M.O. Form 2373

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THE DAILY WEATHER REPORT

BRITISH SECTION

1st April to 30th June

1940

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

INTRODUCTION

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

NOTES REGARDING THE BRITISH SECTION.

Description of each issue :—The British section is issued daily by 12.30 p.m. (except that Sunday's issue is printed on Monday) and contains—

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

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

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

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

(*e*) On p. 2, a table of weather reports from British health resorts for the previous day, arranged under forecast districts.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

THE INTERNATIONAL AND UPPER AIR SECTIONS.

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

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

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

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

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

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

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

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

THE BEAUFORT SCALE OF WIND FORCE

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

GALE WARNINGS

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

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

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

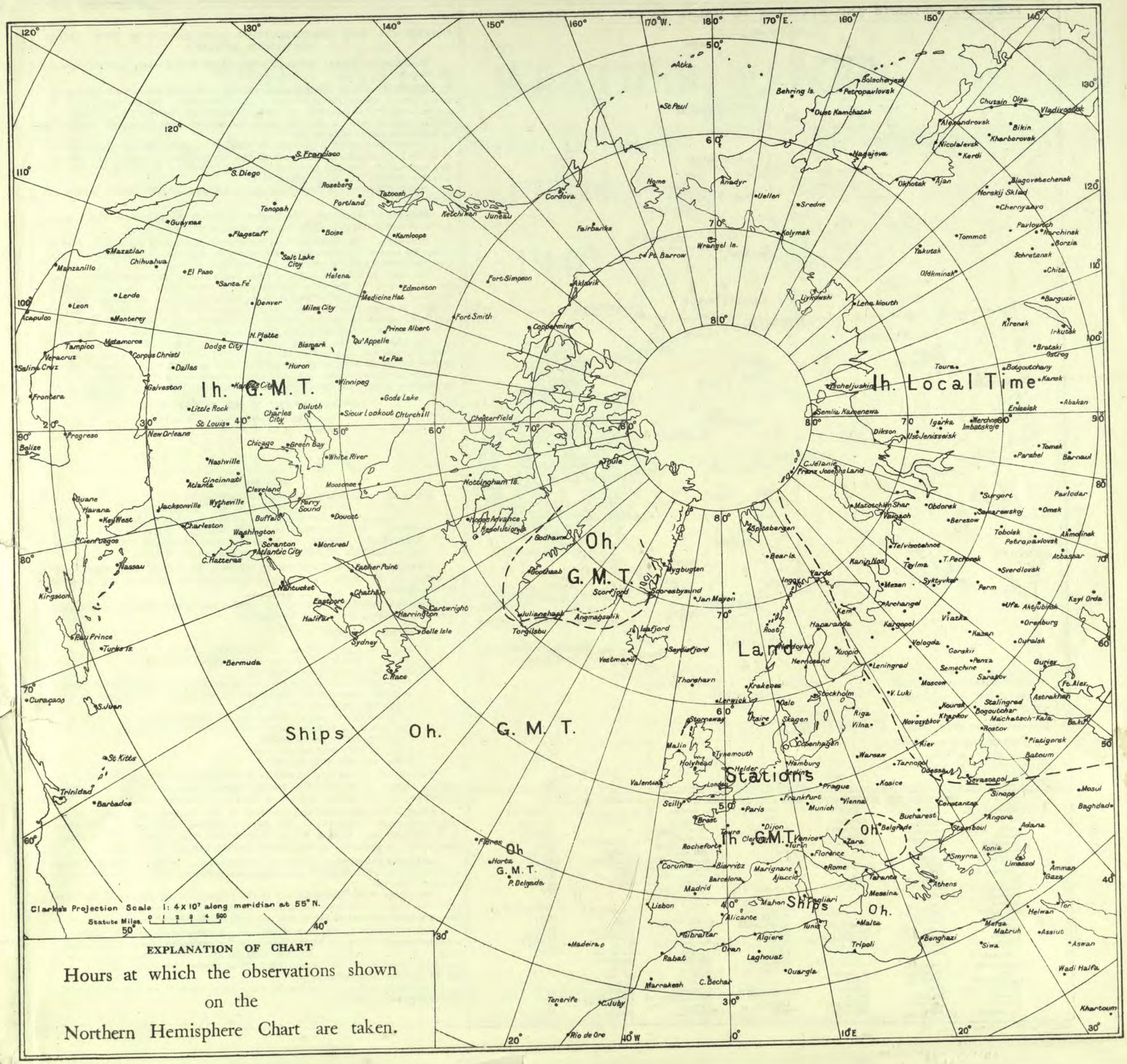
The *South Cone* (point downwards) is hoisted for gales commencing from a Southerly point. Such gales often veer, sometimes as far as Northwest.

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

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

▲ North Cone hoisted : ▼ South Cone hoisted :

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



EXPLANATION OF CHART

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

FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND

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

FORECAST DISTRICTS and the Counties comprised within them

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. *Mid Scotland.*
Perth.

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

16. *Orkneys and Shetlands.*

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

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

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

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

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

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

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

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

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

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

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

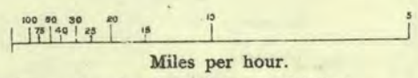
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the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

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

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

GEOSTROPHIC WIND SCALE FOR

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



Miles per hour.

This scale applies under the following conditions :—

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1-5 June missing

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THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.
MONTHLY SUPPLEMENT,
JUNE, 1940. No. 282

Marked excess of sunshine, warm and dry.

Conditions were mainly anticyclonic except for two short periods about the middle of the month. Rainfall was generally scanty, sunshine abundant and temperature well above the average especially at the beginning.

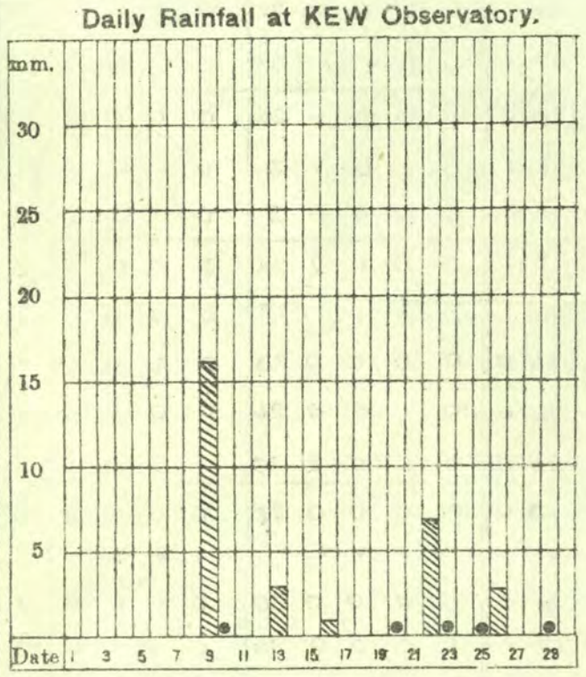
Between 3rd and 11th maxima of 80°F. or above were reported daily. The very high maximum of 91°F. was recorded at Cranwell on 9th while a number of places had 85°F. or above; 86°F. at Abbotsinch on 6th and 87°F. at South Farnborough on 8th. Subsequently it became cooler, but maxima of 75°-80°F. were reported from various districts except Scotland. On 23rd at Upper Heyford the maximum was only 53°F. Slight ground frosts occurred locally in the North. Rainfall was generally deficient, considerably less than half the average occurred at the majority of stations. Calshot had only 5 mm. and Shoeburyness and Leuchars 7mm., the record being broken at the latter station and at Aldergrove. Only 5 days yielded any appreciable falls. The largest was 26 mm. at Valentia on 28th, 25mm at Lizard and 22mm at Scilly Isles on 22nd. Droughts occurred at many stations.

Over 15 hours daily sunshine were recorded at numerous stations, the highest being 16·2 hrs. at Leuchars on 14th. The monthly total was much above average except in N.W. Scotland, the excess being between 75 and 120 hours at many places and many new records were established. The highest total was 311 hours at Holyhead.

Thundery conditions occurred on various days, notably 8th-10th, 16th and 26th-27th, but the storms were of a very local type. A severe storm occurred in West and North London on 9th, 16mm. being measured at Kew. The only gales recorded were at Pembroke on 25th and at Spurn Head on 26th.

Sea fog was frequent on the coasts during the hot spell especially in the East, and occasionally later in the month. A few radiation fogs occurred locally, and persisted all day at Kew on 10th when a remarkable black pall of lifted fog and smoke-haze occurred in South and East England during the morning.

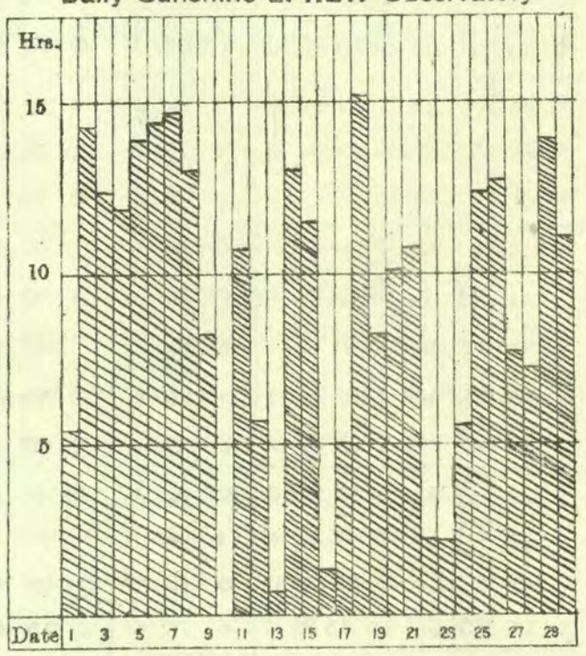
Daily Rainfall at KEW Observatory.



• = Less than 0·5 mm.

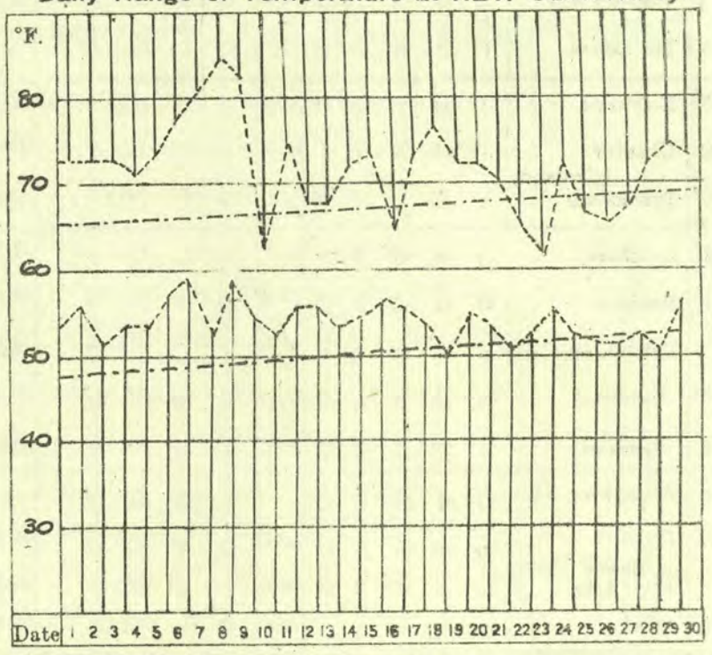
RAINFALL. Total for Month. 31 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 277 hrs.

Daily Range of Temperature at KEW Observatory.



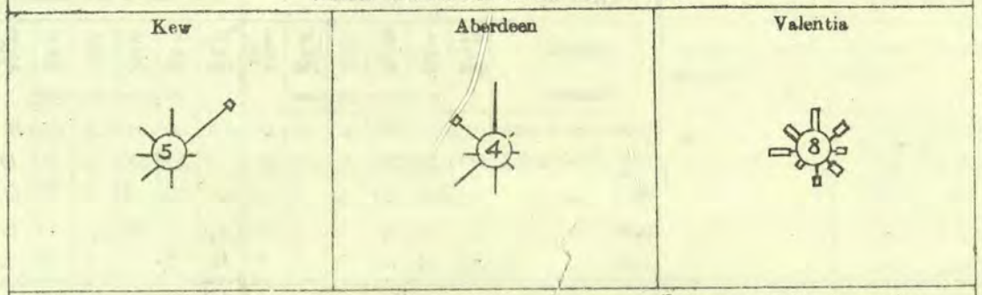
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure: Mean	Pressure: Difference from average	Temperature: Mean	Temperature: Difference from average
	mb.	mb.	°F.	°F.
Kew	1018·5	+1·8	63·3	+3·4
Aberdeen	1017·8	+2·1	56·5	+3·3
Valentia	1019·7	+3·0	60·0	+3·5

*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 ...	5716
Aberdeen ...	4775
Lerwick ...	10219
Valentia ...	8163

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°	87° or above.	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	9	17	4	0	68·0	0	1	29	0	51·9	85	8	62	23	59	7	50	19	0	0	19	0	0	26	0	0	22	0	0	1	1	0	12	0	0	1	0	23
	Croydon ...	0	7	17	6	0	67·4	0	5	25	0	50·3	85	8, 9	65	16	59	29	48	3	0	5	12	1	1	24	1	0	20	1	0	0	0	0	15	0	0	0	0	23
	Calshot** ... (Southampton)	0	8	19	3	0	66·0	0	5	24	1	52·1	80	18	60	23	60	29	48	25	0	2	11	4	0	25	1	0	21	2	0	0	0	0	14	0	0	0	0	26
	Lympne ...	0	12	18	0	0	63·7	0	8	22	0	49·2	77	6, 9	60	16	58	10	43	22	0	8	7	1	1	20	0	0	13	3	0	1	0	0	22	0	0	0	0	27
2	Shoeburyness ...	0	10	18	2	0	66·6	0	5	25	0	49·7	80	11	63	4, 21	59	9	47	28	0	5	8	4	0	18	3	0	11	4	0	0	2	2	16	0	0	0	0	20
	Gorleston ...	2	24	4	0	0	62·6	0	8	21	1	51·1	72	11	54	4	60	9	47	22	0	3	15	0	0	20	0	1	15	0	0	1	1	1	16	0	0	0	0	16
	Cranwell ...	2	4	17	6	1	66·0	0	15	14	1	47·8	91	9	54	23	61	10	45	4, 26, 27	0	5	12	3	4	21	0	1	17	1	0	0	1	0	15	0	0	0	0	25
3	Birmingham ... (Edgbaston)	2	6	18	4	0	64·9	0	4	23	3	49·5	83	8, 9	54	22	61	8, 9	47	26	0	3	11	1	1	24	0	1	23	0	0	0	0	0	10	0	0	0	0	25
4	Ross-on-Wye ...	2	6	17	5	0	67·0	0	9	21	0	49·3	84	8, 9	56	23	57	8	46	14, 30	0	2	14	1	0	27	1	1	23	1	0	0	0	0	21	0	0	0	0	27
5	The Lizard ...	1	25	4	0	0	*	0	1	26	3	*	73	18	59	22	61	7, 19	50	22	*	1	28	0	0	27	0	0	27	1	0	0	1	0	27	0	0	0	0	28
7	Holyhead ...	4	19	7	0	0	59·4	0	3	26	1	51·3	73	9	59	12, 15, 22, 23	62	8	48	14	0	3	13	1	3	17	0	0	20	0	0	0	0	1	26	0	0	0	0	25
8	Chester ... (Sealand)	1	13	9	6	1	65·1	0	12	18	0	48·6	87	9	58	22	57	8	42	21	0	1	17	0	2	22	0	2	18	1	0	1	0	2	9	0	0	0	0	20
10	Tynemouth ...	6	16	7	1	0	59·7	0	6	24	0	49·3	81	8	54	16	59	10	46	27	0	0	25	0	0	29	0	0	24	0	0	0	0	0	9	0	1	0	0	19
11	Leuchars ...	0	15	10	5	0	61·7	1	16	13	0	46·1	84	8	60	22	54	16, 20	41	27	0	4	16	0	0	28	0	1	19	1	0	0	1	2	24	0	0	0	1	24
12	Renfrew ...	0	13	10	7	0	63·0	0	19	11	0	46·6	86	6	61	24, 25, 26	59	20, 29	43	14	0	1	20	0	0	28	0	0	23	1	0	0	1	1	17	0	0	0	0	28
	Eskdalemuir ...	3	13	10	4	0	61·1	5	23	2	0	43·7	81	5	58	22	54	20	33	24	3	4	15	0	1	27	0	2	23	0	0	0	0	0	25	0	0	0	0	29
13B	Stornoway	9	18	3	0	0	57·0	0	16	14	0	46·7	71	9	54	23	57	2	42	27	*	3	26	0	0	29	0	4	26	0	0	1	0	0	26	0	0	0	0	28
15	Aberdeen ..	5	21	4	0	0	59·5	1	18	11	0	46·9	77	5	57	7, 9, 23	55	2	39	27	1	4	19	1	2	25	0	3	23	0	0	1	0	2	20	0	0	0	0	25
18	Aldergrove ...	0	14	13	3	0	*	1	13	16	0	*	81	8	60	22, 26	58	6	37	24	0	3	16	1	0	28	0	0	25	0	0	0	0	0	27	0	0	0	0	29
19	Dublin ... (Phœnix Park)	0	13	13	4	0	63·9	0	20	10	0	46·7	83	8	62	22, 25, 26	57	10	42	24	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birr Castle ...	0	12	10	8	0	64·5	1	16	12	1	48·3	84	8	60	11	60	15	38	24	0	0	15	0	0	27	0	0	26	0	0	0	0	0	30	0	0	0	0	30
20	Valentia ... (Cahirciveen)	0	20	8	2	0	61·6	0	6	23	1	51·4	78	5	60	25	61	20	45	17, 30	0	4	18	0	0	29	0	0	27	1	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	1350	52·6	58·4	60	55·9	60		
850	4860	42·3	48·0	60	45·9	60		
750	8170	33·6	38·3	60	38·1	60		
650	11830	22·9	26·7	60	27·7	60		
550	16110	9·1	13·1	60	13·9	60		

UPPER WINDS.

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

Station Height. Metres.	Lympne. No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Plymouth (Mt. Batten). No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead. No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Renfrew. No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Station. Height. Metres.
		kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.					
500 above ground.	113	51	56	5	0	0	93	50	37	3	0	0	36	20	11	0	0	0	115	82	27	6	0	0	500 above ground.
1000 above M.S.L.	111	50	51	6	0	0	79	37	39	3	0	0	33	18	11	1	0	0	97	53	33	10	1	0	1000 above M.S.L.
2000 " "	82	26	47	5	0	0	44	22	18	3	0	0	21	9	9	3	0	0	60	36	20	3	1	0	2000 " "
3000 " "	51	20	25	3	0	0	27	12	13	2	0	0	19	6	10	2	0	0	35	19	14	2	0	0	3000 " "
4000 " "	35	14	16	3	0	0	16	8	7	1	0	0	13	6	7	0	0	0	17	8	8	1	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 June 1940

District.	Stations.	Sunshine: Number of Days with Duration. Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration. Hours.	Date.	Total for past 12 months. Hours.	Difference from average. Hours.	Total for Month. Hours.	Difference from average. Hours.	Highest and Lowest Totals on record for Month. First year of record.	Highest. Hrs.	Year.	Lowest. Hrs.	Year.	Rainfall: ‡ Number of days with amount. 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hrs. mm.	Date.	Total for past 12 months. mm.	Difference from Average. mm.	Total for Month.‡ mm.	Difference from Average. mm.	Highest and Lowest Totals on record for Month. First year of record.	Highest. mm.	Year.	Lowest. mm.	Year.	Days with Thunder.	Days with Snow or Sleet.
1	London ... (Kew Obsy).	1	4	4	4	17	15·2	18	1534	+65	277	+74	1880	271	1925	105	1909	25	0	3	1	1	0	16	9	704	+98	31	-24	1856	183	1903	1	1925	2	0
	Croydon ...	0	3	7	5	15	15·3	7	1519	-6	263	+58	1922	278	1925	112	1923	26	1	3	0	0	0	4	22	744	+65	8	-46	1921	90	1926	4	1925	1	0
	Calshot** ... (Southampton)	0	4	1	6	19	15·6	5	1761	+15	305	+73	1881	327	1925	112	1909	29	0	0	1	0	0	5	22	769	+123	5	-37	1871	138	1903	0	1925	1	0
	Lympne ...	1	2	2	7	18	15·2	7	1771	+6	306	+79	1921	293	1925	141	1923	25	2	2	1	0	0	11	13	847	+123	15	-34	1920	113	1927	1	1921	2	0
2	Shoeburyness ...	0	4	5	6	14	15·4	3	1623	-93	254†	+28	1919	273	1925	154	1923	26	1	2	0	0	0	4	16	588	+85	7†	-38	1920	70	1937	5	1921	1	0
	Gorleston ...	2	5	3	4	16	15·4	6	*	*	252	+43	1908	247	1918	148	1916	24	2	3	1	0	0	5	15	629	+7	13	-32	1871	116	1927	5	1932	3	0
	Cranwell ...	3	1	3	6	17	15·8	7	1472	-66	280	+79	1921	239	1925	148	1923	20	8	0	2	0	0	11	22	606	+16	21	-22	1917	81	1936	3	1925	1	0
3	Birmingham ... (Edgbaston)	2	3	1	7	17	15·1	5	1273	-31	280	+101	1887	276	1887	95	1923	23	2	4	1	0	0	7	22	818	+144	17	-42	1893	125	1912	9	1925	3	0
4	Ross-on-Wye ...	1	4	2	6	17	15·4	4 5	1470	-15	280	+73	1915	318	1925	135	1916	23	3	3	1	0	0	8	22	707	-10	16	-39	1859	143	1860	0	1925	1	0
5	Falmouth ... (Observatory)	1	3	3	4	19	15·4	8	1729	+19	296	+69	1881	375	1925	121	1907	21	2	5	1	1	0	15	22	1076	-31	35	-24	1871	190	1879	0	1925	0	0
7	Holyhead ...	0	2	6	2	20	15·7	14	1561	+11	311	+95	1914	301	1925	150	1931	22	4	3	1	0	0	6	29	883	-4	19	-36	1871	127	1936	1	1925	0	0
8	Chester ... (Sealand)	0	4	5	1	20	15·5	13	1455	+79	292	+97	1928	287	1925	131	1923	22	1	5	2	0	0	10	21	748	+110	28	-24	1922	128	1931	1	1925	1	0
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*	*	*	*	22	5	1	2	0	0	13	21	664	+43	22	-28	1915	100	1927	3	1925	1	0
11	Leuchars ...	0	7	2	4	17	16·2	14	1384	-86	264	+61	1922	243	1880 1933	137	1935	25	3	2	0	0	0	3	22	603	-50	7	-35	1922	115	1931	16	1925	0	0
12	Renfrew ...	1	2	6	8	13	14·5	6	1138	-55	254	+79	1921	258	1925	105	1931	23	2	3	2	0	0	5	25	826	-113	20	-36	1921	129	1928	10	1925	1	0
	Eskdalemuir ...	0	4	2	9	15	14·6	5 7	1252	+51	271	+96	1910	261	1925	83	1912	21	4	3	2	0	0	13	15	1211	-218	39	-41	1910	260	1931	23	1921	1	0
13B	Stornoway	2	14	7	3	4	13·0	6	1187	-28	119	-48	1881	260	1905	94	1923	15	4	9	2	0	0	6	24	948	-318	43	-16	1870	140	1872	11	1897	0	0
15	Aberdeen ...	0	3	4	4	19	15·8	14	1313	-16	279	+38	1881	274	1936	82	1912	23	4	2	1	0	0	7	9	666	-82	15	-28	1871	118	1916	12	1891	2	0
18	Aldergrove ...	0	2	5	7	16	15·6	5	1252	*	279	*	1927	252	1939	123	1938	22	2	3	3	0	0	11	21	962	+124	40	-21	1926	116	1938	48	1939	2	0
19	Dublin ... (Phœnix Park)	0	7	1	5	17	14·5	5	1209	-228	256	+74	1881	288	1887	110	1924	22	1	5	2	0	0	5	28	759	+57	22	-28	1865	137	1878	3	1889	1	0
	Birr Castle ...	0	4	3	7	16	15·2	8	1289	-17	280	+120	1881	263	1887	104	1937	19	3	7	1	0	0	7	28	780	-47	27	-32	1862	131	1878	9	1887	1	0
20	Valentia ... (Cahirciveen)	0	4	4	5	17	15·1	19	1587	+219	286	+113	1880	295	1887	91	1924	20	3	4	2	0	1	26	28	1330	-84	54	-27	1866	207	1935	3	1921	0	0

† Total for 29 days only. No record for 22nd June.

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	2	0	0	4	9	12	3	0
Ross-on-Wye ...	0	0	1	2	2	5	9	9	2	0
Falmouth (Obsy.)										
Renfrew ...	0	0	0	0	2	5	17	5	1	0
Eskdalemuir ...	0	0	0	1	2	6	10	10	1	0
Aberdeen ...	0	1	1	2	8	10	5	3	0	0
Valentia ...	0	0	1	6	10	8	5	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)	16	14	0	0	0	0	0	0	0	0
Ross-on-Wye	27	3	0	0	0	0	0	0	0	0
Renfrew ...	24	6	0	0	0	0	0	0	0	0
Eskdalemuir	22	8	0	0	0	0	0	0	0	0
Aberdeen ...	28	2	0	0	0	0	0	0	0	0
Valentia ...	26	4	0	0	0	0	0	0	0	0

CODE for State of Ground.

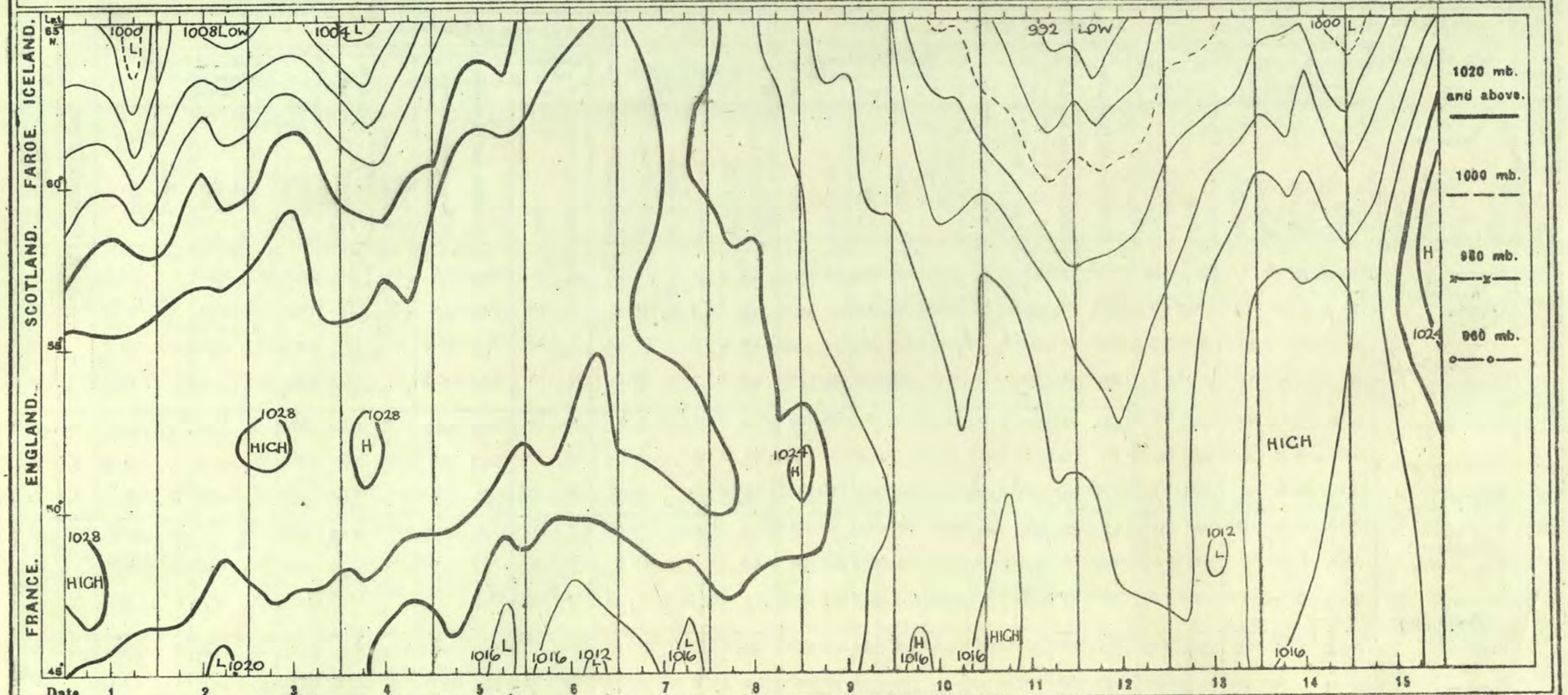
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry.
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow, greater than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

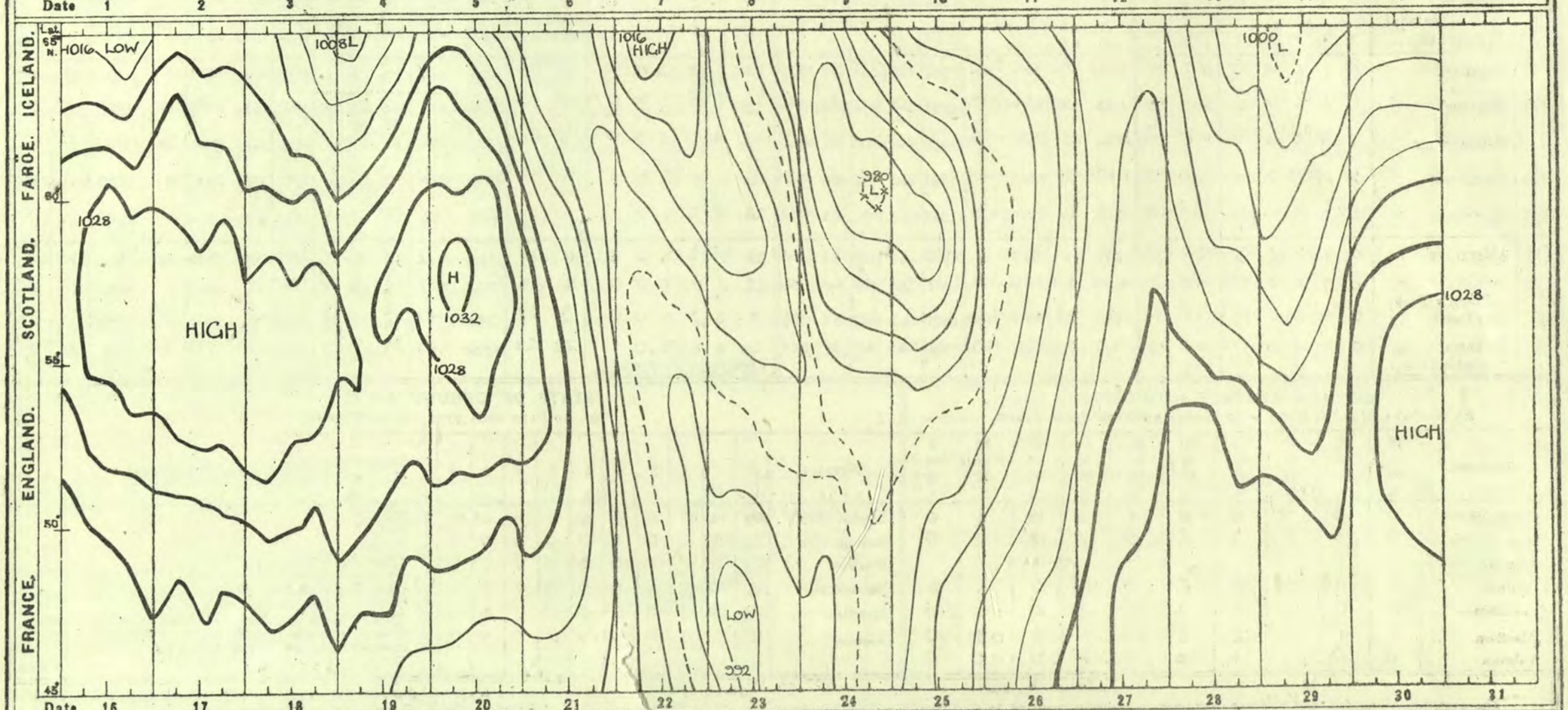
**The extremes of rainfall and sunshine from Calshot are supplemented by those from Southampton.

‡ 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 June 1940

ISOPLETHS BASED ON SIX-HOURLY OBSERVATIONS.





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

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

6.27/3963. Wt.8049. D.3702. 6p.948. 570. 7/40

DUPLICATE SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 1st. June, 1940.

No. 28681.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1026·2	-4	N'W	2	c	65	55	7	2	-	2	7-8	9+	2500
	Croydon	1025·5	-2	NNW	2	c	65	55	8	2	-	8	4-6	7-8	4000
	S. Farnborough	1026·5	0	NNW	3	c	64	55	8	1	4	6	4-6	7-8	4000
	Boscombe Down	1027·0	-2	NW'N	4	c	63	45	8	1	3	8	1	9	4000
	Calshot (Soton.)	1026·4	-2	NNW	4	c	66	45	8	5	3	1	4-6	9	7200
	Lympne	1025·7	+10	N'E	2	c	62	65	8	1	-	2	7-8	9	4000
	Manston	1025·6	+4	N	1	c	62	65	7	2	3	2	2-3	9	1500
2	Shoeburyness	1026·1	0	NNW	2	bc	65	55	8	2	-	2	4-6	4-6	4000
	Felixstowe	1025·6	+8	E	3	c	61	65	8	1	-	6	7-8	9	4000
	Gorleston	1025·5	+14	N'W	4	c	57	65	7	5	5	-	4-6	7-8	2500
	Mildenhall	1025·7	+2	NW'N	2	c	62	55	8	7	-	4	7-8	9	2500
	Cranwell	1025·3	-6	W	1	bc	66	45	7	2	-	2	2-3	4-6	4000
3	Birmingham	1026·3	0	NW	3	bc	62	45	8	5	4	6	tr	4-6	4000
	Upper Heyford	1026·6	0	NW'W	3	zo	64	55	6	2	3	6	4-6	7-8	4000
4	Ross-on-Wye	1026·1	-6	W'N	3	c	65	55	8	7	7	-	7-8	9+	4000
5	Hartland Point	1028·9	+4	W	2	c	60	85	8	2	3	-	2-3	9+	2500
	Bristol	1027·5	-2	W	4	c	65	65	8	7	7	-	4-6	9	2500
	Portland Bill	1027·5	+4	WNW	3	c	58	85	8	4	4	-	4-6	7-8	4000
	Plymouth	1028·4	-2	SW	4	·c	61	75	8	8	7	1	4-6	9	4000
	The Lizard	1029·5	+4	WNW	3	bc	61	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1029·8	+4	WNW	3	bc	63	75	8	5	7	3	2-3	4-6	2500
	Guernsey	1028·0	0	NNW	2	c	63	55	8	5	7	-	4-6	7-8	2500
6	Pembroke	1028·6	+8	WNW	4	roro	56	75	7	5	6	-	7-8	9+	2500
7	Holyhead	1027·0	-2	SW	3	c	57	75	8	5	2	-	9	10	4000
	Chester (Sealand)	1026·5	-8	NNW	3	c	62	65	9	7	1	-	7-8	9+	4000
8	Manchester	1026·3	+2	W	4	c	62	55	8	1	3	6	1	9+	4000
10	Spurn Head	1025·4	+6	E'N	2	bc	58	65	7	1	-	1	2-3	4-6	1500
	Catterick	1024·4	-8	WNW	2	c	64	45	9	1	6	8	4-6	7-8	4000
	Tynemouth	1023·9	-2	SSE	2	c	55	75	7	8	-	-	9	9	2500
11	St. Abbs Head	1023·5	-4	-	0	c	57	66	8	2	2	-	2-3	10	1500
	Leuchars	1022·8	-8	W	2	c	61	55	7	8	7	-	4-6	10	2500
12	Renfrew (Abbots I.)	1024·5	-2	SW'W	3	iro	56	66	8	5	7	-	1	10	2500
	Eskdalemuir	1024·4	-2	SW'W	4	c	56	65	8	8	-	-	10	10	2500
	Point of Ayre	1026·3	0	W'N	5	c	60	65	8	8	2	-	1	10	2500
13A	Tiree	1020·7	-8	S	5	roro	52	97	6	-	2	-	10	10	450
13B	Stornoway	1019·2	-16	S	6	roro	52	92	6	5	2	-	9	10	1500
15	Dalwhinnie	1023·5	0	S	2	iro	51	85	7	5	1	-	2-3	10	2500
	Aberdeen	1022·4	-6	SSW	3	c	58	55	8	7	3	7	1	9	4000
	Wick	1021·0	-8	S	3	c	53	85	8	8	7	8	4-6	9+	1500
16	Lerwick	1021·0	0	WSW	3	c	53	75	8	5	5	8	4-6	7-8	1500
17	Blacksod Point	1024·2	+12	SW	3	c	59	92	7	5	-	-	10	10	<150
18	Malin Head	1022·1	-4	S	3	c	56	92	7	9	-	-	9+	9+	2500
	Aldergrove	1024·7	-2	SSW	3	roro	54	97	6	6	2	-	7-8	10	800
19	Birr Castle	1016·2	-4	S'W	2	o/d	57	85	7	5	-	-	10	10	2500
20	Valentia Obsy. †	1028·1	+6	SW'S	3	c	60	92	8	5	-	-	10	10	800
	Roches Point	1027·8	0	SSW	2	c	59	85	8	5	-	-	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 31st. May — **PAST 24 HOURS.**

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 31st. (37)	Weather 13h.–18h. 31st. (38)	Weather 18h. 31st.–1h. 1st. (39)	Weather 1h.–7h. 1st. (40)
London (Kew)	1026·0	0	NW'N	2	c	67	35	8	1	5	2	2-3	7-8	2500	0	*	cmocy	cy	cyc	c
Croydon	1025·6	0	WNW	2	bc	68	45	7	4	4	1	2-3	2-3	4000	0	*	cmobcczocy	cybcy	bcycbc	bcwc
S. Farnborough	1026·0	-2	NW'W	3	·c	66	45	8	1	5	6	2-3	9+	4000	0	*	bccy⊕	cy	cb	b,c
Boscombe Down	1026·7	+2	W'N	3	c	63	55	8	8	7	2	2-3	7-8	5700	0	*	cy	cy	cbc	bccmo
Calshot (Soton.)	1026·3	+2	NW'W	4	c	66	55	8	1	3	2	tr	7-8	5700	0	1	bccy⊕	bccbcy	bcybc	bcbcmo
Lympne	1026·6	+8	ESE	2	c	54	75	8	1	-	-	7-8	7-8	5700	0	§ 1	bccbc	c	bccbc	bccbc
Manston	1026·6	+8	SE	2	c	57	65	7	2	3	-	2-3	7-8	1500	0	*	cmoc	cbcy	cmobcmo	bcmocmo
Shoeburyness	1026·0	+2	E'S	4	bc	58	75	8	2	3	-	4-6	4-6	5700	1	*	cmobcy	bcy	bccmo	cmo
Felixstowe	1026·0	+2	SSE	2	c	57	65	8	7	3	-	1	9	4000	0	1	cmocy	cybcc	hdbccmo	cmoc
Gorleston	1025·5	-2	NE'E	2	c	56	75	7	5	3	-	4-6	7-8	2500	1	2	cbcc	cbcc	c	czo
Mildenhall	1024·7	-2	W'S	3	c	67	45	7	7	7	-	4-6	7-8	4000	0	*	cy	cy	cybccmo	cmobczo
Cranwell	1024·8	+4	WNW	4	c	64	45	7	5	3	-	1	9+	5700	0	*	zocbcy	bczocy	cybczocmo	cmo
Birmingham	1025·6	-2	WNW	3	c	62	55	8	5	7	6	2-3	9+	2500	1	*	cbc	bcc	c	cpro
Upper Heyford	1026·0	0	W	3	bc	64	55	8	7	7	6	2-3	4-6	4000	1	*	czo	cbc	c	cmoc
Ross-on-Wye	1026·6	+4	NW'W	3	c	61	75	8	5	7	-	4-6	10	4000	0	*	cbcc	cyc	cc	cc
Hartland Point	1028·4	-2	WNW	3	c	58	75	8	5	7	-	2-3	7-8	2500	0	2	bcc	cpbcc	co	FFe
Bristol	1027·2	-2	W	4	c	60	55	8	-	7	8	0	7-8	-	0	*	cbcy	crocbcy	bcycbcc	cmoc
Portland Bill	1027·6	+2	NW	2	c	58	85	8	2	4	-	7-8	10	4000	1	3	bcc	c	cc	cc
Plymouth	1028·3	0	NNW	4	c	62	55	9	-	4	4	0	9+	-	0	2	bcc	ccyv	cyvbcc	cmo
The Lizard	1029·2	-2	W'N	2	c	59	85	8	8	6	-	7-8	7-8	2500	0	1	bc	bcc	bcc	cidfs
Scilly (St. Mary's)	1029·4	-4	W'N	3	c	60	85	8	8	4	3	2-3	7-8	2500	0	0	cbc	bcc	cbccl	cl
Guernsey	1028·0	-2	WNW	3	c	60	65	8	-	7	8	0	7-8	-	0	3	bcc	cbc	cbcb	bcc
Pembroke	1027·2	-4	SW'W	2	c	57	85	8	5	2	-	7-8	9+	2500	1	2	cpro	cv	ofFe	Fe
Holyhead	1026·2	-2	SSW	4	dodo	52	97	6	6	2	-	4-6	10	1500	1	2	ciroc	rododomoc	domwbc	bcmoroc
Chester (Sealand)	1026·3	-2	NW	2	iro	58	65	8	5	2	-	7-8	10	2500	0	*	c	ciro	cmododo	cmoc
Manchester	1027·0	+8	WNW	3	c	59	65	8	5	7	-	4-6	9+	4000	0	*	cmocy	cyciroc	cmododo	dodofmo
Spurn Head	1024·9	-4	SE'E	2	c	57	75	7	4	-	-	9+	9+	1500	0	2	c	c	c	c
Catterick	1024·7	+2	WNW	3	iro	57	55	8	5	7	-	4-6	9+	4000	0	*	cbccy	cyiro	iroybc	bcc
Tynemouth	1024·1	+4	W	3	c/pro	58	65	7	5	-	-	9+	9+	2500	0	1	bcc	cpo	cpoc	c
St. Abbs Head	1023·2	-6	SW	2	roro	55	85	8	5	2	-	7-8	10	2500	1	1	c	crr	crr	rrc
Leuchars	1022·6	-2	SW	3	roro	54	85	6	5	-	-	10	10	1500	1	*	bccy	cycroromo	croromociro	ciromrc
Renfrew (Abbots I.)	1023·0	-14	SW	3	iro	55	92	6	6	-	-	10	10	800	1	*	ciro	criromo	cmoiromo	
Eskdalemuir	1024·1	-6	SW'W	4	c	52	85	8	5	-	-	10	10	1500	1	*	bcc	ciroc	coido	idoc
Point of Ayre	1024·8	-10	W	4	iro	56	85	8	4	7	-	1	10	2500	0	2	c	ciro	cc	c
Tiree	1021·0	+8	WSW	4	c	56	97	6	5	-	-	9+	9+	800	1	3	odrr	odmo	om	odrm
Stornoway	1018·2	-4	SW	3	c/pr	57	92	7	5	7	-	7-8	9+	2500	1	2	cPR	cPR	croro	crr
Dalwhinnie	1021·7	-8	SW	5	c	51	92	7	6	1	-	4-6	10	2500	1	*	cir	crr		cir
Aberdeen	1021·2	-4	SW'W	3	rr	55	85	7	6	2	-	7-8	10	2500	1	1	procy	cror	ciro	crcro
Wick	1020·0	-6	S	1	roro	51	97	7	5	2	-	9	10	1500	1	1	cbcc	croro	roroc	cdoro
Lerwick	1021·4	-2	SW	3	c	53	75	8	5	7	-	4-6	9+	1500	0	*	c	c	ciro	ciropr
Blacksod Point	1024·7	+4	SW	3	ido	57	92	7	6	-	-	10	10	<150	1	3	o	id	c	c
Malin Head	1022·7	+6	W	4	c	57	97	7	9	-	-	9+	9+	2500	0	2	cpocorrc	c	cidcc	c
Aldergrove	1024·1	-2	SW'S	2	c/d	57	97	6	6	-	-	10	10	450	1	*	iromorrc	rrdoroido	cbc	bcc
Birr Castle	1026·0	0	W	2	c	62	85	8	5	1	-	7-8	9	1500	1	*	oid	c	c	c
Valentia Obsy. †	1028·1	-2	SW	3	o/d	59	97	5	5	-	-	10	10	220	0	1	comoc	cidomo	ofdomdmo	omoidoc
Roches Point	1027·2	-2	W	4	c	61	85	8	5	-	5	4-6	7-8	2500	0	3	c	c	cbcw	

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

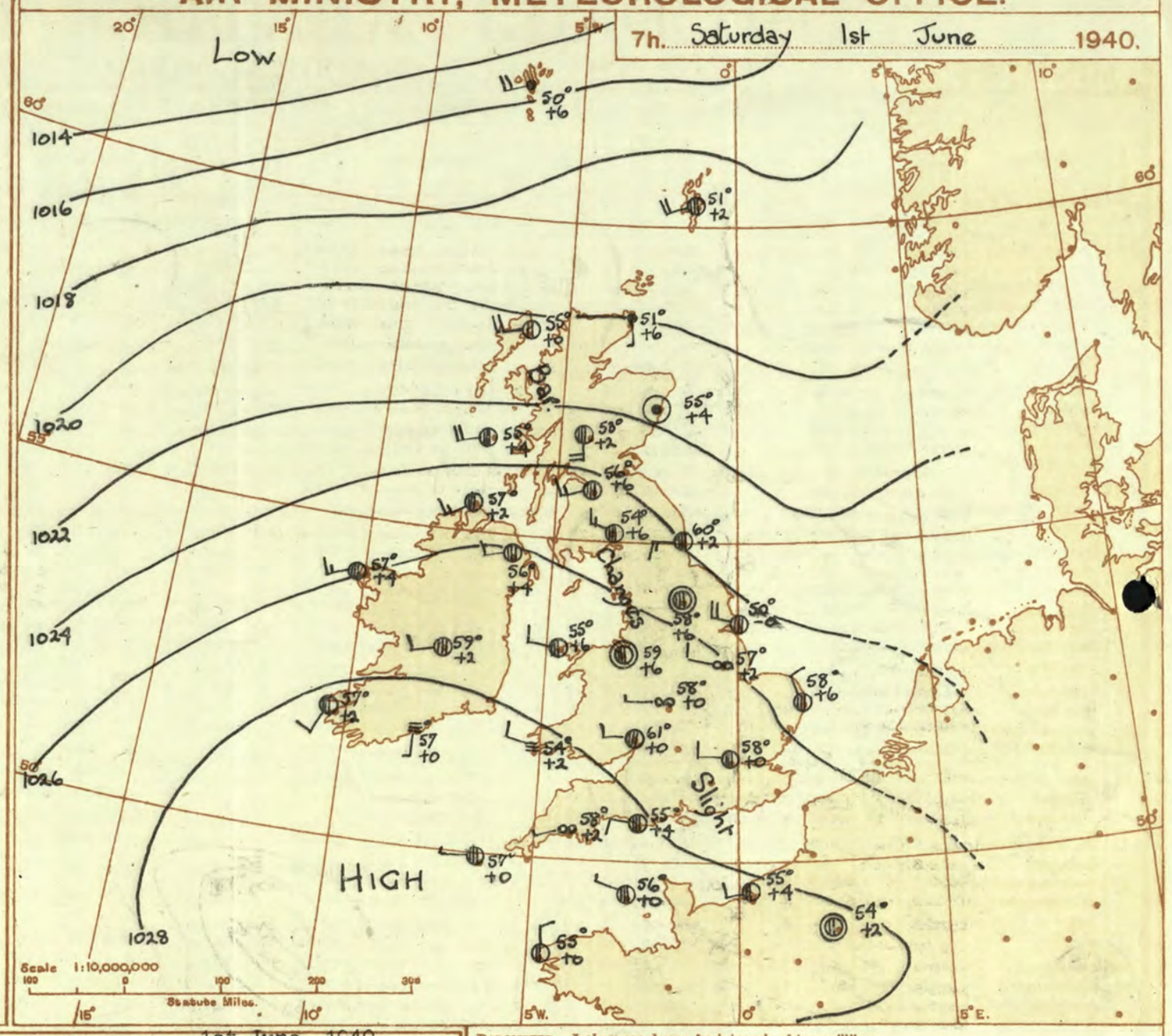
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 1st June 1940.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 1st June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate west to northwest wind; fair, but with considerable cloud especially in early morning; rather warm.
5 S.W. England 6 South Wales ... 7 North Wales ...	Light or moderate west wind; mainly cloudy; coastal fog; bright periods inland; rather warm inland.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1 - 4.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate west to southwest wind; mainly cloudy; occasional slight rain or drizzle; bright periods in East; average temperature or rather warm.
17 N. W. Ireland 18 N. E. Ireland	Light or moderate southwest wind; mainly cloudy, some bright periods inland; average temperature or rather warm.
19 S E. Ireland 20 S. W. Ireland	Light or moderate southwest wind; mainly cloudy; local coast fog and drizzle, bright periods in the East; average temperature or rather warm.

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 off Southwest England and pressure is low to north of Iceland. A depression north of the Azores will move northeast. There will be occasional rain or drizzle in Scotland but elsewhere weather will be fair although with considerable cloud. It will be rather warm in most districts.

FURTHER OUTLOOK.

Fair in the South; occasional rain in the North.

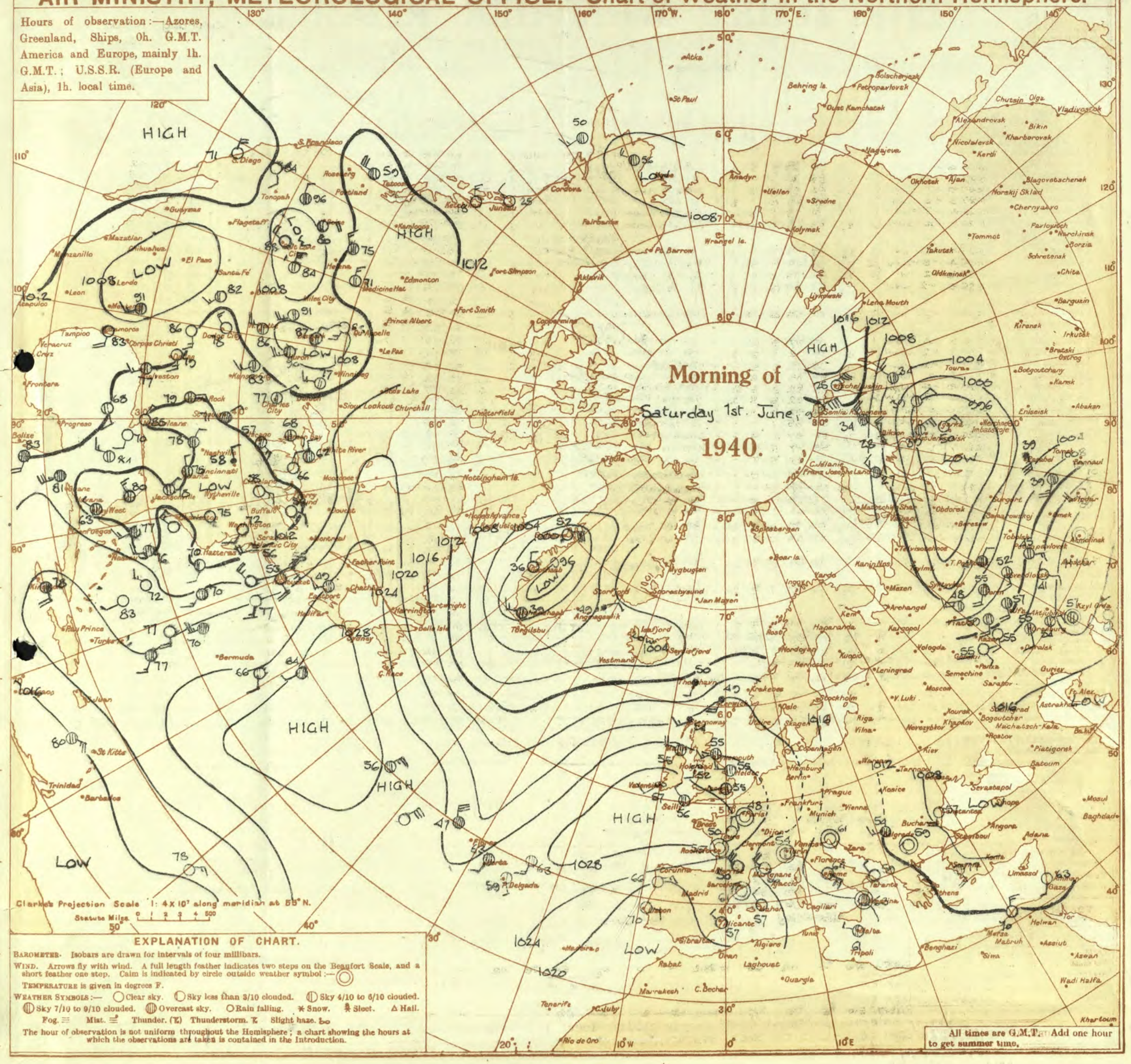
Forecasts issued at 1000 G.M.T.

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.

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 1st. June 1940.

