSE	1	zo	70	85	6	2	8	6	Tr	4-6	2500	0	1
Gorleston	1007.9	0	-	0	bc	67	92	6	-	5	-	0	4-6	-	0	2
Mildenhall	1007.6	0	-	0	zo	68	85	6	9	7	3	4-6	9+	1500	1	*
Cranwell	1008.2	+2	N	3	c	71	75	7	8	2	3	4-6	9	2500	0	*
Birmingham	1008.5	-2	-	0	bc	70	65	7	2	9	-	1	4-6	2500	1	*
Upper Heyford	1009.3	+8	-	0	tlr	62	92	8	9	8	-	9	10	800	1	*
Ross-on-Wye	1008.4	-4	-	0	zo	71	75	6	2	-	3	Tr	2-3	4000	1	*
Hartland Point	1008.8	-2	WNW	3	o	62	97	6	5	-	-	10	10	800	1	2
Bristol	1008.4	+2	N	2	t	69	85	7	8	6	8	4-6	7-8	1500	0	*
Portland Bill	1008.7	+6	W	1	c	69	85	7	5	-	-	10	10	1500	1	2
Plymouth	1009.0	+6	-	0	c/pr	69	92	6	9	-	-	9+	9+	1500	1	1
The Lizard	1010.5	0	W'S	3	c	59	97	7	5	2	-	9	10	1500	0	2
Scilly (St. Mary's)	1011.4	+2	NW'W	4	c	60	92	7	5	2	-	4-6	10	2500	0	2
Guernsey	1009.4	+4	W'S	2	fs	61	97	3	-	-	-	10	10	<150	1	2
Pembroke	1009.2	-4	N'W	3	zo	62	92	6	5	7	-	4-6	7-8	1500	1	1
Holyhead	1009.5	-6	N'W	4	c	61	92	6	5	3	-	4-6	7-8	7200	1	2
Chester (Sealand)	1008.9	-2	NW	1	zo	69	85	5	5	3	-	9	9+	2500	1	*
Manchester	1008.7	-10	NE	3	zo	71	75	6	-	4	6	0	4-6	-	1	*
Spurn Head	1009.9	-6	N'E	2	c	63	92	6	5	2	-	4-6	7-8	450	0	1
Catterick	1010.6	-2	N	3	dd	61	97	4	5	-	-	10	10	220	1	*
Tynemouth	1011.0	-4	N	3	f	58	97	3	5	-	-	10	10	1500	1	1
St. Abbs Head	1012.1	-10	NW	2	F+	57	97	0	-	-	-	10	10	<150	1	1
Leuchars	1012.9	-2	ENE	2	cf+	59	97	3	-	2	-	10	10	<150	1	*
Renfrew (AbbotsI.)	1012.3	-6	E	3	zo	69	85	6	8	-	-	10	10	1500	0	*
Eskdalemuir	1011.0	-10	NNE	3	RR	61	97	6	9	2	-	2-3	9+	800	1	*
Point of Ayre	1010.6	-8	-	0	c	62	97	7	5	4	6	Tr	9+	2500	1	0
Tiree	1014.1	0	NNW	3	bc	58	85	8	5	3	-	2-3	4-6	2500	0	3
Stornoway	1015.0	+2	WNW	3	c	60	75	8	5	7	-	4-6	7-8	4000	1	2
Dalwhinnie	1012.5	-4	S	3	bc	65	75	8	4	4	2	2-3	4-6	4000	0	*
Aberdeen	1013.2	-10	NNE	2	dodo	59	97	4	5	-	-	10	10	<150	0	1
Wick	1013.8	-4	SE	3	c	57	97	6	5	2	-	9	10	800	0	1
Lerwick	1014.0	-4	S	2	c	58	85	8	5	3	-	4-6	7-8	800	0	*
Blacksod Point	1014.8	0	N'E	3	bc	60	75	9	2	-	4	4-6	4-6	4000	0	2
Malin Head	1014.5	-2	N	3	c	57	85	8	6	2	-	4-6	9+	4000	0	2
Aldergrove	1012.5	-6	NNW	3	c	57	85	8	5	-	-	10	10	1500	1	*
Birr Castle	1012.6	-4	NNW	1	c	60	85	8	5	2	-	7-8	10	1500	0	*
Valentia Obsy.†	1014.3	0	NNW	4	b	61	65	9	1	.	4	Tr	1	4000	0	2
Roches Point	1012.2	0	N	3	c	62	85	9	5	7	-	7-8	10	1500	1	1

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)	omobczoy	oTLRrh	bmomoffe	ofefec
Croydon	ombczo	bccTLRobc	bcbmofe	ofem mo
S. Farnborough	Lrodobc	bcctlrmo	trb)mo	mmoo
Boscombe Down	cmo	bczobctzo	TLRbm	bfofwf
Calshot (Soton.)	cmobcmobm	bcmobmo	bmomdw	ofomo
Lympne	bc	bczomo	cm mol	omofcmo
Manston	bbcmo	bccmo	cbccmo	cmo
Shoeburyness	cmobzot	bcprotzo	bccmo	cmoom
Felixstowe	bcmobzo	bzobczo	bcmobmol	mofom
Gorleston	b	bbczo	bcbzolo	bzoffoe
Mildenhall	bcfebc	bcycTLHc	cmofe	ffefd
Cranwell	of,bczo	bczobc	bcctlrcmo	cmoom
Birmingham	cpro o	obc	bcctlr	cf
Upper Heyford	cprtmozo	bccTLRL	ctlRbcbl	bmobof
Ross-on-Wye	cmo	czbcz	bzcmtlpdTR	omff
Hartland Point	eoc	co	off	ffo
Bristol	cmobc	bczotc	ctloror	owfecro
Portland Bill	c	c	bcc	czo
Plymouth	bmocmo	ctLRc	cbccomo	omocmo
The Lizard	bcc	c	cFP	FF
Scilly (St. Mary's)	ciroc	c	crrffe	fofemo
Guernsey	obccz	czf	fcbcw	olcid
Pembroke	offcm	mc	off	oc
Holyhead	moc	moc;bc	bccmoc	cmoc
Chester (Sealand)	cmmo	cmozo	TLRmcmo	bccomo
Manchester	cmoTLR PR	promobczo	bczoczow	bczocmow
Spurn Head	cbcc	c	cwf	fo
Catterick	tlrcmo	idoddm	dodomido	fomido
Tynemouth	oiRtlff	off	off	oiroff
St. Abbs Head	Ff	Ffe	dFfe	Feom
Leuchars	dodorrhom	ommihiro	ffrododof	ofedoffmo
Renfrew (AbbotsI.)	cmoc	ccmo	cmow	cmodwm
Eskdalemuir	ctidoirc	cirotR	irocom	omomo
Point of Ayre	c	roroc	clc	c
Tiree	c	cbcc	cbc	bc
Stornoway	c	c	cbcw	bc
Dalwhinnie	c	cbc	*	cir
Aberdeen	ofedoc	coifro	doffe	feoc
Wick	cocmo	cmo	cproc	cPRc
Lerwick	c	cbcc	FFPR)	fPRlir
Blacksod Point	bc	bc	bc	b
Malin Head	c	c	bc	bc
Aldergrove	cmo	cmoiroc	crrc	c
Birr Castle	coido	oidoc	cbc	bcb
Valentia Obsy.†	bcy	bcyb	bbw	bwbc
Roches Point	bciroc	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/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.

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.*

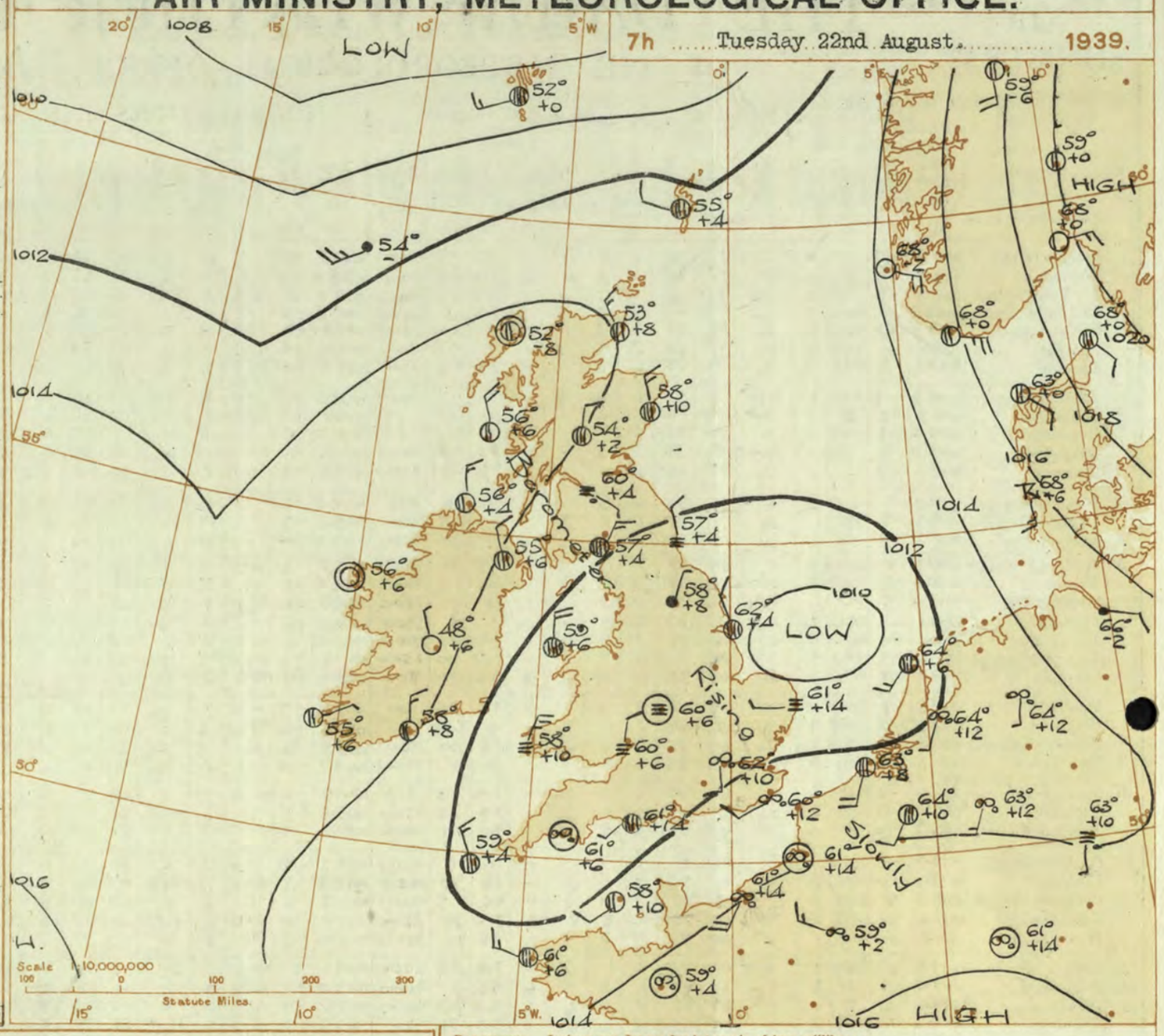
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 21st August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 20th to 9h. 21st.	Temperature. (°F) Max. 9h.—17h. 21st.	Rainfall. (mm.) Night. 17h. 20th to 9h. 21st.	Rainfall. (mm.) Day. 9h.—17h. 21st.	Sunshine. (Hrs.) Sunrise to 17h. 21st.	Sunshine. (Hrs.) Sunrise to Sunset. 20th.
1	Tunbridge W.	bcb	bcb	61	81	2	-	8·4	9·4
	Bournemouth	bcb	b	59	75	25	-	7·8	4·5
	Ventnor ...	thrb	bz	62	74	12	-	10·7	10·9
	Southsea ...	b	b	64	75	2	-	9·8	10·3
	Bognor Regis	bcb	bbc	61	72	1	-	9·3	11·6
	Littlehampton	bc	bc	60	72	1	-	8·9	11·3
	Worthing ...	b	bbco	62	71	4	-	6·8	11·1
	Brighton ...	bcb	bcc	62	70	-	-	4·3	11·6
	Eastbourne† ...	cbc	bcom	63	71	Trace	-	5·2	11·2
	Hastings† ...	bc	co	62	71	0·5	-	4·2	*
	Folkestone ...	bc	bcz	63	77	0·3	-	10·5	11·1
	Dover ...	bc	bc	63	73	Trace	-	9·5	11·5
	Deal	bbcb	bbc	60	78	Trace	-	10·8	11·1
	Ramsgate ...	zbc	zbc	69	74	10	-	10·5	11·4
	Margate ...	bc	bc	69	80	0·3	-	10·5	11·3
2	Southend ...	b	bcrot	62	82	Trace	Trace	7·0	9·9
	Clacton-on-Sea	bcz	bcz	60	73	0·4	-	8·5	11·9
	Dovercourt ...	bcl	bcb	61	74	-	-	10·1	11·0
	Lowestoft ...	b	b	63	71	-	-	11·3	12·4
	Skegness ...	b	bbc	61	68	-	-	10·2	4·7
	Mablethorpe...	b	bbco	60	68	-	-	9·8	1·7
	Cleethorpes ...	bc	bcc	60	67	-	-	5·9	0·0
3	Leamington S.	orc	cbc	60	73	5	2	3·5	3·2
4	Cheltenham†	wcbc	citpc	60	75	-	Trace	3·6	3·3
5	Bath	cbc	bcctl	61	76	2	-	2·5	3·0
	Weymouth ...	cb	bc	62	73	15	-	4·0	4·8
	Jersey ...	czbc	bcbz	61	69	-	-	6·2	6·2
	Torquay ...	cbcz	bcct	60	71	11	-	5·4	2·4
	Falmouth ...	c	c	60	68	-	-	5·6	0·3
	Penzance ...	rc	c	60	66	2	-	0·5	*
	St. Ives ...	c	o	54	63	-	-	0·3	3·9
	Bude... ...	c	lam	59	67	2	-	0·5	3·4
	Ilfracombe ...	tlroc	ocz	60	65	*	-	1·2	0·5
6	Aberystwyth	tlrbc	c	60	69	5	-	2·0	1·8
7	Llandudno ...	c	c	58	67	Trace	-	0·4	4·2
	Colwyn Bay...	cbc	bccbc	56	66	Trace	-	0·1	4·5
	Rhyl	cromo	cmo	61	68	Trace	Trace	0·2	5·8
8	Wallasey ...	pcorc	cpoc	59	69	Trace	2	0·0	10·6
	Southport ...	tlrc	ctcbc	58	68	0·2	11	0·2	11·6
	Blackpool ...	tlr, tlr	tcpobc	58	67	0·5	28	0·9	11·3
	Morecambe ...	bctlr	tlrbc	61	71	Trace	10	1·9	9·9
9	Ilkley... ...	otc	cbc	58	69	1	-	2·8	2·3
	Harrogate ...	oc	oc	59	66	1	-	0·1	0·0
10	Berwick-on-T.	off	ffo	58	61	0·2	-	0·0	0·0
11	Dunbar ...	cmrtl	cmrtl	56	59	2	3	0·0	0·0
12	Troon... ...	oc	co	56	70	-	-	4·1	0·6
	Douglas ...	cpr	bcz	57	67	0·3	0·5	1·3	3·7

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 22nd August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind light and variable. Cloudy and close with local thundery rain or thunderstorms. Much fog inland in the morning and persistent mist or fog locally on the coasts.
13 A. W. Scotland B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind light and variable. Occasional rain or showers, but bright periods. Average temperature.

GENERAL INFERENCE.

A shallow depression over the North Sea is moving slowly northwards. The weather will remain generally close and cloudy with local thunderstorms in England and Wales and South Scotland, but brighter conditions will spread slowly from the southwest.

FURTHER OUTLOOK.

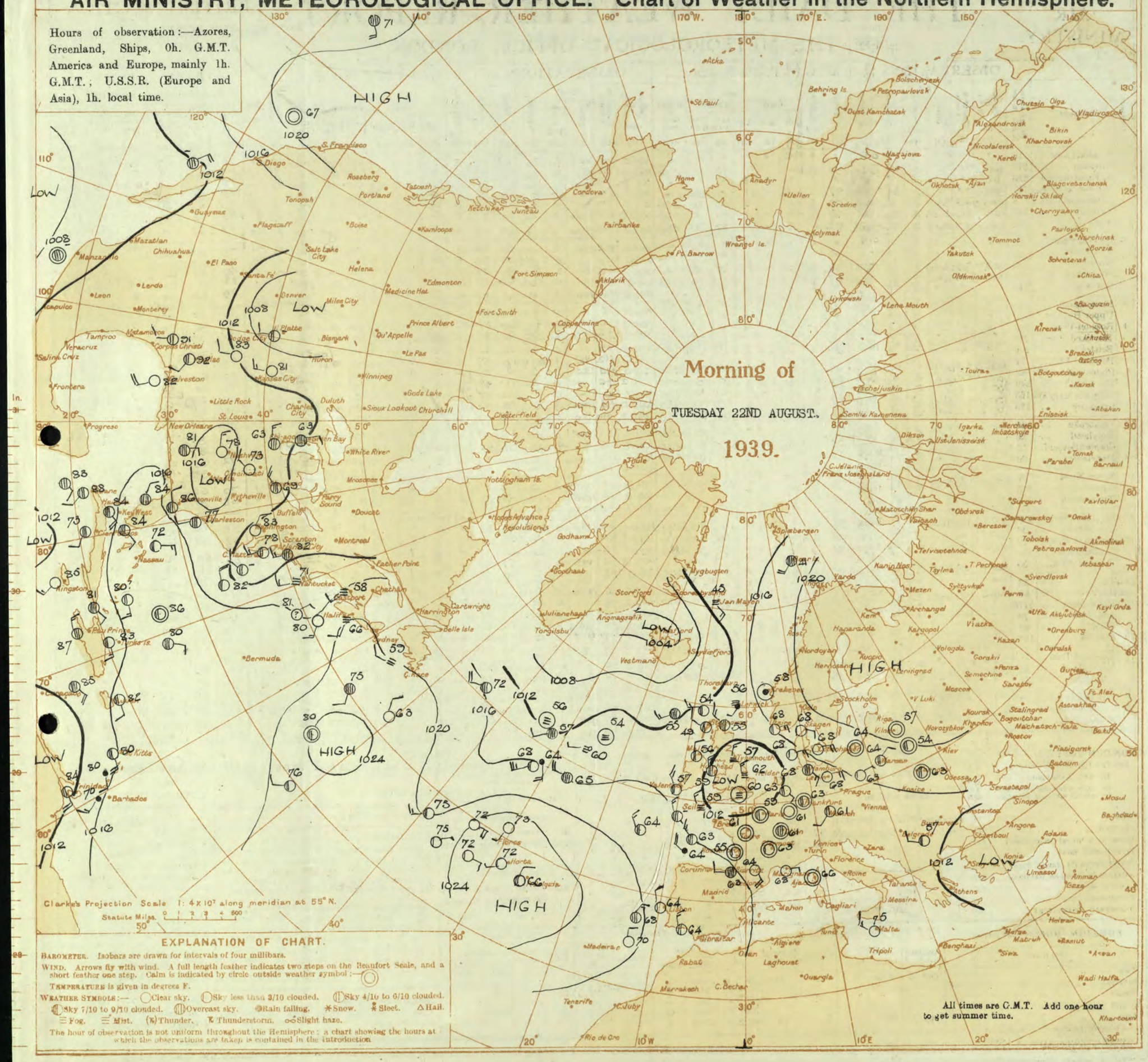
Unsettled.

Forecasts issued at 0930 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.



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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 22nd August, 1939.
No. 28397

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

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	1010.2	+6	–	0	f	60	97	2	–	–	–	10	10	<150
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1010.0	+4	–	0	bf+	58	97	3	–	–	–	0	0	–
	Calshot (Sthmtn.)	8	1009.9	+6	SSW	3	zo	63	97	5	5	–	–	10	10	450
	Lympne	346	1011.1	+6	SWS	3	zo	61	97	5	5	–	–	10	10	220
	Manston	154	1010.1	+2	SW'S	3	zo	62	92	6	5	–	–	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1008.7	0	SW'W	2	b	63	92	6	–	–	–	0	0	–
	Mildenhall	19	1009.4	+6	N'W	2	f	62	97	2	–	–	–	10	10	<150
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010.0	0	NW	2	F	60	97	1	–	–	–	10	10	<150
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1009.5	+4	WNW	1	c	62	92	7	5	–	–	7-8	7-8	2500
	Plymouth	82	1010.7	+4	N'W	2	zo	62	92	6	5	–	–	10	10	1500
	The Lizard	240	1011.7	+2	W	2	oF	58	97	1	5	–	–	10	10	220
	Scilly (St. Mary's)	163	1012.1	-2	NW	3	f	59	97	2	–	–	–	10	10	<150
	Guernsey	175	1011.2	+2	WS	3	d	58	97	5	5	–	–	9+	9+	450
6	Pembroke	142	1010.6	0	NNE	4	f	59	97	3	–	–	–	10	10	<150
7	Holyhead	26	1010.9	0	NNW	4	c	59	92	6	5	–	–	10	10	450
	Chester (Sealand)	16	1010.2	-2	NWW	2	c/TLR	62	92	6	9	–	–	10	10	1500
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1010.4	+2	NNW	3	f	62	97	0	5	–	–	10	10	<150
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1010.6	-6	N	3	f	57	97	3	5	–	–	10	10	1500
11	St. Abbs Head	280	1011.2	-10	NW	2	F	56	97	1	–	–	–	10	10	450
	Leuchars	36	1012.1	-6	–	0	f-	58	97	2	–	–	–	10	10	<150
12	Renfrew (Abbots I.)	19	1012.6	-2	–	0	zo	60	97	5	5	–	–	10	10	800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1011.2	0	N'W	3	c	60	97	7	5	–	–	9	9	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1015.6	+2	WNW	2	bc	49	92	8	5	–	–	2-3	2-3	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1013.7	-2	WNW	3	c	55	97	7	5	7	–	4-6	7-8	1500
16	Lerwick	156	1013.2	-10	SSW	1	PR	56	97	1	–	–	–	10	10	<150
17	Blacksod Point	18	1015.4	+2	–	0	b	52	92	8	–	–	–	0	0	–
18	Malin Head	84	1014.6	0	N	2	bc	56	75	7	5	–	–	2-3	2-3	5700
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1014.8	0	NW	3	bc	57	97	8	5	–	–	2-3	2-3	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 22nd August — 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)	Temp. Max. Day 7h–18h °F. (31)	Temp. Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 21s.t. Hrs. (36)
London (Kew)	1011.8	+14	SW'S	2	zo	63	92	5	5	–	–	10	10	800	1	*	79	61	57	19	Tr	4.2
Croydon	1012.0	+10	S	2	zo	62	92	6	5	–	–	10	10	800	1	*	82	60	59	5	Tr	4.6
S. Farnborough	1011.7	+8	S'W	1	zo	62	97	5	5	–	–	10	10	450	0	*	79	60	54	0.2	0.2	4.6
Boscombe Down	1011.5	+8	SE	1	f	60	97	2	–	–	–	10	10	<150	1	*	75	57	53	–	2	3.5
Calshot (Sthmtn.)	1011.6	+10	S	3	zo	63	92	5	6	–	–	10	10	800	0	2	76	62	60	–	–	9.7
Lympne	1012.9	+12	SW'W	2	zo	60	92	5	5	–	–	10	10	800	0	§	73	60	57	–	Tr	11.1
Manston	1012.1	+10	SSW	2	zo	62	85	6	5	–	–	10	10	450	0	*	79	61	*	–	–	10.2
Shoeburyness	1011.8	+14	SW	2	o	64	85	5	5	–	–	10	10	450	0	*	79	62	61	Tr	–	8.4
Felixstowe	1011.6	+10	W	4	d/f	63	92	5	5	–	–	10	10	800	0	2	73	62	62	–	–	10.7
Gorleston	1011.1	+14	W	1	F	61	97	1	–	–	–	10	10	<150	0	1	69	61	60	–	–	11.1
Mildenhall	1011.6	+14	–	0	dodo	62	97	5	5	–	–	10	10	800	1	*	83	61	59	24	0.2	5.8
Cranwell	1011.3	+6	NNW	1	m	61	97	4	5	–	–	10	10	800	1	*	79	60	60	Tr	5	6.7
Birmingham	1012.0	+6	–	0	f	60	97	2	–	–	–	10	10	<150	1	*	71	59	58	0.2	2	2.5
Upper Heyford	1011.7	+6	–	0	f-	60	97	2	–	–	–	10	10	<150	1	*	78	56	50	7	8	*
Ross-on-Wye	1011.4	+6	N'E	2	of	60	97	2	5	–	–	10	10	<150	1	*	73	59	54	–	1	2.3
Hartland Point	1010.8	+8	–	0	∞	61	97	5	5	–	–	10	10	800	1	2	65	60	6	–	–	0.8
Bristol	1011.6	+12	NE	1	m/f	60	97	4	5	3	–	4-6	7-8	800	1		74	55	49	–	1	4.0
Portland Bill	1011.5	+14	SW	1	3	61	92	6	5	–	–	10	10	1500	1	2	72	60	*	–	–	*
Plymouth	1011.2	+6	–	0	zo	61	97	5	5	–	–	10	10	220	1	1	71	61	58	19	–	5.3
The Lizard	1011.7	0	–	0	F	59	97	1	5	–	–	10	10	450	1	1	67	57	*	–	Tr	3.8
Scilly (St. Mary's)	1012.0	+4	NNW	3	o	59	97	5	5	–	–	10	10	800	1	2	63	58	*	0.3	9	0.0
Guernsey	1012.2	+10	SW	2	bc	58	97	8	6	7	–	2-3	4-6	2500	1	2	68	57	55	–	0.5	6.1
Pembroke	1011.8	+10	NNE	5	f-	58	97	*	–	–	–	10	10	<150	1	1	67	57	*	–	–	4.6
Holyhead	1011.8	+6	N	4	o	59	97	7	5	–	–	10	10	450	1	2	68	57	56	–	–	3.5
Chester (Sealand)	1011.6	+10	SW'W	1	zo	62	92	5	5	–	–	10	10	800	1	*	72	59	55	0.6	3	0.7
Manchester	1011.4	+4	–	0	m	60	97	4	5	–	–	7-8	7-8	5700	1	*	71	59	56	4	–	1.7
Spurn Head	1011.3	+4	NW'N	2	o	62	92	7	–	2	–	10	10	800	0	1	70	62	*	–	Tr	7.1
Catterick	1011.8	+8	NNE	1	ido	58	97	4	5	–	–	10	10	450	1	*	68	57	57	9	0.2	3.5
Tynemouth	1011.7	+4	NNW	2	f	57	97	3	5	–	–	10	10	1500	1	1	66	56	55	15	0.6	0.0
St. Abbs Head	1012.4	+6	NNE	5	m/F	55	97	4	5	–	–	10	10	800	1	3	58	54	*	0.3	0.4	*
Leuchars	1012.7	+10	–	0	zo	58	97	5	–	2	–	10	10	220	1	*	62	57	56	10	1	0.0
Renfrew (Abbots I.)	1012.7	+4	SE	1	m	60	97	4	5	7	–	4-6	7-8	800	0	*	68	58	56	Tr	–	1.5
Eskdalemuir	1012.3	+4	NNE	3	o	57	97	6	5	–	–	10	10	220	1	*	69	56	55	3	6.6	1.7
Point of Ayre	1011.9	+8	–	0	c	60	97	7	5	1	–	7-8	10	1500	0	1	67	58	*	1	–	1.9
Tiree	1014.4	+6	N'W	4	bc	56	85	8	–	4	5	0	2-3	–	0	3	61	54	50	–	–	3.3
Stornoway	1015.2	-8	–	0	bc	52	92	9	5	–	2	2-3	4-6	4000	1	0	65	48	*	–	–	8.1
Dalwhinnie	1014.6	+2	N	2	c	54	92	6	5	–	–	10	10	1500	1	*	67	51	43	–	0.6	3.1
Aberdeen	1013.5	+10	NNW	3	c	58	85	7	5	–	–	9	9	4000	0	1	63	56	54	0.1	Tr	0.0
Wick	1014.1	+8	NW	3	c	53	92	8	5	7	8	4-6	9+	1500	1	1	59	53	*	–	1	*
Lerwick	1012.5	+4	WNW	2	c	55	92	7	8	2	–	7-8	9+	800	1	*	61	54	*	–	12	4.0
Blacksod Point	1015.9	+6	–	0	b	56	85	9	–	–	–	0	0	–	0	0	65	49	*	–	–	*
Malin Head	1015.0	+4	N	3	bc	56	75	8	2	–	5	1	2-3	5700	0	1	59	51	*	–	–	0.4
Aldergrove	1013.8	+6	NNW	2	c	55	85	8	8	3	–	9	9+	800	1	*	60	53	52	0.1	2	0.0
Birr Castle	1014.8	+6	NNW	1	b	48	97	7	–	–	–	0	0	–	0	*	61	47	38	Tr	–	0.0
Valentia Obsy. †	1015.2	+6	E'N	1	bc	55	85	9	1	–	6	Tr	4-6	2500	0	1	63	49	43	–	Tr	0.9
Roches Point	1014.1	+8	N	3	bc	58	92	8	5	–	–	4-6	4-6	2500	1	1	64	57	*	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. (To-day)
Kew	18	omobczy	oTLRrh	bmoffec	79	61	57	19	Tr	4.2	•	•	5
Croydon	217	ombcz	bcTLRbc	bcbmofe	82	60	59	5	Tr	4.6	•	•	c
Greenwich (Royal Observatory)	149				82	60	55	11	–	5.4	61	88	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	*	•	•	•
Westminster (St. James' Park)	27	•	•	•	81	62	58	2		3.8	73	91	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	79	61	53	3	–	3.9	66	89	•
Camden Square	110	bc	bc	•	80	62	58	1	–	*	•	89	•
Kensington	80	bcm	ctlr	•	78	61	55	1	Tr	3.2	98 At 18h	91	•
Hampstead Observatory	450	bc	ort)	om	75	60	58	5	–	3.8	•	96	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 22nd

	Max.	Time.	Min.	Time.
SOUTH KENSINGTON.	<0.3	the	whole	period
KEW OBSERVATORY.	0.1	7-10h 21st	<0.1	21-24h 21st

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 21st August Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 22nd August 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	1010.9	WSW	3	zo	70	1015.4	WNW	3	zo	59	*	72	*	2
Brussels						1014.0	SW	2	c	64	61		3	
Berlin						1015.4	SE	2	zo	70	64		–	
Zürich						1016.7	SW	0	zo	63	*		4	
Rome	1010.7	W	3	bc	75	1013.0	ENE	2	b	68	*	*	–	–

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 23rd August, 1939.

No. 28398

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. °F. (6)	%Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1014.0	+6	SSW	2	c	70	76	7	8	-	-	7-8	7-8	4000
	Croydon	1013.7	+4	S'W	3	e	73	65	8	2	-	-	7-8	7-8	2500
	S. Farnborough	1014.1	+10	SSW	1	c	70	75	6	8	-	-	7-8	7-8	4000
	Boscombe Down	1013.9	+10	S'W	3	z_o	66	85	6	5	2	-	9	10	1500
	Calshot (Soton.)	1014.6	+14	S'W	4	z_o	66	75	7	7	3	-	9+	9+	2500
	Lympne	1015.4	+10	SW'S	3	c	68	75	6	5	-	2	7-8	9+	1500
	Manston	1014.6	+12	SW	3	c	70	65	6	2	-	-	7-8	7-8	2500
2	Shoeburyness	1014.5	+10	SSW	2	c	71	75	6	5	-	-	9	9	1500
	Felixstowe	1014.2	+14	SW'W	3	o/d	67	85	5	5	-	-	10	10	1500
	Gorleston	1013.4	+14	-	0	e	67	85	6	5	-	-	10	10	2500
	Mildenhall	1013.7	+14	WSW	2	z_o	67	85	6	5	-	-	10	10	1500
	Cranwell	1013.2	+6	-	0	z_o	67	85	5	5	-	-	10	10	800
3	Birmingham	1013.7	+10	SSE	2	o	65	85	6	5	-	-	10	10	1500
	Upper Heyford	1014.0	+10	S	1	m	63	97	4	5	-	-	10	10	450
4	Ross-on-Wye	1013.1	+6	NE	1	z_o	65	85	5	5	-	-	10	10	800
5	Hartland Point	1012.7	+6	N	1	o	62	97	6	5	-	-	10	10	800
	Bristol	1013.4	+8	SSW	1	z_o	68	85	6	5	7	-	9-6	7-8	1500
	Portland Bill	1014.1	+14	SW	2	c	63	92	8	2	-	-	10	10	4000
	Plymouth	1012.9	+6	SSW	2	ct	66	85	6	8	-	-	7-8	7-8	2500
	The Lizard	1013.1	+6	E'S	1	c	65	97	6	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	1014.0	+10	N	2	o	59	97	6	5	-	-	10	10	1500
	Guernsey	1014.8	+14	SSW	4	bc	63	85	8	1	7	-	2-3	4-6	2500
6	Pembroke	1013.3	0	NNE	4	c	63	92	5	5	2	-	7-8	9	1500
7	Holyhead	1013.6	+10	NNW	3	c	60	92	7	5	2	-	9	10	800
	Chester (Sealand)	1013.5	+10	NNW	1	z_o	66	85	6	5	1	-	7-8	7-8	1500
8	Manchester	1013.2	+8	SW'W	2	z_o	67	85	5	5	-	-	10	10	1500
10	Spurn Head	1012.9	+6	NE'N	2	o	63	85	6	-	2	-	10	10	800
	Catterick	1013.7	+10	N'E	1	z_o	62	85	6	9	-	-	10	10	800
	Tynemouth	1013.2	+10	N	3	o	58	97	6	5	-	-	10	10	1500
11	St. Abbs Head	1013.9	+2	NNE	3	o	57	85	8	5	-	-	10	10	1500
	Leuchars	1014.1	+2	SE	1	c	61	75	7	5	1	-	9+	10	2500
12	Renfrew (Abbotsl.)	1014.2	+6	ENE	2	z_o	65	85	5	5	7	-	9	10	1500
	Eskdalemuir	1014.1	+10	NE	3	c	60	85	7	5	-	-	10	10	800
	Point of Ayre	1013.8	+10	NW	2	c	67	75	7	5	1	-	9	10	1500
13A	Tiree	1015.4	+4	N'W	3	bc	61	85	8	1	4	6	1	4-6	4000
13B	Stornoway	1015.8	0	S	3	c	59	85	9	5	4	9	2-3	7-8	4000
15	Dalwhinnie	1014.5	+4	NE	2	c	62	85	7	5	2	-	9-6	10	2500
	Aberdeen	1014.1	+2	NNW	3	b	65	55	8	5	-	5	Tr	Tr	5700
	Wick	1015.1	+6	NE	3	c	57	85	8	5	7	8	9-6	7-8	1500
16	Lerwick	1012.7	0	W'N	4	c	55	85	8	8	7	-	7-8	9	800
17	Blacksod Point	1016.8	+6	N	1	bc	62	75	9	1	-	-	2-3	2-3	5700
18	Malin Head	1016.3	+6	N	3	bc	60	75	8	7	-	1	2-3	9-6	5700
	Aldergrove	1014.8	+6	NW'N	2	b	69	65	9	1	-	-	Tr	Tr	9000
19	Birr Castle	1015.6	+4	NNW	2	b	65	65	7	-	-	-	0	0	-
20	Valentia Obsy.†	1016.1	+2	N'W	4	b	65	55	9	1	-	1	Tr	1	2500
	Roches Point	1015.3	+4	N'E	3	b	67	75	9	1	-	-	1	1	4000

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. °F. (20)	%Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount Low 0–10 (26)	Cloud. Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1015.1	+6	SSW	3	c	68	65	7	8	-	4	2-3	7-8	4000	1	*
	Croydon	1014.8	+4	SW'S	1	bc	69	65	8	1	-	2	Tr	9-6	4000	0	*
	S. Farnborough	1015.3	+8	SW	2	bc	66	65	8	1	-	-	Tr	9-6	4000	0	*
	Boscombe Down	1014.8	+6	S	3	b	65	75	7	1	-	-	1	1	4000	1	*
	Calshot (Soton.)	1015.3	+6	SSW	3	bc	65	75	8	1	-	8	Tr	2-3	2500	0	2
	Lympne	1015.9	+4	SW'W	1	c	67	75	7	1	-	6	Tr	9	1500	0	§1
	Manston	1015.6	+6	SW'S	2	c	68	75	7	1	-	6	Tr	7-8	2500	0	*
2	Shoeburyness	1015.0	+4	SSW	2	c	69	75	7	1	5	8	2-3	7-8	2500	0	*
	Felixstowe	1014.6	+2	SE	3	z_o	67	85	6	5	-	6	9-6	7-8	2500	0	2
	Gorleston	1014.8	+6	ENE	2	c	69	85	6	5	-	-	10	10	2500	0	1
	Mildenhall	1014.5	+2	-	0	z_o	68	85	5	5	1	-	2-3	2-3	1500	1	*
	Cranwell	1014.0	+2	S	1	z_o	69	85	6	5	3	-	7-8	9+	1500	1	*
3	Birmingham	1014.1	0	SSE	2	z_o	67	85	5	5	-	-	2-3	2-3	2500	1	*
	Upper Heyford	1014.3	+2	SSW	3	z_o	68	75	6	2	-	-	2-3	2-3	2500	1	*
4	Ross-on-Wye	1013.8	+4	S'W	2	c/pr	64	85	6	8	-	-	9+	9+	2500	1	*
5	Hartland Point	1013.5	+8	S	1	tlr	62	97	6	8	6	-	7-8	9+	2500	1	2
	Bristol	1014.3	+6	S	2	bc	65	75	8	5	3	-	2-3	4-6	4000	1	*
	Portland Bill	1015.0	+10	SW	3	c	61	92	8	5	-	-	10	10	4000	1	2
	Plymouth	1014.0	+8	S	2	cjf	63	92	5	5	-	-	7-8	7-8	450	1	1
	The Lizard	1014.0	+8	N'W	3	c	61	92	7	8	2	-	9+	10	1500	1	1
	Scilly (St. Mary's)	1014.8	+6	N	3	tlr	59	97	5	9	-	-	10	10	450	1	2
	Guernsey	1015.2	+4	S	3	bc	61	85	8	1	7	-	2-3	2-3	2500	0	2
6	Pembroke	1014.0	+6	NE	3	cjp	62	92	6	8	1	-	7-8	9+	1500	1	0
7	Holyhead	1014.5	+2	NE'N	2	c	61	92	6	5	-	-	10	10	800	1	2
	Chester (Sealand)	1014.4	+6	NW'W	3	z_o	62	85	6	5	-	-	10	10	800	0	*
8	Manchester	1013.8	+2	W'N	2	z_o	67	85	6	1	-	-	Tr	Tr	9000	1	*
10	Spurn Head	1014.1	+6	SE'E	1	o	61	92	6	-	2	-	10	10	450	0	1
	Catterick	1014.6	+6	E'N	1	m	61	92	4	5	-	-	10	10	1500	1	*
	Tynemouth	1014.3	+6	N	3	c	59	92	6	8	-	-	7-8	7-8	1500	1	1
11	St. Abbs Head	1014.6	+2	NW	1	bc	59	75	8	8	6	-	2-3	9-6	2500	0	1
	Leuchars	1015.0	+4	S	1	c	61	75	7	5	-	-	10	10	1500	1	*
12	Renfrew (Abbotsl.)	1014.6	+2	NE	1	z_o	66	85	6	5	2	-	9-6	10	1500	0	*
	Eskdalemuir	1014.9	+2	NE	2	c	59	85	7	5	-	-	10	10	800	1	*
	Point of Ayre	1014.5	+2	NNW	2	c	62	92	7	5	-	-	9+	9+	1500	0	1
13A	Tiree	1015.9	+2	WNW	2	bc	58	75	8	1	5	6	Tr	9-6	9000	0	2
13B	Stornoway	1015.1	-2	W	3	c	60	75	9	5	7	7	2-3	10	4000	0	2
15	Dalwhinnie	1015.1	+4	-	0	c	60	85	7	5	-	-	10	10	2500	0	*
	Aberdeen	1014.7	+2	N'W	2	bc	61	75	8	5	3	8	9-6	9-6	4000	0	1
	Wick	1015.2	+4	S	2	c	57	85	8	5	7	2	9-6	7-8	1500	1	1
16	Lerwick	1014.5	0	W	3	c	56	75	8	8	3	1	9-6	7-8	1500	1	*
17	Blacksod Point	1017.4	+4	N	1	bc	60	75	9	-	-	3	0	2-3	-	0	0
18	Malin Head	1016.7	+4	N	3	bc	59	75	8	-	-	4	0	2-3	-	0	1
	Aldergrove	1015.7	+6	NNW	3	bc	61	65	9	-	-	6	0	2-3	-	1	*
19	Birr Castle	1015.4	0	NNW	1	b	69	55	7	-	-	-	0	0	-	0	*
20	Valentia Obsy.†	1016.6	+6	NW	4	b	62	75	9	1	-	1	Tr	1	2500	0	1
	Roches Point	1015.2	0	N	3	b	68	75	9	-	-	-	0	0	-	1	1

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 22nd (37)	Weather. 13h.—18h. 22nd (38)	Weather. 18h.—1h. 22nd–23rd (39)	Weather. 1h.—7h. 23rd (40)
1	London (Kew)	comoc	c	cbcbw	bbccmw
	Croydon	omoCmo	cbc	bcbw	bwmofg
	S. Farnborough	omobc	bczobc	bccbwc	cbwfc
	Boscombe Down	ofdocmo	cmobczo	b,co	obcwjf
	Calshot (Soton.)	cmo	cmob	bcmobw	bwbmo
	Lympne	cmo	bczoc	cbmo	bmowbcc
	Manston	cmo	cmo	bcbwmo	b,cwmo
2	Shoeburyness	omocmo	bcc	cmo	cbcmow
	Felixstowe	omoido	omocmo	cmobmo	bmowbcmo
	Gorleston	offczo	czo	cbcwzo	bczoffe
	Mildenhall	odocidoc	cmoidbcm	bcmobfcmo	bmovob
	Cranwell	omidomo	ocmo	como	omofdcdo
3	Birmingham	fd	obcz	bc	bcw
	Upper Heyford	ofdom	cmobczo	bczbcmo	cmobc
4	Ross-on-Wye	offom	omocmo	cbcc	c
5	Hartland Point	iffo	octlr	cbcc	cbcc
	Bristol	crocmo	cmobc	bcbbc	bcbcw
	Portland Bill	oc	c	c	cbc
	Plymouth	omorsbc	cbccjf	cjfbcc	cmo
	The Lizard	frltc	tlrc	cjfcm	cprbc
	Scilly (St. Mary's)	omdfpo	cptlR	circl	c
	Guernsey	bccbc	bc	bc	bc
6	Pembroke	ofcmo	cmo	cbcff	cjfco
7	Holyhead	momc	cbcmoc	cmo	c
	Chester (Sealand)	cmozo	cmozomo	cmo	cmomw
8	Manchester	cmoffcm	zbmo	bmocmo	cmocmw
10	Spurn Head	o	o	o	c
	Catterick	odomo	omoom	omofc	ofccm
	Tynemouth	offo	oc	cbc	bcc
11	St. Abbs Head	omoo	ocbc	cbc	bcc
	Leuchars	omommoc	c	co	ocirc
12	Renfrew (Abbotsl.)	cmmo	cbccmo	cmidmw	cmwfgbc
	Eskdalemuir	dodoc	c	bcbbc	bccwmo
	Point of Ayre	c	c	c	c
13A	Tiree	bc	bc	bcc	cmodro
13B	Stornoway	bcc	c	crofo	crofo
15	Dalwhinnie	c	c	.	cwbc
	Aberdeen	aby	bbccbc	bccw	cwbc
	Wick	c	c	cbcw	bcc
16	Lerwick	cpr	c	c	crofo
17	Blacksod Point	bc	bc	b	bc
18	Malin Head	bc	bc	bc	c
	Aldergrove	cbcb	bv	bvb	bbwbc
19	Birr Castle	b	by	b	bc
20	Valentia Obsy.†	bcby	bybcb	bbw	bwb
	Roches Point	bcb	b	bbcw	bwbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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.*

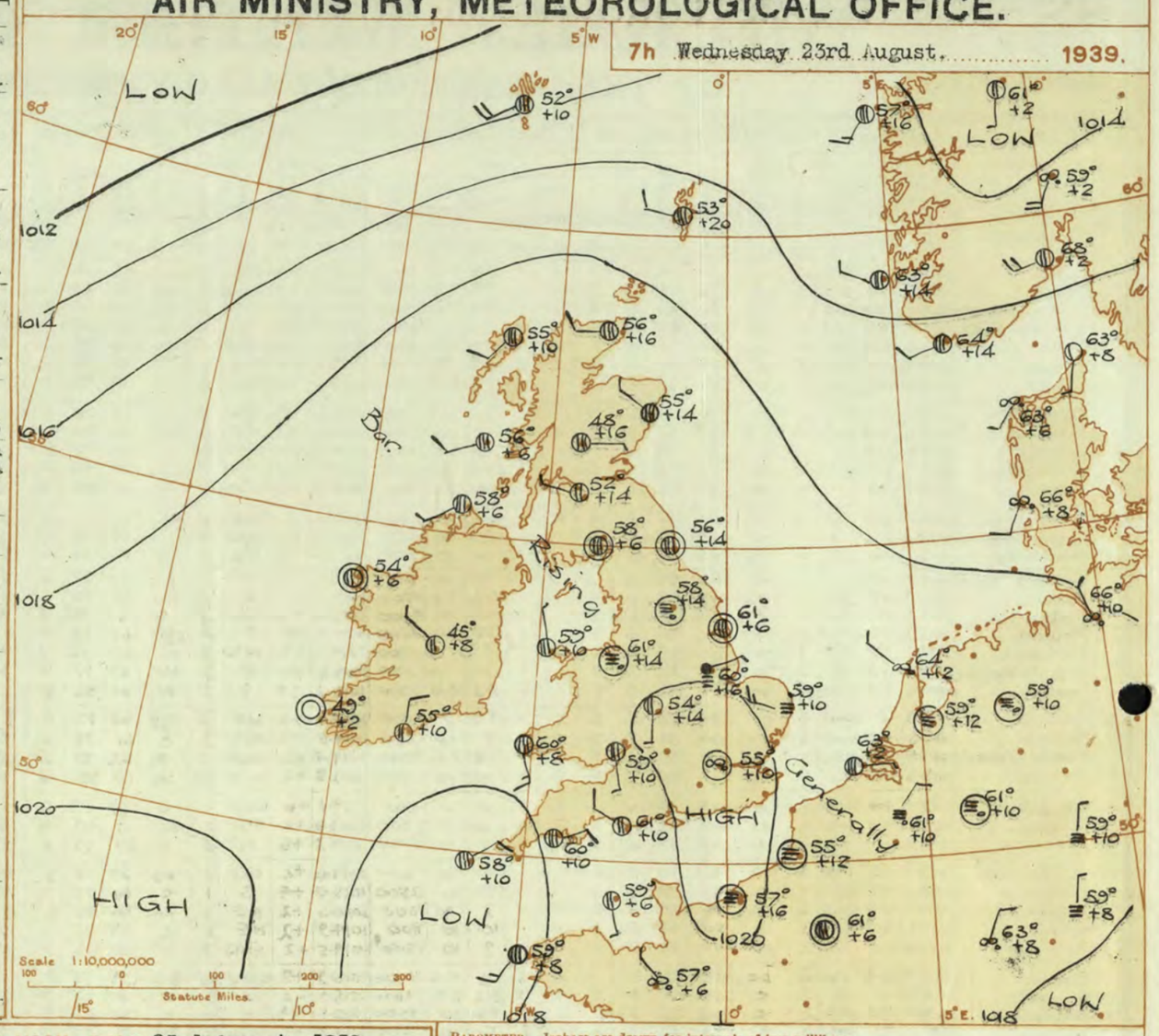
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 22nd August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min 9h. 21st to 9h. 22nd	Temperature. (°F) Max. 9h.—17h. 22nd	Rainfall. (mm.) Night 17h. 21st to 9h. 22nd	Rainfall. (mm.) Day. 9h.—17h. 22nd	Sunshine. (Hrs.) Sunrise to 17h. 22nd	Sunshine. (Hrs.) Sunrise to Sunset. 21st
1	Tunbridge W.	mcbc	bcb	60	72	-	-	5.6	9.1
	Bournemouth	moc	cb	60	68	-	-	3.8	8.5
	Ventnor ...	oco	b	60	67	-	-	3.5	10.9
	Southsea ...	cbc	b	62	71	-	-	4.7	10.3
	Bognor Regis	cbc	b	62	68	-	-	6.4	9.8
	Littlehampton	cbc	bc	62	68	-	-	6.3	9.0
	Worthing ...	cbc	b	61	69	-	-	6.1	6.8
	Brighton ...	ocbc	bcb	61	69	-	-	5.6	4.3
	Eastbourne† ...	cbc	bcbbc	61	70	-	-	6.8	5.2
	Hastings† ...	ocbc	bc	60	70	-	-	6.5	4.2
	Folkestone ...	moooc	cbc	61	69	-	-	4.3	11.1
	Dover ...	cbc	bc	62	69	-	-	6.3	8.7
	Deal	cbc	bbc	61	72	-	-	7.5	11.0
	Ramsgate ...	qbc	bc	61	71	-	-	8.2	10.7
	Margate ...	bc	bc	62	74	-	-	8.5	10.5
2	Southend ...	ocz	czbbc	62	76	1	-	4.3	7.2
	Clacton-on-Sea	ocm	cbcz	62	72	1	-	1.4	9.1
	Dovercourt ...	ocm	mcb	62	72	-	-	1.3	10.8
	Lowestoft ...	om	omo	60	68	-	-	0.0	12.2
	Skegness ...	o	ogo	60	64	-	-	0.0	10.2
	Mablethorpe...	o	o	61	65	-	-	0.0	9.8
	Cleethorpes ...	omo	omo	61	65	-	-	0.0	5.9
3	Leamington S.	o	oc	59	70	15	-	0.2	4.4
4	Cheltenham†	zoc	c	57	71	2	-	0.3	4.2
5	Bath	roc	cbcb	59	70	15	Trace	2.0	2.5
	Weymouth ...	ocb	bcc	59	66	Trace	-	2.6	4.0
	Jersey ...	bc	bc	61	68	-	-	10.4	6.9
	Torquay ...	cmobc	b	60	66	0.6	-	5.8	6.2
	Falmouth ...	fqtlr	otlom	60	66	Trace	5	0.1	5.6
	Penzance ...	mcrrt	bctlr	59	66	Trace	5	0.6	0.5
	St. Ives ...	o	r	55	62	Trace	10	0.0	0.3
	Bude... ...	ofo	tlro	61	66	-	2	0.2	0.5
	Ilfracombe ...	coz	obcoz	60	67	-	-	1.7	1.2
6	Aberystwyth	prbc	bcitc	60	68	3	-	7.8	2.0
7	Llandudno ...	o	o	60	69	-	-	0.0	0.4
	Colwyn Bay...	oc	co	60	63	0.5	-	0.0	0.1
	Rhyl	omo	omo	61	69	5	-	0.0	0.2
8	Wallasey ...	o	o	62	65	0.3	-	0.0	0.0
	Southport ...	ozcz	bczc	57	70	Trace	-	0.8	0.3
	Blackpool ...	cncmo	cmobm	57	67	-	-	2.6	1.6
	Morecambe ...	odrbc	bcc	57	70	6	Trace	1.7	2.9
9	Ilkley... ...	o	o	59	67	1	-	0.0	3.3
	Harrogate ...	oc	oc	58	69	-	-	0.4	0.1
10	Berwick-on-T.	omo	oc	55	60	0.1	-	0.1	0.0
11	Dunbar ...	cmpro	cm	55	61	1	Trace	0.0	0.0
12	Troon... ...	coc	occoc	58	66	-	-	0.1	4.1
	Douglas ...	czo	bczo	58	67	-	-	3.0	1.9

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ...	Wind light variable; fair but mist or fog in the early morning; rather warm.
3 E. Midlands ... 4 W. Midlands ...	Wind light variable; fair but mist or fog in the morning, persisting locally during the day; close and rather warm.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind light variable; fair apart from a few local showers; mist or fog in early morning; rather warm.
9 N. Midlands ... 10 N.E. England	As 2 - 4.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind light or moderate southwesterly; fair to-day, some rain spreading from the West tomorrow; mist or fog in early morning; rather warm.