No. 28681

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

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	1026.6	+2	W'S	1	bc	55	85	7	5	-	-	2-3	2-3	5700
	S. Farnborough	226	1027.2	-2	W	2	bc	53	85	7	-	3	-	0	2-3	-
	Boscombe Down	417	1027.9	+2	NW'W	2	bc	54	92	7	5	-	-	4-6	4-6	4000
	Calshot (Sthmtn.)	8	1027.3	+2	W'S	2	z_0	53	85	6	-	3	-	0	4-6	-
	Lympne ...	346	1026.8	-2	SW'W	1	bc	51	75	7	5	-	-	2-3	2-3	4000
	Manston ...	154	1026.3	-4	SW'S	2	z_0	53	65	6	5	-	-	4-6	4-6	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1025.9	+6	W	2	z_0	57	75	6	-	2	-	0	9+	-
	Gorleston ...	5	1025.4	-8	SWW	2	c	54	85	7	5	-	-	10	10	2500
	Mildenhall ...	19	1025.6	-2	W	2	z_0	56	85	6	5	-	-	10	10	5700
	Cranwell ...	240	1025.9	-2	WNW	1	z_0	54	85	6	5	-	-	10	10	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026.9	-2	W	2	z_0	54	89	6	5	7	-	4-6	7-8	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1028.9	+4	NE	1	o	65	97	5	5	-	-	10	10	800
	Bristol ...	209	1028.2	+2	WSW	3	c	55	92	7	5	2	-	9	10	1500
	Portland Bill ...	32	1027.7	-2	WNW	3	c	55	92	8	5	-	-	7-8	7-8	4000
	Plymouth ...	82	1029.3	0	WNW	3	c	58	85	8	5	-	-	9+	9+	1500
	The Lizard ...	240	1029.9	-4	WNW	3	c	55	92	8	8	2	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	1030.0	-2	NW'W	2	c	56	92	8	5	2	-	7-8	9+	1500
	Guernsey ...	175	1028.6	0	NW'W	1	bc	54	92	8	-	1	-	0	2.3	-
6	Pembroke ...	142	1028.1	0	WNW	2	F	54	85	1	-	-	-	10	10	<150
7	Holyhead ...	26	1026.6	+2	SW'S	2	z_0	52	97	6	5	-	-	4-6	4-6	2500
	Chester (Sealand)	16	1026.7	-2	SE	1	c/d	55	97	6	5	2	-	4-6	10	800
8	Manchester ...	70	1026.4	-4	S	2	d_0d_0	54	97	5	5	-	-	10	10	1300
10	Spurn Head ...	29	1025.6	0	W	3	c	56	85	6	5	-	-	4-6	4-6	1500
	Catterick ...	175	1025.1	-2	SW'S	1	bc	53	92	8	5	7	-	4-6	4-6	5700
	Tynemouth ...	108	1023.8	-2	WSW	3	c	55	85	6	5	-	-	9+	9+	1500
11	St. Abbs Head	280	1021.7	-10	W	4	r_0r_0	56	85	7	5	6	-	7-8	9	2500
	Leuchars ...	36	1021.9	0	W	3	ir_0	55	92	6	5	2	-	9+	10	800
12	Renfrew (Abbots I.)	19	1024.3	+6	W'N	2	z_0	57	85	6	5	2	-	9	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1025.6	0	W'N	3	c	56	97	7	5	1	-	9	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1019.6	+2	WSW	3	r_0r_0	54	97	7	5	2	-	4-6	10	1500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1019.6	+2	SSE	1	c	51	97	7	5	7	1	4-6	10	2500
16	Lerwick ...	156	1020.4	-12	S'W	4	ir_0	49	97	6	5	2	-	7-8	10	450
17	Blacksod Point	18	1025.7	+2	SW	4	c	56	92	7	5	-	-	9	9	<150
18	Malin Head ...	84	1024.2	+4	W	4	c	55	85	8	6	-	-	7-8	7-8	5700
	Aldergrove ...	268	1025.7	+4	WSW	1	bc	56	97	7	5	1	-	4-6	4-6	1500
19	Birr Castle ...	173	1027.5	+6	W	1	c	57	92	8	5	1	>	7-8	10	1500
20	Valentia Obsy.	30	1028.8	0	SW	2	z_0	57	97	6	5	÷	-	10	10	<150
	Roches Point	22	1028.5	0	W'S	3	bc	56	97	8	5	-	-	4-6	4-6	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1027.3	+4	NNW	2	c	59	75	7	5	-	-	9+	9+	2500	0	*
Croydon	1026.8	0	W'N	2	c	58	85	7	5	3	2	7-8	7-8	4000	0	*
S. Farnborough	1027.5	+2	NW'W	2	c	57	85	8	5	-	-	9+	10	4000	0	*
Boscombe Down	1028.1	+6	NW'W	2	z_0	57	92	6	8	3	-	7-8	7-8	1500	0	*
Calshot (Sthmtn.)	1027.4	+2	NNW	3	z_0	58	85	6	7	3	1	2-3	4-6	4000	0	1
Lympne	1026.7	+2	NNW	2	bc	56	85	8	-	3	-	0	7-8	-	0	§ 1
Manston	1026.5	+4	WNW	3	z_0	59	75	6	5	3	-	2-3	9+	5700	0	*
Shoeburyness	1026.9	+6	W'N	1	c	59	85	6	-	3	-	0	7-8	-	1	*
Felixstowe	1026.3	+2	NW	2	c	58	75	7	5	5	-	9	9+	4000	1	1
Gorleston	1025.8	+6	NNW	2	c	58	75	6	5	-	-	9+	9+	2500	0	2
Mildenhall	1026.1	+2	WNW	2	z_0	59	75	6	-	7	2	0	4-6	-	0	*
Cranwell	1026.0	+2	W'N	2	z_0	57	85	6	5	7	-	7-8	9	2500	0	*
Birmingham	1026.9	0	W	1	z_0	58	85	5	5	-	-	10	10	1500	1	*
Upper Heyford	1027.4	+8	WNW	2	c	59	85	8	5	-	-	9+	9+	1500	1	*
Ross-on-Wye	1027.1	0	W	2	c	61	85	8	5	-	2	4-6	7-8	4000	0	*
Hartland Point	1028.5		W	2	F	56	97	1	-	-	-	10	10	<150	1	2
Bristol	1028.1	-2	WNW	2	c	59	92	7	5	3	1	7-8	9	2500	0	*
Portland Bill	1017.8	+4	WNW	2	c	55	85	8	2	-	-	7-8	7-8	4000	0	3
Plymouth	1028.8	+2	WSW	1	z_0	58	92	6	5	-	-	10	10	800	0	1
The Lizard	1029.6	0	—	0	dF	56	97	3	5	-	-	10	10	800	1	1
Scilly (St. Mary's)	1029.3	0	W	1	c	57	97	8	5	-	-	9+	9+	2500	0	1
Guernsey	1028.6	0	NW'W	1	c	56	92	7	5	2	-	9	10	2500	0	3
Pembroke	1028.0	+2	NW'W	2	F	54	97	1	-	-	-	10	10	<150	1	2
Holyhead	1027.1	+6	WNW	2	c	55	92	8	5	-	-	10	10	2500	1	2
Chester (Sealand)	1026.9	+6			c	59	85	7	7	-	-	9+		1500	1	*
Manchester	1026.5	+6	W'S	3	z_0	58	97	6	5	-	-	9+	10	800	1	*
Spurn Head	1024.9	0	W'N	4	c	50	85	6	7	-	-	9+	9+	1500	0	3
Catterick	1025.3	+6	—	0	c	58	85	8	5	7	-	7-8	9+	2500	0	*
Tynemouth	1023.6	+2	W	3	c	60	75	6	8	-	1	4-6	7-8	2500	0	1
St. Abbs Head	1022.4	+4	W	4	c	56	65	8	5	6	4	4-6	9	2500	1	2
Leuchars	1022.6	+4	WSW	2	c/r	57	85	8	5	1	-	4-6	9+	1500	1	*
Renfrew (Abbots I.)	1024.3	+6	WSW	3	c	56	85	8	5	7	-	9+	10	1500	1	*
Eskdalemuir	1024.8	+6	WNW	3	c	54	85	8	5	3	-	9+	9+	1500	1	*
Point of Ayre	1026.4	+4	NW	3	c	56	92	8	5	6	-	9	9+	1500	0	2
Tiree	1022.3	+4	WSW	4	o	55	97	4	5	-	-	10	10	450	1	3
Stornoway	1020.0	0	WSW	4	/pr	55	97	7	5	2	-	9+	10	800	1	2
Dalwhirnie	*	+2	S	4	c	53	85	7	4	7	-	2-3	10	2500	1	*
Aberdeen	1021.8	+4	—	0	r_0r_0	55	92	6	5	-	-	10	10	4000	1	1
Wick	1020.3	+6	S	1	r_0r_0	51	97	7	5	2	-	7-8	10	1500	1	1
Lerwick	1019.1	+2	WSW	4	c	51	92	8	8	7	-	7-8	9	800	1	*
Blacksod Point	1025.8	+4	WSW	3	c	57	85	8	5	-	-	10	10	800	0	2
Malin Head	1024.2	+2	SW	3	c	57	85	8	9	-	-	7-8	7-8	5700	0	2
Aldergrove	1026.1	+4	WSW	2	c	56	85	8	5	4	-	9	9+	2500	1	*
Birr Castle	1027.5	+2	WSW	2	c	59	85	8	5	7	-	7-8	10	2500	1	*
Valentia Obsy.	1028.2	+2	SSW	2	c	57	97	8	5	-	-	9+	9+	2500	1	1
Roches Point	1028.0	0	S	1	m	57	97	4	5	-	-	9+	9+	450	0	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 31st. Hrs. (36)
London (Kew)	67	54	46	-	-	9.7
Croydon	67	51	42	-	-	8.0
S. Farnborough	68	50	45	·	-	10.7
Boscombe Down	66	51	48	-	-	5.0
Calshot (Sthmtn.)	68	51	46	-	-	10.5
Lympne	68	51	41	-	-	9.4
Manston	65	52	48	-	-	7.6
Shoeburyness	69	54	45	-	-	9.5
Felixstowe	66	54	53	·	-	7.7
Gorleston	62	53	50	-	-	*
Mildenhall	68	55	54	-	-	7.7
Cranwell	68	53	51	-	-	5.6
Birmingham	65	53	51	*	0.1	3.4
Upper Heyford	68	53	51	-	Tr	*
Ross-on-Wye	67	55	53	-	-	4.3
Hartland Point	61	55	55	Tr	-	7.2
Bristol	65	55	51	Tr	-	7.4
Portland Bill	60	55	*	-	-	*
Plymouth	66	56	54	-	-	9.9
The Lizard	62	54	*	-	0.1	10.3
Scilly (St. Mary's)	63	55	*	-	-	9.7
Guernsey	64	53	48	-	-	10.7
Pembroke	57	53	*	Tr	Tr	0.5
Holyhead	58	52	51	1	0.1	0.6
Chester (Sealand)	64	55	43	Tr	0.1	2.4
Manchester	65	53	53	Tr	1	5.2
Spurn Head	64	53	*	-	-	6.5
Catterick	66	52	46	Tr	Tr	6.3
Tynemouth	62	55	51	Tr	Tr	*
St. Abbs Head	57	51	*	-	2	*
Leuchars	65	53	53	1	3	5.2
Renfrew (Abbots I.)	59	54	50	1	Tr	1.1
Eskdalemuir	58	49	49	0.2	0.2	4.3
Point of Ayre	64	55	*	0.3	Tr	1.9
Tiree	57	53	*	3	0.4	0.0
Stornoway			*	5	2	
Dalwhirnie	57	50	49	3	0.2	3.4
Aberdeen	61	52	47	1	2	5.9
Wick	58	49	*	1	1	*
Lerwick	55	48	*	-	0.2	9.2
Blacksod Point	60	54	*	2	0.1	*
Malin Head	59	51	*	4	0.1	0.0
Aldergrove	57	54	52	6	-	0.0
Birr Castle	64	56	54	0.4	-	0.2
Valentia Obsy.	60	56	56	Tr	0.3	0.0
Roches Point	64	56	*	0.3	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew ...	18	cmocy	cy	cyf	67	54	46	-	-	9.7	*	*	7
Croydon ...	217	cmbcz₀cy	cybcy	bcycbcw	67	51	42	-	-	8.0	*	*	7
Greenwich (Royal Observatory) ...	149	cy	bcy	cbc	68	52	42	-	-	6.6	41	70	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	70	55	47	-	-	7.9	54	75	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	68	54	52	-	-		37	77	*
Camden Square ...	110	bc	bc	*	71	55	49	-	-	*	*	71	*
Kensington ...	80	bc	bc	*	69	54	45	-	-		48	74	*
Hampstead Observatory ...	460	bc	bc	bc	69	52	48	-	-		*	85	

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0.1	8-9h 31st	<0.1	10-19h 31st

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 31st. May Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 1st. June 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 ...	1025.1	NW	4	bc	64	1028.3	—	0	z_0	54	70	48	-	-
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...	1013.7	SW	5	bc	61	1014.2	SE	2	c	66	*	*	-	-

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

EXPLANATION of FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 2nd June 1940.

No 28682

SECRET

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1026·8	−2	SW'W	2	c	68	65	7	5	3	–	4-6	9+	2500
	Croydon	1026·3	−2	WNW	2	c	69	65	7	8	3	–	7-8	7-8	2500
	S. Farnborough	1025·7	−4	NNW	1	c	70	85	8	7	3	6	7-8	9	2500
	Boscombe Down	1026·8	−10	W'N	2	c	70	55	7	5	–	2	9	9+	2500
	Calshot (Soton.)	1027·0	−2	SSW	3	c	68	75	8	7	–	6	4-6	7-8	4000
	Lympne	1026·4	−2	SW'W	2	c	66	75	7	5	–	–	9+	9+	2500
	Manston	1026·2	−6	NW	2	zo	69	65	6	1	3	–	4-6	7-8	4000
2	Shoeburyness	1026·3	−6	NNW	1	c	69	65	8	8	–	–	9+	9+	450
	Felixstowe	1025·8	−2	WNW	2	c	71	55	7	8	7	–	7-8	9+	4000
	Gorleston	1025·9	+4	S'E	1	c	58	85	6	5	–	–	10	10	2500
	Mildenhall	1025·5	−6	W'N	2	c	69	65	7	7	3	–	9	9+	4000
	Cranwell	1025·7	−2	WNW	3	zo	69	55	6	5	–	–	9+	9+	800
3	Birmingham	1026·2	−2	NW	2	c	66	65	6	5	7	–	4-6	9+	1500
	Upper Heyford	1026·8	−6	WNW	3	c	68	65	8	5	–	6	9	9+	2500
4	Ross-on-Wye	1026·4	−4	SW	1	c	72	65	8	2	–	1	7-8	9	4000
5	Hartland Point	1028·2	−4	WSW	3	cif	58	92	8	8	–	–	7-8	7-8	1500
	Bristol	1027·7	−2	WSW	3	c	67	75	8	7	3	–	7-8	7-8	4000
	Portland Bill	1029·0	−4	WNW	2	c	60	85	8	5	7	–	7-8	10	4000
	Plymouth	1028·6	−6	W	2	c	63	85	7	5	7	–	4-6	9+	1500
	The Lizard	1029·1	−4	–	0	c	62	85	8	8	6	–	7-8	7-8	2500
	Scilly (St. Mary's)	1029·4	0	SW'W	2	ido	60	92	7	8	7	–	7-8	10	1500
	Guernsey	1028·2	−6	NNW	1	c	62	85	7	5	2	–	7-8	10	1500
6	Pembroke	1027·8	−2	NNW	1	c	60	92	7	5	2	–	7-8	9+	1500
7	Holyhead	1027·4	−4	SSW	3	c	58	92	7	5	–	–	10	10	2500
	Chester (Sealand)	1027·2	−6	NW'W	4	c	62	75	8	5	–	–	10	10	1500
8	Manchester	1026·5	−2	WNW	4	c	62	75	8	4	–	–	7-8	10	1500
10	Spurn Head	1024·9	−2	W'N	3	c	66	75	6	8	–	–	7-8	7-8	1500
	Catterick	1024·6	−2	W'S	3	c	71	55	8	7	4	–	4-6	7-8	4000
	Tynemouth	1023·7	+2	NNW	4	c	68	55	8	8	–	–	7-8	7-8	2500
11	St. Abbs Head	1023·3	0	WNW	4	c	60	75	8	8	6	–	4-6	9	2500
	Leuchars	1022·8	−2	W	3	c	65	75	8	5	1	–	4-6	9+	2500
12	Renfrew (Abbots I.)	1025·3	+2	W'S	4	c	62	75	8	5	–	2	9+	9+	1500
	Eskdalemuir	1024·4	0	WNW	3	c	63	65	8	8	4	–	4-6	7-8	2500
	Point of Ayre	1026·6	+2	NW'W	2	bc	66	55	8	7	4	6	1	4-6	4000
13A	Tiree	1023·6	+4	WSW	4	c/d	56	*	6	5	–	–	9+	9+	800
13B	Stornoway	1020·9	+2	SSW	4	c	58	85	7	5	7	–	9+	10	1500
15	Dalwhinnie														
	Aberdeen	1021·8	−2	W'N	2	c	67	65	8	1	7	–	2-3	9	2500
	Wick	1020·5	0	WSW	2	c	64	75	8	8	7	8	7-8	9+	1500
16	Lerwick	1019·6	+8	SW'W	4	c	54	85	8	8	7	–	7-8	9	1500
17	Blacksod Point	1025·8	0	SSW	4	c	59	85	8	5	–	–	9+	9+	800
18	Malin Head	1024·5	+2	W	4	c	60	75	8	5	–	4	4-6	7-8	5700
	Aldergrove	1026·2	−2	SSW	3	c	61	85	8	5	–	–	9+	9+	2500
19	Birr Castle	1027·3	−4	SW	1	c	69	55	8	4	–	–	7-8	7-8	2500
20	Valentia Obsy. †	1028·4	−2	S'W	1	c	62	85	8	5	–	–	9+	9+	1500
	Roches Point	1028·1	−6	SSW	3	c	60	85	9	5	–	–	7-8	7-8	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 1st (37)	Weather 13h.–18h. 1st (38)	Weather 18h. 1st to 1h. 2nd (39)	Weather 1h.–7h. 2nd (40)
London (Kew)	1025·1	−8	NW	2	c	72	55	8	5	–	–	9	9	2500	0	*	c	ccy	c/c	cbczo
Croydon	1024·9	−8	WNW	2	c	71	65	8	8	6	–	7-8	7-8	4000	0	*	c	cbcc	bcbczocm	cm,bmo
S. Farnborough	1025·0	−12	W	2	c	71	55	8	7	–	1	7-8	7-8	4000	0	*	cy	cy	bcy/c	cbcb
Boscombe Down	1025·7	−4	W'N	3	zo	70	65	7	2	6	1	4-6	7-8	4000	0	*	czoc	cybczo	bc,cmo	bcm,if,bm
Calshot (Soton.)	1025·3	−10	SW'S	2	c	69	75	7	4	3	4	1	7-8	4000	0	1	bcc	cbc	bcmobm	bcwmo
Lympne	1025·2	−6	S	1	bc	63	85	8	5	–	–	4-6	4-6	4000	0	§2	bcc	cbc	bcmo	bcmo
Manston	1024·9	−6	SE'E	2	zo	66	75	6	8	3	–	4-6	7-8	4000	0	*	cmobczo	czobczo	bcm,bm,w	bm,wbc
Shoeburyness	1024·8	−6	NW	2	c	69	65	8	8	3	–	9	9	5700	0	*	cmoyc	c	cbc,b	bbczow
Felixstowe	1024·8	−6	E'N	3	bc	61	85	7	1	4	–	4-6	4-6	4000	0	1	czocy	cycbc	bcm,bmow	bcmow
Gorleston	1024·9	−2	S	2	bc	58	85	6	–	7	–	0	4-6	–	0	2	cproc	cbc	bc	bcc
Mildenhall	1024·3	−4	WNW	4	zo	69	65	6	7	3	–	4-6	4-6	4000	0	*	bcczocy/c	czo	bcz,bmo	bm,bcmw
Cranwell	1025·0	−2	NW	4	c	66	65	7	5	–	–	9	9	2500	0	*	cmo zo	czoc	czo,b	b,cbcmo
Birmingham	1025·6	+2	NNW	3	zo	62	75	6	5	7	–	2-3	4-6	2500	1	*	c	cbcz	bc	bcb
Upper Heyford	1025·1	−2	NW	3	bc	71	65	8	8	6	..	4-6	4-6	2500	1	*	c	cbc	cm,bmo	bbmo
Ross-on-Wye	1025·4	0	NWW	3	bc	70	65	8	8	–	1	4-6	4-6	4000	0	*	c	cbc	bcvcb	bwbf
Hartland Point	1027·3	−4	WSW	3	f+	57	97	3	–	–	–	10	10	<150	0	2	Fbcc	if of	fcbc	bccf
Bristol	1026·5	−6	W'S	4	bc	65	85	8	5	3	–	2-3	4-6	4000	0	*	c	cbc	bcm,wb	bifc,bm,w
Portland Bill	1026·9	−8	WNW	2	x	61	85	8	4	4	–	4-6	4-6	4000	0	2	c	cbc	bc	c
Plymouth	1027·0	−10	WNW	3	bc	64	85	8	5	–	1	2-3	2-3	1500	0	1	cmoc	mocbc	bcc	cbcc
The Lizard	1027·7	−6	W	1	bc	61	85	8	8	6	–	4-6	4-6	2500	0	1	Ffc	bc	cbcw	cbc
Scilly (St. Mary's)	1027·8	−8	N	2	c/f	60	85	7	5	7	–	7-8	9+	1500	0	0	cido	oidof	cidom	omffec
Guernsey	1026·9	−6	NNW	1	b	62	85	7	–	–	8	0	1	–	0	2	cdodo	cbcb	bw	bwbc
Pembroke	1027·6	−4	NW	1	bc	58	92	8	2	7	2	1	4-6	2500	1	1	fec	cmobc	bc	Fejfb
Holyhead	1026·4	−4	SSW	3	bc	60	85	8	2	4	2	Tr	4-6	2500	1	2	cdodomoc	cbc	bcwb	wm,jfb
Chester (Sealand)	1026·5	−6	NW	4	c	62	65	8	1	4	6	1	7-8	2500	0	*	c	c	cbcwbmo	bm,wfFdo
Manchester	1026·4	−2	WNW	3	bc	61	65	8	7	4	6	1	4-6	4000	0	*	cmoc	cbc	bffF	bfbFbm
Spurn Head	1024·3	0	E	2	bc	59	85	6	2	6	–	4-6	4-6	800	0	2	c	c	cw	cwbc
Catterick	1024·1	+6	NNW	2	c	69	65	8	2	4	9	2-3	7-8	4000	0	*	cbcy	bcybc	cbcw	bcmowb
Tynemouth	1024·1	0	SSW	3	c	58	75	8	8	4	1	4-6	7-8	2500	0	1	cbcc	c	cbc	bc
St. Abbs Head	1023·7	+2	WNW	3	c	61	65	8	7	4	2	4-6	7-8	2500	0	2	rrc	c	bcc	bc
Leuchars	1023·3	+4	WSW	3	c	66	65	9	7	7	4	2-3	10	4000	0	*	crorobcc	c	c	c
Renfrew (Abbots I.)	1025·6	+4	W'N	3	c	60	75	8	5	7	–	9	9+	1500	1	*	c	c	cbcc	cm,cw
Eskdalemuir	1024·9	+6	NWW	4	c	59	75	8	8	–	6	7-8	9+	2500	0	*	cbc	bcc	cbc	bccwc
Point of Ayre	1026·1	0	W	3	c	66	65	8	1	–	4	Tr	7-8	4000	0	1	bc	bcc	bccw	bc
Tiree	1023·9	+2	SW'W	3	o	56	92	7	5	–	–	10	10	1500	0	3	odmc	o	oc	c
Stornoway	1021·6	+4	SSE	4	c	56	85	6	5	2	–	7-8	10	1500	1	2	c	cpro	cpro	cpro
Dalwhinnie	1024·8	+2	SW	3	c	55	85	7	5	7	–	4-6	10	2500	0	*		ciro		c
Aberdeen	1022·5	+6	E	1	c/r	60	85	8	9	7	–	7-8	10	2500	1	1	roroc	iroirc	c	cbc
Wick	1021·3	+4	WSW	3	c/r	61	75	9	5	7	8	7-8	9+	1500	1	1	roroc	cproc	c	c
Lerwick	1020·0	+4	WSW	5	ir	52	97	6	5	2	–	7-8	10	450	1	*	cpro	cifid ir	cirido	cidcf
Blacksod Point	1025·5	−2	S	3	c	58	85	8	5	–	–	10	10	1500	0	2	c	c	cbc	c
Malin Head	1025·1	+2	W	4	c	59	85	8	5	7	4	4-6	7-8	5700	0	2	c	c	c	c
Aldergrove	1025·3	−4	WSW	2	bc	67	65	9	5	–	2	4-6	4-6	2500	0	*	c	cbc	cbc	bcc
Birr Castle	1026·3	−4	SW	2	bc	69	65	8	5	–	4	4-6	4-6	2500	0	*	cy	bc	cbc	c
Valentia Obsy. †	1027·3	−6	WSW	3	c	61	85	8	5	–	–	9+	9+	1500	0	2	cvc	cidoc	cbc	bcbwc
Roches Point	1027·1	−6	S'W	3	bc	61	85	9	1	–	1	2-3	2-3	4000	0	3	c	bc	b	bcwcm

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

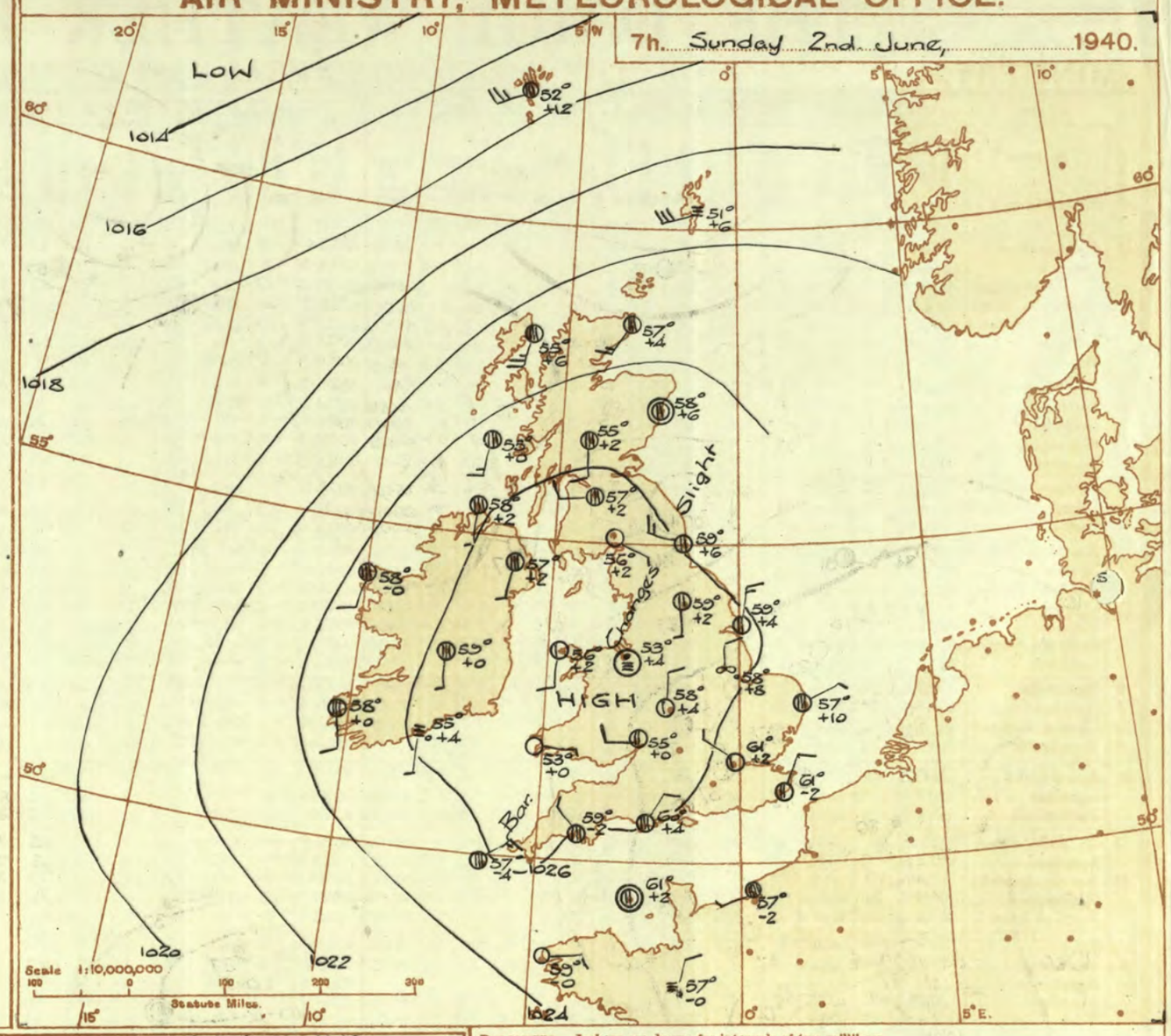
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 2nd June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light variable wind; fine; local mist or fog in early morning; warm.
5 S.W. England 6 South Wales ... 7 North Wales ...	Light south to southeast wind; fair or fine; local coast fog; warm.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light variable wind; fair or fine; local mist or fog in early morning; warm.
12 S.W. Scotland & Isle of Man.	Light southwest wind; fair; local mist or fog in early morning; warm.
13 A. W. Scotld. / B. N.W. Scotland.	Moderate or fresh southwest wind; cloudy, some bright periods in the East; occasional slight rain; rather warm.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light southerly wind; fair or fine; local mist or fog in early morning; warm.

GENERAL INFERENCE.

An anticyclone covering the British Isles is moving slowly northeast, and a depression over Portugal will spread slowly north. Weather will be cloudy with occasional slight rain in the North of Scotland. Elsewhere it will be fine or fair and warm.

FURTHER OUTLOOK.

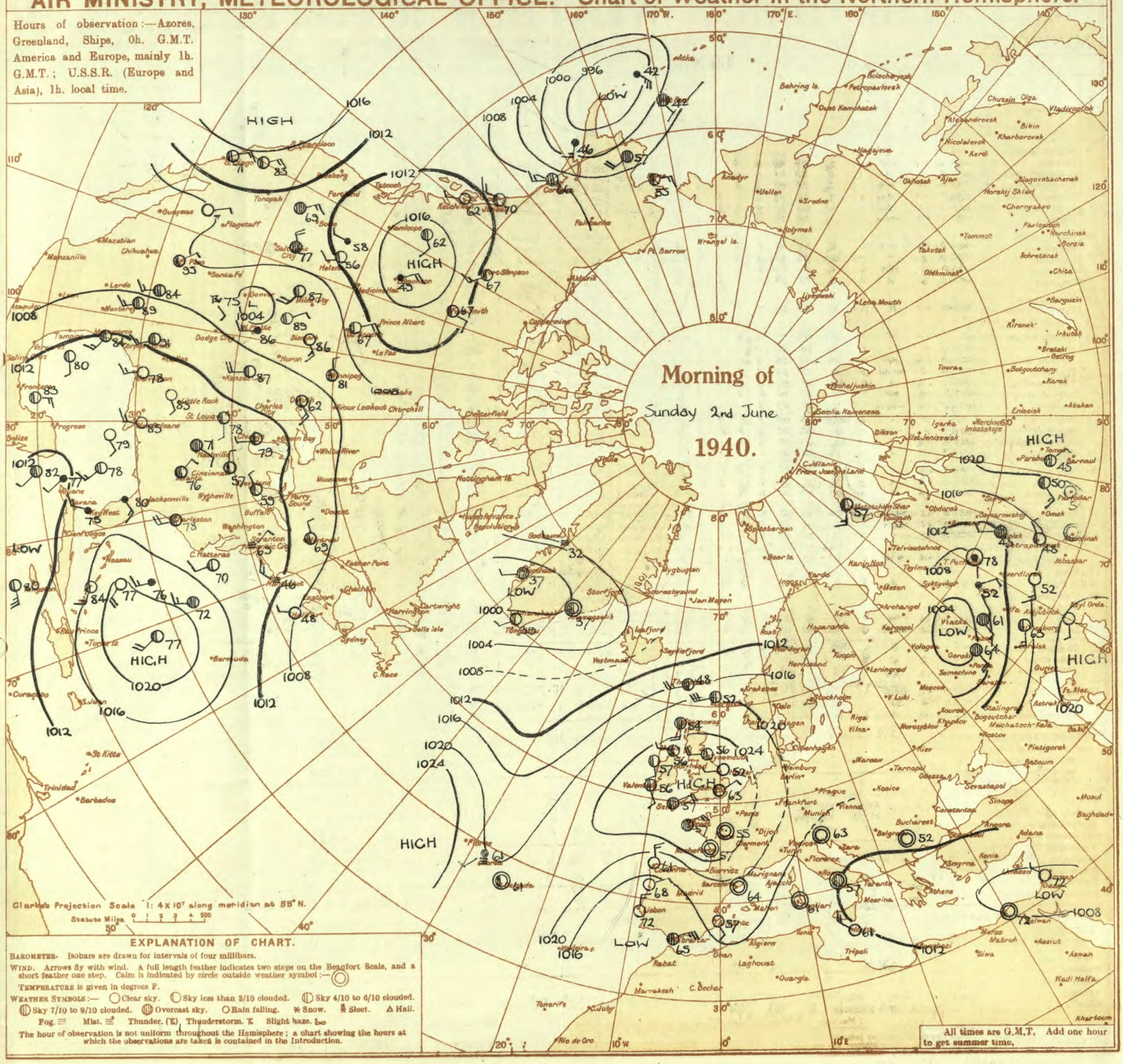
Mainly fair and warm but some thundery rain in the Southwest.

Forecasts issued at 1030 G.M.T

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 2nd June 1940.

No. 28682

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025·6	+2	NE	1	Z_0	63	85	6	5	-	-	10	10	2500
	S. Farnborough	226	1025·9	0	N	1	c	63	85	7	5	-	-	9+	9+	2500
	Boscombe Down	417	1026·5	0	N'E	1	Z_0	57	97	6	5	-	-	9	9	2500
	Calshot (Sthmtn.)	8	1025·7	-2	NW	2	Z_0	58	92	6	-	3	-	0	2-3	-
	Lympne ...	346	1025·4	-2	N'W	2	bc	59	85	7	5	4	-	Tr	2-3	4000
	Manston ...	154	1026·2	-2	NNW	2	Z_0	58	92	6	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1025·3	-4	NW	1	Z_0	56	97	5	-	-	-	0	0	-
	Gorleston ...	5	1025·0	0	-	0	bc	55	85	6	5	-	-	2-3	2-3	2500
	Mildenhall ...	19	1025·3	0	W'N	2	Z_0	51	85	6	-	-	-	0	0	-
	Cranwell ...	240	1026·0	0	W	2	b	52	85	7	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026·5	+2	N	2	b	53	92	7	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027·4	-2	NE	1	bc	55	97	8	5	-	-	4-6	4-6	4000
	Bristol ...	209	1027·0	0	-	0	Z_0	55	97	5	-	-	-	0	0	-
	Portland Bill ...	32	1026·3	-8	NW	2	bc	56	85	8	5	-	-	2-3	2-3	4000
	Plymouth ...	82	1027·0	-2	NNW	3	c	58	92	7	5	-	-	9	9	2500
	The Lizard ...	240	1027·5	-4	N	2	bc	57	92	8	8	-	1	4-6	4-6	2500
	Scilly (St. Mary's)	163	1027·3	-8	NE	2	m	57	97	4	5	-	-	10	10	1500
	Guernsey ...	175	1026·7	-4	NW'W	1	b	56	97	8	-	-	-	0	0	-
6	Pembroke ...	142	1027·5	0	-	0	bjf	53	97	7	-	7	-	0	2-3	-
7	Holyhead ...	26	1026·7	0	S'W	3	b	53	97	8	5	4	-	Tr	Tr	2500
	Chester (Sealand)	16	1027·3	+2	-	0	Z_0	49	97	6	-	-	2	0	1	-
8	Manchester ...	70	1027·2	+4	-	0	F+	40	97	1	-	-	1	0	1	-
10	Spurn Head ...	29	1026·0	+6	-	0	c	55	92	5	5	1	-	9	10	800
	Catterick ...	175	1026·6	+4	-	0	Z_0	51	92	6	-	3	2	0	7-8	-
	Tynemouth ...	108	1025·5	+4	W	3	bc	56	85	6	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	1024·3	+2	WNW	4	bc	56	75	8	4	4	-	2-3	4-6	2500
	Leuchars ...	36	1025·0	+6	WSW	3	c	52	92	7	5	7	-	4-6	9+	4000
12	Renfrew (Abbotsl.)	19	1026·3	+2	-	0	c	55	92	7	5	-	-	10	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1026·8	+4	E'N	1	c	53	97	7	8	-	-	9+	9+	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1022·3	+4	S	4	c	54	92	7	5	2	-	9	10	1500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1022·5	+4	SW	2	c	51	92	7	5	7	8	4-6	9	1500
16	Lerwick ...	156	1021·2	+4	WSW	6	c/d	52	97	6	5	2	-	7-8	10	450
17	Blacksod Point	18	1025·4	-4	S	2	bc	57	97	8	-	6	-	0	4-6	-
18	Malin Head ...	84	1025·5	+2	W	2	c	56	85	8	9	-	-	7-8	7-8	5700
	Aldergrove ...	268	1026·3	+2	S'E	1	bc	56	92	7	5	-	-	4-6	4-6	2500
19	Birr Castle ...	173	1027·0	+2	SSW	1	bc	58	92	8	5	-	-	4-6	4-6	2500
20	Valentia Obsy.	30	1026·8	-6	SE	1	bc	56	92	8	5	-	-	2-3	2-3	4000
	Roches Point	22	1026·7	-6	N	2	b	56	92	8	5	-	-	Tr	Tr	4000

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

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)	1025·9	+2	-	0	Z_0	61	75	6	-	-	6	0	2-3	-	0	*
	Croydon ...	1025·7	+2	NW	1	b	61	75	6	-	-	1	0	Tr	-	0	*
	S. Farnborough	1025·9	0	WNW	1	b	60	65	8	-	-	1	0	Tr	-	0	*
	Boscombe Down	1026·3	+2	N'W	2	Z_0	58	75	7	5	-	-	Tr	Tr	2500	0	*
	Calshot (Sthmtn.)	1026·0	+2	N	2	bc	61	75	7	5	3	-	2-3	4-6	5700	0	1
	Lympne ...	1025·3	-2	NNE	2	bc	61	85	6	-	4	1	0	2-3	-	0	1
	Manston ...	1025·4	0	NNE	3	Z_0	59	85	6	-	3	5	0	2-3	-	0	*
2	Shoeburyness ...	1026·0	+2	NNW	2	b	61	75	6	-	-	-	0	0	-	1	*
	Felixstowe ...	1026·0	+6	ENE	3	Z_0	58	85	6	-	-	6	0	3	-	0	1
	Gorleston ...	1026·2	+10	ENE	1	c	57	75	6	-	3	-	0	7-8	-	0	1
	Mildenhall ...	1026·2	+6	NW	1	Z_0	54	92	6	-	-	8	0	2-3	-	0	*
	Cranwell ...	1026·8	+8	N	2	Z_0	58	85	6	5	7	1	2-3	4-6	2500	0	*
3	Birmingham ...	1026·8	+4	N	2	b	58	75	6	-	7	-	0	1	-	1	*
	Upper Heyford	1026·3	+2	NNW	2	Z_0	54	85	5	-	-	1	0	Tr	-	1	*
4	Ross-on-Wye	1026·6	0	W	2	b/f	55	92	6	5	-	-	2-3	2-3	450	0	*
5	Hartland Point	1026·5	+2	NE	1	f-	55	97	3	-	-	-	10	10	<150	0	2
	Bristol ...	1026·8	0	N	1	bc	60	85	7	1	-	1	2-3	2-3	1500	0	*
	Portland Bill ...	1026·1	+4	NE	2	c	60	85	7	3	4	-	4-6	10	4000	1	2
	Plymouth ...	1025·9	-2	NNW	1	c	59	85	8	5	-	-	9+	9+	2500	0	1
	The Lizard ...	1026·3	-4	NE	2	bc	59	92	8	8	6	-	4-6	4-6	2500	0	1
	Scilly (St. Mary's)	1025·8	-4	NE'E	3	c	57	97	8	8	4	-	4-6	7-8	1500	0	1
	Guernsey ...	1025·2	+2	-	0	bc	61	85	7	7	-	-	4-6	4-6	4000	0	2
6	Pembroke ...	1026·2	0	E'S	1	bjf	53	97	6	-	-	-	0	0	-	1	1
7	Holyhead ...	1026·7	+2	S'W	2	bjf	56	97	6	5	3	-	Tr	1	4000	1	1
	Chester (Sealand)	1027·6	+1	-	0	df	53	97	1	-	-	-	10	10	<150	1	*
8	Manchester ...	1027·3	0	-	0	m	49	97	4	-	-	-	0	0	-	0	*
10	Spurn Head ...	1026·6	+4	N'E	3	bc	59	75	6	-	-	6	0	2-3	-	0	2
	Catterick ...	1026·6	+2	S	1	bc	59	85	8	7	4	-	Tr	2-3	4000	0	*
	Tynemouth ...	1025·9	+6	WNW	3	bc	59	75	7	-	4	-	0	2-3	-	0	1
11	St. Abbs Head	1025·5	+6	WNW	4	bc	59	75	8	7	6	-	4-6	4-6	2500	0	1
	Leuchars ...	1025·4	+2	-	0	c	58	85	8	5	-	-	7-8	7-8	2500	0	*
12	Renfrew (Abbotsl.)	1026·2	+2	W	2	c	57	92	7	5	-	-	10	10	2500	1	*
	Eskdalemuir ...	1026·2	+2	SE'S	1	c	56	85	8	5	-	-	7-8	7-8	4000	0	*
	Point of Ayre ...	1026·6	0	N	1	bc	56	92	8	7	-	-	2-3	2-3	4000	0	0
13A	Tiree ...	1024·4	0	SSW	3	c	55	92	7	5	-	-	9+	9+	1500	0	3
13B	Stornoway ...	1022·5	+6	SSW	5	c	55	92	7	5	2	-	9	10	1500	1	3
15	Dalwhirnie ...	1025·2	+2	S	2	c	55	85	7	5	-	-	10	10	2500	0	*
	Aberdeen ...	1024·7	+6	-	0	bc	58	75	8	5	4	1	2-3	2-3	5700	0	1
	Wick ...	1022·8	+4	SW	3	c	57	75	8	5	7	1	4-6	9	1500	1	1
16	Lerwick ...	1021·5	+6	WSW	6	f+	51	97	3	-	-	-	10	10	<150	1	*
17	Blacksod Point	1025·2	0	S'W	2	c	58	92	8	-	6	-	0	9	-	0	2
18	Malin Head ...	1025·3	+2	S	1	c	58	85	8	9	-	-	7-8	7-8	5700	0	2
	Aldergrove ...	1026·4	+2	SSW	1	c	57	92	8	5	-	-	9+	9+	2500	0	*
19	Birr Castle ...	1026·8	0	S	1	c	59	85	8	5	-	-	9	9	2500	0	*
20	Valentia Obsy.	1025·7	0	SSE	2	c	58	85	8	5	-	-	9+	9+	1500	0	1
	Roches Point	1026·3	+4	S	1	m	55	97	4	5	-	-	9+	9+	220	0	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 1st Hrs. (36)
1	London (Kew)	73	56	46	-	-	5·6
	Croydon ...	72	57	47	-	-	6·0
	S. Farnborough	73	55	49	-	-	4·9
	Boscombe Down	73	54	45	-	-	5·1
	Calshot (Sthmtn.)	72	57	53	-	-	7·8
	Lympne ...	68	54	51	-	-	7·5
	Manston ...	70	55	50	-	-	5·0
2	Shoeburyness ...	71	53	42	-	-	3·0
	Felixstowe ...	72	53	50	-	-	2·2
	Gorleston ...	62	53	52	Tr	-	0·5
	Mildenhall ...	72	46	40	-	Tr	3·1
	Cranwell ...	70	51	48	-	-	4·0
3	Birmingham ...	70	52	45	-	-	2·1
	Upper Heyford	73	49	43	-	-	*
4	Ross-on-Wye	74	49	39	-	-	7·4
5	Hartland Point	59	53	52	-	-	2·4
	Bristol ...	63	51	44	-	-	7·5
	Portland Bill ...	61	54	*	-	-	*
	Plymouth ...	64	57	53	-	-	2·3
	The Lizard ...	63	54	*	Tr	-	6·3
	Scilly (St. Mary's)	63	56	*	Tr	Tr	0·3
	Guernsey ...	63	55	49	Tr	-	2·6
6	Pembroke ...	62	49	*	-	0·1	3·0
7	Holyhead ...	62	51	49	Tr	-	5·6
	Chester (Sealand)	64	46	41	-	-	3·1
8	Manchester ...	66	40	40	-	-	3·4
10	Spurn Head ...	70	53	*	-	Tr	5·9
	Catterick ...	73	47	39	-	-	9·5
	Tynemouth ...	69	54	*	-	-	*
11	St. Abbs Head	63	54	*	0·1	-	*
	Leuchars ...	67	51	45	Tr	-	2·2
12	Renfrew (Abbotsl.)	65	55	48	-	-	0·7
	Eskdalemuir ...	67	49	44	-	-	4·8
	Point of Ayre ...	68	47	*	-	-	11·9
13A	Tiree ...	59	54	*	Tr	-	0·3
13B	Stornoway ...	60	57	*	Tr	Tr	1·4
15	Dalwhirnie ...	59	51	45	Tr	-	0·0
	Aberdeen ...	68	55	43	1	-	0·4
	Wick ...	64	50	*	0·6	-	*
16	Lerwick ...	55	50	*	0·2	0·2	1·5
17	Blacksod Point	62	55	*	-	-	*
18	Malin Head ...	61	49	*	-	-	5·8
	Aldergrove ...	69	54	51	-	-	5·1
19	Birr Castle ...	72	50	47	-	-	6·9
20	Valentia Obsy.	64	52	45	0·1	Tr	0·5
	Roches Point	63	52	*	Tr	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity 15h. G.M.T. % (Yesterday.)	Humidity 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW ...	18	c	ccy	cycbcz	73	56	46	-	-	5·6	*	*	7
CROYDON ...	217	c	cbcc	czcmpm	72	57	47	-	-	6·0	*	*	6
GREENWICH (Royal Observatory) ...	149	c	cy	cbcb	73	55	46	-	-	3·3	55	58	6
CITY (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	73	55	*	-	-		63	65	*
REGENTS PK. (Botanic Gardens)‡ ...	168	*	*	*									*
CAMDEN SQUARE ...	110	c	bc	*	73	57	52	-	-	*	*	57	*
KENSINGTON ...	80	bc	bc	*	74	57	48	-	-		58	59	*
HAMPSTEAD OBSERVATORY ...	450	bc	bc	bc	72	53	51	-	-		*	71	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·1	0-7h. 2nd.	<0·1	rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 1st June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 2nd June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.
PARIS ...	1025·3	-	0	0	57	*				
BRUSSELS ...										
BERLIN ...										
ZÜRICH ...										
ROME ...	1013·9	NNE	2	dd	64					

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
70		-	
*	*	*	

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 „
2	Fog	550 „
3	Moderate fog	1,100 „
4	Mist or haze	1¼ miles.
5	Poor visibility	2¼ „
6	Moderate „	6¼ „
7	Good „	12¼ „
8	Very good „	31 „
9	Excellent „	beyond 31m.

COLUMN 30 —Code for State of Sea.

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

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

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

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 3rd June 1940.

No. 28683.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1025.7	-2	NE	3	z_0	71	55	6	1	–	1	7-8	7-8	4000
	Croydon	1025.3	-2	E'N	3	bc	72	65	6	1	–	–	2-3	2-3	4000
	S. Farnborough	1025.3	-6	NE'N	2	bc	69	35	8	1	–	4	1	4-6	4000
	Boscombe Down	1025.4	-2	N'W	2	z_0	71	55	7	5	–	1	Tr	1	4000
	Calshot (Soton.)	1025.7	-2	SSE	2	bc	71	75	7	1	–	1	2-3	2-3	4000
	Lympne	1026.2	+6	E	3	bc	68	65	7	1	–	–	2-3	2-3	2500
	Manston	1026.7	+6	E'N	3	z_0	65	75	6	–	–	2	0	4-6	–
2	Shoeburyness	1027.1	+2	E	2	z_0	64	75	6	–	1	–	0	9	–
	Felixstowe	1027.3	+4	E	2	bc	63	75	7	1	–	3	1	7-8	2500
	Gorleston	1027.3	+4	ENE	1	bc	59	75	6	–	–	1	0	2-3	–
	Mildenhall	1026.5	+2	NNE	1	c	72	65	7	7	–	–	9	9	2500
	Cranwell	1027.0	-4	ESE	2	bc	74	45	7	1	–	–	4-6	4-6	2500
3	Birmingham	1026.3	0	–	0	m_0	68	55	6	7	–	–	7-8	7-8	2500
	Upper Heyford	1026.2	0	ENE	2	bc	71	65	7	2	–	–	4-6	4-6	2500
4	Ross-on-Wye	1025.4	-6	ENE	3	bc	71	55	7	1	–	–	4-6	4-6	4000
5	Hartland Point	1025.8	-2	NE	2	bc	57	92	8	1	–	–	2-3	2-3	2500
	Bristol	1026.1	-4	E	2	b	72	55	8	1	–	–	2-3	2-3	4000
	Portland Bill	1026.1	+2	ESE	1	b	64	85	8	–	–	–	0	0	–
	Plymouth	1025.4	-6	S'W	3	bc	67	75	7	2	–	–	4-6	4-6	2500
	The Lizard	1025.9	-2	E	3	bc	68	85	8	8	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	1025.6	-2	NE'E	2	bcjf	65	85	7	5	–	–	2-3	2-3	1500
	Guernsey	1025.0	0	E'N	1	z_0	67	75	6	1	–	–	Tr	Tr	2500
6	Pembroke	1026.7	-2	–	0	bc	61	85	7	2	–	–	2-3	2-3	2500
7	Holyhead	1027.2	+2	NNW	2	bc	56	92	8	8	3	–	Tr	Tr	2500
	Chester (Sealand)	1026.9	-2	NW'W	2	z_0	71	65	6	1	–	–	2-3	2-3	2500
8	Manchester	1026.6	-6	W	1	bc	72	55	7	1	–	–	4-6	4-6	4000
10	Spurn Head	1027.8	+4	E'N	2	bc	63	75	7	–	7	1	0	2-3	–
	Catterick	1026.6	-2	S'W	1	bc	73	65	8	7	–	–	4-6	4-6	4000
	Tynemouth	1026.4	+2	SE	3	c	62	65	8	8	3	–	4-6	7-8	2500
11	St. Abbs Head	1025.9	+2	ESE	1	bc	61	75	8	2	6	–	4-6	4-6	2500
	Leuchars	1025.3	+2	W	3	bc	69	55	8	7	–	–	4-6	4-6	4000
12	Renfrew (Abbots I.)	1026.4	-2	NNW	3	c	65	65	9	7	–	–	9	9	4000
	Eskdalemuir	1025.6	0	SW'S	4	bc	66	65	8	8	–	–	4-6	4-6	2500
	Point of Ayre	1027.2	+4	ESE	2	bc	64	75	8	7	–	–	2-3	2-3	2500
13A	Tiree	1025.3	+2	SSW	4	c	62	85	8	5	3	–	7-8	7-8	4000
13B	Stornoway	1023.6	+4	SSW	5	c	58	75	8	5	7	–	7-8	9+	1500
15	Dalwhinnie	1025.0	0	SW	4	bc	64	65	8	4	6	–	2-3	4-6	4000
	Aberdeen	1025.2	+2	SE	3	bc	64	65	8	7	4	–	1	1	2500
	Wick	1023.8	+2	SSW	3	bc	57	85	8	5	6	–	4-6	4-6	1500
16	Lerwick	1023.2	+6	WSW	4	c	54	92	8	5	7	–	4-6	9	800
	Blacksod Point	1025.0	-4	SSW	2	c	62	75	8	–	7	–	0	9	–
	Malin Head	1026.0	0	SE	1	c	61	65	8	8	6	–	4-6	7-8	5700
	Aldergrove	1026.3	-4	–	0	bc	70	65	9	7	–	–	7-8	7-8	4000
19	Birr Castle	1025.5	-4	S	1	bc	75	55	8	1	–	–	4-6	4-6	2500
20	Valentia Obsy. †	1024.6	-6	SSW	4	b	67	75	8	7	–	–	1	1	2500
	Roches Point	1026.7	+2	S	2	c	61	85	8	5	–	–	9+	9+	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1025.8	0	ENE	3	b	71	55	7	1	–	1	Tr	1	2500	0	*
Croydon	1025.4	-2	ENE	3	b	68	55	8	–	–	1	0	1	–	0	*
S. Farnborough	1025.1	-2	ENE	2	bc	71	65	7	4	–	4	1	2-3	4000	0	*
Boscombe Down	1024.2	-6	E'N	2	bc	75	35	8	2	–	1	4-6	4-6	2500	0	*
Calshot (Soton.)	1024.7	-2	SW	2	m_0	72	65	6	–	–	1	0	Tr	–	0	1
Lympne	1026.3	+2	NE'N	4	bc	61	75	9	5	–	1	Tr	2-3	1500	0	§2
Manston	1026.7	-2	NE'E	3	bc	60	75	7	5	–	2	1	4-6	800	0	*
Shoeburyness	1027.1	-2	E'N	2	bc	61	85	6	–	–	5	0	2-3	–	0	*
Felixstowe	1027.2	0	E'N	3	bc	60	85	7	–	–	1	0	Tr	–	0	1
Gorleston	1027.1	0	E'N	1	b	58	85	6	–	–	1	0	Tr	–	0	1
Mildenhall	1026.0	-4	E'N	2	c	71	55	8	7	–	–	7-8	7-8	2500	0	*
Cranwell	1027.0	+2	SE	3	b	68	65	7	–	–	–	0	0	–	0	*
Birmingham	1025.1	-6	NE	2	b	71	45	8	1	–	–	2-3	2-3	5700	1	*
Upper Heyford	1025.7	-2	E	2	b	70	65	8	2	–	1	Tr	Tr	2500	0	*
Ross-on-Wye	1024.9	-10	ENE	3	bc	72	55	7	1	–	–	1	1	4000	0	*
Hartland Point	1024.2	-10	NNE	2	bc	60	85	8	4	–	–	4-6	4-6	4000	0	2
Bristol	1025.1	-6	ENE	3	b	72	55	7	–	–	–	0	0	–	0	*
Portland Bill	1025.6	-4	SE	1	b	62	85	7	–	–	–	0	0	–	1	2
Plymouth	1024.6	-2	S'E	2	m_0	65	85	7	4	–	–	2-3	2-3	4000	0	2
The Lizard	1024.9	-8	–	0	bcjf	63	85	7	4	–	–	2-3	2-3	2500	0	1
Scilly (St. Mary's)	1024.8	-6	ENE	2	f	60	97	2	–	–	–	10	10	<150	0	1
Guernsey	1024.2	-6	ENE	1	m_0	64	75	6	–	–	–	0	0	–	0	2
Pembroke	1025.3	-8	N'E	2	b	65	75	8	2	–	–	1	1	2500	0	1
Holyhead	1025.9	-10	NW'W	2	b	59	85	8	–	–	–	0	9	–	1	2
Chester (Sealand)	1026.0	-2	WNW	3	b	69	65	8	–	–	–	0	0	–	0	*
Manchester	1025.6	[illegible]	WNW	3	bc	70	65	8	1	–	–	1	1	5700	0	*
Spurn Head	1026.9	-2	SE	2	b	59	85	7	–	–	–	0	0	–	0	1
Catterick	1025.1	-10	WSW	1	bc	73	45	8	8	6	–	2-3	4-6	4000		*
Tynemouth	1025.9	-4	SE	3	bc	60	65	8	2	3	–	2-3	4-6	2500	0	1
St. Abbs Head	1025.6	+2	SSE	4	bc	61	75	9	1	6	–	2-3	2-3	2500	0	1
Leuchars	1024.4	-6	WSW	3	b	72	55	8	1	–	–	Tr	Tr	4000	0	*
Renfrew (Abbots I.)	1025.7	-6	WSW	3	bc	67	55	9	5	3	9	2-3	4-6	4000	1	*
Eskdalemuir	1025.3	0	WSW	3	bc	66	65	8	8	–	–	4-6	4-6	2500	0	*
Point of Ayre	1026.6	-6	S'E	2	b	59	85	8	1	–	–	Tr	Tr	2500	0	1
Tiree	1025.1	-2	SW'S	1	c	60	75	9	5	–	–	9+	9+	4000	0	2
Stornoway	1023.1	-4	SSW	4	c	57	85	8	5	7	–	4-6	9+	4000	1	2
Dalwhinnie	10															*
Aberdeen	1024.5	-4	E	2	bc	58	85	8	1	–	–	Tr	Tr	4000	0	1
Wick	1024.3	+2	NE	2	bc	54	85	8	4	6	–	2-3	2-3	2500	0	1
Lerwick	1023.3	-2	WSW	4	c	54	97	7	5	2	–	7-8	9+	800	1	*
Blacksod Point	1024.7	-4	W'S	1	bc	59	85	8	–	5	–	0	4-6	–	0	2
Malin Head	1024.6	-6	E	1	c	58	75	8	5	–	4	2-3	7-8	5700	0	2
Aldergrove	1024.9	-8	SSW	2	bc	72	65	9	5	4	–	2-3	4-6	2500	0	*
Birr Castle	1024.6	-2	S	1	bc	74	55	8	–	4	4	0	2-3	–	0	*
Valentia Obsy. †	1023.7	-6	S'E	4	b	67	75	9	7	4	–	Tr	Tr	2500	0	3
Roches Point	1025.8	-4	S'E	2	c	58	92	8	5	–	–	7-8	7-8	2500	0	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)	bcz_0ccz_0y	cz_0ybcby	bybw	bm_0w
Croydon	bcz_0	bcz_0by	bybw	$bwbcm_0$
S. Farnborough	bcbcy	$bcyz_0b$	bcb	$bbcfum_0$
Boscombe Down	bm_0b	$bybz_0$	bcm_0	bm_0wbm_0
Calshot (Soton.)	bccbc	$bcbz_0$	bm_0w	bm_0
Lympne	$bcbm_0cb$	bcybc	bcbbcw	$bccbcm_0$
Manston	bm_0bcz_0	bcz_0bc	$bcbm_0w$	$bm_0wfg\ bm_0$
Shoeburyness	bcz_0	cz_0bc	bcm_0zb	bw
Felixstowe	bc	bcb	bbm_0w	bwbm
Gorleston	$cbcz_0$	bcz_0	bz_0	bwz_0
Mildenhall	bm_0wcy	cbcy	bcybw	$bwfg\ m_0b$
Cranwell	bcbcy	bcyb	bbwfg	bfg bcb
Birmingham	bbcz	bcb	b	b
Upper Heyford	bz_0bc	bcb	bbm_0	bm_0
Ross-on-Wye	bbc	bcyby	bm_0w	bb
Hartland Point	ffcbc	bc	bcb	b
Bristol	bcby	bbcby	$bybcbm_0$	bm_0wfgb
Portland Bill	bcb	bb	bbc	bcb
Plymouth	cbc	bc	bm_0	bm_0wb
The Lizard	bc	bc	bcw	bcw
Scilly (St. Mary's)	offbc	coffe	FFe	bz
Guernsey	$bcbz_0$	bz_0	bz_0w	bwz_0
Pembroke	bifbc	bcb	bc	m_0b
Holyhead	wjfb	b	wb	cwb
Chester (Sealand)	Fd_0bbcm_0	b	$bbcbm_0w$	bm_0wfm
Manchester	bz_0bcy	cbcby	bbm_0	bmwfg
Spurn Head	bc	bcb	bc	bcw
Catterick	cbc	bccbcy	bcybw	$wfg\ bm_0$
Tynemouth	bcc	cbc	bc	bc
St. Abbs Head	cbc	bc	bc	bc
Leuchars	cbcy	bcby	bc	bbc
Renfrew (Abbots I.)	cwc	cbcbv	cycbcw	bfgwbc
Eskdalemuir	cbc	bc	bcb	bw
Point of Ayre	cbc	b	bb	b
Tiree	c	c	cbc	bcc
Stornoway	c	cpr_0	cpr	cpr_0
Dalwhinnie	c			bcc
Aberdeen	bcb	b	b	bcb
Wick	cbc	bc	bcprc	c
Lerwick	$cfcm_0$	cid_0	cr_0r_0	cr_0rid
Blacksod Point	c	bc	c	bc
Malin Head	cvc	c	ccbcc	bccc
Aldergrove	cbc	bc	bcbbcw	bcwb
Birr Castle	bcy	bcy	b	b
Valentia Obsy. †	cbcb	b	bbw	bwcbcc
Roches Point	c	c	ffe	coffe

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_0, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_0/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_0, slight rain.
rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

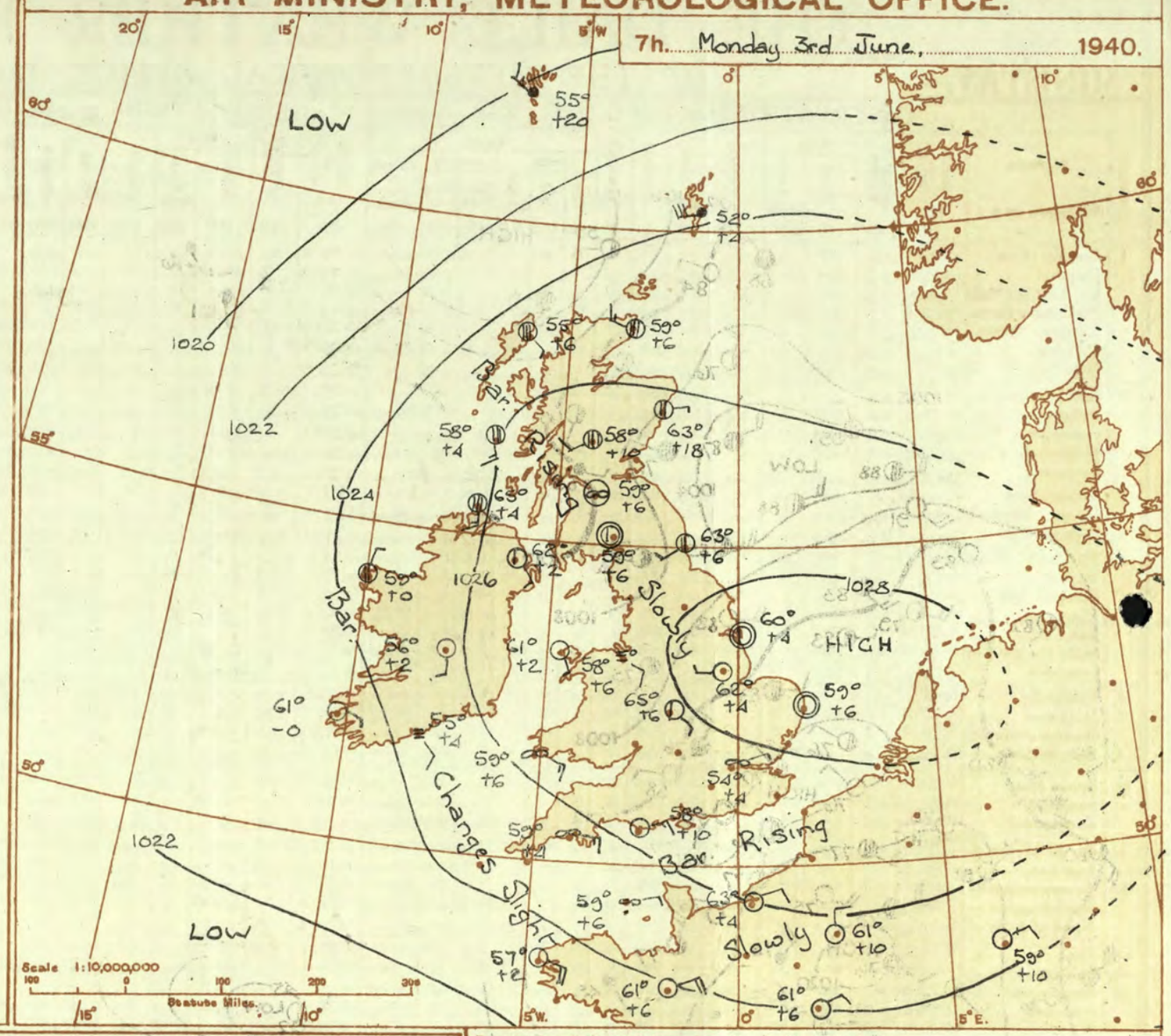
COLUMN 29—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 3rd June, 1940.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 3rd June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light to moderate south to southeast wind; fine; warm or very warm.
13 A. W. Scotld. B.N.W.Scotland.	As 15 - 16.
14 Mid Scotland	As 1 - 13A.
15 N. E. Scotland 16 Orkneys and Shetlands	Fresh westerly wind; cloudy; occasional light rain or showers; average temperature or rather warm.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1 - 13A.

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

GENERAL INFERENCE.

A large anticyclone centred over the Southern North Sea covers the British Isles. Weather will be cloudy with occasional light rain or showers in the extreme North of Scotland. Elsewhere it will be fine and warm.

FURTHER OUTLOOK.

Fair or fine in most districts; warm.

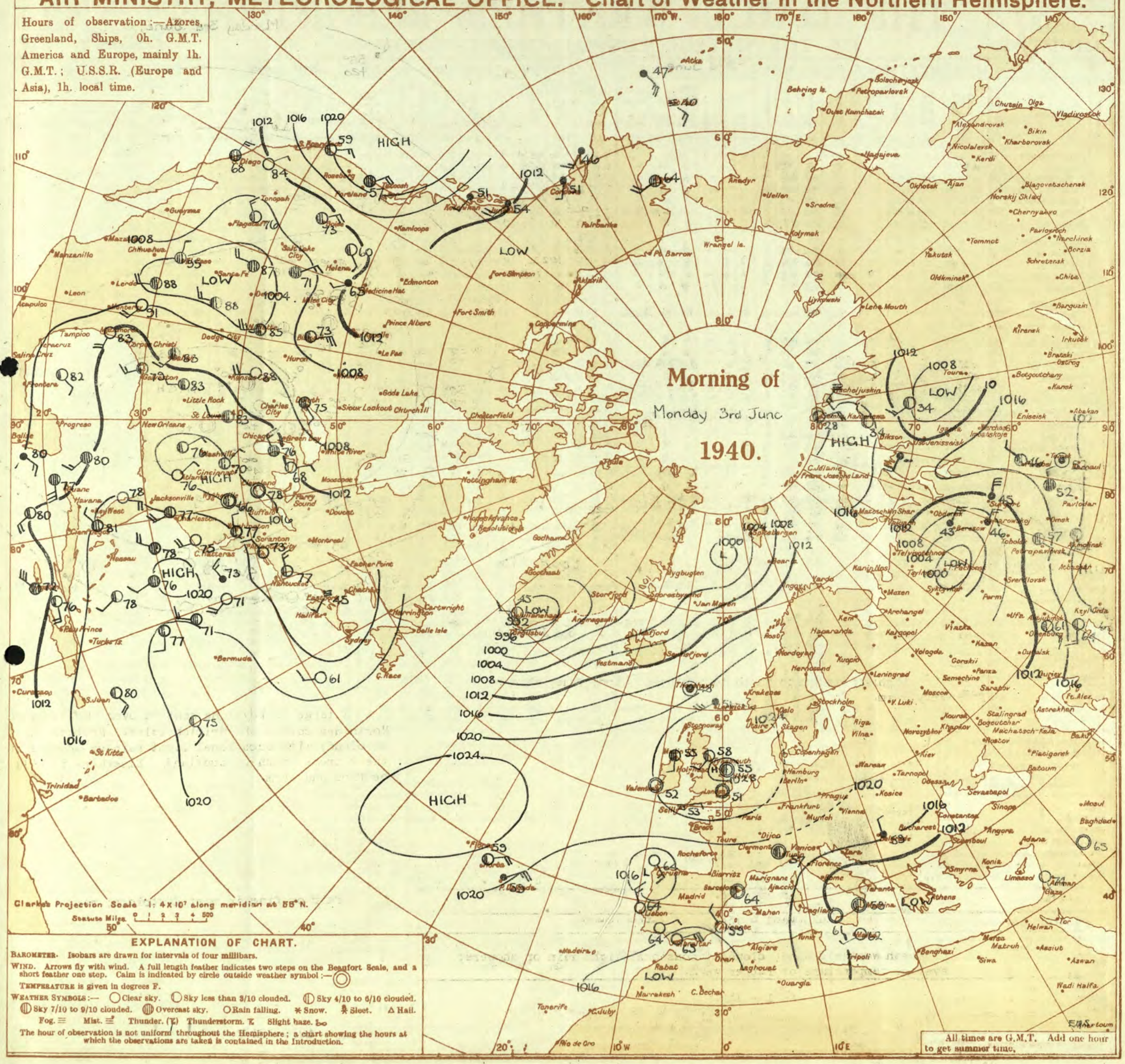
Forecasts issued at 1030 G.M.T.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 3rd June 1940.

No. 28683

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

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	1027.2	+4	–	0	b	51	97	7	–	–	–	0	0	–
	S. Farnborough	226	1027.2	+6	NE'E	3	b	55	86	7	–	–	–	0	0	–
	Boscombe Down	417	1026.9	+6	E'N	2	Z_0	58	85	6	–	–	–	0	0	–
	Calshot (Sthmtn.)	8	1026.5	+2	NE'E	2	Z_0	57	92	6	–	–	–	0	0	–
	Lympne ...	346	1027.1	0	ENE	2	bc	52	92	7	5	–	–	4-6	4-6	1500
	Manston ...	154	1027.4	-2	ENE	2	Z_0	53	97	6	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1027.8	-2	–	0	b	54	92	7	–	–	–	0	0	–
	Gorleston ...	5	1027.5	0	–	0	b	54	85	6	–	–	–	0	0	–
	Mildenhall ...	19	1027.6	+2	E'S	1	b	50	97	7	–	4	–	0	Tr	–
	Cranwell ...	240	1028.0	+6	–	0	b	49	97	7	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1027.6	+8	–	0	Z_0	56	86	6	5	–	–	Tr	Tr	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1025.1	0	ESE	2	b	60	88	8	–	–	–	0	0	–
	Bristol ...	209	1026.7	+10	SE	2	Z_0	57	85	5	–	–	–	0	0	–
	Portland Bill ...	32	1025.8	+4	E	3	bc	57	85	7	5	–	–	2-3	2-3	4000
	Plymouth ...	82	1025.6	+2	E'S	1	Z_0	57	92	6	–	–	–	0	0	–
	The Lizard ...	240	1025.0	-2	ENE	3	bc	57	97	7	4	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	163	1024.8	+2	ENE	2	b/F	53	97	5	5	–	–	2-3	2-3	1500
	Guernsey ...	175	1024.7	+4	E'N	1	Z_0	55	92	6	–	–	–	0	0	–
6	Pembroke ...	142	1026.0	+4	E	2	bc	57	85	8	5	–	–	2-3	2-3	2500
7	Holyhead ...	26	1026.0	-2	SE'S	1	b	56	85	8	–	–	–	0	0	–
	Chester (Sealand)	16	1027.2	+4	–	0	Z_0	53	97	5	–	–	–	0	0	–
8	Manchester ...	70	1027.2	+6	NE	1	Z_0	52	97	5	–	–	–	0	0	–
10	Spurn Head ...	29	1027.6	0	–	0	bc	56	92	6	–	1	–	0	2-3	–
	Catterick ...	175	1027.6	+6	–	0	b	52	97	7	–	–	–	0	0	–
	Tynemouth ...	108	1026.5	+4	SW	1	bc	58	85	6	5	–	–	2-3	2-3	1500
11	St. Abbs Head	280	1025.9	0	WNW	2	bc	62	65	8	4	4	–	2-3	2-3	2500
	Leuchars ...	36	1025.7	+2	WSW	2	bc	57	85	7	5	–	–	2-3	2-3	2500
12	Renfrew (Abbots I.)	19	1026.3	+2	–	0	bc	54	92	7	5	3	–	2-3	4-6	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1026.7	+2	S'W	2	b	53	97	8	–	4	–	0	Tr	–
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1024.3	+2	S	3	pr	54	92	7	8	7	–	7-8	9+	1500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1024.4	-6	SW	1	c	55	92	7	5	7	4	4-6	9	1500
16	Lerwick ...	156	1024.1	+2	SW	5	f/r	51	97	7	5	2	–	4-6	10	800
17	Blacksod Point	18	1025.0	-4	–	0	c	56	97	8	5	–	–	10	10	<150
18	Malin Head ...	84	1025.0	0	–	0	c	55	92	8	8	8	–	2-3	7-8	5700
	Aldergrove ...	268	1026.0	+2	–	0	bc	55	92	8	–	3	–	0	4-6	–
19	Birr Castle ...	173	1025.4	+2	S'E	1	b	55	85	8	–	–	–	0	0	–
20	Valentia Obsy.	30	1024.0	-4	–	0	b	52	92	9	5	–	–	2-3	2-3	2500
	Roches Point	22	1025.3	-2	S'E	2	f	55	97	3	5	–	–	10	10	<150

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

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)	1028.1	+6	NE'N	1	Z_0	57	85	5	–	–	–	0	0	–	0	*
	Croydon ...	1027.5	+4	ENE	1	Z_0	54	97	6	5	–	–	4-6	4-6	1500	0	*
	S. Farnborough	1027.7	+4	ENE	1	Z_0	57	85	6	–	–	–	0	0	–	0	*
	Boscombe Down	1027.3	+2	E'N	2	Z_0	59	75	6	5	–	–	Tr	Tr	1500	0	*
	Calshot (Sthmtn.)	1026.8	+2	NE'E	2	Z_0	60	85	6	–	4	–	0	Tr	–	0	1
	Lympne ...	1027.7	+6	NE'E	1	Z_0	57	92	6	3	–	–	1	1	450	0	2
	Manston ...	1028.2	+6	E'N	2	Z_0	60	85	6	1	–	–	2-3	2-3	1500	0	*
2	Shoeburyness ...	1028.4	+6	E'N	2	b	61	85	8	1	–	–	Tr	Tr	5700	1	*
	Felixstowe ...	1028.6	+8	ENE	1	b	59	85	7	–	–	–	0	0	–	0	1
	Gorleston ...	1028.6	+6	–	0	b	59	75	6	–	–	–	0	0	–	0	0
	Mildenhall ...	1028.6	+8	ESE	1	b	59	85	8	–	–	–	0	0	–	1	*
	Cranwell ...	1028.2	+4	W	1	b	62	75	7	–	–	–	0	0	–	0	*
3	Birmingham ...	1027.7	+6	SE	1	b	65	65	6	5	–	–	Tr	Tr	2500	1	*
	Upper Heyford	1027.9	+4	E	1	Z_0	60	75	6	–	–	–	0	0	–	0	*
4	Ross-on-Wye	1027.0	+6	NE	2	Z_0	62	85	6	–	–	–	0	0	–	0	*
5	Hartland Point	1025.2	+4	ESE	3	b	60	75	8	–	–	–	0	0	–	0	2
	Bristol ...	1027.2	+2	ESE	1	b	61	75	7	–	–	–	0	0	–	0	*
	Portland Bill ...	1026.5	+10	ENE	3	b	58	85	7	–	–	–	0	0	–	1	2
	Plymouth ...	1025.9	+4	E'S	3	Z_0	59	85	6	1	–	–	Tr	Tr	4000	0	1
	The Lizard ...	1025.2	+2	E'S	4	bc	58	92	6	7	–	–	2-3	2-3	4000	0	2
	Scilly (St. Mary's)	1024.4	+4	E	4	b	58	97	5	–	–	–	0	0	–	0	2
	Guernsey ...	1024.9	+6	ENE	1	Z_0	59	85	6	–	–	–	0	0	–	0	1
6	Pembroke ...	1026.8	+6	ESE	3	Z_0	59	85	6	–	–	–	0	0	–	0	2
7	Holyhead ...	1026.2	+2	SE'S	1	b	61	85	7	–	–	–	0	0	–	0	1
	Chester (Sealand)	1027.6	+6	SE	2	m	58	92	4	–	–	–	0	0	–	0	*
8	Manchester ...	1027.9	+6	SE'E	1	b/f	62	85	5	–	–	–	0	0	–	0	*
10	Spurn Head ...	1028.2	+4	–	0	bc	60	85	6	–	4	–	0	1	–	0	1
	Catterick ...	1027.8	+2	S'W	2	Z_0	57	85	6	–	–	–	0	0	–	0	*
	Tynemouth ...	1027.0	+6	SW	1	bc	63	75	6	5	–	–	2-3	2-3	1500	0	0
11	St. Abbs Head	1026.7	+10	SW	1	bc	65	65	9	7	4	–	1	2-3	2500	0	1
	Leuchars ...	1026.7	+2	WNW	1	bc	61	75	8	–	3	1	0	2-3	–	0	*
12	Renfrew (Abbots I.)	1027.1	+6	–	0	Z_0	59	85	6	–	–	6	0	7-8	–	0	*
	Eskdalemuir ...	1027.8	+6	–	0	bc	59	85	8	–	–	1	0	Tr	–	0	*
	Point of Ayre ...	1026.9	+4	SE'S	2	b	58	92	8	–	–	2	0	1	–	0	1
13A	Tiree ...	1024.8	+4	S'E	3	c	58	85	8	5	3	–	7-8	9	2500	0	2
13B	Stornoway ...	1025.2	+6	SE	1	c	55	92	8	5	9	3	4-6	9	2500	1	0
15	Dalwhirnie ...	*	+10	SW	2	c	58	85	8	4	3	5	1	9+	4000	0	*
	Aberdeen ...	1026.5	+18	E	1	bc	63	75	7	8	4	9	1	2-3	2500	0	1
	Wick ...	1025.5	+6	WNW	3	c	59	85	9	5	7	6	4-6	9+	2500	1	1
16	Lerwick ...	1023.9	+4	WSW	6	id	52	97	6	8	2	–	7-8	10	450	1	*
17	Blacksod Point	1024.0	0	NNE	1	bc	59	85	8	–	4	–	0	4-6	–	0	2
18	Malin Head ...	1024.5	+4	S	3	c	65	85	8	–	5	–	0	7-8	–	0	2
	Aldergrove ...	1026.3	+2	SE	1	b	62	75	8	–	–	1	0	Tr	–	0	*
19	Birr Castle ...	1025.4	+2	S	1	b	56	85	7	–	–	–	0	0	–	0	*
20	Valentia Obsy.	1023.6	0	ESE	1	c	61	85	8	5	–	6	7-8	9	2500	0	1
	Roches Point	1024.8	+4	SE	2	f+	55	97	3	5	–	–	10	10	<150	0	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 2nd Hrs. (36)
1	London (Kew)	73	52	39	–	–	14.3
	Croydon ...	73	48	39	–	–	14.5
	S. Farnborough	77	46	41	–	–	12.9
	Boscombe Down	76	51	40	–	–	12.5
	Calshot (Sthmtn.)	76	53	49	–	–	11.7
	Lympne ...	69	49	45	–	–	14.5
	Manston ...	67	49	40	–	–	14.4
2	Shoeburyness ...	65	51	51	–	–	15.2
	Felixstowe ...	63	47	44	–	–	14.7
	Gorleston ...	61	50	50	–	–	15.0
	Mildenhall ...	73	45	39	–	–	8.7
	Cranwell ...	75	48	39	–	–	11.5
3	Birmingham ...	73	52	42	*	–	11.4
	Upper Heyford	72	51	45	–	–	*
4	Ross-on-Wye	73	53	47	–	–	12.3
5	Hartland Point	61	57	53	–	–	8.0
	Bristol ...	74	51	43	–	–	13.7
	Portland Bill ...	66	54	*	–	–	*
	Plymouth ...	~~51~~	~~55~~	47	–	–	10.9
	The Lizard ...	68	56	*	–	–	14.2
	Scilly (St. Mary's)	67	53	*	–	Tr	8.2
	Guernsey ...	69	54	48	–	–	13.9
6	Pembroke ...	65	56	*	–	–	13.5
7	Holyhead ...	60	54	47	–	–	14.1
	Chester (Sealand)	72	51	47	–	–	10.9
8	Manchester ...	75	(50)	46	–	–	9.0
10	Spurn Head ...	67	52	*	–	–	14.0
	Catterick ...	*	49	42		–	11.8
	Tynemouth ...	66	55	51	–	–	*
11	St. Abbs Head	65	55	*	–	–	*
	Leuchars ...	72	54	47	–	–	10.6
12	Renfrew (Abbots I.)	71	48	42	–	–	6.0
	Eskdalemuir ...	70	43	39	–	–	9.4
	Point of Ayre ...	64	49	*	–	–	14.0
13A	Tiree ...	(62)	51	*	–	–	0.5
13B	Stornoway ...	61	53	*	Tr	0.3	0.3
15	Dalwhirnie ...		43	37		–	8.1
	Aberdeen ...	66	51	46	–	–	12.0
	Wick ...	64	51	*	–	Tr	*
16	Lerwick ...	56	50	*	Tr	0.4	1.1
17	Blacksod Point	62	*	*	–	–	*
18	Malin Head ...	64	54	*	–	–	4.3
	Aldergrove ...	73	51	49	–	–	9.9
19	Birr Castle ...	78	49	46	–	–	14.0
20	Valentia Obsy.	68	52	46	–	Tr	13.7
	Roches Point	63	54	*	–	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	bcz cczy	cz y baby	bybum	73	52	39	–	–	14.3	•	•	5
Croydon ...	217	bcz	bcz by	bybwm	73	48	39	–	–	14.5	•	•	5
Greenwich (Royal Observatory) ...	149	bc	cb	bcmb	71	50	37	–	–	12.6	59	75	7
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	73	56	50	–		13.9	61	73	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	73	53	48	–	–		63	59	•
Camden Square ...	110	bc	bc	•	76	53	45	–	–	•	•	71	•
Kensington ...	80	bc	bc	•	76	52	43	–	–		56	70	•
Hampstead Observatory ...	450	bc	bcc	bcm	71	51	48	–	–		•	78	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0.2	6h 3rd	<0.1	15-22h 2nd

FOREIGN OBSERVATIONS.

18h. G.M.T. 2nd June ... 7h. G.M.T. 3rd June

Stations	18h. Barom. mb.	18h. Wind Direc.	18h. Wind Force	18h. Weather	18h. Temp. °F.	7h. Barom. mb.	7h. Wind Direc.	7h. Wind Force	7h. Weather	7h. Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	028.5		5	c	68	1028.8	N	2		61	73	52	–	–
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...						011.9	NNE	5	c	*	•	•		–

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

~~SECRET~~

BRITISH SECTION

Tuesday 4th June 1940.

No. 28,684.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1027.3	-6	E'N	4	bc	71	55	8	1	-	-	2-3	2-3	2500
	Croydon	1027.0	-6	E	3	bc	72	65	8	1	-	-	2-3	2-3	4000
	S. Farnborough	1026.6	-8	E'N	1	c	73	55	7	4	-	-	7-8	7-8	400
	Boscombe Down	1026.8	-10	ESE	3	z	76	45	7	1	-	-	2-3	2-3	4000
	Calshot (Soton.)	1026.8	-4	SE	4	bc	65	75	7	1	1	-	Tr	4-6	4000
	Lympne	1027.6	-2	ENE	3	bc	68	65	9	1	-	-	2-3	2-3	2500
	Manston	1028.1	-2	NE	3	b	64	75	8	1	-	-	Tr	Tr	2500
2	Shoeburyness	1028.7	-2	E'N	3	b	63	85	8	1	-	3	Tr	Tr	1500
	Felixstowe	1028.7	-4	E'S	2	b	63	75	8	1	-	-	Tr	Tr	2500
	Gorleston	1028.8	-2	SE'E	2	b	64	75	6	-	-	-	0	0	-
	Mildenhall	1027.6	-8	SE'E	3	c	73	55	9	1	-	-	7-8	7-8	4000
	Cranwell	1028.0	+2	SE	3	b	75	45	8	1	-	-	1	1	4000
3	Birmingham	1027.0	-4	ESE	2	bc	73	45	8	1	-	-	2-3	2-3	4000
	Upper Heyford	1027.0	-6	E	2	b	73	55	8	1	-	-	1	1	4000
4	Ross-on-Wye	1025.9	-10	E	3	b	75	45	8	1	-	-	1	1	5700
5	Hartland Point	1024.6	-8	ESE	3	b	71	65	8	1	-	1	Tr	1	4000
	Bristol	1026.1	-10	ESE	2	bc	75	46	8	1	-	-	2-3	2-3	4000
	Portland Bill	1026.6	+2	E	3	bc	61	85	7	3	-	-	2-3	2-3	4000
	Plymouth	1025.6	-2	E'N	3	z	68	65	7	1	-	-	1	1	2500
	The Lizard	1024.8	-4	E'N	4	bc	64	85	6	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	1024.1	+2	E'S	4	b	66	85	6	-	-	-	0	0	-
	Guernsey	1024.4	-6	ENE	3	b	63	75	7	-	-	-	0	0	-
6	Pembroke	1025.5	-8	ESE	3	bc	63	76	7	2	7	1	1	2-3	2500
7	Holyhead	1026.1	-4	NW'N	2	b	61	85	7	-	-	1	0	Tr	-
	Chester (Sealand)	1026.6	-6	SSE	2	z	76	55	6	1	-	-	2-3	2-3	2500
8	Manchester	1026.8	-8	S	3	b	77	55	8	1	-	-	1	1	4000
10	Spurn Head	1028.1	0	ESE	3	b	64	75	6	2	-	-	1	1	800
	Catterick	1026.2	-10	S	2	b	80	46	7	2	-	1	Tr	Tr	4000
	Tynemouth	1027.5	+4	SE	3	z	63	75	6	5	-	-	2-3	2-3	1500
11	St. Abbs Head	1027.7	+4	SSE	2	bc	68	65	8	7	4	1	2-3	4-6	2500
	Leuchars	1026.4	-4	SE	3	bc	68	46	8	7	7	-	Tr	2-3	4000
12	Renfrew (Abbotsinch)	1026.0	-8	NW'N	1	bc	74	55	8	2	-	5	2-3	4-6	4000
	Eskdalemuir	1026.9	-4	SSW	3	bc	73	55	7	8	-	-	2-3	2-3	4000
	Point of Ayre	1026.7	-2	S'W	4	bc	70	65	7	1	-	6	Tr	2-3	4000
13A	Tiree	1024.5	0	S'E	3	bc	65	85	8	1	-	6	Tr	4-6	4000
13B	Stornoway	1025.2	0	SSE	2	c	55	92	8	5	7	-	7-8	10	2500
15	Dalwhinnie	1025.4	-4	S	4	c	73	55	8	4	3	1	2-3	9	4000
	Aberdeen	1026.5	-2	S'E	3	bc	65	65	7	8	9	-	2-3	4-6	4000
	Wick	1026.7	+4	ESE	3	c	55	92	8	4	6	8	2-3	7-8	2500
16	Lerwick	1026.5	+10	W'S	3	c	55	86	8	5	7	1	4-6	7-8	1500
17	Blackpool Point	1023.1	-4	SW	2	bc	65	75	8	-	4	9	0	4-6	-
18	Malin Head	1024.0	-10	SSW	2	c	72	55	8	8	-	-	7-8	7-8	5700
	Aldergrove	1025.0	-6	SE	3	bc	73	65	7	2	-	-	4-6	4-6	2500
19	Birr Castle	1024.1	-4	S	3	bc	74	55	8	1	-	6	4-6	4-6	2500
20	Valentia Obsy. †	1022.7	-4	SE	4	bc	74	65	8	1	3	2	Tr	4-6	4000
	Roches Point	1024.5	-6	ESE	3	bc	65	85	8	5	-	5	1	2-3	4000

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

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)	1026.9	-2	ESE	4	b	70	55	8	-	-	-	0	0	-	0	*
	Croydon	1026.9	-4	E'N	3	b	68	65	8	1	-	-	Tr	Tr	4000	0	*
	S. Farnborough	1025.9	-2	ENE	4	b	72	55	8	1	-	-	Tr	Tr	4000	0	*
	Boscombe Down	1025.3	-2	SE'S	3	bc	71	55	7	5	-	-	2-3	2-3	4000	0	*
	Calshot (Soton.)	1025.6	-8	ESE	3	b	65	75	7	4	1	-	Tr	Tr	4000	0	2
	Lympne	1026.8	-6	NE	4	b	63	65	9	-	-	-	0	0	-	0	§ 2
	Manston	1027.1	-12	NE'E	3	b	60	75	8	-	-	-	0	0	-	0	*
2	Shoeburyness	1027.8	-6	ENE	2	b	62	75	8	-	-	-	0	0	-	0	*
	Felixstowe	1028.0	-6	E'N	3	b	61	75	8	-	-	-	0	0	-	0	1
	Gorleston	1028.3	-4	ESE	1	b	59	85	6	-	-	-	0	0	-	0	1
	Mildenhall	1026.9	-4	ESE	3	b	71	55	9	1	-	-	Tr	Tr	4000	0	*
	Cranwell	1027.4	-2	E	3	b	72	45	8	-	-	-	0	0	-	0	*
3	Birmingham	1025.9	-6	ESE	2	b	73	45	8	1	-	1	Tr	1	4000	0	*
	Upper Heyford	1025.7	-6	SE'E	3	b	72	55	8	4	-	-	1	1	4000	0	*
4	Ross-on-Wye	1024.8	-6	E	3	b	73	65	7	5	-	-	1	1	4000	0	*
5	Hartland Point	1028.8	-6	ESE	3	b	69	68	8	-	-	-	0	0	-	0	2
	Bristol	1024.9	0	SE	2	bc	73	65	7	4	3	-	2-3	4-6	4000	0	*
	Portland Bill	1024.9	-6	E	3	bc	58	85	8	5	-	-	4-6	4-6	4000	1	3
	Plymouth	1024.4	-4	E	3	b	66	65	8	-	-	-	0	0	-	0	2
	The Lizard	1023.6	-10	E'N	5	bc	61	85	8	4	-	-	2-3	2-3	2500	0	3
	Scilly (St. Mary's)	1023.2	-8	E	4	b	63	85	7	-	-	-	0	0	-	0	2
	Guernsey	1023.1	-8	ENE	3	b	61	86	7	-	-	-	0	0	-	0	2
6	Pembroke	1024.4	-10	SE'S	3	bc	66	65	7	2	4	-	2-3	2-3	2500	0	1
7	Holyhead	1025.0	-10	NNW	1	b	62	85	6	-	-	1	0	Tr	-	0	1
	Chester (Sealand)	1027.3	-4	SE	1	z	75	55	6	1	-	6	2-3	4-6	4000	0	*
8	Manchester	1025.4	-6	S'E	3	b	77	46	8	-	-	6	0	1	-	0	*
10	Spurn Head	1027.5	-4	SE	3	b	59	85	7	-	-	-	0	0	-	0	3
	Catterick	1025.6	-4	SSE	2	b	75	46	7	2	8	1	Tr	1	4000	0	*
	Tynemouth	1026.8	-8	ESE	2	bc	60	85	6	5	-	1	2-3	4-6	1500	0	0
11	St. Abbs Head	1026.0	-14	SE	3	c	62	75	8	5	2	-	7-8	7-8	2500	0	1
	Leuchars	1025.7	-6	ESE	3	c	66	75	8	7	3	5	Tr	7-8	4000	0	*
12	Renfrew (Abbotsinch)	1025.0	-4	SW'W	2	bc	73	55	6	-	-	3	0	2-3	-	0	*
	Eskdalemuir	1025.0	-6	WSW	2	bc	71	55	7	-	-	6	0	2-3	-	0	*
	Point of Ayre	1025.5	-8	ESE	2	bc	65	75	7	-	9	-	0	4-6	-	0	1
13A	Tiree	1022.8	-6	SE	3	c	61	75	6	7	3	8	2-3	7-8	4000	0	3
13B	Stornoway	1023.7	-14	SSE	3	c	60	85	8	5	4	7	Tr	10	2500	0	2
15	Dalwhinnie	1023.3	-12	S	6	c	70	65	8	4	6	1	4-6	7-8	4000	0	*
	Aberdeen	1026.2	-8	SE	3	c	60	75	7	2	9	-	Tr	7-8	4000	0	1
	Wick	1025.2	-12	SE	3	c	55	92	8	5	6	9	4-6	9	2500	0	2
16	Lerwick	1026.6	-4	S	3	c	54	85	8	5	7	-	4-6	7-8	1500	0	*
17	Blackpool Point	1021.1	-6	S'W	2	bc	70	65	8	-	4	9	0	4-6	-	0	1
18	Malin Head	1022.3	-8	S	2	c	71	65	8	5	-	-	2-3	7-8	5700	0	2
	Aldergrove	1023.9	-8	SSE	3	c	69	75	7	-	-	2	0	9	-	0	*
19	Birr Castle	1023.3	-6	S	3	c	72	55	8	5	-	5	2-3	7-8	2500	0	*
20	Valentia Obsy. †	1021.1	-8	SE'S	4	bc	72	55	7	1	4	2	Tr	4-6	4000	0	2
	Roches Point	1023.4	-10	ESE	4	bc	63	85	8	-	-	5	0	2-3	-	0	2

PAST 24 HOURS. — WEATHER.

District	Stations	7h.–13h. 3rd. (37)	13h.–18h. 3rd. (38)	18h. 3rd. to 1h. 4th (39)	1h.–7h. 4th. (40)
1	London (Kew)	bmzwby	by	bybc	bccw
	Croydon	bcmzbzb	bby	bbwmw	bcifofm
	S. Farnborough	bzcy	cby	byvbw	bfcmo
	Boscombe Down	byz	bzbcy	c	bw
	Calshot (Soton.)	bbc	bzbcy	bbmow	bwbmo
	Lympne	bcb	b	bw	bwmbcf
	Manston	b	b	boF	oF bcm
2	Shoeburyness	b	by	bv,c	comw
	Felixstowe	b	b	b,cmo	cmof
	Gorleston	bz	bz	boffe	offe
	Mildenhall	bvbcvy	bcbvy	bvybw	bwfgcmo
	Cranwell	bby	byb	bybmow	bmowff
3	Birmingham	b	b	b	b
	Upper Heyford	bzb	bc	b	bbmo
4	Ross-on-Wye	bzbby	bycbybyby	bbcb	bw
5	Hartland Point	b	yb	b	b
	Bristol	bbcy	bccybc	bcbmow	bw
	Portland Bill	nbc	bcbc	bcc	bcb
	Plymouth	bbcb	bzo	b	bzo
	The Lizard	bz	bc	bcw	bcb
	Scilly (St. Mary's)	bc	b	bw	b
	Guernsey	b	b	bw	bwzo
6	Pembroke	bz	bcz	cbcb	bcbzo
7	Holyhead	b	b	bmowb	bwmob
	Chester (Sealand)	bwmzy	bzoyb	zywmo	bmomw
8	Manchester	bmzby	by	bybzo	bmowbz
10	Spurn Head	bc	b		bcff
	Catterick	b	bymzby	bybcmo	fgbcmo
	Tynemouth	bc	bc	bc	bc
11	St. Abbs Head	bc	bcc	bccmo	cmo
	Leuchars	bcb	bbcybc	bccbcw	bccmow,mo
12	Renfrew (Abbotsinch)	bzcy	bccbcy	bcy zow	cffmo
	Eskdalemuir	b	bbc	bcd	cbcw
	Point of Ayre	bbc	bc	bcb	bbcz
13A	Tiree	bc	bbc	cbc	bc
13B	Stornoway	c	c	c	c
15	Dalwhinnie	c	c	c	c
	Aberdeen	bbc	bc	bcbbc	bccbc
	Wick	c	c	ctl	clc
16	Lerwick	cid	c	oiFc	cmo
17	Blackpool Point	bc	bc	bc	b
18	Malin Head	bcyc	c	cbc	cbc
	Aldergrove	bcbc	bczcz	cbccbw	bwc
19	Birr Castle	bcy	cy	bcb	cb
20	Valentia Obsy. †	cbc	bcycybcy	bcb	bbcb
	Roches Point	bc	bc	bcw	b

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

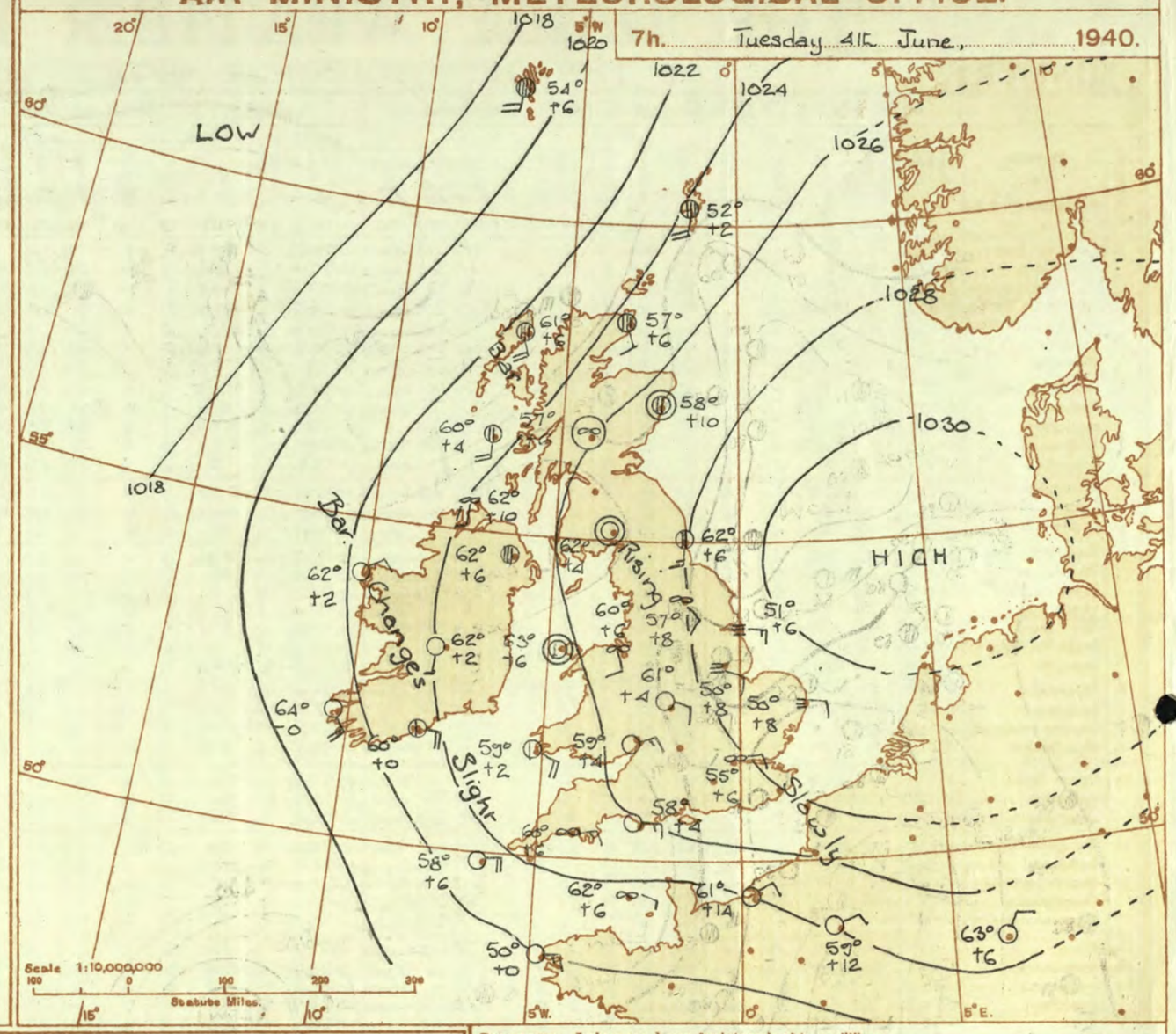
COLUMN 29—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 4th June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 4th June 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light to moderate southeast wind; fine and warm; some fog near East Coast in early morning.
5 S.W. England 6 South Wales ...	Moderate east to southeast wind; fine; warm.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light or moderate southeast to south wind; fine and warm; local fog near East Coast in early morning.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate south to southwest wind; fine or fair; warm.
17 N. W. Ireland 18 N. E. Ireland	Light southerly wind; fine; warm.
19 S. E. Ireland 20 S. W. Ireland	As 5 - 6.

GENERAL INFERENCE.

A large anticyclone covering the North Sea and the surrounding land areas is increasing slowly in intensity. Weather will be mainly fine and warm.

FURTHER OUTLOOK.

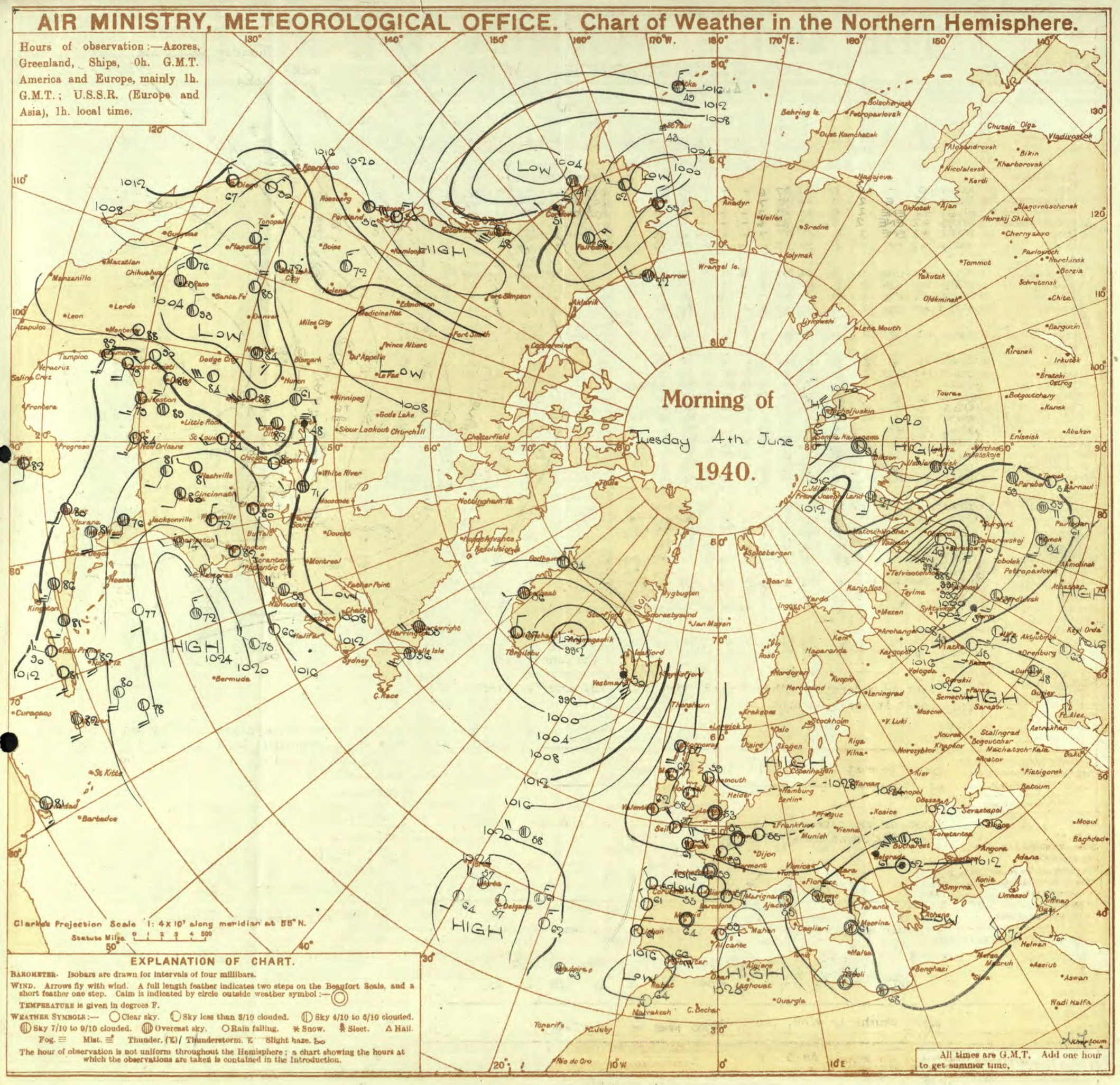
Fine and warm weather continuing

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.



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 4th June 1940.