GENERAL INFERENCE.

Pressure is almost stationary over the British Isles but a depression in the Atlantic is moving northeastwards towards Iceland.

FURTHER OUTLOOK.

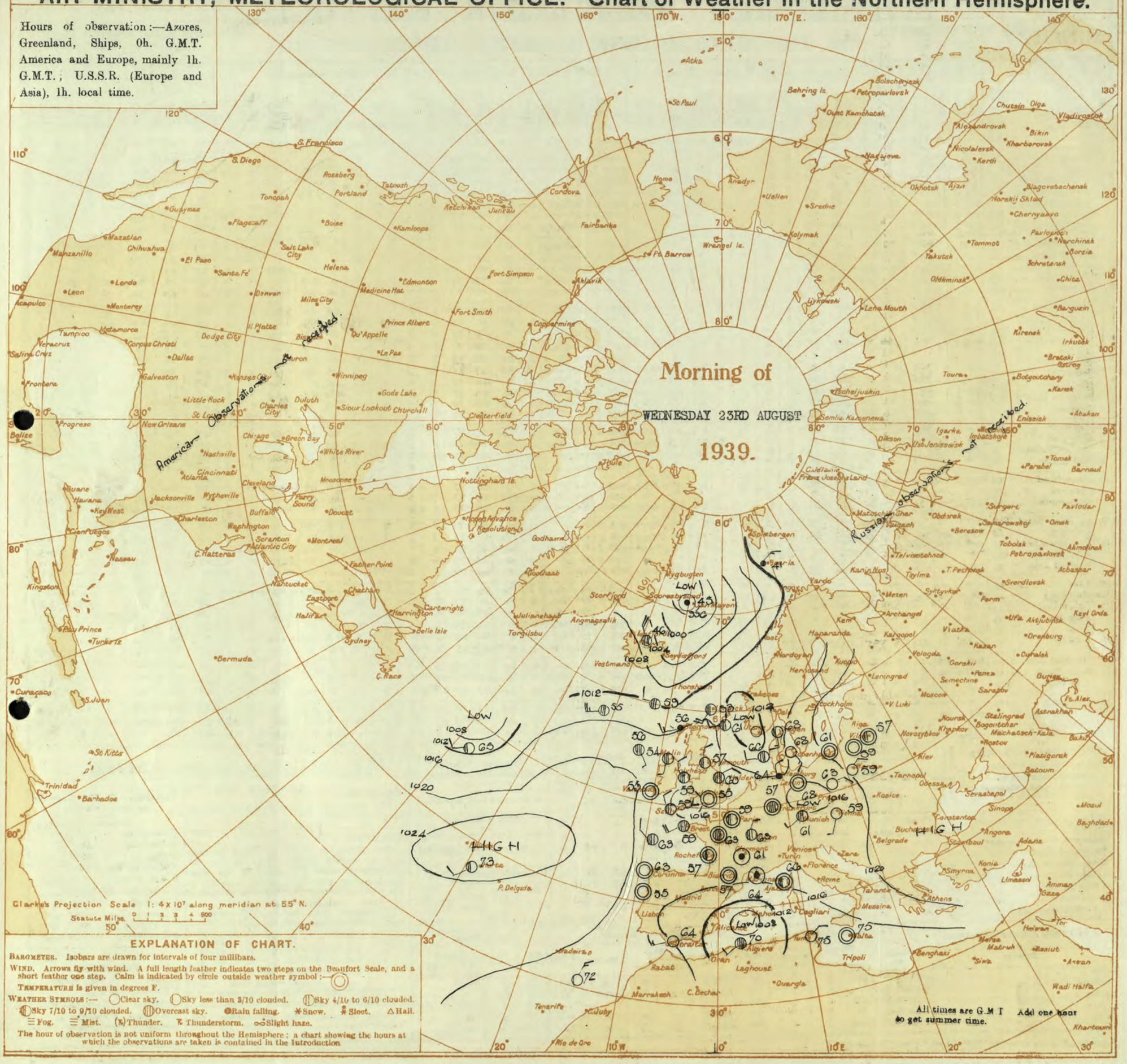
Mainly fair in southern districts; unsettled in the West and North.

Forecasts issued at 0930 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

Wednesday 23rd August, 1939.
No. 28398

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

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	1018·4	+10	-	0	b	55	97	6	·	-	·	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1018·2	+10	S'W	2	o	58	85	7	5	-	-	10	10	1500
	Calshot (Sthmtn.)	8	1018·1	+8	-	0	b	57	97	8	4	-	-	Tr	Tr	2500
	Lympne	346	1018·8	+14	NNW	2	zo	57	97	6	-	-	-	0	0	-
	Manston	154	1018·3	+6	W'S	1	zo	56	92	6	-	1	-	0	1	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1017·1	+6	-	0	bc	63	92	6	5	-	-	4-6	4-6	2500
	Mildenhall	19	1017·6	+10	SW	2	zo	56	97	6	·	-	·	0	0	-
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1015·9	+6	SSE	2	c	60	97	6	5	2	-	7-8	9+	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1018·0	+14	SSE	2	c	60	85	8	5	-	-	7-8	7-8	4000
	Plymouth	82	1016·9	+8	SE'S	2	zo	59	92	6	5	-	-	9+	9+	1500
	The Lizard	240	1016·1	+4	NE'E	1	c	59	97	5	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1016·2	0	NNW	2	c	59	97	7	5	-	-	10	10	1500
	Guernsey	175	1017·3	+4	S'W	2	bc	58	92	8	1	-	-	2-3	2-3	2500
6	Pembroke	142	1016·5	+6	NE	3	cf+	58	97	3	2	1	-	2-3	10	2500
7	Holyhead	26	1016·6	+10	NNW	1	c	59	92	7	5	-	8	4-6	7-8	2500
	Chester (Sealand)	16	1017·0	+4	-	0	zo	60	92	6	5	-	-	10	10	1500
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1017·0	+10	E'N	1	o	60	85	7	-	2	-	10	10	800
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1017·3	+4	N	2	bc	57	92	6	5	-	·	2-3	2-3	1500
11	St. Abbs Head	280	1017·1	+8	-	0	bc	57	75	8	5	4	1	2-3	4-6	2500
	Leuchars	36	1017·2	+10	SE	1	o	59	85	8	5	-	·	10	10	2500
12	Renfrew (Abbots I.)	19	1017·2	+10	NW'N	2	zo	59	92	6	5	-	-	7-8	9+	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1016·8	+6	NW'W	2	c	60	92	7	5	·	-	9+	9+	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1015·4	+4	WSW	3	roro	56	97	7	5	7	-	7-8	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1016·2	+2	S	1	bc	51	92	7	5	7	-	2-3	4-6	1500
16	Lerwick	156	1014·8	0	SSW	4	c	53	97	8	5	7	-	4-6	7-8	800
17	Blacksod Point	18	1018·2	+4	-	0	b	51	92	9	·	·	-	0	0	-
18	Malin Head	84	1017·9	+6	S	1	c	54	92	7	5	-	-	9+	9+	2500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1018·5	+2	-	0	b	55	92	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 23rd August — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 22nd Hrs. (36)
London (Kew)	1020·5	+16	-	0	m	57	92	4	-	-	4	0	9	-	1	*	72	52	42	-	Tr	6·4
Croydon	1020·2	+10	-	0	zo	55	92	6	-	·	3	0	7-8	-	0	*	73	50	44	-	-	7·0
S. Farnborough	1020·2	+8	-	0	zo	49	97	6	-	-	2	0	9	-	0	*	72	43	38	-	Tr	7·4
Boscombe Down	1019·7	+10	-	0	if	55	97	7	-	-	3	0	4-6	-	1	*	67	53	47	Tr	-	4·3
Calshot (Sthmtn.)	1019·6	+10	NE	1	zo	59	97	6	-	-	3	0	9	·	0	1	70	51	51	-	·	5·9
Lympne	1020·0	+10	N	2	c	59	85	6	-	·	6	0	9	-	1	§0	69	57	50	-	-	6·5
Manston	1020·1	+10	NW'W	1	zo	60	92	5	-	-	8	0	7-8	-	0	*	73	53	46	-	-	8·2
Shoeburyness	1020·1	+14	WNW	1	c	59	92	6	-	·	2	0	7-8	-	0	*	75	51	42	-	-	5·2
Felixstowe	1019·9	+14	NW'W	3	zo	59	85	6	-	4	6	0	2-3	-	0	1	73	57	54	Tr	-	[illegible]
Gorleston	1018·8	+10	W'N	3	F	59	97	0	-	·	-	10	10	<150	1	1	68	57	56	-	-	0·2
Mildenhall	1019·6	+10	SW'W	1	zo	56	97	6	-	-	4	0	2-3	-	1	*	69	52	45	Tr	Tr	1·1
Cranwell	1019·4	+16	ENE	1	df	60	97	3	5	-	-	10	10	<150	1	*	69	59	56	Tr	Tr	0·1
Birmingham	1020·1	+14	S	1	bc	54	97	6	5	-	1	4-6	4-6	2500	1	*	68	53	47	Tr	-	0·0
Upper Heyford	1020·3	+10	SW	1	bc	56	92	7	·	·	8	0	4-6	·	1	*	72	52	44	0·1	-	*
Ross-on-Wye	1019·2	+10	SSE	1	c	59	85	7	5	-	·	9+	9+	4000	1	*	69	56	52	0·4	-	0·5
Hartland Point	1017·6	+10	SSE	2	c	59	97	8	5	1	-	4-6	7-8	1500	1	2	67	58	57	1	1	1·1
Bristol	1019·8	+10	SE	2	bc	58	92	8	8	6	9	1	4-6	2500	1	*	72	55	47	2	-	2·4
Portland Bill	1018·8	+10	NW	2	bc	61	85	8	2	-	·	4-6	4-6	4000	0	2	64	59	*	-	-	*
Plymouth	1018·0	+10	C'N	2	c	60	92	8	5	·	·	10	10	1500	1	1	68	58	55	Tr	-	6·2
The Lizard	1017·0	+4	N'E	2	bc	58	97	8	8	·	·	4-6	4-6	2500	1	1	67	56	*	5	0·2	1·5
Scilly (St. Mary's)	1017·5	+10	NE'E	2	c	58	97	6	4	3	-	2-3	9+	1500	1	1	60	57	*	14	6	0·0
Guernsey	1018·3	+6	S'E	1	bc	59	85	8	-	3	-	0	2-3	-	0	1	65	56	51	-	-	10·5
Pembroke	1018·2	+8	SSE	3	o/f	60	97	5	5	-	·	10	10	450	1	1	65	56	*	-	-	1·0
Holyhead	1018·1	+10	N'W	1	c	59	92	7	5	-	-	10	10	4000	1	1	62	58	54	-	-	1·5
Chester (Sealand)	1019·0	+14	-	0	m	61	92	4	5	-	·	10	10	800	1	*	68	60	58	-	-	3·3
Manchester	1019·3	+18	S	1	m	62	92	4	5	-	-	10	10	1500	1	*	71	59	56	-	-	2·0
Spurn Head	1019·1	+6	-	0	c	61	85	7	5	2	-	4-6	10	1500	0	0	65	60	*	-	-	*
Catterick	1019·7	+14	-	0	o/f	58	97	4	5	-	-	10	10	1500	1	*	63	57	53	Tr	-	0·0
Tynemouth	1019·3	+14	-	0	c	56	85	5	5	·	-	9+	9+	2500	1	0	59	54	48	-	-	0·2
St. Abbs Head	1018·3	+12	-	0	c	59	85	8	8	2	-	7-8	9+	1500	0	0	59	55	*	Tr	-	*
Leuchars	1018·8	+14	-	0	qr	57	85	7	5	3	1	7-8	9	800	1	*	62	56	53	-	Tr	0·0
Renfrew (Abbots I.)	1019·3	+14	W'N	1	bc	52	97	8	-	-	6	0	4-6	·	0	*	69	50	46	-	Tr	0·3
Eskdalemuir	1018·8	+6	-	0	c	58	92	6	5	-	-	10	10	2500	1	*	62	53	48	Tr	-	0·0
Point of Ayre	1018·5	+10	-	0	c	60	97	7	5	·	-	10	10	2500	0	0	67	59	*	-	-	1·5
Tiree	1018·7	+6	WSW	2	c/r	56	97	7	5	-	-	7-8	7-8	1500	1	1	63	52	51	-	0·2	12·3
Stornoway	1018·1	+10	SW	2	c	55	97	8	5	7	6	4-6	9	2500	1	1	63	55	*	-	6	8·2
Dalwhinnie	*	+16	E	1	c	48	97	6	4	6	-	4-6	10	800	0	*	64	44	39	-	-	0·0
Aberdeen	1018·9	+14	NW	1	c	55	85	6	-	3	6	0	7-8	-	0	1	65	51	44	-	-	5·1
Wick	1018·1	+16	W	2	c	56	85	7	5	7	8	4-6	7-8	2500	1	1	59	48	*	-	-	*
Lerwick	1017·6	+20	W'N	2	c	53	85	8	5	7	·	7-8	9	1500	1	*	57	51	*	1	0·6	1·4
Blacksod Point	1019·2	+6	-	0	bc	54	92	9	1	-	·	1	2-3	5700	0	0	62	47	*	-	-	*
Malin Head	1019·4	+6	SW	1	c	58	85	8	8	-	4	4-6	9	5700	0	1	61	51	*	-	-	12·7
Aldergrove	1019·3	+6	·	0	bc	44	97	8	1	3	-	Tr	4-6	2500	0	"	65	40	35	-	-	11·8
Birr Castle	1019·3	+8	NW	1	bc	45	97	7	5	-	·	2-3	2-3	2500	0	*	69	44	34	-	-	12·4
Valentia Obsy. †	1018·5	+2	-	0	b	49	92	9	-	·	5	0	1	-	0	1	67	44	40	-	Tr	13·0
Roches Point	1018·7	+10	N'E	2	bc	55	92	8	1	-	·	2-3	2-3	4000	1	1	69	58	*	·	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	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	comoc	c	bccmw	72	52	42	-	Tr	6·4	·	·	6
Croydon	217	omocmo	cbc	bcbwofg	73.	50	44	-	-	7·0	·	·	6
Greenwich (Royal Observatory)	149	c	cbcy	bwczo	76	52	41	-	Tr	5·3	57	77	6
City (Bunhill Row)	—	·	·	·	*	*	*	·	·	*	·	·	·
Westminster (St. James' Park)	27	·	·	·	74	55	49		-	5·5	65	81	·
Regents Pk. (Botanic Gardens)‡	168	·	·	·	74	54	53	-	-	6·0	67	81	·
Camden Square	110	c	bc	·	75	55	49	-	-	*	·	77	·
Kensington	80	cm	bc	·	75	53	46	-	-	6·1	At 18h. 57	75	·
Hampstead Observatory	450	o	bc	bc	72	53	48	-	-	5·1	·	85	·

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 23rd

South Kensington.

Max.	Time.	Min.	Time.
<0·3 whole period			

Kew Observatory.

Max.	Time.	Min.	Time.
0·1	7h 23rd	<0·1	14-19h 22nd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 22nd August — Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 23rd August — 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	1015·7	SSW	2	c	72	1019·3	-	0	c	61	77	57	-	-
Brussels	1015·9	W	2	bc	72	1019·7	NE	2	cf+	61	79	57	-	-
Berlin	1014·7	SE	1	b	84						88		-	
Zürich	1016·0	S	1	tlr	63	1017·5	N	1	zo	63	77	*	4	2
Rome	1015·0	NE	1	c	70	1015·8	E	2	c	72	*	*	2	-

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 24th August. 1939.
No. 28399.

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

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)...	1020.8	−2	–	0	c	71	55	7	1	–	6	2-3	9+	4000
	Croydon	1020.6	+2	–	0	c	73	55	6	1	–	2	1	9+	4000
	S. Farnborough	1020.4	−2	E'N	1	c	70	65	7	1	–	2	2-3	9+	4000
	Boscombe Down	1020.7	+2	SE	1	c	69	65	7	7	–	8	4-6	9	2500
	Calshot (Soton.)	1020.5	+2	SE'E	2	c	71	75	8	2	–	2	2-3	7-8	2500
	Lympne ...	1020.7	0	SE	2	c	69	75	6	2	–	8	4-6	9+	4000
	Manston ...	1020.8	+2	N	2	c	69	55	7	–	–	6	0	9+	–
2	Shoeburyness ...	1020.8	−2	S	2	c	72	65	8	1	–	7	1	7-8	4000
	Felixstowe ...	1020.3	−2	S'W	2	c	71	45	8	2	–	2	1	7-8	2500
	Gorleston ...	1020.6	+2	NNE	3	c	65	92	5	5	–	–	10	10	2500
	Mildenhall ...	1020.5	−2	–	0	bc	71	69	8	2	–	6	1	4-6	4000
	Cranwell ...	1020.1	−6	S'E	1	z$_o$	71	65	6	1	–	–	4-6	4-6	4000
3	Birmingham ...	1020.2	0	SE	2	bc	69	55	8	1	–	1	2-3	4-6	4000
	Upper Heyford	1020.5	−2	SSW	1	c	71	69	8	1	–	6	2-3	7-8	4000
4	Ross-on-Wye ...	1019.7	0	SSW	3	bc	70	65	8	1	–	2	2-3	4-6	4000
5	Hartland Point	1018.8	0	ESE	2	bc	67	75	8	2	6	–	4-6	4-6	2500
	Bristol	1019.2	−10	SSE	2	c	70	69	8	4	7	8	4-6	7-8	2500
	Portland Bill ...	1021.3	+14	E	2	bc	65	85	8	5	–	–	4-6	4-6	4000
	Plymouth ...	1019.7	+6	SSE	3	c	64	75	8	2	–	3	4-6	7-8	1500
	The Lizard ...	1018.2	+8	ESE	3	c	69	85	8	8	2	–	7-8	9+	2500
	Scilly (St. Mary's)	1018.2	+2	NE'E	2	bc	67	85	7	8	3	–	2-3	4-6	4000
	Guernsey ...	1019.7	+2	SSE	2	c	67	75	8	5	7	8	2-3	7-8	2500
6	Pembroke ...	1019.8	+8	SSE	2	c	69	85	7	8	2	–	7-8	10	1500
7	Holyhead ...	1019.3	+6	SW'S	3	c	68	85	6	7	–	–	9	9	2500
	Chester (Sealand)	1019.7	+2	SSE	2	z$_o$	72	55	6	8	–	–	1	1	2500
8	Manchester ...	1019.5	−2	SSW	3	z$_o$	73	65	5	1	–	–	Tr	Tr	4000
10	Spurn Head ...	1021.3	+4	ESE	2	c	64	75	7	5	1	–	2-3	7-8	1500
	Catterick ...	1020.1	+2	SE	1	z$_o$	70	75	6	7	–	–	4-6	4-6	2500
	Tynemouth ...	1020.2	+4	SE	3	bc	63	75	7	5	–	–	4-6	4-6	1500
11	St. Abbs Head...	1019.6	0	SSE	3	c	62	65	8	7	6	–	4-6	7-8	2500
	Leuchars ...	1019.8	+2	E	2	z$_o$	67	75	6	2	–	–	2-3	2-3	2500
12	Renfrew (AbbotsI.)	1019.4	−2	–	0	bc	71	65	7	5	–	8	2-3	4-6	4000
	Eskdalemuir ...	1019.6	+4	S'E	1	c	64	85	6	5	–	–	10	10	800
	Point of Ayre ...	1019.4	+10	SE'S	1	bc	66	85	6	5	–	–	4-6	4-6	2500
13A	Tiree	1019.6	−2	SSE	2	c	62	85	8	8	–	–	7-8	7-8	1500
13B	Stornoway ...	1019.0	+2	SSW	4	c	59	85	9	8	7	–	4-6	9+	2500
15	Dalwhinnie ...	1019.7	0	SW	4	b	65	65	8	4	4	7	1	1	4000
	Aberdeen ...	1019.6	+4	SSE	3	c	65	75	6	–	–	6	0	7-8	–
	Wick	1019.7	+6	SSE	2	c	60	85	8	5	7	8	4-6	7-8	1500
16	Lerwick... ...	1018.4	−2	WSW	3	c	57	75	8	5	9	–	4-6	7-8	2500
17	Blacksod Point...	1018.9	−4	W	2	b	66	55	9	1	–	3	Tr	1	5700
18	Malin Head ...	1019.9	0	E	3	c	59	85	8	4	–	4	2-3	7-8	5700
	Aldergrove ...	1019.3	−6	–	0	bc	69	65	8	1	–	1	Tr	2-3	4000
19	Birr Castle ...	1018.7	−2	NW	1	bc	70	55	7	1	–	–	2-3	2-3	4000
20	Valentia Obsy.†	1018.7	−2	W	2	b	65	75	9	1	–	1	1	1	4000
	Roches Point ...	1019.5	+2	SE	3	b	64	85	9	1	–	–	1	1	4000

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

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)	1020.1	+2	NW'N	2	c	73	55	7	7	3	6	2-3	9	5700	0	*
Croydon	1019.9	−2	–	0	z$_o$	71	65	6	2	6	1	7-8	9+	4000	0	*
S. Farnborough	1019.8	−4	NW'N	2	c	71	55	7	–	–	8	0	9	–	0	*
Boscombe Down	1020.2	−2	–	0	bc	66	75	7	8	3	8	2-3	4-6	2500	0	*
Calshot (Soton.)	1020.0	−2	SW'W	1	c	69	75	8	2	–	2	Tr	7-8	2500	0	1
Lympne	1020.3	0	NNE	2	c	66	75	8	–	7	–	0	9+	–	0	§
Manston	1020.1	−2	N'E	1	c	67	55	7	–	7	–	0	9+	–	0	*
Shoeburyness	1020.2	−4	SE	1	c	68	75	8	7	7	6	2-3	9+	2500	0	*
Felixstowe	1020.4	+4	E	3	z$_o$	66	92	5	5	7	2	1	7-8	5700	0	1
Gorleston	1020.4	0	NE	1	z$_o$	65	85	5	5	–	–	7-8	7-8	2500	0	1
Mildenhall	1019.9	0	–	0	c	73	55	8	8	–	6	1	9	2500	0	*
Cranwell	1019.9	0	ESE	1	c	68	85	7	4	3	2	Tr	7-8	4000	0	*
Birmingham	1020.4	0	SSW	2	bc	68	65	8	–	–	4	0	4-6	–	1	*
Upper Heyford	1020.5	+2	–	0	bc	67	75	8	1	–	8	2-3	4-6	5700	0	*
Ross-on-Wye	1019.9	0	SSE	1	c	67	75	8	–	–	2	0	7-8	–	1	*
Hartland Point	1018.9	+4	SW	3	bc	66	65	8	2	4	2	2-3	4-6	1500	0	2
Bristol	1018.3	−8	S	1	bc	68	65	8	4	7	2	2-3	4-6	2500	0	*
Portland Bill	1021.3	+10	E	1	bc	63	85	8	5	–	–	4-6	4-6	4000	0	2
Plymouth	1019.6	−2	ESE	1	c	65	75	9	7	8	3	Tr	7-8	2500	1	1
The Lizard	1019.1	+2	SE'E	3	bc	62	85	8	8	6	–	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1018.0	−2	SE	2	c	64	92	7	8	8	2	4-6	7-8	1500	1	1
Guernsey	1019.0	0	N	2	c	65	85	7	2	7	4	2-3	9	4000	0	1
Pembroke	1019.3	−4	SE	3	c	63	85	8	8	6	–	7-8	9+	1500	1	1
Holyhead	1019.3	+2	WSW	2	c	63	85	5	5	–	–	7-8	7-8	220	1	1
Chester (Sealand)	1019.4	0	SSE	2	bc	70	65	7	5	–	4	1	2-3	5700	0	*
Manchester	1019.4	+6	S'W	3	z$_o$	70	65	6	–	–	4	0	Tr	–	0	*
Spurn Head	1020.7	−2	E'S	3	bc	61	85	7	5	1	–	2-3	4-6	2500	0	1
Catterick	1019.3	−6	SE'S	1	z$_o$	70	75	6	–	–	–	0	0	–	1	*
Tynemouth	1020.2	0	SSE	2	bc	60	85	9	5	–	–	4-6	4-6	1500	1	1
St. Abbs Head	1019.4	0	SSE	4	c	61	75	8	5	6	–	4-6	9	2500	0	1
Leuchars	1019.4	+2	ESE	2	c	65	75	7	5	–	–	10	10	2500	0	*
Renfrew (AbbotsI.)	1019.1	−2	SW	1	c	68	75	7	5	–	–	7-8	7-8	4000	0	*
Eskdalemuir	1019.0	−2	–	0	e	65	85	6	5	–	–	10	10	800	1	*
Point of Ayre	1019.3	−4	–	0	b	64	92	7	–	–	–	0	0	–	0	0
Tiree	1019.3	0	SSW	1	bc	60	85	8	1	4	5	Tr	2-3	4000	0	1
Stornoway	1019.1	+2	S	3	c	60	85	9	8	7	–	9	9+	2500	1	2
Dalwhinnie	1019.7	−2	SW	2	bc	64	65	8	–	4	8	0	4-6	–	0	*
Aberdeen	1019.7	+2	S'E	3	bc	61	65	7	–	–	2	0	4-6	–	0	1
Wick	1019.8	+2	SSE	2	c	57	92	8	5	4	8	2-3	7-8	1500	1	1
Lerwick	1018.5	+4	S	2	c	55	85	8	5	3	–	4-6	7-8	2500	0	*
Blacksod Point	1017.8	0	N	2	b	63	75	9	1	–	–	Tr	Tr	5700	0	0
Malin Head	1019.2	−4	E	3	b	58	85	8	–	–	1	0	Tr	–	0	1
Aldergrove	1018.8	−6	ENE	1	z$_o$	67	75	6	–	–	–	0	0	–	1	*
Birr Castle	1017.6	−8	WSW	1	bc	72	65	7	5	4	–	4-6	4-6	2500	0	*
Valentia Obsy.†	1018.2	−2	SSW	3	b	67	75	8	2	–	–	1	1	1500	0	1
Roches Point	1018.8	−6	SE	3	bc	63	92	7	5	–	–	4-6	4-6	1500	1	1

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 23rd (37)	13h.—18h. 23rd (38)	18h. 23rd to 1h. 24th (39)	1h.—7h. 24th (40)
London (Kew)	cm$_o$wcy	cy	cylc	ccr$_o$r$_o$m$_o$
Croydon	cm$_o$z$_o$y	cz$_o$cy	cm$_o$bcm$_o$w	m$_o$wom r$_o$
S. Farnborough	cm$_o$c	ccy	cyom$_o$	omfmir$_o$
Boscombe Down	bcc	cz$_o$	bcb,cm$_o$w	cm$_o$wprom
Calshot (Soton.)	bbcm$_o$c	bcc	cir$_o$o	ocm$_o$
Lympne	cm$_o$z$_o$	c	com$_o$	oir$_o$m$_o$m
Manston	cm$_o$	c	com$_o$	om$_o$r$_o$r$_o$
Shoeburyness	bccm$_o$co	bcc	com$_o$	om$_o$dd$_o$D
Felixstowe	bcm$_o$cy	cvm$_o$cm$_o$	cm$_o$	cm$_o$
Gorleston	offcz$_o$	cz$_o$	cz$_o$	cz$_o$
Mildenhall	bm$_o$cm$_o$bc	bcy	cybf$_o$om$_o$	om$_o$w
Cranwell	ofd$_o$d$_o$,bcz$_o$	bcz$_o$bccyc	cbcbm$_o$	b,offd$_o$d$_o$
Birmingham	bc	bc	bbc	bbcf
Upper Heyford	bccy	cycbc	bcbjf	bbccm$_o$f
Ross-on-Wye	cbc	bcc	bcmow	bmwcm
Hartland Point	cbc	bccbc	bccbc	bcc
Bristol	bccbc	cybc	bcbbc	cr$_o$mir$_o$
Portland Bill	bc	bcc	c	c
Plymouth	cpridbc	cbcv	bcvb,cw	cbcw
The Lizard	bcc	cbc	cbw	bbcc
Scilly (St. Mary's)	cfcbc	bcc	cbcb	bw
Guernsey	bcc	c	cprc	cir$_o$
Pembroke	ofm$_o$c	bcc	cbcw	bcifc
Holyhead	cm$_o$	cbccm$_o$	bcoff	offbc
Chester (Sealand)	omwcm$_o$z$_o$by	bz$_o$y	b,c om$_o$w	omofw
Manchester	cmbcm$_o$bz$_o$	bz$_o$	bz$_o$bcm$_o$bf	bffefe
Spurn Head	oc	cbc		oc
Catterick	mm$_o$bcz$_o$	bcz$_o$bz$_o$	bz$_o$m$_o$	m$_o$m id$_o$f
Tynemouth	cbc	bc	bc	bco
St. Abbs Head	c	bcc	cbc	bcbcFf
Leuchars	c,bm$_o$	bm$_o$bcc	cbcw	bccr$_o$cf
Renfrew (AbbotsI.)	bc	bccbc	bccm$_o$wm	ffwFfe,ff
Eskdalemuir	cwcid$_o$c	cz$_o$	cz$_o$om$_o$	om$_o$ffe
Point of Ayre	cbc	bcz$_o$b	bffwb	eFw
Tiree	c	cbc	bcbW	bbcmf
Stornoway	c	cpr$_o$	c,b	b,cw
Dalwhinnie	cbc	cbc	•	c
Aberdeen	bcbbc	bcz$_o$bc	bcc	cofe
Wick	c	c	cbcm$_o$	bcm$_o$
Lerwick	c	c	c	c
Blacksod Point	bc	bc	bc	bc
Malin Head	cbcvc	bc	bc	bcc
Aldergrove	bc	bcm$_o$bm$_o$	bcmf	ffom
Birr Castle	bcy	bc	bcc	c
Valentia Obsy.†	b	bbcb	bc	bcc
Roches Point	bcb	bbc	cid$_o$bc	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.

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.*

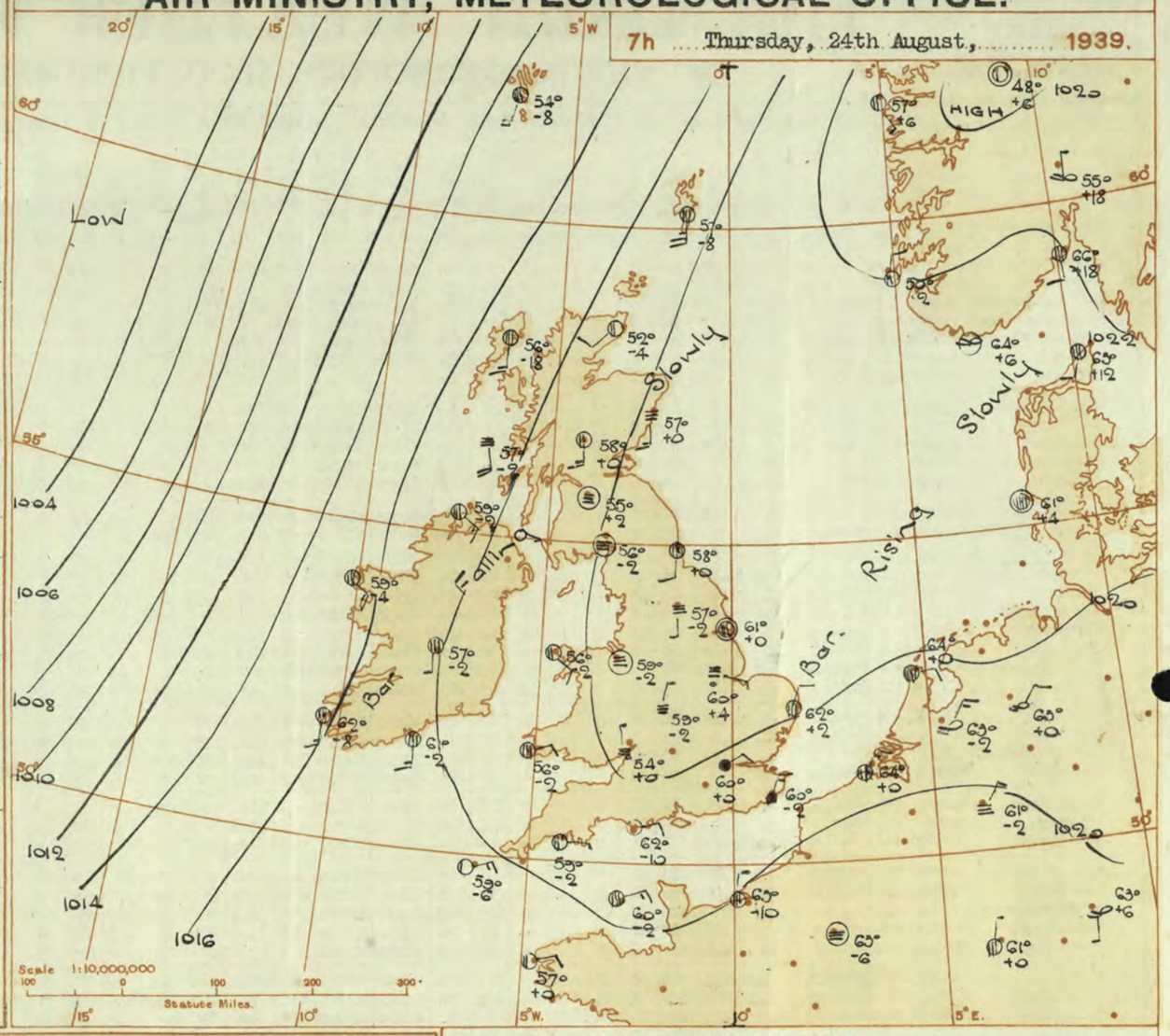
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for August 23rd 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 22nd to 9h. 23rd	Temperature. (°F) Max. 9h.—17h. 23rd	Rainfall. (mm.) Night. 17h. 22nd to 9h. 23rd	Rainfall. (mm.) Day. 9h.—17h. 23rd	Sunshine. (Hrs.) Sunrise to 17h. 23rd	Sunshine. (Hrs.) Sunrise to Sunset. 22nd
1	Tunbridge W.	bbc	cbcc	49	76	—	—	4.8	6.9
	Bournemouth	bcbbc	bbc	54	71	—	—	6.1	5.1
	Ventnor ...	bbc	bbc	56	72	—	—	6.5	3.5
	Southsea ...	bcb	bbc	55	72	—	—	7.7	6.4
	Bognor Regis	bc	bbc	53	70	—	—	7.0	7.9
	Littlehampton	bc	bc	52	72	—	—	7.1	7.9
	Worthing ...	bc	bc	55	71	—	—	6.7	7.6
	Brighton ...	bc	bc	53	71	—	—	6.8	7.1
	Eastbourne† ...	cbcc	cbcc	53	73	—	—	7.5	7.7
	Hastings† ...	bc	bcc	56	71	—	—	7.5	7.6
	Folkestone ...	zc	c	55	73	—	—	6.2	4.6
	Dover ...	bc	bc	57	76	—	—	6.0	6.5
	Deal	cbccb	bbcc	55	73	—	—	5.8	7.8
	Ramsgate ...	zbc	bc	59	71	—	—	7.1	9.2
	Margate ...	bc	bcc	58	70	—	—	6.6	9.2
2	Southend ...	b	bbcc	56	79	—	—	9.6	5.1
	Clacton-on-Sea	wbcz	bc	55	74	—	—	9.0	2.4
	Dovercourt ...	bc	bcm	56	76	—	—	9.6	1.3
	Lowestoft ...	fbc	bzbcm	55	68	—	—	2.9	0.0
	Skegness ...	ogb	b	61	66	—	—	4.7	0.0
	Mablethorpe...	o	bcbbc	61	68	—	—	4.1	0.0
	Cleethorpes ...	ocz	cbcb	60	65	—	—	4.6	0.0
3	Leamington S.	c	c	54	73	—	—	5.8	0.2
4	Cheltenham†	wbc	bcc	55	71	—	—	8.3	0.3
5	Bath	bcb	bccbc	57	71	—	—	6.1	3.2
	Weymouth ...	b	bc	60	71	—	—	8.3	2.6
	Jersey ...	bc	bcc	57	73	—	—	9.6	12.2
	Torquay ...	wcbc	b	60	66	—	—	9.2	6.1
	Falmouth ...	c	c	57	65	—	—	3.3	0.1
	Penzance ...	cb,c	cb,cb	58	76	Tr.	—	4.6	0.6
	St. Ives ...	c	c	57	66	—	—	4.5	0.0
	Bude... ...	bc	bc	56	70	—	—	8.7	0.2
	Ilfracombe ...	cbcb	bccbc	59	70	—	—	8.7	1.7
6	Aberystwyth	prbcc	bcc	59	68	6	—	3.8	1.8
7	Llandudno ...	bcb	bbc	59	72	—	—	7.4	0.0
	Colwyn Bay...	cbbcb	bcc	59	74	Tr.	—	7.9	0.0
	Rhyl	zobcb	bzo	60	76	—	—	8.9	0.0
8	Wallasey ...	cbcb	b	60	75	—	—	8.5	0.0
	Southport ...	czbcz	byz	61	76	—	—	7.5	0.8
	Blackpool ...	cm	bcm,b	61	74	Tr.	—	5.7	2.9
	Morecambe ...	cz	cz	60	71	—	—	0.2	1.7
9	Ilkley... ...	oczbc	b	60	73	—	—	5.4	0.0
	Harrogate ...	cbc	b	58	72	—	—	5.4	0.4
10	Berwick-on-T.								
11	Dunbar ...	cmo	cmo	56	65	—	—	3.2	0.0
12	Troon... ...	oco	oc	55	63	—	—	1.6	0.1
	Douglas ...	cm	bcz	57	63	—	—	4.3	3.8

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 24th August, 1939.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind light easterly; slight local rain or drizzle today; fair later apart from extensive fog at night persisting locally on coasts; warm and close.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind light east to southeast; fair, but extensive fog at night, clearing very slowly in some places; warm and close.
9 N. Midlands ... 10 N.E. England	As 1 - 4.
11 S.E. Scotland 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 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind southeast to south, moderate or fresh locally; fair but local coastal mist or fog; warm.

GENERAL INFERENCE.

A large anticyclone covers most of Europe and a very slow moving trough of low pressure lies off Ireland. The weather in the west will be fair but in all eastern and midland districts there will be much persistent low cloud and fog with slight rain at first in the southeast.

FURTHER OUTLOOK.

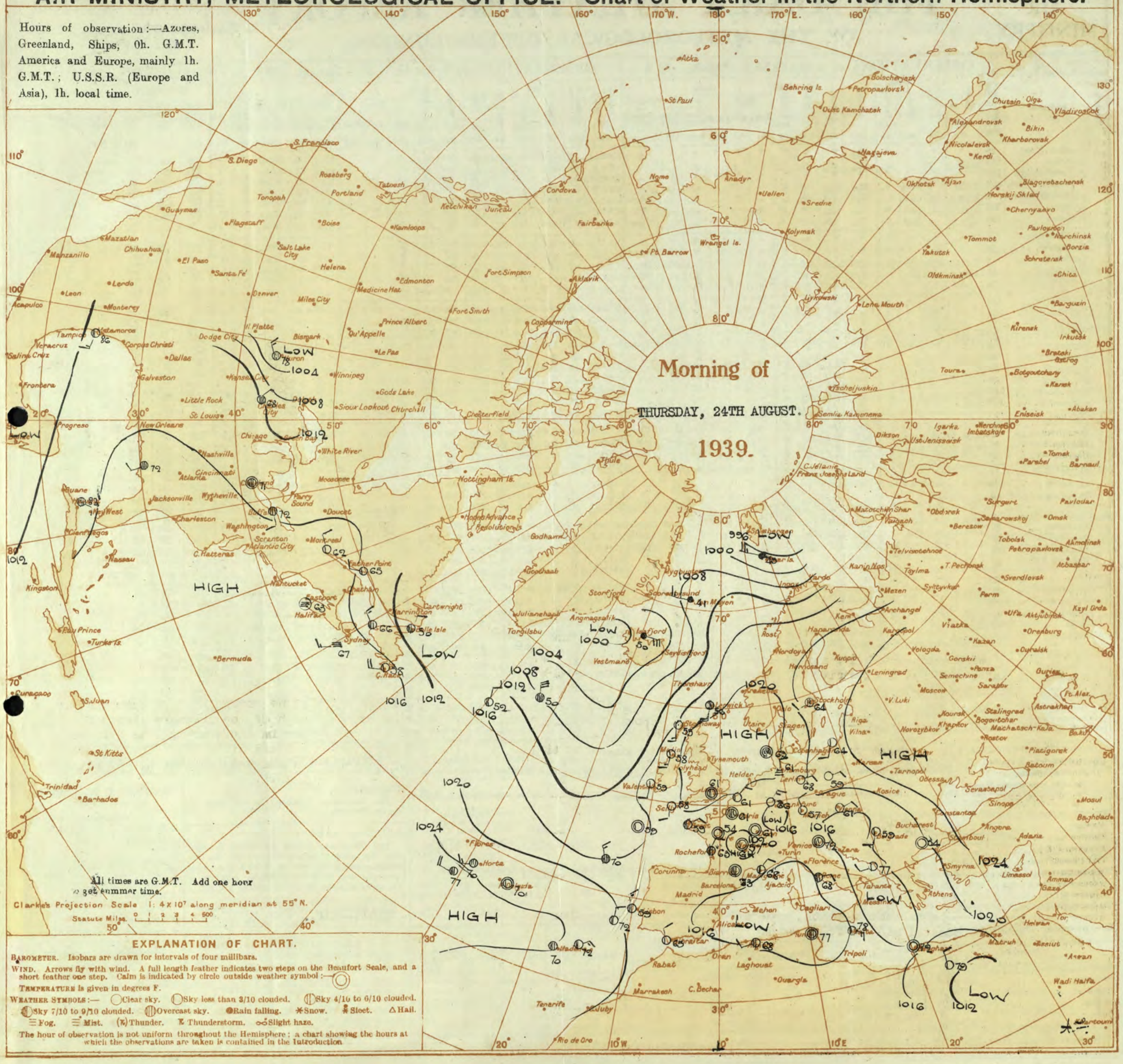
Mainly fair.