No. 28,684

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

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	1026.9	0	–	0	b	53	97	6	–	–	–	0	0	–
	S. Farnborough	226	1026.9	+2	E	2	b	54	92	7	–	–	–	0	0	–
	Boscombe Down	417	1026.3	+2	ENE	2	b	55	85	7	–	–	–	0	0	–
	Calshot (Sthmtn.)	8	1025.9	+2	ENE	2	zo	57	85	6	–	–	–	0	0	–
	Lympne	346	1027.2	+2	ENE	3	b	49	97	7	–	–	–	0	0	–
	Manston	154	1027.4	+2	NE	1	F	50	97	1	–	–	–	10	10	<150
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1028.0	+2	NNE	3	zo	54	97	5	5	–	–	10	10	<150
	Gorleston	5	1028.5	+2	ESE	3	f	51	97	2	–	–	–	10	10	<150
	Mildenhall	19	1027.8	+2	E'N	2	b	49	97	7	–	7	–	0	Tr	–
	Cranwell	240	1028.0	+2	SSE	2	zo	52	97	5	–	–	1	0	Tr	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1027.3	+2	E	2	b	54	85	7	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024.3	+6	E	2	b	58	85	8	–	–	–	0	0	–
	Bristol	209	1026.2	+2	ESE	3	b	57	75	7	–	–	–	0	0	–
	Portland Bill	32	1025.1	+2	E	3	c	56	85	8	5	–	–	7-8	7-8	4000
	Plymouth	82	1024.4	0	E'S	3	b	59	75	7	–	–	–	0	0	–
	The Lizard	240	1023.5	0	E'N	4	bc	57	92	7	4	–	·	2-3	2-3	2500
	Scilly (St. Mary's)	163	1022.7	−4	E	4	b	57	97	6	–	–	–	0	0	–
	Guernsey	175	1023.6	0	E'N	1	b	56	92	7	–	–	–	0	0	–
6	Pembroke	142	1024.3	+2	ESE	3	b	57	85	8	–	1	–	0	1	–
7	Holyhead	26	1025.1	+2	S'E	1	b	58	85	7	5	4	1	1	1	5700
	Chester (Sealand)	16	1026.4	+4	SE'S	1	zo	58	85	5	–	–	1	0	1	–
8	Manchester	70	1026.9	+2	E'S	3	b	59	85	6	–	4	–	0	1	–
10	Spurn Head	29														
	Catterick	175	1027.8	+6	–	0	zo	57	92	6	–	–	8	0	4-6	–
	Tynemouth	108	1027.1	+4	SW	2	bc	59	85	6	5	–	–	4-6	4-6	1500
11	St. Abbs Head	280	1027.9	−2	W	4	c	64	65	6	5	2	–	4-6	7-8	2500
	Leuchars	36	1025.8	+2	–	0	c	56	92	7	–	–	6	0	7-8	–
12	Renfrew (Abbots I.)	19	1025.7	+2	–	0	cf-	54	97	3	5	3	6	1	7-8	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1025.7	0	S'W	2	b	58	92	7	–	4	–	0	1	–
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1023.7	0	SSW	4	c	57	85	7	5	4	7	Tr	10	2500
15	Dalwhirnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1023.6	−2	S	4	cl	53	92	7	5	1	7	4-6	10	1500
16	Lerwick	156	1026.1	−10	S	4	c	51	97	7	5	7	–	7-8	9+	800
17	Blacksod Point	18	1021.9	+4	S	3	bc	62	85	7	5	–	–	2-3	2-3	<150
18	Malin Head	84	1023.3	+4	–	0	bc	62	75	8	4	–	2	2-3	4-6	5700
	Aldergrove	268	1024.9	+2	SE	2	bc	57	85	7	–	4	1	0	2-3	–
19	Birr Castle	173	1024.1	+2	S	1	b	58	85	8	–	–	–	0	0	–
20	Valentia Obsy.	30	1022.0	+2	NE'E	4	b	62	75	7	–	–	1	0	1	–
	Roches Point	22	1023.4	0	E'S	4	bc	58	97	7	5	–	–	2-3	2-3	4000

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1028.3	+10	ENE	2	zo	56	85	5	5	–	–	10	10	1500	0	*
Croydon	1027.9	+6	E'N	2	zo	55	97	6	5	–	–	10	10	800	0	*
S. Farnborough	1027.8	+8	ENE	2	zo	50	97	5	5	–	–	10	10	220	0	*
Boscombe Down	1027.1	+6	E'N	2	zo	58	85	6	–	–	–	0	0	–	0	*
Calshot (Sthmtn.)	1026.2	+2	E'N	3	zo	62	85	6	–	–	–	0	0	–	0	§1
Lympne	1027.7	+4	NE'N	2	bc/f	57	97	5	5	–	1	2-3	2-3	<150	0	1
Manston	1028.1	+6	ENE	3	m	58	97	4	5	–	–	7-8	7-8	450	0	
Shoeburyness	1028.7	+2	ENE	2	m	57	97	4	5	–	–	10	10	220	1	*
Felixstowe	1029.2	+8	NE'E	2	m/f	54	97	4	5	–	–	10	10	220	0	0
Gorleston	1029.6	+8	E'S	2	F	50	97	1	–	–	–	10	10	<150	1	2
Mildenhall	1029.0	+10	ESE	2	zo	55	97	6	5	–	–	10	10	800	1	*
Cranwell	1028.7	+8	SE'E	2	f+	50	97	2	–	–	–	10	10	<150	0	
Birmingham	1027.8	+4	ESE	2	b	61	65	7	–	–	–	0	0	–	0	*
Upper Heyford	1027.9	+6	ENE	1	zo	56	85	6	–	–	–	0	0	–	1	*
Ross-on-Wye	1027.0	+4	ENE	3	b	59	75	7	–	–	–	0	0	–	0	*
Hartland Point	1024.3	−2	ENE	3	b	59	85	8	–	–	–	0	0	–	0	2
Bristol	1027.1	+8	ESE	2	b	59	75	7	–	–	–	0	0	–	0	*
Portland Bill	1025.3	+4	E	3	b	58	85	7	–	–	–	0	0	–	1	3
Plymouth	1024.6	+6	E'N	3	zo	60	75	6	–	–	–	0	0	–	0	1
The Lizard	1023.3	−4	E'N	4	b	59	92	7	–	–	–	0	0	–	0	2
Scilly (St. Mary's)	1022.8	+6	E	4	b	58	97	6	–	–	–	0	0	–	0	1
Guernsey	1023.5	+6	ESE	1	zo	62	75	6	–	–	–	0	0	–	0	2
Pembroke	1025.3	+2	SE'E	4	b	59	85	7	–	1	–	0	1	–	0	2
Holyhead	1025.9	+6	–	0	b	63	85	6	–	–	1	0	Tr	–	0	1*
Chester (Sealand)	1027.6	+6	SSE	2	zo	60	85	6	–	–	–	0	0	–	0	*
Manchester	1027.7	+4	ESE	2	b	63	75	7	–	4	–	0	Tr	–	0	
Spurn Head	1029.4	+6	E'S	3	f-	51	97	2	–	–	–	10	10	<150	0	2
Catterick	1028.7	+8	SE	2	zo	57	85	6	–	–	1	0	2-3	–	0	*
Tynemouth	1027.9	+6	S	3	bc	62	75	6	8	3	2	2-3	4-6	2500	0	1
St. Abbs Head	1026.4	+4	SW	3	c	66	75	7	5	6	7	4-6	7-8	2500	0	2
Leuchars	1026.7	+10	–	0	zo	60	85	6	–	7	8	0	7-8	–	0	*
Renfrew (Abbots I.)	1026.5	+6	–	0	zo	57	92	5	–	–	6	0	7-8	–	0	*
Eskdalemuir	1027.2	+4	–	0	bc	62	75	6	–	–	6	0	4-6	–	0	
Point of Ayre	1026.3	+2	S'E	4	bc	59	92	6	–	–	5	0	2-3	–	0	2
Tiree	1023.4	+4	S	4	bc	60	75	7	–	3	5	0	2-3	–	0	3
Stornoway	1023.4	+6	SSW	4	c	61	85	7	5	4	7	Tr	10	2500	0	6
Dalwhirnie	*	+4	SW	3	c	61	75	8	–	4	5	0	7-8	–	0	
Aberdeen	1026.3	+10	–	0	bc	58	85	6	–	–	8	0	4-6	–	0	1
Wick	1024.3	+6	SSE	2	c	57	85	7	5	3	7	2-3	9+	2500	0	1
Lerwick	1025.2	+2	S'W	4	c	52	97	6	5	7	–	7-8	9+	800	0	*
Blacksod Point	1022.2	+2	NE	2	b	62	85	7	2	–	–	0	0	–	0	1
Malin Head	1024.1	+10	S	1	zo	62	75	6	–	–	2	0	2-3	–	0	0
Aldergrove	1025.6	+6	–	0	c	62	85	7	–	–	2	0	7-8	–	0	*
Birr Castle	1024.3	+2	S	1	b	62	75	7	–	–	–	0	0	–	0	*
Valentia Obsy.	1021.4	0	SE	4	b	64	75	8	–	–	1	0	1	–	0	1
Roches Point	1022.7	0	E'S	4	b	60	85	8	·	–	5	0	1	–	0	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 3rd Hrs. (36)
London (Kew)	73	54	43	–	–	12.4
Croydon	73	51	40	–	–	13.1
S. Farnborough	76	48	42	–	–	14.5
Boscombe Down	76	50	47	–	–	13.9
Calshot (Sthmtn.)	67	53	47	–	–	14.9
Lympne	68	47	45	–	Tr	14.3
Manston	66	49	46	–	Tr	14.7
Shoeburyness	65	51	45	–	–	15.4
Felixstowe	64	51	48	–	–	15.0
Gorleston	66	49	48	–	–	12.3
Mildenhall	76	47	37	–	–	13.9
Cranwell	77	45	35	–	–	14.2
Birmingham	75	54	47	–*	–	14.4
Upper Heyford	75	49	40	–	–	*
Ross-on-Wye	77	51	42	–	–	13.3
Hartland Point	72	56	51	–	–	14.2
Bristol	78	50	39	–	–	12.5
Portland Bill	62	55	*	–	–	*
Plymouth	69	56	53	–	–	14.7
The Lizard	64	57	*	–	–	14.5
Scilly (St. Mary's)	67	56	*	–	–	14.3
Guernsey	64	54	48	–	–	14.0
Pembroke	66	54	*	–	–	13.2
Holyhead	72	56	49	–	–	13.5
Chester (Sealand)	78	57	47	–	–	13.6
Manchester	79	55	45	–	–	13.5
Spurn Head	65	49	*	–	–	14.2
Catterick	80	53	47	–	–	13.2
Tynemouth	67	52	53	–	–	*
St. Abbs Head	72	58	*	–	–	*
Leuchars	78	53	42	–	–	12.8
Renfrew (Abbots I.)	77	50	44	–	–	12.7
Eskdalemuir	75	(52)	42	–	–	11.4
Point of Ayre	74	56		–	–	13.6
Tiree	70	51	*	–	–	8.8
Stornoway	63	54	*	–	–	5.7
Dalwhirnie	75	51	43	–	–	7.6
Aberdeen	67	53	47	–	–	10.1
Wick	63	51	*	–	–	*
Lerwick	58	49	*	Tr	–	7.9
Blacksod Point	71	56	*	–	–	*
Malin Head	74	55	*	–	–	12.6
Aldergrove	74	52	52	–	–	10.9
Birr Castle	76	54	49	–	–	14.6
Valentia Obsy.	74	58	49	–	–	13.9
Roches Point	66	58	*	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.	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	bmzowy	by	ybccw	73	54	43	–	–	12.4	*	*	6
Croydon	217	bcmobzo	bby	bwmdm	73	51	40	–	–	13.1	*	*	6
Greenwich (Royal Observatory)	149	by	by	bc	72	52	44	–	–	12.5	53	77	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	73	53	51	–	–	12.5	58	80	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	73	53	51	–	–	*	59	77	*
Camden Square	110	b	b	*	77	54	47	–	–	*	*	78	*
Kensington	80	bc	bcb	*	75	54	48	–	–	*	58	75	*
Hampstead Observatory	450	bc	bc	bm	73	50	44	–	–	*	*	92	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0.2	7-9h 3rd	<0.1	12-20h 3rd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 3rd June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 4th June 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	NE	2	b	66	1024.3	NE	2	b	59	*	52	*	–
Brussels														
Berlin														
Zürich														
Rome						1013.0	NNE	4	c	64	*	*		–

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at

0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1½ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 5th June, 1940.

No. 28685

SECRET

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	1027.3	-6	ESE	4	z_o	71	55	6	1	-	-	Tr	Tr	4000
	Croydon	1027.2	-2	E	3	b	69	65	7	1	4	-	Tr	Tr	2500
	S. Farnborough	1026.2	-12	E	2	c	74	55	7	4	-	-	7-8	7-8	2500
	Boscombe Down	1026.5	-8	E	3	z_o	75	45	7	1	-	-	2-3	2-3	2500
	Calshot (Soton.)	1025.9	-6	SE'E	4	z_o	68	75	7	1	-	1	Tr	Tr	4000
	Lympne	1027.2	-6	NE	4	b	65	75	8	-	-	1	0	Tr	-
	Manston	1027.9	-8	E'N	4	z_o	63	75	6	5	-	1	1	1	450
2	Shoeburyness	1028.7	-4	ENE	3	z_o	59	85	6	5	-	-	7-8	7-8	1500
	Felixstowe	1029.1	-4	ENE	3	z_o	58	85	6	5	-	-	10	10	450
	Gorleston	1029.9	0	ENE	2	c	53	92	5	5	-	-	10	10	1500
	Mildenhall	1028.3	-8	ESE	3	b	70	55	8	1	4	1	Tr	1	4000
	Cranwell	1028.4	-8	SE	2	b	71	55	7	1	-	1	Tr	Tr	2500
3	Birmingham	1027.0	-4	ESE	2	b	71	55	8	1	-	-	Tr	Tr	4000
	Upper Heyford	1027.4	-8	ENE	3	bc	72	65	7	1	-	-	4-6	4-6	2500
4	Ross-on-Wye	1025.5	-8	E'S	3	b	75	56	7	1	-	-	Tr	Tr	4000
5	Hartland Point	1023.8	-6	E	3	b	72	65	8	1	-	-	Tr	Tr	4000
	Bristol	1025.6	-10	E'S	2	bc	75	55	8	1	-	-	2-3	2-3	4000
	Portland Bill	1025.0	-4	E	4	b	59	85	7	-	-	-	0	0	-
	Plymouth	1023.8	-6	E	3	z_o	70	75	7	-	-	-	0	0	-
	The Lizard	1023.3	0	E'N	5	b	63	85	6	-	-	-	0	0	-
	Scilly (St. Mary's)	1022.5	-2	E	4	b	67	75	6	-	-	-	0	0	-
	Guernsey	1022.8	-4	ENE	3	b	62	85	7	-	-	-	0	0	-
6	Pembroke	1024.5	-8	SE	5	b	67	65	7	-	-	-	0	0	-
7	Holyhead	1025.7	-4	N	1	b	67	75	8	-	-	-	0	0	-
	Chester (Sealand)	1026.4	-8	SE'S	3	z_o	74	55	6	-	-	-	0	0	-
8	Manchester	1026.6	-10	ESE	3	b	78	55	7	-	-	-	0	0	-
10	Spurn Head	1029.4	+2	E'S	3	F+	55	85	1	-	-	-	10	10	220
	Catterick	1027.6	-10	S	3	b	74	45	8	-	-	-	0	0	-
	Tynemouth	1027.8	-4	SSE	4	bc	60	75	7	2	-	2	2-3	4-6	2500
11	St. Abbs Head	1026.4	-4	SE	4	bc	65	65	6	5	4	2	1	2-3	2500
	Leuchars	1026.2	-6	ESE	2	z_o	78	55	6	-	8	1	0	1	-
12	Renfrew (Abbotsl.)	1025.6	-6	SSW	3	bc	79	45	7	1	-	-	2-3	2-3	4000
	Eskdalemuir	1025.6	-6	SSE	2	b	75	35	8	1	-	1	Tr	Tr	4000
	Point of Ayre	1026.5	0	SSW	3	b	73	55	8	-	4	-	0	Tr	-
13A	Tiree	1024.1	0	SSE	3	b	69	65	7	-	-	5	0	1	-
13B	Stornoway	1023.9	+2	SE	3	c	62	75	7	5	7	2	2-3	9	4000
15	Dalwhinnie	1025.1	-2	S	5	c	74	55	8	4	6	8	2-3	9+	4000
	Aberdeen	1026.3	0	S	2	b	73	55	7	-	-	1	0	1	-
	Wick	1024.4	0	S	3	c	61	85	6	5	8	9	4-6	9	2500
16	Lerwick	1025.0	-6	S'W	1	c	57	85	7	5	7	-	4-6	9	1500
17	Blacksod Point	1022.5	0	WSW	1	bc	70	65	7	-	4	-	0	2-3	-
18	Malin Head	1023.2	-6	S	4	z_o	75	55	7	2	-	-	4-6	4-6	5700
	Aldergrove	1024.6	-6	SSE	4	b	74	55	7	1	-	1	Tr	Tr	4000
19	Birr Castle	1023.4	-6	S	2	c	72	65	7	8	-	-	7-8	7-8	2500
20	Valentia Obsy. †	1021.4	+4	SE'S	4	bc	75	65	8	1	3	-	2-3	2-3	4000
	Roches Point	1023.0	0	E'S	4	bc	64	85	8	1	-	-	2-3	2-3	4000

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

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)	1026.0	-2	E	3	b	71	45	8	-	-	1	0	Tr	-	0	*
	Croydon	1025.7	-6	ENE	3	b	67	65	8	-	4	-	0	Tr	-	0	*
	S. Farnborough	1028.4	-2	ENE	3	b	71	55	7	-	-	-	0	0	-	0	*
	Boscombe Down	1024.3	-2	ENE	3	b	74	45	7	-	-	-	0	0	-	0	*
	Calshot (Soton.)	1024.3	-10	SE'E	3	b	66	55	7	-	-	-	0	0	-	0	2
	Lympne	1025.9	-4	NE'N	4	b	62	75	8	-	-	1	0	Tr	-	0	§2
	Manston	1026.7	-12	NE	5	z_o	55	92	5	5	-	-	7-8	7-8	<150	0	*
2	Shoeburyness	1027.5	-2	NE	4	b	59	85	8	-	4	-	0	Tr	-	0	*
	Felixstowe	1027.5	-8	ENE	3	bjf	56	86	7	5	-	3	Tr	Tr	<150	0	1
	Gorleston	1028.5	-4	NE	2	f	58	92	2	-	-	-	0	0	-	0	2
	Mildenhall	1027.1	-2	E	4	bc	72	55	8	-	-	4	0	2-3	-	0	*
	Cranwell	1027.2	-6	E	2	b	70	65	8	-	-	1	0	Tr	-	0	*
3	Birmingham	1025.8	-6	SE	2	b	73	45	8	-	-	-	0	0	-	0	*
	Upper Heyford	1025.5	-8	E'S	3	b	72	55	7	-	-	-	0	0	-	0	*
4	Ross-on-Wye	1024.5	-6	E	3	b	74	55	7	-	-	-	0	0	-	0	*
5	Hartland Point	1022.2	-8	E	3	b	71	65	7	-	-	-	0	0	-	0	2
	Bristol	1024.3	-2	E	3	b	76	55	7	-	-	-	0	0	-	0	*
	Portland Bill	1023.9	-8	E	4	b	59	85	7	-	-	-	0	0	-	1	3
	Plymouth	1022.6	-6	E	4	z_o	68	55	7	-	-	-	0	0	-	0	2
	The Lizard	1021.8	-6	E'N	5	bc	62	85	7	4	-	-	2-3	2-3	4000	0	3
	Scilly (St. Mary's)	1021.2	-8	E	5	b	64	75	6	-	-	-	0	0	-	0	3
	Guernsey	1021.6	-6	NE'E	3	b	63	85	7	-	-	-	0	0	-	0	2
6	Pembroke	1022.7	-6	SE'S	4	b	67	75	6	-	-	-	0	0	-	0	1
7	Holyhead	1024.3	-4	NW'W	2	b	64	75	7	-	-	-	0	0	-	0	0
	Chester (Sealand)	1025.1	-2	ESE	3	z_o	75	55	6	-	-	-	0	0	-	0	*
8	Manchester	1025.4	-4	SE'E	3	b	77	45	8	-	-	-	0	0	-	0	*
10	Spurn Head	1028.4	-2	E	3	F	51	97	1	-	-	-	10	10	<150	0	2
	Catterick	1026.6	-6	SSE	3	b	73	45	8	-	-	1	0	Tr	-	0	*
	Tynemouth	1026.8	-6	SSE	4	bc	57	75	8	5	4	-	2-3	4-6	2500	0	2
11	St. Abbs Head	1025.3	-2	SE	4	bc	62	65	8	5	4	-	2-3	2-3	2500	0	2
	Leuchars	1024.8	-6	SE	1	b	72	75	7	-	-	1	0	Tr	-	0	*
12	Renfrew (Abbotsl.)	1025.0	-2	W	1	b	76	55	8	-	4	-	0	1	-	0	*
	Eskdalemuir	1024.5	-2	S'W	3	b	74	45	7	-	-	-	0	0	-	0	*
	Point of Ayre	1025.4	0	N'W	1	b	67	75	8	-	-	-	0	0	-	0	0
13A	Tiree	1023.2	-2	S'E	4	b	65	76	7	-	3	5	0	1	-	0	3
13B	Stornoway	1023.8	-4	SW	1	c	67	65	7	2	9	4	1	7-8	4000	0	1
15	Dalwhinnie	1023.1	-10	S	3	bc	74	55	8	4	6	1	2-3	4-6	4000	0	*
	Aberdeen	1025.3	-6	SSW	4	b	67	65	7	-	-	1	0	1	-	0	1
	Wick	1023.6	-6	N	2	bc	68	75	6	5	4	9	4-6	4-6	2500	0	1
16	Lerwick	1024.2	-4	S	2	c	58	85	7	5	3	9	4-6	7-8	1500	0	*
17	Blacksod Point	1021.9	-2	N	1	b	71	65	7	2	-	-	1	1	2500	0	0
18	Malin Head	1022.7	+2	S	4	bc	73	55	8	2	-	1	2-3	4-6	5700	0	2
	Aldergrove	1024.1	-6	SE	3	b	71	65	7	-	-	-	0	0	-	0	*
19	Birr Castle	1023.1	-2	S	2	bc	73	65	7	1	-	8	2-3	4-6	2500	0	*
20	Valentia Obsy. †	1021.2	+2	SE'S	4	b	73	65	7	1	-	1	Tr	Tr	4000	0	2
	Roches Point	1022.6	-4	E'S	4	b	64	85	8	-	-	-	0	0	-	0	3

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 4th (37)	Weather. 13h.—18h. 4th (38)	Weather. 18h.—1h. 4th 5th (39)	Weather. 1h.—7h. 5th (40)
1	London (Kew)	cbcbz$_o$y	bz$_o$yby	bybz$_o$	b,cvcm$_o$w
	Croydon	cm,bcm,b b	bbc	bbc	bccm$_o$
	S. Farnborough	abbcy	bcby	bywm$_o$	bwcm$_o$
	Boscombe Down	bm,bcz$_o$	byz$_o$b	b	b,bm$_o$w
	Calshot (Soton.)	bz$_o$	bz$_o$b	bbm$_o$	bm$_o$bwb
	Lympne	bm,b	b	bbebw	bwb
	Manston	bcm$_o$cm,bm$_o$bz$_o$bcm$_o$	bcm$_o$bm$_o$	bm$_o$bcm$_o$	
2	Shoeburyness	ocm$_o$	cm,bcb	b,c	cw
	Felixstowe	om	bcm,jfbjf	bjfbw	bwcm
	Gorleston	affcz$_o$	coff	obc ffe	bccfb
	Mildenhall	cm,by	by	byb	bfgm$_o$cbc
	Cranwell	cf,bcb	by	bybw-f	bF,oF,b
3	Birmingham	b	b	b	bz
	Upper Heyford	cmbcm,bc	bcb	b	bw
4	Ross-on-Wye	b	by	b	bw
5	Hartland Point	b	by	b	b
	Bristol	by	by	bybz$_o$w	bm$_o$bw
	Portland Bill	b	bcb	bc	bcb
	Plymouth	bz$_o$	by	bybz$_o$	bm$_o$
	The Lizard	bcb	bbc	bc	bcc
	Scilly (St. Mary's)	b	b	b	b
	Guernsey	bz$_o$	b	bw	bw
6	Pembroke	bz$_o$	bz$_o$	bz$_o$	bcz$_o$
7	Holyhead	bm,b	b	bwb	bwb
	Chester (Sealand)	bm,z$_o$	bz$_o$y	bz$_o$ym$_o$w	bm$_o$z$_o$w
8	Manchester	by	by	byb	bz$_o$by
10	Spurn Head	ff	Ff	bw	Ffcw
	Catterick	bcbyz$_o$	by	byz$_o$bw	bwfgb
	Tynemouth	bc	bc	bc	bc
11	St. Abbs Head	bcm$_o$	m,bc	bc	bcbz$_o$
	Leuchars	bcbm$_o$y	bm$_o$yc	bbw	bm$_o$wbm$_o$
12	Renfrew (Abbotsl.)	bcm,z$_o$y	bc	bybfgf	bffwm
	Eskdalemuir	bcby	by	bfgw	bfgwb
	Point of Ayre	b	b	b	b
13A	Tiree	b	b	b	b
13B	Stornoway	c	c	co	cz$_o$
15	Dalwhinnie	c	c	•	b
	Aberdeen	bcby	byb	b	bbwz$_o$
	Wick	cz$_o$	cbcz$_o$	bccz$_o$	cbcz$_o$
16	Lerwick	c	c	cm$_o$	cm$_o$
17	Blacksod Point	bc	bc	bc	bc
18	Malin Head	bc	cybc	bc	bbz$_o$zb
	Aldergrove	cbcz,b	byb	bbw	bwb
19	Birr Castle	bbcc	bc	b	b
20	Valentia Obsy. †	bc	bcbyb	bbcb	bbccb
	Roches Point	bc	b	b	b

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

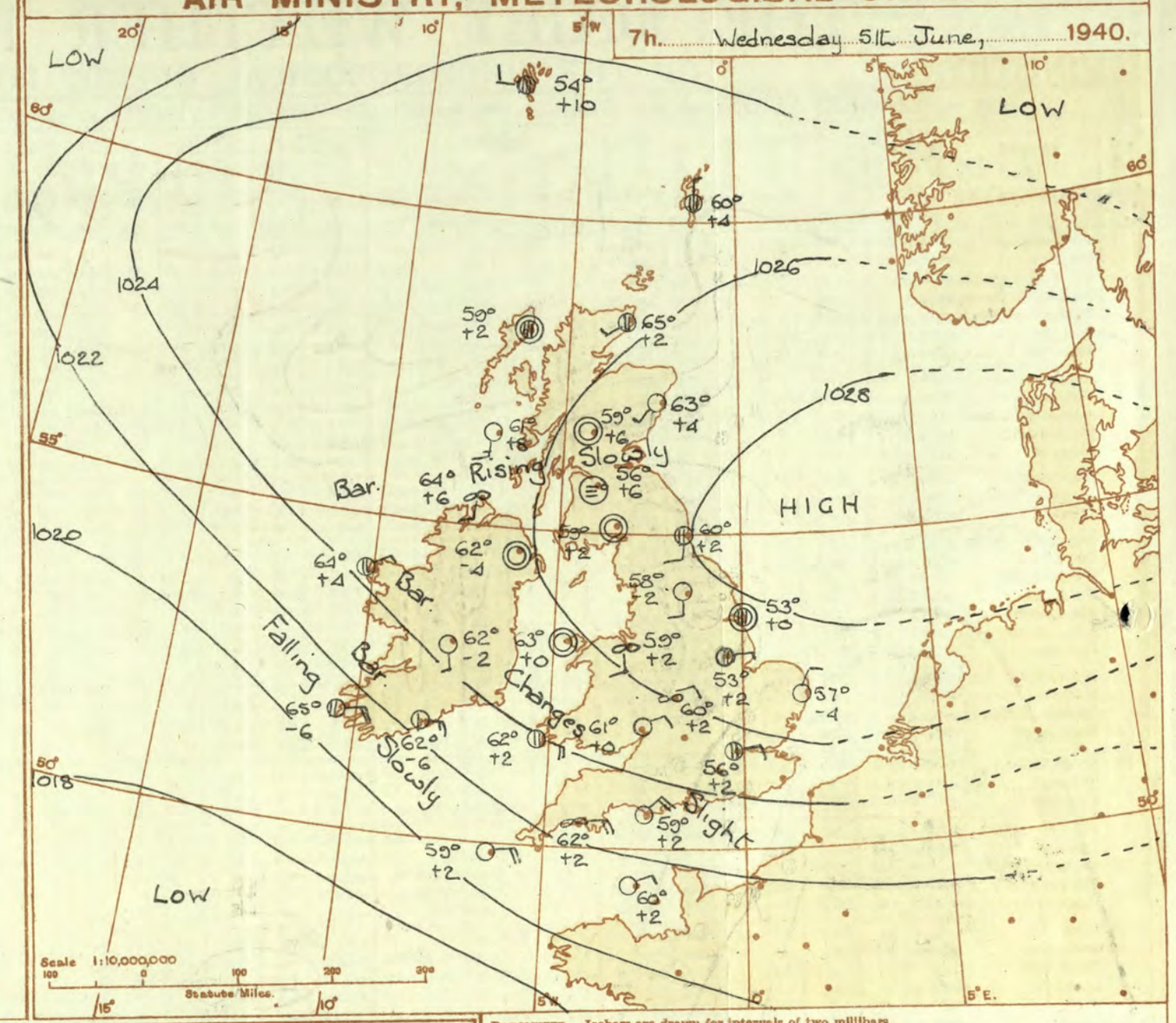
COLUMN 29—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 5th June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 5th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light or moderate east or northeast wind; fine; local morning fog or low cloud chiefly near East Coast; warm.
4 W. Midlands ...	Light east wind; fine; warm.
5 S.W. England 6 South Wales ...	Moderate or fresh east wind; fine; warm.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	As 4.
10 N.E. England	Light east or southeast wind, fine; local coast fog; warm inland.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light southerly or variable wind; fine; local fog later near East Coast; very warm; cooler later near East Coast.
17 N. W. Ireland 18 N. E. Ireland	As 4.
19 S. E. Ireland 20 S. W. Ireland	As 5 - 6.

GENERAL INFERENCE.

A large anticyclone over the North Sea is spreading northwards. A shallow depression over the Biscay has moved slightly north and has become less deep, but it may affect the extreme southwest of the country after a day or two. Apart from this, settled fine weather will continue with local fog on the East Coast.

FURTHER OUTLOOK.

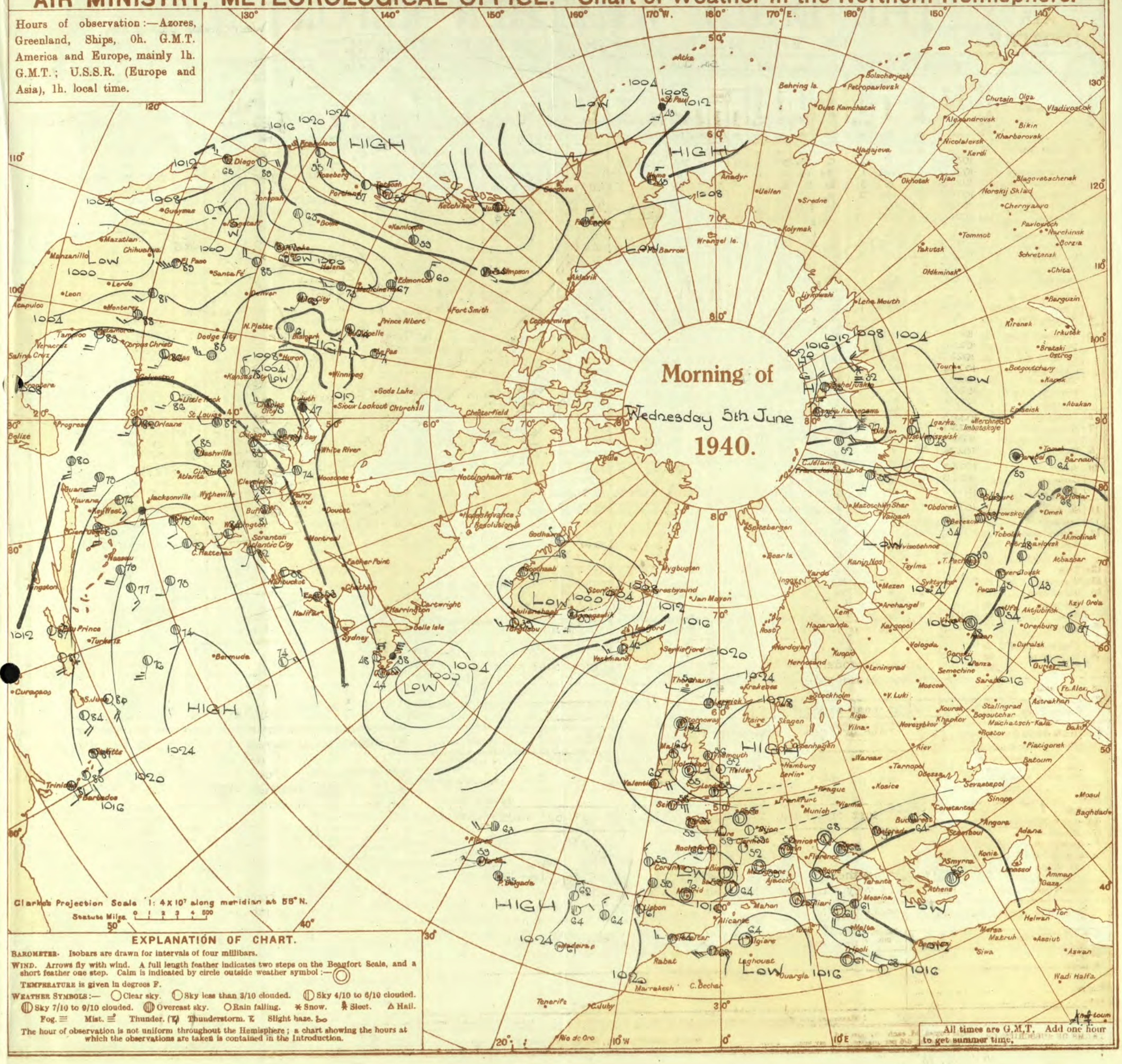
Mainly fine but a chance of thundery rains in the extreme Southwest.

Forecasts issued at 0950 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 5th June, 1940.

No. 28685

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

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	1026·2	−2	E	2	c	55	97	6	5	-	-	7-8	7-8	800
	S. Farnborough	226	1026·2	+2	NE	1	2.	55	92	6	-	-	-	0	0	-
	Boscombe Down	417	1025·6	+2	E	3	b	55	85	7	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1024·7	0	NE	2	2.	59	85	6	-	-	-	0	0	-
	Lympne ...	346	1026·0	−2	NE	4	b	53	92	7	-	-	-	0	0	-
	Manston ...	154	1026·2	−6	ENE	4	2.	54	92	6	5	-	-	Tr	Tr	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1027·3	−4	ENE	4	b	51	97	7	-	-	-	0	0	-
	Gorleston ...	5	1028·1	−2	NE	3	bcf-	50	97	3	5	-	-	4-6	4-6	1500
	Mildenhall ...	19	1027·5	−2	E'N	2	b	49	97	8	-	-	-	0	0	-
	Cranwell ...	240	1028·0	0	E'S	1	bF+	48	97	1	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026·6	+2	ENE	2	b	55	85	7	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1023·2	+10	NE	3	b	59	85	8	-	-	1	0	Tr	-
	Bristol ...	209	1025·6	+2	E	1	2.	56	85	6	-	-	-	0	0	-
	Portland Bill ...	32	1023·3	−4	E	4	bc	57	85	8	5	-	-	2-3	2-3	4000
	Plymouth ...	82	1023·1	−2	E'N	4	2.	61	85	6	-	-	-	0	0	-
	The Lizard ...	240	1022·1	−6	E'N	5	bc	58	92	7	4	-	-	2-3	2-3	4000
	Scilly (St. Mary's)	163	1020·9	−6	E	5	b	58	97	6	-	-	-	0	0	-
	Guernsey ...	175	1022·2	0	E'N	2	b	57	92	7	-	-	-	0	0	-
6	Pembroke ...	142	1024·3	+4	E'S	3	b	60	85	6	-	-	-	0	0	-
7	Holyhead ...	26	1025·2	+2	-	0	b	55	92	7	-	-	-	0	0	-
	Chester (Sealand)	16	1026·8	+8	ESE	1	2.	59	85	6	-	-	-	0	0	-
8	Manchester ...	70	1027·4	+8	E	3	b	61	75	7	-	-	-	0	0	-
10	Spurn Head ...	29	1028·9	0	E	1	b	52	97	7	-	-	-	0	0	-
	Catterick ...	175	1028·9	+6	-	0	b	51	97	7	-	-	-	0	0	-
	Tynemouth ...	108	1028·0	+4	S	3	bc	56	75	6	5	-	-	2-3	2-3	2500
11	St. Abbs Head	280	1025·2	0	WSW	4	bc	64	65	8	5	-	-	2-3	2-3	2500
	Leuchars ...	36	1026·2	+6	SW	1	b	55	92	7	-	-	1	0	Tr	-
12	Renfrew (Abbots I.)	19	1026·7	+10	-	0	bf+	52	97	3	-	-	-	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1026·3	+4	SSE	3	b	57	92	7	-	-	-	0	0	-
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1024·9	+8	-	0	c	54	92	6	5	4	6	Tr	7-8	4000
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1025·1	+6	NW	1	c	57	92	6	5	7	1	4-6	9	1500
16	Lerwick ...	156	1025·3	+4	NNE	1	c	57	92	6	5	7	-	4-6	9	800
17	Blacksod Point	18	1023·4	+6	-	0	b	59	92	7	3	-	-	1	1	1500
18	Malin Head ...	84	1025·0	+6	S	2	bc	60	85	8	-	3	-	0	2-3	-
	Aldergrove ...	268	1026·0	+8	-	0	b	55	85	7	-	-	-	0	0	-
19	Birr Castle ...	173	1024·2	+4	S	1	b	57	85	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1022·2	+2	E'N	4	b	60	85	7	5	-	-	1	1	4000
	Roches Point	22	1023·2	+2	E	4	b	59	85	8	-	-	5	0	1	-

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

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)	1026·6	+4	NE'E	3	2.	55	85	6	5	-	-	4-6	4-6	2500	0	*
	Croydon ...	1026·4	+2	E'N	2	bc	56	85	7	5	-	-	4-6	4-6	1500	0	*
	S. Farnborough	1026·0	+2	NE'E	2	2.	55	92	6	5	-	-	9+	9+	800	0	*
	Boscombe Down	1025·1	−2	ENE	3	2.	59	75	6	-	-	-	0	0	-	0	*
	Calshot (Sthmtn.)	1024·5	−2	ENE	2	b	65	75	8	-	-	-	0	0	-	0	1
	Lympne ...	1025·3	−2	NE'N	3	b	57	85	7	5	-	-	1	1	450	0	2
	Manston ...	1025·8	+4	NE'E	4	2.	58	85	6	5	3	-	2-3	2-3	220	0	*
2	Shoeburyness ...	1026·7	+2	ENE	3	c	58	85	8	5	-	-	7-8	7-8	800	0	*
	Felixstowe ...	1026·8	−4	ENE	3	b	58	85	7	-	-	1	0	Tr	-	0	2
	Gorleston ...	1027·6	−4	NE'N	2	b	57	85	7	-	4	-	0	Tr	-	0	1
	Mildenhall ...	1027·6	0	ENE	2	bc	54	85	8	7	-	-	4-6	4-6	1500	1	*
	Cranwell ...	1028·1	+2	E	1	bc	53	92	8	5	-	-	2-3	2-3	220	0	*
3	Birmingham ...	1027·3	+2	ENE	2	2.	60	65	6	-	-	-	0	0	-	0	*
	Upper Heyford	1026·7	−2	NE	2	b	57	65	8	-	-	1	0	Tr	-	0	*
4	Ross-on-Wye	1026·3	0	NE'E	2	b	61	75	8	-	-	-	0	0	-	0	*
5	Hartland Point	1023·0	+10	ENE	3	b	61	85	8	-	-	-	0	0	-	0	2
	Bristol ...	1025·8	0	ENE	2	b	58	85	8	-	-	-	0	0	-	0	*
	Portland Bill ...	1023·6	+2	NE	4	b	59	85	8	-	-	-	0	0	-	1	3
	Plymouth ...	1023·1	+2	E'N	4	2.	62	85	6	5	-	-	Tr	Tr	1500	0	2
	The Lizard ...	1022·0	−2	ENE	5	c	58	97	7	8	-	-	7-8	7-8	1500	0	3
	Scilly (St. Mary's)	1020·8	+2	E'N	4	b	55	97	6	-	-	-	0	0	-	0	3
	Guernsey ...	1021·9	+2	ENE	1	b	60	85	6	-	-	-	0	0	-	0	2
6	Pembroke ...	1024·6	+2	SE'E	4	bc	62	75	7	5	-	-	2-3	2-3	2500	0	2
7	Holyhead ...	1025·1	0	-	0	b	63	97	7	-	-	-	0	0	-	0	0
	Chester (Sealand)	1027·0	+2	SSE	2	2.	59	75	6	-	-	-	0	0	-	0	*
8	Manchester ...	1027·6	0	ESE	2	b	65	55	7	-	4	-	0	Tr	-	0	*
10	Spurn Head ...	1028·5	0	-	0	c	53	85	7	2	-	-	7-8	7-8	1500	0	1
	Catterick ...	1029·0	−2	S	2	b	58	85	8	-	-	1	0	Tr	-	0	*
	Tynemouth ...	1028·0	+2	S	2	bc	60	75	6	5	-	-	2-3	2-3	1500	0	1
11	St. Abbs Head	1027·2	+6	SSW	2	b	66	65	8	-	-	-	0	0	-	0	1
	Leuchars ...	1027·1	+10	-	0	2.	64	75	6	-	-	-	0	0	-	0	*
12	Renfrew (Abbots I.)	1027·4	+6	-	0	m	56	92	4	-	-	-	0	0	-	0	*
	Eskdalemuir ...	1027·6	+2	-	0	b	59	85	7	-	-	-	0	0	-	0	*
	Point of Ayre ...	1026·9	+4	S'E	3	b	62	85	7	-	-	-	0	0	-	0	1
13A	Tiree ...	1025·1	+8	S	3	b	61	85	7	1	-	5	0	Tr	-	0	2
13B	Stornoway ...	1025·7	+2	-	0	c	59	85	6	-	4	6	0	7-8	-	0	0
15	Dalwhirnie ...	1027·7	+6	-	0	b	59	75	8	-	-	-	0	0	-	0	*
	Aberdeen ...	1026·0	+4	SW'S	1	b	63	75	6	-	-	-	0	0	-	0	1
	Wick ...	1025·3	+2	SW	1	bc	65	75	6	1	4	-	2-3	4-6	1500	0	1
16	Lerwick ...	1025·5	+4	N	1	c	60	85	6	5	7	-	7-8	9+	800	0	*
17	Blacksod Point	1024·0	+4	NE	1	b	64	85	7	-	-	2	0	4-6	-	0	1
18	Malin Head ...	1025·0	+6	S	2	2.	64	75	7	-	-	-	0	0	-	0	0
	Aldergrove ...	1025·8	−4	-	0	b	62	85	7	-	-	-	0	0	-	0	*
19	Birr Castle ...	1024·2	−2	SSE	1	b	62	85	7	-	-	-	0	0	-	0	*
20	Valentia Obsy.	1021·3	−6	E'N	4	bc	65	75	7	-	-	2	0	4-6	-	0	1
	Roches Point	1022·2	−6	E	3	b	62	85	8	-	-	1	0	1	-	0	3

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 4th. Hrs. (36)
1	London (Kew)	71	54	47	-	-	12·0
	Croydon ...	71	53	48	-	-	11·4
	S. Farnborough	76	53	50	-	-	11·8
	Boscombe Down	78	52	50	-	-	14·7
	Calshot (Sthmtn.)	69	55	49	-	-	14·9
	Lympne ...	68	51	48	-	-	13·6
	Manston ...	63	52	45	-	-	11·7
2	Shoeburyness ...	63	49	43	-	-	5·7
	Felixstowe ...	58	50	48	-	-	5·8
	Gorleston ...	54	50	49	-	-	3·0
	Mildenhall ...	74	43	35	-	-	11·8
	Cranwell ...	74	46	45	-	-	11·8
3	Birmingham ...	74	53	45	*	-	15·0
	Upper Heyford	75	49	42	-	-	*
4	Ross-on-Wye	76	52	42	-	-	15·4
5	Hartland Point	72	58	54	-	-	14·3
	Bristol ...	78	50	40	-	-	14·7
	Portland Bill ...	62	55	*	-	-	*
	Plymouth ...	71	59	55	-	-	14·4
	The Lizard ...	63	56	*	-	-	14·1
	Scilly (St. Mary's)	67	57	*	-	-	13·6
	Guernsey ...	66	55	50	-	-	14·7
6	Pembroke ...	70	56	*	-	-	13·8
7	Holyhead ...	72	54	43	-	-	14·9
	Chester (Sealand)	78	53	45	-	-	15·0
8	Manchester ...	80	54	43	-	-	14·6
10	Spurn Head ...	55	48	*	-	Tr	1·5
	Catterick ...	77	47	40	-	-	14·6
	Tynemouth ...	63	54	49	-	-	*
11	St. Abbs Head	74	58	*	-	-	*
	Leuchars ...	79	53	40	-	-	12·8
12	Renfrew (Abbots I.)	80	47	43	-	-	12·5
	Eskdalemuir ...	77	46	39	-	-	13·0
	Point of Ayre ...	74	53	*	-	-	14·3
13A	Tiree ...	71	54	*	-	-	13·5
13B	Stornoway ...	68	52	*	-	-	6·8
15	Dalwhirnie ...	76	40	33	-	-	13·3
	Aberdeen ...	74	50	43	-	-	12·5
	Wick ...	71	52	*	-	-	*
16	Lerwick ...	61	53	*	-	-	11·0
17	Blacksod Point	71	56	*	-	-	*
18	Malin Head ...	78	56	*	-	-	13·8
	Aldergrove ...	75	52	47	-	-	14·3
19	Birr Castle ...	75	52	48	-	-	14·6
20	Valentia Obsy.	76	53	52	-	-	14·1
	Roches Point	66	57	*	-	-	*

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	cbcbzy	bz. yb	bcvm.w	71	54	47	-	-	12·0	*	*	6
CROYDON ...	217	cm. bc	b	bccm.	71	53	48	-	-	11·4	*	*	7
GREENWICH (Royal Observatory) ...	149	cb	by	bcb	70	50	43	-	-	10·9	59	67	7
CITY (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	71	53	50	-	-		63	71	*
REGENTS PK. (Botanic Gardens)‡ ...	168	*	*	*	73	51	48	-	-		51	73	*
CAMDEN SQUARE ...	110	b	b	*	75	52	45	-	-	*	*	70	*
KENSINGTON ...	80	bc	bc	*	73	52	43	-	-		55	65	*
HAMPSTEAD OBSERVATORY ...	450	bc	b	bc	70	49	47	-	-		*	77	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·1	14-24h	<0·1	11-13h
-	4th		4th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 4th. June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 5th. June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
PARIS ...														
BRUSSELS ...														
BERLIN ...														
ZÜRICH ...														
ROME ...														

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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AIR MINISTRY.

SECRET

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 6th. June, 1940.

No. 28686

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1024·9	-10	E'N	4	b	72	35	7	-	-	-	0	0	-
	Croydon	1024·6	-8	ENE	4	b	72	45	8	-	-	-	0	0	-
	S. Farnborough	1023·8	-12	NE	3	b	75	35	8	-	-	1	0	1	-
	Boscombe Down	1023·3	-14	NE'E	3	z₀	74	35	7	-	-	-	0	0	-
	Calshot (Soton.)	1023·3	-8	SE	4	b	68	75	8	-	-	1	0	Tr	-
	Lympne	1024·1	-8	NE'N	4	b	71	45	8	-	4	1	0	1	-
	Manston	1024·6	-10	NE	4	b	66	65	7	-	-	1	0	1	-
2	Shoeburyness	1025·5	-6	ENE	2	b	66	65	8	-	-	-	0	0	-
	Felixstowe	1026·3	-6	ENE	4	b	66	65	8	-	-	-	0	0	-
	Gorleston	1027·4	-2	NE'N	3	b	59	75	7	-	-	-	0	0	-
	Mildenhall	1025·8	-10	E'N	5	b	75	45	9	-	-	-	0	0	-
	Cranwell	1027·0	-8	E	3	b	75	45	8	-	-	-	0	0	-
3	Birmingham	1025·2	-8	ENE	3	b	74	45	8	-	-	-	0	0	-
	Upper Heyford	1024·8	-14	E'N	4	b	73	55	8	1	-	1	Tr	Tr	4000
4	Ross-on-Wye	1024·1	-10	E'N	4	b	74	45	8	-	-	-	0	0	-
5	Hartland Point	1021·9	0	NE	3	b	71	65	8	-	-	-	0	0	-
	Bristol	1023·8	-14	E	3	b	75	45	8	-	-	1	0	Tr	-
	Portland Bill	1022·5	-6	E	4	b	59	85	8	-	-	-	0	0	-
	Plymouth	1022·0	-6	E	4	z₀	70	65	8	-	-	-	0	0	-
	The Lizard	1021·4	-4	ENE	4	b	63	85	8	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	1020·7	0	E	5	b	68	75	6	4	-	-	1	1	4000
	Guernsey	1020·9	-4	NE'E	4	b	62	85	7	-	-	-	0	0	-
6	Pembroke	1022·5	-4	SE	4	b	72	85	7	1	-	-	Tr	Tr	2500
7	Holyhead	1024·7	-8	-	0	b	67	75	9	-	-	-	0	0	-
	Chester (Sealand)	1025·7	-10	SE	2	b	78	35	7	-	-	-	0	0	-
8	Manchester	1026·0	-6	SE	4	b	81	25	7	-	-	-	0	0	-
10	Spurn Head	1028·3	-2	NE'E	2	b	62	75	8	-	-	-	0	0	-
	Catterick	1027·3	-10	S	2	b	78	25	9	-	-	-	0	0	-
	Tynemouth	1027·8	0	SSE	3	bc	59	75	7	5	-	-	2-3	2-3	2500
11	St. Abbs Head	1026·8	-4	SE	4	b	65	65	8	-	-	-	0	0	-
	Leuchars	1026·2	-4	-	0	z₀	79	45	6	-	-	-	0	0	-
12	Renfrew (Abbots L.)	1026·0	-8	WSW	1	b	82	45	7	1	-	-	1	1	-
	Eskdalemuir	1026·0	-4	SSW	2	b	76	45	8	1	-	-	Tr	Tr	4000
	Point of Ayre	1026·6	-2	SE	2	b	70	65	8	-	-	-	0	0	-
13A	Tiree	1025·4	0	S'E	2	b	71	65	8	4	-	5	0	Tr	-
13B	Stornoway	1026·5	0	NNE	6	c	59	92	6	5	4	7	2-3	10	4000
15	Dalwhinnie	1025·9	-4	SW	3	b	77	45	8	-	4	-	0	Tr	-
	Aberdeen	1025·6	-4	S	4	b	76	55	7	-	-	-	0	0	-
	Wick	1026·0	+6	ENE	1	bc	59	85	6	5	4	1	2-3	4-6	2500
16	Lerwick	1025·5	-4	N'W	2	c	63	75	6	5	7	-	4-6	7-8	1500
17	Blacksod Point	1022·8	-4	SE	3	bc	74	65	7	2	-	9	2-3	4-6	4000
18	Malin Head	1025·3	-4	E	2	z₀	64	75	6	-	6	-	0	1	-
	Aldergrove	1025·3	-6	ESE	2	b	75	65	7	-	-	-	0	0	-
19	Birr Castle	1023·2	-4	SSE	3	b	79	45	7	-	-	-	0	0	-
20	Valentia Obsy. †	1020·6	-2	SE'E	5	bc	78	55	7	1	-	2	2-3	4-6	4000
	Roches Point	1022·3	0	E'S	4	b	65	85	8	1	-	-	Tr	Tr	4000

OBSERVATIONS at 18h. G.M.T. 5th. June — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.—13h. 5th. (37)	Weather 13h.—18h. 5th. (38)	Weather 18h. 5th. to 1h. 6th. (39)	Weather 1h.—7h. 6th. (40)
London (Kew)	1022·8	-8	ENE	4	b	72	45	8	-	-	-	0	0	-	0	*	bcm₀bz₀y	by	byb	bz₀
Croydon	1022·7	-10	ENE	4	b	69	55	8	-	-	-	0	0	-	0	*	bcbm₀by	by	bybm₀w	bm₀w
S. Farnborough	1022·4	-4	ENE	4	b	72	45	8	-	-	1	0	Tr	-	0	*	cm₀by	by	bm₀	bwjfm₀
Boscombe Down	1021·5	-8	E'N	3	b	74	35	8	-	-	-	0	0	-	0	*	bm₀bybz	bz₀y	b	b
Calshot (Soton.)	1021·3	-8	ENE	4	b	71	65	7	-	1	-	0	Tr	-	0	1	b	bbyb	bybbm₀	bm₀wb
Lympne	1022·5	-8	NNE	5	b	65	65	9	-	-	-	0	0	-	0	§3	bby	by	b	b
Manston	1022·9	-10	NE	4	b	62	75	7	-	-	-	0	0	-	0	*	bcm₀b	b	b	b
Shoeburyness	1023·8	-8	NE'N	4	b	64	75	8	-	-	-	0	0	-	0	*	bcb	b	b	bw
Felixstowe	1024·0	-10	NE'E	4	b	63	65	8	-	-	-	0	0	-	0	2	b	b	bbm₀	bm₀wb
Gorleston	1025·8	-6	NE	4	b	60	75	7	-	-	-	0	0	-	0	2	b	b	b	b
Mildenhall	1024·1	-8	ENE	4	b	71	45	9	-	-	5	0	Tr	-	0	*	bcbvy	bvy	bvybw	bwbby
Cranwell	1025·8	-2	E	3	b	69	45	9	-	-	-	0	0	-	0	*	by	byv	byvbw	b
Birmingham	1023·4	-10	ENE	4	b	73	45	8	1	-	-	1	1	4000	0	*	b	b	b	bz
Upper Heyford	1023·3	-4	E'S	3	b	73	45	8	-	-	-	0	0	-	0	*	b	by	b	b
Ross-on-Wye	1022·2	-12	E'N	3	b	75	45	8	-	-	-	0	0	-	0	*	bby	by	b	bm₀w
Hartland Point	1020·2	-6	NE	3	b	67	65	8	-	-	-	0	0	-	0	2	b	b	b	b
Bristol	1022·1	-18	E	4	b	77	35	9	-	-	-	0	0	-	0	*	bwby	b	bybw	bw
Portland Bill	1020·9	-8	E	3	b	61	85	8	-	-	-	0	0	-	1	3	b	b	bbc	bc
Plymouth	1020·5	-10	E	4	b	70	55	8	-	-	5	0	1	-	0	1	b	bz₀by	byb	bbq
The Lizard	1019·7	-10	ENE	4	bc	63	85	8	4	-	-	4-6	4-6	2500	0	3	bc	bc	bcb	bc
Scilly (St. Mary's)	1020·2	+2	E	4	b	64	85	6	-	4	-	0	1	-	0	3	b	b	bw	b
Guernsey	1019·0	-10	ENE	3	b	63	85	7	-	-	-	0	0	-	0	2	b	b	b	b
Pembroke	1021·3	-6	ESE	4	b	69	55	7	-	-	-	0	0	-	0	2	bcz₀b	by	bcbz₀	bcb
Holyhead	1022·6	-10	E'N	4	b	70	55	8	-	-	-	0	0	-	0	2	bwb	byb	bywb	bwb
Chester (Sealand)	1023·5	-14	E'S	2	b	78	45	8	-	-	-	0	0	-	0	*	bz₀wby	byz₀by	bybz₀w	bzfm₀wz₀
Manchester	1023·9	-10	E'S	3	b	79	35	8	-	-	-	0	0	-	0	*	bz₀yby	by	b	bbz₀y
Spurn Head	1026·5	-4	NE	3	b	58	85	8	-	-	-	0	0	-	0	2	ifcb	b	bcbw	bwb
Catterick	1025·3	-6	SE	1	b	77	45	9	-	-	-	0	0	-	0	*	bby	by	byb	
Tynemouth	1026·5	-8	SSE	3	bc	59	75	8	-	4	1	0	2-3	-	0	1	bc	bc	bc	bc
St. Abbs Head	1025·0	-6	SSE	4	b	67	75	7	-	-	-	0	0	-	0	2	bz₀	b	by	by
Leuchars	1024·9	-4	SE	3	b	79	55	7	-	-	-	0	0	-	0	*	bm₀y	by	bybm₀w	bm₀wb
Renfrew (Abbots L.)	1024·7	-6	SW	1	b	80	45	8	1	-	-	Tr	Tr	4000	0	*	bmwz₀y	b	byb	bm₀w
Eskdalemuir	1024·2	-8	-	0	b	79	35	8	1	-	-	Tr	Tr	4000	0	*	by	by	bybw	bw
Point of Ayre	1024·7	-14	E	2	b	66	75	8	-	-	-	0	0	-	0	1	b	bcb	b	b
Tiree	1024·7	0	-	0	b	64	75	7	-	-	-	0	0	-	0	1	b	b	b	b
Stornoway	1025·9	-4	-	0	f	56	97	2	-	-	-	10	10	<150	0	0	cf	cfe	FeFecfbcf	bcfm
Dalwhinnie	1024·0	-2	SW	3	bc	73	65	8	4	6	4	1	4-6	4000	0	*	b	bc	•	b
Aberdeen	1024·4	-4	S'W	3	b	73	55	7	-	3	-	0	Tr	-	0	1	by	by	b	bwz₀
Wick	1026·1	0	NE	1	bc	55	92	6	5	7	-	2-3	4-6	2500	0	1	bcz₀	bcz₀	bem	bcmF
Lerwick	1027·2	+6	SSW	2	m	53	92	4	5	-	-	10	10	220	0	*	cz₀	cFfm	offc	c
Blacksod Point	1021·1	-12	S	2	b	75	55	7	2	-	-	1	1	4000	0	1	bc	bc	b	b
Malin Head	1023·5	-10	E	3	b	67	65	8	5	-	-	1	1	5700	0	1	bczzbc	bcz₀zybc	bc	bc
Aldergrove	1023·8	-10	ESE	2	b	75	55	7	-	-	-	0	0	-	0	*	bz₀b	by	bybcbw	b
Birr Castle	1022·0	-4	SSE	3	b	76	55	7	-	-	-	0	0	-	0	*	by	bc		b
Valentia Obsy. †	1020·2	-2	E'S	4	c	74	65	8	1	-	6	1	7-8	4000	0	1	bcf	bcybc	bccb	bbwb
Roches Point	1021·4	-8	E	4	b	67	75	8	-	-	5	0	1	-	0	3	b	b	b	b

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

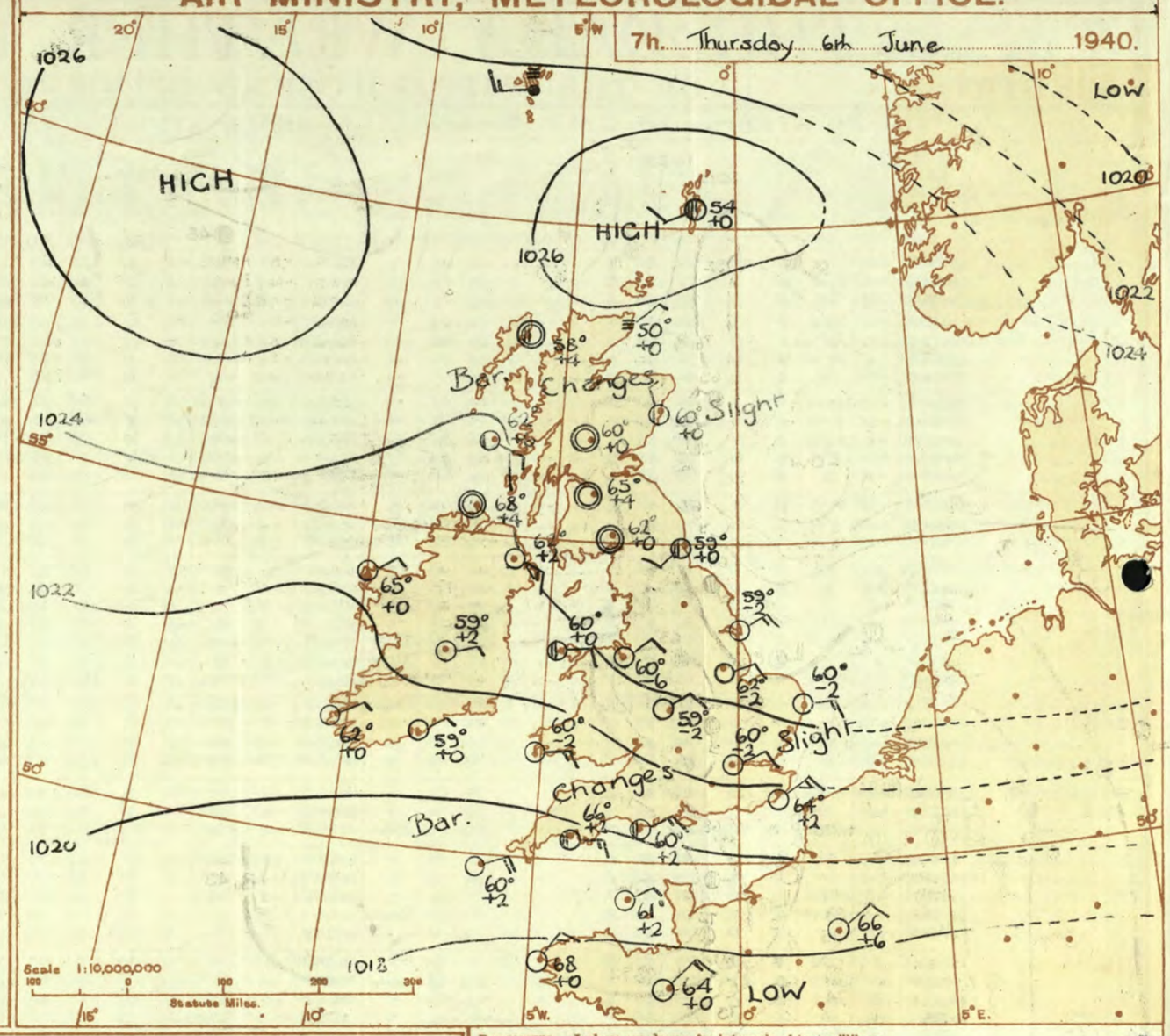
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 6th June 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light or moderate east or northeast wind; fine; warm.
10 N.E. England 11 S.E. Scotland	Light variable or east wind; fair, but local coast fog; cooler.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland	Light variable wind; fine; very warm.
15 N. E. Scotland	As 10 - 11.
16 Orkneys and Shetlands	Light variable wind; cloudy, local fog; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S E. Ireland 20 S. W. Ireland	As 1 - 9.

GENERAL INFERENCE.

A large anticyclone extends from the North Sea to the Atlantic south of Iceland, while a shallow depression over South France tends to spread northwards. Fine warm weather will continue in most areas, but on the Northeast Coasts it will be cooler with local fog.

FURTHER OUTLOOK.

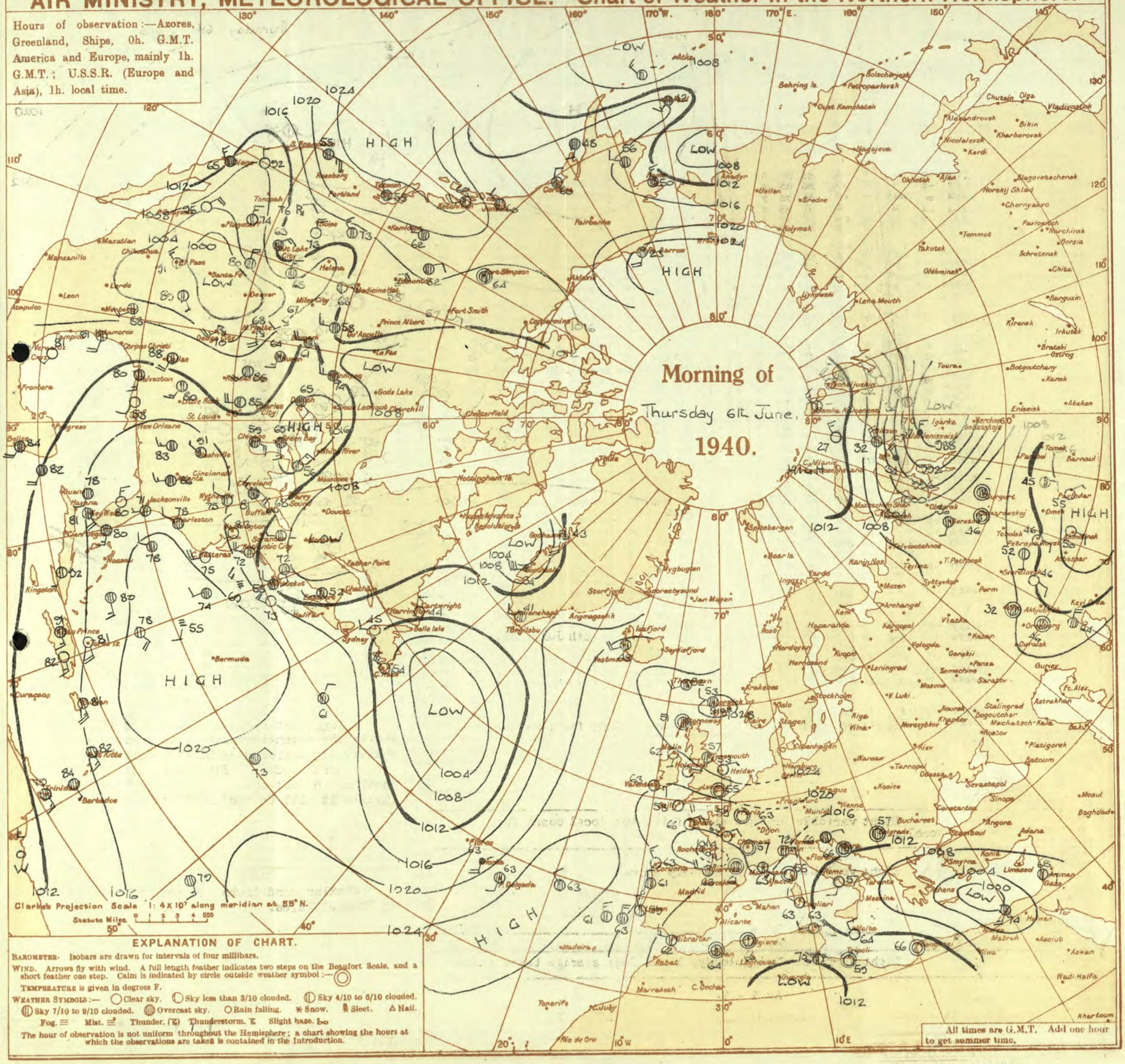
Similar conditions. Chance of thunder in Channel Isles.

Forecasts issued at 1030 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Thursday 6th. June, 1940.
No. 28686

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1022.8	-2	-	0	Z_0	55	97	5	-	-	-	0	0	-
	S. Farnborough	226	1022.7	-2	-	0	Z_0	56	85	6	-	-	-	0	0	-
	Boscombe Down	417	1022.4	0	NE'E	3	b	58	75	7	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1021.4	-4	N	2	Z_0	61	85	6	-	-	-	0	0	-
	Lympne ...	346	1022.2	-2	NE	3	b	57	85	7	-	-	-	0	0	-
	Manston ...	154	1022.2	-4	E'N	4	b	61	83	7	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1023.6	-2	NE'E	4	Z_0	57	85	6	-	-	-	0	0	-
	Gorleston ...	5	1024.5	-6	E	4	b	57	85	7	-	-	-	0	0	-
	Mildenhall ...	19	1024.0	-4	NE'E	2	b	52	75	8	-	-	-	0	0	-
	Cranwell ...	240	1025.6	-2	NE	2	b	52	85	7	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1023.7	-4	NE	3	b	54	85	7	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1021.0	0	ENE	3	b	63	65	8	-	-	-	0	0	-
	Bristol ...	209	1023.0	+2	NE	1	b	54	75	7	-	-	-	0	0	-
	Portland Bill ...	32	1020.5	-4	ENE	3	bc	58	85	8	5	-	-	2-3	2-3	4000
	Plymouth ...	82	1020.5	-2	E'N	3	b	61	75	8	-	-	-	0	0	-
	The Lizard ...	240	1020.1	0	ENE	4	b	58	92	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1019.5	-8	E'N	4	b	58	85	7	-	-	-	0	0	-
	Guernsey ...	175	1019.4	-6	E	3	b	58	85	7	-	-	-	0	0	-
6	Pembroke ...	142	1022.3	+2	E	3	b	57	85	7	-	1	-	0	Tr	-
7	Holyhead ...	26	1023.3	+4	NE'E	2	b	57	75	8	-	-	-	0	0	-
	Chester (Sealand)	16	1024.9	+4	E	1	Z_0	56	75	6	-	-	-	0	0	-
8	Manchester ...	70	1025.6	+2	NNE	2	b	56	85	7	-	-	-	0	0	-
10	Spurn Head ...	29	1025.9	-2	NE'E	2	b	53	97	6	-	-	-	0	0	-
	Catterick ...	175	1026.9	+2	-	0	b	50	92	8	-	-	-	0	0	-
	Tynemouth ...	108	1026.2	-4	SW	2	bc	57	75	6	5	-	-	2-3	2-3	1500
11	St. Abbs Head	280	1024.7	+2	SW	3	b	68	45	7	-	-	-	0	0	-
	Leuchars ...	36	1025.0	-2	-	0	Z_0	55	85	6	-	-	1	0	1	-
12	Renfrew (Abbots I.)	19	1025.3	-2	-	0	bjf	53	75	7	-	5	1	0	1	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1025.0	-2	SSW	3	b	59	85	7	-	-	5	0	1	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1025.6	-2	-	0	fg	51	97	4	5	7	-	7-8	7-8	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1025.7	-2	NE	1	m	51	97	4	5	1	-	2-3	4-6	2500
16	Lerwick ...	156	1027.6	-4	W'N	2	c	53	92	6	5	3	-	7-8	10	1500
17	Blacksod Point	18	1022.5	0	W'N	2	b	63	85	7	-	-	-	0	0	-
18	Malin Head ...	84	1024.1	+4	S	1	b	62	65	8	-	-	-	0	0	-
	Aldergrove ...	268	1024.4	+2	E	3	b	59	75	7	-	-	-	0	0	-
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1021.1	+2	E	3	b	63	75	7	-	-	-	0	0	-
	Roches Point	22	1022.1	0	E'N	2	b	56	92	8	-	-	-	0	0	-

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	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 5th Hrs. (36)
London (Kew)	1022.2	0	ENE	3	Z_0	63	75	6	-	-	-	0	0	-	0	*	74	58	52	-	-	14.0
Croydon ...	1022.5	-2	E'N	2	b	60	85	6	-	-	-	0	0	-	0	*	73	53	43	-	-	13.3
S. Farnborough	1022.0	-2	NE'E	2	Z_0	60	85	6	-	-	-	0	0	-	0	*	77	50	45	-	-	12.3
Boscombe Down	1021.3	-4	ENE	3	b	63	75	7	-	-	-	0	0	-	0	*	78	56	49	-	-	14.7
Calshot (Sthmtn.)	1020.8	-2	NE'E	2	b	66	75	7	-	-	-	0	0	-	0	1	76	57	53	-	-	15.6
Lympne ...	1021.7	+2	NE'E	3	b	64	75	8	-	-	-	0	0	-	0	§	72	56	53	-	-	14.9
Manston ...	1022.0	0	E	4	b	62	85	7	-	-	-	0	0	-	0	*	69	57	51	-	-	13.9
Shoeburyness ...	1022.7	0	NE	2	b	63	85	8	-	-	-	0	0	-	0	*	69	55	42	-	-	13.1
Felixstowe ...	1023.0	-6	ENE	3	b	61	75	8	-	-	-	0	0	-	0	1	69	57	53	-	-	13.8
Gorleston ...	1024.1	-2	E	3	b	60	85	7	-	-	-	0	0	-	0	2	60	57	56	-	-	12.0
Mildenhall ...	1023.5	-6	E	2	b	64	45	8	-	-	-	0	0	-	0	*	77	50	42	-	-	13.4
Cranwell ...	1025.1	-2	E'N	2	b	62	65	8	-	-	-	0	0	-	0	*	76	51	49	-	-	13.6
Birmingham ...	1024.1	-2	NE	2	Z_0	59	65	6	-	-	-	0	0	-	0	*	76	52	45	-	-	15.1
Upper Heyford	1023.3	-2	NE	3	b	60	75	7	-	-	-	0	0	-	0	*	76	50	45	-	-	*
Ross-on-Wye	1023.0	-6	NE	2	b	60	75	7	-	-	-	0	0	-	0	*	76	52	45	-	-	15.4
Hartland Point	1020.2	0	ENE	3	b	60	85	8	-	-	-	0	0	-	0	2	73	56	54	-	-	14.1
Bristol ...	1022.4	-4	ENE	2	b	59	85	7	-	-	-	0	0	-	0	*	77	50	39	-	-	15.0
Portland Bill ...	1020.2	+2	ENE	3	bc	60	85	8	5	-	-	2-3	2-3	4000	0	3	66	56	*	-	-	*
Plymouth ...	1019.8	+2	E	3	Z_0	66	65	7	5	-	8	4-6	4-6	5700	0	1	73	60	54	-	-	14.7
The Lizard ...	1019.9	+2	ENE	4	bc	62	85	8	7	-	-	4-6	4-6	2500	0	1	63	57	*	-	-	12.8
Scilly (St. Mary's)	1019.3	+2	ENE	4	b	60	85	7	-	-	-	0	0	-	0	3	68	57	*	-	-	14.6
Guernsey ...	1018.3	+2	NE'E	1	b	61	85	6	-	-	-	0	0	-	0	2	64	56	50	-	-	14.2
Pembroke ...	1021.1	-2	E	3	b	60	75	8	-	-	-	0	0	-	0	1	75	54	*	-	-	14.4
Holyhead ...	1023.2	0	E	2	bc	60	75	9	-	-	1	0	2-3	-	0	1	72	53	44	-	-	15.3
Chester (Sealand)	1024.3	-6	-	0	Z_0	61	65	6	-	-	-	0	0	-	0	*	80	49	40	-	-	15.1
Manchester ...	1024.3	-10	NE'E	3	Z_0	65	85	6	-	-	-	0	0	-	0	*	82	49	40	-	-	15.0
Spurn Head ...	1025.8	-2	NE	3	b	59	75	7	-	-	-	0	0	-	0	1	62	50	*	-	Tr	12.2
Catterick ...	1026.2	-2	-	0	b	58	75	8	-	-	-	0	0	-	0	*	80	45	38	-	-	15.6
Tynemouth ...	1025.9	0	SW	2	bc	59	65	5	5	-	-	4-6	4-6	2500	0	0	66	54	48	-	-	*
St. Abbs Head	1025.0	+2	-	0	b	70	55	8	-	-	-	0	0	-	0	1	72	63	*	-	-	*
Leuchars ...	1025.3	+6	NE	1	b	61	75	7	-	-	-	0	0	-	0	*	82	52	40	-	-	14.9
Renfrew (Abbots I.)	1025.7	+4	-	0	Z_0	65	75	6	-	-	-	0	0	-	0	*	83	50	44	-	-	15.5
Eskdalemuir ...	1025.6	0	-	0	b	62	85	8	-	-	-	0	0	-	0	*	81	46	38	-	-	14.6
Point of Ayre ...	1024.9	0	SE	2	b	63	75	8	-	-	5	0	1	-	0	1	74	53	*	-	-	14.3
Tiree	1024.0	+6	ESE	1	b	62	92	7	-	-	5	0	1	-	0	1	75	52	*	-	-	15.3
Stornoway ...	1025.3	+4	-	0	bc	58	85	6	5	-	-	2-3	2-3	4000	0	0	62	49	*	-	-	9.1
Dalwhirnie ...	*	0	-	0	b	60	75	8	-	-	-	0	0	-	0	*	79	41	34	-	-	14.2
Aberdeen ...	1025.2	0	NNW	1	b	60	85	6	-	3	-	0	Tr	-	0	1	77	50	45	-	-	14.5
Wick ...	1026.2	0	NE	1	F	50	97	1	-	-	-	10	10	<150	1	1	65	48	*	-	-	*
Lerwick ...	1027.2	0	WSW	2	c	54	92	7	5	2	-	7-8	9+	800	0	*	64	51	*	-	-	3.4
Blacksod Point	1022.1	0	NE	1	b	65	75	7	-	-	-	0	0	-	0	1	78	60	*	-	-	*
Malin Head ...	1023.4	+4	-	0	b	68	65	8	-	-	-	0	0	-	0	0	69	52	*	-	-	13.4
Aldergrove ...	1024.2	+2	ESE	3	b	62	65	7	-	-	-	0	0	-	0	*	77	58	51	-	-	15.6
Birr Castle ...	1022.6	+2	ESE	1	b	59	85	7	-	-	-	0	0	-	0	*	79	50	46	-	-	14.5
Valentia Obsy.	1020.7	0	NE	1	b	62	85	8	-	-	1	0	Tr	-	0	1	78	55	50	-	Tr	12.3
Roches Point	1020.8	0	NE	1	b	59	85	8	-	-	-	0	0	-	0	2	68	55	*	-	-	*

PAST 24 HOURS.

Temperature: Max. Day 7h–18h °F. (31); Min. Night 18h–7h °F (32); Min. on Grass °F. (33). Rainfall: Day 7h–18h mm. (34); Night 18h–7h mm. (35). Sunshine: 5th Hrs. (36).

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	bcmbzy	by	bybbz$_0$	74	58	52	-	-	14.0	•	•	6
Croydon ...	217	bcbmzby	by	bybmzy	73	53	43	-	-	13.3	•	•	6
Greenwich (Royal Observatory) ...	149	by	by	bmb	73	55	45	-	-	12.6	33	62	6
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	75	38	52	-	-	12.4	40	65	•
Regents Pk. (Botanic Gardens)† ...	168	•	•	•	76	56	53	-	-		20	57	•
Camden Square ...	110	b	b	•	75	56	51	-	-	•	•	63	•
Kensington ...	80	b	b	•	77	57	54	-	-		43	59	•
Hampstead Observatory ...	450										•		•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0.1	6-7h. 6th.	<0.1	14-23h. 5th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 5th. June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 6th. June 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 ...	1016.2	NE	3	b	75	1018.1	NE	2	b	66	81	57	-	-
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...						1011.8	E	2	b	65	•	•	-	

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 —Code for State of Sea.

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

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

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

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 7th June, 1940.

No. 28687.

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1022.0	-2	NNE	4	b	77	46	8	-	-	-	0	0	-
	Croydon	1021.9	-2	ENE	4	b	77	48	8	-	-	-	0	0	-
	S. Farnborough	1021.4	-4	E'N	4	b	81	35	7	1	-	-	1	1	4000
	Boscombe Down	1020.6	-6	E	3	z_0	80	55	7	2	-	-	4-6	4-6	4000
	Calshot (Soton.)	1020.8	0	SE	4	b	71	75	7		-	-	2-3	2-3	4000
	Lympne	1021.9	+2	NE'E	4	b	76	45	8	-	-	-	0	0	-
	Manston	1022.7	0	ENE	4	b	72	45	7	-	-	-	0	0	-
2	Shoeburyness	1023.2	0	NE'E	3	b	68	65	8	-	-	-	0	0	-
	Felixstowe	1023.6	+2	E'N	3	b	67	65	8	-	-	-	0	0	-
	Gorleston	1024.7	+2	ENE	1	b	60	85	7	-	-	-	0	0	-
	Mildenhall	1023.2	-2	ENE	4	b	79	35	9	-	-	-	0	0	-
	Cranwell	1024.4	0	ENE	3	b	78	35	8	-	-	-	0	0	-
3	Birmingham	1024.3	-2	E	3	b	75	45	8	1	-	-	1	1	4000
	Upper Heyford	1022.6	-2	E'S	3	b	78	45	7	1	-	-	1	1	4000
4	Ross-on-Wye	1021.8	-6	ENE	4	b	77	45	7	1	-	-	Tr	Tr	4000
5	Hartland Point	1020.2	-6	NE	2	b	79	75	7	-	-	-	0	0	-
	Bristol	1021.3	-6	ENE	3	b	79	56	7	1	-	-	Tr	Tr	4000
	Portland Bill	1020.7	+4	E	4	bc	66	85	8	5	-	-	2-3	2-3	4000
	Plymouth	1020.1	0	E'S	4	z_0	75	65	6	-	-	-	0	0	-
	The Lizard	1019.8	-2	E	4	b	67	75	8	-	-	-	0	0	-
	Scilly (St. Mary's)	1020.2	+2	ENE	3	b	70	78	7	-	-	-	0	0	-
	Guernsey	1018.7	0	ENE	3	b	65	75	7	-	-	-	0	0	-
6	Pembroke	1021.2	-4	-	0	b	66	68	7	1	-	-	0	Tr	2500
7	Holyhead	1022.9	-6	ENE	3	z_0	69	75	6	-	-	-	0	0	-
	Chester (Sealand)	1023.4	-6	SE'E	3	b	79	48	8	-	-	-	Tr	Tr	5700
8	Manchester	1023.5	-2	ESE	4	z_0	82	35	6	-	-	-	0	0	-
10	Spurn Head	1025.9	0	ENE	3	b	62	75	7	-	-	-	0	0	-
	Catterick	1024.9	-8	ENE	1	b	78	45	8	-	-	-	0	0	-
	Tynemouth	1025.9	0	SSE	3	b	64	65	7	-	-	-	0	0	-
11	St. Abbs Head	1025.2	0	SSE	2	b	75	45	7	1	-	-	Tr	Tr	1500
	Leuchars	1025.1	0	ESE	2	z_0	73	55	6	2	-	-	Tr	Tr	4000
12	Renfrew (Abbots I.)	1024.5	-8	ESE	1	b	83	35	8	-	-	-	0	0	-
	Eskdalemuir	1023.8	-6	S'E	2	b	78	36	8	-	-	-	0	0	-
	Point of Ayre	1024.6	-4	E	3	b	66	75	8	-	-	-	0	0	-
13A	Tiree	1024.4	0	SSE	2	b	75	45	7	-	-	-	0	0	-
13B	Stornoway	1025.0	-2	SE'S	1	b	62	86	6	1	-	-	Tr	Tr	4000
15	Dalwhinnie	1024.7	-4	S	2	bc	81	35	8	4	6	-	2-3	2-3	4000
	Aberdeen	1025.6	+4	ESE	2	b	65	76	6	1	-	-	Tr	Tr	4000
	Wick	1026.0	+2	NNE	3	F	50	97	1	-	-	-	10	10	1150
16	Lerwick	1026.7	-4	W'N	2	c	58	75	7	8	7	-	7-8	9+	800
17	Blacksod Point	1021.8	0	-	0	b	74	68	7	2	-	-	1	1	5700
18	Malin Head	1024.0	-2	E	3	bc	63	65	8	5	-	-	2-3	2-3	5700
	Aldergrove	1024.2	-2	SE'E	3	b	73	56	8	-	-	-	0	0	-
19	Birr Castle	1021.7	-2	ESE	1	bc	79	48	7	-	8	-	0	2-3	-
20	Valentia Obsy. †	1021.1	+2	W'S	3	b	72	68	8	1	4	-	Tr	1	4000
	Roches Point	1021.9	0	E	3	b	66	66	8	-	-	-	0	0	-

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

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)	1021.7	-4	ENE	4	b	75	35	8	-	-	-	0	0	-	0	*
	Croydon	1021.6	-2	E'N	4	b	73	55	8	-	-	1	0	1	-	0	*
	S. Farnborough	1021.2	0	E'N	4	b	75	55	8	-	-	1	0	Tr	-	0	*
	Boscombe Down	1020.4	0	NE'E	3	z_0	78	35	7	-	-	-	0	0	-	0	*
	Calshot (Soton.)	1020.3	-4	SE'E	3	b	68	75	7	-	-	-	0	0	-	0	1
	Lympne	1021.2	-6	NE'N	4	b	69	55	8	-	-	-	0	0	-	0	*
	Manston	1021.8	-4	NE'E	4	b	65	75	7	-	-	-	0	0	-	0	*
2	Shoeburyness	1022.7	-4	NE'N	4	b	66	65	8	-	-	-	0	0	-	0	*
	Felixstowe	1022.7	-8	NE'E	5	b	67	65	8	-	-	-	0	0	-	0	3
	Gorleston	1023.6	-6	NE'E	3	b	60	85	7	-	-	-	0	0	-	0	2
	Mildenhall	1022.8	-4	E	3	b	75	45	9	-	-	1	0	Tr	-	0	*
	Cranwell	1024.0	-2	E	3	b	71	55	8	-	-	-	0	0	-	0	*
3	Birmingham	1022.1	-6	ENE	4	b	77	45	8	7	-	-	1	1	2500	0	*
	Upper Heyford	1021.8	-2	E	3	b	76	45	8	-	-	-	0	0	-	0	*
4	Ross-on-Wye	1021.0	-6	NE'E	3	b	78	45	8	-	-	-	0	0	-	0	*
5	Hartland Point	1019.9	0	NNE	2	bc	72	65	7	4	-	-	4-6	4-6	2500		
	Bristol	1020.6	-8	NE	2	b	78	48	8	-	-	-	0	0	-	0	*
	Portland Bill	1020.3	-6	E	3	b	62	85	8	-	-	-	0	0	-	0	3
	Plymouth	1019.8	-2	E'N	4	z_0	74	55	7	-	-	-	0	0	-	0	1
	The Lizard	1019.7	0	ENE	3	b	65	75	8	-	-	-	0	0	-	0	2
	Scilly (St. Mary's)	1019.9	-2	NE	2	b	68	75	6	-	-	-	0	0	-	0	1
	Guernsey	1018.5	-4	ENE	3	b	65	75	7	-	-	-	0	0	-	0	2
6	Pembroke	1020.9	-4	-	0	b	75	65	6	-	-	-	0	0	-	0	0
7	Holyhead	1021.9	-8	WNW	2	b	63	75	7	-	-	-	0	0	-	0	2
	Chester (Sealand)	1022.0	-6	SE	3	b	78	45	8	-	-	-	0	0	-	0	*
8	Manchester	1022.4	-6	ESE	3	b	79	45	7	-	-	-	0	0	-	0	*
10	Spurn Head	1024.9	-4	NE	2	b	59	85	7	-	-	-	0	0	-	0	2
	Catterick	1023.9	-2	S'E	3	b	76	45	8	-	-	1	0	Tr	-	0	*
	Tynemouth	1025.1	-6	SSE	2	b	61	75	8	-	-	-	0	0	-	0	0
11	St. Abbs Head	1023.9	-8	SE	3	b	70	45	8	1	-	-	Tr	Tr	2500	0	2
	Leuchars	1024.4	-8	NE	2	z_0	63	75	6	3	-	-	Tr	Tr	4000	0	*
12	Renfrew (Abbots I.)	1022.8	-6	WSW	3	b	81	45	8	2	-	-	1	1	4000	0	*
	Eskdalemuir	1022.6	-4	SSE	2	b	77	35	8	-	-	-	0	0	-	0	*
	Point of Ayre	1023.1	-8	NE	1	b	70	55	8	-	-	-	0	0	-	0	0
13A	Tiree	1024.0	-2	-	0	b	65	75	8	-	-	5	0	Tr	-	0	1
13B	Stornoway	1024.9	0	NNE	4	f-	54	97	2	-	-	-	10	10	1150	0	2
15	Dalwhinnie	*	+14	-	0	Hr	62	85	8	6	7	-	4-6	10	4000	1	*
	Aberdeen	1025.5	+2	ENE	1	bif	59	85	6	1	3	-	Tr	Tr	2500	0	1
	Wick	1026.2	+2	NE	2	F	50	97	1	-	-	-	10	10	1150	0	1
16	Lerwick	1026.5	+2	W'N	5	c	55	75	8	5	7	-	7-8	9+	1500	0	*
17	Blacksod Point	1021.4	-2	NW	1	b	72	65	7	1	-	-	1	1	5700	0	1
18	Malin Head	1022.8	-10	E	2	b	63	65	8	-	-	-	0	0	-	0	0
	Aldergrove	1022.8	-8	SE'E	2	b	73	55	8	-	-	-	0	0	-	0	*
19	Birr Castle	1021.3	-2	ESE	1	b	77	45	8	-	-	-	0	0	-	0	*
20	Valentia Obsy. †	1021.4	+2	NW'N	2	b	70	65	8	1	-	-	Tr	Tr	4000	0	1
	Roches Point	1021.2	-6	E	3	b	67	75	8	-	-	-	0	0	-	0	2

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 6th. (37)	13h.—18h. 6th. (38)	18h. 6th to 1h. 7th. (39)	1h.—7h. 7th. (40)
1	London (Kew)	bz₀by	by	byb	bz₀
	Croydon	bm₀z₀b	by	bybm₀w	bm₀wb
	S. Farnborough	bz₀y	by	bybm₀	bm₀wz₀
	Boscombe Down	bz₀bcz₀	bcz₀bz₀	b	bm₀
	Calshot (Soton.)	bbc	bbz₀b	bbybbm₀	bwm₀
	Lympne	bby	by	b	b
	Manston	bbz₀y	byb	b	b
2	Shoeburyness	b	b	b	bw
	Felixstowe	b	b	b	b
	Gorleston	b	b	bw	bw
	Mildenhall	by	bvy	bwbbw	bbw
	Cranwell	by	by	byb	b
3	Birmingham	b	b	b	bz
	Upper Heyford	b	by	byb	bbw
4	Ross-on-Wye	bby	by	b	bw
5	Hartland Point	b	bc	bcb	b
	Bristol	by	bbcby	bybz₀w	mbw
	Portland Bill	bcbc	bcb	bcb	bc
	Plymouth	bcbz₀y	bz₀yb	bybz₀	bz₀
	The Lizard	b	b	bc	bc
	Scilly (St. Mary's)	b	bz₀	b	b
	Guernsey	b	b	b	b
6	Pembroke	b	bz₀	bcz₀	bcz₀b
7	Holyhead	bz₀b	bz₀b	bw	bwb
	Chester (Sealand)	bz₀y	by	bybz₀w	bz₀wm₀z₀
8	Manchester	bz₀y	bz₀yby	bybz₀	bm₀z₀w
10	Spurn Head	b	b	bw	bw
	Catterick	bby	by	bbw	wbbf₀b
	Tynemouth	bcb	b	b	bbc
11	St. Abbs Head	by	bc	bc	ffc
	Leuchars	bbm₀	bm₀ff	ffd₀d₀foid₀	
12	Renfrew (Abbots I.)	bz₀wby	byz₀by	bifbm₀	bz₀m₀
	Eskdalemuir	by	by	bybw	bw
	Point of Ayre	b	b	b	b
13A	Tiree	b	b	b	b
13B	Stornoway	bcb	bfe	FcFc	FcFc
15	Dalwhinnie	b	bcc Hr	*	cirb
	Aberdeen	bz₀	bz₀b	bofd₀	ofmd₀d₀
	Wick	Ff	Ff	Ffd₀	off
16	Lerwick	c	c	cid₀	cid₀
17	Blacksod Point	bc	bc	b	b
18	Malin Head	bc	bc	bc	bbz₀zb
	Aldergrove	bby	by	bybw	bwb
19	Birr Castle	bcby	bcby	b	b
20	Valentia Obsy. †	bbccbcb	b	bbw	bwb
	Roches Point	b	b	b	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄ gale.
⊕ Solar halo. ◐ lunar halo. ⌓ Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

† Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

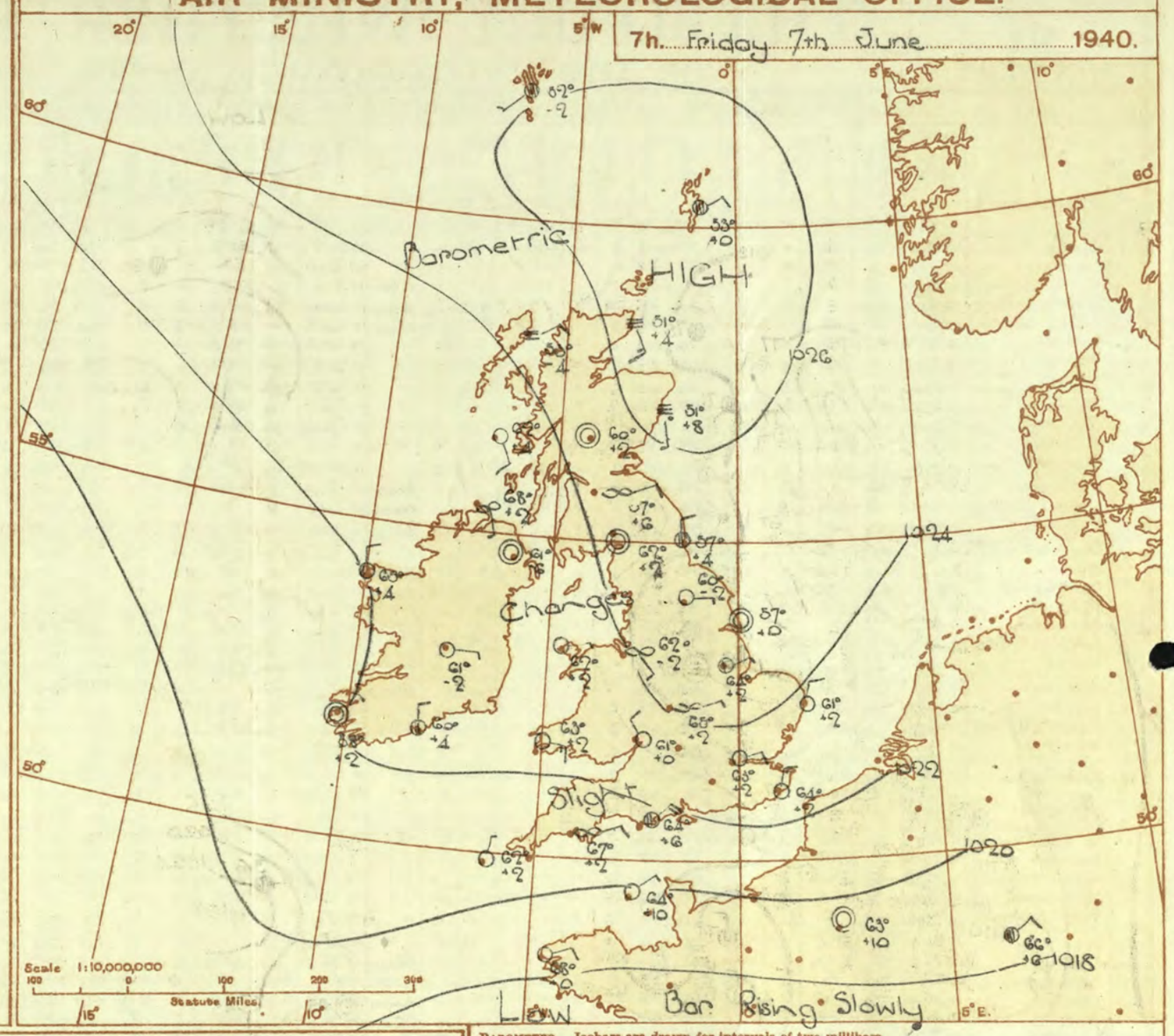
COLUMN 29—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 7th June 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th June, 1940
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light east to northeast wind; fine today; fog and low cloud spreading in over the coast this evening and tonight; more cloud tomorrow; very warm inland today, then cooler.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light variable to southerly winds; fine and very warm.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light variable to easterly wind; fine inland; fog at times on coast, drifting inland at night; warm inland , cool near the coast.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland	Light southeast to variable wind; mainly fine; scattered local thunderstorms in the hills this evening; very warm.
15 N. E. Scotland 16 Orkneys and Shetlands	Light variable wind; mainly cloudy and foggy but brighter periods in Shetland; average temperature to rather cool .
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 4 - 8.

GENERAL INFERENCE.

A large anticyclone centred over the Shetland Islands will probably begin to move southeast. It will maintain fine warm weather in most areas but there will be much fog and lower temperatures near the coast of Scotland and Northeast England and later on our East and Southeast coasts. Scattered local thunderstorms will develop today in the Scottish Highlands.

FURTHER OUTLOOK.

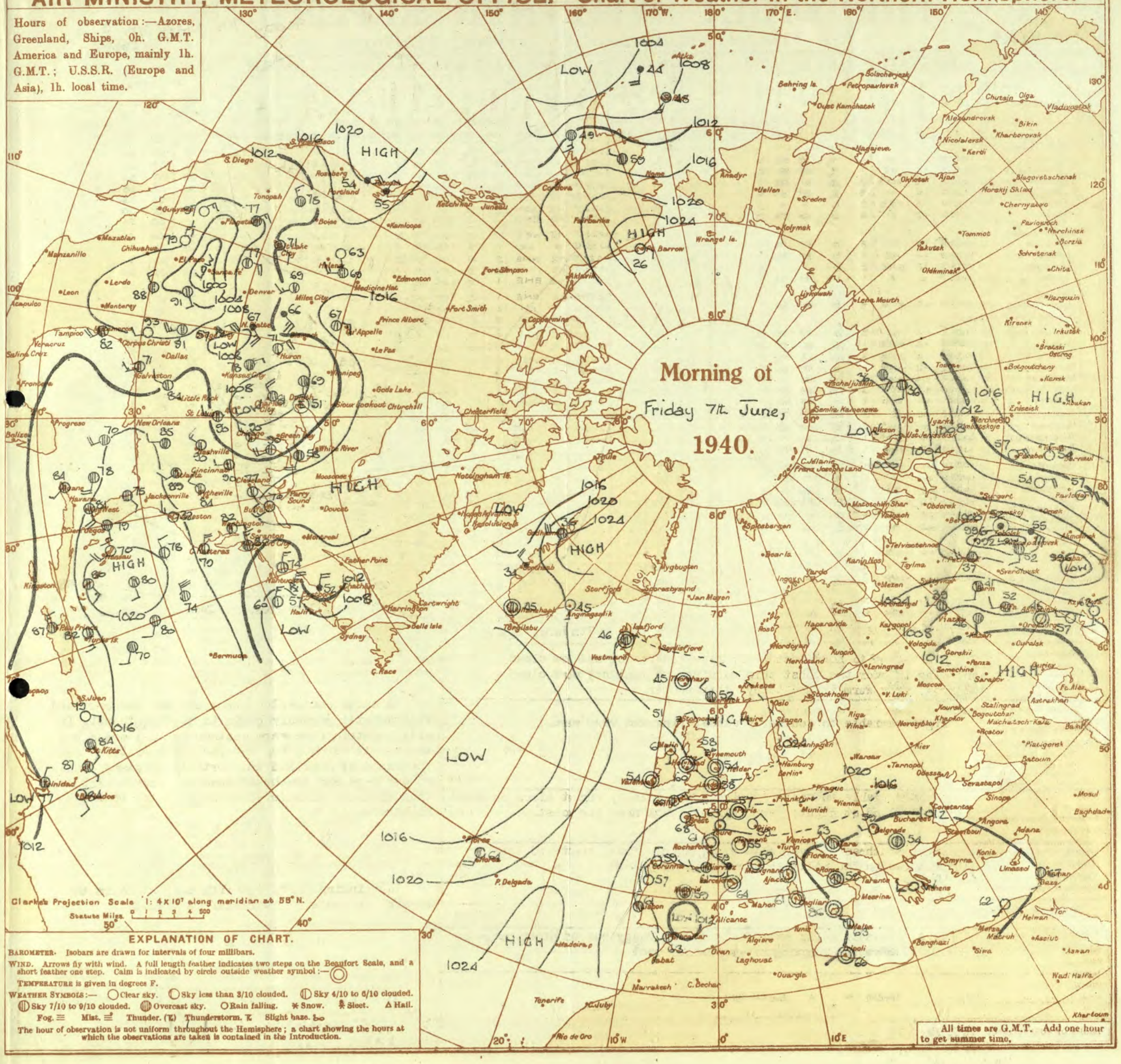
Continuing fair, but with more cloud in the morning in eastern districts; less warm

Forecasts issued at 1030 G.M.T.

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 7th June, 1940.

No. 28687.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1022·8	+2	-	0	Z_0	58	92	6	-	-	-	0	0	-
	S. Farnborough	226	1022·7	+4	NE	1	Z_0	59	85	6	-	-	-	0	0	-
	Boscombe Down	417	1022·3	+2	NE'E	3	b	61	65	7	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1021·5	+4	N	2	Z_0	63	85	6	-	-	-	0	0	-
	Lympne ...	346	1022·2	+4	NE'E	3	b	*	*	7	-	-	-	0	0	-
	Manston ...	154	1022·6	-2	E'N	4	b	60	75	7	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1023·5	+4	NE	3	b	57	75	7	-	-	-	0	0	-
	Gorleston ...	5	1023·9	+4	NE	1	b	57	85	7	-	-	-	0	0	-
	Mildenhall ...	19	1023·8	+2	ENE	2	b	*	*	8	-	1	-	0	1	-
	Cranwell ...	240	1024·7	0	E	1	b	52	92	7	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1023·7	+6	ENE	2	b	57	85	7	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1021·2	+4	SE	3	b	65	65	8	-	-	-	0	0	-
	Bristol ...	209	1023·0	+6	NE'E	1	Z_0	57	65	6	-	-	-	0	0	-
	Portland Bill ...	32	1020·9	-4	ENE	3	b	58	92	7	-	-	-	0	0	-
	Plymouth ...	82	1021·2	+2	NE'E	1	b	63	65	7	-	-	-	0	0	-
	The Lizard ...	240	1021·1	+4	ENE	3	bc	63	65	8	4	-	1	2-3	2-3	2500
	Scilly (St. Mary's)	163	1021·0	+4	NE'E	3	bc	60	85	7	8	-	-	2-3	2-3	2500
	Guernsey ...	175	1019·7	+4	E'N	1	b	58	85	7	-	-	-	0	0	-
6	Pembroke ...	142	1022·2	+6	E	3	bc	63	75	6	2	-	-	2-3	2-3	2500
7	Holyhead ...	26	1022·4	0	-	0	b	60	85	7	-	-	-	0	0	-
	Chester (Sealand)	16	1023·9	+6	E'S	1	Z_0	61	75	6	-	-	-	0	0	-
8	Manchester ...	70	1024·2	+2	NNE	1	Z_0	55	75	6	-	-	-	0	0	-
10	Spurn Head ...	29	1025·0	0	-	0	b	54	92	7	-	-	-	0	0	-
	Catterick ...	175	1025·2	0	-	0	b	51	92	7	-	-	-	0	0	-
	Tynemouth ...	108	1024·9	+2	SW	1	b	58	75	5	-	-	-	0	0	-
11	St. Abbs Head	280	1024·9	-2	N	3	bc	54	85	8	5	4	-	2-3	2-3	2500
	Leuchars ...	36	1025·6	+2	NE	2	f	51	97	2	-	-	-	10	10	<150
12	Renfrew (Abbots I.)	19	1024·5	+6	E	2	Z_0	60	75	6	-	-	-	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1023·7	+4	S'W	4	b	61	85	7	-	-	-	0	0	-
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1024·7	-12	NNE	2	fs	51	97	1	-	-	-	10	10	<150
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1026·1	-6	ESE	1	df	50	97	1	-	-	-	10	10	<150
16	Lerwick ...	156	1026·9	-2	NW	2	c	52	92	7	5	2	-	7-8	10	800
17	Blacksod Point	18	1021·6	0	-	0	b	60	85	7	-	-	-	0	0	-
18	Malin Head ...	84	1023·2	+2	S	1	b	61	75	8	-	-	-	0	0	-
	Aldergrove ...	268	1023·3	0	E'S	1	b	56	85	7	-	-	-	0	0	-
19	Birr Castle ...	173	1022·8	+2	ESE	1	b	56	85	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1022·2	-2	-	0	b	54	92	7	-	-	-	0	0	-
	Roches Point	22	1022·5	+2	N	2	b	58	92	8	-	-	-	0	0	-

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

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)	1023·3	+4	ENE	2	Z_0	65	65	5	-	-	-	0	0	-	0	*
	Croydon ...	1022·9	+2	E'N	2	b	63	85	7	-	-	-	0	0	-	0	*
	S. Farnborough	1023·0	+2	NE'N	1	Z_0	62	75	6	-	-	-	0	0	-	0	*
	Boscombe Down	1022·4	0	ENE	3	Z_0	63	75	7	-	-	-	0	0	-	0	*
	Calshot (Sthmtn.)	1021·7	+2	N	1	Z_0	65	85	6	-	-	-	0	0	-	0	0
	Lympne ...	1022·7	+2	NE'N	3	b	64	75	8	-	-	-	0	0	-	0	§2
	Manston ...	1023·0	+6	ENE	2	b	64	75	7	-	-	-	0	0	-	0	*
2	Shoeburyness ...	1023·7	+2	NE'E	2	b	65	75	8	-	-	-	0	0	-	0	*
	Felixstowe ...	1023·6	0	NE	2	b	65	65	8	-	-	-	0	0	-	0	1
	Gorleston ...	1023·9	+2	NNE	2	b	61	85	5	-	-	-	0	0	-	0	2
	Mildenhall ...	1024·2	+2	-	0	b	60	75	8	-	4	-	0	Tr	-	0	*
	Cranwell ...	1024·6	+2	ENE	1	b	64	65	8	-	-	1	0	1	-	0	*
3	Birmingham ...	1023·8	+2	ENE	1	Z_0	65	65	6	-	-	-	0	0	-	0	*
	Upper Heyford	1023·5	-2	E'N	3	b	63	65	7	-	-	-	0	0	-	0	*
4	Ross-on-Wye	1023·4	0	NW	2	b	61	85	7	-	-	-	0	0	-	0	*
5	Hartland Point	1021·3	0	ENE	2	b	64	75	8	-	-	-	0	0	-	0	1
	Bristol ...	1023·0	-2	-	0	b	62	75	7	-	-	-	0	0	-	0	*
	Portland Bill ...	1021·5	+6	NE	4	bc	64	85	8	5	-	-	4-6	4-6	4000	1	3
	Plymouth ...	1021·0	+2	E'N	2	Z_0	67	89	7	-	-	-	0	0	-	0	1
	The Lizard ...	1021·0	+2	ENE	4	bc	64	75	8	7	-	-	2-3	2-3	4000	0	2
	Scilly (St. Mary's)	1020·7	+2	ENE	3	b	62	75	7	-	-	-	0	0	-	0	1
	Guernsey ...	1019·5	+10	NE'E	1	b	64	78	6	-	-	-	0	0	-	0	1
6	Pembroke ...	1022·1	+2	E'S	3	b	63	75	7	-	-	-	0	0	-	0	1
7	Holyhead ...	1022·7	+2	E'N	1	b	62	85	8	-	-	-	0	0	-	0	0
	Chester (Sealand)	1024·1	-2	SE	1	Z_0	62	75	8	-	-	-	0	0	-	0	*
8	Manchester ...	1024·3	0	ESE	2	Z_0	66	65	5	-	-	-	0	0	-	0	*
10	Spurn Head ...	1024·7	0	-	0	b	57	85	7	-	-	-	0	0	-	0	1
	Catterick ...	1024·7	-2	ESE	1	b	60	78	8	-	-	-	0	0	-	0	*
	Tynemouth ...	1025·0	+4	N	2	bc	57	85	5	5	-	-	2-3	2-3	1500	0	0
11	St. Abbs Head	1025·5	+6	-	0	f	53	97	1	-	-	-	10	10	<150	1	0
	Leuchars ...	1025·7	+2	NNE	1	id	51	97	4	-	-	-	10	10	<150	1	*
12	Renfrew (Abbots I.)	1025·2	+6	ENE	2	Z_0	57	85	6	-	-	-	0	0	-	0	*
	Eskdalemuir ...	1024·3	+2	-	0	b	62	75	8	-	-	-	0	0	-	0	*
	Point of Ayre ...	1023·6	0	S	4	b	61	85	7	-	-	-	0	0	-	0	2
13A	Tiree ...	1022·7	+4	SE'S	2	b	62	75	7	-	-	-	0	0	-	0	1
13B	Stornoway ...	1024·1	-4	NE	2	fg	53	97	1	-	-	-	10	10	<150	0	1
15	Dalwhirnie ...	1025·1	-2	-	0	b	60	85	8	-	-	-	0	0	-	1	*
	Aberdeen ...	1026·1	+8	SSE	1	if	51	97	4	5	-	-	10	10	<150	1	1
	Wick ...	1025·8	+4	SE	3	f-	51	97	3	-	-	-	10	10	<150	1	1
16	Lerwick ...	1027·0	0	NE	2	c	53	75	8	5	3	-	4-6	7-8	1500	0	*
17	Blacksod Point	1021·9	+4	NNW	2	b	65	85	7	-	4	-	0	1	-	0	1
18	Malin Head ...	1022·7	+2	SE	1	Z_0	68	65	7	-	-	-	0	0	-	0	1
	Aldergrove ...	1022·8	-6	-	0	bc	61	85	7	-	4	-	0	2-3	-	0	*
19	Birr Castle ...	1022·8	-2	ESE	1	b	61	85	7	-	-	-	0	0	-	0	*
20	Valentia Obsy.	1022·0	+2	-	0	b	58	85	7	-	-	-	0	0	-	0	1
	Roches Point	1022·1	+4	N	2	bc	60	85	8	5	-	-	2-3	2-3	4000	0	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 6th Hrs. (36)
1	London (Kew)	75	59	50	-	-	14·5
	Croydon ...	79	53	44	-	-	14·0
	S. Farnborough	82	57	50	-	-	14·1
	Boscombe Down	82	58	53	-	-	14·2
	Calshot (Sthmtn.)	73	58	53	-	-	14·8
	Lympne ...	77	57	53	-	-	14·9
	Manston ...	73	58	51	-	-	15·0
2	Shoeburyness ...	71	54	46	-	-	14·3
	Felixstowe ...	69	55	51	-	-	15·3
	Gorleston ...	61	53	51	-	-	15·4
	Mildenhall ...	80	46	39	-	-	15·3
	Cranwell ...	80	46	38	-	-	15·4
3	Birmingham ...	79	57	43	*	-	14·7
	Upper Heyford	80	52	51	-	-	*
4	Ross-on-Wye	79	52	43	-	-	14·8
5	Hartland Point	(79)	59	58		-	12·7
	Bristol ...	81	50	42	-	-	14·1
	Portland Bill ...	67	57	*	-	-	*
	Plymouth ...	77	59	47	-	-	13·9
	The Lizard ...	67	61	55	-	-	12·6
	Scilly (St. Mary's)	71	53	*	-	-	14·3
	Guernsey ...	67	55	49	-	-	14·3
6	Pembroke ...	75	57	*	-	-	14·3
7	Holyhead ...	70	52	45	-	-	15·2
	Chester (Sealand)	80	55	45	-	-	15·1
8	Manchester ...	82	53	45	-	-	14·9
10	Spurn Head ...	63	51	*	-	Tr	15·0
	Catterick ...	81	47	35	-	-	15·6
	Tynemouth ...	65	54	46	-	-	*
11	St. Abbs Head	76	51	*	-	Tr	*
	Leuchars ...	73	49	49	-	Tr	15·3
12	Renfrew (Abbots I.)	86	55	47	-	-	14·5
	Eskdalemuir ...	81	46	37	-	-	14·3
	Point of Ayre ...	70	57	*	-	-	14·6
13A	Tiree ...	78	52	*	-	-	15·6
13B	Stornoway ...	69	50	*	-	-	13·0
15	Dalwhirnie ...	84	47	38	6	3	10·2
	Aberdeen ...	69	50	49	-	Tr	13·3
	Wick ...	51	50	*	-	Tr	*
16	Lerwick ...	63	49	*	-	Tr	4·6
17	Blacksod Point	76	58	*	-	-	*
18	Malin Head ...	70	55	*	-	-	15·1
	Aldergrove ...	74	52	43	-	-	15·2
19	Birr Castle ...	80	51	43	-	-	14·7
20	Valentia Obsy.	77	52	46	-	Tr	14·7
	Roches Point	68	57	*	-	-	*

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.
Kew ...	18	bz by	by	by bz	78	59	50	-	-	14·5	*	*	6
Croydon ...	217	bm z b	by	by bm w	79	53	44	-	-	14·0	*	*	7
Greenwich (Royal Observatory) ...	149	by	by y	b	78	54	43	-	-		26	53	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	78	59	54	-	-	14·5	42	48	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	80	57	53	-	-		55	48	*
Camden Square ...	110	b	b	*	81	59	50	-	-	*	*	43	*
Kensington ...	80	b	b	*	82	58	54	-	-		39	50	*
Hampstead Observatory ...	450	b	b	b	77	55	50	-	-		*	54	*

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

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
0·2	7-9h 6th.	<0·1	14-20h 6th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 6th June. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 7th June. 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 ...	1016·6	NE	3	b	79						82		-	
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...	1009·8	N	4	bc	75						*	*	—	

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

SECRET

Page 1.
AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday 8th. June, 1940.
No. 28688