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.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 24th August, 1939.
No. 28399.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1020.2	-2	–	0	Zo	61	92	6	–	3	–	0	4-6	–
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1020.1	-4	NNE	1	Zo	60	85	6	–	7	–	0	10	–
	Calshot (Sthmtn.)	8	1019.5	-6	NW'W	1	c/r	64	85	6	–	2	–	10	10	4000
	Lympne	346	1020.2	-2	NNE	3	Zo	60	97	5	5	–	–	10	10	450
	Manston	154	1020.1	0	ENE	2	Zo	63	92	5	5	–	–	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1020.2	-2	N'E	2	c	61	85	6	5	–	–	10	10	2500
	Mildenhall	19	1020.4	-2	SE	1	Zo	60	97	5	5	–	–	10	10	450
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1019.5	0	E	3	bc	60	85	8	5	–	–	4-6	4-6	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1019.8	+6	NE	1	c	62	85	8	5	–	–	10	10	4000
	Plymouth	82	1019.6	-4	ESE	1	c	55	92	7	–	3	–	0	9	–
	The Lizard	240	1019.0	-4	E'S	3	b	59	92	8	–	–	–	0	0	–
	Scilly (St. Mary's)	163	1019.2	+4	S'E	2	b	58	92	8	–	–	–	0	0	–
	Guernsey	175	1018.8	-8	E	1	c	61	97	7	2	7	–	4-6	9	2500
6	Pembroke	142	1020.3	+4	S'E	1	bc	60	92	8	5	–	–	4-6	4-6	2500
7	Holyhead	26	1020.0	+2	SE'S	1	bcf	54	97	2	5	–	–	4-6	4-6	<150
	Chester (Sealand)	16	1020.5	0	WSW	1	Zo	61	97	5	5	–	–	10	10	450
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29														
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1020.7	0	S	2	bc	59	97	6	5	–	–	4-6	4-6	1500
11	St. Abbs Head	280	1019.9	-4	SSE	4	bc	56	92	8	5	–	–	4-6	4-6	2500
	Leuchars	36	1020.0	0	NW	1	bc	56	97	7	5	–	–	4-6	4-6	4000
12	Renfrew (Abbots I.)	19	1019.9	+2	–	0	m	60	97	4	5	–	–	9+	9+	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1019.8	0	–	0	b	55	97	7	–	–	–	0	0	–
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1018.8	-4	S	3	b	55	92	8	5	–	–	Tr	Tr	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1019.8	-4	SW	1	bc	45	97	6	5	4	–	2-3	4-6	800
16	Lerwick	156	1019.2	-2	S	4	c	58	97	7	5	7	–	4-6	7-8	1500
17	Blacksod Point	18	1016.7	-6	S	2	b	59	85	9	1	–	–	Tr	Tr	5700
18	Malin Head	84	1018.2	-2	S	3	b	58	85	7	4	–	–	Tr	Tr	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1017.6	-6	S	3	bc	59	97	8	5	–	–	4-6	4-6	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. August 24th

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)	1019.6	-2	NE'E	2	roro	61	85	5	5	–	–	10	10	1500	1	*
	Croydon	1019.8	0	NE'E	2	roro	60	97	4	5	–	–	10	10	450	1	*
	S. Farnborough	1019.3	-2	–	0	m/r	61	92	4	5	–	–	10	10	450	0	*
	Boscombe Down	1019.4	0	E'N	3	m	60	97	4	–	–	–	10	10	<150	0	*
	Calshot (Sthmtn.)	1019.0	+2	ENE	2	Zo	63	92	6	5	–	–	10	10	5700	0	2
	Lympne	1019.2	-2	NE'N	3	iro	60	97	4	–	2	–	10	10	220	1	§3
	Manston	1019.4	-2	NE'N	3	iro	61	92	5	5	–	–	10	10	800	1	*
2	Shoeburyness	1019.9	-2	NE'E	3	DD	62	92	5	5	–	–	10	10	450	1	*
	Felixstowe	1020.1	-2	N'E	3	Zo	62	85	5	5	–	–	10	10	1500	0	1
	Gorleston	1020.3	+2	NE'N	2	c	62	85	6	5	–	–	10	10	2500	0	1
	Mildenhall	1020.5	+2	NE'N	1	Zo	60	92	5	5	–	–	10	10	1500	1	*
	Cranwell	1020.7	+4	E'S	1	df	60	97	3	5	–	–	10	10	450	1	*
3	Birmingham	1020.4	-2	NNE	1	bcf	59	85	3	–	9	9	0	4-6	–	1	*
	Upper Heyford	1020.6	-2	NE'E	3	f+	55	97	3	3	–	–	10	10	<150	0	*
4	Ross-on-Wye	1020.1	0	NNW	1	m	54	97	4	–	7	–	0	9	–	1	*
5	Hartland Point	1018.2	-4	NE	3	c	61	75	8	5	–	1	4-6	7-8	2500	0	2
	Bristol	1018.9	-2	SE	1	iro	58	92	6	5	2	–	7-8	10	1500	0	*
	Portland Bill	1018.7	-10	ENE	2	c	62	85	8	5	–	–	10	10	4000	0	2
	Plymouth	1018.7	-2	E	1	c	59	85	7	5	3	–	4-6	9	5700	1	1
	The Lizard	1017.8	-6	ENE	3	c	59	92	8	8	6	–	7-8	7-8	1500	0	2
	Scilly (St. Mary's)	1017.9	-6	ENE	3	b	59	97	8	5	–	–	1	1	4000	1-	2
	Guernsey	1018.2	-2	ENE	3	c/r	60	85	7	8	3	–	7-8	9	2500	0	2
6	Pembroke	1019.5	-2	E'N	2	c/f	56	97	6	8	6	–	4-6	7-8	2500	1	0
7	Holyhead	1019.2	-2	SE	2	bc	56	97	7	5	4	–	1	2-3	4000	1	0
	Chester (Sealand)	1020.2	-2	–	0	of	59	97	3	5	–	–	10	10	450	1	*
8	Manchester	1020.5	+2	–	0	bf	49	97	3	–	–	–	0	0	–	1	*
10	Spurn Head	1020.7	0	–	0	c	61	85	7	5	2	–	7-8	9+	800	0	0
	Catterick	1020.9	-2	S	1	of	57	97	3	5	–	–	10	10	800	1	*
	Tynemouth	1020.5	0	S	2	o	58	97	5	5	–	–	10	10	1500	1	1
11	St. Abbs Head	1019.9	0	SSE	4	F+	55	97	1	–	–	–	10	10	<150	1	2
	Leuchars	1020.0	+2	WSW	1	f+	54	97	3	–	–	–	10	10	<150	1	*
12	Renfrew (Abbots I.)	1019.8	+2	–	0	cf–	55	97	3	5	–	–	7-8	7-8	1500	0	*
	Eskdalemuir	1020.2	-2	–	0	f+	56	97	2	–	–	–	10	10	<150	1	*
	Point of Ayre	1019.8	+2	–	0	bcfs	57	97	3	–	–	6	0	4-6	–	1	0
13A	Tiree	1017.4	-2	SSE	4	F+	57	97	1	–	–	–	10	10	<150	0	3
13B	Stornoway	1017.8	-18	S	3	c	56	97	8	5	4	4	Tr	7-8	4000	1	2
15	Dalwhinnie	1019.8	0	S	3	bc	58	75	6	4	6	1	4-6	4-6	1500	0	*
	Aberdeen	1020.1	0	S	3	f	57	97	3	–	–	–	10	10	<150	0	1
	Wick	1018.5	-4	SW	2	bc	52	97	5	5	1	–	2-3	2-3	800	1	1
16	Lerwick	1018.4	-8	S'E	5	c	57	97	8	8	7	–	7-8	9+	800	0	*
17	Blacksod Point	1015.6	-4	SE	3	c	59	92	8	5	–	–	7-8	7-8	2000	0	2
18	Malin Head	1017.6	-2	SE	3	c	59	92	7	8	8	–	4-6	9	2500	0	1
	Aldergrove	1018.8	-2	SW	2	m/f	57	97	4	5	–	–	10	10	450	1	"
19	Birr Castle	1018.0	-2	S	1	c	57	97	7	5	–	–	10	10	2500	0	*
20	Valentia Obsy. †	1015.9	-8	SSE	3	c	62	85	8	5	–	–	10	10	1500	0	1
	Roches Point	1017.4	-2	SSE	3	c	61	97	7	5	–	–	7-8	7-8	1500	1	1

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 23rd Hrs. (36)
1	London (Kew)	73	61	57	–	0.1	8.3
	Croydon	76	60	54	–	0.1	7.0
	S. Farnborough	73	58	51	–	Tr	7.9
	Boscombe Down	70	55	54	–	0.1	6.1
	Calshot (Sthmtn.)	74	62	60	–	Tr	8.3
	Lympne	72	60	58	–	3	6.4
	Manston	71	60	56	–	1	5.9
2	Shoeburyness	72	62	56	–	0.5	8.6
	Felixstowe	78	61	61	–	–	9.8
	Gorleston	67	61	60	–	–	0.8
	Mildenhall	76	58	53	–	Tr	11.4
	Cranwell	74	56	55	Tr	Tr	7.6
3	Birmingham	71	55	41	–	–	7.8
	Upper Heyford	72	53	48	–	–	*
4	Ross-on-Wye	72	51	46	–	–	7.5
5	Hartland Point	69	57	54	–	–	10.3
	Bristol	70	55	47	–	Tr	6.9
	Portland Bill	65	60	*	–	–	*
	Plymouth	67	54	51	0.1	Tr	6.3
	The Lizard	66	56	*	–	–	*
	Scilly (St. Mary's)	68	55	*	–	–	5.9
	Guernsey	71	59	59	–	Tr	10.9
6	Pembroke	65	55	*	–	–	3.6
7	Holyhead	69	53	46	–	Tr	4.9
	Chester (Sealand)	74	57	55	–	–	10.4
8	Manchester	74	46	44	–	–	9.0
10	Spurn Head	65	61	*	–	–	4.3
	Catterick	72	57	54	–	Tr	5.2
	Tynemouth	*	57	53	–	–	7.4
11	St. Abbs Head	63	54	*	–	Tr	*
	Leuchars	70	58	45	–	Tr	5.4
12	Renfrew (Abbots I.)	73	51	47	–	–	9.0
	Eskdalemuir	66	51	50	Tr	–	0.0
	Point of Ayre	69	51	*	–	–	4.6
13A	Tiree	64	50	41	–	–	6.2
13B	Stornoway	61	53	*	0.2	–	1.4
15	Dalwhinnie	68	50	40	–	–	10.0
	Aberdeen	65	56	48	–	–	9.2
	Wick	60	43	*	–	–	*
16	Lerwick	60	54	*	–	–	8.8
17	Blacksod Point	61	46	*	–	–	*
18	Malin Head	61	55	*	–	–	7.9
	Aldergrove	72	51	52	–	–	10.6
19	Birr Castle	73	50	45	–	–	11.1
20	Valentia Obsy. †	69	58	52	–	–	12.2
	Roches Point	67	60	*	–	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.	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	cmowcy	cy	cycrorom	73	61	57	–	0.1	8.3	*	*	5
Croydon	217	cmozoy	czoy	mowom roro	76	60	54	–	0.1	7.0	*	*	5
Greenwich (Royal Observatory)	149	c	c	cror	74	59	52	–	1	3.6	63	92	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	5.6	*	*	*
Westminster (St. James' Park)	27	*	*	*	76	61	59	0.6		6.0	75	62	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	75	60	54	–	1	*	56	94	*
Camden Square	110	bc	bc	*	75	60	58	–	1	*	*	92	*
Kensington	80	bc	bc	*	77	61	59	–	0.6	7.2	50 At 18h	91	*
Hampstead Observatory	450	bc	bc	orm	73	57	56	–	1	7.1	*	95	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
Less than 0.3 whole period.			

Kew Observatory Max.	Time.	Min.	Time.
0.1	7-8h 23rd	<0.1	14-15h 23rd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. August 23rd Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. August 24th 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	1018.1	NNW	3	Zo	63	1017.0	–	0	m	63	68	61	18	–
Brussels	1018.0	NNE	3	Z	72						79		–	
Berlin	1027.3	N	1	bc	72	1020.0	ESE	2	Zo	68	88	63	2	–
Zurich	1016.6	NE	1	c	68	1017.1	N	1	Zo	63	75	59	–	Tr
Rome	1016.3	WSW	3	c	75						*	*	14	

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.

Beau-fort No.	Statute m/h.	Beau-fort No.	Statute m/h.	Beau-fort 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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 25th August, 1939.
No. 28400.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018.5	-6	NNE	2	zo	65	75	6	5	3	-	7-8	9+	1500
	Croydon	1018.8	-4	NE'E	2	zo	65	85	6	5	3	-	7-8	9+	1500
	S. Farnborough	1018.0	-14	NE'N	2	zo	69	75	6	7	3	-	4-6	9	2500
	Boscombe Down	1018.4	-6	ENE	2	zo	66	75	5	5	7	-	4-6	10	1500
	Calshot (Soton.)	1017.6	-10	NNW	2	zo	69	75	6	7	3	-	4-6	7-8	4000
	Lympne	1017.5	-16	NNE	4	c	66	85	6	5	-	6	4-6	9	2500
	Manston	1018.0	-10	NE	4	zo	64	85	6	5	-	-	10	10	800
2	Shoeburyness	1018.3	-10	NE	3	c	67	75	7	5	7	-	9	10	2500
	Felixstowe	1018.7	-6	ENE	3	zo	66	85	6	5	1	-	9+	10	1500
	Gorleston	1019.1	-4	NNE	3	c/d	65	85	6	5	-	-	10	10	1500
	Mildenhall	1018.9	-8	N	1	zo	64	85	6	5	2	-	7-8	10	1500
	Cranwell	1019.9	-4	E'N	1	zo	63	85	6	5	-	-	10	10	1500
3	Birmingham	1020.1	-2	E	2	m	59	92	4	6	-	-	10	10	450
	Upper Heyford	1019.6	-8	ENE	2	m	61	92	4	-	2	-	10	10	220
4	Ross-on-Wye	1018.5	-6	SE	1	zo	68	75	6	2	7	-	Tr	10	2500
5	Hartland Point	1017.7	0	SE	2	o/pr	64	92	7	8	4	-	7-8	9	1500
	Bristol	1017.3	-10	SE'E	3	zo	71	75	7	8	3	-	4-6	7-8	2500
	Portland Bill	1018.0	-6	E	2	pr	65	92	6	5	-	-	10	10	1500
	Plymouth	1018.0	-4	SE'S	2	c	66	75	8	5	-	-	10	10	4000
	The Lizard	1017.5	0	SE'E	3	c	69	85	8	8	6	-	4-6	7-8	2500
	Scilly (St. Mary's)	1017.2	-2	SE	3	bc	67	85	8	8	4	-	4-6	4-6	2500
	Guernsey	1017.7	-6	N	2	c/d	59	92	6	8	2	-	9	10	800
6	Pembroke	1018.2	-6	S'E	3	bc	66	85	6	2	7	-	2-3	4-6	2500
7	Holyhead	1018.7	-2	NWN	1	c	64	85	7	1	9	7	Tr	9+	2500
	Chester (Sealand)	1018.9	-6	S'E	2	zo	69	75	6	5	1	-	Tr	10	4000
8	Manchester	1019.3	-2	S'W	2	zo	68	75	7	4	3	8	9+	9+	1500
10	Spurn Head	1020.2	-2	E	2	c	64	85	6	5	2	-	4-6	9+	800
	Catterick	1019.6	-6	SE'S	1	zo	65	85	6	5	2	-	4-6	10	1500
	Tynemouth	1020.2	-2	SE	2	c	61	92	6	8	-	-	7-8	7-8	1500
11	St. Abbs Head	1018.7	-8	SSE	5	c	62	85	7	5	6	-	4-6	7-8	1500
	Leuchars	1019.1	-6	E	2	zo	66	85	6	-	-	-	0	0	-
12	Renfrew (AbbotsI.)	1018.6	-8	W'S	2	zo	70	65	6	2	-	-	7-8	7-8	2500
	Eskdalemuir	1018.5	-2	SSW	2	bc	69	65	6	7	-	-	4-6	4-6	2500
	Point of Ayre	1018.9	-6	S	4	bc	65	85	5	-	3	6	0	4-6	-
13A	Tiree	1017.2	0	SE'S	4	o	60	92	6	5	-	-	10	10	1500
13B	Stornoway	1017.5	-6	SSE	4	c	63	85	6	1	4	7	2-3	10	2500
15	Dalwhinnie	1018.1	-10	S	4	bc	69	55	7	4	6	-	4-6	4-6	2500
	Aberdeen	1020.0	0	SSE	3	c	62	85	6	6	-	-	9	9	800
	Wick	1018.3	-4	S	3	c	60	92	6	5	4	1	2-3	7-8	1500
16	Lerwick	1018.6	0	S'W	4	F+	55	97	1	-	-	-	10	10	<150
17	Blacksod Point	1014.5	-8	S	3	bc	67	75	7	2	-	-	2-3	2-3	800
18	Malin Head	1016.4	-4	S	4	zo	69	85	7	8	-	1	2-3	4-6	5700
	Aldergrove	1017.7	-8	S	2	bc	68	65	7	1	-	-	4-6	4-6	2500
19	Birr Castle	1016.3	-4	S	3	c	68	65	8	5	7	-	4-6	7-8	2500
20	Valentia Obsy.†	1015.2	-4	S'E	4	zo	67	75	6	5	-	-	9+	9+	1500
	Roches Point	1017.0	-2	SE	3	bc	65	85	9	2	-	5	2-3	4-6	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High. (25)	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)	Weather 7h.–13h. 24th (37)	Weather 13h.–18h. 24th (38)	Weather 18h. 24th to 1h. 25th (39)	Weather 1h.–7h. 25th (40)
London (Kew)	1016.8	-6	NNE	2	zo	67	65	6	5	-	-	10	10	1500	1	*	crocmcm	czo	czoc	como
Croydon	1016.9	-6	ENE	2	c	66	85	6	5	7	-	4-6	10	5700	1	*	omroroc	cmzo	cidoomo	omom
S. Farnborough	1016.4	-8	N'E	2	zo	66	75	6	5	-	-	10	10	4000	0	*	idoczo	cbcczo	czocmo	cmoom
Boscombe Down	1016.5	-6	ENE	2	zo	66	75	5	5	3	-	1	2-3	5700	0	*	omcmo	cmobcmo	bmcmbcm	cmoiroomo
Calshot (Soton.)	1016.2	-4	E'S	2	o/pr	67	85	6	5	-	-	10	10	1500	0	§ 1	cmo	cmprocm	cmocm	cmfgcmo
Lympne	1016.4	-4	NNE	2	zo	64	92	5	5	-	-	10	10	450	0	1	omrocmo	cmo	cmobmo	bcmoomo
Manston	1016.3	-6	NE'N	2	o/r	63	97	5	5	-	-	10	10	450	1	*	cirocmo	cirocmo	bcolmo	dcomodo
Shoeburyness	1017.0	-4	NE	3	c	65	85	6	5	-	-	10	10	1500	0	*	DDcmoc	cdcmo	cmoomo	moo
Felixstowe	1017.1	-12	NE'E	3	zo	66	85	6	5	-	-	10	10	1500	0	2	circmo	cmoircmo	mmo,tl	otl,iro
Gorleston	1017.4	-6	NNE	3	c	65	85	6	5	3	-	4-6	7-8	2500	0	2	czoido	czo	czotlR	otlRczo
Mildenhall	1017.3	-6	E'N	2	zo	65	85	6	5	2	-	7-8	10	2500	1	*	omocmo	eidocmo	cmotlr	irotlomo
Cranwell	1013.2	-4	ENE	1	zo	63	85	6	5	7	-	4-6	7-8	2500	1	*	odcdofom	omoc	cbcmo	cproomo
Birmingham	1018.3	-8	E	1	c	61	85	5	5	-	-	9+	9+	800	1	*	fbcom	omc	c	cf
Upper Heyford	1018.0	-4	N	1	m	62	85	4	5	3	-	7-8	10	800	1	*	ofmdom	ammocm	cmbcm	cmofcmo
Ross-on-Wye	1017.1	-6	E	2	zo	65	85	6	-	7	-	0	9	-	1	*	cmcpocm	czobcczo		cmoff
Hartland Point	1016.1	-4	SSE	2	c	63	85	8	8	2	-	7-8	9+	1500	0	2	ebccp	cp	cro	c
Bristol	1016.8	-4	ENE	2	zo	66	85	6	2	7	-	1	9+	2500		*	croczo	czo	cbcmow	bccmomw
Portland Bill	1016.2	-12	NW	2	o	63	92	6	5	-	-	10	10	1500	1	2	opr	opr	bc	bcozo
Plymouth	1016.4	-6	SSE	1	ic	62	92	7	5	-	-	10	10	4000	1	1	ccirc	cirooc	cmooiromo	cirooomo
The Lizard	1015.9	-8	E'S	2	bc	64	85	8	4	3	-	2-3	4-6	2500	0	1'	cbcc	bc	bcc	cbcc
Scilly (St. Mary's)	1015.7	-10	SE	2	bc	63	92	7	8	6	-	2-3	4-6	1500	0	2	bccbc	bccbc	bccbc	bcw
Guernsey	1015.5	-10	N	2	dd	60	97	4	5	-	-	10	10	<150	0	2	cid	edod	obz	oczbfg
Pembroke	1016.5	-8	E	1	zo	64	85	6	5	7	-	4-6	7-8	2500	0	1	czobc	bczoc	cmo	cmof
Holyhead	1017.0	-10	NNE	2	bc	64	85	8	1	3	8	Tr	4-6	4000	0	0	bcc⊕	cbc	bcmc	cmowb
Chester (Sealand)	1017.6	-8	SE	2	zo	65	85	6	5	7	-	4-6	9	4000	0	*	ofwmcmfg	czmo	cbcmom	offw
Manchester	1017.9	-8	S'W	1	zo	66	85	5	5	7	-	7-8	10	2500	1	*	bfbcmczo	ezomo	cmom	bcmcdomw
Spurn Head	1018.2	-10	NE	2	c	61	85	6	5	2	-	4-6	7-8	800	0	1	c	c	codo	olrc
Catterick	1018.2	-8	-	0	zo	65	85	6	5	7	9	4-6	7-8	1500	1	*	fmodcmo	cmo	cmom	cirorr
Tynemouth	1019.1	-6	SE	2	c	60	97	6	5	-	-	9+	9+	2500	1	1	omc	c	coffoc	cmoff
St. Abbs Head	1018.0	0	SSE	4	bc	59	97	6	7	3	2	2-3	4-6	2500	0	2	moc	lbcmo	moc	mfcF
Leuchars	1018.0	0	E	2	zo	63	85	6	5	-	-	4-6	4-6	2500	0	*	ffcbmo	bbcmo	bcmocmow	cmooffmw
Renfrew (AbbotsI.)	1017.8	-2	W'S	3	bc	68	65	8	1	-	5	Tr	4-6	4000	0	*	cffbcmo	bcmbc	bccmofg	cwmffm
Eskdalemuir	1017.5	-2	SSW	1	bc	65	85	7	-	7	6	0	4-6	-	0	*	offebc	bczobc	bbccmo	cmo
Point of Ayre	1017.6	-4	-	0	c	62	92	7	-	4	9	0	9+	-	0	0	ffbc	bcffc	c	bffw
Tiree	1015.9	-6	SE'S	3	bc	61	85	7	1	7	6	Tr	4-6	4000	0	2	fmcmo	cbcb	bcb	bbcw
Stornoway	1017.0	-2	SSW	5	c	61	85	6	2	-	7	2-3	10	4000	0	3	c	cbc	c	c
Dalwhinnie	1017.4	-2	S	4	bc	65	65	8	4	-	7	2-3	4-6	4000	0	*	bc	bc		c
Aberdeen	1019.3	0	S'E	3	c	60	92	6	6	-	-	9+	9+	450	0	1	ofefec	cbcc	como	ocmo
Wick	1016.8	-8	SSE	4	c	62	85	6	5	1	-	4-6	7-8	1500	0	2	Fcmo	bccmo	bccmo	cmobc
Lerwick	1018.6	+2	SSW	5	o	56	97	6	5	-	-	10	10	450	0	*	oFFe	oFmo	oc	c
Blacksod Point	1013.6	-10	S	2	bc	67	75	7	-	3	-	0	2-3	-	0	2	c	o	bc	bc
Malin Head	1015.5	-4	S	2	bc	67	65	8	-	-	4	0	2-3	-	0	1	bczozbc	bc	bccbc	c
Aldergrove	1016.6	-6	SE	2	c	67	65	6	-	7	7	0	10	-	1	*	ombccbc	bcc	cb	bwb,cmo
Birr Castle	1015.1	-12	S	3	c	70	55	8	1	-	6	2-3	7-8	2500	0	*	c	cy	c	c
Valentia Obsy.†	1013.7	-4	SSE	4	bc	65	75	8	8	7	-	2-3	4-6	2500	0	1	cprocczo	czobc	bcc	cbc
Roches Point	1015.3	-10	SE	3	bc	64	92	8	1	-	5	1	2-3	4000	0	2	cidobc	bc	bcbw	bwbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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.*

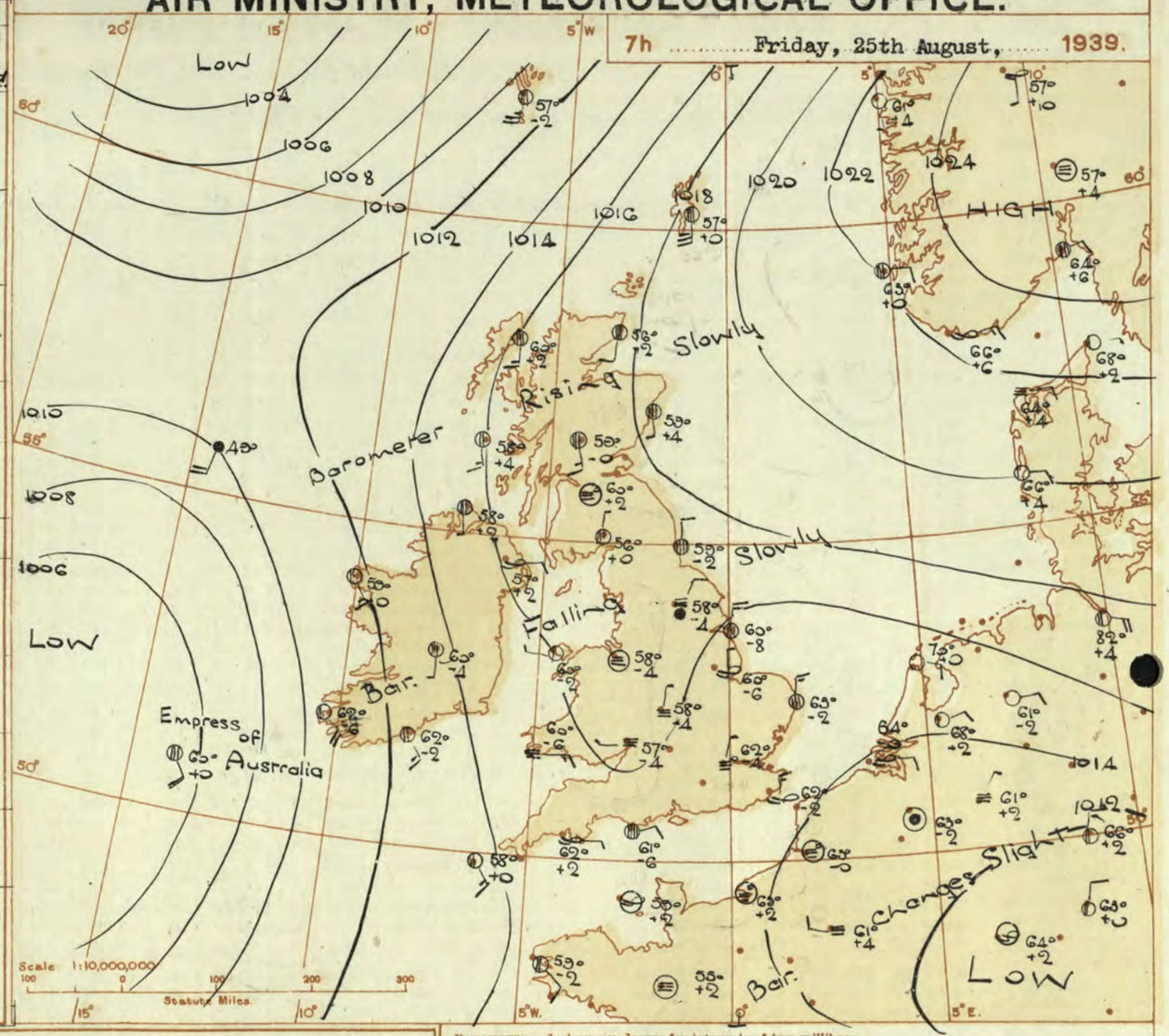
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 24th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 23rd to 9h. 24th	Temperature. (°F) Max. 9h.—17h. 24th	Rainfall. (mm.) Night. 17h. 23rd to 9h. 24th	Rainfall. (mm.) Day. 9h.—17h. 24th	Sunshine. (Hrs.) Sunrise to 17h. 24th	Sunshine. (Hrs.) Sunrise to Sunset. 23rd
1	Tunbridge W.	co	oco	59	70	0·5	-	1·5	4·8
	Bournemouth	o	ocr	59	70	-	2	1·0	6·1
	Ventnor ...	pocz	bccz	62	72	0·3	-	3·5	6·5
	Southsea ...	oc	cbcc	62	72	-	-	2·5	7·7
	Bognor Regis								
	Littlehampton	cbc	bcc	61	73	0·3	-	2·5	7·1
	Worthing ...	ocbc	bcco	61	71	Trace	-	3·1	6·7
	Brighton ...	cbc	bcc	61	71	0·6	-	1·5	8·3
	Eastbourne†...	oc	co	61	69	0·2	-	0·3	7·5
	Hastings† ...	ocbc	coodo	60	71	0·3	Trace	1·9	7·5
	Folkestone ...	moco	como	61	69	6	-	0·5	6·2
	Dover ...	o	o	62	69	5	-	0·0	6·0
	Deal	c	c	61	67	2	-	0·0	5·8
	Ramsgate ...	o	ocd	61	66	1	Trace	0·1	7·1
	Margate ...	c	cdo	61	65	0·3	Trace	0·1	6·6
2	Southend ...	oz	o	61	68	0·5	-	0·0	9·6
	Clacton-on-Sea	orm	ocom	61	67	Trace	Trace	0·0	9·0
	Dovercourt ...	ocm	oc	61	69	-	-	0·3	9·6
	Lowestoft ...	c	c	60	66	-	-	0·1	2·9
	Skegness ...	o	ocbc	60	65	-	-	0·1	5·7
	Mablethorpe...	bco	bcco	58	65	-	-	0·6	4·5
	Cleethorpes ...	bcc	co	58	66	-	-	2·2	5·0
3	Leamington S.	o	o	50	68	-	-	0·0	5·8
4	Cheltenham†	wzc	c	54	70	-	-	0·6	8·8
5	Bath	cbc	b	56	71	0·3	-	0·6	7·1
	Weymouth ...	cm	cbc	59	70	-	-	0·7	9·4
	Jersey ...	cbc	cbc	61	69	-	-	2·5	9·6
	Torquay ...	wom	odp	55	65	-	0·1	0·0	10·8
	Falmouth ...	c	c	55	68	-	-	2·5	3·8
	Penzance ...	b	bcb	55	69	-	-	10·0	4·8
	St. Ives ...	b	b	56	69	-	-	7·7	6·0
	Bude... ...	bcc	co	51	69	-	-	3·5	10·2
	Ilfracombe ...	cbc	opbcz	58	68	-	0·3	1·3	10·1
6	Aberystwyth	cbcc	bc	53	70	-	-	4·3	3·8
7	Llandudno ...	bbc	c	54	71	-	-	5·5	7·4
	Colwyn Bay...	bcb	bcc	52	68	-	-	5·3	8·1
	Rhyl	mbbcc	cmo	59	73	-	-	2·9	9·9
8	Wallasey ...	fbc	bcc	58	71	-	-	2·9	10·1
	Southport ...	Fbcz	bczcz	55	72	-	-	2·8	8·9
	Blackpool ...	cmb	cmo	55	71	Trace	-	4·0	7·0
	Morecambe ...	cbc	bcc	55	71	-	-	5·0	0·2
9	Ilkley... ...	dobc	bco	56	69	Trace	-	2·4	6·0
	Harrogate ...	oc	bcc	57	66	0·2	-	0·2	6·0
10	Berwick-on-T.	omc	cmbc	56	63	-	-	1·5	*
11	Dunbar ...	bcmo	cmo	56	71	-	-	6·2	3·2
12	Troon... ...	cbcb	bbcb	55	66	-	-	7·6	1·6
	Douglas ...	om	cmo	53	65	-	-	0·9	5·1

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



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 August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind light easterly or variable; dull and cloudy early with thunder locally and fog in many places; brighter later to-day or tomorrow; warm and close.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind southeast, light or moderate; fair apart from morning fog; warm and close.
9 N. Midlands ... 10 N.E. England	As 1 - 4.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland	Wind south moderate; fair apart from morning fog; warm and close.
16 Orkney and Shetland	Wind south, fresh or strong; fair but patches of fog; warm and close.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind south to southeast moderate; mainly fair; rather warm.

GENERAL INFERENCE.

A large anticyclone covers Northern Europe and the North Sea and a shallow depression is moving westwards towards Southeast England. Apart from much low cloud and fog locally clearing rather slowly the weather will be fair in most places but in southeastern districts of England thunderstorms are probable.

FURTHER OUTLOOK.

Fair in most districts but thundery in Southern England.

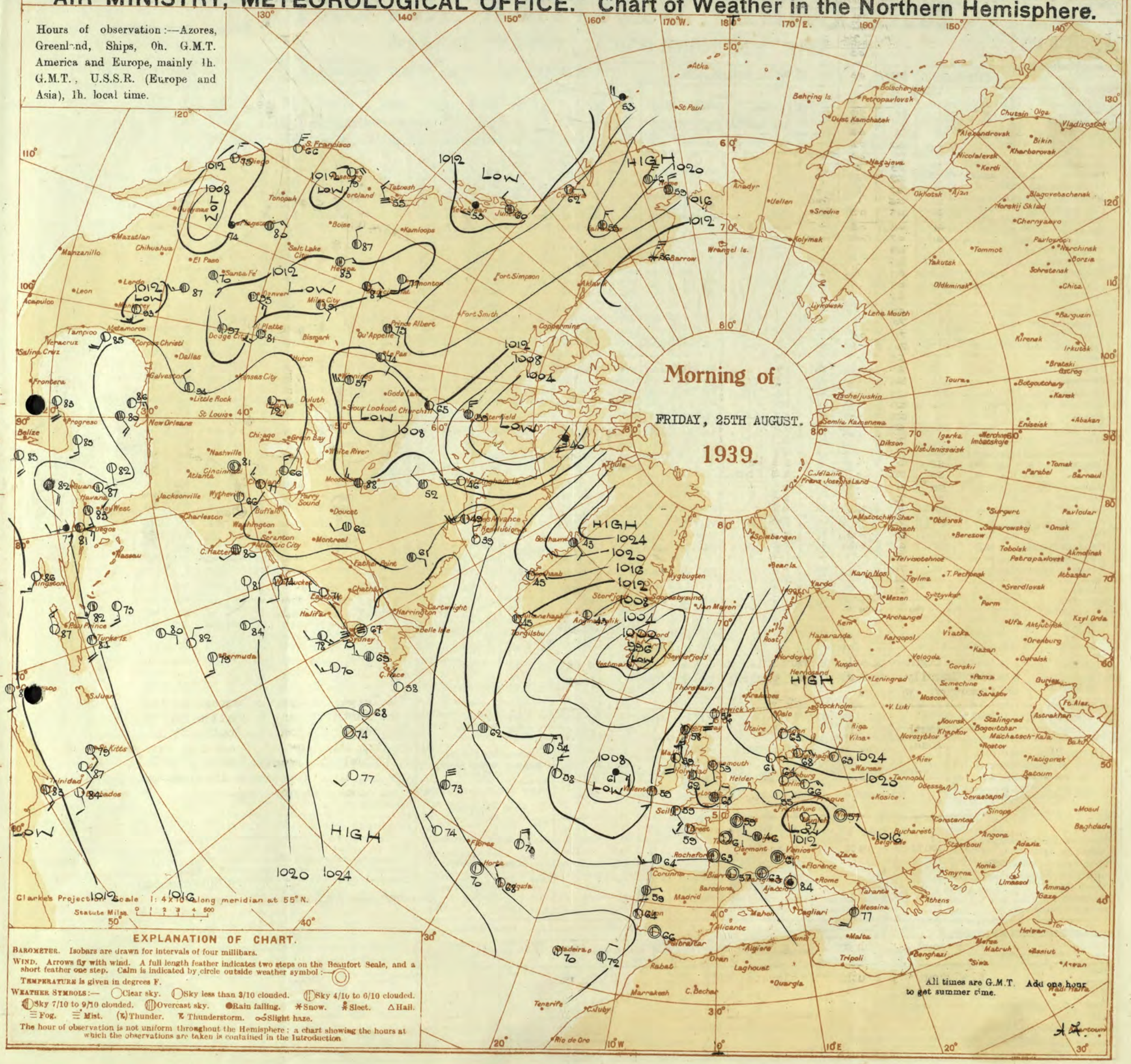
Forecasts issued at 0930 G.M.T.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 25th August, 1939.
No. 28400

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

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	1016.2	-8	NE	1	zo	63	92	5	5	-	-	10	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1016.2	-12	-	0	m	57	97	4	5	3	-	2-3	4-6	4000
	Calshot (Sthmtn.)	8	1015.5	-8	N'W	3	m	63	92	4	5	-	-	10	10	1500
	Lympne	346	1015.7	-6	N'E	3	zo'	62	97	6	5	-	-	4-6	4-6	450
	Manston	154	1014.8	-10	N'E	3	ol	64	97	5	5	-	-	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1015.4	-10	N'W	4	tlro	63	92	6	6	-	-	10	10	2500
	Mildenhall	19	1015.9	-10	N'E	2	c/tlr	61	97	6	6	2	-	4-6	10	450
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1015.1	-10	NE	3	c	62	92	7	5	2	-	7-8	10	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1015.2	-12	NE	2	bc	62	85	7	5	-	-	4-6	4-6	2500
	Plymouth	82	1015.4	-10	-	0	c/r	61	92	6	5	7	-	9+	10	4000
	The Lizard	240	1015.2	-10	SE	1	c	61	92	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1014.9	-10	SE'S	3	bc	59	97	7	5	-	-	2-3	2-3	2500
	Guernsey	175	1015.3	-4	-	0	m	61	97	4	5	-	-	10	10	220
6	Pembroke	142	1015.9	-2	SE	3	c	62	92	5	5	2	-	4-6	9+	2500
7	Holyhead	26	1015.8	-6	SE'E	1	c	62	92	5	5	-	7	2-3	9+	450
	Chester (Sealand)	16	1017.2	-6	-	0	m	57	97	4	5	1	-	4-6	7-8	4000
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1017.4	-4	NE'E	2	c	60	92	6	-	2	-	10	10	800
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1018.6	-4	S	2	c	59	97	5	5	-	-	7-8	7-8	1500
11	St. Abbs Head	280	1017.8	-4	S	3	c	57	92	6	5	6	-	4-6	7-8	1500
	Leuchars	36	1018.1	-2	-	0	zo	56	97	6	5	7	-	7-8	9+	1500
12	Renfrew (Abbots I.)	19	1018.1	+2	-	0	zo	57	97	5	5	3	-	4-6	9+	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1017.3	-2	SE	1	c	60	97	7	5	7	-	2-3	9+	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1017.3	0	S	3	c	58	92	6	5	7	-	7-8	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1017.2	+2	SSW	3	c	56	97	6	5	7	2	4-6	7-8	1500
16	Lerwick	156	1018.5	-4	S'W	5	c	56	97	7	5	2	-	7-8	10	800
17	Blacksod Point	18	1013.4	0	S	3	b	60	92	8	-	-	-	0	0	-
18	Malin Head	84	1015.8	+2	S	4	bc	59	85	7	5	4	-	2-3	4-6	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1012.4	-6	S	2	bc	59	97	8	8	-	-	2-3	2-3	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T 25th August

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)	1015.0	-2	NE'E	2	zo	63	92	5	5	-	-	10	10	1500	1	*
Croydon	1015.0	-4	NNE	1	m	62	97	4	5	-	-	10	10	450	1	*
S. Farnborough	1014.9	0	-	0	zo	61	92	5	5	-	-	10	10	800	0	*
Boscombe Down	1015.2	0	-	0	zo	61	97	5	5	-	-	7-8	9+	1500	0	*
Calshot (Sthmtn.)	1014.7	+2	N'W	1	zo	63	92	5	5	3	-	9	9+	2500	0	§ 0
Lympne	1014.6	-2	N	3	zo	62	97	5	5	-	-	10	10	220	0	1
Manston	1014.1	0	NNW	3	df	64	97	3	5	-	-	10	10	220	1	*
Shoeburyness	1014.7	0	NNW	2	o	63	97	6	5	-	-	10	10	1500	0	*
Felixstowe	1014.1	-6	N	3	zo	69	97	6	5	-	-	10	10	800	0	1
Gorleston	1014.1	-2	N	3	c	63	97	6	5	-	-	10	10	2500	1	2
Mildenhall	1014.6	-2	NNW	2	zo	62	97	5	5	-	-	10	10	450	1	*
Cranwell	1015.7	-6	N	1	zo	60	97	5	5	-	-	10	10	800	1	*
Birmingham	1016.1	-4	NNE	1	f	58	92	2	-	-	-	10	10	<150	1	*
Upper Heyford	1015.5	-6	NNE	2	zo	60	97	5	5	3	-	2-3	9+	450	1	*
Ross-on-Wye	1016.0	-4	W	1	of	57	97	3	5	-	-	10	10	450	1	*
Hartland Point	1013.9	-4	SE	3	c	60	97	6	5	2	-	7-8	10	1500	1	2
Bristol	1015.7	-2	-	0	m	58	92	4	5	-	-	10	10	450	0	*
Portland Bill	1014.5	-6	ENE	2	o	61	92	6	5	-	-	10	10	1500	1	2
Plymouth	1014.6	+2	ESE	1	zo	62	92	5	5	-	-	10	10	1500	1	0
The Lizard	1014.3	-6	-	0	c	60	97	7	8	6	-	7-8	9	2500	0	1
Scilly (St. Mary's)	1013.8	0	SES	3	bc	58	97	8	8	4	4	2-3	4-6	2500	0	2
Guernsey	1014.5	+2	-	0	zo	59	97	5	5	1	-	7-8	7-8	220	0	0
Pembroke	1014.6	-6	E'S	3	cf	60	92	3	5	2	-	7-8	9+	1500	1	1
Holyhead	1015.1	-2	W'N	1	b	60	92	6	-	4	1	0	Tr	-	0	0
Chester (Sealand)	1016.2	-4	-	0	of	58	97	3	5	-	-	10	10	800	0	*
Manchester	1016.4	-4	NE	1	ido	60	97	4	5	2	-	9	10	1500	1	*
Spurn Head	1015.2	-8	N'E	3	c	60	97	6	5	7	-	4-6	7-8	800	1	1
Catterick	1017.2	-4	NE	1	rf	58	97	3	-	2	-	10	10	800	1	*
Tynemouth	1017.8	-2	N	2	o/f	59	97	5	5	-	-	10	10	1500	1	1
St. Abbs Head	1017.7	+4	SSE	2	cf+	56	97	2	8	2	-	7-8	10	1500	0	*
Leuchars	1017.9	+2	-	0	m	58	97	4	-	2	-	10	10	<150	0	*
Renfrew (Abbots I.)	1017.7	+2	-	0	m	60	97	4	5	-	-	9+	9+	450	0	*
Eskdalemuir	1017.5	0	N'E	1	c	56	97	6	5	-	-	10	10	450	1	*
Point of Ayre	1016.2	-4	SE	2	cf	61	97	3	5	-	-	9+	9+	800	1	1
Tiree	1015.8	+4	SSE	3	bc	58	92	7	-	-	6	0	4-6	-	0	2
Stornoway	1017.0	+2	S	3	c	60	85	7	5	7	-	7-8	9+	2500	1	1
Dalwhinnie	*	0	S	3	c	59	85	6	4	8	1	2-3	7-8	2500	0	*
Aberdeen	1018.5	+4	SSE	1	c	59	97	6	6	-	-	9+	9+	800	0	1
Wick	1017.5	+2	S	2	bc	56	97	6	5	6	-	2-3	4-6	1500	0	1
Lerwick	1018.2	0	S	6	c	57	92	7	5	2	-	7-8	10	800	0	*
Blacksod Point	1011.7	0	SE'S	3	bc	59	85	8	4	4	3	2-3	4-6	1500	0	1
Malin Head	1015.8	+2	S	1	c	58	85	8	5	8	-	4-6	9	5700	0	1
Aldergrove	1016.1	+2	ENE	2	zo	57	92	5	5	3	-	Tr	9	5700	1	*
Birr Castle	1014.1	-4	S	1	c	60	85	8	5	3	-	4-6	7-8	2500	0	*
Valentia Obsy. †	1010.9	-6	SE'E	4	bc	62	75	8	8	-	4	2-3	4-6	2500	0	2
Roches Point	1012.9	-2	SE	3	bc	62	92	8	5	-	5	2-3	4-6	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 24 hrs. (36)
London (Kew)	65	63	60	0.1	-	0.5
Croydon	70	60	56	0.2	Tr	1.0
S. Farnborough	70	60	56	Tr	-	2.2
Boscombe Down	69	56	53	—	Tr	0.3
Calshot (Sthmtn.)	73	62	60	Tr	-	1.3
Lympne	67	61	59	Tr	-	1.1
Manston	66	63	60	0.4	Tr	0.0
Shoeburyness	68	60	56	Tr	-	0.0
Felixstowe	69	61	60	Tr	Tr	0.1
Gorleston	66	61	59	Tr	33	0.2
Mildenhall	66	60	60	Tr	2	0.1
Cranwell	64	57	55	Tr	0.4	0.0
Birmingham	62	57	49	—	-	0.3
Upper Heyford	62	58	54	Tr	-	*
Ross-on-Wye	70	55	47	Tr	-	1.0
Hartland Point	70	59	57	Tr	0.1	5.6
Bristol	*	52	45	*	-	1.9
Portland Bill	66	59	*	Tr	-	*
Plymouth	68	60	58	Tr	Tr	0.1
The Lizard	70	59	*	—	-	7.7
Scilly (St. Mary's)	67	57	*	—	-	11.4
Guernsey	62	56	51	Tr	Tr	0.0
Pembroke	68	59	*	—	-	5.2
Holyhead	68	57	49	—	Tr	9.2
Chester (Sealand)	70	55	50	—	-	1.5
Manchester	71	57	52	—	Tr	2.4
Spurn Head	66	60	*	—	6	1.4
Catterick	67	56	54	Tr	2	0.2
Tynemouth	61	58	53	—	—	0.3
St. Abbs Head	63	55	*	—	-	*
Leuchars	66	53	49	—	-	4.2
Renfrew (Abbots I.)	73	56	51	—	-	6.8
Eskdalemuir	70	51	46	—	-	7.2
Point of Ayre	68	57	*	—	-	4.4
Tiree	64	55	52	—	-	3.1
Stornoway	66	58	*	—	-	9.6
Dalwhinnie	70	55	44	—	-	11.3
Aberdeen	63	59	57	—	-	4.2
Wick	62	55	*	—	-	*
Lerwick	58	55	*	—	-	0.0
Blacksod Point	68	46	*	—	-	*
Malin Head	70	55	*	—	-	8.7
Aldergrove	70	53	45	—	-	7.7
Birr Castle	72	55	43	—	-	7.7
Valentia Obsy. †	69	*	58	Tr	-	4.6
Roches Point	66	61	*	Tr	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	crorom₀cm	czo	czocomo	68	63	60	0.1	-	0.5	*	*	5
Croydon	217	omrorc	cmozo	cldomm	70	60	56	0.2	Tr	1.0	*	*	4
Greenwich (Royal Observatory)	149	c	c	croomo	69	60	59	-	Tr	0.4	72	93	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	1.5	*	*	*
Westminster (St. James' Park)	27	*	*	*	70	62	60	—	—	0.8	74	93	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	70	61	55	0.1	-	1.2	71	94	*
Camden Square	110	c	bc	*	70	61	58	Tr	-	*	*	92	*
Kensington	80	c	cbcc	*	70	61	60	Tr	-	0.7	41 (18h.)	93	*
Hampstead Observatory	450									1.4	*		*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
<0.3	whole period		

Kew Observatory.

Max.	Time.	Min.	Time.
0.1	7-13h 24th	<0.1	17-21h 24th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 24th August Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 25th August 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	1014.5	-	0	bc	70	1013.4	WNW	2	f+	61	72	57	-	-
Brussels														
Berlin	1017.8	E	3	b	79	1017.7	E'N	3	zo	68	86	63	·	-
Zürich	1012.3	N	1	c	72	1010.6	NW	1	zo	61	70	59	-	Tr
Rome	1012.3	SSE	3	c/r	73	1011.5	SSE	2	c	72	*	*	0.3	4

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 26th August. 1939.
No. 28401

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1014.3	-6	NW	1	z	68	75	6	5	-	-	10	10	1500
	Croydon	1014.6	+2	NWW	2	zo	68	75	6	5	-	-	9	10	1500
	S. Farnborough	1014.5	-6	W'N	1	zo	68	75	6	5	-	-	10	10	1500
	Boscombe Down	1014.2	-6	E'S	1	zo	72	65	6	2	7	-	7-8	9	2500
	Calshot (Soton.)	1014.5	0	SSW	3	zo	73	75	6	2	3	6	2-3	7-8	2500
	Lympne ...	1014.1	-4	NNW	2	zo	66	92	5	5	-	-	10	10	450
	Manston ...	1013.2	-2	NW'N	4	zo	65	97	6	5	-	-	10	10	450
2	Shoeburyness ...	1013.9	-6	NNW	2	c	68	85	6	5	-	-	10	10	800
	Felixstowe ...	1013.4	-4	NNW	3	zo	72	75	5	5	-	-	4-6	4-6	1500
	Gorleston ...	1013.5	-2	N'E	1	b	68	85	6	5	-	-	1	1	2500
	Mildenhall ...	1013.6	-6	NW	3	zo	67	85	6	3	2	-	7-8	10	1500
	Cranwell ...	1014.6	-8	NNW	2	tlro	64	92	6	9	7	-	7-8	9+	1500
3	Birmingham ...	1015.2	-2	NW	1	c	65	75	6	5	-	-	10	10	1500
	Upper Heyford	1014.8	-6	N	2	zo	68	75	6	8	3	-	7-8	9+	800
4	Ross-on-Wye ...	1014.8	-6	NNE	1	zo	67	85	6	5	-	-	9+	9+	1500
5	Hartland Point	1013.5	-6	NNE	2	c/pr	65	97	6	8	-	-	9+	9+	1500
	Bristol	1014.4	-6	ESE	2	zo	70	75	6	8	4	-	7-8	7-8	2500
	Portland Bill ...	1014.8	+10	S	1	o	65	92	5	5	-	-	10	10	1500
	Plymouth ...	1014.3	+2	S	3	if	64	85	6	5	-	-	7-8	7-8	450
	The Lizard ...	1013.7	0	SSE	2	c	62	92	7	8	2	-	7-8	9+	2500
	Scilly (St. Mary's)	1013.0	-2	S'E	4	bc	65	92	8	2	4	4	2-3	4-6	2500
	Guernsey ...	1015.0	+4	S	2	c	64	75	6	8	3	-	7-8	9	800
6	Pembroke ...	1014.5	0	SE'S	3	c	63	92	5	5	2	-	7-8	9+	1500
7	Holyhead ...	1014.1	-4	WNW	3	bc	67	75	6	-	3	8	0	4-6	-
	Chester (Sealand)	1014.9	-6	SE'E	1	zo	71	65	6	8	-	-	9	9	2500
8	Manchester ...	1015.5	-2	ENE	3	m	65	85	4	5	2	-	9	10	2500
10	Spurn Head ...														
	Catterick ...	1016.3	+6	NE'N	1	iro	62	92	6	5	-	-	10	10	800
	Tynemouth ...	1017.5	0	N	2	iro	60	97	6	-	2	-	10	10	1500
11	St. Abbs Head...	1017.9	0	ESE	2	m	59	92	4	5	-	-	10	10	800
	Leuchars ...	1018.0	-2	ENE	3	roro	60	92	5	-	2	-	10	10	450
12	Renfrew (AbbotsI.)	1017.3	-4	E	3	oir	63	85	5	5	-	-	10	10	1500
	Eskdalemuir ...	1016.9	0	E'S	2	c	61	85	7	5	2	-	4-6	10	800
	Point of Ayre ...	1015.9	-2	E	2	c	64	85	7	5	7	-	4-6	9+	1500
13A	Tiree	1015.7	0	SE'E	3	bc	68	65	7	-	-	6	0	2-3	-
13B	Stornoway ...	1017.3	+2	SSE	1	bc	66	85	7	1	4	6	Tr	4-6	4000
15	Dalwhinnie ...	1017.6	-4	SW	3	c	66	75	6	4	8	-	4-6	9+	2500
	Aberdeen ...	1018.6	0	ESE	2	c	63	85	6	6	-	-	9+	9+	800
	Wick	1017.6	0	SSE	2	bc	60	85	6	5	4	-	2-3	4-6	2500
16	Lerwick... ...	1018.4	-2	S	6	c	59	92	7	5	3	-	4-6	7-8	800
17	Blacksod Point...	1012.4	-8	SE	3	bc	68	75	8	2	-	1	2-3	4-6	1500
18	Malin Head ...	1014.9	-6	E	3	zo	62	85	5	-	7	-	0	4-6	-
	Aldergrove ...	1014.9	-6	E	2	zo	66	85	5	5	-	-	9	9	4000
19	Birr Castle ...	1013.1	-4	S	1	c	68	75	8	5	2	-	7-8	10	1500
20	Valentia Obsy.†	1010.7	-2	SE'E	4	bc	69	65	8	7	-	1	4-6	4-6	4000
	Roches Point ...	1012.5	-2	SE	3	bc	66	85	8	2	-	-	4-6	4-6	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1013.9	0	NE'N	1	z	67	85	6	5	-	-	9+	9+	1500	1	*
Croydon	1014.1	-2	N'E	1	r/Iro	66	97	5	9	7	-	7-8	9+	2500	1	*
S. Farnborough	1013.8	+4	E'N	1	zo	69	75	6	1	3	6	Tr	4-6	4000	0	*
Boscombe Down																*
Calshot (Soton.)	1013.8	-2	SW	4	zo	67	85	6	1	-	6	Tr	9	4000	0	1
Lympne	1014.1	+2	NWW	2	zo	66	85	5	5	-	-	10	10	1500	0	§ 1
Manston	1013.1	+2	W	3	zo	67	85	5	5	-	-	9+	10	800	0	*
Shoeburyness	1013.5	0	W'N	1	c	68	85	6	5	-	-	10	10	1500	0	*
Felixstowe	1013.2	+2	S	1	zo	68	92	6	5	-	-	10	10	2500	0	1
Gorleston	1012.8	-2	N'W	1	bc	69	85	6	-	5	-	0	4-6	–	0	1
Mildenhall	1013.7	+6	NW'N	3	zo	65	92	6	5	-	-	10	10	1500	1	*
Cranwell	1014.1	-2	N'W	1	t	63	97	6	9	-	-	10	10	800	1	*
Birmingham	1014.0	-6	NNE	2	c	67	75	6	5	-	4	4-6	7-8	1500	0	*
Upper Heyford	1014.1	-6	N'E	1	zo	69	85	6	2	4	6	2-3	9+	2500	0	*
Ross-on-Wye	1013.5	-4	WNW	1	c	69	75	6	8	1	8	7-8	9+	2500	0	*
Hartland Point	1012.4	0	W	3	c	65	85	7	8	-	1	7-8	7-8	1500	1	2
Bristol																*
Portland Bill	1014.2	-8	WSW	1	bc	63	92	7	5	-	-	4-6	4-6	1500	1	2
Plymouth	1013.4	-6	S	3	bc	63	85	8	1	6	3	Tr	2-3	1500	1	1
The Lizard	1012.5	-10	ESE	3	c	62	85	8	8	6	-	7-8	9	2500	0	3
Scilly (St. Mary's)	1010.8	-14	SE'S	5	c/r	62	92	7	8	6	-	4-6	10	1500	1	3
Guernsey	1013.9	-4	S'E	1	bc	64	75	7	-	3	1	0	2-3	-	0	0
Pembroke	1014.3	-6	SE'S	3	c	65	85	5	5	2	-	7-8	9+	1500	1	0
Holyhead	1012.8	-6	NW	2	c	64	85	6	1	3	7	Tr	9+	4000	0	0
Chester (Sealand)	1013.6	-8	E'S	1	zo	69	75	6	6	7	2	2-3	4-6	4000	0	*
Manchester	1014.0	-2	SSW	1	zo	67	85	5	5	2	-	4-6	10	2500	1	*
Spurn Head	1013.9	-6	NNE	2	c	61	92	6	5	4	-	4-6	7-8	450	0	1
Catterick	1015.1	-4	N'E	1	df	61	97	3	-	-	-	10	10	<150	1	*
Tynemouth	1015.6	-10	N	3	o	59	97	6	5	-	-	10	10	1500	1	1
St. Abbs Head	1016.3	-10	NW	2	f	58	97	2	-	-	-	10	10	<150	1	1
Leuchars	1017.0	-6	NNE	1	iro	61	92	6	5	-	-	9	10	800	1	*
Renfrew (AbbotsI.)	1015.7	-8	ENE	3	zo	64	85	6	5	2	-	9+	10	1500	0	*
Eskdalemuir	1015.2	-8	ENE	4	c	61	92	6	5	-	-	10	10	800	0	*
Point of Ayre	1014.4	-8	NE'E	1	c	63	92	7	5	2	-	9	10	2500	0	1
Tiree	1015.2	0	E'S	2	bc	64	85	7	-	7	-	0	4-6	-	0	2
Stornoway	1017.4	0	–	0	c	65	85	7	5	4	6	7-8	9+	2500	0	0
Dalwhinnie	1017.7	-2	–	0	iro	59	85	6	5	2	-	4-6	10	1500	1	*
Aberdeen	1017.8	-8	E	2	c	61	85	6	5	7	-	4-6	9	1500	0	1
Wick	1012.3	+2	SE	3	c	58	92	6	5	2	-	7-8	10	800	0	1
Lerwick	1018.8	+6	SW	3	c	58	92	7	5	7	-	4-6	7-8	800	0	*
Blacksod Point	1011.0	-8	SE	3	c	67	75	7	-	7	-	0	7-8	-	0	2
Malin Head	1014.4	-2	E	2	c	62	85	5	8	-	2	4-6	7-8	4000	0	1
Aldergrove	1013.8	-6	ESE	2	zo	64	75	5	5	-	-	9	9	4000	1	*
Birr Castle	1011.8	-8	S'W	2	c	66	75	7	-	5	-	0	10	-	0	*
Valentia Obsy.†	1009.3	-6	ESE	4	c	65	75	8	8	4	-	7-8	7-8	2500	0	1
Roches Point	1011.2	-6	SE	3	bc	63	85	8	2	-	5	2-3	4-6	2500	0	3

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 25th (37)	13h.–18h. 25th (38)	18h. 25th to 1h. 26th (39)	1h.–7h. 26th (40)
London (Kew)	om.cmo	ctirmo	cmo	cmofefe
Croydon	ommo	omoprotlr		bcmof bm
S. Farnborough	omocz	cbcz	bczom	ofe
Boscombe Down	omocmo		cmo pmo Few	Ff Few
Calshot (Soton.)	cmobmo	cmobcm		bmFmofg
Lympne	cmofmod	omo		cbcwFe
Manston	odfomo	ocmo		pFwb
Shoeburyness	dddodoc	cmo	cmocm	cmbm
Felixstowe	omododom	bcmobmodmo	cmo	cmoon
Gorleston	czobzo	bbczo	bozooffe	
Mildenhall	omoccm	omo	tmoFeL	bFLofe
Cranwell	otlrmo	cotlrtlmo		octlmoF
Birmingham	foc	cbcc	cbc	bccf
Upper Heyford	cmo	czo		pflof
Ross-on-Wye	ofomocmo	bcc	cPbcm	cfoF
Hartland Point	cpo	hrt	bccrr	rrirc
Bristol	cmoomoc		cmobcb	bbcwroc
Portland Bill	ozo	obc	cbc	bcpr
Plymouth	roocif	bcjfojfbc	bccroroiro	roroir id
The Lizard	bcc	bcc	prirc	cprbc
Scilly (St. Mary's)	bc	bccro		cirqobc
Guernsey	cz	cbc	bbcc	ciroR
Pembroke	fcmo	fcmo	bciroc	irc
Holyhead	bbcmo⊕	bcczomo	cmowb	bmoc
Chester (Sealand)	ofwmzoc	czo		omfomw
Manchester	cdomfm	cmmo		ombcFF
Spurn Head		fe	cf	f
Catterick	firomot	rridf	idofomo	omoirom
Tynemouth	oiro	oiroo	off	off
St. Abbs Head	f.irom	mmofe	Fmoc	Ffe
Leuchars	omrorom	ciromo	rocdomocmo	idomoofdo
Renfrew (AbbotsI.)	cmmoiro	cmoiro		cmoiro
Eskdalemuir	ciroc	cmo	irotLR	cpro
Point of Ayre	ffzo	c	co	bbccz
Tiree	bc	bc		
Stornoway	cbbc	c	c	c
Dalwhinnie	c	cir		c
Aberdeen	cbcczo	czo	cofefe	ofefedo
Wick	bcmo	bccmo	cmoF	FcF
Lerwick	c	c	coFc	odffe
Blacksod Point	bc	bc	bc	cbc
Malin Head	zo	zo	zo	zo
Aldergrove	cmobccmo	cmmo		cmoof
Birr Castle	c	cproc	c	c
Valentia Obsy.†	bc	bcc	c	cPRbc
Roches Point	bccbc	bc	probc	cirido

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.

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.*

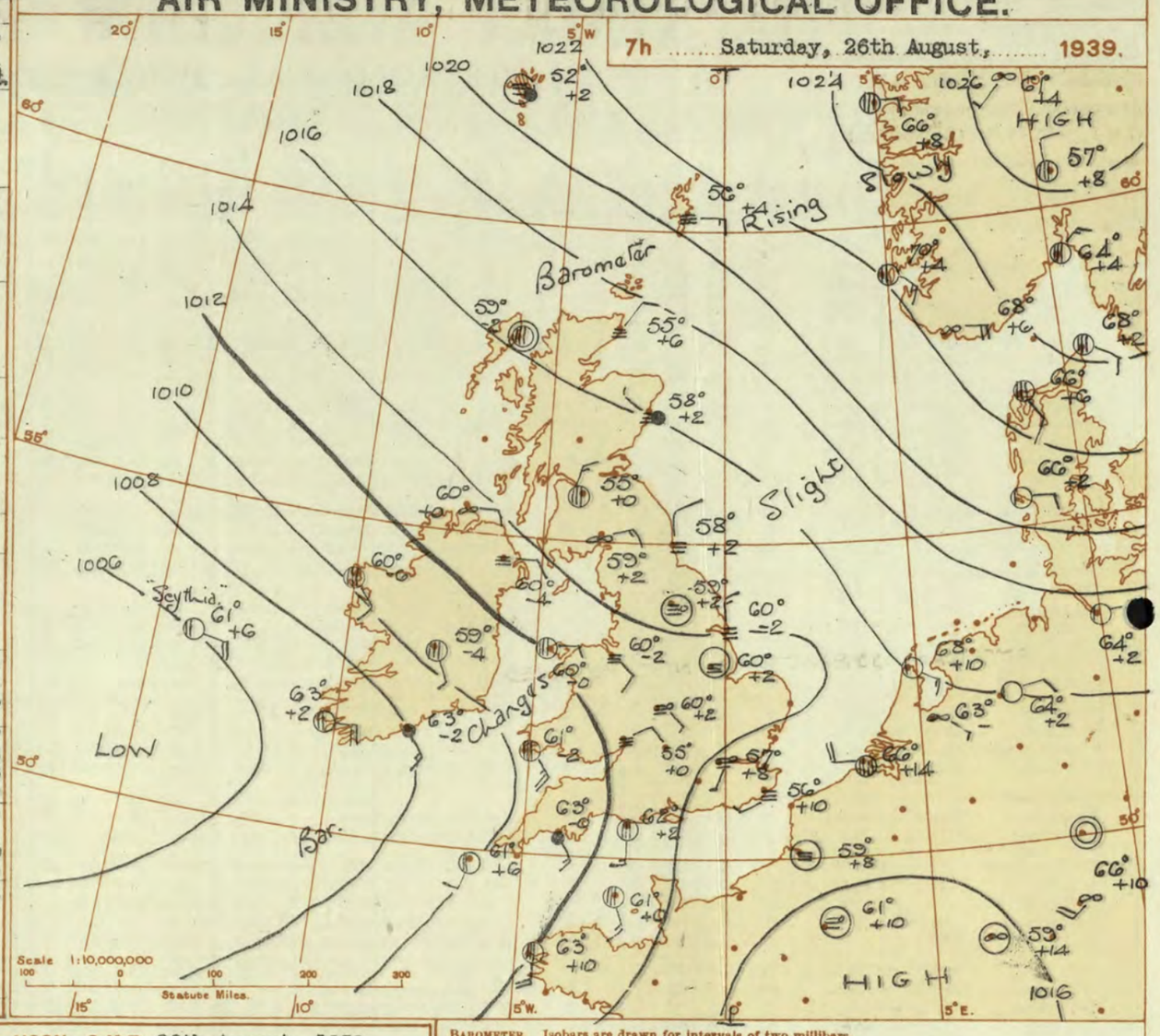
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for August 25th 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 24th to 9h. 25th	Temperature. (°F) Max. 9h.—17h. 25th	Rainfall. (mm.) Night. 17h. 24th to 9h. 25th	Rainfall. (mm.) Day. 9h.—17h. 25th	Sunshine. (Hrs.) Sunrise to 17h. 25th	Sunshine. (Hrs.) Sunrise to Sunset. 24th
1	Tunbridge W.	o	ofpo	58	68	Trace	Trace	0.0	1.5
	Bournemouth								
	Ventnor ...	obz	cbcz	62	72	-	-	4.8	3.6
	Southsea ...	b	bbc	63	74	-	-	7.1	2.5
	Bognor Regis								
	Littlehampton	c	cbc	62	71	-	-	1.5	2.5
	Worthing ...	c	cbcc	62	71	-	-	1.7	3.1
	Brighton ...	oc	cpc	62	71	-	2	0.4	1.5
	Eastbourne† ...	omo	octlr	62	69	-	1	0.0	0.3
	Hastings† ...	o	o	61	70	-	-	0.0	1.9
	Folkestone ...	mop	p	62	70	-	-	0.2	0.5
	Dover ...	o	oco	63	70	Trace	-	0.1	0.0
	Deal	o	o	63	69	Trace	-	0.0	0.0
	Ramsgate ...	do	co	63	69	Trace	Trace	0.0	0.1
	Margate ...	cmd.	c	63	68	1	Trace	0.0	0.1
2	Southend ...	odo	o	61	69	Trace	Trace	0.0	0.0
	Clacton-on-Sea	o							
	Dovercourt ...	ocd	bcc	62	76	Trace	-	3.3	0.3
	Lowestoft ...	cbcb	b	61	70	38	-	7.5	0.1
	Skegness ...	orof	bd.o	61	64	7	Trace	0.0	0.1
	Mablethorpe...	otlom	oz.oz	62	64	7	-	0.0	0.6
	Cleethorpes ...	omr.o	omc	60	63	6	Trace	0.0	2.2
3	Leamington S.	oc.	c	57	71	-	-	0.6	0.0
4	Cheltenham†	wfoc	cbcc	55	74	-	-	3.4	0.8
5	Bath	cbc	bccr	57	72	0.3	1	2.0	0.6
	Weymouth ...	mc	cbc	60	69	0.2	-	2.3	0.7
	Jersey ...	c	cbc	57	70	-	-	3.0	2.7
	Torquay ...	wom.c	bcb	61	67	-	-	4.2	0.6
	Falmouth ...	b	b	61	68	Trace	-	5.8	3.8
	Penzance ...	cbcb	pbcc	58	69	-	-	6.1	11.3
	St. Ives ...	b	b	56	68	-	-	7.6	9.4
	Bude... ...	pcbc	bcb	58	72	0.3	-	5.6	3.5
	Ilfracombe ...	cpbco	cbc	60	68	0.1	-	1.7	1.7
6	Aberystwyth	cbcc	bcc	55	70	-	-	5.0	4.7
7	Llandudno ...	cbc	bcbc	56	72	-	-	5.4	5.5
	Colwyn Bay...	ocb	cbc	56	72	-	-	5.6	6.3
	Rhyl	bcm.o	cbm.o	55	74	-	-	2.8	2.9
8	Wallasey ...	fc	c	60	68	-	-	0.0	2.9
	Southport ...	czogz	ozcoz	55	69	-	-	0.1	2.8
	Blackpool ...	cm.	cm.o	56	68	-	-	0.0	4.0
	Morecambe ...	cbc	c	59	69	Trace	-	0.6	5.0
9	Ilkley... ...	o	opo	58	66	-	Trace	0.0	2.4
	Harrogate ...								
10	Berwick-on-T.								
11	Dunbar ...								
12	Troon... ...								
	Douglas ...	cz	cz	57	65	-	-	0.3	0.9

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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 August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Wind variable between south and east, light or moderate; occasional rain but some bright periods; chance of thunder locally ; close and warm.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind light or moderate easterly; cloudy, local thundery rain; fog on coasts in many places; close.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Wind east, light or moderate; mainly fair apart from morning fog; warm.
15 N. E. Scotland 16 Orkney and Shetland	As 8 - 12.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 13 - 14.

GENERAL INFERENCE.

Pressure is high in Northern Europe and Iceland and a belt of relatively low pressure lies from Switzerland to the South of Ireland. In northern districts winds will be easterly. In all districts there will be areas of low cloud with rain at times and some local thunder.

FURTHER OUTLOOK.

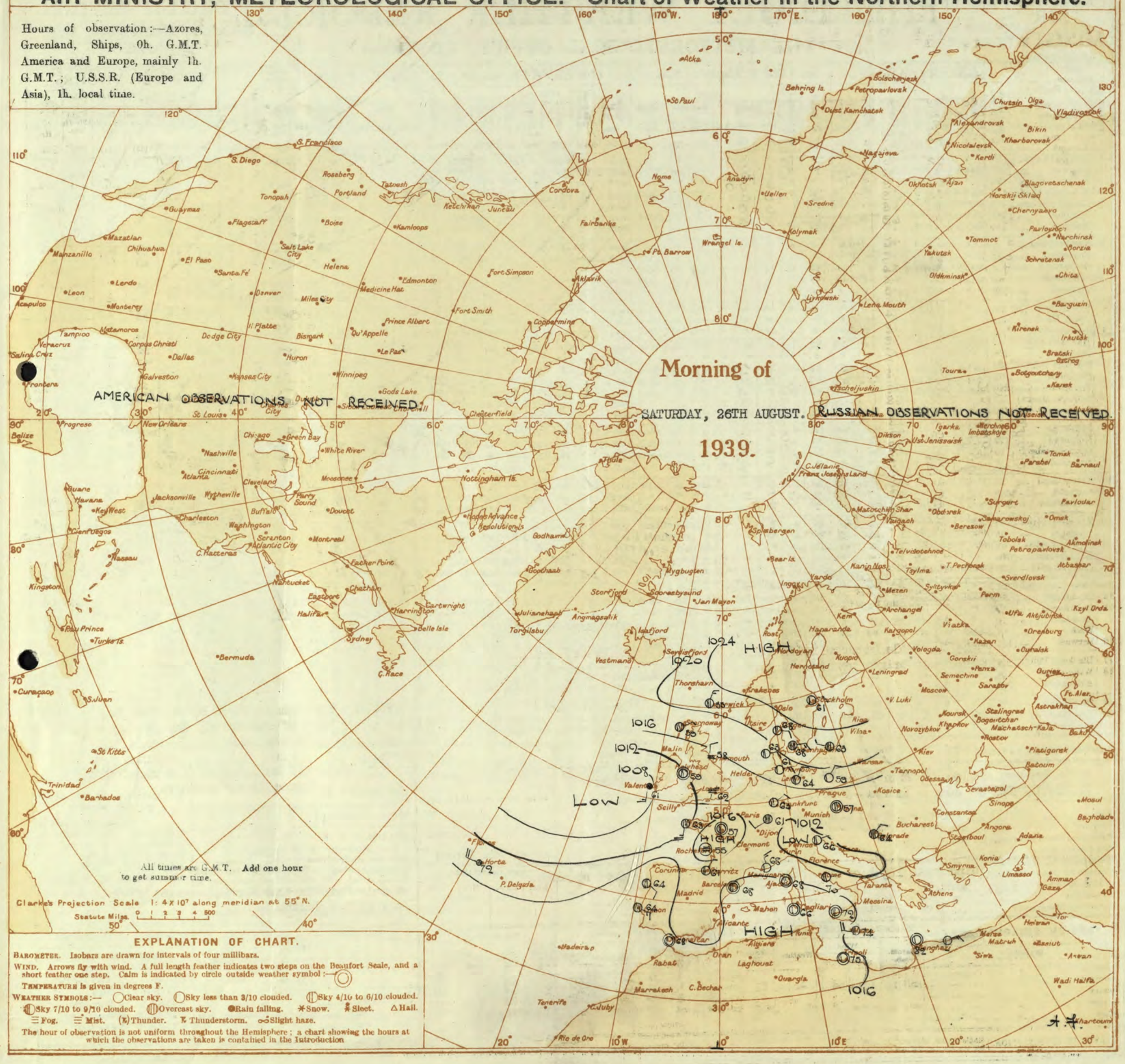
Mainly fair in the North, unsettled and thundery in the South.

Forecasts issued at 10.00 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 26th August, 1939.

No. 28401.

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

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	1014·5	-2	SSW	2	m	62	97	4	3	6	-	4·6	4·6	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1014·4	0	S	1	F	56	97	0	-	-	-	10	10	<150
	Calshot (Sthmtn.)	8	1014·9	+2	SSW	1	m	59	92	4	-	4	-	0	Tr	-
	Lympne ...	346	1015·0	+2	NW	2	cft	60	97	3	5	3	-	7·8	7·8	1500
	Manston ...	154	1013·9	-2	W'S	2	m	63	97	4	5	-	-	10	10	450
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1013·9	-2	NW'W	1	F	61	92	1	-	-	-	10	10	<150
	Mildenhall ...	19	1013·7	-4	-	0	dF	61	97	1	-	-	-	10	10	<150
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Roes-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012·3	-2	E	1	rr	58	92	7	6	2	-	7·8	9+	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1013·8	-6	SE	1	bc	61	85	7	5	-	-	2·3	2·3	4000
	Plymouth ...	82	1012·6	-10	ESE	2	r.o.	60	97	6	6	7	-	9	10	1500
	The Lizard ...	240	1011·3	-8	S'E	5	c	61	97	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	163														
	Guernsey ...	175	1013·9	-4	SSE	2	c	61	92	8	1	4	-	4·6	7·8	2500
6	Pembroke ...	142	1014·5	-4	SE	4	r.o.	60	92	7	5	-	-	9+	9+	1500
7	Holyhead ...	26	1012·4	-6	-	0	b	59	92	6	-	-	4	0	1	-
	Chester (Sealand)	16	1013·8	-2	-	0	f	59	97	2	*	*	-	10	10	<150
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1013·3	-2	N	2	F+	60	97	0	5	-	-	10	10	<150
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1015·2	-4	N	2	of	58	97	3	5	-	-	10	10	1500
11	St. Abbs Head	280	1015·7	-6	NNE	1	c	57	97	6	5	2	-	7·8	9+	1500
	Leuchars ...	36	1016·2	-8	NE	2	Zo	58	97	6	6	2	-	9	10	800
12	Renfrew (Abbots I.)	19	1015·5	-6	E	3	i.c.	60	92	6	5	-	-	10	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1013·5	-4	ESE	3	o	62	97	7	5	-	-	10	10	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1016·6	-4	ENE	1	c	59	92	6	5	7	-	7·8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1018·2	0	SE	3	F+	56	97	1	-	-	-	10	10	<150
16	Lerwick ...	156	1020·8	+19	NE'N	3	c	55	97	7	5	7	-	9·6	9+	800
17	Blacksod Point	18	1011·0	0	-	0	b	61	92	7	-	-	-	0	0	-
18	Malin Head ...	84	1013·4	-6	E	1	Zo	59	92	5	5	-	-	9·6	9·6	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1007·9	-6	S	3	id.	61	97	7	8	-	-	9	9	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1015·1	+6	WSW	1	of-	58	97	3	5	-	-	10	10	1500	1	*
Croydon ...	1015·2	+8	S'W	1	m	57	97	4	-	4	1	0	7·8	-	1	*
S. Farnborough	1014·7	+6	-	0	c/f	53	97	4	-	-	-	10	10	<150	1	*
Boscombe Down	1014·2	0	SE'E	3	F+	58	97	4	5	3	-	9	9+	220	1	*
Calshot (Sthmtn.)	1014·2	0	SE	2	Zo	61	97	5	6	3	9	7·8	9+	450	0	1
Lympne ...	1015·8	+10	WSW	1	F	56	97	1	-	-	-	10	10	<150	0	§1
Manston ...	1014·7	+8	WSW	2	F	56	97	1	-	-	-	10	10	<150	0	*
Shoeburyness ...	1014·7	+8	W'N	1	m	63	92	4	1	-	-	2·3	2·3	2500	0	*
Felixstowe ...	1014·2	+4	WNW	2	Zo	63	97	5	5	-	-	10	10	450	0	2
Gorleston ...																
Mildenhall ...	1014·2	+6	W	1	o/d	61	97	5	5	-	-	10	10	800	1	*
Cranwell ...	1013·8	+2	-	0	f-	60	97	3	5	-	-	10	10	<150	1	*
Birmingham ...	1013·9	+2	SE	1	m	60	97	4	5	3	-	4·6	9·6	800	0	*
Upper Heyford	1014·7	+6	-	0	c/f	58	97	4	5	3	-	9	9+	220	1	*
Roes-on-Wye	1013·7	0	E'N	2	c F	55	97	1	5	-	2	9·6	7·8	<150	1	*
Hartland Point	1010·2	-2	SE	3	c	61	97	7	8	4	-	4·6	9	1500	1	2
Bristol ...	1013·7	+2	SE	2	m.	55	97	6	5	3	8	4·6	9	800	0	*
Portland Bill ...	1013·2	+2	S	3	c	62	85	8	5	-	-	4·6	7·8	4000	1	2
Plymouth ...	1011·4	0	SSE	3	PR	63	97	6	9	3	-	9+	9+	220	1	2
The Lizard ...	1010·4	+6	SSW	3	bc	62	97	8	8	4	-	4·6	4·6	2500	1	2
Scilly (St. Mary's)	1009·1	+6	SSW	2	bc	61	97	8	3	4	2	2·3	4·6	1500	1	2
Guernsey ...	1013·3	0	SSE	3	c	61	97	7	5	3	-	4·6	7·8	1500	1	2
Pembroke ...	1014·9	-2	SE	5	c/r	61	92	7	8	2	-	7·8	10	1500	1	2
Holyhead ...	1011·7	0	E	2	c	60	92	7	1	7	8	Tr	10	2500	0	0
Chester (Sealand)	1013·1	-2	SE	2	o/f	60	97	4	5	-	-	10	10	450	0	*
Manchester ...	1013·5	-2	-	0	bc f	57	97	2	-	3	-	0	9·6	-	1	*
Spurn Head ...	1012·9	-2	NNW	3	of-	60	97	1	5	-	-	10	10	<150	0	1
Catterick ...	1014·3	+2	-	0	m	59	97	4	6	-	-	10	10	1500	1	*
Tynemouth ...	1014·3	+2	N	2	cf	58	97	2	5	-	-	10	10	1500	1	1
St. Abbs Head	1014·8	-6	NW	2	F	56	97	0	-	-	-	10	10	<150	1	*
Leuchars ...	1015·1	-2	NNE	1	df	58	97	3	-	2	-	10	10	220	1	*
Renfrew (Abbots I.)	1014·7	+4	E'N	3	Zp	59	92	5	5	-	-	10	10	1500	1	*
Eskdalemuir ...	1014·3	0	N'E	3	c/pr	55	92	6	3	3	6	7·8	9	800	1	*
Point of Ayre ...	1012·8	0	SSE	2	c	62	97	6	5	-	-	10	10	2500	0	1
Tiree	1015·8	-2	-	0	c	59	92	6	5	1	-	4·6	10	4000	0	0
Stornoway ...	*	-2	-	0	c	53	97	6	4	1	-	4·6	10	1500	0	*
Dalwhinnie ...	1016·0	+2	NW'W	1	df	58	97	2	-	-	-	10	10	<150	0	1
Aberdeen ...	1016·6	-6	NE	2	F	55	97	1	-	-	-	10	10	<150	1	1
Wick ...	1020·6	+4	E	3	f	56	97	2	-	-	-	10	10	<150	1	*
Lerwick ...	1010·5	-6	SE	2	c	60	92	7	-	3	-	0	7·8	-	0	1
Blacksod Point	1012·7	0	E	2	Zp	60	92	6	8	-	-	7·8	7·8	4000	0	1
Malin Head ...	1012·4	-2	E	2	cf+	60	97	3	5	-	-	10	10	220	1	*
Aldergrove ...	1010·4	-4	SSE	1	c	59	92	8	5	7	-	7·8	9	2500	0	*
Birr Castle ...	1006·9	+2	E	4	bc	63	85	8	5	-	-	9·6	9·6	2500	1	1
Valentia Obsy. †	1007·9	-2	SE	3	id.	63	97	7	5	-	-	7·8	7·8	800	1	3
Roches Point																

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 25th Hrs. (36)
London (Kew)	69	56	53	0·4	Tr	0·0
Croydon ...	69	66		2	0·6	
S. Farnborough						
Boscombe Down	75	57	53	-	-	6·5
Calshot (Sthmtn.)		55				
Lympne ...	67	55		Tr	Tr	
Manston ...	68	55		Tr	Tr	
Shoeburyness ...	69	61	58	Tr	-	0·0
Felixstowe ...	78	61	61	Tr	-	4·2
Gorleston ...				-		
Mildenhall ...	69	60	61	-	0·3	0·0
Cranwell ...	65	59		2	4	
Birmingham ...	68	59	48	-	-	0·5
Upper Heyford	71	57		-	-	*
Roes-on-Wye	71	55	51	-	0·5	1·9
Hartland Point	69	57	55	3	*	3·4
Bristol ...	*	52	43	Tr	Tr	1·8
Portland Bill ...	65	59	*	-	0·6	*
Plymouth ...	66	59	56	-	6	4·9
The Lizard ...	67	60	*	-	3	5·5
Scilly (St. Mary's)	66	59	*	Tr	10	8·3
Guernsey ...	68	59	55	-	1	8·7
Pembroke ...	65	58	*	-	3	0·0
Holyhead ...				-	Tr	
Chester (Sealand)	71	58		-	-	
Manchester ...	(67)	52		-	-	
Spurn Head ...	64	60	*	16	-	0·0
Catterick ...	64	58	58	7	0·4	0·0
Tynemouth ...	60	58	57	0·4	-	0·0
St. Abbs Head	61	55	*	0·2	0·1	*
Leuchars ...	63	57	57	3	0·4	0·0
Renfrew (Abbots I.)	65	59		Tr	3	
Eskdalemuir ...	63	55	54	Tr	7	0·0
Point of Ayre ...	67	58	*	-	-	0·3
Tiree	68	58	*	-	-	9·8
Stornoway ...	65	51	48	0·1	-	2·3
Dalwhinnie ...	65	56	54	-	Tr	2·0
Aberdeen ...	61	54	*	-	Tr	*
Wick ...	60	55	*	-	0·3	2·0
Lerwick ...	70	58	*	-	-	*
Blacksod Point	67	57	*	*	-	3·6
Malin Head ...	68	58	*	-	-	
Aldergrove ...	68	54	46	Tr	-	1·7
Birr Castle ...	71	(61)	58	-	3	8·5
Valentia Obsy. †	67	62	*	-	2	*
Roches Point						

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 24 hrs. ended 9h. Morning.	Afternoon.	Night.	Temperature. Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall. Day. mm.	Night. mm.	Sunshine to Sunset. hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	9h. G.M.T. % To-day.	Visibility 9h.
Kew ...	18	omocmo	ctomo	cmofefg	69	56	53	0·4	Tr	0·0	*	*	
Croydon ...	217	omm.	omprctb	bcmofom	69	66	*	2	0·6	*	*	*	6
Greenwich (Royal Observatory) ...	149												
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	70	58	54	4			85	85	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*									*
Camden Square ...	110	o	c	*	68	57	55	1	14	*	*	85	*
Kensington ...	80	bc	ctp	*	69	57	61	0·2	2	0·0	At 18h 61		*
Hampstead Observatory ...	450	bc	bcortl	bc	66	56	54	-	3	0·0	89	92	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
<0·3 whole period			

Kew Observatory.

Max.	Time.	Min.	Time.