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1023.5	0	E	3	b	79	35	8	-	-	-	0	0	-
	Croydon ...	1023.1	+2	ENE	3	b	78	45	8	-	-	-	0	0	-
	S. Farnborough	1022.8	0	NE'E	3	bc	81	25	8	-	-	8	0	4-6	-
	Boscombe Down	1022.0	-2	ENE	3	zo	81	35	7	1	-	-	1	1	4000
	Calshot (Soton.)	1022.3	+2	SE	4	b	72	65	7	1	-	-	1	1	4000
	Lympne ...	1023.4	+2	NE'N	4	b	74	45	8	-	-	-	0	0	-
	Manston ...	1022.4	+2	NE'E	4	b	70	55	8	-	-	-	0	0	-
2	Shoeburyness ...	1024.4	0	ENE	2	b	67	65	8	-	-	-	0	0	-
	Felixstowe ...	1024.0	-2	E'N	3	b	66	65	8	-	-	-	0	0	-
	Gorleston ...	1024.8	+2	NE'N	3	b	58	85	5	5	-	-	Tr	Tr	2500
	Mildenhall ...	1023.8	-2	NE'N	2	b	80	45	8	-	-	-	0	0	-
	Cranwell ...	1024.6	-4	SE	2	b	80	35	8	-	-	-	0	0	-
3	Birmingham	1023.6	0	SE	2	b	78	46	8	-	-	-	Tr	Tr	4000
	Upper Heyford	1023.3	+2	E'N	3	b	79	45	8	-	-	5	0	Tr	-
4	Ross-on-Wye ...	1023.4	-4	E	3	bc	79	55	8	1	-	-	2-3	2-3	4000
5	Hartland Point	1021.8	+4	NE	2	b	71	65	8	-	-	-	0	0	-
	Bristol ...	1022.7	-2	E	2	b	82	45	8	1	-	-	1	1	4000
	Portland Bill ...	1022.5	+4	NE	3	b	66	85	8	-	-	-	0	0	-
	Plymouth ...	1021.6	+2	ENE	4	zo	76	55	7	-	-	-	0	0	-
	The Lizard ...	1022.6	+6	ENE	4	b	66	75	7	-	-	-	0	0	-
	Scilly (St. Mary's)	1021.5	+6	ENE	3	b	71	75	7	-	-	-	0	0	-
	Guernsey ...	1021.0	+8	ENE	1	b	67	75	7	-	-	-	0	0	-
6	Pembroke ...	1022.6	0	-	0	b	67	75	7	-	-	-	0	0	-
7	Holyhead ...	1023.6	+2	WNW	1	b	63	75	8	-	-	-	0	0	-
	Chester (Sealand)	1023.3	-6	SE	1	b	80	45	7	1	-	-	Tr	Tr	4000
8	Manchester ...	1023.3	-6	SSE	3	b	83	35	8	-	-	-	0	0	-
10	Spurn Head ...	1025.1	0	E'N	3	b	64	75	6	5	-	-	1	1	800
	Catterick ...	1023.5	-6	S'W	2	b	81	35	8	2	-	-	Tr	Tr	5700
	Tynemouth ...	1024.6	-6	E	3	oF	59	92	1	5	-	-	10	10	1500
11	St. Abbs Head	1025.2	0	SE	2	F	56	92	1	-	-	-	10	10	<150
	Leuchars ...	1025.3	-6	E	1	zo	58	85	6	5	-	-	9+	9+	1500
12	Renfrew (Abbots I.)	1023.6	-10	-	0	zo	77	55	6	-	-	-	0	0	-
	Eskdalemuir ...	1022.9	-2	SW'W	2	b	77	45	8	8	-	-	1	1	4000
	Point of Ayre ...	1023.9	0	S'E	4	b	72	65	8	-	-	-	0	0	-
13A	Tiree ...	1022.4	0	SSE	2	b	73	55	8	-	-	-	0	0	-
13B	Stornoway ...	1023.1	-8	ESE	2	b	62	85	7	-	-	-	0	0	-
15	Dalwhinnie ...	1023.9	-4	SW	3	bc	78	45	8	4	6	-	2-3	4-6	4000
	Aberdeen ...	1025.1	-4	S'E	3	cjf	55	85	6	5	3	-	9+	9+	450
	Wick ...	1024.9	-4	SE	3	o	52	97	6	5	-	-	10	10	450
16	Lerwick...	1026.3	-8	S	3	c	53	75	8	5	7	-	4-6	7-8	1500
17	Blacksod Point..	1022.6	+2	W	1	bc	72	65	7	2	-	2	1	2-3	4000
18	Malin Head ...	1022.7	-2	E	1	zo	64	65	7	-	6	-	0	2-3	-
	Aldergrove ...	1022.5	-6	ESE	1	zo	78	65	6	1	-	-	1	1	4000
19	Birr Castle ...	1022.2	-2	S	1	c	80	45	7	8	-	8	4-6	7-8	1500
20	Valentia Obsy. †	1022.7	+6	W	3	b	67	75	7	1	-	-	Tr	Tr	4000
	Roches Point ...	1022.5	+4	ESE	3	b	67	85	8	-	-	-	0	0	-

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.—13h. 7th. (37)	Weather 13h.—18h. 7th. (38)	Weather 18h. 7th to 1h. 8th. (39)	Weather 1h.—7h. 8th. (40)
London (Kew)...	1022.9	-2	SE	3	b	79	35	8	-	-	-	0	0	-	0	*	bzby	by	bybw	bbmow
Croydon ...	1022.6	-4	E'S	2	b	77	55	8	-	-	1	0	1	-	0	*	bby	by	bybccuow	bmofb
S. Farnborough	1022.7	+2	ENE	3	b	79	35	8	-	-	8	0	1	-	0	*	b	bcbyv	byw	bfmo
Boscombe Down	1022.5	+8	SSE	3	b	78	45	8	-	-	-	0	-	-	0	*	bzobczo	by	b	bw
Calshot (Soton.)	1022.7	+2	SE'E	4	b	66	75	7	-	1	-	0	Tr	-	0	2	bmob	b	bbmow	bmo
Lympne ...	1023.2	+2	NE'N	3	b	69	55	9	-	-	5	0	1	-	0	§3	by	by	bybbmow	bmowofcmo
Manston ...	1023.6	-2	NE'E	3	bc	62	75	8	5	-	1	Tr	2-3	1500	0	*	bby	byb	1foF	odFf
Shoeburyness ...	1024.1	0	E'N	2	b	65	65	8	7	-	-	Tr	Tr	4000	0	*	b	b	bcm	cmFofew
Felixstowe ...	1023.9	0	ENE	4	zo	58	85	5	5	-	1	2-3	2-3	220	0	2	bvy	bvbcmo	01fdodo	ododoff
Gorleston ...	1024.3	-4	NE'N	2	c	55	85	5	5	-	-	10	10	1500	0	:	bzo	bofczo	coffe	offe
Mildenhall ...	1023.0	-2	NE'E	3	b	78	45	9	-	-	5	0	2-3	-	0	*	by	by	bybcbmow	bFbcbmo
Cranwell ...	1023.9	-2	SE	3	b	76	35	8	-	3	-	0	Tr	-	0	*	by	by	bbmo	bmof,b
Birmingham	1022.9	-2	SSE	2	b	79	35	8	-	-	-	0	0	-	0	*	b	b	b	b
Upper Heyford	1023.0	-2	ESE	2	b	80	45	8	-	-	8	0	Tr	-	0	*	b	by	bbzo	bbw
Ross-on-Wye ...	1022.1	0	E	2	b	80	45	8	1	-	-	1	1	4000	0	*	by	by	b	bmowcbz
Hartland Point	1021.7	0	SSW	2	b	76	55	8	-	-	-	0	0	-	0	1	b	by	b	b
Bristol ...	1021.9	-4	E	2	b	82	45	8	4	-	-	2-3	2-3	4000	0	*	by	by	bybmow	bmobw
Portland Bill ...	1022.4	+4	E	3	bc	62	85	8	5	-	-	2-3	2-3	4000	0	3	bcb	bcbc	bc	b
Plymouth ...	1022.7	+6	E	2	b	74	65	8	-	-	-	0	0	-	0	1	by	by	byb	b
The Lizard ...	1022.2	+2	ENE	4	b	64	85	8	-	-	-	0	0	-	0	3	b	b	bc	bc
Scilly (St. Mary's)	1021.8	0	ENE	2	b	68	75	7	-	-	-	0	0	-	0	1	b	b	b	b
Guernsey ...	1021.1	0	ENE	2	b	66	75	7	-	-	-	0	0	-	0	1	b	b	b	b
Pembroke ...	1022.3	-4	NW'N	1	b	73	65	7	-	-	-	0	0	-	0	1	bzo	bzo	bzo	bcbz-
Holyhead ...	1022.5	-6	NW'W	1	b	69	55	8	-	-	-	0	0	-	0	1	b	byb	bywb	bwb
Chester (Sealand)	1022.3	-10	ESE	1	zo	80	55	6	-	-	-	0	0	-	0	*	bzoby	*	byzomomw	bmwmo
Manchester ...	1022.4	-6	SSW	3	b	82	35	8	1	-	-	Tr	Tr	4000	0	*	by	by	bzomo	bcmobmo
Spurn Head ...	1024.0	-4	E'S	4	F	54	97	1	-	-	-	10	10	<150	0	2	bbc	bff	ff	Ff
Catterick ...	1022.1	-6	-	0	b	78	45	8	4	-	-	Tr	Tr	5700	0	*	by	by	mzomo	bmowb
Tynemouth ...	1023.9	+10	ESE	2	oF	55	92	1	5	-	-	10	10	1500	0	0	bcboff	oFF	cFcff	bcffb
St. Abbs Head	1023.0	-4	SE	4	F	54	97	1	-	-	-	10	10	<150	1	2	Ffe	FSe	Ffe	Ffe
Leuchars ...	1023.7	-6	NE	1	zo	56	92	4	5	-	-	10	10	450	0	*	ododocm	cmocm	cmoffdofidm	dcomoffom
Renfrew (Abbots I.)	1022.3	-2	SW	2	bc	77	55	7	8	6	-	4-6	4-6	5700	0	*	bmozo	bzocoy	bzomow	bmffof
Eskdalemuir ...	1021.9	-4	WSW	2	b	75	55	8	2	-	-	Tr	Tr	4000	0	*	by	by	byb	b
Point of Ayre ...	1023.2	-2	NW'W	3	b	67	75	8	-	-	-	0	0	-	0	0	b	b	b	b
Tiree ...	1022.4	0	S	1	bc	69	65	8	1	-	6	Tr	2-3	4000	0	1	b	b	bcb	bF
Stornoway ...	1021.8	-4	S	2	b	66	65	7	5	-	6	Tr	1	4000	0	1	Fcb	b	bb:	cbc
Dalwhinnie ...	1023.0	-2	W	3	c	78	55	8	4	7	1	4-6	9	4000	0	*	cbc	bcc	*	bc
Aberdeen ...	1023.7	-6	S	3	o	54	92	6	5	-	-	10	10	800	0	1	ocido	cozo	oido	om
Wick ...	1023.4	-10	SE	3	o	53	97	5	5	-	-	10	10	450	0	1	ffdo	moo	moFf	Ffef
Lerwick...	1025.0	-4	S'W	3	c	52	85	8	5	7	-	4-6	7-8	1500	0	*	bcc	c	bcc	coido
Blacksod Point..	1022.2	0	N	2	b	69	75	7	-	-	-	0	0	-	0	1	bc	bb	b	fbc
Malin Head ...	1021.9	-2	E	1	zo	68	65	7	-	-	-	0	0	-	0	0	bzozb	bczozb	bc	cczozc
Aldergrove ...	1021.9	-2	SE'S	2	b	76	65	7	2	-	-	1	1	4000	0	*	bzo	bzobcy	bbw	bwctlb
Birr Castle ...	1021.8	+2	S	1	c/ric	75	65	7	8	1	-	7-8	10	1500	0	:	bbccy	crl	cb	b
Valentia Obsy. †	1022.4	-2	W	2	b	67	75	7	-	-	-	0	0	-	0	1	b	b	bbcbwmo	bwmob
Roches Point ...	1022.5	0	E'S	2	b	68	75	8	1	-	-	Tr	Tr	4000	0	1	bcb	b	bw	ffeb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

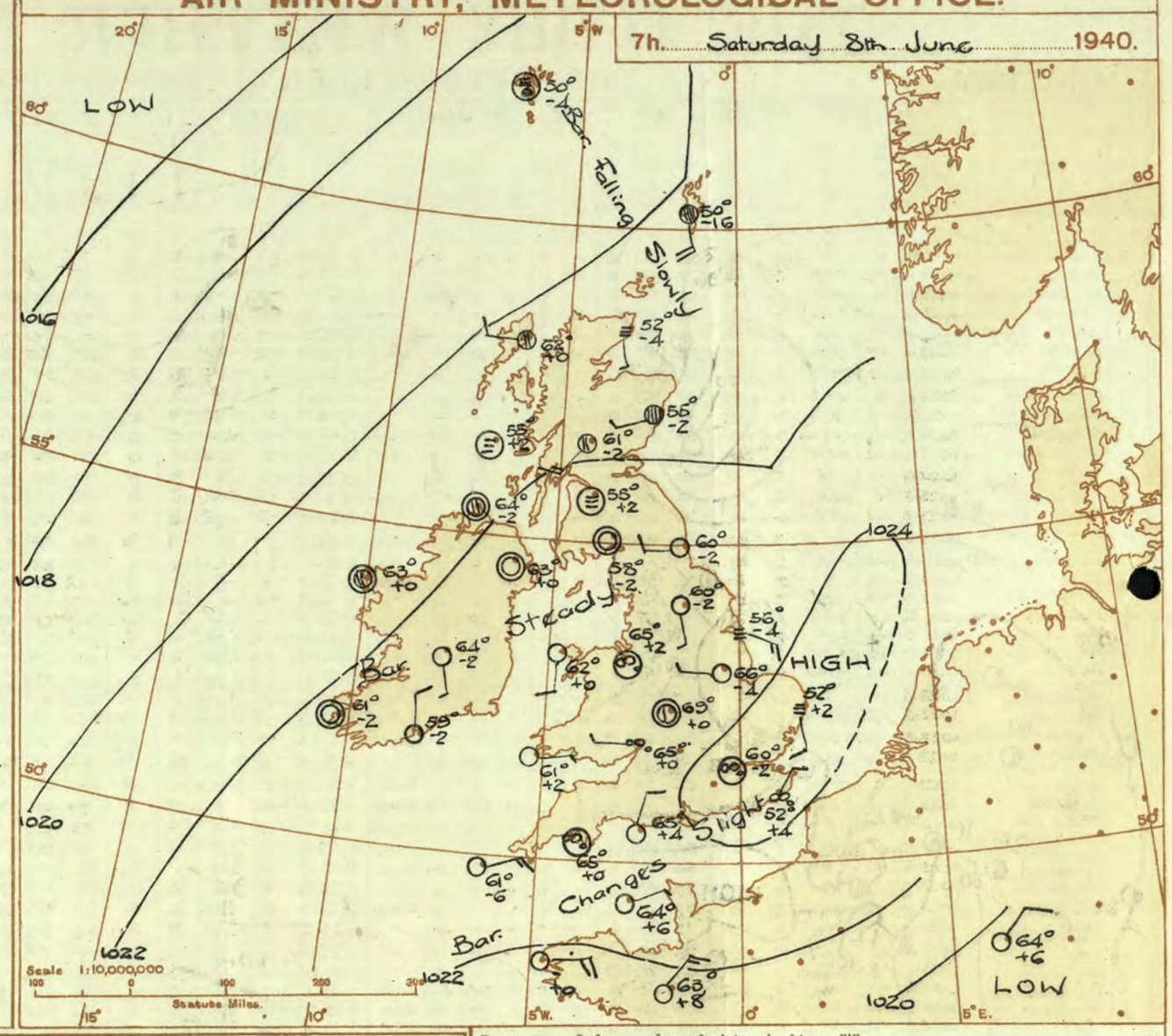
Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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 June, 1940
1 S.E. England 2 E. England ...	Light variable winds; fine; local coast fog; very warm inland.
3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light variable winds; mainly fine; chance of local thunderstorms; very 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	Light variable or southwest wind; considerable bright periods, local thunderstorms; local coast fog; very warm inland.
16 Orkneys and Shetlands	Moderate south to southwest wind; cloudy; fog at times; rather warm inland
17 N. W. Ireland 18 N. E. Ireland 19 S E. Ireland 20 S. W. Ireland	As 7 - 15

GENERAL INFERENCE.

A belt of high pressure extends from east of the Azores across South England to the North Sea. A feeble trough of low pressure east of Scotland is moving slowly east and a trough is approaching West Ireland. Weather will be fine in the South. In the North and Midlands there will be considerable bright periods and local thunderstorms.

FURTHER OUTLOOK.

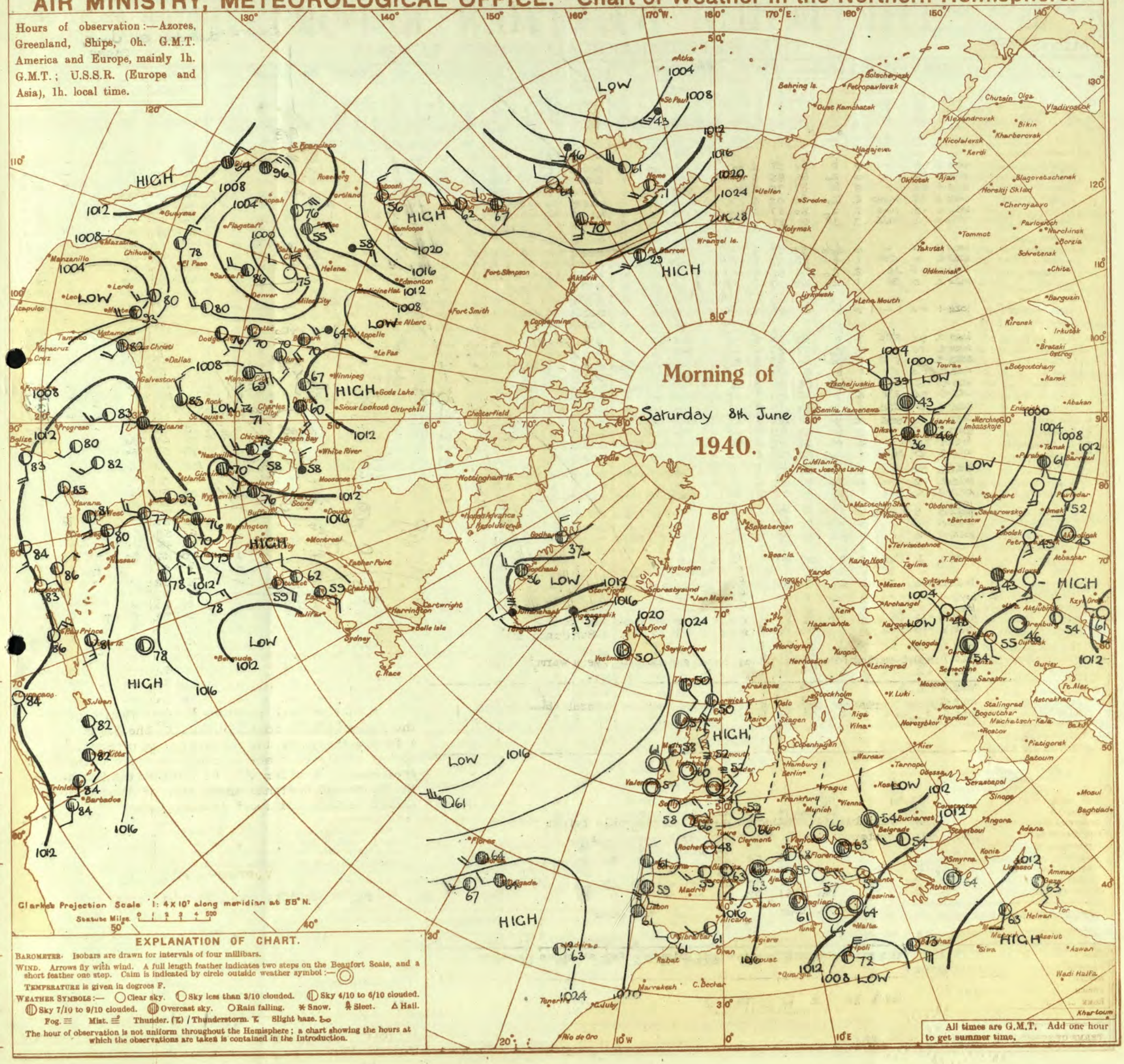
Bright periods; local thunderstorms.

Forecasts issued at 1030 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 8th June, 1940.

No. 28688

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

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	1023·9	+4	–	0	b	54	97	6	–	–	–	0	0	–
	S. Farnborough	226	1024·4	+6	–	0	zo	52	85	6	–	–	–	0	0	–
	Boscombe Down	417	1024·4	+4	–	0	b	57	75	8	–	–	–	0	0	–
	Calshot (Sthmtn.)	8	1023·5	+2	NNW	2	zo	60	92	6	–	–	–	0	0	–
	Lympne ...	346	1024·2	+2	NNE	2	zo	50	97	5	–	–	–	0	0	–
	Manston ...	154	1024·4	-2	NE'E	3	df	51	97	1	–	–	–	10	10	<150
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1024·7	0	–	0	dzdz	53	97	3	–	–	–	10	10	<150
	Gorleston ...	5	1024·6	0	ESE	1	f	53	97	2	–	–	–	10	10	<150
	Mildenhall ...	19	1024·0	-6	SE	2	zo	54	92	6	–	–	–	0	0	–
	Cranwell ...	240	1024·2	0	SE	1	zo	49	97	6	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1024·1	+4	–	0	b	61	65	7	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1023·2	+4	ESE	2	b	62	75	8	–	–	–	0	0	–
	Bristol ...	209	1024·2	+4	–	0	zo	57	85	6	–	–	–	0	0	–
	Portland Bill ...	32	1023·2	0	E	3	bc	60	85	8	5	–	–	4·6	4·6	4000
	Plymouth ...	82	1023·5	+4	E	1	b	61	65	7	–	–	–	0	10	=
	The Lizard ...	240	1022·9	+6	ENE	4	bc	59	85	8	4	–	–	2·3	2·3	2500
	Scilly (St. Mary's)	163	1022·8	+4	E'N	3	b	58	92	7	–	–	–	0	0	–
	Guernsey ...	175	1022·4	0	ESE	1	b	60	75	7	–	–	–	0	0	–
6	Pembroke ...	142	1023·4	+2	SSE	2	b	61	85	7	–	–	–	0	0	–
7	Holyhead ...	26	1022·7	-2	–	0	b	60	85	7	–	–	–	0	0	–
	Chester (Sealand)	16	1023·1	-2	–	0	m	59	92	4	5	–	–	1	1	5700
8	Manchester ...	70	1023·3	0	SE'E	1	zo	62	75	6	–	–	–	0	0	–
10	Spurn Head ...	29	1023·3	+4	SE	3	F-	52	97	1	–	–	–	10	10	<150
	Catterick ...	175	1023·2	+2	–	0	zo	57	92	6	–	–	–	0	0	–
	Tynemouth ...	108	1023·4	-6	NW	1	cf	52	97	3	5	–	–	7·8	7·8	1500
11	St. Abbs Head	280	1022·8	-8	WNW	2	F	51	97	1	–	–	–	10	10	<150
	Leuchars ...	36	1023·0	-6	–	0	ido	54	97	4	5	–	–	10	10	<150
12	Renfrew (Abbots I.)	19	1022·8	+2	–	0	zo	56	97	5	5	–	–	2·3	2·3	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1023·1	2	S'W	2	b	54	97	7	–	–	–	0	0	–
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1022·0	-2	–	0	c	57	92	7	5	5	4	4·6	7·8	4000
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1022·0	-10	SE	3	F+	51	97	1	–	–	–	10	10	<150
16	Lerwick ...	156	1024·2	-10	SSW	3	c	50	92	8	5	7	–	7·8	10	1500
17	Blacksod Point	18	1022·1	-2	–	0	b	61	92	7	–	–	–	0	0	–
18	Malin Head ...	84	1022·7	-2	SSW	1	bc	58	75	8	4	–	2	2·3	4·6	5700
	Aldergrove ...	268	1022·8	+2	SE'E	2	b	58	85	7	–	–	–	0	0	–
19	Birr Castle ...	173	1022·8	-2	S	1	b	50	85	8	–	–	–	0	0	–
20	Valentia Obsy.	30	1022·5	0	–	0	zo	57	97	6	–	–	–	0	0	–
	Roches Point	22	1023·2	0	ENE	2	b	56	97	8	–	–	–	0	0	–

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1024·2	+2	–	0	b	61	85	5	–	–	–	0	0	–	0	*
Croydon ...	1024·0	-2	–	0	zo	60	85	6	–	–	–	0	0	–	0	*
S. Farnborough	1024·1	+2	–	0	zo	58	85	6	–	–	–	0	0	–	0	*
Boscombe Down	1024·0	-2	–	0	b	63	65	7	–	–	–	0	0	–	0	*
Calshot (Sthmtn.)	1023·9	+6	NNW	1	zo	62	75	6	–	–	–	0	0	–	0	1
Lympne ...	1024·5	+4	NNE	2	zo	52	97	5	5	–	–	4·6	4·6	220	0	2
Manston ...	1024·6	+2	ENE	2	c/f	52	97	5	5	–	–	9+	10	<150	0	*
Shoeburyness ...	1024·8	+4	E	1	of	55	97	3	5	–	–	10	10	450	0	*
Felixstowe ...	1024·6	+2	NE	1	m	52	97	4	5	–	–	10	10	220	0	1
Gorleston ...	1024·6	+2	S'E	2	f-	52	97	2	–	–	–	10	10	<150	1	1
Mildenhall ...	1023·8	+2	SE'E	2	zo	57	85	6	–	–	–	0	0	–	0	*
Cranwell ...	1023·5	-4	W'N	1	b	66	65	7	–	–	–	0	0	–	0	*
Birmingham ...	1023·2	0	–	0	b	60	65	7	2	–	–	1	1	4000	0	*
Upper Heyford	1023·6	-6	SSW	1	b	65	75	7	–	–	–	0	0	–	0	*
Ross-on-Wye	1023·6	0	W	1	zo	65	75	6	–	8	–	0	Tr	–	0	*
Hartland Point	1023·1	+2	E	2	b	68	65	8	–	–	–	0	0	–	0	1
Bristol ...	1024·2	-2	–	0	zo	65	65	7	–	–	–	0	0	–	0	*
Portland Bill ...	1024·0	+4	NNE	2	b	65	75	8	–	–	–	0	0	–	0	2
Plymouth ...	1023·5	0	–	0	zo	65	65	6	–	–	–	0	0	–	0	1
The Lizard ...	1023·3	0	ENE	4	bc	62	85	8	4	–	–	2·3	2·3	2500	0	2
Scilly (St. Mary's)	1022·3	-6	E'N	3	b	61	85	8	–	–	–	0	0	–	0	2
Guernsey ...	1022·4	+6	E'N	1	b	64	65	7	–	–	–	0	0	–	0	1
Pembroke ...	1023·8	+2	E	1	b	61	85	7	–	–	–	0	0	–	0	1
Holyhead ...	1023·0	0	SW	2	b	62	85	7	–	–	–	0	0	–	0	1
Chester (Sealand)	1023·1	+2	–	0	zo	65	75	5	–	3	–	0	2·3	–	0	*
Manchester ...	1023·3	+2	–	0	zo	65	65	5	–	–	–	0	0	–	0	*
Spurn Head ...	1022·7	-4	SE	3	F	56	97	1	–	–	–	10	10	<150	0	2
Catterick ...	1022·5	-2	S'E	1	b	60	85	7	–	–	–	0	0	–	0	*
Tynemouth ...	1022·2	-2	W	2	b	60	75	5	–	–	–	0	0	–	0	1
St. Abbs Head	1021·8	-4	ESE	2	F	52	97	1	–	–	–	10	10	<150	1	1
Leuchars ...	1021·6	-4	W	2	m/f	55	97	4	5	–	–	10	10	<150	0	*
Renfrew (Abbots I.)	1022·7	+2	–	0	f-	55	97	2	–	–	–	10	10	<150	0	*
Eskdalemuir ...	1022·7	-2	–	0	b	58	85	7	–	–	–	0	0	–	0	*
Point of Ayre ...	1022·6	0	–	0	b	65	75	8	–	–	–	0	0	–	0	0
Tiree ...	1021·5	+2	–	0	F	55	92	1	–	–	–	10	10	<150	0	1
Stornoway ...	1020·3	0	W	2	bc	62	85	7	5	–	–	4·6	4·6	4000	0	1
Dalwhirnie ...	1021·9	-2	SW	3	bc	61	85	8	–	–	4	0	2·3	–	0	*
Aberdeen ...	1020·9	-2	WSW	1	om	55	92	4	5	–	–	10	10	<150	0	1
Wick ...	1019·9	-4	S	1	cf-	52	97	3	5	7	–	7·8	7·8	1500	0	1
Lerwick ...	1021·2	-16	S'W	4	o/d	50	97	5	5	–	–	10	10	450	1	*
Blacksod Point	1021·5	0	–	0	bc	63	97	7	–	4	–	0	2·3	–	0	1
Malin Head ...	1021·3	-2	–	0	zo	64	97	7	–	9	–	0	4·6	–	0	0
Aldergrove ...	1022·1	0	–	0	b	63	85	7	–	–	–	0	0	–	0	*
Birr Castle ...	1022·5	-2	S	1	b	64	75	8	–	–	–	0	0	–	0	*
Valentia Obsy.	1022·0	-2	–	0	b	61	92	7	–	–	–	0	0	–	0	0
Roches Point	1022·2	-2	N	2	b/f	59	97	7	–	–	–	0	0	–	0	1

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 7th Hrs. (36)
London (Kew)	81	53	48	–	–	14·8
Croydon ...	79	50	42	–	–	15·3
S. Farnborough	83	47	42	–	–	14·9
Boscombe Down	84	51	43	–	–	14·5
Calshot (Sthmtn.)	75	55	49	–	–	15·1
Lympne ...	74	49	47	–	–	16·2
Manston ...	76	50	49	–	Tr	15·1
Shoeburyness ...	71	53	55	–	–	14·8
Felixstowe ...	69	52	52	–	Tr	15·0
Gorleston ...	68	50	50	–	–	12·7
Mildenhall ...	81	49	44	–	–	15·7
Cranwell ...	82	46	40	–	–	15·8
Birmingham ...	81	61	48	*	–	15·0
Upper Heyford	82	55	45	–	–	*
Ross-on-Wye	83	57	50	–	–	14·9
Hartland Point	78	60	56	–	–	14·7
Bristol ...	84	53	45	–	–	13·5
Portland Bill ...	67	57	*	–	–	*
Plymouth ...	(76)	54	41	–	–	14·7
The Lizard ...	66	57	*	–	–	14·7
Scilly (St. Mary's)	71	57	*	–	–	13·4
Guernsey ...	72	53	45	–	–	15·1
Pembroke ...	73	56	*	–	–	14·0
Holyhead ...	70	62	44	–	–	14·8
Chester (Sealand)	83	57	50	–	–	14·5
Manchester ...	83	54	49	–	–	14·4
Spurn Head ...	67	50	*	–	Tr	12·5
Catterick ...	83	53	44	–	–	13·8
Tynemouth ...	60	50	48	–	–	*
St. Abbs Head	58	52	*	–	Tr	*
Leuchars ...	61	53	52	Tr	Tr	1·1
Renfrew (Abbots I.)	82	48	45	–	–	13·3
Eskdalemuir ...	79	46	39	–	–	14·6
Point of Ayre ...	*	51	*	–	–	14·4
Tiree ...	76	52	*	–	–	14·4
Stornoway ...	67	55	*	–	–	9·2
Dalwhirnie ...	80	48	41	–	–	12·5
Aberdeen ...	57	52	51	Tr	Tr	0·4
Wick ...	53	50	*	Tr	–	*
Lerwick ...	55	49	*	–	Tr	8·5
Blacksod Point	75	57	*	–	–	*
Malin Head ...	72	54	*	–	–	14·8
Aldergrove ...	80	57	54	–	–	12·9
Birr Castle ...	83	53	49	–	–	10·4
Valentia Obsy.	71	54	48	–	Tr	13·9
Roches Point	71	56	*	–	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	bzoby	by	bybwm	81	53	43	–	–	14·8	•	•	6
Croydon ...	217	bby	by	bybccmw	79	50	42	–	–	15·3	•	•	6
Greenwich (Royal Observatory) ...	149	by	by	bcfb	79	53	44	–	–	15·1	34	65	6
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	80	55	49	–	–	14·7	49	68	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	82	54	48	–	–	*	33	59	•
Camden Square ...	110	b	b	•	85	55	48	–	–	•	•	69	•
Kensington ...	80	b	bz	•	84	54	47	–	–	*	43	63	•
Hampstead Observatory ...	450	b	b	bm	81	53	46	–	–	*	•	72	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
0·2	7·0h 7th	<0·1	15·23h 7th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 7th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 8th June 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 ...	1018·5	NE	4	b	77	1023·3	NE	2	bc	61	82	54	–	–
Brussels ...														
Berlin ...														
Zürich ...	1011·5	SE	2	bc	73						•	•	–	
Rome ...														

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30 — Code for State of Sea.

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Sunday 9th June 1940.

No. 28689.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1021.8	-18	W	1	bc	81	35	8	1	-	-	4-6	4-6	4000
	Croydon	1021.8	-14	W'N	1	b	81	45	7	1	-	-	2-3	2-3	4000
	S. Farnborough	1021.7	-14	WSW	1	bc	83	35	8	1	-	-	2-3	2-3	4000
	Boscombe Down	1022.2	-14	W'S	1	bc	83	35	8	1	-	-	4-6	4-6	4000
	Calshot (Soton.)	1022.7	-10	SSE	3	b	72	73	7	1	-	-	1	1	4000
	Lympne	1023.2	-8	SSE	2	b	62	75	8	-	-	-	0	0	-
	Manston	1022.9	-14	S	2	b	63	65	7	-	-	-	0	0	-
2	Shoeburyness	1023.3	-12	ESE	2	b	62	85	8	-	-	-	0	0	-
	Felixstowe	1023.4	-2	S'E	3	z_o	61	75	6	2	-	-	Tr	Tr	2500
	Gorleston	1022.4	-16	SSE	4	c	57	85	5	5	-	-	9	9	1500
	Mildenhall	1021.6	-14	W	1	b	84	35	9	2	-	3	1	1	4000
	Cranwell	1021.8	-12	W'N	3	t	85	35	7	9	-	3	4-6	4-6	2500
3	Birmingham	1021.7	-10	NW	2	bc	81	45	8	1	-	-	4-6	4-6	4000
	Upper Heyford	1021.8	-12	NNW	2	pr_o	83	45	7	3	-	-	7-8	7-8	2500
4	Ross-on-Wye	1021.9	-12	WNW	2	bc	80	45	7	2	-	-	4-6	4-6	4000
5	Hartland Point	1022.3	-8	NNE	1	b	70	55	8	1	-	-	Tr	Tr	4000
	Bristol	1022.6	-12	WSW	2	b	81	45	8	1	-	-	Tr	Tr	4000
	Portland Bill	1022.9	-6	S	2	b	64	85	8	-	-	-	0	0	-
	Plymouth	1022.9	-6	SSW	2	b	69	65	7	-	-	-	0	0	-
	The Lizard	1023.3	0	E'N	4	bc	66	75	8	4	-	-	2-3	2-3	4000
	Scilly (St. Mary's)	1022.2	-4	E'S	4	b	62	75	7	-	-	-	0	0	-
	Guernsey	1022.4	-4	E'N	1	b	70	65	7	-	-	-	0	0	-
6	Pembroke	1022.6	-8	SSE	2	bc	67	55	7	2	-	-	2-3	2-3	2500
7	Holyhead	1021.9	-10	SSW	3	b	69	65	8	-	-	-	0	0	-
	Chester (Sealand)	1021.9	-10	WNW	3	b	78	55	7	2	-	-	2-3	2-3	2500
8	Manchester	1021.5	-10	W'S	4	b	82	35	7	-	-	-	0	0	-
10	Spurn Head	1020.7	-10	SE'E	1	b	69	75	6	-	-	-	0	0	-
	Catterick	1020.4	-10	NW'N	2	b	83	35	7	2	-	-	4-6	4-6	2500
	Tynemouth	1020.2	-8	WSW	2	bc	80	45	6	2	3	-	2-3	2-3	2500
11	St. Abbs Head	1019.5	-18	NW	2	bc	73	45	7	5	4	4	1	2-3	2500
	Leuchars	1019.1	-14	-	0	bc	82	45	8	2	3	-	2-3	2-3	4000
12	Renfrew (Abbots I.)	1020.3	-14	SSW	2	bc	79	55	7	2	3	-	1	4-6	4000
	Eskdalemuir	1019.7	-10	SW'W	3	bc	76	55	7	8	-	-	2-3	2-3	2500
	Point of Ayre	1021.8	-6	SE	2	b	68	65	8	-	-	-	0	0	-
13A	Tiree	1020.1	-4	N'W	1	f	58	85	3	-	-	-	10	10	<150
13B	Stornoway	1020.1	0	W	2	bc	67	75	7	5	7	1	4-6	4-6	4000
15	Dalwhinnie	1020.2	-12	WSW	4	bc	75	48	8	4	6	1	2-3	4-6	4000
	Aberdeen	1019.5	-10	E	2	cjf	61	75	6	2	-	9	2-3	10	4000
	Wick	1019.0	-4	S	1	bc	59	92	6	7	1	-	1	4-6	1500
16	Lerwick	1018.8	-12	S'W	4	f	52	97	2	-	-	-	10	10	<150
17	Blacksod Point	1020.1	-6	WNW	2	b	69	85	7	-	-	-	0	0	-
18	Malin Head	1020.7	-10	SE	1	z_o	65	75	7	-	-	4	0	2-3	-
	Aldergrove	1019.8	-16	SW'S	2	b	80	45	7	2	-	7	Tr	Tr	4000
19	Birr Castle	1020.3	-12	SSW	2	bc	82	35	8	1	-	-	2-3	2-3	4000
20	Valentia Obsy. †	1019.2	-14	S	5	b	78	55	7	7	3	-	1	2-3	4000
	Roches Point	1021.2	+6	E'S	3	b	67	85	8	-	-	-	0	0	-

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°Temp. (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)	1019.7	-10	S	4	bc	77	55	7	1	-	-	4-6	4-6	4000	0	*
Croydon	1020.1	-6	S	2	b	76	65	7	1	-	-	1	1	4000	0	*
S. Farnborough	1020.2	-4	SW	4	bc	77	55	8	8	6	-	2-3	2-3	4000	0	*
Boscombe Down	1019.9	-14	-	0	bc	78	45	8	5	-	-	4-6	4-6	4000	0	*
Calshot (Soton.)	1021.0	-8	SSW	2	bc	70	65	7	4	-	3	7-8	7-8	5700	0	1
Lympne	1021.2	-12	ESE	2	b	68	45	8	-	-	-	0	0	-	0	§1
Manston	1020.9	-14	SSE	2	b	66	35	8	-	3	-	0	1	-	0	*
Shoeburyness	1020.7	-16	ESE	2	b	69	75	8	4	-	-	Tr	Tr	4000	0	*
Felixstowe	1020.6	-13	S'E	2	b	63	65	8	-	-	3	0	Tr	-	0	1
Gorleston	1019.5	-12	S'E	3	b	63	75	7	-	4	-	0	Tr	-	0	2
Mildenhall	1019.0	-14	S'W	3	bc	81	45	7	2	-	4	1	4-6	4000	0	*
Cranwell	1020.0	-6	NNE	1	z_o	80	35	6	2	-	-	2-3	2-3	4000	0	*
Birmingham	1019.8	-10	W	2	bc	81	35	8	2	6	-	2-3	7-8	4000	0	*
Upper Heyford	1020.3	-10	W'N	2	bc	76	65	7	3	6	1	2-3	4-6	2500	0	*
Ross-on-Wye	1020.0	-12	SW	3	r	79	45	8	8	-	-	7-8	7-8	4000	0	*
Hartland Point	1020.5	-12	NW	1	b	77	45	8	1	-	-	Tr	Tr	4000	0	1
Bristol	1020.8	-10	W'N	2	b	79	45	8	3	6	3	Tr	2-3	4000	0	*
Portland Bill	1021.0	-12	W	2	b	61	85	7	-	-	-	0	0	-	0	2
Plymouth	1021.6	-6	SSW	2	b	65	75	8	1	-	-	Tr	Tr	4000	0	2
The Lizard	1021.0	-10	E'N	2	bc	65	75	8	7	-	-	2-3	2-3	4000	0	2
Scilly (St. Mary's)	1020.8	-10	E'S	3	b	66	85	7	-	-	-	0	0	-	0	2
Guernsey	1020.9	-10	E'N	1	b	69	75	7	-	-	-	0	0	-	0	1
Pembroke	1020.3	-12	SSE	2	b	68	65	8	2	-	-	1	1	2500	0	1
Holyhead	1020.0	-14	SSW	3	b	67	65	8	2	-	-	Tr	Tr	4000	0	2
Chester (Sealand)	1020.4	-6	NW'W	3	b	75	55	7	1	-	-	Tr	Tr	2500	0	*
Manchester	1020.3	-8	NW	3	b	78	45	8	1	-	-	Tr	Tr	4000	0	*
Spurn Head	1019.0	-6	E'S	3	b	63	75	6	1	-	-	1	1	1500	0	2
Catterick	1019.6	+6	ENE	1	b	75	55	7	3	6	-	Tr	1	4000	0	*
Tynemouth	1019.9	0	S	1	bc	74	55	6	2	3	-	2-3	2-3	2500	0	0
St. Abbs Head	1017.5	-12	SW	4	bc	74	45	8	5	4	8	2-3	4-6	1500	0	2
Leuchars	1017.8	-2	NE	2	z_o	73	65	6	8	-	-	4-6	4-6	4000	0	*
Renfrew (Abbots I.)	1018.4	-10	SW'W	3	b	77	65	7	-	-	3	0	1	-	0	*
Eskdalemuir	1018.9	-2	SW'S	3	b	73	55	8	1	-	1	1	1	4000	0	*
Point of Ayre	1019.5	-10	E	1	b	74	56	8	-	-	-	0	0	-	0	0
Tiree	1018.7	-4	N	1	f	56	92	2	-	-	-	10	10	<150	0	2
Stornoway	1019.8	-4	S	1	c	59	92	6	5	7	3	4-6	9	2500	0	1
Dalwhinnie	1018.3	-6	SW	2	bc	73	45	8	4	6	1	2-3	4-6	4000	0	*
Aberdeen	1019.0	-8	E'S	1	b	63	75	6	7	-	-	1	1	4000	0	1
Wick	1018.6	-6	NNW	3	c	58	92	6	5	6	2	4-6	9+	800	0	1
Lerwick	1017.6	-2	WSW	2	o	53	97	5	5	-	-	10	10	220	0	*
Blacksod Point	1017.4	-14	-	0	bc	70	75	7	-	3	-	0	4-6	-	0	0
Malin Head	1019.2	-8	N	1	f	57	97	2	-	-	-	10	10	<150	0	0
Aldergrove	1017.9	-10	SW'W	2	bc	79	45	7	2	-	-	2-3	2-3	4000	0	*
Birr Castle	1018.3	-12	SSW	2	b	79	45	7	-	-	-	0	0	-	0	*
Valentia Obsy. †	1018.1	-6	S	6	b	69	75	8	1	3	-	Tr	Tr	2500	0	3
Roches Point	1019.6	-10	ESE	3	b	66	85	8	-	-	-	0	0	-	0	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 8th (37)	Weather 13h.—18h. 8th (38)	Weather 18h. 8th to 1h. 9th (39)	Weather 1h.—7h. 9th (40)
London (Kew)	bm_obz_obcy	bcy	$bctbccm_o$	bm_ow
Croydon	bm_oz_oy	bycy	bbm_o	bm_ow
S. Farnborough	bbcy	bcy	$bcybm_o$	$bwbcm_o$
Boscombe Down	bm_ob	bccbcy	bcb	bbm_o
Calshot (Soton.)	bm_ob	bby	$bcbbm_ow$	bm_o
Lympne	$bcbm_ob$	bby	byb	b
Manston	om_obm_ob	bby	$bybcz_o$	bzbc
Shoeburyness	$obcm_o$	b	b	$bcbwm_o$
Felixstowe	om_obz_o	bz_ob	b	bcmw
Gorleston	$ofmcz_o$	cz_ob	bcz_o	bcz_o
Mildenhall	bm_oz_oby	bcybbcy	$cprbcm_o$	bcm_owbw
Cranwell	bbcyt	bcz_oy	bcz_oybz_o	bbz_oy
Birmingham	bbc	bc	bc	bcb
Upper Heyford	bc	brHbc	bcb	bcz_o
Ross-on-Wye	bbybcy	bcr_obcy	tbcyb	b
Hartland Point	by	by	by	by
Bristol	by	by	bw	bwm_o
Portland Bill	bb	bb	bc	bc
Plymouth	bz_oby	b	b	bbz_o
The Lizard	bbc	bc	bc	bc
Scilly (St. Mary's)	b	b	bw	bw
Guernsey	b	b	bw	bw
Pembroke	$bbcz_oy$	$bcbz_o$	b	bcm_o
Holyhead	b	b	b	b
Chester (Sealand)	bz_oy	by	bm_ow	bm_owmm_o
Manchester	bm_oyby	by	bbm_o	b
Spurn Head	Fmcb	cz_obc	bbc	bcz_o
Catterick	bz_obcy	bcyby	byb	bw
Tynemouth	bbc	bc	bc	bc
St. Abbs Head	Fbcm	m_ocy	bc	mbc
Leuchars	$ombm_obcy$	bcy bc	$bcmbm_o$	bm_o, of
Renfrew (Abbots I.)	$oFbcz_oy$	bcby	bbz_owf	bffmmw
Eskdalemuir	bbcyr	bcryby	byb	bwb
Point of Ayre	b	b	b	b
Tiree	ifb	ff	f	fb
Stornoway	bcbbc	bcc	cbc	bcc
Dalwhinnie	bc	bc	*.	bc
Aberdeen	cbcb	bz_o	bz_obc	bcoF
Wick	fcmbc	bcm_o	m_oc	m_ocm_o
Lerwick	odffe	offeco	ocm_o	oid_oc
Blacksod Point	bb	bc	bc	c
Malin Head	bcz_ozbc	bcz_ozoFf_o	c	bc
Aldergrove	bby	bybcy	bcyb	b
Birr Castle	bbcy	bcby	b	c
Valentia Obsy. †	$bbcz_ob$	bbcbyb	bbccbcm	$bcwm_opc$
Roches Point	b	b	cw	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

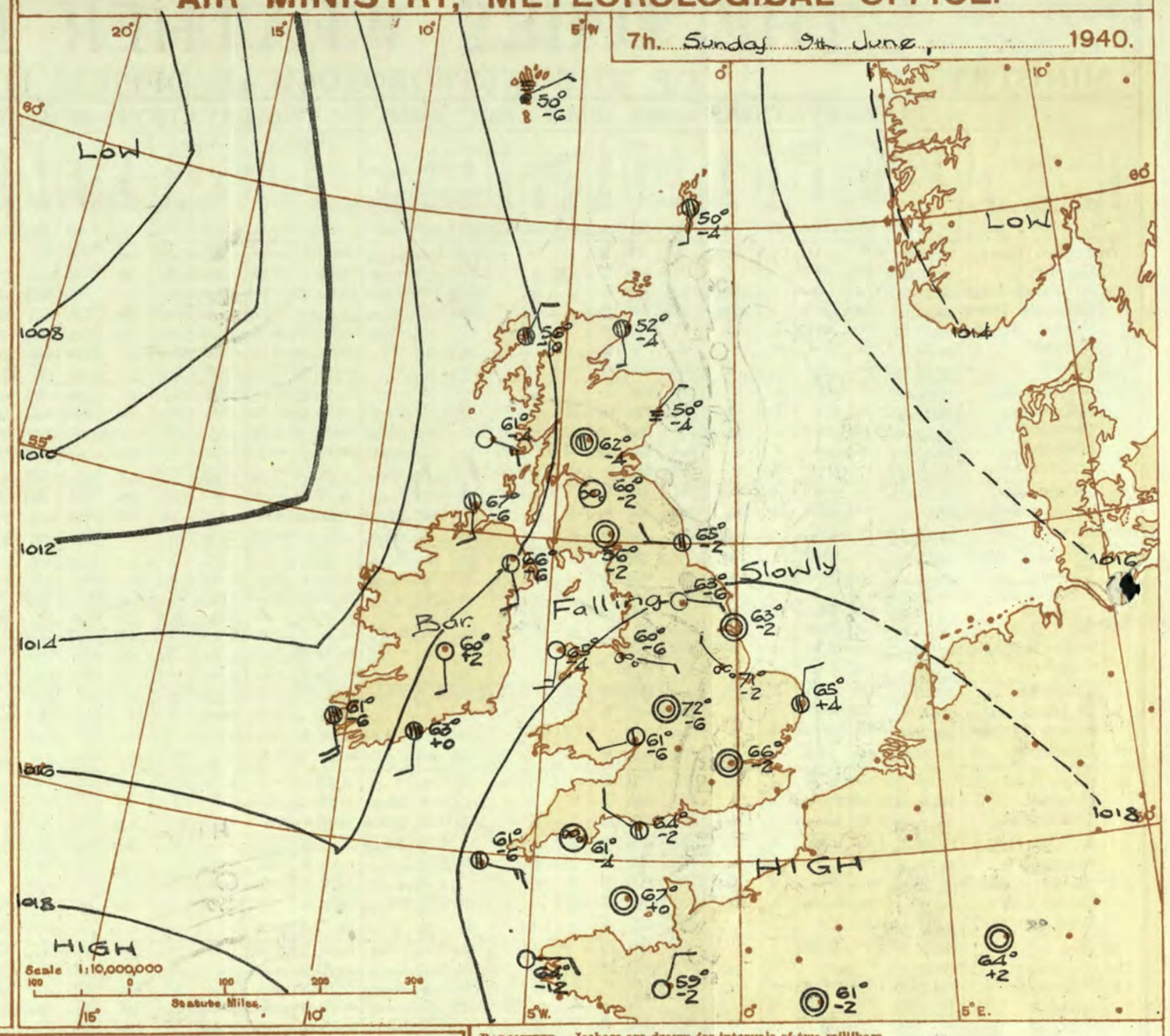
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 9th June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light variable winds, becoming southeast: bright periods; local thunderstorms; more general thundery rain or thunderstorms tomorrow; very warm.
5 S.W. England 6 South Wales ...	Light or moderate southeast wind, veering southwest; bright periods, thunderstorms or thundery rain; very warm, becoming cooler.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light or moderate southeast wind; bright periods, thunderstorms or thundery rain; very warm, becoming cooler.
10 N.E. England 11 S.E. Scotland	Light or moderate southeast wind; bright periods; thunderstorms or thundery rain; coast fog; very warm inland, becoming cooler.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	As 7 - 9
15 N. E. Scotland	As 10 - 11.
16 Orkneys and Shetlands	Light or moderate southeast wind; fog at times; average temperature
17 N.W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate southeast wind, veering southwest; thunderstorms or thundery rain; very warm, becoming much cooler

GENERAL INFERENCE.

A ridge of high pressure extending from France to north of Shetland is decreasing in intensity and a trough of low pressure off West Ireland is moving slowly east. There will be bright periods today and thunderstorms in many districts and more general thundery rain will spread from the West tomorrow.

FURTHER OUTLOOK.

Cooler conditions spreading from the West to all districts

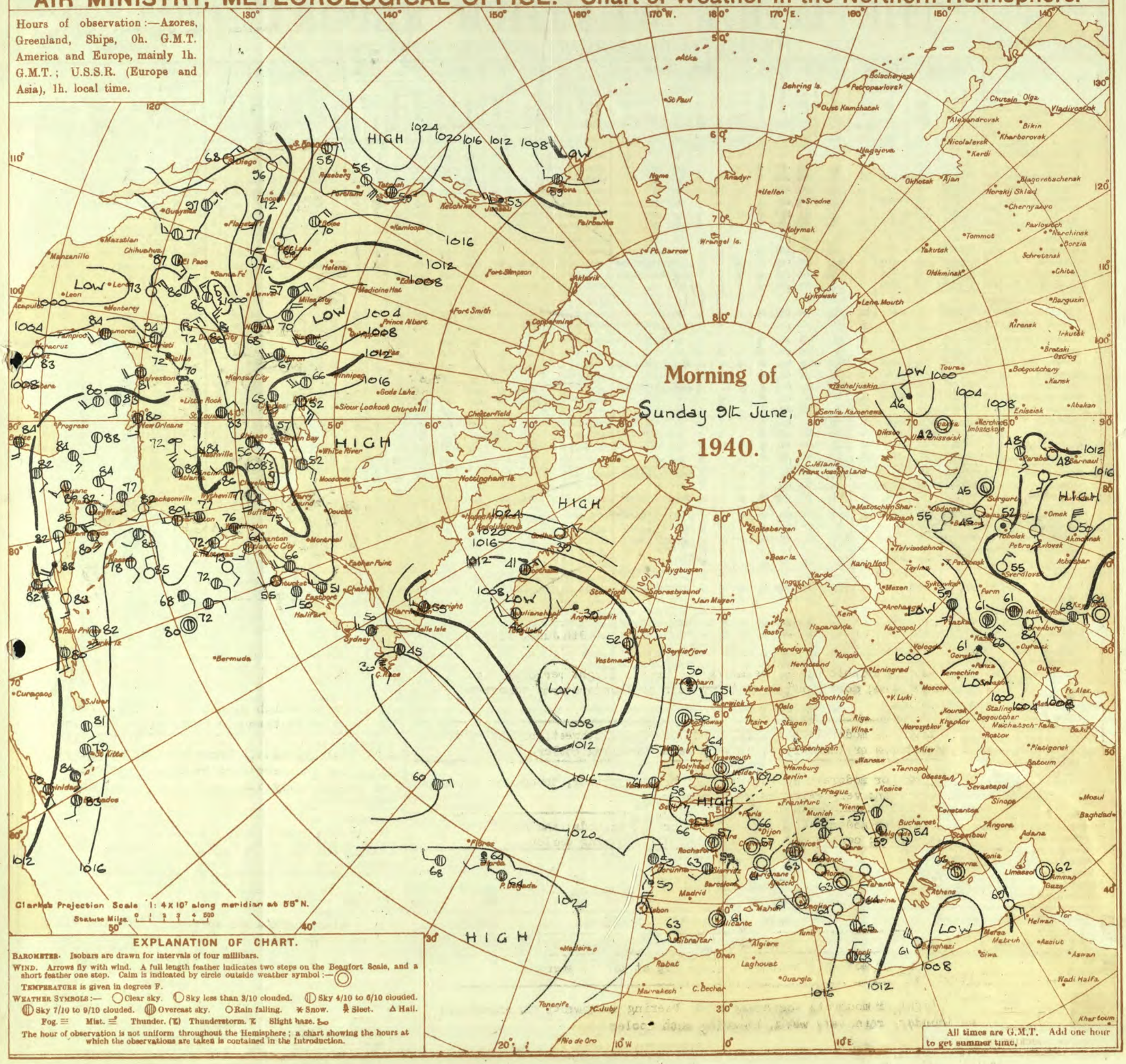
Forecasts issued at 1030 G.M.T

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

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

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

Sunday 9th June 1940.