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. August 25th. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. August 26th. 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 ...						1016·5	-	0	m	61		59		-
Brussels ...	1011·7	WNW	2	bc	72	1014·0	-	0	z	57	81	54	Tr	-
Berlin ...						1016·8	E	4	Bc	66		63		-
Zurich ...	1015·9	NNW	3	c	68	1016·4	W	1	rr	61	82	61	-	19
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 ,,	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	Precipitous.
4	Rough.	9	Confused.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 27th August, 1939.
No. 28402

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1014.9	-2	SW	3	c	69	65	8	7	3	2	4-6	9	2500
	Croydon	1015.2	0	S	2	bc	75	55	8	1	4	2	2-3	4-6	4000
	S. Farnborough	1014.9	0	SE	3	c	69	65	8	8	7	1	7-8	9+	2500
	Boscombe Down	1014.3	0	S'E	4	c	67	85	7	5	7	-	9	9+	1500
	Calshot (Soton.)	1015.0	+2	S	4	c	68	85	7	5	1	-	7-8	10	1500
	Lympne	1016.6	+6	SSW	2	z₀	67	85	6	5	-	1	4-6	7-8	800
	Manston	1015.5	+2	SW'S	4	c	76	55	8	2	7	6	2-3	7-8	2500
2	Shoeburyness	1015.2	-2	SSW	3	c	76	65	7	2	-	2	1	7-8	2500
	Felixstowe	1014.9	+2	S'W	3	c	75	65	7	1	5	6	tr	9	4000
	Gorleston	1014.8	+6	NW'N	2	c	64	92	6	5	-	-	10	10	2500
	Mildenhall	1014.4	-2	SW'S	3	z₀	74	65	6	8	3	8	2-3	7-8	2500
	Cranwell	1013.9	-2	WSW	1	z₀	70	75	6	8	3	9	4-6	7-8	1500
3	Birmingham	1013.7	0	S	3	c	69	92	8	8	7	-	7-8	9+	2500
	Upper Heyford	1014.3	-2	S	2	c	69	75	7	2	4	6	7-8	9+	2500
4	Ross-on-Wye	1013.2	-4	SE	3	c/pr	66	85	7	9	-	3	7-8	10	2500
5	Hartland Point	1011.8	+14	SW	3	c	64	92	8	8	4	1	4-6	7-8	1500
	Bristol	1013.5	+2	SSE	2	c/r	64	92	8	6	7	-	7-8	9+	1500
	Portland Bill	1015.1	+8	S	3	c	63	92	8	2	-	-	7-8	7-8	4000
	Plymouth	1012.9	+8	SSW	4	c	65	92	7	8	3	-	4-6	9	1500
	The Lizard	1012.8	+8	SSW	4	bc/pr	66	92	7	7	8	-	4-6	4-6	2500
	Scilly (St. Mary's)	1011.5	+8	SSW	4	c	67	92	7	8	3	-	4-6	7-8	1500
	Guernsey	1014.8	+8	SSW	4	bc	68	75	8	2	7	-	1	2-3	1500
6	Pembroke	1014.6	-2	SSE	3	c	64	92	7	8	-	-	7-8	7-8	1500
7	Holyhead	1011.9	+4	-	0	pr₀	66	75	7	6	7	-	7-8	9+	1500
	Chester (Sealand)	1012.7	-4	SE	3	c	71	65	7	2	7	-	7-8	9	4000
8	Manchester	1013.4	-2	S'E	2	z₀	71	65	6	1	3	1	1	9	4000
10	Spurn Head	1013.1	0	WSW	1	m	65	92	4	5	-	-	9+	9+	220
	Catterick	1013.8	-6	-	0	c/r	62	92	5	8	7	-	7-8	10	800
	Tynemouth	1014.0	-4	N	3	of	58	97	3	5	-	-	10	10	1500
11	St. Abbs Head	1014.6	-2	NW	2	f/pr	58	97	3	5	-	-	10	10	800
	Leuchars	1014.5	-6	E	1	m	63	97	4	-	2	-	10	10	450
12	Renfrew (Abbotsl.)	1014.2	-6	E'S	3	z₀	66	85	6	5	7	-	7-8	9+	1500
	Eskdalemuir	1012.9	-4	NE'N	3	c	68	75	7	8	7	-	7-8	9+	1500
	Point of Ayre	1012.7	-2	ESE	3	c	64	85	6	-	3	-	0	7-8	-
13A	Tiree	1013.2	0	SE	2	c	62	85	7	5	-	-	9+	9+	2500
13B	Stornoway	1015.7	0	E	2	c	63	85	7	5	1	-	7-8	10	4000
15	Dalwhinnie	1014.9	-8	N	1	ir₀	65	75	8	-	1	-	0	10	-
	Aberdeen	1015.8	-2	ESE	1	bc	62	92	6	5	3	8	2-3	4-6	450
	Wick	1016.1	-2	SE	1	c	59	97	5	5	2	-	9	10	800
16	Lerwick	1019.0	-18	SE'S	3	bc	65	85	6	5	-	-	4-6	4-6	800
17	Blacksod Point	1009.6	-4	SE	3	c	67	75	7	-	4	-	0	7-8	-
18	Malin Head	1012.5	0	E	3	z₀	60	92	6	3	8	-	4-6	7-8	4000
	Aldergrove	1012.0	-4	E	3	z₀	68	75	5	5	3	-	9+	10	2500
19	Birr Castle	1010.5	0	SSE	3	c	67	75	8	8	1	-	7-8	9+	1500
20	Valentia Obsy.†	1008.7	+10	W'S	1	c	67	85	8	8	-	-	9	9	1500
	Roches Point	1009.2	+6	SE	3	c	67	92	8	8	-	-	10	10	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1015.2	-4	SSW	4	bc/pr	68	75	8	8	-	-	4-6	4-6	2500	0	*
Croydon	1015.2	+2	S'W	3	c	68	75	8	2	4	-	4-6	7-8	2500	1	*
S. Farnborough	1015.2	+4	S'W	3	bc	65	85	8	3	3	-	2-3	2-3	2500	1	*
Boscombe Down																*
Calshot (Soton.)	1015.1	+2	SSW	3	bc	67	85	8	2	3	5	1	2-3	1500	0	2
Lympne	1016.1	-2	SW'S	3	bc	67	75	8	2	-	3	tr	2-3	4000	0	§ 0
Manston	1016.2	+6	W'N	4	bc	59	65	7	2	3	6	tr	4-6	2500	0	*
Shoeburyness	1015.4	+2	SSW	4	bc	69	75	8	2	6	6	1	4-6	2500	0	*
Felixstowe																
Gorleston	1014.3	0	S	2	c	67	85	6	5	8	-	7-8	7-8	2500	0	1
Mildenhall																*
Cranwell	1013.4	-2	SW	1	c	68	75	7	8	8	3	2-3	9+	1500	1	*
Birmingham	1013.3	-4	SSE	3	bc	66	75	8	8	5	-	4-6	4-6	2500	0	*
Upper Heyford																*
Ross-on-Wye	1013.1	0	S'W	2	c	65	85	7	8	3	-	9	9+	2500	1	*
Hartland Point	1012.2	+4	WSW	4	c	64	92	8	8	7	-	4-6	7-8	1500	1	2
Bristol	1013.4	+6	S	3	bcjp	65	85	7	5	4	1	4-6	4-6	1500	1	*
Portland Bill	1015.0	+4	SW	3	c	62	92	8	5	-	-	10	10	4000	1	2
Plymouth	1013.9	+6	SW	4	z₀	64	92	6	6	3	-	9	9+	800	1	2
The Lizard	1013.5	+4	SW'S	3	c	64	92	8	8	7	-	7-8	7-8	2500	1	3
Scilly (St. Mary's)	1012.6	+4	SW	4	c	65	92	8	8	7	5	4-6	9	2500	1	3
Guernsey	1015.4	+12	S	2	c	65	85	8	8	7	-	4-6	7-8	1500	0	2
Pembroke	1014.0	0	SW'S	3	c	63	97	7	5	2	-	7-8	9+	1500	1	2
Holyhead	1011.2	-2	SSE	2	tir₀	66	85	6	9	-	-	9+	9+	2500	1	0
Chester (Sealand)	1012.4	-2	SE'E	2	c/r	67	85	7	5	7	-	7-8	7-8	4000	0	*
Manchester	1012.8	+2	SSW	2	bc	68	75	7	8	3	-	2-3	4-6	4000	0	*
Spurn Head	1013.0	0	SE'E	3	c	62	92	6	5	4	-	4-6	7-8	450	0	1
Catterick																*
Tynemouth	1013.5	-4	NE	2	f	58	97	2	5	-	-	10	10	1500	1	1
St. Abbs Head	1014.1	-4	E	1	F+	59	97	0	-	-	-	0	10	<150	0	1
Leuchars	1014.0	+2	-	0	f+	60	97	3	-	-	-	0	10	<150	1	*
Renfrew (Abbotsl.)	1012.9	-6	ENE	3	z₀	63	85	6	5	3	-	7-8	9	2500		*
Eskdalemuir	1012.5	-2	NE'E	1	e	63	85	7	5	7	6	4-6	7-8	1500	1	*
Point of Ayre	1012.0	+6	SE	1	c	67	85	7	5	3	-	4-6	9+	2500	0	1
Tiree	1012.6	-2	SE'E	2	bc	61	92	7	5	3	-	1	2-3	4000	0	1
Stornoway	1014.9	-2	NE	1	c	62	85	7	5	4	6	2-3	7-8	4000	0	1
Dalwhinnie	*	+2	SSE	5	c	66	75	7	8	2	-	4-6	10	2500	0	*
Aberdeen	1015.8	+4	E	1	c	61	92	6	5	-	-	9+	9+	450	0	1
Wick	1015.8	+2	SE	3	c	59	97	5	5	2	-	7-8	10	800	1	2
Lerwick	1018.4	+8	S'E	3	c	61	92	7	5	3	-	4-6	7-8	800	0	*
Blacksod Point	1009.5	-8	-	0	bc	68	75	8	2	-	-	4-6	4-6	1500	0	1
Malin Head	1011.8	-4	E	3	z₀	63	85	5	8	8	-	4-6	7-8	4000	0	2
Aldergrove																*
Birr Castle	1009.6	+2	SSE	2	c	69	75	8	3	3	-	2-3	7-8	1500	0	*
Valentia Obsy.†	1009.9	+6	SW'W	2	c	64	85	8	5	-	-	9+	9+	1500	0	1
Roches Point	1009.9	+6	SSW	3	c/pr	64	97	8	8	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 26th (37)	Weather 13h.—18h. 26th (38)	Weather 18h 26th to 1h. 27th (39)	Weather 1h.—7h. 27th (40)
London (Kew)	cfem₀c	cbcpr₀	bcb	bbccw
Croydon	em₀bcd	bcdc	cbccw	cw
S. Farnborough	omfc	cpr₀PRb	bmcm₀	cm
Boscombe Down	Fomem₀c		ccm₀	ombcmw
Calshot (Soton.)	cpr₀m₀	cir₀cb	b₀c	ceicc
Lympne	Febcm₀	cbc	bwfg	bcwfcm₀
Manston	cm₀bcd	bcdcbc	bcbwc	
Shoeburyness	bmbc	bc	bcbw	bcbwc
Felixstowe	om₀bm₀		bc	bmwbc
Gorleston	offecz₀	cz₀	cbc	bcw
Mildenhall	om₀cm₀		cb₁c	ccigc
Cranwell	ocm₀z₀	o	bc	bccfcm
Birmingham	mbcc	cbc	bcc	cbcpr₀
Upper Heyford	cmbcm₀c		Pccprc	cbcwrc
Ross-on-Wye	Fomcp	cpbccRc	p₀c	bccbc
Hartland Point	cp	c	c	c
Bristol	cr₀m₀R	cbcjp	bccRRc	cbcc
Portland Bill	cpr	c	o	oc
Plymouth	cm₀c	cbccm₀	cmc	ccm₀id
The Lizard	pr₀bc	bcc	cw	cff₀
Scilly (St. Mary's)	bcp₀c	c	cbcw	bccw
Guernsey	czr₀	bcc	c	c
Pembroke	cir₀	c	c	cq
Holyhead	om₀prc	cprbc	cprc	cprm₀c
Chester (Sealand)	owcm₀	cr₀	pr₀lcfgm	fgmmw
Manchester	bcfcm₀z₀	cpr₀ctlbc	cbc	bccm₀w
Spurn Head	fm	moc	cbc	bcfo
Catterick	mir₀cm₀		cmftF	pFc
Tynemouth	off	offid	offirtl	off
St. Abbs Head	prFf	prtF	Ftlr	
Leuchars	offid₀m	fftlroff	fmTlr₀m₀	cir₀mtlr
Renfrew (Abbotsl.)	om₀ir₀	cm₀	cm₀	cmir₀rc
Eskdalemuir	r₀r₀ct	ctir₀c	ctlr₀c	cwm₀
Point of Ayre	cz	c	c	c
Tiree	c	bc	bc	bccw
Stornoway	c	c	c	c
Dalwhinnie	c	c	*	cRrc
Aberdeen	offd₀ombc	bccz₀	omif	com₀if
Wick	cm₀	cm₀	cm₀F	Ffc
Lerwick	offebc	bcc	cbc	bcc
Blacksod Point	bc	bc	bc	bc
Malin Head	z	z	z	cz₀zbc
Aldergrove	ofmcm₀		bczobm	mm₀bcm
Birr Castle	cpr₀c	c	c	c
Valentia Obsy.†	bccpr₀c	c	cpr₀c	cbcwbc
Roches Point	idrprc	bcp₀c	cpr₀c	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.

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.*

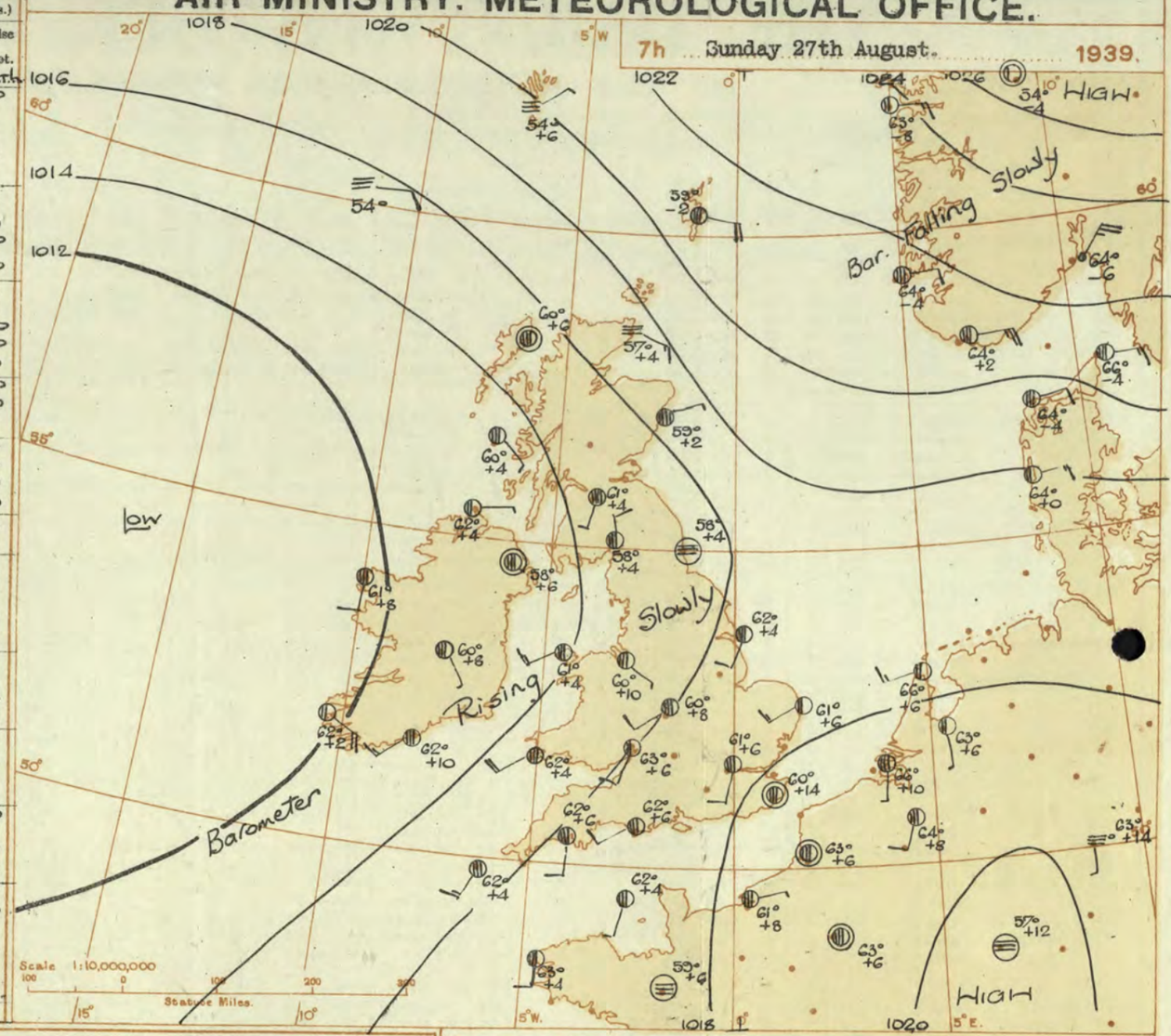
§ Sea disturbance reported from Dungeness.

AIR MINISTRY. METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for August 26th 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 25th to 9h. 26th	Temperature. (°F) Max. 9h.—17h. 26th	Rainfall. (mm.) Night. 17h. 25th to 9h. 26th	Rainfall. (mm.) Day. 9h.—17h. 26th	Sunshine. (Hrs.) Sunrise to 17h. 26th	Sunshine. (Hrs.) Sunrise to Sunset. 25th
1	Tunbridge W.	bc	bcdbc	54	73	Trace	-	8.3	0.0
	Bournemouth	c	cpbc	54	68	-	Trace	1.4	*
	Ventnor ...	co	bopbc	58	73	-	0.5	2.7	5.1
	Southsea ...	cpc	cpc	57	68	-	0.2	3.2	7.4
	Bognor Regis	bec	crbcb	55	69	-	Trace	3.5	*
	Littlehampton	bc	bcpbc	54	69	-	Trace	4.4	1.5
	Worthing ...	cbc	cbc	57	68	-	-	3.2	1.7
	Brighton ...	acbc	bc	60	68	-	-	4.9	0.9
	Eastbourne†...	mac	cbcb	59	70	0.1	-	4.9	0.0
	Hastings† ...	acbc	cbc	59	69	-	-	4.0	0.0
	Folkestone ...	mbc	bcm	58	69	-	-	6.7	0.2
	Dover ...	bc	bc	59	67	-	-	5.6	0.1
	Deal	b	b	59	74	-	-	10.6	0.0
	Ramsgate ...	bc	bc	60	73	-	-	10.2	0.0
	Margate ...	bc	bc	60	76	-	-	9.9	0.0
2	Southend ...	b	bbcc	61	81	-	-	9.2	0.0
	Clacton-on-Sea	cbcmz	bc	60	74	-	-	6.6	0.0
	Dovercourt ...	oc	bc	62	75	-	-	5.9	3.3
	Lowestoft ...	bfbzc	cbc	59	72	-	-	3.3	8.0
	Skegness ...	om	acb	56	69	-	-	2.5	0.0
	Mablethorpe...	oz	cbcm	55	71	0.3	-	2.1	0.0
	Cleethorpes ...	rom	acbc	57	68	-	Trace	0.5	0.0
3	Leamington S.	c	cpc	59	74	-	1	4.0	0.6
4	Cheltenham†	wco	acirt	55	68	-	1	1.3	3.4
5	Bath	dc	cRbc	54	71	Trace	6	1.4	2.0
	Weymouth ...	mc	pcbec	55	68	0.6	1	1.3	3.0
	Jersey ...	pcbc	bcpb	63	73	0.3	1	5.6	6.2
	Torquay ...	orpc	bcc	61	69	1	0.2	1.7	5.7
	Falmouth ...	cvbcc	cpbcc	61	69	13	Trace	4.3	5.8
	Penzance ...	rccr	rbcc	61	68	14	3	3.5	6.1
	St. Ives ...	pr	c	55	69	14	2	5.7	7.6
	Bude... ...	rcp	prc	57	69	9	1	1.8	7.4
	Ilfracombe ...	pcbcc	bcrrc	59	70	1	18	2.0	1.8
6	Aberystwyth	bcprc	cbcpr	58	69	0.3	1	3.4	5.0
7	Llandudno ...	c	cbcr	58	74	-	0.5	2.4	5.4
	Colwyn Bay...	cbc	bcbbc	62	75	-	-	2.1	5.6
	Rhyl	bccm	bc	58	76	-	Trace	3.4	3.3
8	Wallasey ...	c	cpc	60	72	-	Trace	2.1	0.0
	Southport ...	wfbcmc	czcpc	57	73	Trace	0.2	1.3	0.1
	Blackpool ...	cmm	cmp	58	74	-	Trace	3.8	0.0
	Morecambe ...	cbc	bc	61	75	Trace	-	3.7	0.6
9	Ilkley... ...	opbc	obco	59	71	3	Trace	1.5	0.0
	Harrogate ...	rc	c	58	67	5	0.2	0.9	0.0
10	Berwick-on-T.	omr	brfa	56	61	-	0.2	0.1	*
11	Dunbar ...	cm	cmrtl	55	61	-	2	0.0	*
12	Troon... ...	cbcc	optro	59	71	-	0.5	3.2	*
	Douglas ...	cm	bcm	60	68	-	-	2.3	0.3

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate southerly winds, cloudy and bright periods; local showers; early morning mist or fog; rather warm and close.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate southerly winds, cloudy, some bright periods and showers; local coast drizzle and fog, more continuous rain later; rather warm and close.
9 N. Midlands ...	As 1 - 4.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light variable or southeast winds veering to south, dull with occasional thundery rain, becoming fairer later; rather warm and close.
13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Moderate southeast winds, cloudy, occasional thundery rain, local coast fog; warm and rather close.
17 N. W. Ireland 18 N. E. Ireland	As 10 - 13A.
19 S. E. Ireland 20 S. W. Ireland	As 5 - 8.

GENERAL INFERENCE.

A complex low pressure area is situated to the west of Ireland while a trough of low pressure over Southern Scotland and Northern England is moving slowly north. Weather at first in Scotland will be dull with thundery rain and fog in east coast areas; fairer conditions will spread from the South. Elsewhere there will be bright periods and showers with coastal fog and drizzle in west and southwest districts. More continuous rain will probably reach southwest districts later. It will be rather warm and close in most areas.

FURTHER OUTLOOK.

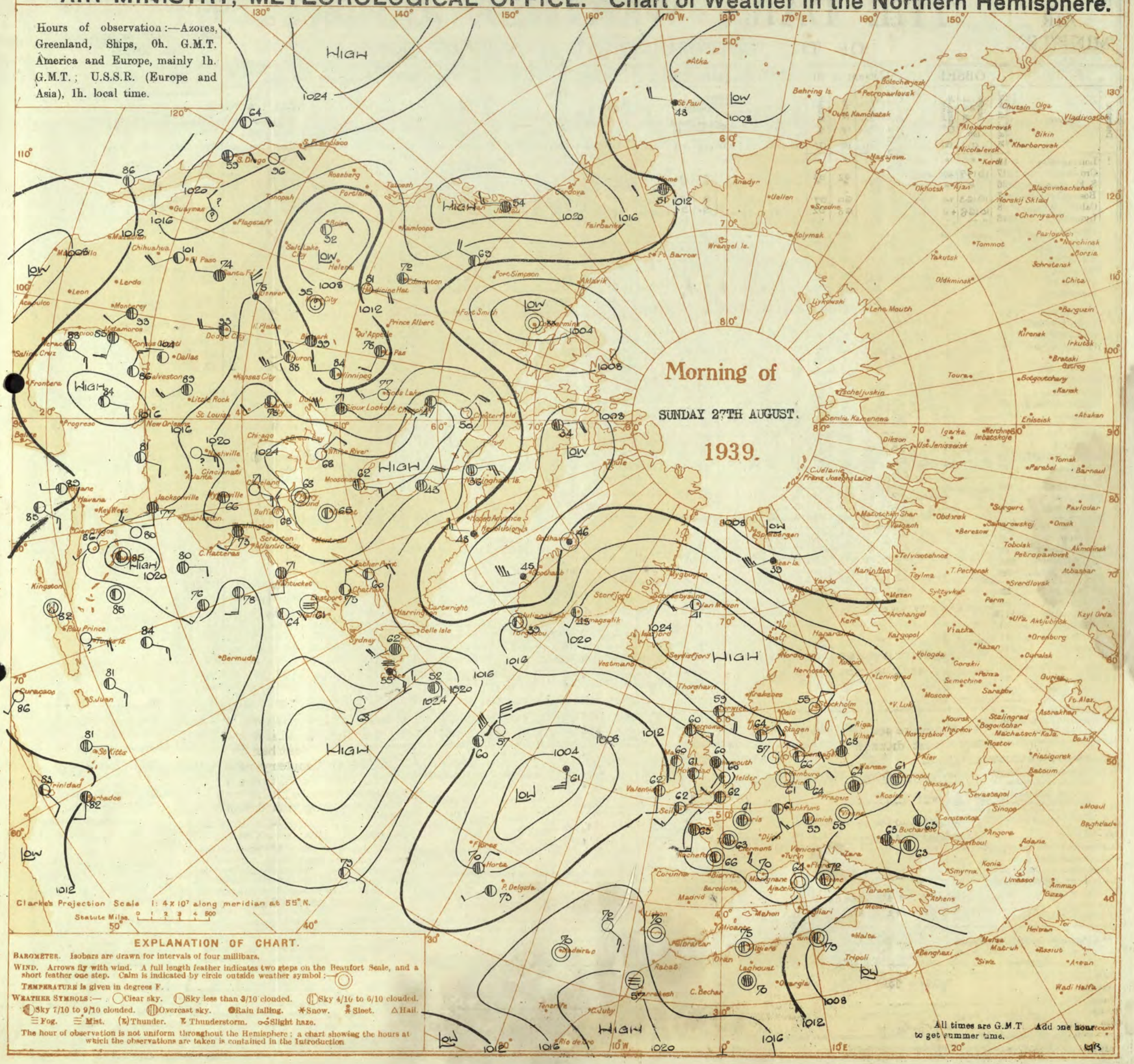
Rather unsettled.

Forecasts issued at 1100 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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 27th August, 1939.
No. 28402

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1017.9	+8	SWW	1	c	62	92	8	5	-	-	9+	9+	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1016.3	+4	SW	2	z	60	97	6	5	3	-	9	9+	7200
	Calshot (Sthmtn.)	8	1016.8	+4	SSW	2	c	63	92	7	5	-	-	9+	9+	1500
	Lympne	346	1017.7	+2	SWW	1	fg	60	97	6	-	4	1	0	4-6	-
	Manston	154	1017.0	0	S	2	c	62	92	7	5	-	-	9+	9+	5700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1016.1	+8	S'W	2	bc	61	92	7	-	3	-	0	4-6	-
	Mildenhall	19	1015.7	+2	ESE	2	c	62	92	7	5	3	-	9	9+	4000
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1014.7	+6	SW	4	c	62	92	8	6	8	-	2-3	7-8	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1016.0	+12	WSW	3	o	62	85	7	5	-	-	10	10	4000
	Plymouth	82	1015.7	+2	S'W	3	c	63	97	7	5	7	-	4-6	9+	2500
	The Lizard	240	1015.4	+4	SSW	3	c	62	97	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1014.7	+4	SSW	3	bc	62	97	8	2	7	1	2-3	4-6	2500
	Guernsey	175	1017.2	+2	-	0	c	61	97	8	2	1	-	4-6	7-8	1500
6	Pembroke	142	1014.6	+4	SW	4	c	63	97	7	5	2	-	7-8	10	1500
7	Holyhead	26	1012.6	+2	S'E	2	c	61	92	8	8	8	-	7-8	9	2500
	Chester (Sealand)	16	1014.4	+0	SSE	1	m	60	97	4	5	3	-	4-6	9	4000
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1014.3	+2	SSW	2	bc	60	97	6	5	4	-	2-3	4-6	800
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1014.2	+4	SE	1	of	60	97	3	5	-	-	10	10	1500
11	St. Abbs Head	280	1014.2	0	S	1	F	59	97	0	-	-	-	10	10	<150
	Leuchars	36	1014.8	+2	NE	2	if	59	97	5	6	-	-	10	10	450
12	Renfrew (Abbots I.)	19	1014.4	+4	E	2	z	61	92	6	5	3	-	9	10	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1012.9	+2	NW	1	c	61	97	8	5	-	-	9+	9+	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1014.3	+4	ESE	3	c	60	85	7	5	7	-	7-8	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1016.7	+4	SE	3	F+	58	97	1	-	-	-	10	10	<150
16	Lerwick	156	1020.7	+6	SE	4	bc	59	92	7	5	3	-	2-3	4-6	2500
17	Blacksod Point	18	1010.4	+4	-	0	c	61	92	8	-	5	-	0	7-8	-
18	Malin Head	84	1012.5	+2	S	1	z	60	92	6	8	8	-	4-6	7-8	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1011.1	+10	S	2	c	62	97	8	8	-	-	9+	9+	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1017.9	+10	SSW	2	c	63	85	7	-	5	8	0	9+	-	0	*
	Croydon	1017.6	+6	S'W	2	c	61	92	7	5	7	-	Tr	7-8	2500	1	*
	S. Farnborough	1017.6	+10	-	0	z	61	97	6	5	7	-	2-3	9+	1500	1	*
	Boscombe Down	1017.1	+8	S'E	2	z	60	97	6	5	7	-	7-8	9+	450	1	*
	Calshot (Sthmtn.)	1017.6	+8	S'W	3	c	64	92	7	5	5	9	2-3	9+	1500	0	1
	Lympne	1018.4	+14	-	0	c	60	97	6	2	7	6	Tr	9+	2500	0	§1
	Manston																*
2	Shoeburyness	1017.6	+10	WSW	3	c	63	85	7	-	7	-	0	9+	-	0	*
	Felixstowe	1017.4	+8	SW	3	z	63	92	6	-	3	8	0	10	-	0	1
	Gorleston	1016.9	+6	SW	3	bc	61	92	7	-	3	-	0	2-3	-	0	2
	Mildenhall	1016.7	+6	SW	2	c	62	92	7	5	3	1	4-6	9+	5700	1	*
	Cranwell	1015.4	+8	SSW	2	c	62	92	6	5	3	-	4-6	9	4000	1	*
3	Birmingham	1016.4	+8	SW	2	c/pr	60	97	7	5	7	-	7-8	9+	1500	0	*
	Upper Heyford	1016.9	+8	SW'S	2	c	61	97	7	5	-	-	9+	9+	800	1	*
4	Ross-on-Wye	1015.9	+6	SSW	2	bc	63	85	7	5	-	-	4-6	4-6	4000	1	*
5	Hartland Point	1015.5	+8	SW	3	c	62	97	8	5	4	-	4-6	7-8	2500	1	2
	Bristol	1016.4	+8	SSW	3	c	61	92	7	5	7	-	4-6	7-8	1500	1	*
	Portland Bill	1016.4	+6	SW	2	c	62	92	8	5	-	-	10	10	4000	1	2
	Plymouth	1016.5	+6	S	2	c/d	62	97	6	5	3	-	9	9+	1500	1	2
	The Lizard	1016.0	+6	SSW	2	f	61	97	3	5	-	-	10	10	450	0	2
	Scilly (St. Mary's)	1014.9	+4	SSW	3	c	62	97	8	8	7	-	7-8	9+	1500	1	2
	Guernsey	1017.3	+4	S'W	1	c	62	97	8	8	3	8	4-6	9	1500	0	1
6	Pembroke	1014.6	+4	SW	4	c	62	97	7	8	6	-	7-8	9+	1500	1	2
7	Holyhead	1013.4	+4	SW	3	c	61	97	7	5	-	-	9+	9+	1500	1	1
	Chester (Sealand)	1014.9	+10	SE'S	1	z	60	97	6	8	-	-	9+	9+	4000	1	*
8	Manchester	1015.2	+8	SSE	1	z	61	92	6	8	-	-	9	9	4000	1	
10	Spurn Head	1015.5	+4	SSW	2	c	62	97	6	5	2	-	7-8	9+	450	0	1
	Catterick	1014.6	0	-	0	F	60	97	1	-	-	-	10	10	<150	1	
	Tynemouth	1014.3	+4	-	0	of	58	97	2	5	-	-	10	10	1500	1	1
11	St. Abbs Head																
	Leuchars	1014.5	+2	-	0	tlr	59	97	5	6	-	-	10	10	<150	1	
12	Renfrew (Abbots I.)	1014.5	+4	SSW	1	z	61	92	5	5	-	-	10	10	800	1	*
	Eskdalemuir	1014.2	+4	N'W	2	c	58	92	6	5	3	-	7-8	9	800	1	*
	Point of Ayre	1013.7	+6	SSE	2	c	61	97	7	5	-	-	9+	9+	2500	0	1
13A	Tiree	1013.5	+4	SE'S	1	c	60	92	7	5	-	-	9	9	2500	0	1
13B	Stornoway	1014.5	+6	-	0	c	60	92	7	5	5	6	7-8	9	4000	0	1
15	Dalwhinnie	*	+4	-	0	c	57	92	6	4	2	-	4-6	10	2500	1	*
	Aberdeen	1016.3	+2	ENE	1	if	59	97	5	5	-	-	10	10	<150	0	1
	Wick	1017.0	+4	SE	3	F	57	97	1	-	-	-	10	10	<150	1	2
16	Lerwick	1020.1	-2	ESE	4	c	59	92	7	5	7	-	7-8	10	1500	0	
17	Blacksod Point	1011.6	+8	S	2	c	61	92	8	5	-	-	10	10	800	0	1
18	Malin Head	1013.1	+4	E	1	bc	62	85	7	4	-	-	2-3	2-3	4000	0	1
	Aldergrove	1013.1	+6	-	0	z	58	97	5	5	-	-	7-8	7-8	2500	1	
19	Birr Castle	1012.7	+8	SSE	1	c	60	97	8	5	-	-	10	10	2500	0	*
20	Valentia Obsy. †	1011.9	+2	SE	4	bc	62	85	8	5	-	-	4-6	4-6	1500	0	1
	Roches Point	1013.8	+10	SW	3	c	62	92	8	5	-	-	4-6	7-8	1500	1	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 26th Hrs. (36)
1	London (Kew)	72	61	53	Tr	Tr	8.0
	Croydon	75	60	58	-	-	8.2
	S. Farnborough	72	58	54	1	-	4.3
	Boscombe Down		(56)	56		Tr	1.4
	Calshot (Sthmtn.)	69	63	60	0.5	Tr	4.8
	Lympne	70	58	53	-	Tr	9.7
	Manston	76			-		
2	Shoeburyness	76	60	48	-	-	9.8
	Felixstowe	77	60	56		-	6.7
	Gorleston	68	58	56	-	-	3.2
	Mildenhall		59	52		Tr	5.3
	Cranwell	75	57	54	Tr	0.3	2.8
3	Birmingham	71	58	55	-	0.2	3.2
	Upper Heyford		59	54		0.1	*
4	Ross-on-Wye	70	59	54	1	Tr	1.4
5	Hartland Point	65	61	58	0.5	-	4.1
	Bristol	70	58	50	3	14	2.6
	Portland Bill			*	Tr	-	*
	Plymouth	66	62	59	4	Tr	1.6
	The Lizard	68	61	*	0.2	Tr	3.7
	Scilly (St. Mary's)	69	61		0.3	-	8.1
	Guernsey	71	58	55	Tr	-	6.8
6	Pembroke	66	61	*	1	-	2.6
7	Holyhead	72	60	58	1	1	4.0
	Chester (Sealand)	71	59	56	0.1	Tr	0.9
8	Manchester	74	57	51	Tr	-	2.0
10	Spurn Head	68	60	*	-	-	1.3
	Catterick		59	57		0.4	0.0
	Tynemouth	60	58	57	0.1	0.5	0.0
11	St. Abbs Head				0.2		
	Leuchars	64	59	58	10	7	0.0
12	Renfrew (Abbots I.)		59	53		1	1.7
	Eskdalemuir	69	54	53	1	0.5	2.7
	Point of Ayre	68	60	*	-	-	1.6
13A	Tiree	67	56	54	-	-	4.4
13B	Stornoway	65	58		Tr	-	1.3
15	Dalwhinnie	72	53	49	Tr	3	1.2
	Aberdeen	68	58	55	Tr	-	1.2
	Wick	61	57	*	-	Tr	*
16	Lerwick	65	58	*	-	-	4.1
17	Blacksod Point	71	59	*	-	-	*
18	Malin Head	64	56	*	-	-	2.7
	Aldergrove	*	52	46		-	2.6
19	Birr Castle	70	58	51	0.3	-	3.0
20	Valentia Obsy. †	69	59	53	0.1	Tr	2.7
	Roches Point	69	61		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.	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	cfemc	cbepr	bcbw	72	61	53	Tr	Tr	8.0	*	*	8
Croydon	217	cmbcy	bcyc	cbcew	75	60	58	-	-	8.2	*	*	8
Greenwich (Royal Observatory)	149	bc	bcc	bc	76	60	49	-	-	8.2	66	76	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	7.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	74	63	53	-			73	81	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*									*
Camden Square	110	bc	bc	*	74	62	57	-	-		*	84	*
Kensington	80	bc	bc	*	75	62	54	-	Tr		At 18h. 75	80	*
Hampstead Observatory	450	bc	bcp	bc	73	60	58	Tr	-	5.8		86	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 27th

South Kensington.

Max.	Time.	Min.	Time.
<0.3 whole period			

Kew Observatory.

Max.	Time.	Min.	Time.
0.1	7-9h. 26th	<0.1	rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. August 26th Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. August 27th 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						1019.1	-	0	z	63		59		-
Brussels						1018.6	SSW	2	c	64		*		-
Berlin						1016.9	-	0	z	66		59		-
Zurich	1017.6	SSE	1	bc	68	1019.8	N	1	z	61	72	59	0.3	-
Rome						1014.4	-	0	b	68		*		-

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 28th August, 1939.
No. 28403

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)…	1018.3	0	SW'W	2	c	71	65	8	8	3	1	4-6	9+	2500
	Croydon …	1018.2	+2	SW	2	c	72	55	8	2	8	3	7-8	9	4000
	S. Farnborough	1018.1	0	SW	3	c	72	55	8	8	3	–	7-8	9	4000
	Boscombe Down	1018.1	+2	S	3	c/pr	66	92	7	8	–	–	7-8	9	2500
	Calshot (Soton.)	1018.4	+2	SSW	4	c	72	75	9	2	4	–	4-6	7-8	2500
	Lympne …	1019.0	+2	SE	2	c	67	85	8	8	7	3	4-6	9	4000
	Manston …	1018.7	+2	S	1	c	70	75	8	8	7	8	2-3	9	2500
2	Shoeburyness …	1018.5	-6	SW	2	c	75	65	8	2	9	2	2-3	7-8	800
	Felixstowe …	1018.2	+2	S'W	4	bc	73	75	8	8	3	2	2-3	4-6	2500
	Gorleston …	1017.9	0	S'W	4	c	70	75	7	8	–	–	7-8	7-8	2500
	Mildenhall …	1017.5	+2	WSW	3	c	72	65	8	8	3	1	4-6	7-8	4000
	Cranwell …	1016.3	+2	SSW	3	bc/pr	73	65	8	8	3	–	2-3	4-6	1500
3	Birmingham …	1017.1	+2	SSW	3	c	70	65	8	8	7	–	4-6	7-8	2500
	Upper Heyford	1017.7	0	WSW	2	c/pr	68	85	8	8	3	–	4-6	7-8	1500
4	Ross-on-Wye …	1016.5	0	SW	3	bc	73	65	8	1	–	–	2-3	2-3	4000
5	Hartland Point	1016.5	+2	W	3	bc	66	85	8	2	3	–	2-3	4-6	2500
	Bristol …	1017.5	+6	SSW	3	bc	68	75	8	8	–	–	4-6	4-6	2500
	Portland Bill …	1019.1	+16	SSW	2	bc	64	85	8	5	–	–	4-6	4-6	4000
	Plymouth …	1018.1	+10	S'W	2	c	65	92	8	5	–	–	10	10	1500
	The Lizard …	1017.6	+8	S'E	2	1f	64	97	3	5	–	–	10	10	800
	Scilly (St. Mary's)	1016.3	+6	S'E	3	c	66	92	7	5	–	–	10	10	1500
	Guernsey …	1018.5	+2	S'W	2	c	70	75	8	8	3	–	4-6	7-8	2500
6	Pembroke …	1014.7	+4	S	2	c	65	92	7	8	6	–	4-6	7-8	1500
7	Holyhead …	1015.3	+6	SSW	3	c	66	85	8	2	3	–	1	9+	4000
	Chester (Sealand)	1016.3	+4	–	0	pr	68	65	8	8	7	–	4-6	9	2500
8	Manchester …	1016.9	+8	WSW	4	PR	64	85	4	9	–	–	10	10	1500
10	Spurn Head …	1016.4	+4	S'W	1	c	76	65	6	5	4	–	4-6	7-8	1500
	Catterick …	1015.1	+2	SW	3	c	71	65	8	8	6	–	4-6	7-8	2500
	Tynemouth …	1015.4	+4	NE	1	cf	61	97	3	5	–	–	9+	9+	1500
11	St. Abbs Head…	1015.2	+2	SE	3	c	64	85	6	8	6	–	4-6	7-8	1500
	Leuchars …	1015.7	+6	NE	1	zo	64	92	5	5	1	–	7-8	10	800
12	Renfrew (Abbotsl.)	1015.3	+2	E	3	zo	69	75	6	8	4	–	7-8	9+	2500
	Eskdalemuir …	1014.7	+4	SW	3	c	66	75	7	8	–	1	7-8	7-8	2500
	Point of Ayre …	1015.4	+12	S'W	3	c	64	85	7	8	3	–	4-6	9	1600
13A	Tiree …	1014.6	+4	SSE	2	bc	68	75	7	1	3	–	Tr	4-6	4000
13B	Stornoway …	1016.0	+2	ESE	1	zo	64	85	6	1	7	7	1	9+	4000
15	Dalwhinnie …	*	+4	S	3	c	62	85	7	4	1	–	4-6	10	2500
	Aberdeen …	1016.5	0	NE	1	f	61	97	3	–	–	–	10	10	<150
	Wick …	1017.6	+4	ENE	3	f	57	97	2	–	–	–	10	10	<150
16	Lerwick…	1020.0	-2	ESE	4	c	63	85	7	5	7	–	4-6	7-8	1500
17	Blacksod Point…	1013.4	+8	SW	1	c	67	75	9	5	–	–	9+	9+	1500
18	Malin Head …	1014.5	+6	E	2	zo	62	85	7	8	–	–	7-8	7-8	4000
	Aldergrove …	1014.1	+2	SSE	1	c	69	75	7	8	–	–	9+	9+	2500
19	Birr Castle …	1013.5	+4	SSE	1	c	73	55	8	8	–	–	7-8	7-8	1500
20	Valentia Obsy.†	1012.5	0	SE	4	ido	68	85	8	5	–	–	10	10	800
	Roches Point …	1014.7	+8	S	3	c	64	92	8	5	–	–	9+	9+	1500

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

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)	1015.0	0	SW	2	c	69	75	8	8	–	9	4-6	7-8	2500	0	*
Croydon	1018.2	+2	SW'S	2	bc	70	75	8	2	4	–	1	2-3	4000	1	*
S. Farnborough	1018.1	0	SW	2	b	69	75	8	1	4	–	1	1	4000	0	*
Boscombe Down	1018.0	0	SSW	3	bc	68	75	9	3	6	9	2-3	4-6	4000	0	*
Calshot (Soton.)	1018.5	0	SSW	3	b	68	85	8	2	4	–	4-6	4-6	1500	0	1
Lympne	1018.6	-4	SW	2	c	68	75	8	2	5	–	Tr	9	4000	0	§1
Manston	1018.4	-2	SW	2	bc	70	65	8	2	3	–	1	4-6	2500	0	*
Shoeburyness	1018.1	-2	SSW	2	c	71	75	9	4	3	–	1	9	4000	0	*
Felixstowe	1018.1	-2	S	4	c	69	85	8	8	3	–	1	7-8	4000	0	2
Gorleston	1017.9	0	S'E	2	c	70	75	7	8	3	–	2-3	7-8	2500	0	2
Mildenhall	1017.3	0	WSW	3	c	71	75	8	2	3	–	1	7-8	4000	0	*
Cranwell																*
Birmingham	1016.8	0	SSW	2	c	71	55	8	8	3	–	4-6	7-8	2500	0	*
Upper Heyford	1017.7	+2	SSW	2	c	67	75	9	8	9	9	2-3	7-8	4000	1	*
Ross-on-Wye	1016.8	+4	SW	3	b	70	75	8	2	–	–	1	1	4000	0	*
Hartland Point	1016.9	-2	S	1	bc	65	92	8	6	4	–	2-3	4-6	2500	0	1
Bristol	1017.7	0	SSW	3	c	69	85	8	8	4	–	4-6	7-8	2500	1	*
Portland Bill	1018.7	-8	SW	1	bc	63	85	8	5	–	–	2-3	2-3	4000	1	2
Plymouth	1018.1	-4	S	1	c	64	92	7	5	–	–	9+	9+	1500	1	2
The Lizard	1017.4	-2	S	3	c	64	92	8	8	2	–	7-8	9+	2500	0	1
Scilly (St. Mary's)	1016.4	+2	S	4	c	64	97	7	8	–	–	10	10	1500	1	3
Guernsey	1018.5	0	S'E	1	bc	67	75	9	–	3	8	0	2-3	–	0	1
Pembroke	1014.3	-2	SE'S	3	bc	65	85	7	5	4	–	2-3	4-6	2500	1	2
Holyhead	1016.2	-2	SSW	3	c	63	92	9	8	–	–	9	9	5700	1	1
Chester (Sealand)	1016.7	-2	–	0	bc	68	75	8	8	3	–	4-6	4-6	2500	0	*
Manchester	1017.1	+2	–	0	bc	68	75	7	8	3	–	1	4-6	4000	1	*
Spurn Head	1016.5	0	SE'S	2	c	64	92	6	5	4	2	4-6	7-8	1500	0	1
Catterick	1016.2	+6	W	1	c	67	75	8	8	–	–	9+	9+	2500	1	*
Tynemouth	1015.8	0	SE	1	f/pr	60	97	3	8	–	–	7-8	7-8	1500	1	1
St. Abbs Head	1016.1	+4	SSE	3	F	59	97	1	–	–	–	10	10	<150	0	*
Leuchars	1016.1	+2	E	1	zo	62	92	6	8	1	–	7-8	10	800	1	*
Renfrew (Abbotsl.)	1015.6	+4	NE	1	c/pr	64	92	5	8	3	–	7-8	9+	2500	1	*
Eskdalemuir	1015.6	+6	SSW	3	c	64	85	8	8	3	–	4-6	7-8	2500	1	*
Point of Ayre	1016.0	+2	E'S	1	c	63	92	8	4	7	–	Tr	9+	4000	0	0
Tiree	1015.1	+2	NE'N	1	bc	63	92	7	–	3	5	0	2-3	–	0	1
Stornoway	1016.6	+8	NE	2	c	64	85	7	5	7	–	4-6	9+	4000	0	1
Dalwhinnie	1015.6	-2	S	3	c	65	75	7	4	–	1	4-6	7-8	4000	0	*
Aberdeen	1016.6	+2	SSE	2	o	60	97	5	5	–	–	10	10	220	0	1
Wick	1017.2	-4	NE	2	F	57	97	1	–	–	–	10	10	<150	1	1
Lerwick	1020.0	+2	E	3	c	60	92	7	5	7	–	7-8	10	800	0	*
Blacksod Point	1013.0	-4	N'E	1	bc	68	85	9	–	4	–	0	2-3	–	0	1
Malin Head	1014.8	0	E	1	c	63	85	7	8	6	–	4-6	7-8	2500	0	1
Aldergrove	1015.4	+8	SE	2	c	66	85	9	8	–	–	9+	9+	4000	1	*
Birr Castle	1014.3	+2	SE	2	c	70	75	8	5	7	–	4-6	7-8	2500	0	*
Valentia Obsy.†	1012.9	+2	S'E	4	c	67	85	8	5	–	–	9+	9+	1500	0	1
Roches Point	1014.6	0	SSE	3	dodo	64	97	5	5	–	–	10	10	450	1	3

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)	c	cprobc	bcb	bfofeFe
Croydon	cecr	cbcpro	bcbwf	bwfgmo
S. Farnborough	mocy	cybcb	b,w	bwofeb
Boscombe Down	cpr	cprcprobc	bcbbcwbf	bfepffeoff
Calshot (Soton.)	c	cbcb	bcmojf	bmoomf
Lympne	cmoc	cbcv	bcbvw	bw
Manston	c	cbc	bcbw	bfgbcw
Shoeburyness	cbc	bccv	cvbmw	bbcmw
Felixstowe	cmocbc	bcc	cbmo	bmowbm
Gorleston	bcc	cbcc	cbcc	cbc
Mildenhall	comoc	c	cybcc	bcwbcm
Cranwell	cmobccpo		bcbbccm	bcwomobcm
Birmingham	cprobc	bc	bcb	b,c
Upper Heyford	ccpr	ccprobc	bcbbccw	bcbmfof
Ross-on-Wye	cbc	bc	bbcc	bccofom
Hartland Point	cbc	bc	bccdd	cvc
Bristol	cdoRrobc	bc	bccmo	cbcwmfc
Portland Bill	cbc	bc	off	off
Plymouth	cmoidopr	cbcc	cidomo	oidomoc
The Lizard	cbcif	c	cproc	c
Scilly (St. Mary's)	cbcc	cidop	idoiroc	ciroido
Guernsey	c	cbc	bcc	c
Pembroke	c	cbc	ddmoo	dffFfroo
Holyhead	cofmoc	cbcc	c	forrmoc
Chester (Sealand)	moirocpr	cPRcbc	bcbmocf	cffwmbcm
Manchester	procPRm	PRcmopr	cbcm	bcmwcf
Spurn Head	oc	c	c	czc
Catterick	Ffmmoc	bcc	bc	cw
Tynemouth	off	cffpo	cffbc	bccoff
St. Abbs Head	Femo	oimFf	Ffem	Ffem
Leuchars	tlrfcmo	cmo		
Renfrew (Abbotsl.)	cmozo	czprprmo	cmovmc	cwmfg.
Eskdalemuir	cwiroc	cbc	bccwmo	cwmo
Point of Ayre	c	c	c	bcc
Tiree	bcc	cbc	bcb	bbcw
Stornoway	c	c	czo	bbmow
Dalwhinnie	c	c	c	c
Aberdeen	omff	difom	oifedo	odmoof
Wick	ff	Ffe	Ffe	idomo
Lerwick	cproc	c	oiFFe	oFemo
Blacksod Point	c	bc	bc	bc
Malin Head	cbczozc	cbczzc	cbczzbc	bc
Aldergrove	cmoc	c	cbcb	b,crorо
Birr Castle	cy	c	cprc	c
Valentia Obsy.†	bccido	cidoc	c	c
Roches Point	cide	cid	oddc	ddffe

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.

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.*

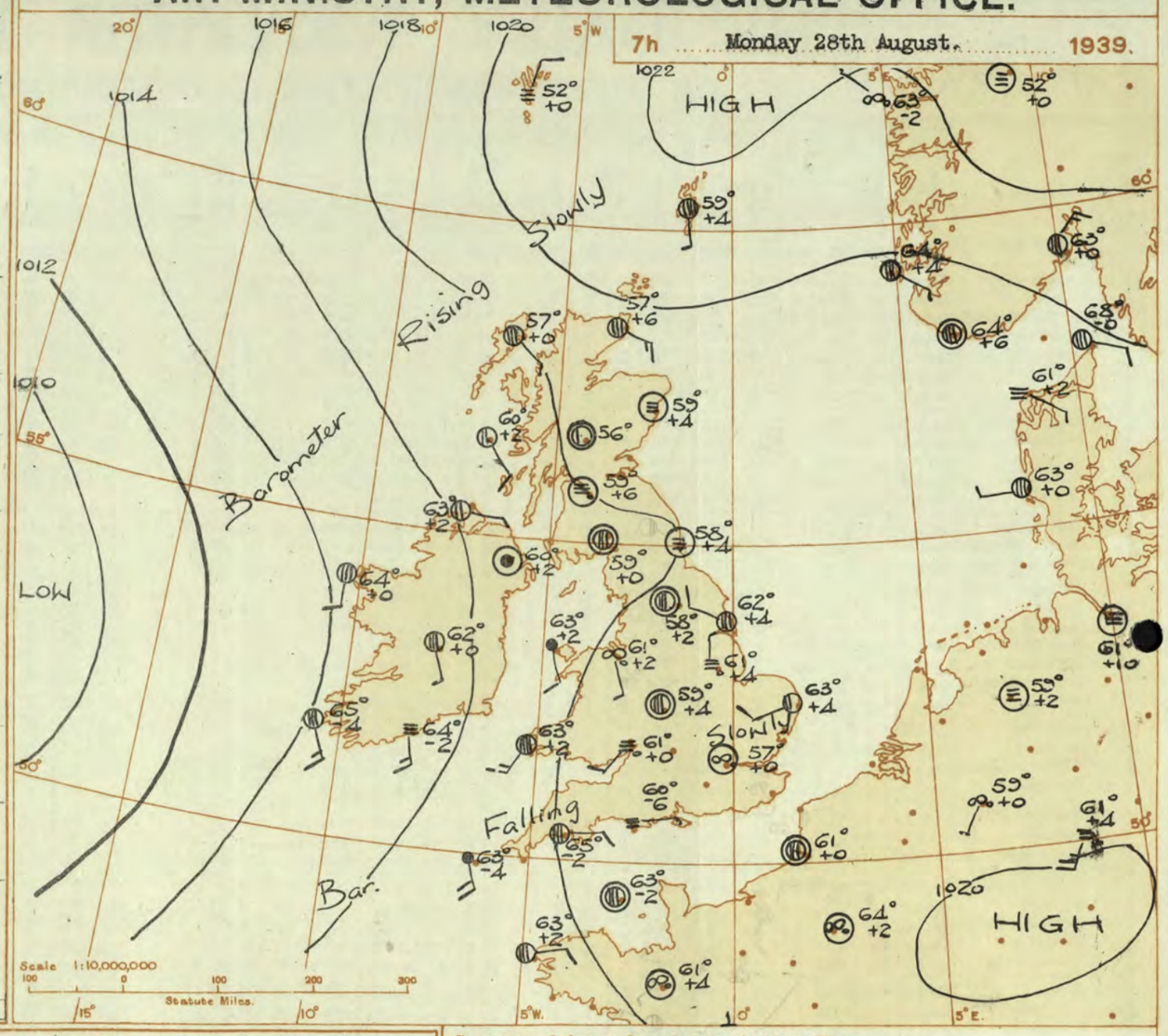
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for August 27th 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 9h. 26th to 9h. 27th	Temperature. (°F) Max. 9h.—17h. 27th	Rainfall. (mm.) Night. 17h. 26th to 9h. 27th	Rainfall. (mm.) Day. 9h.—17h. 27th	Sunshine. (Hrs.) Sunrise to 17h. 27th	Sunshine. (Hrs.) Sunrise to Sunset. 26th
1	Tunbridge W.	c	cbc	53	76	–	–	5·7	8·9
	Bournemouth	cbc	bc	61	71	–	–	3·9	1·4
	Ventnor ...	ocbc	obcbf	60	74	–	–	4·6	3·8
	Southsea ...								
	Bognor Regis	bc	bcb	62	69	–	–	5·1	4·5
	Littlehampton	bc	bcb	62	69	–	–	4·9	5·7
	Worthing ...	cbc	bcb	61	69	–	–	4·8	4·3
	Brighton ...	bc	bc	59	69	–	–	4·7	5·4
	Eastbourne† ...	cbc	bccb	59	73	–	–	7·7	6·1
	Hastings† ...	bcc	bc	58	71	–	–	8·4	5·5
	Folkestone ...	bc	bc	58	72	–	–	6·8	7·9
	Dover ...	bc	bc	61	72	–	–	6·6	6·8
	Deal	bc	cbc	59	70	–	–	5·3	11·9
	Ramsgate ...	bc	bc	61	72	–	–	3·0	11·6
	Margate ...	bc	bcc	60	76	–	–	2·7	11·4
2	Southend ...	c	cbbcc	60	83	–	–	6·1	10·3
	Clacton-on-Sea	bc	bcc	59	74	–	–	6·1	7·5
	Dovercourt ...	bc	bc	58	74	–	–	8·7	5·9
	Lowestoft ...	bc	bc	58	75	–	–	9·8	3·3
	Skegness ...	orcbc	bc	56	75	Trace	Trace	3·2	2·5
	Mablethorpe...	orbcc	bc	57	74	Trace	–	3·5	2·8
	Cleethorpes ...	rbc	bc	55	75	–	Trace	4·7	0·5
3	Leamington S.	cbc	cpc	60	74	–	0·4	7·6	4·5
4	Cheltenham†	cirbc	bc	59	75	0·5	0·3	6·2	1·3
5	Bath	bcc	pcrbc	59	71	–	5	1·6	1·7
	Weymouth ...	c	bccb	62	69	Trace	–	2·5	1·3
	Jersey ...	epbc	bc	61	73	Trace	–	6·8	6·2
	Torquay ...	wocbc	bbc	62	70	–	–	6·8	1·7
	Falmouth ...	b	c	62	70	–	–	6·3	4·3
	Penzance ...	bcb	bcc	62	71	Trace	–	4·2	3·6
	St. Ives ...	b	c	56	70	1	–	6·9	5·7
	Bude... ...	bc	bc	58	70	0·2	–	5·8	2·3
	Ilfracombe ...	cbc	bccbc	61	70	–	–	8·7	2·0
6	Aberystwyth	prcbc	bc	59	69	1	–	5·2	3·4
7	Llandudno ...	crc	c	60	69	7	0·1	0·4	2·4
	Colwyn Bay...	oc	cbc	54	72	0·3	0·3	1·0	2·1
	Rhyl	rcd	cdbc	59	72	0·5	1	0·9	3·5
8	Wallasey ..	cdcr	cbc	62	70	Trace	0·5	1·4	2·1
	Southport ...	cdc	rcbc	58	71	Trace	Trace	1·3	1·3
	Blackpool ...	emrc	cbc	59	71	–	Trace	1·1	3·8
	Morecambe ...	bcp	bc	61	69	–	2	4·6	4·1
9	Ilkley... ...								
	Harrogate ...	bccbc	bcc	57	73	–	–	7·7	1·8
10	Berwick-on-T.	ommc	cmfo	57	63	3	–	1·2	0·1
11	Dunbar ...	cmr	cmt	57	64	6	–	1·3	0·0
12	Troon... ...	bcc	bcoc	59	67	33	–	3·2	3·2
	Douglas ...	om	c	59	65	–	–	0·4	2·6

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

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. 28th, August, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind variable to southerly, light, mainly fair apart from a chance of slight rain locally; morning fog; rather warm.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Wind southerly light to moderate; cloudy, brighter periods inland later; occasional drizzle or rain, chiefly near the coasts and in the hills; local coast fog; close.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind variable, light; cloudy or dull, becoming brighter later; local coast fog at first; rather warm.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	As 4 - 9.
15 N. E. Scotland 16 Orkney and Shetland	Wind southeast, light; cloudy; local drizzle and fog; rather warm and close.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 4 - 9.

GENERAL INFERENCE.

A large low pressure area covers the Eastern Atlantic and pressure is mainly high to the eastwards of the British Isles. Weather will be mainly fair in the eastern half of England, but there will be some occasional drizzle or rain with coastal fog in most western districts. Conditions will continue rather warm and close.

FURTHER OUTLOOK.

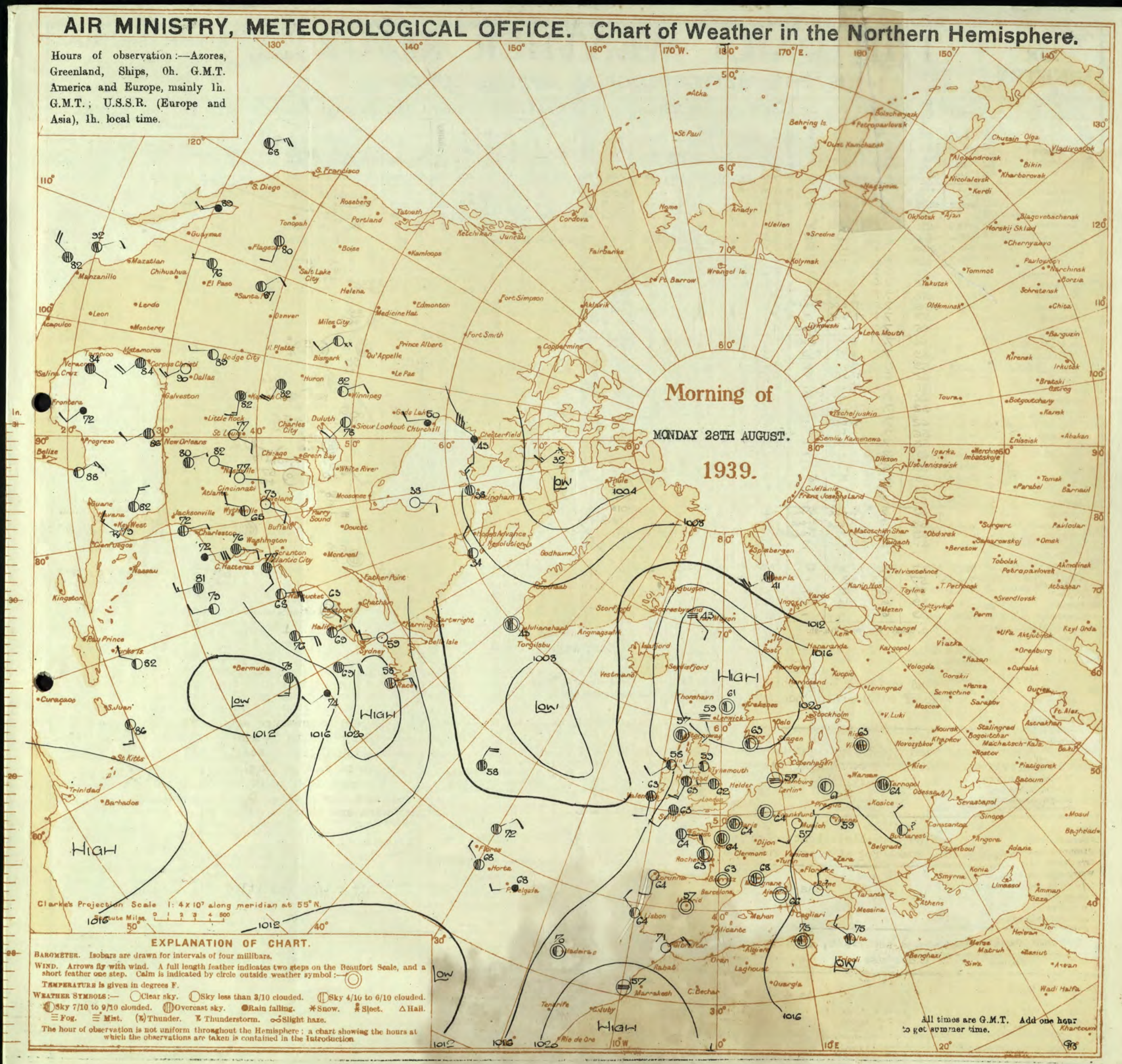
Probably rather unsettled with tendency to thunder.

Forecasts issued at 0930 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 28th August, 1939.

No 28403

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

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	1019.9	+2	S	2	bf-	58	97	3	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1019.6	+2	–	0	bf	56	97	2	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1019.6	+2	WSW	2	gf	60	97	6	5	-	-	7-8	7-8	800
	Lympne ...	346	1019.8	-2	SW	1	b	59	92	8	-	-	-	0	0	-
	Manston ...	154	1019.7	+4	SW	2	b	58	97	8	-	-	5	0	1	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1018.8	+2	SW'S	2	c	64	85	7	-	3	-	0	3	-
	Mildenhall ...	19	1018.9	+6	WSW	2	bc	60	97	8	6	3	-	2-3	2-3	4000
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1017.8	+2	S	3	c/d	63	97	7	6	2	-	7-8	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1020.1	+4	WNW	2	f	60	92	2	5	-	-	10	10	450
	Plymouth ...	82	1019.1	0	S	2	id.	63	97	6	5	-	-	10	10	800
	The Lizard ...	240	1018.3	+6	S	3	c	62	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1017.6	+4	SSW	2	c	63	97	7	5	-	-	10	10	1500
	Guernsey ...	175	1019.4	+2	-	0	c	63	97	8	-	3	8	0	7-8	-
6	Pembroke ...	142	*	0	S'E	4	dd	63	97	5	5	-	-	10	10	1500
7	Holyhead ...	26	1017.4	+2	S'E	3	c	63	92	8	5	3	-	7-8	9	4000
	Chester (Sealand)	16	1018.4	+6	–	0	cf-	57	97	3	5	-	-	9	9	7200
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1017.4	+6	W	1	c	62	92	6	4	3	-	4-6	7-8	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1017.4	+4	W	1	bc	59	97	6	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	1017.3	0	–	0	m	57	97	4	5	-	-	10	10	2500
	Leuchars ...	36														
12	Renfrew (Abbotsl.)	19	1017.3	+2	–	0	m	60	97	4	5	7	-	7-8	9+	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1017.5	+8	S	2	c	60	97	8	5	3	-	Tr	9+	800
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1017.2	+4	–	0	c	57	97	6	7	-	-	7-8	7-8	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1017.8	+4	NE	3	f	57	97	1	-	-	-	10	10	450
16	Lerwick ...	156	1020.9	+2	SSE	2	f	59	97	1	-	-	-	10	10	450
17	Blacksod Point	18	1014.2	+6	–	0	bc	62	97	8	-	4	-	0	4-6	–
18	Malin Head ...	84	1016.0	0	SW	1	bc	58	92	8	1	-	-	2-3	2-3	3700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1013.9	+6	S	2	c	63	97	8	5	-	-	7-8	7-8	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1019.7	+2	-	0	f	58	97	1	-	-	-	10	10	<150	0	*
Croydon ...	1019.9	0	–	0	z₀	57	97	6	-	4	-	0	1	–	0	*
S. Farnborough	1019.6	+2	-	0	b/f	52	97	5	-	3	-	0	1	-	0	*
Boscombe Down	1019.6	+4	-	0	of	56	97	2	5	-	-	10	10	450	1	*
Calshot (Sthmtn.)	1019.7	+2	WNW	1	of	59	97	1	5	-	-	10	10	220	0	§1
Lympne ...	1019.5	-2	N	1	z₀	62	97	6	-	4	2	0	4-6	-	0	§0
Manston ...	1019.5	+2	NW'N	1	z₀	61	92	6	-	-	2	0	4-6	-		*
Shoeburyness ...	1019.4	+2	W'S	1	m	68	97	4	-	-	2	0	2-3	-	0	*
Felixstowe ...	1019.1	+2	WNW	2	z₀	62	97	5	-	4	6	0	2-3	-	0	1
Gorleston ...	1018.8	+4	NNE	2	bc	63	92	6	-	4	1	0	4-6	-	0	1
Mildenhall ...	1018.9	+2	WSW	2	z₀	59	97	5	-	3	2	0	4-6	-	1	*
Cranwell ...	1018.8	+4	N	1	m	61	92	4	5	3	6	2-3	4-6	4000	0	*
Birmingham ...	1019.3	+4	–	0	c	59	92	5	5	9	-	2-3	9	4000	0	*
Upper Heyford	1019.7	+2	–	0	f	56	97	2	-	-	-	10	10	<150	1	*
Ross-on-Wye	1018.8	0	SW	2	m	61	97	4	5	-	-	10	10	450	0	*
Hartland Point	1017.4	0	SW	3	bc	63	92	8	6	4	-	2-3	4-6	2500	1	2
Bristol ...	1019.2	+2	–	0	e/f	59	97	6	5	-	-	2-3	7-8	800	1	*
Portland Bill ...	1020.4	-6	E	1	of-	60	86	2	5	-	-	10	10	<150	1	2
Plymouth ...	1018.3	-2	E'S	2	c	65	85	8	5	4	-	7-8	7-8	2500	1	1
The Lizard ...	1017.8	0	SE'S	2	c	62	97	7	8	2	-	7-8	9+	1500	1	2
Scilly (St. Mary's)	1016.8	-4	SSE	4	id₀	63	97	6	5	2	-	7-8	10	1500	1	2
Guernsey ...	1018.9	-2	-	0	c	63	85	8	-	3	-	0	7-8	-	0	1
Pembroke ...	1014.4	+2	SW	3	o/f	63	97	6	5	-	-	10	10	450	1	2
Holyhead ...	1017.3	+2	SSE	2	rr	63	97	6	6	2	-	9	10	450	1	1
Chester (Sealand)	1018.2	+2	SSE	1	z₀	61	92	5	5	-	-	7-8	7-8	4000	0	*
Manchester ...	1018.5	+2	NE	1	cf	59	92	3	5	9	-	9	9+	4000	1	*
Spurn Head ...	1018.6	+4	NW'W	2	c	62	92	6	4	6	-	4-6	7-8	1500	0	1
Catterick ...	1018.3	+2	-	0	c	58	97	7	5	-	-	9+	9+	2500	1	*
Tynemouth ...	1017.7	+4	–	0	of	58	97	2	5	-	-	10	10	1500	1	1
St. Abbs Head	1017.8	+6	-	0	m	57	97	4	5	-	-	10	10	1500	1	0
Renfrew (Abbotsl.)	1018.1	+6	–	0	m	59	97	4	5	-	-	4-6	9+	1500	1	*
Eskdalemuir ...	1017.8	0	-	0	c	59	92	6	5	-	-	9+	9+	1500	1	*
Point of Ayre...	1017.7	0	S	2	c	61	97	8	8	-	-	9+	9+	1500	0	1
Tiree ...	1016.3	+2	SE'S	2	bc	60	92	7	5	3	-	2-3	4-6	4000	0	2
Stornoway ...	1017.5	0	SE	1	b	57	97	5	5	-	-	Tr	Tr	2500	1	1
Dalwhinnie ...	1018.7	+6	–	0	c	56	97	6	5	-	-	9+	9+	2500	0	*
Aberdeen ...	1018.7	+4	–	0	f+	59	97	2	-	-	-	10	10	<150	0	1
Wick ...	1018.6	+6	SE	3	c	57	97	6	5	2	-	9	10	800	1	1
Lerwick ...	1021.4	+4	S	1	0	59	97	6	5	-	-	10	10	220	0	*
Blacksod Point	1014.0	0	S	2	c	64	92	8	5	-	-	7-8	7-8	1500	0	2
Malin Head ...	1016.0	+2	ESE	1	bc	63	80	8	4	5	-	2-3	4-6	4000	0	1
Aldergrove ...	1016.5	+2	–	0	r₀r₀	63	97	7	5	-	-	9+	9+	1500	1	"
Birr Castle ...	1015.0	0	SSE	1	c	62	97	8	5	-	-	9+	9+	2500	0	*
Valentia Obsy. †	1014.2	-4	SSE	3	c	65	85	8	5	5	-	7-8	9	800	0	1
Roches Point	1015.6	-2	S'E	3	f	64	97	3	5	-	-	10	10	<150	1	3

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 24 Hrs. (36)
London (Kew)	74	58	49	Tr	Tr	4.4
Croydon ...	77	54	52	Tr	-	5.1
S. Farnborough	74	47	42	–	Tr	6.6
Boscombe Down	70	55	51	1	0.2	3.0
Calshot (Sthmtn.)	74	59	57	–	-	5.9
Lympne ...	73	58	51	-	-	*
Manston ...	74			–		
Shoeburyness ...	77	59	48	–	-	5.4
Felixstowe ...	73	58	53	–	-	7.8
Gorleston ...	76	62	60	–	-	8.5
Mildenhall ...	75	55	49	–	Tr	6.5
Cranwell ...	55	54	50		0.6	7.4
Birmingham ...	73	57	48	0.1	-	9.7
Upper Heyford	72	53	48	0.4	-	*
Ross-on-Wye	74	56	52	–	-	7.8
Hartland Point	69	62	60	–	0.2	3.2
Bristol ...	71	54	47	2	–	4.6
Portland Bill ...	64	58	*	-	-	*
Plymouth ...	67	63	61	0.2	Tr	2.2
The Lizard ...	67	61	*	–	0.2	2.9
Scilly (St. Mary's)	69	63	*	0.5	0.4	3.8
Guernsey ...	72	61	55	-	-	7.5
Pembroke ...	68	61	*	–	1	6.4
Holyhead ...	68	61	58	-	1	0.9
Chester (Sealand)	70	57	50	3	-	2.0
Manchester ...	70	51	47	4	Tr	1.2
Spurn Head ...	78	62	*	–	-	5.5
Catterick ...	72	53	50	Tr	-	2.9
Tynemouth ...	62	57	51	0.1	-	0.0
St. Abbs Head	61	55	*	Tr	0.2	*
Leuchars ...	65			1		
Renfrew (Abbotsl.)	70	58	55	0.6	-	0.1
Eskdalemuir ...	69	57	56	Tr	3	0.0
Point of Ayre...	68	58	*	–	-	3.9
Tiree ...	69	54	46	–	-	4.4
Stornoway ...	68	54	*	–	-	4.6
Dalwhinnie ...	69	52	44	–	-	2.3
Aberdeen ...	62	57	52	–	0.3	0.0
Wick ...	59	56	*	Tr	Tr	*
Lerwick ...	64	58	*	Tr	-	3.4
Blacksod Point	70	60	*	–	-	*
Malin Head ...	66	57	*	–	-	5.5
Aldergrove ...	70	56	49	–	0.6	0.7
Birr Castle ...	73	59	49	–	0.2	4.8
Valentia Obsy. †	72	64	61	Tr	-	2.5
Roches Point	66	62	*	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. (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	epobc	bcb	bfofefe	74	58	49	Tr	Tr	4.4	•	•	4
CROYDON ...	217	cdcv	cbepo	bufgmo	77	54	52	Tr	-	5.1	•	•	6
GREENWICH (Royal Observatory) ...	149	c	c	cbwf	77	56	44	–	Tr	4.6	64	81	5
CITY (Sunhill Row) ...	—	•	•	•	•	•	•	•	•	•	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	74	58	53		–	4.0	68	87	•
REGENTS PK. (Botanic Gardens)‡ ...	168	•	•	•									•
CAMDEN SQUARE ...	110	bc	bc	•	76	59	53	-	-	*	•	91	•
KENSINGTON ...	80	bc	bc	•	77	58	50	-	-	4.1	At 18h	95	•
HAMPSTEAD OBSERVATORY ...	450									4.5	77		•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 28th

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
6.3	whole period		

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.1	5-7h 28th	6.1	7-19h 27th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. August 27th Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. August 28th 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 ...						1019.4	–	0	z₀	64		61		–
BRUSSELS ...														
BERLIN ...	1016.7	N'E	1	b	77	1018.4	–	0	z₀	70	82	61	–	–
ZÜRICH ...	1018.8	NNE	1	bc	68	1019.6	ESE	1	m	59	79	57	–	–
ROME ...	1012.7	WNW	4	b	75	1014.2	NE'N	3	b	68	*	*	–	–

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	Precipitous.
4	Rough.	9	Confused.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 29th August, 1939.
No. 28404

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1018·6	-4	-	0	c	73	65	8	7	3	-	4-6	9	4000
	Croydon	1019·5	-2	SWW	1	c	74	65	8	2	3	-	2-3	9	4000
	S. Farnborough	1019·1	-6	WNW	1	c	75	55	8	2	3	-	4-6	7-8	4000
	Boscombe Down	1019·3	-6	-	0	c	71	75	7	2	3	-	4-6	7-8	2500
	Calshot (Soton.)	1019·6	-4	-	0	z₀	71	75	6	2	3	-	1	2-3	2500
	Lympne ...	1019·5	-2	S'E	2	bc	73	65	8	2	4	-	2-3	2-3	4000
	Manston ...	1019·4	-2	E	2	bc	73	75	6	2	4	-	2-3	2-3	1500
2	Shoeburyness ...	1019·1	-6	SE'S	3	bc	74	65	8	2	6	-	2-3	2-3	2500
	Felixstowe ...	1019·3	-2	S	3	bc	72	75	8	8	6	-	2-3	2-3	2500
	Gorleston ...	1019·2	+2	SE'E	3	c	67	85	6	8	6	-	4-6	9	2500
	Mildenhall ...	1018·9	*	1+	0	c	73	65	8	2	6	7	4-6	9	4000
	Cranwell ...	1018·9	-2	-	0	c	74	65	7	8	-	-	9+	9+	4000
3	Birmingham ...	1019·5	+2	SSW	2	c	68	75	8	7	7	-	2-3	9	2500
	Upper Heyford	1019·5	-8	-	0	c	71	65	7	8	9	9	2-3	9+	2500
4	Ross-on-Wye ...	1019·0	0	W	2	c	70	75	7	8	-	-	9+	9+	2500
5	Hartland Point	1018·4	-0	N	1	c	66	92	8	8	6	-	4-6	9+	2500
	Bristol	1019·1	-1	-	0	c	73	75	8	8	3	-	4-6	7-8	2500
	Portland Bill ...														
	Plymouth ...	1018·9	-2	SSE	3	bc	71	75	8	8	3	3	2-3	2-3	2500
	The Lizard ...	1018·6	0	SSE	2	c	64	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	1017·7	+6	S	3	m/f	66	97	4	5	-	-	10	10	1500
	Guernsey ...	1018·7	0 •	ESE	2	bc	73	65	8	-	3	-	0	2-3	,
6	Pembroke ...	*	+2	SSE	3	c	66	92	7	8	7	2	2-3	7-8	1500
7	Holyhead ...	1017·9	+2	S	4	c	66	83	8	7	-	-	9+	9+	4000
	Chester (Sealand)	1018·6	0	S'E	2	z	70	75	6	8	7	-	2-3	7-8	4000
8	Manchester ...	1018·9	0	SWS	1	ir₀	71	65	7	5	7	-	4-6	9+	5700
10	Spurn Head ...	1019·3	+2	ESE	1	c	69	75	6	5	1	2	4-6	7-8	1500
	Catterick ...	1018·6	-4	-	0	pr	70	75	8	8	-	-	7-8	7-8	4000
	Tynemouth ...	1019·1	+2	SE	2	c	61	92	5	8	-	-	7-8	7-8	1500
11	St. Abbs Head...	1019·1	+2	-	0	o	60	97	5	5	-	-	10	10	800
	Leuchars ...	1019·3	+2	E	2	z₀	62	85	6	5	-	-	10	10	800
12	Renfrew (AbbotsI.)	1018·5	0	ENE	2	z₀	71	75	6	5	-	-	7-8	7-8	4000
	Eskdalemuir ...	1017·9	0	S	3	bc₀	68	75	8	8	-	-	4-6	4-6	2500
	Point of Ayre ...	1018·4	+2	SE	2	c/d	65	92	6	5	-	-	9+	9+	1500
13A	Tiree	1017·4	+4	SE'S	3	bc	68	75	7	1	-	5	1	2-3	4000
13B	Stornoway ...	1018·5	+4	SE	2	b	64	85	6	2	-	-	Tr	Tr	4000
15	Dalwhinnie ...	1018·3	+4	S	3	bc	69	65	6	4	6	•	4-6	4-6	2500
	Aberdeen ...	1019·7	+6	ENE	2	o	63	92	6	5	-	r	10	10	450
	Wick	1020·0	+8	ESE	2	f	58	97	3	-	-	-	10	10	<150
16	Lerwick... ...	1021·0	-6	ENE	1	bc	62	85	7	5	3	1	4-6	4-6	800
17	Blacksod Point...	1015·2	+2	SSE	2	c	69	85	9	2	-	-	7-8	7-8	1500
18	Malin Head ...	1016·9	+2	E	3	c	60	92	8	9	4	-	4-6	7-8	4000
	Aldergrove ...	1017·2	+2	SE'E	2	c	68	85	8	5	-	-	9+	9+	1500
19	Birr Castle ...	1015·6	0	S'E	3	c	74	65	7	4	3	8	7-8	9	1500
20	Valentia Obsy.†	1014·8	+2	S'E	4	c	71	75	8	5	-	-	9+	9+	2500
	Roches Point ...	1016·7	+2	SE'S	3	f	65	97	2	5	-	-	10	10	<150

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

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)	1016·0	-6	—	0	bc	74	55	8	8	3	-	4-6	4-6	4000	0	*
Croydon	1018·3	-4	-	0	c	74	65	7	3	4	-	7-8	9	4000	0	*
S. Farnborough	1018·0	-8	-	0	c	74	65	8	1	3	-	Tr	9	4000	0	*
Boscombe Down	1018·3	-12	-	0	c	70	75	8	8	6	-	4-6	7-8	4000	0	*
Calshot (Soton.)	1018·0	-12	SSW	2	b	72	85	7	2	3	1	Tr	1	2500	0	6
Lympne	1018·9	0	SE'E	2	bc	67	75	9	2	3	-	1	2-3	4000	0	§ 0
Manston	1018·7	-2	E'S	1	z₀	69	75	6	2	3	-	Tr	4-6	2500	0	•*
Shoeburyness	1018·7	-2	ESE	2	c	70	85	8	5	3	-	2-3	9+	7200	0	*
Felixstowe	1018·7	-4	SE	2	c/pr	68	85	8	4	6	-	9+	9+	4000	1	1
Gorleston	1018·8	-2	NEE	1	e	67	92	6	5	-	-	7-8	7-8	2500	0	1
Mildenhall	1018·6	+2	NWW	1	c	69	75	8	8	7	-	1	9+	2500	1	*
Cranwell	1018·9	+2	-	0	e	67	75	7	7	2	-	9	9+	4000	0	*
Birmingham	1018·8	-4	-	0	pr	66	86	8	5	7	-	4-6	9	4000	1	*
Upper Heyford	1018·5	-4	-	0	b	73	65	7	2	4	-	Tr	1	4000	0	*
Ross-on-Wye	1018·0	-8	SE	2	bc	70	75	7	8	-	-	4-6	4-6	4000	1	*
Hartland Point	1017·4	-2	NNW	1	c	66	92	8	8	7	-	4-6	7-8	1500	0	1*
Bristol	1018·1	-4	-	0	bc	70	75	8	8	3	1	2-3	4-6	2500	1	
Portland Bill	1018·7	-10	E	2	of	60	92	2	5	-	-	10	10	<150	1	2
Plymouth	1018·1	-4	S	2	b	69	85	9	2	8	2	Tr	2-3	2500	0	1
The Lizard	1017·4	-8	SE	2	of	62	97	2	5	-	-	10	10	800	1	2
Scilly (St. Mary's)	1017·1	-6	SSE	2	c/f	65	97	6	5	-	-	10	10	1500	1	2
Guernsey	1017·7	-6	NNE	2	bc	69	75	8	-	3	8	0	2-3	-	0	1
Pembroke	1014·1	-2	SSE	3	c	65	85	7	5	6	-	7-8	9	1500	1	2
Holyhead	1017·9	-2	S'E	1	c	64	92	6	5	-	-	9+	9+	4000	1	1
Chester (Sealand)	1018·0	-6	SSE	2	z	69	85	6	8	3	-	4-6	7-8	4000	1	*
Manchester	1018·3	-4	S'E	1	c	70	75	7	2	3	-	1	9	4000	1	*
Spurn Head	1018·8	0	ESE	1	c	63	85	6	5	5	-	4-6	7-8	1500	0	0
Catterick	1018·1	-2	NNE	1	pr	67	85	4	9	3	-	9	9+	1500	1	*
Tynemouth	1018·7	0	E	1	c	60	97	5	5	-	-	7-8	7-8	2500	1	1 •
St. Abbs Head	1019·2	0	-	0	c	59	97	6	4	6	1	4-6	7-8	1500	0	1
Leuchars	1019·2	-2	E	1	c	61	85	7	5	-	-	10	10	1500	1	*
Renfrew (AbbotsI.)	1018·5	+4	E	2	ct	68	75	6	8	-	-	9+	9+	1500	0	*
Eskdalemuir	1017·7	+2	W'S	2	beip	66	75	8	8	-	-	4-6	4-6	1500	1	*
Point of Ayre	1018·0	-2	-	0	c	68	86	7	5	4	-	Tr	7-8	1500	0	1
Tiree	1017·1	0	SSE	2	bc	65	85	8	1	3	5	Tr	2-3	4000	0	2
Stornoway	1018·7	0	SE	1	bc	63	85	6	5	7	-	2-3	4-6	4000	0	1
Dalwhinnie	1018·6	-4	S	2	bc	64	75	8	4	6	-	2-3	4-6	4000	0	*
Aberdeen	1019·4	-2	E	1	bc	62	85	6	5	-	-	4-6	4-6	800	0	1
Wick	1019·3	-6	ESE	2	bc	58	97	5	5	6	-	4-6	4-6	1500	1	1
Lerwick	1020·0	0	NE	2	ft	57	92	2	-	-	-	10	10	<150	0	*
Blacksod Point	1014·4	-4	-	0	c	71	75	9	5	5	-	4-6	7-8	1500	0	0
Malin Head	1016·4	-2	E	2	c	65	85	8	4	8	-	2-3	7-8	5700	0	1
Aldergrove	1010·7	-2	ESE	2	z₀	66	85	6	5	-	-	9	9	4000	1	*
Birr Castle	1016·2	0	S'E	2	c	71	75	8	5	-	-	9	9	2500	0	*
Valentia Obsy.†	1014·4	-6	SE	3	c/d	67	85	8	5	-	-	9+	9+	1500	1	1
Roches Point	1016·2	-2	S'E	2	oF+	64	97	1	5	-	-	10	10	<150	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 28th (37)	13h.—18h. 28th (38)	18h. 28th to 1h. 29th (39)	1h.—7h. 29th (40)
London (Kew)	ofebcc	cybcy	bcyc	cffe
Croydon	bm₀bcc	c	cz₀m₀bcw	bwfgm₀
S. Farnborough	bmcbcmy	bcyc	cbwm	bfe
Boscombe Down	bm cbcmy	bccbc	bcbfgwbcfbm	wbifbmbfe
Calshot (Soton.)	o fewcm	bz bcb	bm₀w	bm₀
Lympne	byb	bbc	bcc bcw	bcwm₀
Manston	bcc bcm₀	bcm₀z	bcm₀	bccm₀w
Shoeburyness	bcmbcz	bcc	c	cmfmw
Felixstowe	bcm bc₀	ccpr₀	cir₀c	ccm₀
Gorleston	bc	c	cbc	bcz₀f
Mildenhall	bcm₀bc	occir	cbcm₀c	cfgir₀cm
Cranwell	bcmcz	cir₀mc	cid₀	bfg,cmof
Birmingham	•c	cpr₀	cb	bbcf
Upper Heyford	ofcmc	cprcbcb	bbcb	bcbcm₀w
Ross-on-Wye	r₀mr₀	ccbc	bcbwbc	cfof
Hartland Point	bcc	c	cbc	bcc
Bristol	cm₀c	cjpbc	bcbw	bofe,b
Portland Bill		off	bcb	bbc
Plymouth	cbc	bcb	bw	bwc
The Lizard	cifir	cfc	cfc	cpr₀c
Scilly (St. Mary's)	d₀FFif	oifcfc	coffc	cw
Guernsey	cbc	bc	bcb	bbcb
Pembroke	ocz	c	c	cbcF
Holyhead	rRd₀dc	com₀c	m₀c	cq
Chester (Sealand)	mcircz	bccbcz	bcmfgbc	bfbcfcm₀m
Manchester	cf zir₀	c	cmbmom	cmfw
Spurn Head	c	cbcc	bcc	co
Catterick	cbcpr₀	cmpr₀	pr₀r₀r₀f	ir₀d₀d₀f
Tynemouth	ocff	c	coff	off id
St. Abbs Head	Fom	omc	bffe	mffe
Leuchars	oidmcm	cm₀c	cm₀w	m₀wid₀m
Renfrew (AbbotsI.)	cwmmz	bcctz	cz₀m₀	cmzid₀
Eskdalemuir	cwbc₀	bcycbjp	bccm₀	coir₀r
Point of Ayre	cDd₀	c	c	cF
Tiree	bc	bc	bc	bbc w
Stornoway	bm₀	bbcm₀	bcbm₀	bm₀
Dalwhinnie	cbc₀	bc		c
Aberdeen	ofboz	ozb	b₀ofefcid	ofcid₀o
Wick	cmff	ffebc	bmff	ffe
Lerwick	ocbc	bcov	odffe	offd
Blacksod Point	cbc	abc	pbc	c
Malin Head	cbcc	cbcc	cbcc	bcc
Aldergrove	r₀r₀m₀s	cm₀	cbcm₀cm	cm₀fm₀
Birr Castle	c	c	c	c
Valentia Obsy.†	cid₀c	iDidc	cid₀c	c
Roches Point	offe	ffdFfe	feffe	offe

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.

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.*

§ Sea disturbance reported from Dungeness.

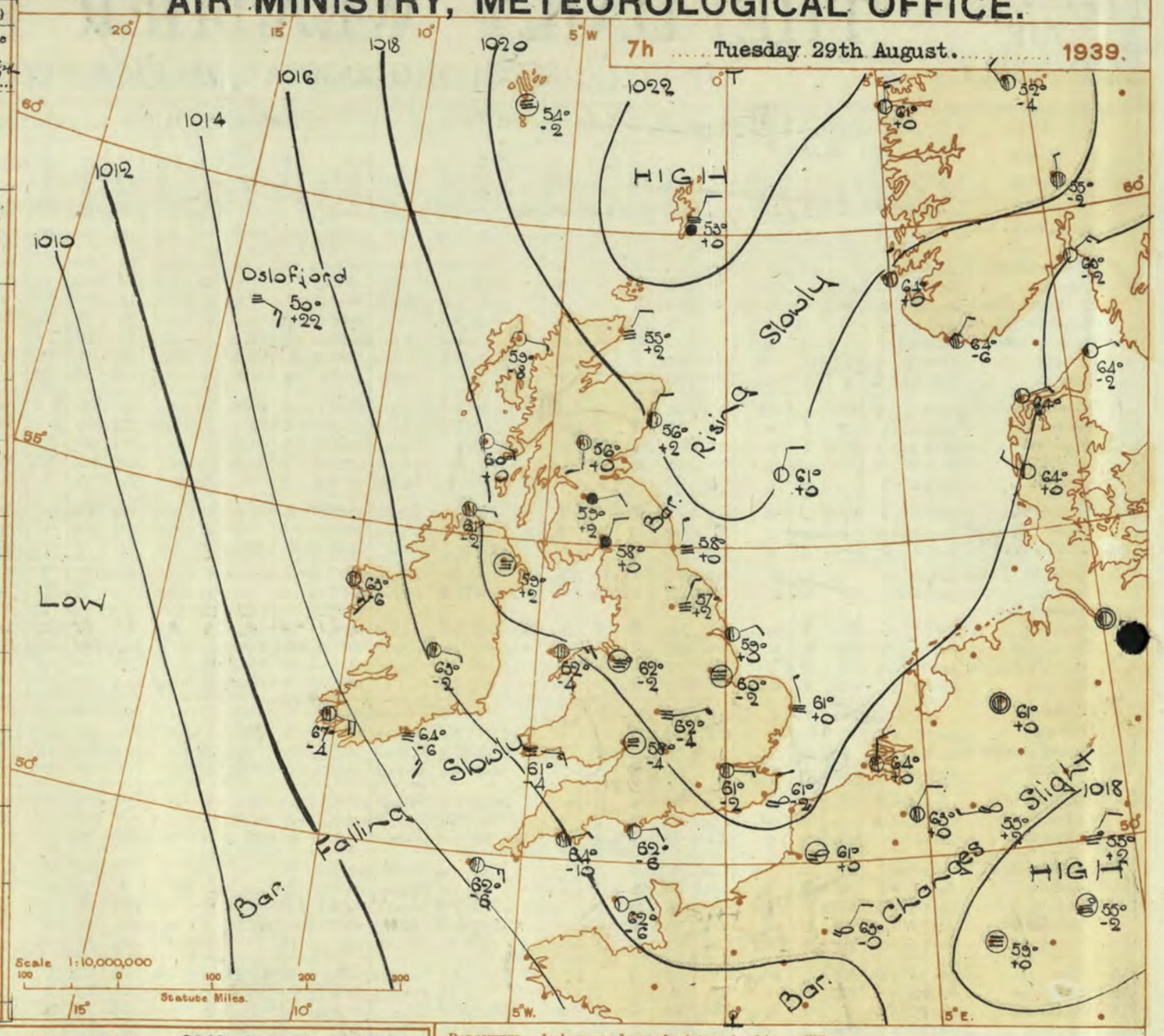
REPORTS from HEALTH RESORTS for 28th August 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 27th to 9h. 28th	Temperature. (°F) Max. 9h.—17h. 28th	Rainfall. (mm.) Night. 17h. 27th to 9h. 28th	Rainfall. (mm.) Day. 9h.—17h. 28th	Sunshine. (Hrs.) Sunrise to 17h. 28th	Sunshine. (Hrs.) Sunrise to Sunset. 27th
1	Tunbridge W.	bcebc	bcebc	52	80	-	-	8·7	7·2
	Bournemouth	bcbc	b	58	72	-	-	6·1	5·6
	Ventnor ...	ofc	cb	57	67	-	-	4·3	4·9
	Southsea ...	oc	b	60	73	-	-	8·3	0·7
	Bognor Regis	b	b	59	69	-	-	8·3	6·3
	Littlehampton	efbc	bc	58	71	-	-	8·2	6·7
	Worthing ...	b	b	56	70	-	-	8·9	6·4
	Brighton ...	nbc	bc	56	65	-	-	4·4	6·3
	Eastbourne†...	bbc	bcb	55	75	Trace	-	10·8	9·2
	Hastings† ...	b	bbcb	57	73	-	-	11·1	9·9
	Folkestone ...	bcb	bc	56	74	-	-	11·4	7·5
	Dover ...	bc	bc	57	72	-	-	11·0	7·2
	Deal	b	bbc	57	74	-	-	10·7	6·1
	Ramsgate ...	bc	bc	60	72	-	-	10·0	3·1
	Margate ...	bc	bc	60	72	-	-	9·4	2·7
2	Southend ...	b	bbcc	60	81	Trace	-	8·8	6·3
	Clacton-on-Sea	bmbc	bccpc	59	73	-	0·5	8·6	6·2
	Dovercourt ...	bc	bcdbc	60	74	-	Trace	7·2	8·9
	Lowestoft ...	bbcc	cpc	60	74	-	0·2	6·0	10·0
	Skegness ...	b	co	58	70	-	-	4·4	3·6
	Mablethorpe...								
	Cleethorpes ...	bc	bc	59	72	-	-	3·0	5·3
3	Leamington S.	cor	oc	55	73	-	0·2	0·6	8·3
4	Cheltenham†	Zobc	c	56	74	-	Trace	1·4	7·8
5	Bath	cbc	cbc	59	72	-	-	0·4	1·6
	Weymouth ...	cb	bmf	58	69	-	-	6·3	2·5
	Jersey ...	bc	bc	64	79	-	-	8·9	8·3
	Torquay ...	bcc	com	63	69	-	-	0·8	8·0
	Falmouth ...	ogcrr	o	63	67	0·5	1	0·0	6·3
	Penzance ...	cdd	mf	63	66	0·3	2	0·0	4·2
	St. Ives ...	pr	pr	56	68	0·5	2	0·8	6·9
	Bude... ...	bcc	cbc	58	72	1	-	2·9	7·4
	Ilfracombe ...	cpcbc	bccbc	62	72	0·3	-	2·4	10·1
6	Aberystwyth	prcpr	prbc	60	68	10	3	3·3	5·7
7	Llandudno ...	cfc	cb	59	73	0·1	0·1	1·0	0·6
	Colwyn Bay...	crcpc	bccbc	56	73	0·5	1	1·3	1·0
	Rhyl	cir	cbcc	56	74	-	Trace	2·1	1·4
8	Wallasey ...	mcp	cbc	59	74	-	Trace	1·9	2·3
	Southport ...	bpcbc	cbcc	55	74	Trace	-	0·9	1·4
	Blackpool ...	c	cbc	55	74	Trace	-	2·1	1·6
	Morecambe ...	bcp	bc	59	72	-	Trace	2·6	4·3
9	Ilkley... ...	bc	bc	56	73	-	-	2·3	0·9
	Harrogate ...	cbc	bcb	56	74	-	-	4·6	7·7
10	Berwick-on-T.	omm	ocbcc	55	63	0·1	-	2·4	1·2
11	Dunbar ...	cmpo	cm	55	62	0·3	-	0·9	2·6
12	Troon... ...	c	c	57	76	-	-	5·3	4·7
	Douglas ...	cid	c	59	68	1	Trace	1·6	0·4

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.-9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h ..... Tuesday 29th August ..... 1939.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 29th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Wind southeast, light or moderate; bright periods but thunderstorms probable; warm and close.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind easterly, light; cloudy with fog or drizzle; thunder probable tomorrow; close.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Wind southeast, moderate or fresh; fair and warm.
15 N. E. Scotland 16 Orkney and Shetland	Wind variable; much coastal fog and cloud with local drizzle; close.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind southeast, moderate or fresh; fair apart from coastal fog; warm and close.

GENERAL INFERENCE.

A large depression remains almost stationary off the West of Ireland and a secondary over the Bay of Biscay is moving northwards.

FURTHER OUTLOOK.