No 28689

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

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	1019·6	-4	-	0	b	63	85	6	-	-	-	0	0	-
	S. Farnborough	226	1019·8	-4	W'N	1	Zo	56	85	6	-	-	-	0	0	-
	Boscombe Down	417	1020·0	-6	-	0	b	60	75	7	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1020·2	-6	WSW	1	Zo	58	92	6	-	-	-	0	0	-
	Lympne	346	1020·1	-10	W	1	b	60	85	8	-	-	-	0	0	-
	Manston	154	1019·7	-10	WSW	2	Zo	58	75	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1019·3	-6	-	0	Zo	61	92	6	-	6	-	0	2-3	-
	Gorleston	5	1018·7	-4	NW	1	bc	63	75	7	5	-	-	4-6	4-6	2500
	Mildenhall	19	1018·9	-6	SW	1	Zo	61	85	6	5	1	-	2-3	4-6	1500
	Cranwell	240	1020·2	-2	W'N	1	Zo	60	75	6	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1019·9	-2	N	2	Zo	64	75	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1018·4	-10	S	2	b	65	45	8	-	-	1	0	Tr	-
	Bristol	209	1020·9	-2	-	0	b	59	75	7	-	-	-	0	0	-
	Portland Bill	32	1019·8	-6	NW	3	bc	59	85	7	5	-	-	2-3	2-3	4000
	Plymouth	82	1020·4	-10	NE	1	Zo	56	75	7	-	-	-	0	0	-
	The Lizard	240	1020·1	-10	ENE	3	bc	60	85	8	4	-	-	2-3	2-3	4000
	Scilly (St. Mary's)	163	1019·7	-10	ESE	3	b	58	92	7	-	4	-	0	1	-
	Guernsey	175	1020·2	-6	-	0	b	56	85	7	-	-	-	0	0	-
6	Pembroke	142	1020·2	+2	SSE	2	b	60	65	8	-	-	-	0	0	-
7	Holyhead	26	1019·1	-8	S'W	3	b	59	75	8	-	-	-	0	0	-
	Chester (Sealand)	16	1019·9	-4	-	0	Zo	56	92	6	-	-	-	0	0	-
8	Manchester	70	1020·2	-2	-	0	Zo	50	92	5	-	-	-	0	0	-
10	Spurn Head	29	1018·8	-2	-	0	bc	60	85	6	6	-	-	2-3	2-3	800
	Catterick	175	1019·3	-2	-	0	b	56	85	7	-	-	-	0	0	-
	Tynemouth	108	1019·3	-2	W	2	bc	64	65	6	5	-	-	2-3	2-3	1500
11	St. Abbs Head	280	1018·4	+8	-	0	bc	61	85	8	5	-	-	2-3	2-3	2500
	Leuchars	36	1017·8	-2	-	0	b	57	92	6	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	19	1018·0	-6	-	0	bf+	57	92	3	5	3	-	Tr	Tr	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1018·6	-2	-	0	b	52	97	8	-	-	5	0	Tr	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1019·2	-2 §	-	0	bc	50	97	6	5	4	-	Tr	2-3	2500
15	Dalwhirnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1018·5	-2	NE	2	c	54	92	6	5	2	-	7-8	10	1500
16	Lerwick	156	1017·9	0	W	2	c	51	97	6	5	2	-	7-8	10	450
17	Blacksod Point	18	1015·0	-10	SW	3	bc	61	92	7	-	5	-	0	2-3	-
18	Malin Head	84	1017·1	-12	S	1	c	57	92	7	8	-	-	7-8	7-8	2500
	Aldergrove	268	1017·3	-6	S'E	2	b	63	75	7	-	-	-	0	0	-
19	Birr Castle	173	1016·5	-8	S	2	b	61	85	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1016·7	-8	SSW	4	Zo	61	92	6	5	-	-	4-6	4-6	1500
	Roches Point	22	1017·9	-8	SE'S	2	c	63	97	7	5	-	-	7-8	7-8	800

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1018·8	-2	-	0	Zo	65	85	6	1	5	1	Tr	2-3	4000	0	*
Croydon	1019·2	-2	-	0	b	64	85	6	-	4	-	0	Tr	-	0	*
S. Farnborough	1018·9	-2	-	0	Zo	61	85	6	2	8	-	2-3	4-6	4000	0	*
Boscombe Down	1019·0	-2	-	0	Zo	63	65	7	2	3	-	1	2-3	4000	0	*
Calshot (Sthmtn.)	1018·8	-2	NW'N	2	Zo	63	85	5	-	-	-	0	0	-	0	0
Lympne	1018·9	-6	NNW	1	b	66	65	7	-	-	8	0	1	-	0	§ 1
Manston	1018·3	-6	SWW	1	Zo	66	65	6	-	-	1	0	Tr	-	0	*
Shoeburyness	1018·4	-2	WNW	1	b	67	75	5	-	-	-	0	0	-	0	*
Felixstowe	1018·1	-6	NW	2	Zo	65	85	6	-	8	-	0	Tr	-	0	1
Gorleston	1018·2	+4	N'E	2	bc	65	75	6	5	-	-	4-6	4-6	2500	0	1
Mildenhall	1018·5	-2	-	0	Zo	64	85	6	-	-	-	0	0	-	1	*
Cranwell	1019·7	-2	NNW	1	Zo	71	45	6	-	-	1	0	Tr	-	0	*
Birmingham	1019·1	-6	-	0	b	72	55	8	-	-	-	0	0	-	0	*
Upper Heyford	1019·2	-2	NW'W	2	Zo	68	65	8	-	8	1	0	2-3	-	0	*
Ross-on-Wye	1019·6	-6	WSW	2	b	61	75	8	-	8	-	0	1	-	0	*
Hartland Point	1018·4	-2	S	1	b	69	55	8	-	-	-	0	0	-	0	1
Bristol	1019·3	-12	-	0	Zo	65	75	6	-	-	-	0	0	-	0	*
Portland Bill	1018·9	-2	NW	2	bc	64	75	7	4	-	-	4-6	4-6	4000	0	2
Plymouth	1019·4	-4	-	0	Zo	61	65	6	-	-	-	0	0	-	0	1
The Lizard	1019·0	-2	E'N	2	bc	63	92	8	7	-	-	2-3	2-3	4000	0	2
Scilly (St. Mary's)	1018·2	-6	SE'E	3	bc	61	92	7	-	-	4	0	2-3	-	0	2
Guernsey	1019·0	0	-	0	b	67	65	7	-	-	-	0	0	-	0	1
Pembroke	1018·6	-2	SE	2	bc	62	85	7	5	4	-	2-3	2-3	2500	0	1
Holyhead	1017·6	-4	S'W	3	b	65	65	9	-	-	1	0	Tr	-	0	2
Chester (Sealand)	1018·6	-6	ESE	1	Zo	60	85	6	-	-	-	0	0	-	0	*
Manchester	1019·1	-2	SE	1	Zo	64	75	5	-	-	-	0	0	-	0	*
Spurn Head	1018·3	-2	-	0	b	63	75	6	5	-	-	1	1	1500	0	1
Catterick	1017·9	-6	ESE	1	b	63	65	8	-	-	-	0	0	-	0	*
Tynemouth	1018·3	-2	W	2	bc	65	65	6	5	-	-	2-3	2-3	1500	0	1
St. Abbs Head	1016·8	-4	NNE	1	bc	57	85	7	-	-	1	0	2-3	-	0	1
Leuchars	1016·9	-2	E	2	f+	55	97	2	-	-	-	10	10	<150	0	*
Renfrew (Abbots I.)	1017·0	-2	-	0	Zo	60	85	5	-	3	-	0	1	-	1	*
Eskdalemuir	1018·2	-2	-	0	b	56	85	7	-	-	-	0	0	-	0	
Point of Ayre	1017·5	-2	S'W	3	b	60	85	8	-	4	5	0	1	-	0	1
Tiree	1014·2	-4	SE	3	b	61	85	7	1	-	5	Tr	1	4000	0	2
Stornoway	1016·5	-10	NNE	2	c	56	92	7	5	-	7	7-8	10	1500	0	1
Dalwhirnie	*	-4	-	0	bc	62	75	8	-	-	4	0	2-3	-	0	*
Aberdeen	1017·2	-4	NE'E	1	F+	50	97	1	5	-	-	10	10	<150	0	1
Wick	1017·2	-4	S	1	m	52	97	4	5	-	-	10	10	220	0	1
Lerwick	1016·9	-4	S'W	1	c	50	97	6	5	2	-	7-8	10	450	1	*
Blacksod Point	1013·9	-8	S	4	c	61	85	7	9	-	-	10	10	1500	0	2
Malin Head	1014·1	-6	S	2	bc	57	65	8	-	-	4	0	4-6	-	0	1
Aldergrove	1015·8	-6	SSE	2	b	66	65	7	-	-	3	0	1	-	0	*
Birr Castle	1016·5	+2	S	1	c	60	92	8	5	7	-	4-6	7-8	2500	0	*
Valentia Obsy.	1015·4	-6	SSE	4	c	61	85	7	5	-	-	9+	9+	1500	0	2
Roches Point	1016·8	0	S	2	c	63	85	7	5	-	-	9+	9+	2500	0	1

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 8th Hrs. (36)
London (Kew)	85	59	49	-	-	13·1
Croydon	85	58	50	-	-	13·5
S. Farnborough	87	52	48	-	-	14·2
Boscombe Down	86	57	49	-	-	12·6
Calshot (Sthmtn.)	77	55	50	-	-	14·2
Lympne	70	55	45	-	-	12·8
Manston	70	57	48	-	-	10·9
Shoeburyness	70	59	51	-	-	9·4
Felixstowe	64	58	53	-	-	10·2
Gorleston	63	60	59	-	-	7·0
Mildenhall	85	54	47	-	2	13·1
Cranwell	86	52	42	-	-	13·6
Birmingham	83	61	48	*	-	12·6
Upper Heyford	84	59	53	0·1	-	*
Ross-on-Wye	84	53	47	-	-	13·9
Hartland Point	77	62	57	-	-	15·3
Bristol	83	54	45	-	-	14·7
Portland Bill	66	68	*	-	-	*
Plymouth	77	51	44	-	-	14·8
The Lizard	66	57	*	-	-	15·2
Scilly (St. Mary's)	70	56	*	-	-	13·7
Guernsey	73	54	48	-	-	15·2
Pembroke	71	55	*	-	-	14·4
Holyhead	70	58	53	-	-	15·1
Chester (Sealand)	81	53	45	-	-	14·5
Manchester	83	49	42	-	-	14·4
Spurn Head	69	58	*	-	-	11·0
Catterick	85	48	41	-	-	14·7
Tynemouth	81	57	52	-	-	*
St. Abbs Head	76	51	*	-	-	*
Leuchars	84	53	43	-	-	10·8
Renfrew (Abbots I.)	81	52	44	-	-	11·2
Eskdalemuir	77	44	37	-	-	13·6
Point of Ayre	*	51	*	-	-	14·7
Tiree	61	48	*	-	-	4·3
Stornoway	70	49	*	-	-	8·0
Dalwhirnie	76	47	40	-	-	14·1
Aberdeen	64	49	43	-	-	10·7
Wick	63	51	*	-	-	*
Lerwick	55	50	*	Tr	Tr	0·1
Blacksod Point	60	59	*	-	-	*
Malin Head	68	52	*	-	3	8·4
Aldergrove	81	56	51	-	-	14·1
Birr Castle	84	57	55	-	-	15·2
Valentia Obsy.	78	59	55	-	Tr	14·2
Roches Point	69	62	*	-	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 hrs. ended 9h.											
Kew	18	bmobzby	bcy	bctbcmo	85	59	49	-	-	13·1	•	•	6
Croydon	217	bmozy	bycy	bbmoy	85	58	50	-	-	13·5	•	•	5
Greenwich (Royal Observatory)	149	b	by	by	82	57	47	-	-	11·8	43	47	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park)	27	•	•	•	83	60	55	-	-		45	45	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•									•
Camden Square	110	o	bc	•	86	61	53	-	-	•	•	29	•
Kensington	80	bc	bc	•	86	59	52	-	-		53	44	•
Hampstead Observatory	450	bm	bctc	bc	86	62	54	-	-		•	59	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·2	7-9h. 8th.	<0·1	12-24h. 8th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 8th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 9th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome	1014·2	W	4	bc	70						•	•	-	

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 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.

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 10th June 1940.

No. 28690.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1016.9	-12	NE'E	1	bc	82	35	7	8	-	-	4-6	4-6	4000
	Croydon	1016.9	-10	-	0	bc	84	35	7	2	-	-	4-6	4-6	4000
	S. Farnborough	1016.9	-12	ESE	2	pro	80	46	7	3	8	-	2-3	4-6	5700
	Boscombe Down	1016.8	-12	S'E	2	zo	84	35	7	3	-	-	7-8	7-8	4000
	Calshot (Soton.)	1017.2	-12	S'W	2	zo	72	75	6	1	-	-	Tr	Tr	4000
	Lympne	1018.0	-6	SW'S	2	bc	74	55	8	-	8	-	0	4-6	-
	Manston	1017.2	-6	ENE	1	zo	80	36	6	5	3	9	1	4-6	7200
2	Shoeburyness	1017.4	+18	S'W	2	zo	76	65	6	2	-	-	1	1	7200
	Felixstowe	1017.6	-2	E	3	b	65	66	7	1	-	-	Tr	Tr	4000
	Gorleston	1018.4	-2	SE	2	b	62	75	6	-	-	-	0	0	-
	Mildenhall	1017.1	-10	NE'N	1	b	82	35	8	1	-	-	Tr	Tr	4000
	Cranwell	1017.9	-12	W	3	b	87	35	7	1	-	-	1	1	4000
3	Birmingham	1017.2	-8	SW	2	bc	80	35	8	7	-	-	2-3	2-3	4000
	Upper Heyford	1017.3	-10	-	0	bc	82	46	7	2	3	-	4-6	4-6	4000
4	Ross-on-Wye	1016.7	-14	SE	3	b	82	35	7	1	-	-	1	1	4000
5	Hartland Point	10	-8	-	0	bcjp		45	8	2	-	5	1	2-3	2500
	Bristol	1017.3	-10	-	0	bc	83	35	7	2	-	-	2-3	2-3	4000
	Portland Bill	1017.5	-8	NW	2	bc	69	75	8	2	-	-	4-6	4-6	4000
	Plymouth	1017.9	-8	SSE	2	b	71	55	8	2	4	4	1	2-3	4000
	The Lizard	1017.7	-8	ESE	2	bc	72	75	8	7	4	-	4-6	4-6	4000
	Scilly (St. Mary's)	1017.7	-2	SW'W	3	c	65	85	5	5	-	-	10	10	1500
	Guernsey	1017.4	-8	ENE	1	b	74	55	7	-	-	-	0	0	-
6	Pembroke	1016.9	-12	S	3	c	68	55	7	-	7	2	0	7-8	-
7	Holyhead	1016.6	-6	SSW	4	bc	71	45	9	-	-	4	0	7-8	-
	Chester (Sealand)	1016.3	-16	SSE	1	b	84	35	9	1	-	6	Tr	2-3	4000
8	Manchester	1016.6	-14	SW	3	b	84	25	7	7	-	-	1	1	4000
10	Spurn Head	1016.5	-8	SE	3	b	70	85	5	-	-	-	0	0	-
	Catterick	1016.0	-6	W'N	3	b	83	25	8	2	-	-	Tr	Tr	4000
	Tynemouth	1016.7	-10	SE	3	bc	71	55	6	2	-	-	2-3	2-3	2500
11	St. Abbs Head	1015.3	-10	ESE	1	b	67	65	8	1	-	-	Tr	Tr	2500
	Leuchars	1014.8	-18	E	2	bjf	64	76	4	2	-	-	1	1	2500
12	Renfrew (Abbots I.)	1014.8	-10	SW	3	bc	81	55	8	2	3	6	Tr	4-6	4000
	Eskdalemuir	1015.4	-10	SSW	4	bc	74	45	8	-	-	4	0	2-3	-
	Point of Ayre	1016.1	-8	SSW	4	bc	73	55	8	-	-	6	0	4-6	-
13A	Tiree	1013.9	0	SW'S	2	bc	68	75	7	1	3	6	1	7-8	4000
13B	Stornoway	1015.2	-12	SE	1	bc	64	75	7	5	-	-	1	2-3	4000
15	Dalwhinnie	1013.9	-8	SW	5	bco	78	35	8	4	6	2	2-3	4-6	4000
	Aberdeen	1015.4	-14	SE'E	2	ojf	54	92	6	5	-	-	10	10	<150
	Wick	1015.7	-6	SE	2	c	53	92	6	5	2	-	7-8	10	800
16	Lerwick	1016.8	-2	ESE	4	dd	51	97	6	5	2	-	7-8	10	450
17	Blacksod Point	1013.7	-2	S	3	c	62	92	8	3	-	-	9	9	1500
18	Malin Head	1014.3	+2	W	1	c	64	85	8	6	7	-	2-3	4-6	5700
	Aldergrove	1013.8	-12	S	3	c	77	35	7	2	-	3	Tr	9	4000
19	Birr Castle	1014.6	-6	S	2	c	76	45	7	1	3	4	2-3	7-8	2500
20	Valentia Obsy. †	1015.1	-2	SW	4	bc	63	85	8	2	3	-	4-6	4-6	1500
	Roches Point	1015.7	-4	SSW	3	c	66	85	8	5	3	-	4-6	7-8	2500

OBSERVATIONS at 18h. G.M.T. 9th June — PAST 24 HOURS

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	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. 9th (37)	Weather 13h.–18h. 9th (38)	Weather 18h. 9th to 1h. 10th (39)	Weather 1h.–7h. 10th (40)
1	London (Kew)	1016.5	+6	ENE	3	Hro	67	65	6	8	-	-	9+	9+	1500	1	*	bczobcy	bcHroRRro		bcmocfefe
	Croydon	1016.9	+10	E'N	1	t	70	65	6	3	4	1	7-8	9+	4000	0	*	bmozobcy	bcyctHrozo	bcbzomo	bmowcm
	S. Farnborough	1016.1	-2	E	2	bc	75	65	7	8	8	3	4-6	7-8	4000	1	*	bbcyT	cFlPRbc	bcbmow	ofwc
	Boscombe Down	1015.6	-2	ENE	2	bc	72	55	8	8	-	3	4-6	4-6	2500	1	*	bbcmoy	bcmoytHr	bcb	bccmo
	Calshot (Soton.)	1015.9	-8	SW'W	2	b	74	65	7	2	-	-	1	1	4000	0	1	bmo	bmoby	bbmow	bmozbmo
	Lympne	1016.8	-6	SSW	1	bc	72	55	9	-	7	-	0	2-3	-	0	§	bbybcy	bcby	bcb	bwbcc
	Manston	1016.2	-6	ESE	1	zo	75	55	6	5	3	9	4-6	7-8	5700	0	*	bzobczoy	bczoy	czoybczo	bmobcmo
2	Shoeburyness	1016.5	-4	E'S	2	bc	71	65	6	-	7	2	0	7-8	-	0	*	ymo	bczo	bczobzo	cwfe
	Felixstowe	1016.5	-8	-	0	zo	69	65	6	-	-	3	0	Tr	-	0	0	bmozo	bzo	bzobczo	bcmow
	Gorleston	1016.6	-8	S'E	1	b	61	78	6	-	-	-	0	0	-	0	1	bcbzo	b	bzo	bbczo
	Mildenhall	1015.0	-14	-	0	bc	83	25	7	1	6	3	2-3	2-3	4000	0	*	bmowby	bybcy	bczobc	cbcmo
	Cranwell	1016.0	-10	WSW	2	bc	81	35	7	2	7	2	Tr	7-8	4000	0	*	bzoyby	bbcy		czob
3	Birmingham	1015.0	-14	SSE	2	bc	80	35	8	2	6	-	2-3	4-6	4000	0	*	b	bc	ctlrc	cb
	Upper Heyford	1015.7	-2	S'W	3	c	75	45	7	9	3	-	7-8	9	2500	0	*	cbczobcy	bcy	bctlcbc	bbcmow
4	Ross-on-Wye	1015.0	-8	ESE	3	c	76	45	8	2	-	-	7-8	7-8	4000	0	*	bby	bcy	cybc	bmowcm
5	Hartland Point	1015.3	-8	W	1	bc	73	55	8	1	-	6	1	2-3	2500	0	1	by	bcy	bcc	c
	Bristol	1015.5	-2	SE	3	bc	78	45	8	8	-	-	4-6	4-6	2500	0	*	bmzoy	bcbbcy	*	bccgw
	Portland Bill	1016.1	-10	W	2	bc	62	85	8	2	-	-	2-3	2-3	4000	0	2	bcbc	bcbc	bcc	o
	Plymouth	1015.9	-10	SSW	2	bc	71	65	8	2	-	3	1	4-6	4000	0	1	by	bybcy	b	bmfldofm
	The Lizard	1016.1	-4	-	0	bc	66	85	7	7	-	-	2-3	2-3	4000	0	1	bc	bc	cmo	c
	Scilly (St. Mary's)	1016.4	-6	W'S	2	c	64	85	6	5	7	-	7-8	9+	2500	0	1	bbcc	cbcc	c	c
	Guernsey	1015.9	-6	-	0	b	70	65	7	-	-	-	0	0	-	0	1	b	b	bicbc	bccof
6	Pembroke	1015.6	-12	SW	1	bc	65	65	7	-	4	9	0	2-3	-	0	1	bcczo	cbczo	lfcmo	cbcmo
7	Holyhead	1015.4	-2	SSW	3	bc	64	65	8	-	4	1	0	Tr	-	0	2	bybc	bcyb	bmowb	bwmomc
	Chester (Sealand)	1015.0	-10	WNW	3	bc	77	45	8	8	-	6	4-6	4-6	4000	0	*	bmozoy	bbcy	bczow	bczowmo
8	Manchester	1014.9	-8	NW'W	3	bc	80	25	8	1	6	-	1	1	4000	0	*	bzoby	by	bbcycprol	bmozo
10	Spurn Head	1014.8	-8	SE'E	3	bc	63	75	5	4	-	-	1	1	1500	0	2	b	bc	*	c
	Catterick	1014.7	-6	WNW	2	b	79	25	8	-	6	9	0	7-8	-	0	*	bwby	by	bccbc	bcb
	Tynemouth	1015.3	-2	S	2	bc	70	55	7	5	3	2	2-3	4-6	2500	0	1	bcb	bc	bc	bc
11	St. Abbs Head	1013.2	-4	SW	4	bc	77	35	8	7	4	2	2-3	4-6	2500	0	2	bf	bcy	bcy	bcy
	Leuchars	1013.2	-6	NE	1	bc	63	85	7	-	7	6	0	4-6	-	0	*	ofbmojf	bc	bcbmo, bf	bffbjfm bcmo
12	Renfrew (Abbots I.)	1013.2	-10	SW	3	b	76	45	8	-	4	2	0	1	-	0	*	bmowby	bcby	bybcmow	cmow
	Eskdalemuir	1014.4	-4	SW	4	bc	72	46	8	-	3	8	0	4-6	-	0	*	bby	bybcy	bcyb	bwbc
	Point of Ayre	1014.3	-10	WSW	4	b	78	35	8	-	4	-	0	1	-	0	1	bbc	bcb	bc	bcb
13A	Tiree	1012.5	-4	-	0	c	65	75	7	5	-	-	9	9	4000	0	1	bc	c	cRc	c
13B	Stornoway	1013.2	-10	SW	3	c	65	85	6	5	5	7	4-6	10	4000	0	2	cbc	bcc	cprol	cpr
15	Dalwhinnie	1013.2	-8	SW	4	bc	71	35	8	4	6	1	2-3	4-6	4000	0	*	bc	bc		bcc
	Aberdeen	1013.7	-10	ENE	1	of	57	97	2	5	-	-	10	10	<150	1	1	ofozo	cHRbcof	ofdo	ofdoo
	Wick	1014.4	-6	SE	3	f	52	97	3	-	-	-	10	10	<150	0	1	omcmo	moFf	fFf	dofF
16	Lerwick	1016.2	-2	E'S	4	c	51	85	8	5	2	-	7-8	10	800	0	*	ciddd	cdd	c	cbcc
17	Blacksod Point	1012.9	-2	S	2	bc	63	75	8	3	4	-	2-3	4-6	1500	0	1	c	bc	ro	bc
18	Malin Head	1013.5	-6	W	1	pro	60	85	6	9	-	-	9	9	2500	0	0	c	cbczoz	c	c
	Aldergrove	1013.5	-2	SW'W	2	t	68	75	7	3	-	-	9+	9+	2500	0	*	bbccy	cyctl	ctlrobc	c
19	Birr Castle	1013.7	-6	W	1	pro	69	75	8	8	1	-	4-6	10	1500	0	*	cy	cpro	cpro	cproc
20	Valentia Obsy. †	1014.5	-4	SW	4	c	65	75	8	2	5	9	4-6	7-8	1500	1	2	DriRcbc	bcc	cprobccw	cbccwbcb
	Roches Point	1014.5	-10	SW	2	c	64	92	8	5	-	-	9	9	1500	0	2	c	c	1rc	1rocbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

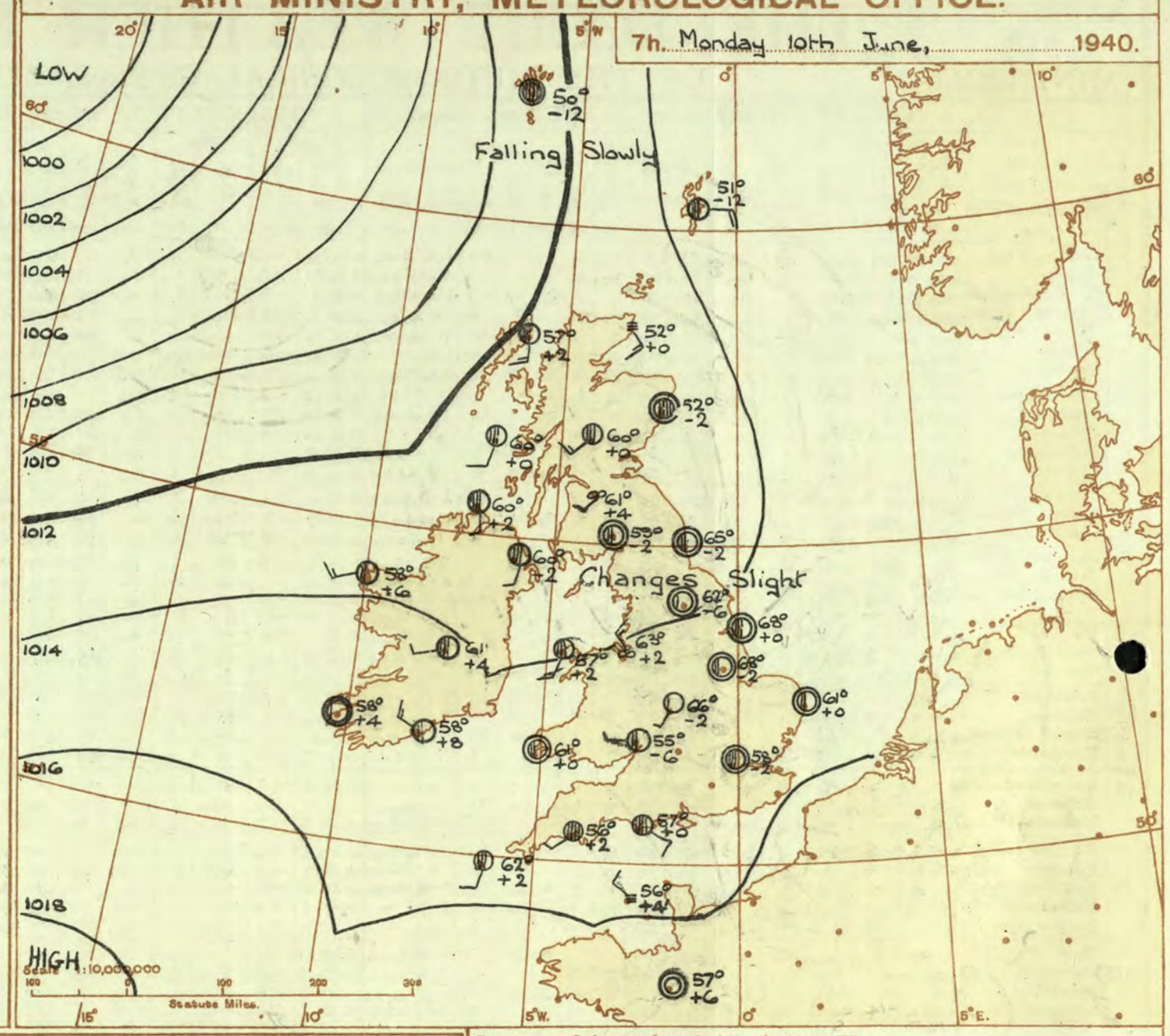
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 10th June, 1940.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 10th June, 1940
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind variable, light, becoming west-southwest tomorrow; some bright periods; thunderstorms and thundery rain developing; some early morning fog; warm and close today, less warm tomorrow.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind becoming west to southwest light to moderate; local thunderstorms at first; bright periods, occasional showers; much cooler than of late.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1 – 3.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland.	Wind southwest light to moderate; bright periods; some showers; perhaps local thunder at first; much cooler than of late.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Wind southeast to south, light to moderate; cloudy or dull; occasional rain or drizzle; coastal fog at times; some improvement tomorrow; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind westerly, light to moderate; variable sky; bright periods; some showers; average temperature.

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

GENERAL INFERENCE.

A depression just off southwest Iceland is deepening and moving slowly north-northeast. An associated trough of low pressure over Ireland and western districts of Great Britain will move slowly east across the country causing thunderstorms and thundery rain in many districts followed by somewhat cooler weather. In western districts weather will be much cooler than of late with bright periods and some showers.

FURTHER OUTLOOK.

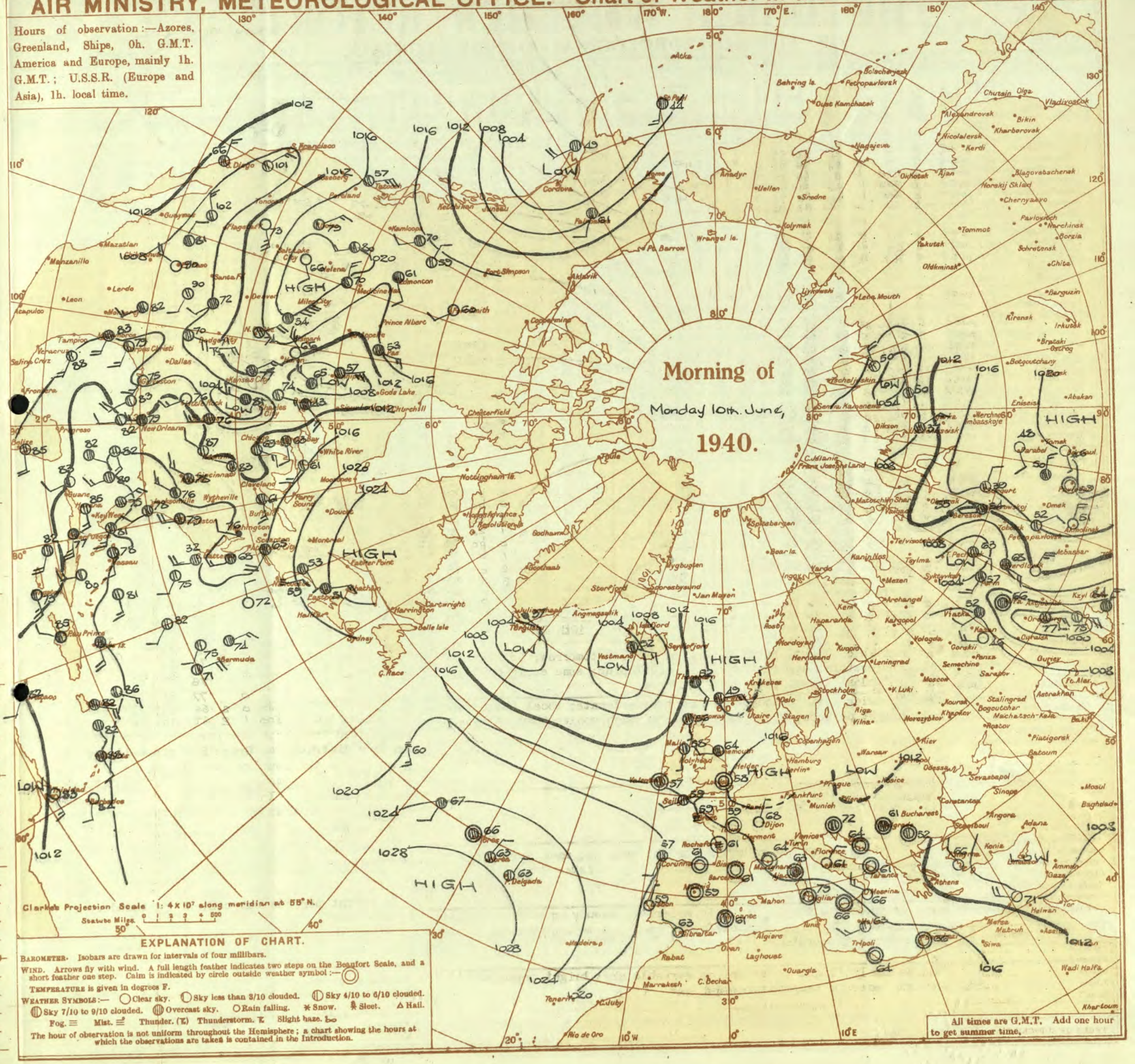
Bright periods but continuing thundery especially in the East.

Forecasts issued at 1030

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

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

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 10th June 1940.

No. 28690.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1015·8	-6	–	0	zo	58	85	6	–	–	–	0	0	–
	S. Farnborough	226	1015·6	-8	–	0	zo	56	92	6	–	–	–	0	0	–
	Boscombe Down	417	1015·4	-8	ESE	1	b	60	75	7	–	–	–	0	0	–
	Calshot (Sthmtn.)	8	1015·6	-6	SSW	1	zo	61	92	6	–	–	–	0	0	–
	Lympne	346	1016·4	-2	ENE	1	b	62	75	7	–	–	–	0	0	–
	Manston	154	1016·1	-2	–	0	zo	57	92	6	5	–	1	1	1	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1015·9	-4	–	0	zo	61	85	6	–	7	3	0	4-6	–
	Gorleston	5	1016·1	-2	W	1	b	61	92	6	5	–	–	1	1	2500
	Mildenhall	19	1015·4	-6	SE'S	2	c	61	85	7	5	–	–	7-8	7-8	4000
	Cranwell	240														
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1015·9	-6	–	0	zo	60	85	6	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1014·9	-6	WSW	3	c	61	92	7	5	–	–	9	9	2500
	Bristol	209	1015·5	-2	S	2	bc	59	75	7	–	3	1	0	4-6	–
	Portland Bill	32	1015·6	-4	WNW	2	c	60	85	7	5	–	–	7-8	7-8	4000
	Plymouth	82	1015·6	-6	E'N	1	b	57	85	7	–	–	–	0	0	–
	The Lizard	240	1016·0	-8	W	1	c	58	92	5	5	2	–	7-8	10	1500
	Scilly (St. Mary's)	163	1015·6	-10	SW'W	1	c	59	97	7	5	7	–	4-6	7-8	2500
	Guernsey	175	1015·8	-2	–	0	bc	60	75	7	5	2	–	4-6	4-6	2500
6	Pembroke	142	1015·3	-4	W	2	c	60	92	6	5	2	–	4-6	9+	800
7	Holyhead	26	1014·3	-2	SSW	4	b	56	92	6	5	–	–	Tr	Tr	4000
	Chester (Sealand)	16	1014·2	-2	SSE	2	zo	60	75	6	5	7	–	2-3	4-6	4000
8	Manchester	70	1015·0	-2	S'E	1	zo	63	75	6	5	4	–	2-3	4-6	4000
10	Spurn Head	29														
	Catterick	175	1014·8	-2	–	0	bc	55	75	7	5	–	1	2-3	2-3	5700
	Tynemouth	108	1015·2	-2	W	2	bc	64	65	6	1	–	–	4-6	4-6	2500
11	St. Abbs Head	280	1012·4	-8	SW	4	bc	62	55	8	4	4	1	1	2-3	2500
	Leuchars	36	1012·7	-6	NE	2	bf+	48	97	3	–	4	–	0	1	–
12	Renfrew (Abbots I.)	19	1013·2	-2	W	1	zo	57	92	6	5	3	–	2-3	7-8	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1013·8	0	–	0	bc	55	97	8	–	4	–	0	4-6	–
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1013·1	-6	SSE	1	c	56	97	6	5	7	–	7-8	9+	2500
15	Dalwhirnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1013·2	-6	SSE	3	f-	52	97	2	–	–	–	10	10	<150
16	Lerwick	156	1015·8	-10	E	3	c	49	75	8	5	7	–	7-8	9	1500
17	Blacksod Point	18	1013·1	0	S	2	iro	59	85	7	6	–	–	9	9	1500
18	Malin Head	84	1013·6	0	S	1	c	58	92	8	8	–	–	7-8	7-8	5700
	Aldergrove	268	1013·3	+2	–	0	c	58	57	7	5	–	–	9	9	7200
19	Birr Castle	173	1014·2	0	W	1	c/pr	61	92	7	9	1	–	7-8	10	1500
20	Valentia Obsy.	30	1015·0	+2	–	9	c	57	92	8	2	–	2	4-6	7-8	1500
	Roches Point	22	1014·7	-2	W'N	1	c.	59	92	8	6	–	–	7-8	7-8	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1014·9	-4	–	0	cf-	58	97	2	5	3	9	4-6	10	1500	1	*
Croydon	1014·8	-2	–	0	c	58	85	6	5	7	–	9	9+	4000	0	*
S. Farnborough	1014·8	-2	–	0	zo	54	92	6	5	7	–	7-8	10	1500	1	*
Boscombe Down	1014·8	-2	ESE	1	zo	57	85	6	5	7	–	7-8	9	4000	0	*
Calshot (Sthmtn.)	1015·0	0	NNW	1	zo	61	85	5	4	–	–	2-3	2-3	4000	0	0
Lympne	1016·0	+2	ESE	2	c	62	75	8	–	7	7	0	10	–	0	§1
Manston	1015·0	-4	SE	1	zo	63	75	6	–	–	–	0	0	–	0	*
Shoeburyness	1015·3	0	–	0	cf-	58	97	3	5	–	–	7-8	7-8	4000	0	*
Felixstowe	1015·2	-6	S	2	zo	62	92	5	–	3	–	0	1	–	0	1
Gorleston	1015·4	0	–	0	bc	61	75	6	–	5	–	0	4-6	–	0	1
Mildenhall	1014·6	-2	S	1	zo	64	75	6	–	7	–	0	2-3	–	0	*
Cranwell	1015·7	-2	–	0	b	68	65	7	–	4	1	0	1	–	0	*
Birmingham	1014·4	-2	SSW	1	b	66	65	7	1	–	–	1	1	2500	1	*
Upper Heyford	1015·1	-8	–	0	zo	58	92	5	–	7	–	0	7-8	–	0	*
Ross-on-Wye	1014·7	-6	W	1	u	55	92	5	3	–	3	4-6	9+	2500	0	*
Hartland Point	1014·6	+2	WSW	2	c	59	92	6	8	1	–	4-6	9	1500	*	1
Bristol	1015·2	+2	–	0	zo	58	92	6	5	–	–	9+	9+	1500	0	*
Portland Bill	1014·6	0	ESE	2	c	57	92	7	5	2	–	7-8	10	2500	0	2
Plymouth	1015·1	+2	SW	1	m/f	56	97	4	5	–	–	10	10	220	1	1
The Lizard	1016·0	+2	–	0	c	60	92	5	8	2	–	7-8	9+	1500	0	2
Scilly (St. Mary's)	1015·2	+2	S'W	2	cjp	62	85	8	5	7	–	7-8	10	2500	0	1
Guernsey	1015·0	+4	NW'W	2	of	56	97	3	5	–	–	10	10	<150	0	1
Pembroke	1014·2	0	–	0	bc	61	85	6	1	7	–	Tr	4-6	2500	0	1
Holyhead	1013·8	+2	SSW	3	cm	57	97	4	5	–	–	10	10	450	0	2
Chester (Sealand)	1014·3	+2	NW	3	zo	63	75	6	7	3	1	2-3	4-6	2500	0	*
Manchester	1014·1	-4	S	2	zo	67	65	5	–	4	–	0	1	–	0	
Spurn Head	1015·8	0	–	0	c	68	75	5	5	7	–	4-6	7-8	800	0	1
Catterick	1013·5	-6	–	0	b	62	65	7	–	8	–	0	Tr	–	0	*
Tynemouth	1014·4	-2	–	0	b	65	55	5	–	3	–	0	1	–	0	0
St. Abbs Head	1012·2	+6	ESE	3	bc	66	52	8	7	4	2	2-3	4-6	2500	0	2
Leuchars	1012·4	-2	E	2	zo	60	85	6	–	3	–	0	4-6	–	0	*
Renfrew (Abbots I.)	1013·2	+4	SW'S	1	zo	61	85	6	5	–	–	10	10	1500	0	*
Eskdalemuir	1013·6	-2	–	0	bc	59	75	7	–	8	2	0	2-3	–	0	
Point of Ayre	1013·5	+2	N'W	1	b	59	92	6	–	3	–	0	1	–	0	0
Tiree	1012·0	0	S'W	2	c	60	92	8	8	3	–	4-6	7-8	2500	0	2
Stornoway	1012·0	+2	S	3	c	57	92	7	5	7	–	7-8	9+	2500	1	2
Dalwhirnie	1012·6	0	SW	3	c	60	85	8	4	5	1	2-3	7-8	4000	0	*
Aberdeen	1012·2	-2	–	0	o	52	97	5	5	–	–	10	10	<150	1	1
Wick	1012·0	0	SSE	3	F+	52	97	1	–	–	–	10	10	<150	1	1
Lerwick	1014·1	-6	E	4	c	51	85	8	5	7	–	4-6	7-8	1500	0	*
Blacksod Point	1013·4	+6	WSW	3	bc	58	85	8	3	–	9	2-3	4-6	2500	0	2
Malin Head	1013·3	+2	S	2	bc	60	85	8	2	–	2	2-3	4-6	5700	0	0
Aldergrove	1013·2	-2	S'W	2	c	60	92	6	5	3	1	4-6	9	4000	0	*
Birr Castle	1014·3	+4	WSW	1	c	61	92	8	5	–	8	4-6	9	2500	0	*
Valentia Obsy.	1015·1	+4	–	0	b	58	92	8	2	–	1	1	1	1500	0	2
Roches Point	1014·8	+8	WNW	3	bc	58	92	8	5	4	5	2-3	4-6	2500	1	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 9th Hrs. (36)
London (Kew)	83	55	48	16	0·1	8·3
Croydon	85	55	47	Tr	–	8·7
S. Farnborough	85	51	47	4	–	7·9
Boscombe Down	85	53	45	0.5	–	9·3
Calshot (Sthmtn.)	79	58	53	–	–	14·4
Lympne	77	58	46	–	–	13·3
Manston	82	54	43	–	–	10·1
Shoeburyness	79	(51)	46	–	–	10·6
Felixstowe	72	52	47	–	–	12·3
Gorleston	85	59	57	–	–	14·1
Mildenhall	84	58	51	–	–	13·4
Cranwell	91	61	55	–	–	13·1
Birmingham	83	60	47	–	1	13·6
Upper Heyford	83	56	46	–	–	*
Ross-on-Wye	84	53	47	–	–	12·8
Hartland Point	77	58	57	–	–	14·9
Bristol	84	54	45	–	–	12·8
Portland Bill	71	56	*	–	–	
Plymouth	74	55	48	–	Tr	13·8
The Lizard	72	56	*	–	–	14·[illegible]
Scilly (St. Mary's)	70	57	*	–	–	11·9
Guernsey	75	55	50	–	–	14·8
Pembroke	70	57	*	–	–	14·6
Holyhead	73	53	53	–	–	15·1
Chester (Sealand)	87	(57)	46	–	–	13·5
Manchester	85	51	45	–	Tr	14·2
Spurn Head	80	59	*	–	–	14·2
Catterick	84	49	43	–	–	15·2
Tynemouth	77	59	56	1	–	*
St. Abbs Head	79	62	*	–		*
Leuchars	69	48	39	–	–	9·2
Renfrew (Abbots I.)	81	55	33	–	–	13·2
Eskdalemuir	76	42	35	–	–	13·8
Point of Ayre	*	53	*	–	–	15·1
Tiree	70	56	*	–	4	9·5
Stornoway	71	55	*	–	1	4·9
Dalwhirnie	79	54	45	–	–	13·5
Aberdeen	57	50	50	7	0·1	0·9
Wick	54	51	*	–	Tr	
Lerwick	53	46	*	Tr	–	*
Blacksod Point	66	54	*	0.4	0·1	*
Malin Head	71	56	*	–	–	10·9
Aldergrove	78	56	52	–	Tr	10·4
Birr Castle	77	57	56	Tr	1	3·0
Valentia Obsy.	66	53	48	9	0·1	4·2
Roches Point	67	56	*	Tr	2	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	bczo bcy	bcctlroRR	bcmofefe	83	55	48	16	0·1	8·3	*	*	3
Croydon	217	bmozobcy	bcyctlrozo	bcbzomowa	85	55	47	Tr	–	8·7	*	*	6
Greenwich (Royal Observatory)	149	by	cRtl	Rtlbcm	84	55	45	10	5	7·0	51	92	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	84	59	55	3		6·8	41	92	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	85	57	52	3	7		41	50	*
Camden Square	110	b	bc	*	85	57	52	15	–	*	*	95	*
Kensington	80	bcpt	ctlr	*	86	58	51	3	7		91	99	*
Hampstead Observatory	450	bcortl	bc	bcm	82	58	52	9	–		*	91	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington: Max.	Time.	Min.	Time.

Kew Observatory: Max.	Time.	Min.	Time.
0·2	6h 10h	<0·1	15-19h 9h

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 9th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 10th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome						1015·5	NNE	1	b	70	*	*		–

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

§ Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.

The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.

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

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

COLUMNS 34, 35.

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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SECRET

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 11th June 1940.

No. 28,691

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1014.0	-8	·	0	cf-	68	92	3	3	1	-	9+	10	4000
	Croydon ...	1014.0	-8	·	0	o	63	85	6	5	-	-	10	10	5700
	S. Farnborough	1013.6	-14	E'S	1	z	67	65	6	7	3	·	2-3	7-8	4000
	Boscombe Down	1014.2	+2	·	0	z_o	62	85	5	-	1	-	0	10	-
	Calshot (Soton.)	1013.9	-2	SSW	3	z_o	67	75	6	·	3	·	0	9+	-
	Lympne ...	1014.7	-6	SE'E	2	bc	74	55	8	-	8	·	0	2-3	-
	Manston ...	1014.1	-6	SE	2	z	72	65	6	1	3	·	2-3	2-3	7200
2	Shoeburyness ...	1014.1	-6	SE	1	pr	67	75	6	9	8	-	7-8	10	4000
	Felixstowe ...	1014.5	-6	E'S	2	z	69	75	6	·	3	·	0	4-6	·
	Gorleston ...	1014.5	-2	S	3	bc	70	55	6	8	7	·	2-3	4-6	
	Mildenhall ...	1013.9	-4	SSW	2	z_o	73	55	6	5	-	-	4-6	4-6	7200
	Cranwell ...	1014.0	-10	S	2	c	75	55	7	5	-	·	9	9	4000
3	Birmingham	1013.6	-6	·	0	bc	67	65	7	-	8	-	0	4-6	-
	Upper Heyford	1014.0	-4	SW	1	c	69	75	6	·	3	7	0	10	-
4	Ross-on-Wye ...	1013.3	-8	NE	3	z_o	72	63	9	1	-	·	Tr	Tr	2500
5	Hartland Point	1014.3	-2	W	3	bc	65	85	8	2	4	-	2-3	4-6	2500
	Bristol ...	1013.5	-10	WSW	2	b	74	55	8	2	-	5	Tr	1	2500
	Portland Bill ...	1014.5	-2	WSW	2	c	59	92	6	5	-	·	7-8	7-8	2500
	Plymouth ...	1014.2	-10	SSW	2	z_o	67	75	6	5	3	·	1	4-6	2500
	The Lizard ...	1015.3	+2	SW	3	c	67	75	8	8	6	·	7-8	7-8	2500
	Scilly (St. Mary's)	1015.4	+2	NW'W	3	c	64	85	8	8	8	·	7-8	9+	1500
	Guernsey ...	1015.0	-2	WNW	1	z	66	75	6	8	·	·	7-8	7-8	1500
6	Pembroke ...	1014.3	-2	·	0	c	64	85	7	2	7	3	2-3	7-8	1500
7	Holyhead ...	1014.2	+6	SSW	3	c	62	85	6	5	·	·	9+	9+	220
	Chester (Sealand)	1013.6	-2	WNW	4	z	66	75	6	2	7	3	2-3	9	4000
8	Manchester ...	1012.8	-6	W	3	Bc	77	55	7	2	9	·	Tr	4-6	4000
10	Spurn Head ...	1012.8	0	E'S	3	c	68	75	6	2	-	-	7-8	7-8	1500
	Catterick ...	1011.6	-10	SSW	1	c	83	25	7	2	-	1	7-8	7-8	2500
	Tynemouth ...	1013.5	-2	E	2	bc	63	55	6	2	3	2	2-3	4-6	2500
11	St. Abbs Head	1012.2	+2	ESE	2	c	61	65	8	2	3	1	4-6	7-8	2500
	Leuchars ...	1011.2	-6	W	2	c	76	55	7	8	-	1	7-8	7-8	2500
12	Renfrew (Abbots I.)	1012.8	-2	W'S	3	c	72	55	8	8	3	-	4-6	7-8	1500
	Eskdalemuir ...	1011.7	-4	WSW	3	bc	72	55	7	2	3	1	2-3	4-6	4000
	Point of Ayre ...	1013.7	0	N	1	bc	63	75	7	1	3	9	Tr	4-6	2500
13A	Tiree ...	1011.9	0	SW'S	3	bc	62	85	8	8	-	·	4-6	4-6	1500
13B	Stornoway ...	1011.5	-2	SSW	3	c	62	65	8	7	7	-	4-6	9+	2500
15	Dalwhinnie ...	1011.9	0	S	2	c	64	65	8	4	7	-	4-6	10	4000
	Aberdeen ...	1011.3	-6	SE'E	1	bc	61	85	7	2	9	·	Tr	4-6	2500
	Wick ...	1012.1	+4	SSE	2	F	54	97	1	-	·	·	10	10	<150
16	Lerwick...	1012.5	-4	S	3	c	53	85	8	5	7	-	7-8	9+	1500
17	Blacksod Point...	1014.9	+8	NW	3	bc	62	75	8	-	6	-	0	4-6	-
18	Malin Head ...	1013.1	+2	W	4	c	61	75	8	2	6	-	2-3	7-8	5700
	Aldergrove ...	1013.1	-2	SSW	2	c	69	65	8	8	3	1	4-6	9	4000
19	Birr Castle ...	1014.4	0	W'N	2	c	67	65	8	8	7	·	7-8	9	1500
20	Valentia Obsy. †	1016.3	+6	W	3	bc	63	75	9	2	3	-	4-6	4-6	2500
	Roches Point ...	1014.8	0	W	2	c	65	75	9	3	3	5	4-6	7-8	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1012.9	-8	SSW	1	cf	62	85	3	5	-	-	9+	9+	2500	1	*
Croydon	1013.3	-6	-	0	m	63	85	4	-	3	-	0	4-6	-	0	*
S. Farnborough	1012.9	-2	-	0	z_o	65	85	6	-	8	-	0	2-3	-	0	*
Boscombe Down	1012.7	-12	SW'S	2	z_o	71	65	6	1	-	-	Tr	Tr	4000	0	*
Calshot (Soton.)	1013.4	-6	SW	4	z_o	62	85	6	1	1	-	2-3	2-3	4000	0	2
Lympne	1013.8	-10	ENE	1	z_o	62	85	5	-	8	-	0	1	-	0	§1
Manston	1013.0	-2	SE	1	z_o	64	75	5	5	3	-	4-6	4-6	4000	0	*
Shoeburyness	1012.6	-8	-	0	bc	66	85	3	-	8	-	0	2-3	-	0	*
Felixstowe	1013.3	-4	-	0	z_o	65	75	6	5	7	-	7-8	9	4000	0	0
Gorleston	1013.2	-4	-	0	c/pr	61	85	5	8	-	-	10	10	1500	0	1
Mildenhall	1012.7	-6	-	0	ir_o	66	75	6	5	2	-	4-6	10	4000	1	*
Cranwell	1013.7	-2	SSW	2	z_o	66	75	5	5	1	-	4-6	9+	4000	0	*
Birmingham	1012.8	-4	NW	3	bc	72	55	7	2	8	3	Tr	4-6	4000	1	*
Upper Heyford	1012.8	-4	SW	1	bc	68	75	7	4	8	-	2-3	2-3	5700	0	*
Ross-on-Wye	1012.0	-4	E'N	1	bc	74	65	8	2	-	-	4-6	4-6	4000	0	*
Hartland Point	1014.4	0	W	3	bc	64	85	8	5	6	1	2-3	4-6	1500	0	2
Bristol	1013.5	+2	WSW	4	bc	68	75	8	2	6	1	1	2-3	2500	0	*
Portland Bill	1014.3	-6	S	2	c	58	85	6	2	-	-	7-8	7-8	4000	0	2
Plymouth	1014.1	+2	WSW	3	c	66	75	8	3	-	6	2-3	7-8	4000	0	2
The Lizard	1015.6	-6	W	2	c	62	92	8	8	2	-	7-8	9+	2500	0	2
Scilly (St. Mary's)	1015.6	-2	NW'W	2	c	61	85	8	8	7	-	2-3	9+	1500	0	1
Guernsey	1014.6	-10	NW'W	3	bc	64	85	7	-	7	8	0	4-6	·	0	2
Pembroke	1014.5	0	NNW	2	bc	68	85	7	2	7	1	2-3	4-6	2500	0	1
Holyhead	1013.8	-6	WNW	2	if	60	85	8	2	3	1	Tr	2-3	2500	0	1
Chester (Sealand)	1013.7	+4	NW	4	c	65	75	7	8	6	3	4-6	7-8	4000	0	*
Manchester	1013.1	+6	W'N	3	c	68	75	8	2	9	-	2-3	7-8	4000	0	*
Spurn Head	1011.8	-2	SE'E	3	c	63	85	6	6	-	-	9+	9+	800	0	1
Catterick	1011.5	-2	S	2	z	74	45	6	2	4	1	2-3	4-6	2500	0	*
Tynemouth	1012.1	-6	W	2	c/pr	70	55	6	8	-	-	9	9	2500	1	1
St. Abbs Head	1011.3	0	NW	2	c	62	65	8	4	6	9	4-6	7-8	2500	0	1
Leuchars	1010.6	0	W	3	c	74	55	8	8	7	-	4-6	7-8	2500	0	*
Renfrew (Abbots I.)	1012.5	+2	WNW	3	c	64	65	9	5	7	-	9	9+	2500	0	*
Eskdalemuir	1011.2	-2	SW	3	bc	68	65	8	7	7	1	2-3	4-6	4000	0	*
Point of Ayre	1013.4	-2	W	3	bc	67	75	8	-	5	9	0	4-6	-	0	1
Tiree	1012.5	+2	WSW	2	c/pr	56	85	7	5	-	-	9+	9+	1500	0	2
Stornoway	1011.9	+10	WSW	4	c/pr	55	92	7	8	7	-	Tr	9+	2500	1	2
Dalwhinnie	*	+6	W	4	C	59	75	8	4	7	-	4-6	10	4000	0	*
Aberdeen	1010.8	+2	NNE	1	c	64	75	6	2	9	-	4-6	7-8	2500	0	1
Wick	1011.0	-4	S	1	F+	52	97	1	-	-	-	10	10	<150	0	1
Lerwick	1012.0	+6	SSW	3	c	52	85	8	5	7	-	7-8	9+	1500	0	*
Blacksod Point	1015.8	+2	W	3	bc	59	65	8	2	4	-	2-3	4-6	4000	0	2
Malin Head	1013.9	+8	W	4	c	59	75	8	4	-	3	4-6	7-8	5700	0	0
Aldergrove	1013.1	+2	NNW	2	c	65	75	9	2	-	-	9	9	4000	0	*
Birr Castle	1014.7	+2	WNW	3	bc	69	45	8	5	-	-	2-3	2-3	2500	0	*
Valentia Obsy. †	1017.4	+4	NW'N	4	bc	60	75	8	2	-	6	4-6	4-6	2500	0	2
Roches Point	1014.7	+2	NW'W	4	c	66	75	9	8	-	-	7-8	7-8	2500	0	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)	cbcfeg	$cfegcpr_of$	cffe	cfefe
Croydon	cm_omg	cmcmbc	$bcmbm_ow$	bm_owcm_o
S. Farnborough	bc	$cbcz_og$	$bcbm_ow$	$bwFm_oc$
Boscombe Down	cm_o	$cbcbm_o$	bmg	bfcmb
Calshot (Soton.)	$bmbz_o$	$bztcz_o$	$bczbm_of$	ofbcmg
Lympne	cbby	$bcycm_o$	bm_ow_o	$bbcm_of$
Manston	bz_oy	$bzcz_o$	bcz_ocbmw	bbcmw
Shoeburyness	$cfcm_op$	cpz_om	bcm_o	cbbm
Felixstowe	bm_obcz	$bczcz_o$	cz_obm_o	bm_omw
Gorleston	bcyz	bccprz	cz_oc	cbz_o
Mildenhall	bcm_oby	$bccir_oz$	cir_obcm_o	bcmw
Cranwell	by,cy	$cycz_o$	z_ombfm_o	$bbcm_o$
Birmingham	bbcz	bc	cpr_otbc	bcb
Upper Heyford	cm_o	czbc	$bcbm_o$	cm_ow
Ross-on-Wye	cmzbc	bzbcy	p_obc	bcc
Hartland Point	bccbc	bccbc	bcc	cbc
Bristol	c,bm_ob	bybc	bwm_o	$bccbcm_o$
Portland Bill	off	cz_o	bc	cbc
Plymouth	$ombcm_o$	bcm_obc	bcc	$cbccm_o$
The Lizard	bcc	bcc	cpr	cprbc
Scilly (St. Mary's)	c	c	c	cp_o
Guernsey	ofz_o	cz_obc	$bccpr_o$	cz_o
Pembroke	bcz_oc	$cbcz_o$	bcc	c
Holyhead	Fdm_oc	m_olfdc	bcc	c⊕
Chester (Sealand)	bczw	$czprm_oc$	bcw	cwm_obcc
Manchester	bz_obcy	bcycy	$cbcbm_ow$	$ffcmm_o$
Spurn Head	bc	c	cb	bc
Catterick	bybcy	$bccytlr_oz$	$bcycm_o$	bcm_owc
Tynemouth	bc	bccptl	cptc	c
St. Abbs Head	bcc	cbcc	r	cbc
Leuchars	cm_ocy	cycpgbc	cyc,pr_or_ob	bcbbcc
Renfrew (Abbots I.)	cmwbcy	cyc	cbcb	b,cw
Eskdalemuir	bcbcy	bcybc	bcc	cwc
Point of Ayre	iffbc	bc	c	c
Tiree	bcb	bccpr		
Stornoway	c	cbccpry	cbcc	cbcc
Dalwhinnie	c	c	..	c
Aberdeen	ocbc	bcc	$ccir_o$	cbc
Wick	Ff	Ff	fr_oc	cbc
Lerwick	c	c	codf	Fr_ocpr
Blacksod Point	cbc	bc	bc	c
Malin Head	cjpcc	cbcc	c	bc
Aldergrove	cm_opr_oc	cbcc	cpr_oc	cbcc
Birr Castle	c	cbcy	cb	bc
Valentia Obsy. †	bcv	cvbc	bcccc	cbc
Roches Point	c	c	bc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