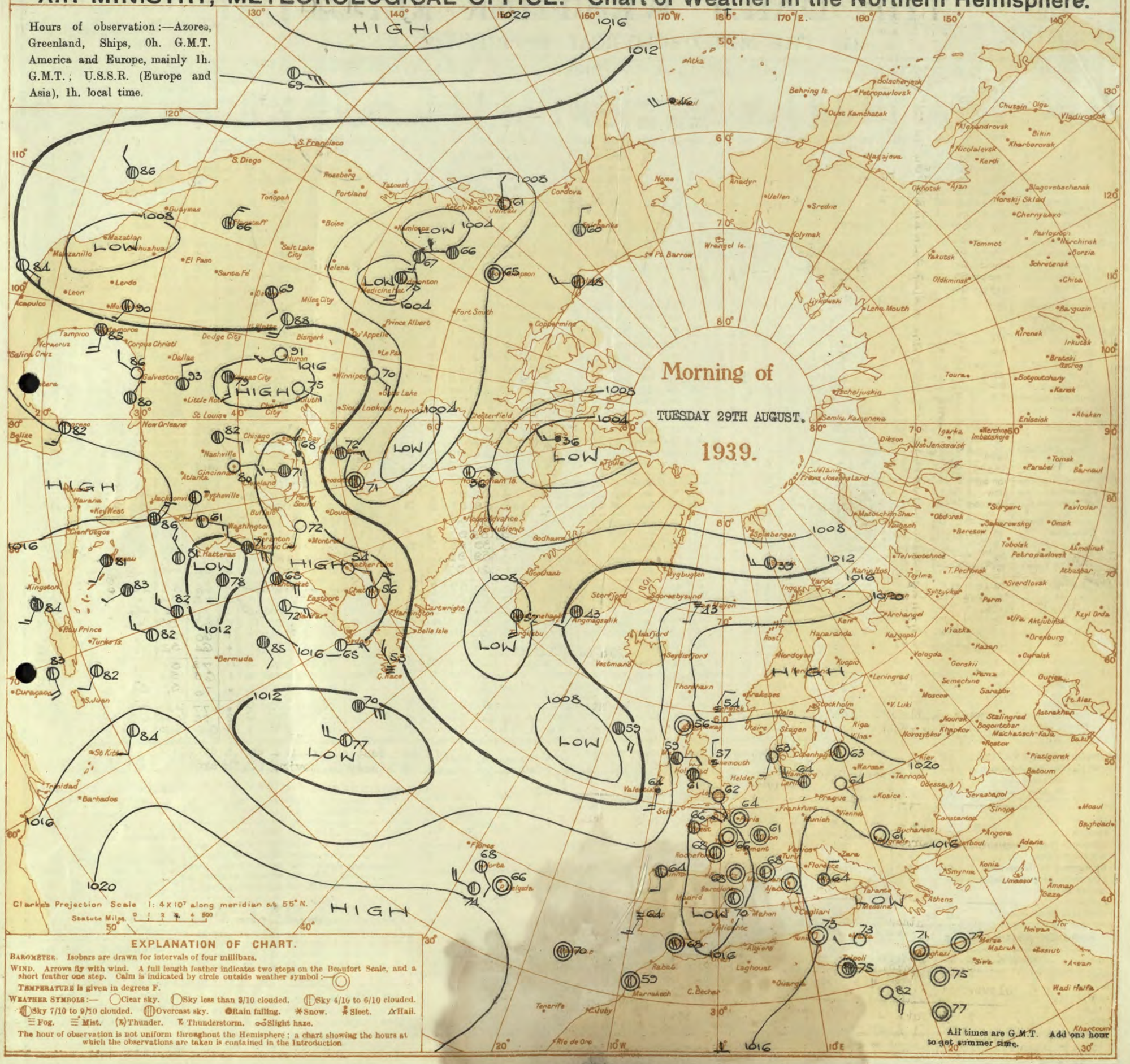
Unsettled and thundery.

Forecasts issued at 0930 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 29th August, 1939

No. 28404

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

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	1018.9	-2	SE'S	1	b	62	92	7	-	4	-	0	1	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1018.9	-2	N'E	1	bf	56	97	2	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1018.3	-4	W	1	½o	58	97	5	—	1	-	0	Tr	-
	Lympne ...	346	1019.1	-6	NE	2	bc	60	92	7	-	4	-	0	2-3	-
	Manston ...	154	1018.9	-6	NE'E	1	fg	61	97	6	-	7	-	0	4-6	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1018.7	-2	-	0	bc	62	85	7	-	4	-	0	2-3	-
	Mildenhall ...	19	1019.0	0	SE'S	1	c	62	97	7	-	3	-	0	9	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1017.6	-4	E	2	bc	62	92	8	5	4	-	2-3	2-3	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1018.8	+4	E	1	b	59	92	8	-	-	-	0	0	-
	Plymouth ...	82	1018.1	-4	E	1	bc	59	97	7	-	3	1	0	2-3	-
	The Lizard ...	240	1017.5	-6	ENE	3	c	62	97	7	8	2	-	7-8	9+	2500
	Scilly (St. Mary's)	163	1017.0	-4	SE'E	3	c	63	97	7	5	-	-	9+	9+	2500
	Guernsey ...	175	1017.4	-2	E	2	b	63	75	8	-	-	-	0	0	-
6	Pembroke ...	142	1014.5	0	E'N	2	c	63	92	7	8	-	-	9	9	1500
7	Holyhead ...	26	1018.4	+2	ESE	2	c	61	97	8	5	-	-	9	9	4000
	Chester (Sealand)	16	1018.9	-2	-	0	bcf	61	97	3	-	3	-	0	4-6	-
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1018.8	0	N'E	1	c	61	92	7	3	1	-	4-6	7-8	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1019.6	-4	N	1	of	57	97	2	5	-	-	10	10	1500
11	St. Abbs Head	280	1019.9	0	-	0	F	56	97	1	-	-	-	10	10	4150
	Leuchars ...	36	1020.2	0	-	0	½o	57	97	5	5	-	1	10	10	1500
12	Renfrew (Abbots I.)	19	1019.9	0	E	3	½o	60	85	6	5	-	-	10	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1018.9	+2	-	0	c	61	97	7	-	3	-	0	9+	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1019.8	+2	-	0	b	56	97	6	5	-	-	Tr	Tr	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1020.8	+4	ESE	1	F+	55	97	1	-	-	-	10	10	4150
16	Lerwick ...	156	1022.4	+4	NE	2	F	54	97	1	-	-	-	10	10	4150
17	Blacksod Point	18	1016.3	0	-	0	c	62	97	8	5	-	-	10	10	800
18	Malin Head ...	84	1017.6	+2	E	2	c	59	97	7	8	8	-	4-6	9	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1014.8	-2	5	3	d.d.	64	92	7	5	-	-	7-8	7-8	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1018.0	-4	—	0	cf-	62	92	3	5	-	-	7-8	7-8	2500	0	*
Croydon ...	1018.5	-2	E'S	1	c	61	85	6	-	8	-	0	7-8	-	0	*
S. Farnborough	1018.0	-2	-	0	F-	56	97	1	-	-	-	10	10	4150	0	*
Boscombe Down	1017.6	-2	ENE	1	m/f	55	97	4	-	4	1	0	1	-	1	*
Calshot (Sthmtn.)	1017.6	-2	NNE	1	½o	61	97	5	-	-	-	0	0	-	0	0
Lympne ...	1018.3	-2	NNE	2	½o	61	97	6	-	3	-	0	4-6	-	0	*
Manston ...	1018.3	0	ENE	1	½o	63	97	6	-	3	-	0	9	-	1	*
Shoeburyness ...	1018.7	0	N'W	1	m	63	97	4	-	3	-	0	9	-	0	*
Felixstowe ...	1018.5	0	N'E	2	½o	63	97	5	-	3	-	0	9	-	1	1
Gorleston ...	1018.4	0	NNE	1	bcf-	61	97	3	5	-	-	4-6	4-6	800	0	1
Mildenhall ...	1018.4	-2	E'N	1	½o	63	97	6	-	3	-	0	4-6	-	1	*
Cranwell ...	1018.7	-2	-	0	f+	60	97	2	-	-	-	10	10	4150	0	*
Birmingham ...	1018.4	-4	ENE	1	bcf	62	92	3	-	3	-	0	4-6	-	0	*
Upper Heyford	1018.7	-6	-	0	½o	61	92	5	-	3	-	0	4-6	-	1	*
Ross-on-Wye	1017.9	-4	-	0	of-	58	97	3	5	-	-	10	10	220	1	*
Hartland Point	1015.9	-6	E	3	c	63	92	8	5	6	-	7-8	7-8	2500	0	2
Bristol ...	1018.1	-4	-	0	bf-	56	97	3	-	-	-	0	0	-	0	*
Portland Bill ...	1016.8	-6	E	2	bc	62	85	7	4	-	-	2-3	2-3	4000	1	2
Plymouth ...	1016.1	-10	ENE	1	c	64	85	3	5	3	-	7-8	7-8	5700	0	1
The Lizard ...	1015.0	-10	NE'E	4	c	62	97	7	8	7	-	4-6	7-8	2500	1	3
Scilly (St. Mary's)	1014.4	-6	E'S	3	c	62	97	8	5	4	3	2-3	7-8	2500	1	2
Guernsey ...	1015.8	-6	ENE	2	D	62	85	8	-	4	-	0	1	-	0	1
Pembroke ...	1014.2	-4	E'S	3	bcf-	61	97	1	5	6	-	2-3	4-6	1500	1	1
Holyhead ...	1017.3	-4	E'N	3	c	62	92	9	5	-	-	9+	9+	4000	1	1
Chester (Sealand)	1018.2	-2	-	0	~	62	97	4	5	3	-	7-8	9	2500	1	*
Manchester ...	1018.5	-2	ENE	1	cf	62	97	3	-	3	-	0	9	-	1	*
Spurn Head ...	1018.5	0	ENE	2	c	59	92	5	5	-	-	9+	9+	4500	0	1
Catterick ...	1019.4	+2	NE'N	1	f	57	97	2	-	-	-	10	10	4150	1	*
Tynemouth ...	1019.6	0	N	1	of	58	97	2	5	-	-	10	10	1500	1	1
St. Abbs Head	1019.7	+2	NW	1	F	57	97	1	-	-	-	10	10	4150	1	*
Leuchars ...	1020.0	0	-	0	id.	58	97	5	5	-	-	10	10	4500	1	*
Renfrew (Abbots I.)	1019.8	+2	ENE	2	id.	59	92	5	5	-	-	10	10	1500	0	*
Eskdalemuir ...	1019.2	0	NE'N	2	~	58	92	6	-	2	-	10	10	220	1	*
Point of Ayre ...	1018.5	0	E'S	1	f-	61	97	3	-	-	-	10	10	4150	0	0
Tiree	1018.0	0	ESE	1	bc	60	97	7	-	3	-	0	4-6	-	0	1
Stornoway ...	1019.5	-8	ESE	1	b	59	97	6	-	-	-	0	-	-	1	0
Dalwhinnie ...	*	0	S	2	c	56	85	6	5	-	-	10	10	1500	0	*
Aberdeen ...	1020.7	+2	NNE	1	m	56	97	4	5	-	-	10	10	450	1	1
Wick ...	1020.8	+2	NE	2	F	55	97	1	-	-	-	10	10	4150	1	1
Lerwick ...	1022.4	0	NE	2	df	53	97	1	-	-	-	10	10	4150	1	*
Blacksod Point	1015.1	-6	SE'S	3	c	63	97	8	5	-	-	9+	9+	800	0	1
Malin Head ...	1017.2	-2	E	1	c	61	92	7	5	-	4	4-6	7-8	4000	0	1
Aldergrove ...	1018.2	+2	-	0	o/f	59	97	5	5	-	-	10	10	800	1	*
Birr Castle ...	1016.2	-2	ESE	1	c	63	97	8	5	-	-	7-8	7-8	2500	0	*
Valentia Obsy. †	1013.5	-4	ESE	4	c	67	85	8	8	5	6	4-6	7-8	1500	0	2
Roches Point	1015.2	-6	SE	3	of	64	97	2	5	-	-	10	10	4150	1	3

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine. 18th Hrs. (36)
London (Kew)	76	58	50	-	Tr	5.1
Croydon ...	79	55	50	-	-	8.5
S. Farnborough	79	62	48	-	Tr	7.2
Boscombe Down	72	54	50	Tr	Tr	1.6
Calshot (Sthmtn.)	74	57	55	-	-	6.4
Lympne ...	73	55	52	-	-	12.2
Manston ...	74	56	49	-	-	9.2
Shoeburyness ...	75	56	48	-	-	9.2
Felixstowe ...	75	60	57	0.3	0.3	7.7
Gorleston ...	72	60	58	-	-	5.0
Mildenhall ...	78	59	55	Tr	Tr	5.7
Cranwell ...	74	53	50	Tr	-	3.5
Birmingham ...	76	60	49	0.3	-	1.0
Upper Heyford	76	57	57	0.1	-	*
Ross-on-Wye	74	55	52	1	-	1.6
Hartland Point	71	55	57	-	-	2.7
Bristol ...	73	53	48	-	-	2.4
Portland Bill ...	61	58	*	-	-	*
Plymouth ...	71	58	53	-	-	11.2
The Lizard ...	65	60	*	3	0.2	0.0
Scilly (St. Mary's)	68	61	*	0.3	Tr	0.6
Guernsey ...	75	60	52	-	-	9.5
Pembroke ...	68	60	*	-	-	2.1
Holyhead ...	66	59	56	3	-	0.1
Chester (Sealand)	71	60	57	Tr	Tr	3.3
Manchester ...	73	51	51	Tr	-	0.5
Spurn Head ...	70	59	*	-	-	3.3
Catterick ...	75	57	*	Tr	0.4	4.1
Tynemouth ...	68	56	56	-	0.2	2.1
St. Abbs Head	61	55	*	Tr	0.1	*
Leuchars ...	63	56	53	Tr	Tr	0.0
Renfrew (Abbots I.)	72	59	57	-	Tr	*
Eskdalemuir ...	73	57	58	-	0.1	5.7
Point of Ayre ...	68	60	*	-	-	1.4
Tiree	68	55	48	-	-	12.7
Stornoway ...	60	54	*	-	-	10.6
Dalwhinnie ...	70	52	46	-	-	6.8
Aberdeen ...	63	55	46	-	0.1	3.4
Wick ...	60	53	*	-	Tr	*
Lerwick ...	64	52	*	-	Tr	4.2
Blacksod Point	73	51	*	-	-	*
Malin Head ...	65	58	*	-	-	4.6
Aldergrove ...	70	57	54	3	-	0.5
Birr Castle ...	77	62	53	-	-	5.1
Valentia Obsy. †	72	(64)	63	0.5	Tr	0.5
Roches Point	66	63	*	1	0.3	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew ...	18	ofabcc	cybcy	cffc	76	58	50	-	Tr	5.1	•	•	5
Croydon ...	217	bmobcc	czmobcb	bwfgmo	72	55	50	-	-	8.5	•	•	6
Greenwich (Royal Observatory) ...	149	b	c	cbwcm	77	57	46	-	-	4.9	62	73	5
City (Gunhill Row) ...	—	•	•	•	•	•	•	•	•	*	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	78	62	57	—		5.1	54	75	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	76	60	45	-	-	*	65	71	•
Camden Square ...	110	bc	bc	•	77	59	52	-	-	*	•	83	•
Kensington ...	80	bc	bc	•	78	59	51	-	-	5.3	At 18h 67	71	•
Hampstead Observatory ...	450	b	bc	b	74	59	58	-	-	6.0	•	79	•

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.
0.3	6-7 29th	<0.3	14-16h 28th	0.4	7h 29th	<0.1	13-16h 28th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 28th August. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 29th August. 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 ...	1016.9	-	0	c	77	1016.6	NE	2	bc/f	63*	81	61	-	—
Brussels ...						1017.5	NE	2	c	63		61		-
Berlin ...	1017.7	-	0	t	75	1017.6	-	0	½o	63	84	61	Tr	13
Zurich ...						1017.8	ESE	1	cf+	59	*	55		-
Rome ...						1014.4	NE	2	b	66	*	*		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30 — Code for State of Sea.

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

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

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

† The observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. * Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 30th August, 1939.
No. 28405

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1016·5	-14	E'S	3	bc	75	45	8	2	3	9	4-6	4-6	4000
	Croydon ...	1016·5	-14	ENE	2	bc	76	65	8	1	4	9	2-3	4-6	4000
	S. Farnborough	1015·8	-14	ENE	2	c	78	45	8	2	3	-	7-8	7-8	4000
	Boscombe Down	1015·6	-14	E'S	3	bc	77	45	8	2	·	·	4-6	4-6	4000
	Calshot (Soton.)	1016·4	-6	ESE	3	b	72	75	7	3	-	-	1	1	2500
	Lympne ...	1016·8	-10	ES	3	bc	72	65	8	1	3	-	Tr	2-3	4000
	Manston ...	1017·2	-8	NE'N	3	b	70	65	7	-	3	-	0	1	-
2	Shoeburyness ...	1017·5	-4	E	3	b	71	75	8	2	4	-	Tr	1	4000
	Felixstowe ...	1017·9	-4	SE	3	b	72	65	8	2	·	-	Tr	Tr	4000
	Gorleston ...	1017·7	-4	NE'N	2	c	65	85	6	5	-	-	7-8	7-8	2500
	Mildenhall ...	1016·8	-10	ENE	3	c	76	55	7	2	3	-	2-3	7-8	4000
	Cranwell ...	1017·2	-10	SSW	1	tlro	68	85	6	9	-	-	9+	9+	1500
3	Birmingham ...	1016·9	-10	E	2	c	73	65	7	8	-	-	4-6	7-8	4000
	Upper Heyford	1016·8	-10	E	1	bc	77	55	8	2	4	-	1	2-3	4000
4	Ross-on-Wye ...	1015·8	-12	E	3	c	73	65	7	2	·	-	4-6	7-8	4000
5	Hartland Point	1014·5	-10	ENE	2	bc	70	75	8	2	4	2	2-3	4-6	2500
	Bristol ...	1015·9	-12	ESE	2	zo	74	65	7	2	-	-	4-6	4-6	2500
	Portland Bill ...	1015·6	-8	E	2	bc	67	85	8	1	·	·	4-6	4-6	2500
	Plymouth ...	1015·0	-10	SE	3	bc	75	55	8	5	-	2	4-6	4-6	5700
	The Lizard ...	1015·6	0	ENE	4	c	67	85	8	8	6	-	4-6	7-8	2500
	Scilly (St. Mary's)	1013·8	-2	SSE	4	bc	70	85	8	4	8	4	2-3	4-6	2500
	Guernsey ...	1014·4	-10	E'N	4	bc	72	65	8	-	7	1	0	4-6	-
6	Pembroke ...	1015·7	-2	SE	3	c	69	85	7	5	6	-	4-6	9+	1500
7	Holyhead ...	1016·5	-8	N	3	bc	66	85	8	5	3	1	2-3	4-6	4000
	Chester (Sealand)	1016·0	-10	-	0	zo	75	65	6	3	3	-	4-6	7-8	2500
8	Manchester ...	1017·1	-10	NE'E	4	m	71	75	4	3	3	-	2-3	9+	4000
10	Spurn Head ...	1018·1	-2	E'N	1	c	65	85	6	5	2	-	7-8	9+	800
	Catterick ...	1018·6	-10	NE'N	1	zo	63	85	5	5	-	-	10	10	450
	Tynemouth ...	1019·7	-2	N	2	o	61	92	6	5	·	-	10	10	1500
11	St. Abbs Head...	1019·9	0	-	0	o	50	97	5	5	-	·	10	10	1500
	Leuchars ...														
12	Renfrew (Abbotsl.)	1019·3	-6	ENE	2	zo	65	75	6	5	-	·	10	10	1500
	Eskdalemuir ...	1018·6	-4	NE'E	3	c	62	85	7	5	-	·	10	10	1500
	Point of Ayre ...	1018·1	-4	ESE	2	bc	65	85	6	2	4	-	Tr	4-6	4000
13A	Tiree ...	1018·0	0	SE	3	b	68	75	7	·	·	·	0	0	-
13B	Stornoway ...	1019·7	-2	ESE	1	b	65	85	7	·	·	·	0	0	-
15	Dalwhinnie ...	1019·7	-6	S	3	bc	64	75	7	4	6	-	2-3	2-3	2500
	Aberdeen ...	1020·4	-6	ENE	1	c	59	92	6	5	-	-	9+	9+	800
	Wick ...	1020·7	-6	ENE	2	c	56	97	6	5	2	-	7-8	10	1500
16	Lerwick...	1021·8	-8	NE	3	ido	55	97	6	5	-	-	10	10	450
17	Blacksod Point...	1015·2	-4	SE	2	c	72	75	9	-	6	-	0	9	·
18	Malin Head ...	1017·4	0	E	4	bc	61	85	7	2	-	2	2-3	4-6	4000
	Aldergrove ...	1017·8	-2	E'N	2	zo	67	85	6	8	·	·	9+	9+	1500
19	Birr Castle ...	1016·0	-2	ESE	1	c	69	85	8	5	1	·	7-8	9+	2500
20	Valentia Obsy.†	1013·2	-2	SE'E	5	c	74	65	9	2	4	9	2-3	7-8	4000
	Roches Point ...	1014·8	-4	ESE	3	c	68	85	8	8	·	·	7-8	7-8	2500

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

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)	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)	1014·2	-12	E	3	bc	74	55	7	-	4	6	0	2-3	-	0	*
Croydon	1014·7	-6	E'N	2	bc	71	65	8	4	8	4	Tr	2-3	4000	0	*
S. Farnborough	1013·4	-12	ENE	2	c	73	55	7	4	-	2	Tr	7-8	5700	0	*
Boscombe Down	1014·3	-6	SE'S	1	bc	72	65	8	-	-	3	0	4-6	-	0	*
Calshot (Soton.)	1013·3	-6	ESE	2	bc	70	85	8	-	-	1	0	2-3	-	0	0
Lympne	1015·0	-12	NE	3	b	66	65	8	-	3	-	0	1	-	0	§2
Manston	1015·1	-6	NE'E	2	zo	65	85	6	-	3	-	0	Tr	·	0	*
Shoeburyness	1015·3	-12	ENE	3	bc	66	85	8	-	5	-	0	4-6	-	0	*
Felixstowe	1015·8	-6	E	2	bc	66	85	8	-	3	-	0	2-3	-	0	2
Gorleston	1016·1	-10	N	3	c	65	85	6	5	-	-	9+	9+	2500	0	1
Mildenhall	1015·6	-2	-	0	tlr	65	97	6	9	6	-	9	9+	1500	1	*
Cranwell	1016·5	-4	E'N	2	zo	63	85	6	8	6	-	4-6	9+	2500	1	*
Birmingham	1016·3	0	NE	2	TLR	62	92	5	6	-	-	10	10	1500	1	*
Upper Heyford	1014·8	-6	ENE	1	bc	73	65	7	3	6	5	2-3	4-6	2500	0	*
Ross-on-Wye	1013·7	-10	NE	2	c	73	65	7	8	-	1	7-8	7-8	4000	0	*
Hartland Point	1012·3	-14	NE	3	bc	69	75	8	8	-	3	2-3	4-6	2500	0	2
Bristol	1013·5	-12	E	1	bc	74	65	8	7	-	8	2-3	4-6	4000	0	*
Portland Bill	1012·6	-16	E	2	bc	65	92	8	1	-	-	4-6	4-6	4000	1	2
Plymouth	1012.5	-18	E	3	bc	69	75	8	3	-	3	Tr	4-6	2500	0	1
The Lizard	1011·9	-18	NE'E	4	bc	65	85	7	8	7	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1011·3	-18	E'S	4	bc	67	85	8	4	4	4	2-3	4-6	4000	1	2
Guernsey	1011·6	-8	NNE	2	bc	67	75	7	-	1	8	0	4-6	-	0	1
Pembroke	1013·3	-10	E'N	1	bc	69	75	8	7	7	1	2-3	4-6	2500	1	0
Holyhead	1014·9	-10	N'E	2	c	65	85	6	7	8	5	7-8	7-8	4000	1	1
Chester (Sealand)	1015·5	-4	ENE	1	m	70	75	4	5	-	-	9	9	2500	0	*
Manchester	1016·2	-2	NW'N	3	m	65	85	4	8	3	-	4-6	9	4000	1	*
Spurn Head	1017·0	-6	NE'N	3	c	63	92	6	5	3	-	4-6	7-8	800	0	2
Catterick	1017·6	-6	NE'N	1	zo	62	85	5	5	-	-	9	9	2500	1	*
Tynemouth	1018·1	-4	N	2	c	60	97	6	5	-	-	9+	9+	1500	1	1
St. Abbs Head	1018·7	-4	-	0	o	58	92	6	5	-	·	10	10	1500	0	0
Leuchars																*
Renfrew (Abbotsl.)	1018·5	-2	ENE	3	zo	64	75	6	5	-	-	9+	9+	4000	0	*
Eskdalemuir	1017·7	-2	NE'E	3	c	61	85	6	5	-	-	9+	9+	1500	1	*
Point of Ayre	1016·5	-10	ENE	3	b	65	85	6	·	4	-	0	Tr	-	0	2
Tiree	1017·3	0	SE'E	2	b	64	85	7	-	-		0	0	-	0	1
Stornoway	1019·3	0	NE	3	b	62	92	7	-	-	-	0	0	-	0	2
Dalwhinnie	1018·0	-10	S	3	bc	61	75	8	4	6	-	2-3	4-6	4000	0	*
Aberdeen	1019·6	-2	NE	3	o	58	97	6	5	-	-	10	10	800	0	1
Wick	1020·2	-2	NNE	3	c	56	92	6	5	2	-	7-8	10	1500	1	1
Lerwick	1020·6	-6	NNE	4	o/d	59	97	7	5	-	-	10	10	450	1	*
Blacksod Point	1013·8	-8	SE	3	c	68	75	9	-	7	-	0	9+	-	0	2
Malin Head	1016·4	-4	E	5	bc	63	85	6	2	-	-	2-3	2-3	4000	0	2
Aldergrove	1016·3	-6	E'N	3	zo	66	85	6	1	-	·	1	1	2500	1	*
Birr Castle	1014·2	-10	ESE	1	c	71	75	8	5	7	-	4-6	9	2500	0	*
Valentia Obsy.†	1011·4	-12	SE'E	4	c	72	65	9	7	5	1	2-3	7-8	4000	0	2
Roches Point	1012·7	-12	E'N	3	bc	67	85	8	5	-	1	2-3	2-3	2500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 29th (37)	13h.—18h. 29th (38)	18h. 29th to 1h. 30th (39)	1h.—7h. 30th (40)
London (Kew)	febbcy	bcbcy	bcybbc	bccmo
Croydon	bcmobc	bcybc	bcbmo	comow
S. Farnborough	Fbbc	bcy	cb	b;cmo
Boscombe Down	bmbmobc	bcybc	bcbbmo	bmfmcm
Calshot (Soton.)	bmob	bbc	bcbmo	cbbcmo
Lympne	bc	bcbyb	bmobcw	bwcmo
Manston	cmobc	bybmo	bbbcw	bcwcmf
Shoeburyness	cmbcb	bbc	bcc	ccmo
Felixstowe	cmopro	bbc	ccmo	cmo
Gorleston	bcfbzoc	cbccz	czc	ozo
Mildenhall	bcmobc	cctlR	cprcmo	cmo
Cranwell	ctlrqmo	cylrmo	cmo	cmoFm
Birmingham	fbc	bcoTLR	tlRrc	co
Upper Heyford	bcmozob	bbc	bccmomo	cmo ofm
Ross-on-Wye	fcmbzbc	cbcc	cqubc	com
Hartland Point	cbc	bc	bcc	cbcc
Bristol	bfebc zo	bcy	bcbbcmo	bccmow
Portland Bill	cfbc	cbcb	bcc	cbc
Plymouth	cbcy	bcy	cbc	cbc
The Lizard	bcd	cbc	bccl	cbcc
Scilly (St. Mary's)	cbc	bc	elpc	cw
Guernsey	bc	bccbc	ctlR	c
Pembroke	ifbcc	cbc	bcc	bcmow
Holyhead	cbc	bc	cmgbc	bcc
Chester (Sealand)	cwmzo	p	bcfcmw	cbccmw
Manchester	cfm	czzoz	bcmocmo	crmw
Spurn Head	o	oproc	cf	fc
Catterick	ofmmo	omocmo	cmoiromo	iromocmo
Tynemouth	offo	oc	co	oc
St. Abbs Head	omo	omo	mFf	ffomc
Leuchars			cmow	idomrrmc
Renfrew (Abbotsl.)	cmoidozo	czo	c	cmow
Eskdalemuir	oridoc	ccmo	cmo	cbcbbc
Point of Ayre	ffcbc	bcbzo	bbcc	bcc
Tiree	b	bbccb	bbcb	bw
Stornoway	b	b	bw	bw
Dalwhinnie	cbc	bc	•	c
Aberdeen	oifc	bbczo	omoc	czoc
Wick	Fcmo	cmo	cmo	cmodo
Lerwick	oFFd	oid	oidodd	oddido
Blacksod Point	bc	bc	bc	bc
Malin Head	bczozbc	bczozbc	zo	czozc
Aldergrove	cmo	bcbmo	bmocmobc	bcmofw
Birr Castle	croc	c	c	c
Valentia Obsy.†	cv	cv	cvc	c
Roches Point	offec	cbc	bcc	ccffe

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.

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.*

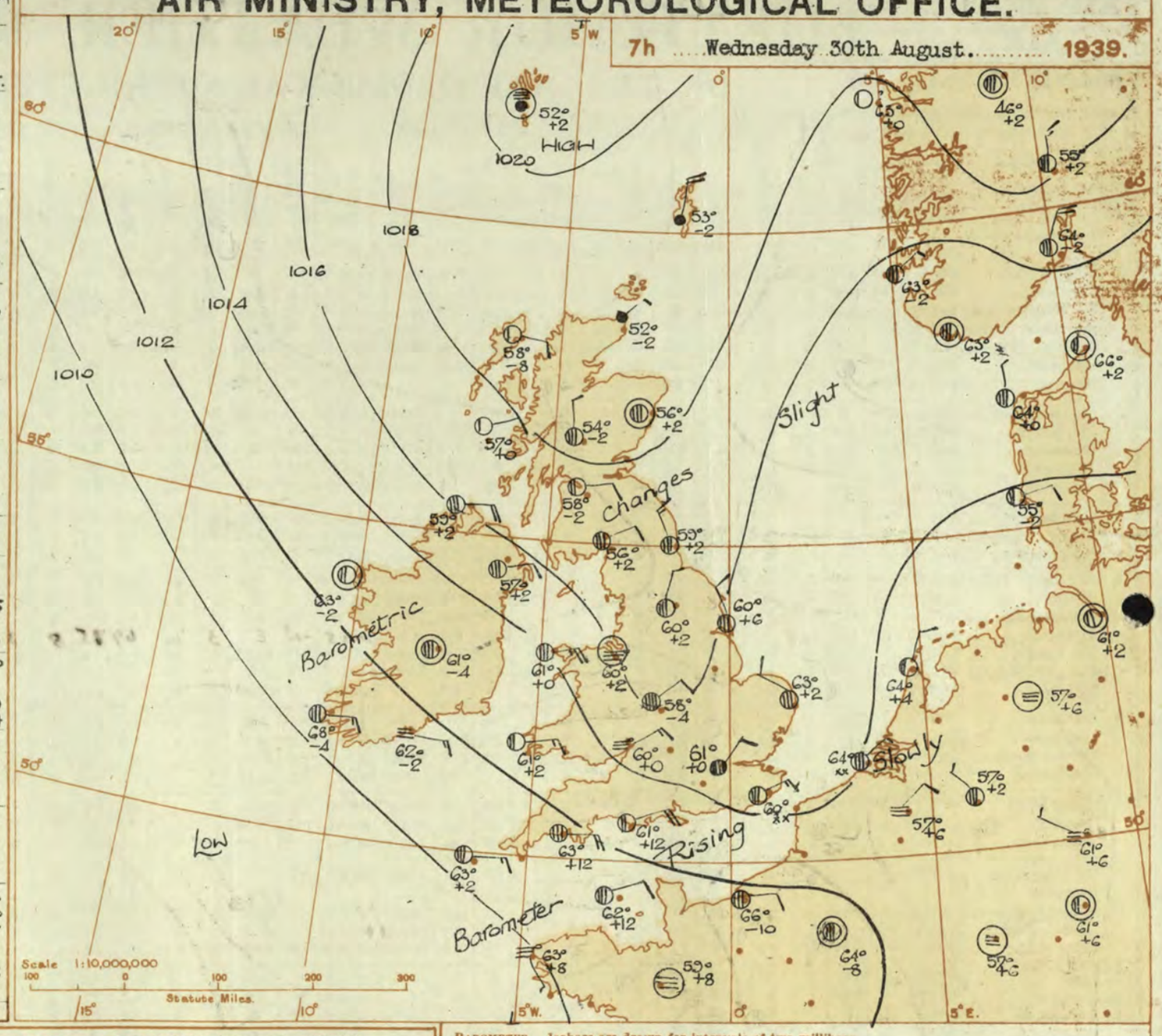
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 29th August 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F) Min. 28th 9h. to 29th 9h.	Temperature. (°F) Max. 28th 9h.—17h. 29th	Rainfall. (mm.) Night. 28th 17h. to 29th 9h.	Rainfall. (mm.) Day. 28th 9h.—17h. 29th	Sunshine. (Hrs.) Sunrise to 17h. 28th 29th	Sunshine. (Hrs.) Sunrise to Sunset. 28th 29th
1	Tunbridge W.	b	b	53	81	-	-	11·2	9·0
	Bournemouth	b	b	55	75	-	-	10·1	7·4
	Ventnor ...	bz	b	61	72	-	-	10·5	5·7
	Southsea ...	b	b	59	75	-	-	10·9	9·5
	Bognor Regis	b	b	58	73	-	-	11·2	9·2
	Littlehampton	b	b	57	74	-	-	10·7	9·7
	Worthing ...	b	b	58	73	-	-	11·3	9·6
	Brighton ...	b	b	57	77	-	-	11·2	4·5
	Eastbourne† ...	b	b	58	72	-	-	11·4	11·4
	Hastings† ...	b	b	59	76	-	-	11·0	11·5
	Folkestone ...	bc	bcb	59	73	-	-	8·8	12·4
	Dover ...	b	b	61	73	-	-	8·3	12·0
	Deal	cbcb	b	57	74	-	-	8·7	11·5
	Ramsgate ...	bc	bc	63	69	-	-	7·0	10·6
	Margate ...	bc	bc	62	69	-	-	7·9	9·9
2	Southend ...	b	b	60	77	-	-	9·2	9·1
	Clacton-on-Sea	cbc	bc	62	71	-	-	7·9	8·6
	Dovercourt ...	mbcw	bc	61	72	-	-	7·8	7·2
	Lowestoft ...	b	bbcz	56	68	-	-	10·1	6·0
	Skegness ...	ocbc	bco	57	67	-	-	4·2	4·4
	Mablethorpe...	obc	bcom	54	65	-	-	1·2	*
	Cleethorpes ...	orbc	crc	58	65	0·5	Trace	0·7	3·0
3	Leamington S.	bbc	bcc	59	77	-	-	7·7	0·6
4	Cheltenham†	zubcc	bcc	55	78	-	-	8·3	3·0
5	Bath	b	bbc	56	78	-	-	8·0	1·4
	Weymouth ...	b	b	54	72	-	-	11·2	7·1
	Jersey ...	bcb	bc	61	79	-	-	9·6	10·5
	Torquay ...	wbbcb	b	56	71	-	-	10·0	0·8
	Falmouth ...	b	b	61	70	-	-	6·5	0·0
	Penzance ...	bcbbc	b	60	73	Trace	-	7·8	0·0
	St. Ives ...	b	b	59	73	-	-	9·9	0·8
	Bude... ...	bc	bcb	58	76	-	-	6·1	2·9
	Ilfracombe ...	cbcb	bbcc	60	73	-	-	10·0	2·4
6	Aberystwyth	cbcc	bcc	60	76	-	-	8·2	4·6
7	Llandudno ...	cbc	bccm	59	73	-	-	3·6	1·0
	Colwyn Bay...	cbcc	czc	60	71	-	-	2·0	1·3
	Rhyl	cm	bccg	61	73	-	-	2·3	2·1
8	Wallasey ...	fo	orm	63	71	-	Trace	0·0	2·0
	Southport ...	ozcb	bzgbz	60	74	-	-	1·3	1·2
	Blackpool ...	cm	cbcm	61	75	-	-	2·1	2·8
	Morecambe ...	cbc	bccp	61	72	-	Trace	0·7	2·7
9	Ilkley... ...	o	n	58	66	-	-	0·0	2·3
	Harrogate ...	roc	oc	58	63	0·4	1	0·0	5·0
10	Berwick-on-T.	om	mo	56	61	-	-	0·0	2·5
11	Dunbar ...	cm	cm	56	60	-	-	0·0	0·9
12	Troon... ...	coc	cbcco	59	69	-	-	5·7	5·8
	Douglas ...	b	b	60	72	-	-	7·7	1·6

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

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.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind between north and east, light; mainly cloudy; bright periods locally; some local light rain or drizzle especially in the morning in eastern counties; much cooler than of late.
5 S.W. England	As 19 - 20.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	As 1 - 4.
13 A. W. Scotld. B.N.W. Scotland.	Wind variable, light; fair or fine; rather warm.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind northerly, light; cloudy; occasional drizzle; local coast fog; rather cool.
17 N. W. Ireland 18 N. E. Ireland	As 6 - 12
19 S. E. Ireland 20 S. W. Ireland	Wind easterly, light to moderate; fair apart from a chance of local thunderstorms or thundery rain; average temperature.

GENERAL INFERENCE.

An anticyclone is centred north of the Shetland Islands and a complex trough of low pressure extends from mid-Atlantic to the Bay of Biscay. Weather will be mainly fair apart from some light rain or drizzle in the northeastern counties and a chance of local thunderstorms in southwest districts of the British Isles. Conditions will be much cooler in many areas.

FURTHER OUTLOOK.

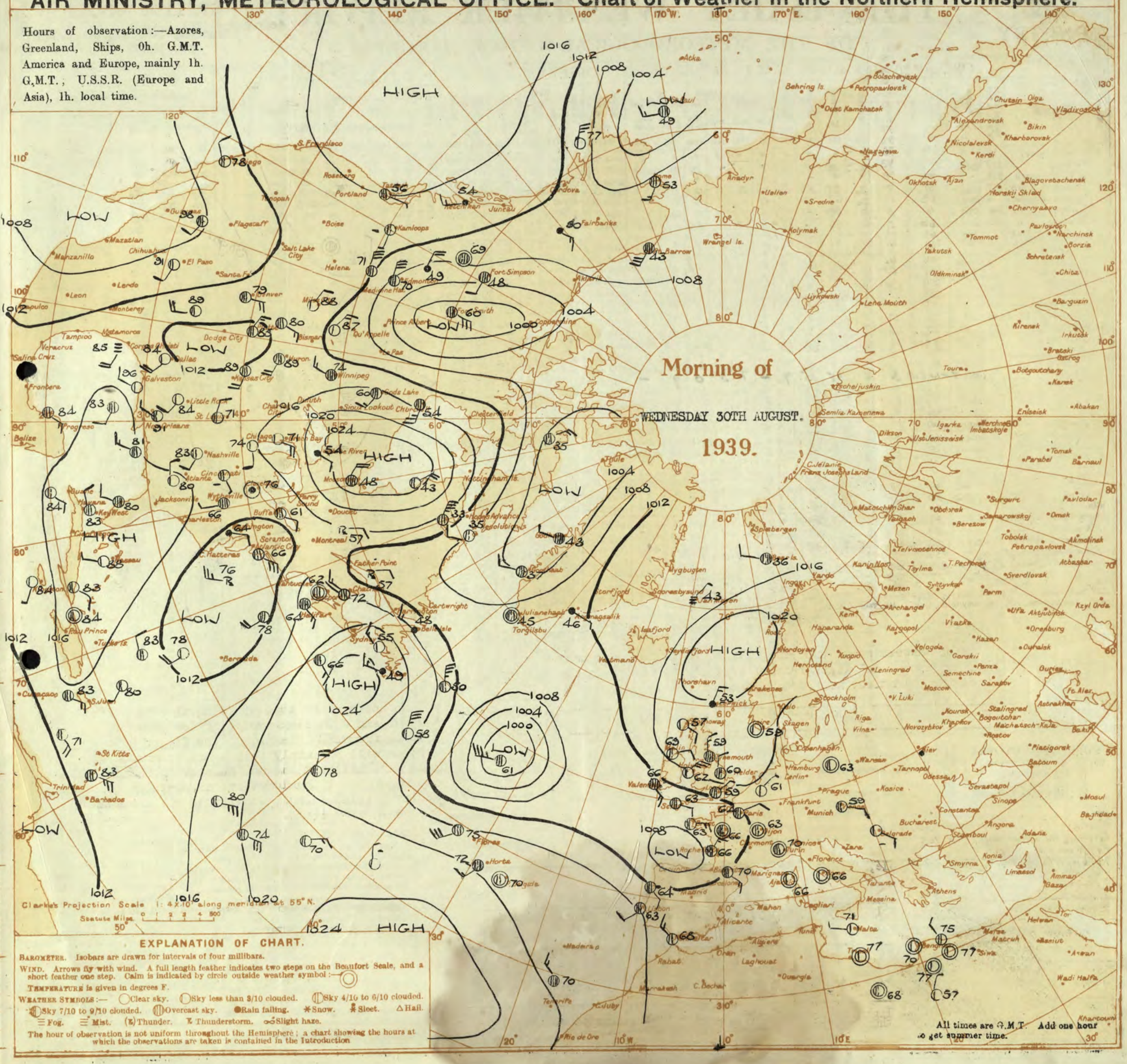
Mainly dry except in southwest districts; average temperature.

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.



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

Wednesday 30th August, 1939.

No. 28405

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 2 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	1015.5	-6	ENE	2	7o	59	97	6	5	-	-	9+	9+	450
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1014.0	-6	ENE	3	7o	59	85	5	-	3	-	0	1	-
	Calshot (Sthmtn.)	8	1013.6	-6	ENE	1	7o	64	75	7	5	-	-	9	9	1500
	Lympne ...	346	1014.0	-10	NNE	3	b	59	97	7	-	-	-	0	0	-
	Manston ...	154	1014.7	-10	NE'E	3	bc	60	92	6	5	-	-	4-6	4-6	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1015.9	-6	NNW	2	c	60	85	7	5	-	-	10	10	2500
	Mildenhall ...	19	1016.0	-2	NE'E	1	7o	59	97	5	5	-	-	10	10	800
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011.8	-8	NE	4	c	62	92	8	5	-	2	4-6	7-8	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1012.7	-8	E	3	c	62	85	7	2	-	-	10	10	4000
	Plymouth ...	82	1011.8	-14	ENE	3	8	65	85	7	-	7	3	0	9	-
	The Lizard ...	240	1010.4	-18	NE'N	4	c	63	97	7	8	6	-	7-8	9	2500
	Scilly (St. Mary's)	163	1010.8	-10	ESE	2	c	63	97	6	8	8	-	4-6	9+	1500
	Guernsey ...	175	1010.7	-20	NE	2	cl	62	92	8	8	3	-	7-8	9+	2500
6	Pembroke ...	142	1012.7	0	SSE	2	c	64	92	6	5	-	-	7-8	7-8	2500
7	Holyhead ...	26	1014.0	-6	ENE	5	bc	62	92	5	1	-	-	4-6	4-6	2500
	Chester (Sealand)	16	1016.2	0	-	0	m/f	59	92	4	5	3	-	4-6	7-8	2500
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1016.3	0	N	1	m/f	60	97	4	5	-	-	7-8	7-8	<150
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1018.0	-4	N	3	c	59	97	6	5	-	-	10	10	1500
11	St. Abbs Head	280	1018.4	-6	NNW	1	f+	57	97	1	-	-	-	10	10	<150
	Leuchars ...	36	1019.1	-2	-	0	7o	57	97	6	5	-	-	10	10	450
12	Renfrew (Abbots I.)	19	1018.6	-2	E'N	1	7o	57	92	5	5	-	-	9+	9+	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1016.7	+2	E	2	c	62	92	7	5	-	-	9+	9+	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1019.4	0	ESE	2	b	57	92	7	-	-	-	0	0	-
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1020.2	0	NE	2	c	54	97	5	5	2	-	9	10	1500
16	Lerwick ...	156	1020.4	-2	N'E	3	dd	53	97	6	5	-	-	10	10	450
17	Blacksod Point	18	1013.9	0	-	0	c	64	86	8	4	5	-	2-3	7-8	800
18	Malin Head ...	84	1017.1	+2	E	2	7o	63	86	6	-	-	4	0	1	-
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1011.9	0	SE'S	3	c	66	97	7	8	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 2 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount Low 0–10 (26)	Cloud. Amount Total 0–10 (27)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1014.9	+2	NE	3	7o	61	85	6	5	-	-	10	10	1500	0	*
	Croydon ...	1015.1	0	NE	2	7o	61	92	6	5	-	-	10	10	800	0	*
	S. Farnborough	1014.5	+10	ENE	3	7o	61	85	6	5	-	-	10	10	1500	0	*
	Boscombe Down	1013.6	+2	ENE	3	7o	59	92	5	5	-	-	7-8	7-8	1500	0	*
	Calshot (Sthmtn.)	1013.3	+8	NE'E	3	7o	62	85	6	1	3	5	Tr	2-3	1500	0	1
	Lympne ...	1014.7	+2	NE'E	3	7o	60	92	5	5	-	-	9+	9+	1500	0	§2
	Manston ...	1014.6	+6	NE	3	c	63	85	7	5	3	-	9	9	800	0	*
2	Shoeburyness ...	1015.0	+6	N	3	c	61	85	6	5	-	-	9+	9+	1500	0	*
	Felixstowe ...	1016.0	+2	NNE	3	7o	59	92	6	5	4	-	2-3	2-3	1500	0	2
	Gorleston ...	1014.8	+2	NW	2	c	63	75	6	5	-	-	9+	9+	2500	0	1
	Mildenhall ...	1015.8	+6	E'N	1	7o	59	92	6	5	-	-	9	9	1500	1	*
	Cranwell ...	1016.4	0	-	0	m/f	62	97	4	5	-	-	10	10	220	1	*
3	Birmingham ...	1016.1	-4	NE	2	0	58	85	5	5	-	-	10	10	800	1	*
	Upper Heyford	1015.9	+2	E	1	7o	57	92	5	5	-	-	10	10	450	1	*
4	Ross-on-Wye	1014.9	0	ENE	3	m	60	97	4	5	-	-	10	10	450	0	*
5	Hartland Point	1010.6	0	ENE	4	c	62	85	7	5	4	9	4-6	7-8	1500	0	2
	Bristol ...	1014.3	+6	NE	2	7o	59	92	6	5	-	-	10	10	1500	0	*
	Portland Bill ...	1012.6	+12	ENE	4	bc	61	85	7	2	-	-	4-6	4-6	4000	1	3
	Plymouth ...	1011.6	+12	E'S	4	c	63	75	8	3	-	-	9+	9+	2500	0	1
	The Lizard ...	1010.6	+2	E'N	3	c	63	97	7	8	6	-	7-8	9+	2500	0	2
	Scilly (St. Mary's)	1010.3	+2	E	3	c	63	97	7	8	6	-	4-6	9+	1500	1	2
	Guernsey ...	1010.6	+12	ENE	2	c	62	97	5	4	-	-	10	10	220	1	1
6	Pembroke ...	1012.9	+2	E	3	bc	61	92	6	-	7	-	0	4-6	-	1	1
7	Holyhead ...	1013.4	0	E'N	5	c	61	85	7	8	-	-	7-8	7-8	2500	1	2
	Chester (Sealand)	1015.7	+2	-	0	m	60	92	4	5	-	-	9+	9+	4000	1	1
8	Manchester ...	1016.1	+8	ENE	1	m	60	85	4	5	-	-	9+	9+	4000	1	*
10	Spurn Head ...	1015.3	+6	NNW	2	c	60	97	6	5	2	-	4-6	7-8	450	0	1
	Catterick ...	1016.4	+2	N'E	1	7o	60	97	5	5	-	-	10	10	800	1	*
	Tynemouth ...	1017.0	+2	NNW	3	c	59	97	6	8	-	-	9	9	1500	1	1
11	St. Abbs Head	1017.7	-6	NE	2	c	57	92	7	5	3	-	7-8	9+	1500	0	2
	Leuchars ...	1018.2	+2	NE	2	c	57	97	7	5	2	-	9	10	450	1	*
12	Renfrew (Abbots I.)	1017.8	-2	E	2	7o	58	92	5	5	3	-	2-3	4-6	2500	0	*
	Eskdalemuir ...	1017.4	+2	NE'E	2	c	56	92	6	5	-	-	9+	9+	800	1	*
	Point of Ayre...	1016.1	-2	E'N	2	c	61	92	6	-	3	-	0	9+	-	0	1
13A	Tiree ...	1017.2	0	ENE	2	b	57	92	7	5	-	-	1	1	4000	0	1
13B	Stornoway ...	1018.9	-8	SE	2	b	58	92	7	1	4	-	Tr	1	4000	1	1
15	Dalwhinnie ...	*	-2	N	1	c	54	97	6	5	-	-	9+	9+	1500	0	*
	Aberdeen ...	1018.8	+2	-	0	c	56	97	7	5	-	-	9+	9+	800	0	1
	Wick ...	1019.0	-2	NE	1	do.	52	97	6	5	2	-	7-8	10	800	1	1
16	Lerwick ...	1019.4	-2	N'E	4	id.	53	97	6	5	-	-	10	10	450	1	*
17	Blacksod Point	1012.8	-2	-	0	bc	63	92	6	-	5	4	0	4-6	-	0	0
18	Malin Head ...	1016.5	+2	E	4	c	59	85	6	4	-	-	9	9	4000	0	2
	Aldergrove ...	1015.9	+2	E'N	2	7o	57	92	6	5	-	-	7-8	7-8	2500	1	*
19	Birr Castle ...	102.8	-4	-	0	c	61	97	7	5	-	-	10	10	2500	0	*
20	Valentia Obsy. †	1011.0	-4	E	3	c	68	75	8	7	5	6	2-3	7-8	4000	0	1
	Roches Point	1012.0	-2	E'S	3	cf	62	97	3	5	-	-	4-6	7-8	<150	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 29th Hrs. (36)
1	London (Kew)	77	61	59	-	-	10.6
	Croydon ...	77	59	51	-	-	12.2
	S. Farnborough	80	59	51	-	-	9.3
	Boscombe Down	77	58	54	-	-	10.4
	Calshot (Sthmtn.)	73	59	57	-	-	12.3
	Lympne ...	73	57	56	-	-	10.0
	Manston ...	71	59	55	-	-	8.7
2	Shoeburyness ...	72	59	53	-	-	10.0
	Felixstowe ...	72	59	57	7	-	8.3
	Gorleston ...	66	60	59	-	-	9.0
	Mildenhall ...	78	57	57	8	2	8.1
	Cranwell ...	75	55	55	6	Tr	2.2
3	Birmingham ...	75	57	56	16	6	6.5
	Upper Heyford	78	56	57	-	-	*
4	Ross-on-Wye	76	59	57	-	-	6.2
5	Hartland Point	74	61	58	-	-	6.7
	Bristol ...	76	56	46	-	-	9.8
	Portland Bill ...	67	59	*	-	-	*
	Plymouth ...	75	63	61	-	-	6.3
	The Lizard ...	69	61	*	-	-	9.6
	Scilly (St. Mary's)	71	61	*	-	Tr	10.4
	Guernsey ...	78	61	52	-	7	11.4
6	Pembroke ...	71	59	*	-	-	3.4
7	Holyhead ...	69	60	59	-	-	3.9
	Chester (Sealand)	79	56	52	Tr	-	2.2
8	Manchester ...	72	59	53	-	-	0.0
10	Spurn Head ...	65	59	*	Tr	-	1.2
	Catterick ...	64	57	55	-	Tr	0.0
	Tynemouth ...	62	58	56	-	-	1.7
11	St. Abbs Head	59	56	*	-	-	*
	Leuchars ...	*	56	56	*	1	0.0
12	Renfrew (Abbots I.)	67	57	52	Tr	-	0.0
	Eskdalemuir ...	65	52	49	0.3	-	0.1
	Point of Ayre...	68	60	*	-	-	3.3
13A	Tiree ...	68	53	48	-	-	11.0
13B	Stornoway ...	66	56	*	-	-	11.9
15	Dalwhinnie ...	66	52	44	-	-	6.7
	Aberdeen ...	62	54	49	-	-	1.8
	Wick ...	57	52	*	-	Tr	*
16	Lerwick ...	55	52	*	Tr	1	0.0
17	Blacksod Point	72	61	*	-	-	*
18	Malin Head ...	64	57	*	-	-	12.3
	Aldergrove ...	72	55	50	-	-	4.6
19	Birr Castle ...	72	60	54	Tr	-	0.2
20	Valentia Obsy. †	76	65	60	-	-	6.0
	Roches Point	70	61	*	0.1	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	fcbbcy	beybbc	becnw	77	61	59	-	-	10.6	*	*	6
CROYDON ...	217	bcnybc	beybc	bcbnw	77	59	51	-	-	12.2	*	*	6
GREENWICH (Royal Observatory)...	149	by	by	bwcn	77	60	52	-	Tr	10.5	45	80	6
CITY (Sunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	78	61	60	-		10.1	45	74	*
REGENTS PK. (Botanic Gardens)‡...	168	*	*	*						10.7			*
CAMDEN SQUARE ...	110	bc	bc	*	80	60	59	-	-	*	*	82	*
KENSINGTON ...	80	bbc	bc	*	79	60	58	-	-	10.4	At 18h 55	78	*
HAMPSTEAD OBSERVATORY ...	450	b	bc	bc	75	57	56	-	-	10.2	*	84	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
<0.3	whole period		

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.3	8h	<0.1	14-17h
	29th		29th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 29th August. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 30th August. 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 ...	1012.2	NE	2	c	73	1011.7	-	0	7o	64	82	63	0.8	1
BRUSSELS ...						1013.6	NE	2	m	57		59		-
BERLIN ...	1014.8	ESE	1	c	70						73		Tr	
ZURICH ...	1013.6	NNE	1	b	72	1014.6	SE	1	7o	68	73	57	-	7
ROME ...	1012.9	W	3	bc	75	1014.0	E	2	b	70	*	*	-	-

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 9 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 31st August, 1939,
No. 28406.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	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)...	1014.5	-4	ENE	3	c	68	65	6	-	-	4	0	7-8	-
	Croydon ...	1014.6	-4	NEE	2	c	70	65	6	1	4	2	2-3	9+	4000
	S. Farnborough	1013.9	-8	NE	3	zo	71	65	6	1	-	2	1	4-6	4000
	Boscombe Down	1013.6	-10	ENE	3	zo	69	75	6	1	3	1	2-3	7-8	4000
	Calshot (Soton.)														
	Lympne ...	1014.6	-2	ENE	3	bc	68	65	8	1	-	1	4-6	4-6	2500
	Manston ...	1014.7	+2	NE	3	c	67	75	7	1	-	5	7-8	9	1500
2	Shoeburyness ...	1014.7	-8	ENE	4	bc	68	75	8	7	7	-	4-6	4-6	2500
	Felixstowe ...	1014.9	-2	E	3	c	69	65	8	7	-	5	2-3	7-8	4000
	Gorleston ...	1015.3	0	N'E	3	bc	67	75	6	2	-	-	2-3	2-3	2500
	Mildenhall ...	1014.6	-8	N'E	1	bc	69	65	7	1	-	-	4-6	4-6	4000
	Cranwell ...	1014.7	-14	NE'E	3	c	68	65	7	2	-	-	7-8	7-8	2500
3	Birmingham ...	1015.2	-4	ENE	3	bc	66	65	6	5	-	-	4-6	4-6	2500
	Upper Heyford	1015.3	-6	ENE	2	zo	66	75	6	2	4	-	7-8	7-8	1500
4	Ross-on-Wye ...	1014.2	-8	NE'E	3	c	68	75	7	7	-	1	4-6	7-8	2500
5	Hartland Point														
	Bristol ...	1013.7	-10	ENE	2	zo	67	75	7	4	4	8	4-6	4-6	1500
	Portland Bill ...	1012.7	+4	ENE	4	c	62	85	7	5	7	-	7-8	10	4000
	Plymouth ...	1012.3	-2	E	4	c	64	85	6	5	-	-	7-8	10	800
	The Lizard ...	1011.4	+4	E'S	5	c	64	92	7	5	2	-	9	10	1500
	Scilly (St. Mary's)	1011.1	0	ESE	4	c	68	92	6	8	6	2	4-6	7-8	1500
	Guernsey ...	1011.3	0	ESE	3	c	65	97	5	-	-	-	10	10	<150
6	Pembroke ...	1012.7	-4	SES	4	bc	68	75	6	5	1	-	2-3	4-6	2500
7	Holyhead ...	1013.9	-6	ENE	2	c	68	75	6	5	-	-	7-8	7-8	1500
	Chester (Sealand)	1014.8	-12	E	2	zo	69	65	6	8	-	-	7-8	7-8	2500
8	Manchester ...	1015.2	-10	SES	2	zo	69	65	6	5	-	-	9+	9+	4000
10	Spurn Head ...	1014.9	-2	NE	3	bc	68	75	7	1	-	-	2-3	2-3	2500
	Catterick ...	1016.0	-8	NE	3	zo	66	75	6	8	6	-	4-6	4-6	2500
	Tynemouth ...	1017.2	-2	NNE	3	c	62	92	6	8	-	-	7-8	7-8	1500
11	St. Abbs Head...	1018.1	0	NNE	2	c	59	85	8	7	6	-	4-6	7-8	1500
	Leuchars ...	1018.5	-4	E	3	c	62	75	8	8	7	-	4-6	7-8	2500
12	Renfrew (Abbotsl.)	1017.2	-8	ENE	3	c	65	75	7	8	-	-	9+	9+	4000
	Eskdalemuir ...	1017.1	0	ENE	4	c/d	60	85	7	5	-	-	9+	9+	1500
	Point of Ayre ...	1016.0	-8	E	2	b	67	75	8	-	-	-	0	0	-
13A	Tiree ...	1016.6	-2	E	3	bc	67	65	7	1	3	-	1	4-6	4000
13B	Stornoway ...	1018.9	-2	NE	3	b	61	85	7	2	-	-	1	1	4000
15	Dalwhinnie ...	1017.8	-8	S	3	c	63	65	8	5	2	-	4-6	10	4000
	Aberdeen ...	1018.7	-2	E	1	c	59	85	8	8	-	-	9+	9+	1500
	Wick ...	1013.2	-8	NE	1	c	57	85	8	5	7	1	7-8	9+	1500
16	Lerwick...	1017.0	-26	NE	2	bc	59	85	8	5	-	1	4-6	4-6	1500
17	Blacksod Point...	1012.2	-10	E'S	3	c	60	75	6	•	3	•	0	7-8	-
18	Malin Head ...	1016.0	-4	E	4	bg	61	75	7	5	-	1	2-3	4-6	5700
	Aldergrove ...	1015.4	-8	E	3	zo	66	75	6	7	-	-	7-8	7-8	5700
19	Birr Castle ...	1012.5	-6	S	1	c	70	75	7	5	1	-	7-8	10	1500
20	Valentia Obsy.†	1010.3	-6	SES	4	bc	73	65	7	1	4	1	2-3	4-6	4000
	Roches Point ...	1012.0	0	E'S	4	zo	67	92	6	1	-	-	4-6	4-6	2500

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

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)	1012.9	-8	ENE	2	zo	69	65	6	-	3	4	0	2-3	-	0	*
Croydon	1013.5	-6	E'N	2	bc	67	75	7	-	3	9	0	4-6	-	0	*
S. Farnborough	1012.7	-6	E'N	2	zo	69	65	6	-	3	1	0	4-6	-	0	*
Boscombe Down	1012.3	-8	ENE	2	zo	67	75	6	5	7	-	7-8	7-8	7200	0	*
Calshot (Soton.)	1012.1	-8	ESE	4	zo	68	85	6	-	-	4	0	Tr	-	0	2
Lympne	1018.9	-8	NEN	3	bc	63	75	8	-	4	2	0	2-3	-	0	§2
Manston	1013.8	-4	NEE	3	bc	63	85	7	-	7	4	0	2-3	-	0	*
Shoeburyness	1014.1	-4	NE	2	bc	64	85	8	-	4	1	0	2-3	-	0	*
Felixstowe	1013.9	-4	E	2	bc	65	85	8	5	-	1	1	2-3	1500	0	2
Gorleston	1014.1	-4	N'E	2	bc	66	85	6	2	-	-	4-6	4-6	2500	0	1
Mildenhall	1013.6	-6	NEN	2	b	67	75	8	7	-	1	Tr	1	4000	0	*
Cranwell	1014.4	-2	E'N	1	b	65	75	7	4	-	-	Tr	Tr	4000	0	*
Birmingham	1013.9	-6	ESE	1	bc	67	65	7	7	-	6	1	2-3	2500	1	*
Upper Heyford	1013.9	-6	E'S	1	b	67	75	7	-	4	-	0	1	-	0	*
Ross-on-Wye	1013.1	-8	NE'E	2	zo	66	75	6	-	9	9	0	4-6	-	0	*
Hartland Point	1011.0	-6	E	3	c	65	85	7	5	2	-	7-8	9+	1500	0	2*
Bristol	1012.7	-2	E'N	2	zo	67	85	7	8	7	-	4-6	7-8	4000	0	
Portland Bill	1011.8	-6	SE	4	c	64	92	7	5	4	-	4-6	7-8	4000	1	3
Plymouth	1011.5	0	E'S	3	c	64	92	6	5	-	-	10	10	1500	0	2
The Lizard	1010.7	-8	ESE	2	id	63	97	4	5	-	-	10	10	800	1	2
Scilly (St. Mary's)	1010.4	-8	ESE	3	cip	64	97	5	5	2	-	7-8	10	800	0	2
Guernsey	1010.8	-2	-	0	zo	67	85	6	1	3	-	Tr	4-6	1500	1	1
Pembroke	1011.8	-6	SE'S	4	zo	64	85	6	5	-	-	10	10	1500	1	2
Holyhead	1012.1	-10	ENE	3	b	66	85	6	1	-	-	1	1	4000	1	1
Chester (Sealand)	1013.5	-10	SSE	2	zo	69	65	6	8	-	-	7-8	7-8	2500	0	*
Manchester	1013.8	-6	SE	2	zo	69	65	6	8	-	-	7-8	7-8	4000	0	*
Spurn Head	1014.3	0	NE	2	bc	63	92	7	5	-	-	2-3	2-3	1500	0	1*
Catterick	1015.5	-2	NEN	2	zo	62	85	6	5	3	-	7-8	9	1500	1	
Tynemouth	1016.7	0	NE	3	c	60	92	6	8	-	-	9	9	1500	1	1
St. Abbs Head	1016.9	-4	-	0	bc	57	92	8	8	6	1	4-6	4-6	2500	0	1
Leuchars																*
Renfrew (Abbotsl.)	1016.0	-6	E'N	3	bc	63	75	7	5	3	-	4-6	4-6	4000	0	*
Eskdalemuir	1015.9	-6	NE	3	d	59	85	7	5	-	-	7-8	7-8	1500	1	*
Point of Ayre	1013.9	-12	E	3	bc	64	85	7	1	-	-	2-3	2-3	4000	0	1
Tiree	1014.7	-10	NE'E	2	b	62	85	8	-	-	5	0	Tr	-	0	2
Stornoway	1017.5	-14	NE	4	bc	57	92	7	6	-	-	2-3	2-3	4000	0	2
Dalwhinnie	1016.8	-14	S	2	c	61	65	8	4	4	1	4-6	7-8	4000	0	*
Aberdeen	1017.7	-2	NE	2	c/d	56	92	6	5	-	-	10	10	800	0	1
Wick	1018.0	+4	NE	1	c	55	92	8	5	2	-	7-8	10	1500	1	1*
Lerwick	1015.7	+4	NNE	2	c	56	92	8	5	7	-	7-8	9+	1500	0	
Blacksod Point	1009.7	-16	ESE	3	c	68	85	6	-	1	-	0	7-8	-	0	2
Malin Head	1014.2	-8	E	4	bc	62	75	7	-	7	4	0	4-6	-	0	2*
Aldergrove	1013.7	-8	E'S	2	zo	64	75	6	5	-	-	9+	9+	7200	1	
Birr Castle	1011.2	-8	S	2	c	69	75	7	3	3	8	4-6	7-8	1500	0	*
Valentia Obsy.†	1008.5	-8	ESE	3	c	67	75	7	5	-	-	9+	9+	1500	0	1
Roches Point	1010.8	-8	SE'S	3	c	64	97	7	5	-	-	9+	9+	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 30th (37)	Weather 13h.—18h. 30th (38)	Weather 18h. 30th to 1h. 31st (39)	Weather 1h.—7h. 31st (40)
London (Kew)	czbczo	bczo	bbcc	cm
Croydon	cmoc	cbczo	bcbmow	bmowFe
S. Farnborough	cmobcz	bcz	bccbc	bwof
Boscombe Down	cmo bcmo	bczcz	mcbc	bmo, cmo
Calshot (Soton.)		czbzo	bmocmo	bcmoom
Lympne	cmobc	bcbo	bcbmow	bccmw
Manston	cbcc	cbc	bcmofgw	bmoc
Shoeburyness	cmobc	bcb	bbcw	FFemoc
Felixstowe	bcmoc	cb	bbc	bcwcmo
Gorleston	cbc	bc	bccmzo	czo
Mildenhall	bcc	bc	bbccmo	cmowcmo
Cranwell	ombcmobc	bcb		ocmo
Birmingham	obc	bc	bcb	bcdom
Upper Heyford	cmoz	czcbczb	bccmo	cmobmof
Ross-on-Wye	dmomczo	cbczo	czoor	om
Hartland Point		c	cbc	bcc
Bristol	cmobczo	bcczo	bcbcmo	bccmom
Portland Bill	bcc	c	cpr	co
Plymouth	c	cm	cmoomid	oidomm
The Lizard	c	cido-	oid if	cidc
Scilly (St. Mary's)	cbcc	cm	cmodoc	c
Guernsey	odFom	ocbcc	bcw	bcwF
Pembroke	bcm	bcmoc	ddidomoc	cmo
Holyhead	cmobc	bczcb	bwmob	bmorc
Chester (Sealand)	cmwbcmo	cbcczo	bbcmw	bmwomw
Manchester	cmbzcz	cbczo	bmo	bmobcmw
Spurn Head	cpc	b	bcc	cf
Catterick	cmobczo	bczcmo	rorocmo	cmoofF
Tynemouth	c	cbcc	cbc	bcm
St. Abbs Head	c	cbc	bcc	ciro
Leuchars	cbc		cbccw	cwb, cw
Renfrew (Abbotsl.)	bcwzo	cbc	bccmobc	bcbwcmo
Eskdalemuir	cid	idbc	bcc	cwmo
Point of Ayre	cbocb	bbc	bcc	cbc
Tiree	bbc	bcb	bbc	bcc
Stornoway	b	bbc	bcbw	bw
Dalwhinnie	c	c	•	c
Aberdeen	c	cid	cmo	cmo
Wick	doccd	c	c	c
Lerwick	oidbc	bcc	croro	cofdmo
Blacksod Point	o	bc	c	c
Malin Head	bczz bc	bczzbc	bcczozc	czozc
Aldergrove	czo	bc	czoc	cmo
Birr Castle	c	c	c	c
Valentia Obsy.†	cbc	bcc	c	cproc
Roches Point	cbcz	bczoc	oid	oidoc

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.

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 .. „ [illegible]
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.*

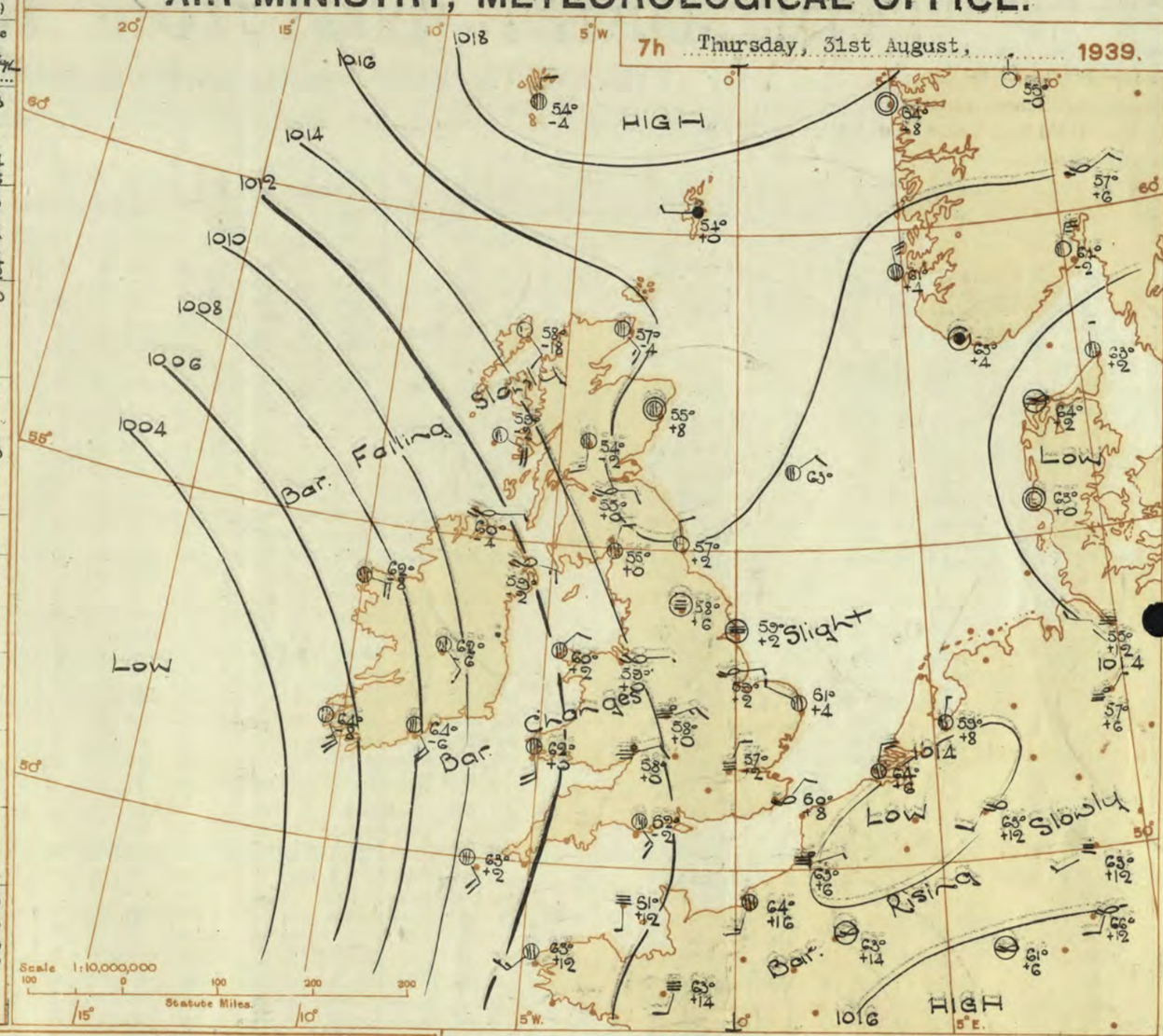
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 30th August 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 29th 9h. to 30th 9h.	Temperature. (°F) Max. 9h.—17h. 30th	Rainfall. (mm.) Night. 29th 17h. to 30th 9h.	Rainfall. (mm.) Day. 9h.—17h. 30th	Sunshine. (Hrs.) Sunrise to 17h. 30th	Sunshine. (Hrs.) Sunrise to Sunset. 29th
1	Tunbridge W.	oc	cbcb	58	71	-	-	4.3	12.8
	Bournemouth	bcco	rbc	58	71	-	6	4.5	11.6
	Ventnor ...	ocz	cbz	60	70	-	-	5.4	11.3
	Southsea ...	bcb	bbc	60	75	-	-	7.9	12.4
	Bognor Regis	bc	bcbbc	58	73	-	-	7.5	12.6
	Littlehampton	bbc	bc	58	73	-	-	8.6	12.3
	Worthing ...	b	b	58	74	-	-	9.1	12.6
	Brighton ...	bbc	bc	59	76	-	-	9.7	12.7
	Eastbourne†...	b	bbc	58	70	-	-	10.2	12.4
	Hastings† ...	bbc	b	58	73	-	-	10.2	12.2
	Folkestone ...	bc	bc	60	71	-	-	7.5	10.0
	Dover ...	cbc	bc	62	70	-	-	6.4	9.4
	Deal	ocbco	bcb	62	72	-	-	6.2	9.6
	Ramsgate ...	bc	bc	62	67	-	-	6.8	7.8
	Margate ...	cbc	bc	62	67	-	-	7.4	8.3
2	Southend ...	o	cbcb	60	71	-	-	5.0	10.3
	Clacton-on-Sea	bc	bcebc	58	68	-	-	5.4	7.9
	Dovercourt ...	bc	bc	58	69	-	-	6.8	8.5
	Lowestoft ...	b	b	58	67	-	-	9.1	10.3
	Skegness ...	ocb	b	55	67	-	-	6.9	4.2
	Mablethorpe...	bcebc	bc	57	67	-	-	7.8	1.2
	Cleethorpes ...	cbc	bcb	57	68	-	-	6.9	0.7
3	Leamington S.	oc	bcb	59	71	-	-	3.8	7.7
4	Cheltenham†	cbc	bbc	59	73	1	-	6.2	8.3
5	Bath	cbc	bcc	59	73	-	-	2.6	9.0
	Weymouth ...	cbc	pcb	60	69	-	0.5	4.1	12.7
	Jersey ...	rcbc	bcc	64	73	13	-	5.0	10.7
	Torquay ...	oRRr	omo	63	65	-	5	0.0	11.1
	Falmouth ...	o	o	63	64	-	-	0.0	7.3
	Penzance ...	bc	cm	62	67	-	-	0.4	8.3
	St. Ives ...	c	c	56	66	-	-	1.9	11.0
	Bude... ...	bcc	c	60	68	-	-	1.7	7.7
	Ilfracombe ...	cbco	bcco	62	67	-	-	4.9	10.1
6	Aberystwyth	cbcc	bcc	62	76	-	-	5.3	8.5
7	Llandudno ...	b	bcebc	59	72	0.1	-	8.5	2.6
	Colwyn Bay...	bcbcb	bcbcb	56	72	1	-	8.0	2.0
	Rhyl	bcmo	cbcbz	59	72	1	-	5.0	2.5
8	Wallasey ...	cbcz	bcz	60	73	-	-	6.8	0.0
	Southport ...	bczbz	bczcz	55	72	-	-	5.2	1.3
	Blackpool ...	bcb	bbcm	56	72	-	-	6.4	2.4
	Morecambe ...	bc	bc	59	72	-	-	4.1	0.7
9	Ilkley... ...	oc	bc	57	72	-	-	4.0	0.0
	Harrogate ...	cbc	bc	57	68	-	-	4.4	0.0
10	Berwick-on-T.	o	cbc	57	63	-	-	3.2	0.0
11	Dunbar ...	cmo	bcmo	56	60	-	-	1.6	0.0
12	Troon... ...	bcbbc	bcbcc	56	69	-	-	5.1	5.8
	Douglas ...	bc	bcz	57	67	-	-	5.7	8.5

† Max. Temp., for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 31st August, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind easterly, light, becoming south to southwest later; fair at first, local thunderstorms probable towards evening in the Southeast, spreading north; morning fog; rather warm.
5 S.W. England 6 South Wales ... 7 North Wales ...	Wind veering southeast to south, moderate to fresh locally later; cloudy and brighter periods at first, occasional rain later; local coast fog; rather warm and close.
8 N.W. England 9 N. Midlands ... 10 N.E. England	Wind southeast, light to moderate; cloud increasing, light rain chiefly near the coast and local thundery rain or thunderstorms; morning fog; warm.
11 S.E. Scotland	Wind variable light; mainly fair, chance of local coast fog; rather warm.
12 S.W. Scotland & Isle of Man.	As 7 - 9.
13 A. W. Scotld. B.N.W.Scotland.	Wind southeast, moderate, freshening; fine at first; cloudy, some rain later; warm.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind variable, light; cloudy, local drizzle and fog; close.
17 N. W. Ireland	As 19 - 20.
18 N. E. Ireland	As 7 - 9.
19 S. E. Ireland 20 S. W. Ireland	Wind southeast, veering south, fresh to strong off the west coast; becoming cloudy with occasional rain; local coast fog; rather warm and close.

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

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

GENERAL INFERENCE.

An anticyclone is centred over the Faeroes. A deep depression will become stationary over the Northeast Atlantic and a feeble trough of lower pressure over our southwest districts will move north. Conditions will be rather warm generally in the eastern counties. Weather will be fair at first but with an increasing probability of local thunderstorms. It will be less settled in the West with some rain.

FURTHER OUTLOOK.

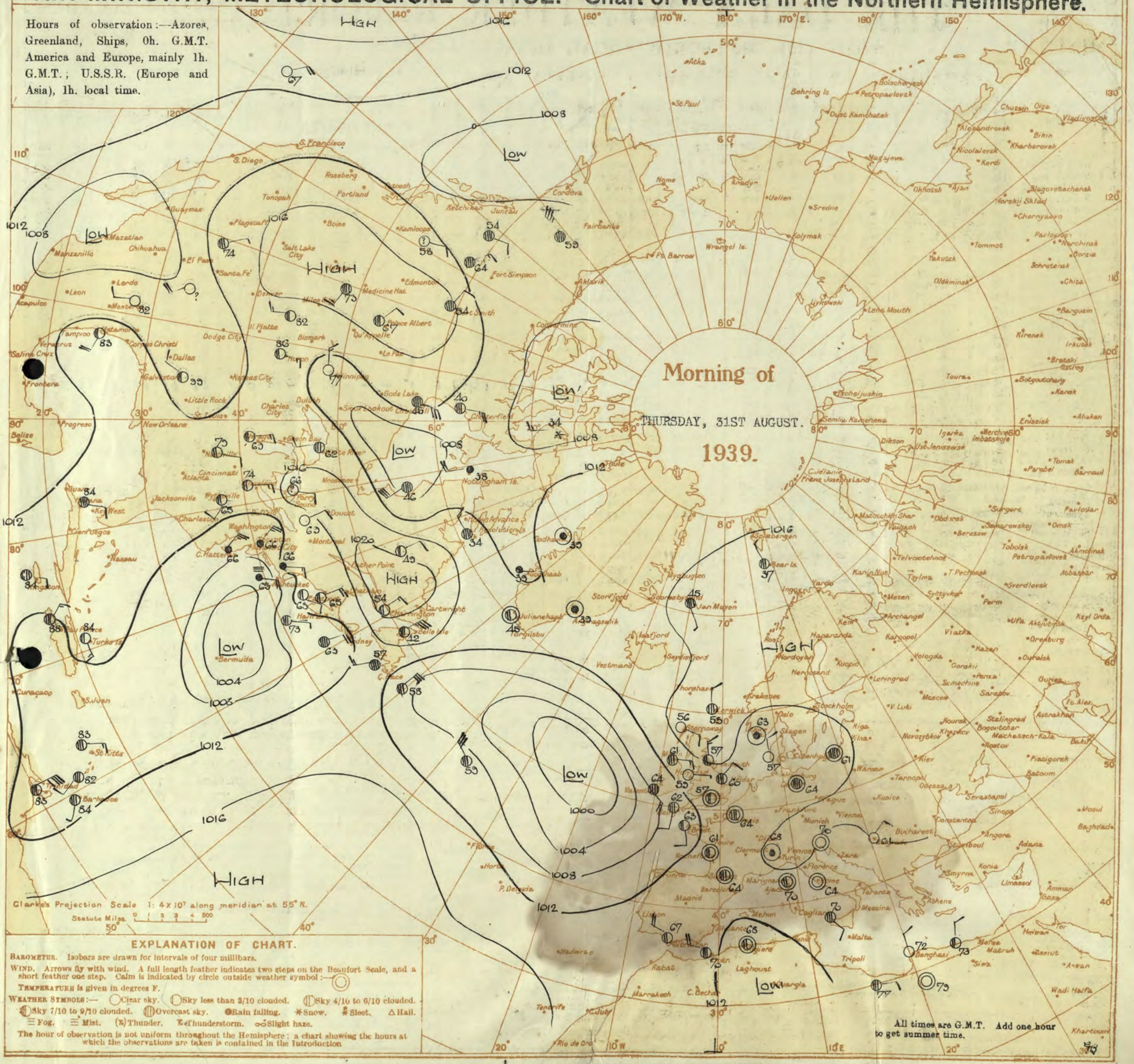
Continuing rather warm.

Forecasts issued at 0930 G.M.T.

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

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

Thursday, 31st August, 1939.

No. 28406

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1014·7	+2	–	0	z.	57	92	6	–	–	9	0	Tr	–
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	1013·4	–2	E	1	z.	59	85	5	5	–	–	7·8	7·8	5700
	Calshot (Sthmtn.)	8	1013·2	0	E'N	3	z.	63	92	6	5	–	–	4·6	4·6	5700
	Lympne	346	1014·7	+2	ENE	2	z.	57	97	6	–	–	–	0	0	–
	Manston	154	1014·7	+2	–	0	fg	57	97	6	5	–	–	9+	9+	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1014·7	0	N'E	1	c	61	92	5	5	–	–	10	10	1500
	Mildenhall	19	1015·0	+4	ENE	1	z.	58	97	5	5	–	–	10	10	800
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	209	1011·2	–2	E	3	bc	61	97	7	4	3	–	2-3	4-6	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1012·6	+8	E	3	c	63	85	7	5	–	–	7·8	7·8	4000
	Plymouth	82	1011·8	–4	E	1	id.	61	97	5	5	–	–	10	10	450
	The Lizard	240	1011·4	0	SE	2	c	59	97	7	5	2	–	9	10	1500
	Scilly (St. Mary's)	163	1010·5	0	SSE	2	c	61	97	7	5	2	–	7·8	10	1500
	Guernsey	175	1011·6	0	S	2	bc	62	97	8	–	3	8	0	2-3	–
6	Pembroke	142	1011·1	–4	E'S	4	c	62	97	6	5	6	–	4·6	7·8	1500
7	Holyhead	26	1012·3	–2	ESE	1	b	59	92	6	–	–	–	0	0	–
	Chester (Sealand)	16	1014·5	+2	SE	1	m	56	92	4	–	3	–	9	1	–
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1014·1	0	NE	2	c	60	97	7	5	2	–	4·6	7·8	1500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1016·1	–8	N	3	bc	57	97	6	5	–	–	4·6	4·6	1500
11	St. Abbs Head	280	1016·6	–4	–	0	c	56	92	8	5	3	–	4·6	9	2500
	Leuchars	36	1016·6	–10	–	0	c	56	92	8	5	–	–	9	9	2500
12	Renfrew (Abbots I.)	19	1016·1	–4	E	3	z.	55	92	6	5	–	–	4·6	4·6	5700
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1014·1	0	SSE	4	c	62	85	7	4	7	–	Tr	9+	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1016·5	–8	SE	2	b	56	97	7	–	–	–	0	0	–
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1016·9	–4	SSE	2	c	54	92	8	5	2	–	7·8	10	1500
16	Lerwick	156	1017·2	–4	N	1	c	55	97	6	5	2	–	7·8	10	450
17	Blacksod Point	18	1008·2	–14	ESE	4	c	63	85	7	–	2	–	0	10	–
18	Malin Head	84	1012·6	–6	SE	3	c	61	92	7	9	–	–	9	9	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1007·1	–10	SSE	4	c	64	92	8	8	–	–	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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 (29)	Sea 0–9 (30)
1	London (Kew)	1014·1	+8	NE	2	m	59	92	4	5	–	–	10	10	1500	0	*
	Croydon	1014·0	+2	NE'N	2	f	57	97	2	–	–	–	10	10	1150	0	*
	S. Farnborough	1013·7	+4	ENE	2	m/f	57	97	4	5	–	–	10	10	450	0	*
	Boscombe Down	1013·2	+6	E	3	z.	58	92	3	5	–	–	10	10	800	0	*
	Calshot (Sthmtn.)	1012·8	+2	E'N	3	z.	63	92	5	5	–	–	10	10	800	0	§ 1
	Lympne	1014·4	+8	NE'E	2	z.	60	97	5	–	7	–	0	9+	–	0	2
	Manston	1014·0	+6	NE'N	2	c	60	97	6	5	3	5	1	7·8	1500	0	*
2	Shoeburyness	1014·5	+6	N'E	2	z.	61	97	5	5	3	–	9+	10	1500	0	*
	Felixstowe	1014·5	+4	N'E	3	z.	58	97	6	5	–	1	4·6	4·6	1500	0	1
	Gorleston	1014·6	+4	NW	1	c	61	92	6	5	6	–	7·8	9	2500	0	1
	Mildenhall	1014·8	+6	E	1	z.	58	92	6	5	–	–	10	10	1500	1	*
	Cranwell	1014·8	+2	E	1	z.	59	97	6	5	3	–	9	9+	450	0	*
3	Birmingham	1014·5	0	ENE	3	m	58	97	4	5	–	–	10	10	450	1	*
	Upper Heyford	1014·5	+4	E'S	2	m/f	57	97	4	5	–	–	10	10	220	0	*
4	Ross-on-Wye	1013·4	0	E'N	2	m	58	97	4	5	–	–	10	10	450	1	*
5	Hartland Point	1011·0	+6	ESE	2	c	61	97	7	5	3	–	4·6	9	1500	0	1
	Bristol	1012·9	+2	ESE	2	ir.	60	92	6	5	–	–	10	10	800	1	*
	Portland Bill	1012·1	–2	SE	3	o	62	92	7	5	–	–	10	10	2500	1	2
	Plymouth	1011·6	–6	SE	2	o	62	97	6	5	–	–	10	10	450	0	1
	The Lizard	1010·9	–4	SSE	2	c	62	97	8	8	2	–	9	10	1500	1	1
	Scilly (St. Mary's)	1010·2	+2	SE'S	4	c	63	97	7	8	7	–	7·8	10	1500	0	2
	Guernsey	1012·8	+2	S	1	cf	61	97	3	8	3	–	7·8	9	450	1	2
6	Pembroke	1010·8	0	SE	4	c	62	97	6	8	2	–	7·8	10	1500	1	2
7	Holyhead	1011·5	+2	NE'E	2	c/f	60	92	7	9	2	–	7·8	10	1500	0	0
	Chester (Sealand)	1014·1	0	E	1	z.	59	92	5	5	–	–	9+	9+	1500	0	*
8	Manchester	1014·5	+6	ESE	3	z.	56	97	5	–	5	–	0	7·8	–	1	*
10	Spurn Head	1014·6	+2	–	0	cf	55	97	3	5	–	–	10	10	1150	0	0
	Catterick	1015·7	+6	–	0	f	58	97	3	–	–	–	10	10	1150	1	*
	Tynemouth	1015·7	+2	NNW	2	bc	57	97	5	5	3	–	4·6	4·6	1500	1	1
11	St. Abbs Head	1015·6	–8	NW	1	ir.	56	97	7	8	2	–	7·8	10	800	1	1
	Leuchars	1016·1	+2	–	0	c	55	97	7	5	–	–	9	9	450	1	*
12	Renfrew (Abbots I.)	1015·6	0	E	2	z.	55	85	6	5	3	–	4·6	7·8	2500	0	*
	Eskdalemuir	1015·3	0	NNE	2	c	55	92	6	5	–	–	10	10	450	1	*
	Point of Ayre	1013·2	–2	SE'S	4	bc	61	85	7	4	–	–	2-3	2-3	1500	0	2
13A	Tiree	1012·3	–2	ESE	4	bc	59	85	8	5	–	–	4·6	4·6	4000	0	2
13B	Stornoway	1014·2	–18	SE	2	b	58	85	8	5	4	–	Tr	1	4000	1	1
15	Dalwhinnie	1016·4	–2	S	3	c	54	85	7	4	6	–	4·6	9+	2500	0	*
	Aberdeen	1016·7	+8	–	0	c	55	97	6	5	–	–	9+	9+	1500	0	1
	Wick	1015·6	–4	SE	3	c	57	85	8	5	2	–	7·8	10	1500	1	1
16	Lerwick	1017·1	0	W	1	dd.	54	97	6	5	–	–	10	10	800	1	*
17	Blacksod Point	1006·1	–8	ESE	4	c	62	85	6	–	2	–	0	9	–	0	3
18	Malin Head	1011·5	–4	E	1	z.	60	85	6	5	–	–	9+	9+	4000	0	1
	Aldergrove	1012·0	–2	ESE	3	z.	59	92	5	5	–	3	4·6	7·8	1500	1	*
19	Birr Castle	1008·6	–6	SE	2	c	62	97	7	6	2	–	4·6	10	1500	0	*
20	Valentia Obsy. †	1004·8	–8	SE'S	5	c/pr	64	85	8	9	2	–	9	10	1500	1	2
	Roches Point	1007·4	–6	SE'S	4	c	64	97	8	5	7	–	7·8	9+	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 30th Hrs. (36)
1	London (Kew)	72	58	52	–	–	5·3
	Croydon	72	54	50	–	–	5·7
	S. Farnborough	72	51	45	–	Tr	4·7
	Boscombe Down	70	57	54	–	–	2·2
	Calshot (Sthmtn.)	71	60	59	–	–	6·6
	Lympne	69	55	54	–	0·1	8·0
	Manston	69	55	46	–	Tr	7·9
2	Shoeburyness	70	56	49	–	–	6·9
	Felixstowe	70	55	54	–	–	8·4
	Gorleston	68	60	58	–	–	9·7
	Mildenhall	72	57	52	–	Tr	8·1
	Cranwell	71	57	55	–	–	7·4
3	Birmingham	68	56	51	–	0·1	4·5
	Upper Heyford	73	56	53	–	–	*
4	Ross-on-Wye	69	57	54	–	1	5·7
5	Hartland Point	67	61	57	–	–	3·1
	Bristol	72	57	48	–	0·3	3·0
	Portland Bill	65	59	*	–	–	*
	Plymouth	66	61	61	–	Tr	0·0
	The Lizard	65	59	*	Tr	Tr	0·0
	Scilly (St. Mary's)	70	60	*	–	Tr	4·9
	Guernsey	71	59	56	Tr	–	4·1
6	Pembroke	68	61	*	–	0·2	5·0
7	Holyhead	72	58	55	–	1	5·4
	Chester (Sealand)	73	56	49	–	–	5·8
8	Manchester	72	53	46	–	–	3·8
10	Spurn Head	68	58	*	Tr	–	7·7
	Catterick	68	57	56	–	0·2	4·2
	Tynemouth	63	56	52	–	–	2·5
11	St. Abbs Head	59	55	*	–	Tr	*
	Leuchars	*	53	41	*	–	3·2
12	Renfrew (Abbots I.)	67	54	49	–	–	3·5
	Eskdalemuir	62	52	51	Tr	–	0·5
	Point of Ayre	68	60	*	–	–	5·9
13A	Tiree	68	55	48	–	–	12·5
13B	Stornoway	62	53	*	–	–	12·5
15	Dalwhinnie	65	50	41	–	–	2·8
	Aberdeen	60	53	42	Tr	–	0·1
	Wick	58	53	*	Tr	–	*
16	Lerwick	61	53	*	Tr	1	5·[illegible]
17	Blacksod Point	71	60	*	–	–	*
18	Malin Head	64	57	*	–	–	8·9
	Aldergrove	69	59	56	–	–	4·7
19	Birr Castle	74	60	51	–	–	4·3
20	Valentia Obsy. †	75	64	61	–	0·5	8·3
	Roches Point	69	63	*	–	0·3	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity 15h. G.M.T. % (Yesterday.)	Humidity 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cz bcz	bcz.	bbcm	72	58	52	–	–	5·3	*	*	5
Croydon	217	cm.c	cbcz.	bmwfe	72	54	50	–	–	5·7	*	*	3
Greenwich (Royal Observatory)	149	c	cb	bcmw	71	56	46	–	Tr	4·3	65	92	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park)	27	*	*	*	73	57	53	–	–	3·9	67	71	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	73	57	51	–	–	6·0	63	94	*
Camden Square	110	c	c	*	73	58	54	–	–	*	*	94	*
Kensington	80	bc	bc	*	73	58	55	–	–	4·4	64	93	*
Hampstead Observatory	450									7·5	At 18h *		*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 31st.

South Kensington. Max.	Time.	Min.	Time.
<0·3	Whole period.		

Kew Observatory. Max.	Time.	Min.	Time.
0·2	9h 30th	<0·1	16h 30th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 30th August. Barom. mb.	Wind Direc.	Wind Force	Weather.	Temp. °F.	7h. G.M.T. 31st August. 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	1011·9	SSW	2	z.	72	1014·6	–	0	z.	63	75	61	Tr	–
Brussels	1012·2	NNE	2	c	68						72		–	
Berlin						1013·4	S	1	z.	64		63		Tr
Zürich	1014·0	–	0	bc	72	1016·8	ESE	1	bc	61		59	–	2
Rome	1014·6	–	0	b	77						79		–	
											*			

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.

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

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

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.