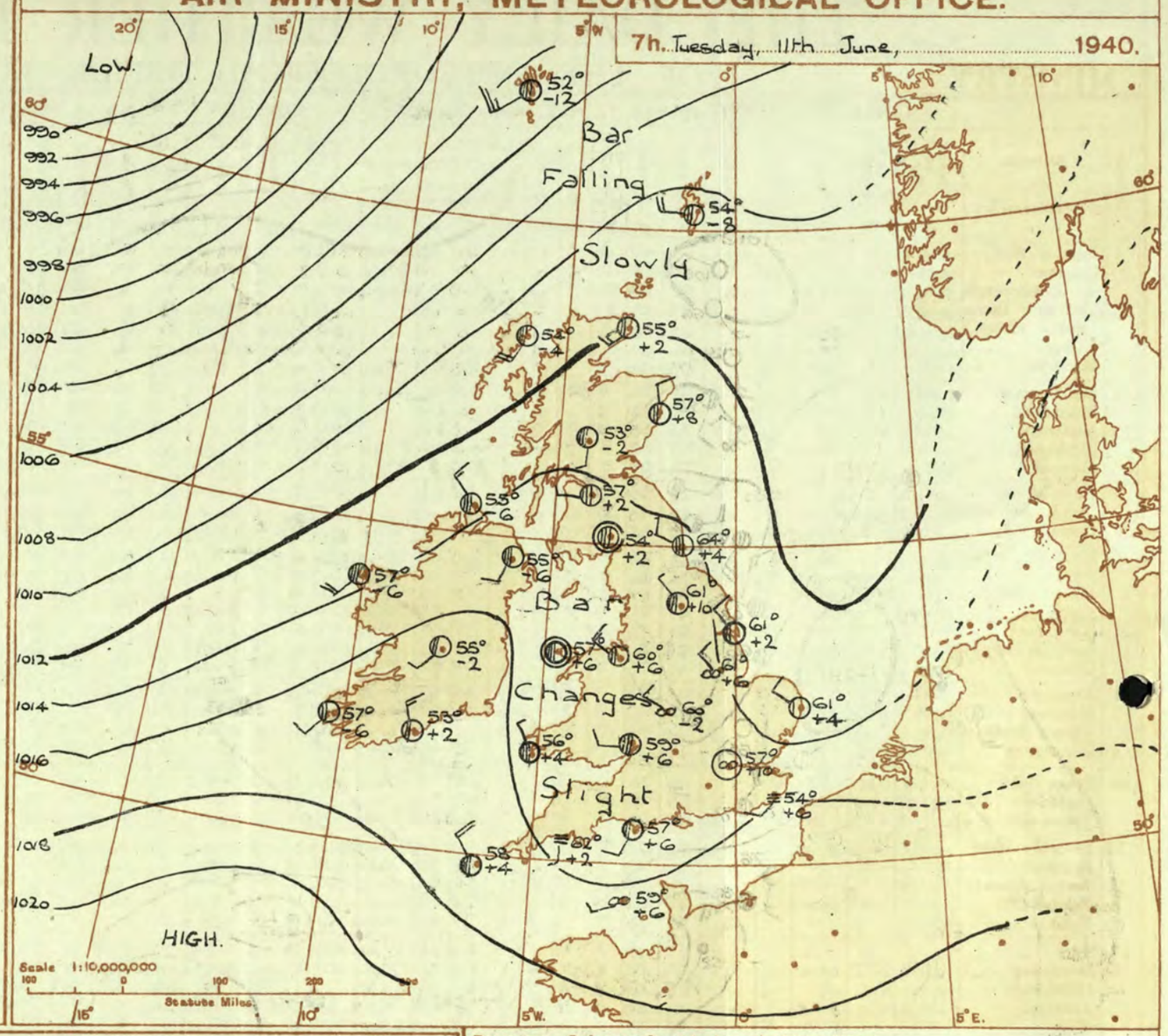
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday, 11th June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 11th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light west to northwest wind; bright intervals, local thunderstorms today; warm.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light west wind, backing southwest; fair or fine today, some rain or drizzle tomorrow; average temperature.
9 N. Midlands ... 10 N.E. England	As 1 - 3.
11 S.E. Scotland	Light west to southwest wind; fair; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Light to moderate southwest wind; fair to cloudy at first; occasional rain tomorrow; average temperature.
15 N. E. Scotland 16 Orkneys and Shetlands	Light southwest to west wind; fair; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light southwesterly wind, becoming moderate to fresh; fair, becoming cloudy; rain spreading from west; temperature becoming rather cool.

GENERAL INFERENCE.

A depression off Southwest Iceland is deepening and tending to move slowly northeast. An associated trough of low pressure over the Western North Sea and a ridge of high pressure over the Irish Sea are moving slowly eastwards and will be followed by another trough from the Atlantic. There will be local thunderstorms in Midlands and Eastern England today. Elsewhere weather will be fair or fine at first, but rain will affect Ireland tonight and western districts of England and Scotland tomorrow. Temperatures will be rather warm in the east. and about average in the west and north.

FURTHER OUTLOOK.

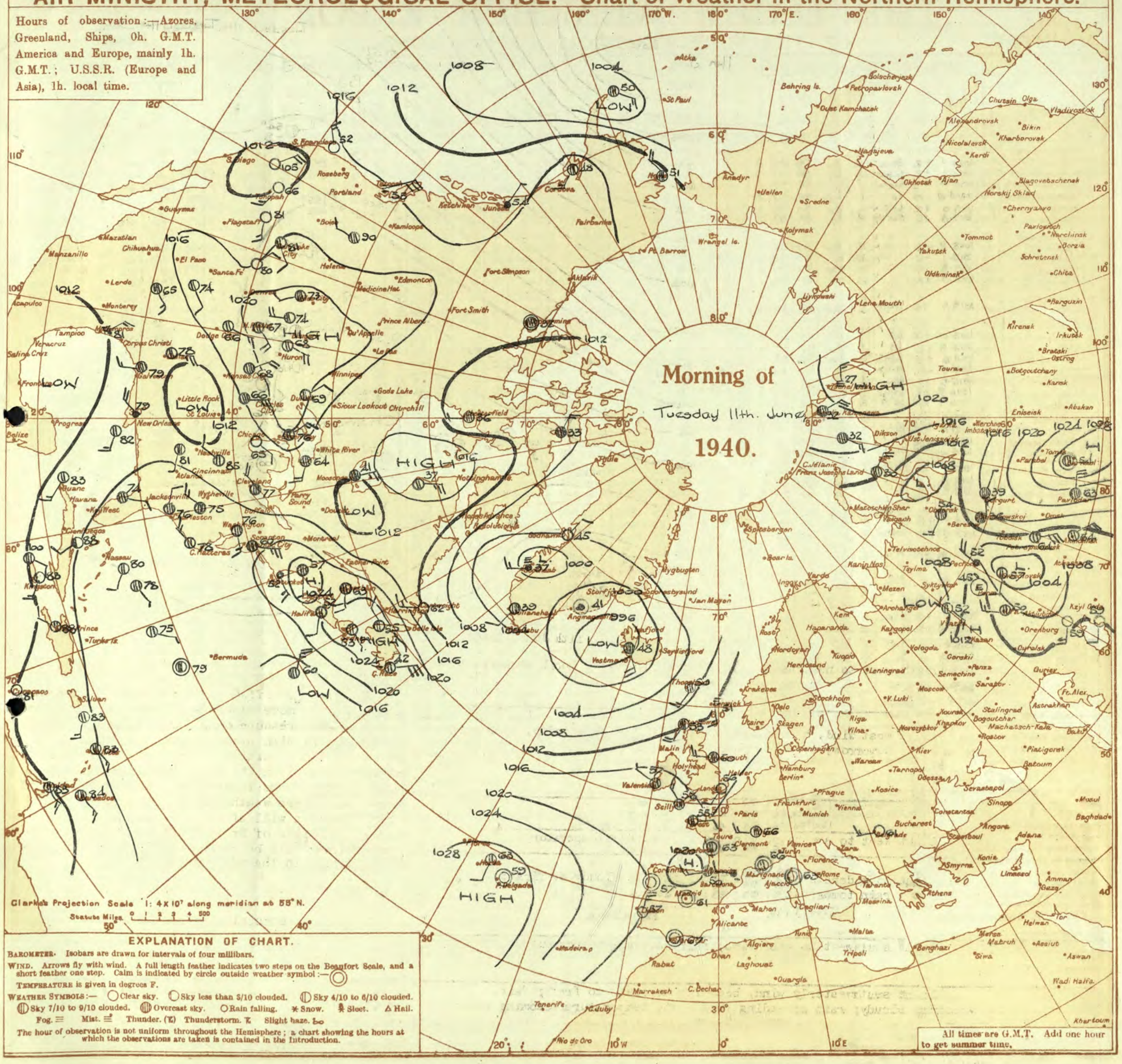
Unsettled especially in the northwest.

Forecasts issued at 1030.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 11th June 1940.

No. 28,691

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1014·1	+2	SSW	2	Zo	56	92	5	-	-	-	0	0	-
	S. Farnborough	226	1014·1	+2	WSW	2	Zo	56	97	6	-	-	-	0	0	-
	Boscombe Down	417	1014·6	+2	NW'N	1	b	56	97	6	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1014·4	0	W	1	f+	56	97	2	-	-	-	10	10	<150
	Lympne ...	346	1015·0	+2	W'S	1	Zo	54	97	5	-	-	-	0	0	-
	Manston ...	154	1013·8	+6	SW'W	2	m	55	92	4	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1013·2	-2	-	0	Zo	59	92	5	-	-	-	0	0	-
	Gorleston ...	5	1013·1	-4	-	0	c	59	85	6	5	-	-	9+	9+	2500
	Mildenhall ...	19	1012·8	0	-	0	Zo	55	97	6	-	1	-	0	2·3	-
	Cranwell ...	240	1014·0	+2	-	0	m	61	75	4	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1013·9	+6	NNW	2	Zo	58	85	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1015·0	-2	W	1	c	60	92	8	5	-	-	9	9	2500
	Bristol ...	209	1014·5	+2	W	1	Zo	57	97	6	-	-	-	0	0	-
	Portland Bill ...	32	1014·6	+2	WSW	3	bc	55	85	7	5	-	-	4·6	4·6	4000
	Plymouth ...	82	1015·3	-2	NNW	2	c	62	85	7	-	3	-	0	8+	-
	The Lizard ...	240	1015·9	0	NW	3	pr	58	92	8	8	2	-	7·8	10	1500
	Scilly (St. Mary's)	163	1016·7	-2	WNW	3	c	58	85	8	8	7	-	4·6	9+	1500
	Guernsey ...	175	1015·7	0	W'N	2	c	58	85	7	8	-	-	9+	9+	1500
6	Pembroke ...	142	1015·5	0	-	0	c	57	92	7	8	-	-	9+	9+	2500
7	Holyhead ...	26	1015·0	+6	NW	3	c	57	92	8	5	-	-	9	9	2500
	Chester (Sealand)	16	1014·6	+2	-	0	Zo	53	92	6	5	-	1	2·3	4·6	4000
8	Manchester ...	70	1014·4	+6	NW'W	2	b	49	97	6	5	4	-	Tr	1	4000
10	Spurn Head ...	29	1012·1	0	SW'S	2	b	60	92	5	-	-	-	0	0	-
	Catterick ...	175	1012·8	+6	-	0	Zo	59	75	6	4	7	-	4·6	7·8	5700
	Tynemouth ...	108	1012·8	+4	W	3	c	60	85	6	8	-	-	7·8	7·8	2500
11	St. Abbs Head	280	1012·0	0	WNW	4	pr	50	75	8	8	2	-	4·6	9+	1500
	Leuchars ...	36	1012·7	+8	W	3	bc	57	75	7	5	8	-	1	4·6	2500
12	Renfrew (Abbots I.)	19	1014·3	+4	WSW	3	b	52	85	7	5	4	-	Tr	Tr	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1014·8	+10	NW	2	c	55	92	8	4	3	-	4·6	7·8	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1011·8	0	SSW	4	c	53	85	7	5	7	-	4·6	9	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1011·4	+2	WNW	1	c	52	97	7	8	7	1	4·6	7·8	1500
16	Lerwick ...	156	1012·4	+2	S	4	F	51	97	1	-	-	.	10	10	<150
17	Blacksod Point	18	1015·7	-4	W	2	bc	53	75	8	3	-	-	2·3	2·3	2500
18	Malin Head ...	84	1014·8	0	NW	2	c	54	75	8	1	-	4	2·3	7·8	5700
	Aldergrove ...	268	1015·3	+2	W	1	c	53	75	8	5	-	-	9	9	2500
19	Birr Castle ...	173	1017·0	+2	-	0	b	53	85	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1017·9	-6	W'N	1	c	57	75	8	2	-	7	2·3	9+	2500
	Roches Point	22	1017·0	+4	NNW	5	bc	56	85	8	5	-	-	2·3	2·3	2500

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

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)	1015·2	+10	WSW	1	oF	56	92	1	5	-	-	10	10	2500	1	*
	Croydon ...	1015·0	+10	-	0	Zo	57	97	6	5	3	-	9	9	800	0	*
	S. Farnborough	1015·1	+8	-	0	Zo	57	97	5	5	3	9	4·6	7·8	1500	0	*
	Boscombe Down	1015·5	+6	-	0	Zo	58	97	5	5	3	-	4·6	9	4000	0	*
	Calshot (Sthmtn.)	1015·6	+8	SW'S	2	Zo	59	92	6	-	3	-	0	9	-	0	1
	Lympne ...	1016·1	+6	SW	2	F	54	97	1	-	-	-	10	10	<150	0	§2
	Manston ...	1014·9	+10	SW	3	Zo	60	85	5	-	-	1	0	2·3	-	0	*
2	Shoeburyness ...	1014·7	-6	SW'W	1	bm	62	85	4	-	-	-	0	0	-	0	*
	Felixstowe ...	1013·8	+2	W'N	2	m	61	85	4	-	-	1	0	1	-	0	1
	Gorleston ...	1013·2	+4	WNW	2	b	61	85	6	-	-	-	0	0	-	0	1
	Mildenhall ...	1013·9	+6	NW	2	Zo	59	92	5	-	-	-	0	0	-	0	*
	Cranwell ...	1015·0	+6	NW	2	Zo	61	75	6	-	-	2	0	4·6	-	0	*
3	Birmingham ...	1015·3	-6	WNW	2	b	60	85	5	-	-	-	0	0	-	1	*
	Upper Heyford	1014·7	+6	NW	2	Zo	60	85	6	-	4	1	0	2·3	-	1	*
4	Ross-on-Wye	1015·4	+6	W	2	c	59	85	7	5	3	-	7·8	9	1500	0	*
5	Hartland Point	1015·0	+6	SW	2	bc	61	85	8	4	4	-	4·6	4·6	2500	0	1
	Bristol ...	1015·5	+6	-	0	Zo	62	85	6	5	3	-	4·6	4·6	4000	0	*
	Portland Bill ...	1015·6	+6	SSW	2	bc	57	85	7	5	-	-	4·6	4·6	4000	0	2
	Plymouth ...	1015·5	+2	S	1	fs	62	92	6	8	-	-	9	9	1500	0	1
	The Lizard ...	1016·2	+2	-	0	bc	60	97	8	8	4	-	4·6	4·6	2500	0	1
	Scilly (St. Mary's)	1016·1	+4	NW'N	4	c/pr	58	97	8	8	7	-	4·6	9+	1500	1	1
	Guernsey ...	1016·5	+6	WSW	1	Zo	59	92	6	8	-	-	9	9	1500	0	2
6	Pembroke ...	1015·4	+4	NNW	1	c	56	92	7	8	2	-	7·8	9+	1500	0	1
7	Holyhead ...	1015·5	+6	-	0	c	57	85	8	-	3	6	0	9	-	0	1
	Chester (Sealand)	1015·2	+6	WNW	3	c	60	75	7	5	3	-	2·3	7·8	1500	0	*
8	Manchester ...	1015·1	+6	S	1	Zo	58	92	5	7	3	-	2·3	7·8	2500	0	*
10	Spurn Head ...	1013·3	+2	NW'N	2	bc	61	85	6	-	8	1	0	4·6	-	0	1
	Catterick ...	1014·5	+10	NW	1	c	61	75	8	-	7	-	0	9	-	0	*
	Tynemouth ...	1014·2	+4	WNW	2	c	64	65	6	8	-	-	9	9	2500	1	1
11	St. Abbs Head	1013·2	+8	WNW	3	bc	55	65	8	4	4	9	2·3	4·6	2500	0	2
	Leuchars ...	1013·2	+2	SW	3	c	58	75	9	-	7	7	0	7·8	-	1	*
12	Renfrew (Abbots I.)	1014·7	+2	W	1	c	57	75	8	8	1	2	2·3	7·8	2500	0	*
	Eskdalemuir ...	1014·4	+2	-	0	c	54	75	8	-	7	8	0	7·8	-	0	*
	Point of Ayre ...	1015·2	+2	NW'N	2	c	56	85	8	5	-	7	Tr	10	2500	0	1
13A	Tiree ...	1011·5	-4	SSW	4	c	54	85	8	5	7	-	4·6	9+	2500	0	2
13B	Stornoway ...	1013·8	-2	S	1	c	53	75	8	4	6	-	4·6	9+	4000	0	*
15	Dalwhirnie ...	1012·2	+8	N'W	2	bc	57	85	8	7	3	-	4·6	4·6	2500	1	1
	Aberdeen ...	1012·0	+2	SW	3	bc	55	85	8	5	4	9	1	2·3	2500	1	1
	Wick ...	1011·3	-8	W	4	bc	54	85	8	5	4	-	4·6	4·6	1500	0	*
16	Lerwick ...	1013·9	-6	SW	4	c	57	85	8	5	-	-	7·8	7·8	2500	0	2
17	Blacksod Point	1013·7	-6	NW	3	c	55	75	8	8	-	-	7·8	7·8	5700	0	0
18	Malin Head ...	1014·8	-6	SSW	2	c	55	85	7	5	-	7	1	10	1500	0	*
	Aldergrove ...	1016·5	-2	SW	1	bc	55	75	8	-	-	5	0	2·3	-	0	*
19	Birr Castle ...	1016·9	-6	SW'S	2	bc	57	65	8	7	-	1	1	2·3	2500	0	2
20	Valentia Obsy.	1017·2	+2	NNW	3	bc	53	85	8	-	-	5	0	2·3	-	0	1
	Roches Point																

PAST 24 HOURS.

District	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 10th Hrs. (36)
1	London (Kew)	63	53	43	Tr	Tr	0·0
	Croydon ...	66	52	47	-	-	0·2
	S. Farnborough	72	48	43	-	-	1·7
	Boscombe Down	73	(51)	42	-	-	4·5
	Calshot (Sthmtn.)	70	53	49	-	-	6·6
	Lympne ...	75	50	40	-	-	5·8
	Manston ...	75	53	49	-	-	7·5
2	Shoeburyness ...	72	57	39	Tr	-	3·1
	Felixstowe ...	69	57	52	-	-	7·2
	Gorleston ...	71	57	56	Tr	-	10·5
	Mildenhall ...	78	51	44	Tr	-	7·2
	Cranwell ...	81	(57)	53	-	-	0·6
3	Birmingham ...	73	55	50	-	Tr	8·5
	Upper Heyford	74	55	48	-	-	*
4	Ross-on-Wye	79	53	30	-	Tr	8·1
5	Hartland Point	68	57	55	-	-	10·6
	Bristol ...	76	52	45	-	-	8·8
	Portland Bill ...	62	55	*	-	-	*
	Plymouth ...	69	58	54	-	-	7·8 7·9.
	The Lizard ...	67	57	*	-	0·2	5·6
	Scilly (St. Mary's)	66	57	*	-	0·4	0·4
	Guernsey ...	67	56	51	-	Tr	5·4
6	Pembroke ...	67	55	*	-	-	8·6
7	Holyhead ...	63	53	52	Tr	-	7·7
	Chester (Sealand)	72	66	45	Tr	-	11·3
8	Manchester ...	79	46	46	-	-	12·4
10	Spurn Head ...	74	57	*	Tr	-	6·6
	Catterick ...	88	55	48	Tr	-	10·7
	Tynemouth ...	(72)	58	54	0·2	0·2	*
11	St. Abbs Head	68	53	*	-	Tr	*
	Leuchars ...	79	50	42	Tr	Tr	6·1
12	Renfrew (Abbots I.)	79	48	40	-	-	6·5
	Eskdalemuir ...	74	47	41	-	-	13·0
	Point of Ayre ...	(67)	53	*	-	-	11·3
13A	Tiree ...			*	0·3		
13B	Stornoway ...	65	51	*	0·1	-	2·2
15	Dalwhirnie ...	68	43	37	-	-	4·6
	Aberdeen ...	68	53	47	-	0·1	6·8
	Wick ...	55	51	*	-	0·2	*
16	Lerwick ...	56	50	*	-	0·5	7·4
17	Blacksod Point	64	52	*	0·1	-	*
18	Malin Head ...	64	49	*	-	-	11·1
	Aldergrove ...	71	46	44	Tr	Tr	3·2
19	Birr Castle ...	70	47	45	Tr	-	7·9
20	Valentia Obsy.	64	52	44	-	-	12·2
	Roches Point	69	52	*	-	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (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	cbcfeg	cfegcprcf	effecfefe	63	53	43	Tr	Tr	0·0	*	*	6
CROYDON ...	217	cmomg	cmocmbc	bcmowcwo	66	52	47	-	-	0·2	*	*	5
GREENWICH (Royal Observatory) ...	149	cm	cmc	cmwbmo	66	55	46	-	Tr	0·3	85	78	5
CITY (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	66	54	48	-	-	0·0	81	77	*
REGENTS PK. (Botanic Gardens)‡ ...	168	*	*	*									*
CAMDEN SQUARE ...	110	o	c	*	64	55	49	-	-	*	*	83	*
KENSINGTON ...	80	bccm	cm	*	64	54	49	-	Tr	*	98	85	*
HAMPSTEAD OBSERVATORY ...	450	o	o	bc	65	53	50	-	-	*	*	93	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0·4	17h	0·1	07h
	10h		11h

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 10th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 11th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
PARIS ...														
BRUSSELS ...														
BERLIN ...														
ZÜRICH ...														
ROME ...														

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Wednesday 12th June 1940.

No. 28692

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1014.0	-8	SSW	3	z₀	72	65	6	2	-	-	7-8	7-8	2500
	Croydon ...	1014.5	-2	W'S	2	bc	74	65	6	2	-	-	4-6	4-6	2500
	S. Farnborough	1013.9	-8	WSW	3	c	75	55	8	8	-	-	7-8	7-8	4000
	Boscombe Down	1014.3	-6	SW'S	4	bc	74	45	9	2	8	-	2-3	4-6	4000
	Calshot (Soton.)	1015.4	+2	SW	5	bc	68	75	8	2	3	-	2-3	4-6	4000
	Lympne ...	1015.0	-10	SW	2	bc	73	65	7	1	-	4	Tr	4-6	1500
	Manston ...	1013.9	-10	SW'W	4	bc	79	45	7	2	-	3	1	4-6	2500
2	Shoeburyness ...	1014.0	-12	WSW	3	z₀	78	55	6	2	-	-	1	1	5700
	Felixstowe ...	1013.4	-4	S'W	3	z₀	73	65	5	2	-	-	4-6	4-6	2500
	Gorleston ...	1013.2	0	NNE	4	c	63	85	6	5	-	-	7-8	7-8	2500
	Mildenhall ...	1013.6	-6	NNW	2	z	74	65	6	2	-	-	4-6	4-6	4000
	Cranwell ...	1013.2	-10	SSW	1	c	78	35	7	2	-	-	7-8	7-8	2500
3	Birmingham	1013.9	-4	SW	2	bc	72	55	8	1	8	-	1	2-3	4000
	Upper Heyford	1014.2	-6	WNW	2	bc	73	55	7	8	-	-	4-6	4-6	4000
4	Ross-on-Wye ...	1014.0	-10	E	3	bc	71	65	7	8	-	-	4-6	4-6	4000
5	Hartland Point	1014.6	-4	WNW	3	c	65	85	8	7	4	-	4-6	7-8	2500
	Bristol ...	1014.3	-8	-	0	c	71	65	7	7	-	-	7-8	7-8	2500
	Portland Bill ...														
	Plymouth ...	1015.4	-2	SSW	4	bc	66	75	8	2	4	-	2-3	2-3	2500
	The Lizard ...	1015.8	0	W'N	3	bc	65	75	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1017.0	+4	NW	4	c	67	65	8	5	4	-	4-6	7-8	1500
	Guernsey ...	1016.2	-4	W'N	2	bc	67	65	8	1	3	1	2-3	2-3	2500
6	Pembroke ...	1014.8	-4	NNW	2	bc	62	85	7	2	7	-	4-6	4-6	2500
7	Holyhead ...	1014.5	-12	NW	2	c	60	75	8	7	-	5	4-6	7-8	2500
	Chester (Sealand)	1013.9	-6	-	0	bc	69	55	8	2	-	9	4-6	4-6	2500
8	Manchester ...	1013.8	-14	W'N	3	bc	72	55	8	1	-	-	4-6	4-6	2500
10	Spurn Head ...	1013.7	0	ENE	3	c	68	65	6	2	-	2	2-3	7-8	800
	Catterick ...	1012.7	-10	SWS	1	c	73	45	8	8	-	-	9	9	2500
	Tynemouth ...	1013.9	-4	SSE	2	c	60	85	7	2	-	-	9	9	2500
11	St. Abbs Head	1012.8	-6	NNE	3	c	61	65	8	7	5	4	4-6	7-8	2500
	Leuchars ...	1011.7	-14	WSW	3	c	68	45	8	8	4	1	4-6	7-8	2500
12	Renfrew (Abbots I.)	1012.8	-10	SW'W	3	c	64	45	8	1	-	4	2-3	7-8	4000
	Eskdalemuir ...	1012.4	-6	SW	4	c	65	55	8	7	-	2	4-6	7-8	2500
	Point of Ayre ...	1014.5	-4	SSE	3	c	63	65	8	1	-	6	Tr	7-8	4000
13A	Tiree ...	1010.7	-6	S	4	dd	58	85	7	-	2	-	10	10	1500
13B	Stornoway ...	1010.2	-16	S	6	c/pr	57	85	7	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1011.6	-14	S	5	c	61	55	8	4	6	5	2-3	9+	4000
	Aberdeen ...	1011.9	-8	SE'S	3	cjf	61	75	7	7	-	6	2-3	7-8	4000
	Wick ...	1010.0	-6	SSE	3	c	59	75	8	5	7	8	2-3	9+	2500
16	Lerwick...	1010.5	-10	SW	4	c	57	75	8	5	7	8	4-6	7-8	2500
17	Blacksod Point...	1011.3	-12	S'W	4	c	61	75	8	5	-	-	7-8	7-8	2500
18	Malin Head ...	1011.6	-12	SSW	3	c	60	65	9	9	-	-	7-8	7-8	7200
	Aldergrove ...	1012.7	-16	SW'S	3	c	65	55	8	7	-	8	7-8	7-8	2500
	Birr Castle ...	1014.1	-14	SW	2	c	65	55	8	8	-	8	7-8	7-8	2500
20	Valentia Obsy. †	1015.7	-10	S'W	4	ir₀	58	85	8	5	2	-	9+	10	1500
	Roches Point ...	1015.3	-12	SW	3	bc	63	65	8	7	-	-	4-6	4-6	4000

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1012.5	-10	SSW	3	bc	72	45	8	3	-	2	2-3	2-3	2500	0	*
Croydon	1013.2	-8	SW'S	3	b	73	45	8	4	-	3	Tr	1	4000	0	*
S. Farnborough	1012.7	-10	SW'S	4	b	71	45	8	1	-	5	Tr	Tr	4000	0	*
Boscombe Down	1012.9	-8	SSW	4	b	69	55	8	1	-	-	1	1	4000	0	*
Calshot (Soton.)	1013.8	-14	SW	4	b	65	75	8	1	3	-	1	1	2500	0	2
Lympne	1014.4	-6	SW	3	bc	68	65	8	2	8	1	1	2-3	4000	0	§3
Manston	1012.6	-22	WSW	3	c	73	55	7	2	-	3	4-6	7-8	5700	0	*
Shoeburyness	1012.4	-10	SW	2	bc	74	55	8	2	1	-	2-3	4-6	5700	0	*
Felixstowe	1012.5	-4	ENE	3	ct	65	75	6	3	-	-	7-8	7-8	2500	0	1
Gorleston	1013.0	-2	NNE	2	bc	61	85	7	5	-	-	4-6	4-6	2500	0	1
Mildenhall	1011.6	-10	WSW	5	pr	74	55	6	8	2	-	9	10	1500	0	*
Cranwell	1011.8	-8	E'S	3	PR	67	65	7	9	-	-	9+	9+	2500	1	*
Birmingham	1011.8	-10	-	0	bc	70	55	8	2	7	-	Tr	4-6	4000	1	*
Upper Heyford	1012.6	-10	W	3	bc	74	55	8	2	-	-	4-6	4-6	2500	0	*
Ross-on-Wye	1011.9	-16	SW	3	b	69	68	8	8	-	-	1	1	4000	0	*
Hartland Point	1014.1	-6	W	2	bc	61	85	8	7	4	-	4-6	4-6	2500	0	2
Bristol	1013.2	-2	SW'W	3	bc	69	65	8	2	3	-	2-3	2-3	4000	0	*
Portland Bill	1014.1	-10	SSW	3	bc	60	85	8	1	-	-	2-3	2-3	4000	0	2
Plymouth	1014.1	-4	NW	4	c	65	65	8	8	7	-	7-8	7-8	1500	0	2
The Lizard	1015.3	-4	W'N	3	bc	62	65	8	8	6	-	4-6	4-6	2500	0	1
Scilly (St. Mary's)	1015.7	-8	W'N	3	bc	62	75	8	8	4	6	4-6	4-6	1500	0	2
Guernsey	1014.6	-12	WSW	1	c	66	65	9	-	7	1	0	2-3	-	0	2
Pembroke	1014.0	-2	WNW	2	bc	59	85	7	2	6	1	2-3	4-6	2500	0	1
Holyhead	1012.3	-14	SSW	3	bc	62	65	9	8	-	1	Tr	2-3	2500	0	2
Chester (Sealand)	1012.5	-22	WNW	1	c	59	85	7	8	7	-	7-8	9	4000	1	*
Manchester	1012.2	-6	NW'N	2	c	60	65	7	5	3	-	9	9+	2500	0	*
Spurn Head	1011.7	-8	ESE	3	bc	61	85	6	1	-	-	2-3	2-3	1500	0	2
Catterick	1011.3	-10	W	2	c	75	55	8	2	7	2	Tr	9	4000	0	*
Tynemouth	1012.2	-8	SSE	2	bc	60	85	7	2	3	1	4-6	4-6	2500	0	1
St. Abbs Head	1010.3	-12	SSE	4	bc	58	65	9	4	4	6	4-6	4-6	2500	0	2
Leuchars	1009.8	-10	SW	3	bc	67	45	8	4	6	6	1	2-3	4000	0	*
Renfrew (Abbots I.)	1010.9	-14	SW'S	2	c	62	65	9	5	-	-	9+	9+	4000	0	*
Eskdalemuir	1010.8	-10	WSW	3	bc	62	45	8	5	-	2	Tr	2-3	4000	0	*
Point of Ayre	1011.8	-36	SSE	2	b	61	75	8	1	-	-	Tr	Tr	4000	0	1
Tiree	1008.1	-12	S	4	dd	56	92	7	-	2	-	10	10	1500	1	3
Stornoway	1007.7	-20	S	6	r₀r₀	53	92	7	6	7	-	7-8	10	800	1	3
Dalwhinnie	1010.2	-6	SW	4	c	57	65	8	4	7	4	2-3	9+	4000	0	
Aberdeen	1009.3	-16	S	4	b	63	55	7	7	-	9	1	1	4000	0	1
Wick	1008.9	-12	SE	4	c	54	92	8	5	1	9	4-6	9+	2500	0	2
Lerwick	1010.2	0	S'W	4	c	53	92	8	5	7	-	4-6	7-8	1500	0	*
Blacksod Point	1008.1	-20	S	6	r₀r₀	56	97	7	6	-	-	10	10	<150	1	4
Malin Head	1009.0	-18	S'W	4	c/pr	59	75	8	6	7	-	2-3	9	4000	0	2
Aldergrove	1010.8	-14	SW	3	c	62	65	8	6	-	-	9	9	4000	0	*
Birr Castle	1011.6	-8	SW	2	c	62	65	8	5	1	-	7-8	10	1500	0	*
Valentia Obsy. †	1012.3	-22	SSW	4	r₀r₀	57	92	7	5	2	-	4-6	10	1500	1	2
Roches Point	1013.3	-10	WSW	4	c	61	65	8	5	-	-	9	9	2500	0	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 11th (37)	13h.—18h. 11th (38)	18h. 11th to 1h. 12th (39)	1h.—7h. 12th (40)
London (Kew)	bcm,cz₀	zbcy	bcbyb	bbcw
Croydon	cmbz₀	bcyby	bybw	bwcbc
S. Farnborough	cz₀bccy	cby	bybcb	bwcbc
Boscombe Down	cbcz₀	bcby	bbc	bc
Calshot (Soton.)	bm,bc	bcb	bjffscm₀	cm₀c
Lympne	Fcbcm₀	bcjfbc	bcbjpF	bfcm₀
Manston	bz₀bcy	bc	bcybcbw	bbccw
Shoeburyness	bmbyz₀	byz₀bc	bc,b	bbcm₀
Felixstowe	bmbczy	bz₀ctz₀	ctlbcm₀	bm₀bcm₀w
Gorleston	bbccz₀	cbc	bcwoz₀lt	bcz₀w
Mildenhall	bmbcz₀	bcz₀cypr	cyprbc	bccm₀
Cranwell	bcz₀,cy	c	m₀bc	bmdm,c
Birmingham	bbc	bc	bc	bcb
Upper Heyford	bc	bc	bbm₀	bcm.
Ross-on-Wye	bccbc	cPbcbb	bc	bcb
Hartland Point	bcc	cbc	bccbc	bccr
Bristol	bcmz₀c	cbcy	bcb	bcw
Portland Bill		bcbc	cbc	c
Plymouth	cmz₀fbcmz₀b	bbcc	bc	bc
The Lizard	cbc	bc	bc	cid
Scilly (St. Mary's)	c	cbc	bcc	cpoid₀
Guernsey	cz₀bc	bc	zbcw	bcw
Pembroke	cbc	bccbc	bc	pror₀r₀r₀m₀
Holyhead	cbc ⊕	bbc	bwbc	bcr₀r₀c
Chester (Sealand)	bccbc	bccprmc	cbcm₀w	bcz₀cw
Manchester	cmz₀cbc	bcycpr₀	r₀r₀r₀r₀m₀	cmm₀
Spurn Head	c	c	bcw	c
Catterick	ccy	cbccy	pr₀cir₀	
Tynemouth	cbcc	cbc	bcc	c
St. Abbs Head	bcc	c	bc	bc
Leuchars	cbcycy	cyby	bycbcb	b,c.
Renfrew (Abbots I.)	bcy	bccy		cm₀r₀lr
Eskdalemuir	cybcy	bcy	bcybc	bccir₀
Point of Ayre	c	b	bc	cir₀
Tiree	c	odrid	odrc	cirbc
Stornoway	cpr₀	cr₀r₀	cr₀r₀pr	cir₀
Dalwhinnie	c	c		cir
Aberdeen	bccbc	bcby	byb	bbc
Wick	bcc	c	c	cpr₀c
Lerwick	bcc	c	c	c
Blacksod Point	c	rr	bcc	bc
Malin Head	c	ccpr₀c	cpr₀cpr₀c	c
Aldergrove	cbccy	cyc	ccirr₀c	irdododo
Birr Castle	cy	c	cir	c
Valentia Obsy. †	bccir₀	ir₀pr₀r₀r₀	r₀r₀irr₀r₀c	cbccpr₀c
Roches Point	bc	c	rcir	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕ Solar halo. Ⓘ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain ; —, has decreased ; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

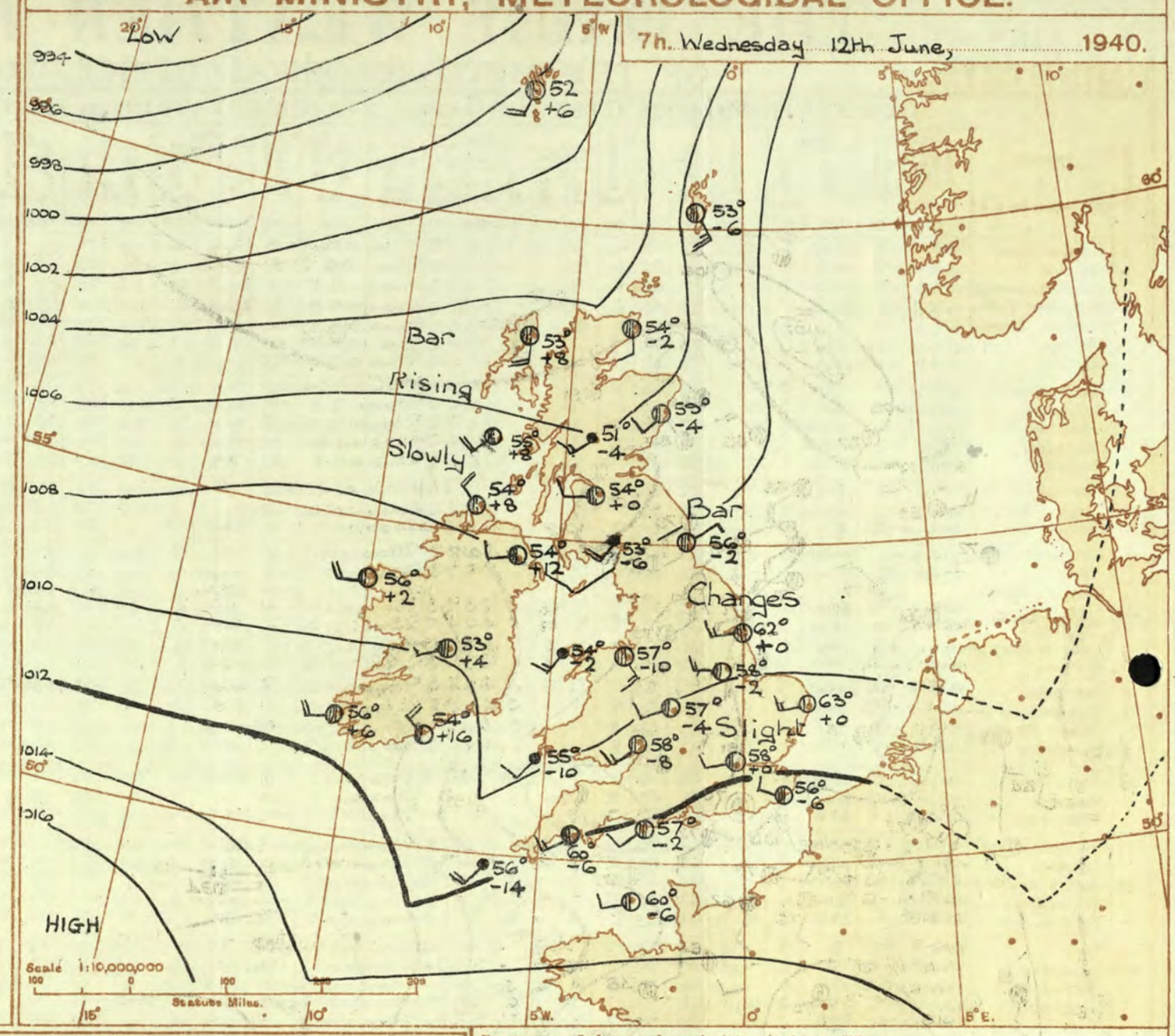
Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 12th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind southwest, veering west, light; fair at first, becoming cloudy with slight rain and local thunder this evening; fair or fine after midnight. Rather warm to-day, becoming cooler.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light southwest to west wind; occasional slight rain at first, becoming fair or fine by evening; average temperature.
10 N.E. England 11 S.E. Scotland	Light southwest to west wind; occasional rain this afternoon, becoming fair to cloudy; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Light westerly wind; fair to cloudy; local showers; rather cool.
15 N. E. Scotland	As 10 - 11.
16 Orkneys and Shetlands	Light to moderate southerly wind, veering southwest. Occasional rain to-day, cloudy with occasional showers to-morrow. Rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate west wind, backing south to southwest later; fair to cloudy; local showers; average temperature.

GENERAL INFERENCE.

A trough of low pressure extending from Scilly to Scotland is moving eastwards and will reach the east coast late this evening. Intermittent slight rain and local thunder will occur with the trough, otherwise weather will be mainly fair apart from local showers in the West and North and local fog in the Channel. Temperatures will be rather warm in Eastern England, and about average elsewhere.

FURTHER OUTLOOK.

Unsettled.

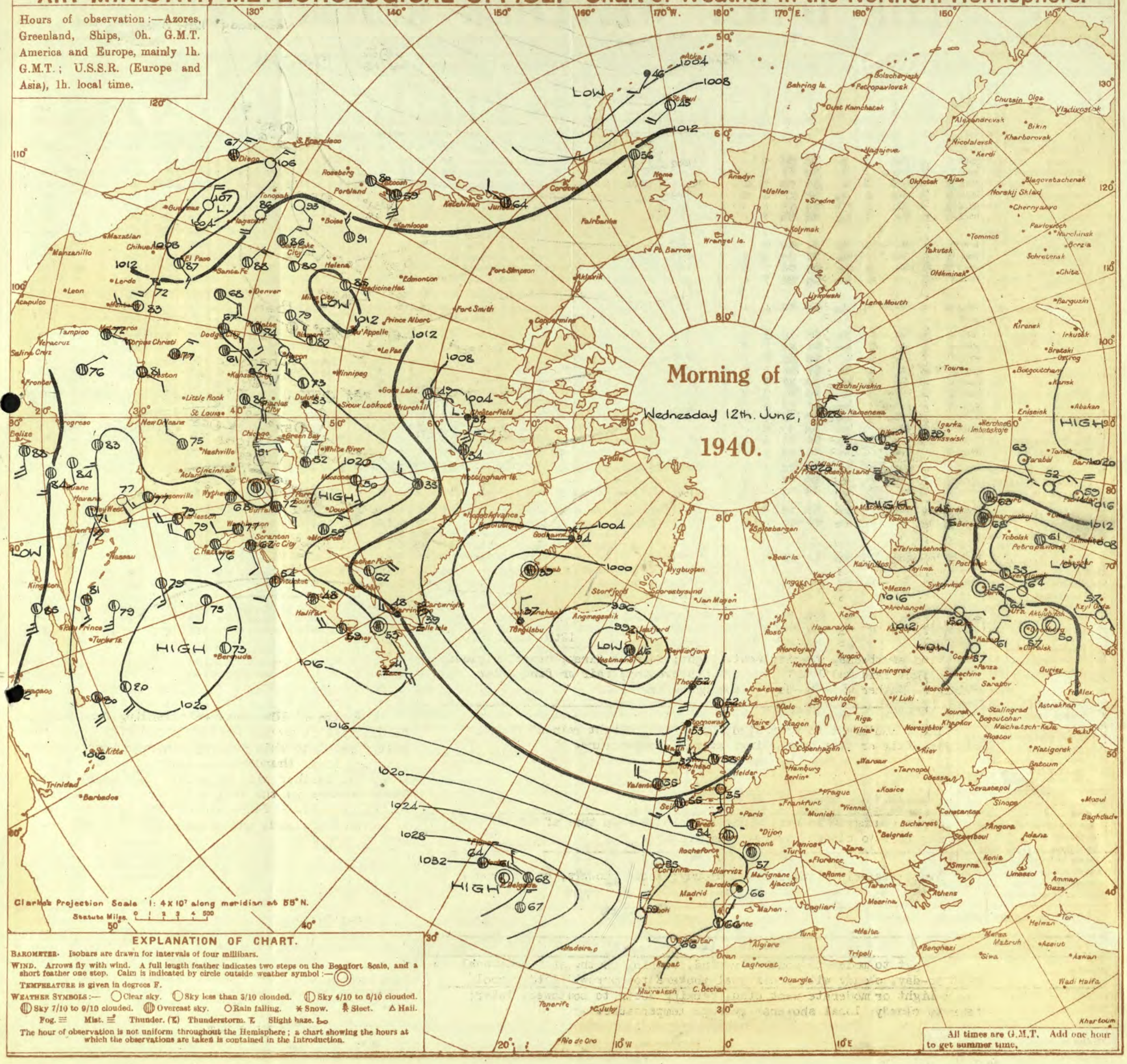
Forecasts issued at 1000 G.M.T.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 12th June 1940.

No. 28692

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

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	1012.6	-10	SW	3	b	55	85	7	-	-	-	0	0	-
	S. Farnborough	226	1012.7	-8	SSW	3	b	55	97	7	-	4	-	0	Tr	-
	Boscombe Down	417	1012.9	-6	W'S	3	b	52	85	7	5	-	-	1	1	2500
	Calshot (Sthmtn.)	8	1013.3	-10	SW	2	z0	59	97	6	5	-	-	9+	9+	1500
	Lympne	346	1014.3	-6	SW	2	F+	53	97	1	-	-	-	10	10	<150
	Manston	154	1012.9	-2	S'E	2	bc	55	85	7	-	7	-	0	2-3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1011.9	-6	SW'W	3	z0	61	85	6	-	-	-	0	0	-
	Gorleston	5	1011.5	-16	SW	1	bc	57	92	6	5	-	-	4-6	4-6	1500
	Mildenhall	19	1010.8	-8	SW	3	bc	59	85	7	5	-	-	2-3	2-3	4000
	Cranwell	240	1010.1	-12	-	0	bc	59	85	7	5	7	-	1	4-6	5700
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1012.0	-6	SW'W	2	z0	54	92	6	4	-	-	Tr	Tr	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012.0	-20	W	3	bc	57	75	8	5	-	5	2-3	4-6	1500
	Bristol	209	1013.0	-6	W	3	bc	54	85	7	5	-	-	2-3	2-3	4000
	Portland Bill	32	1013.1	-6	NW	2	c	57	85	8	5	-	-	7-8	7-8	4000
	Plymouth	82	1013.8	-10	W	2	bc	57	85	7	5	7	-	2-3	4-6	4000
	The Lizard	240	1014.6	-10	W	2	bc	52	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1014.2	-12	WSW	3	c	55	85	8	8	2	3	4-6	9+	1500
	Guernsey	175	1014.3	-6	WNW	1	bc	57	92	8	5	7	-	2-3	4-6	2500
6	Pembroke	142	1011.3	-10	WSW	3	bc	57	75	7	8	2	-	4-6	4-6	1500
7	Holyhead	26	1009.5	-18	SSW	4	bc	54	92	8	-	3	-	0	4-6	-
	Chester (Sealand)	16	1011.0	-10	-	0	z0	56	75	6	5	-	-	4-6	4-6	2500
8	Manchester	70	1010.8	-10	WSW	2	m	55	97	4	5	7	-	9	10	2500
10	Spurn Head	29	1009.5	-12	SE	2	bc	59	92	5	6	-	-	2-3	2-3	800
	Catterick	175	1010.1	-8	-	0	ir0	58	85	7	5	7	-	9	9+	4000
	Tynemouth	108	1010.9	-10	W	3	c	58	75	6	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	1008.5	-14	WSW	3	bc	52	75	8	4	4	-	2-3	2-3	2500
	Leuchars	36	1007.9	-10	-	0	bc	54	85	7	5	-	-	2-3	2-3	4000
12	Renfrew (Abbots I.)	19														
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1008.8	-14	SSW	4	bc	54	92	8	-	7	-	0	2-3	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1004.5	-12	S	6	pr	53	97	6	5	7	-	7-8	9	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1006.0	-10	S	3	c	52	97	7	5	7	6	4-6	7-8	800
16	Lerwick	156	1008.8	-12	SSE	4	c	52	92	8	5	7	-	4-6	7-8	800
17	Blacksod Point	18	1007.7	+4	W	4	c	53	75	8	9	-	-	7-8	7-8	1500
18	Malin Head	84	1006.2	-4	NW	5	roro	52	92	6	6	-	-	9+	9+	1500
	Aldergrove	268	1007.5	-10	S	3	c	55	85	7	-	2	-	10	10	4000
19	Birr Castle	173	1009.3	-6	SSW	1	ir	54	97	7	6	1	-	4-6	10	1500
20	Valentia Obsy.	30	1010.9	+2	WNW	4	c	55	75	7	5	2	-	4-6	9+	1500
	Roches Point	22	1009.8	-18	WSW	3	ir	57	92	7	6	2	-	7-8	9+	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1011.7	0	SW	2	bc	59	75	7	5	4	2	1	4-6	4000	1	*
Croydon	1011.8	0	W'S	2	bc	58	75	8	5	3	3	2-3	4-6	4000	1	*
S. Farnborough	1011.8	-2	W	2	bc	58	75	8	5	3	4	Tr	4-6	4000	0	*
Boscombe Down	1011.8	-6	W'S	3	bc	58	75	8	5	7	5	Tr	2-3	4000	0	*
Calshot (Sthmtn.)	1012.3	-2	W'S	2	c	61	75	8	5	3	-	4-6	9	4000	0	1
Lympne	1012.8	-6	W'N	2	c	56	97	6	5	3	-	4-6	9+	4000	0	§2
Manston	1011.2	-4	WSW	3	c	61	75	7	9	5	-	4-6	7-8	5700	0	*
Shoeburyness	1011.8	+2	SW'W	3	c	60	85	6	-	3	3	0	7-8	-	0	*
Felixstowe	1011.0	-2	W	4	z0	61	85	6	-	3	6	0	7-8	-	0	2
Gorleston	1010.7	0	WSW	3	bc	63	75	7	-	4	-	0	2-3	-	0	1
Mildenhall	1010.5	+4	SW'W	3	z0	57	92	6	5	-	-	9+	9+	800	0	*
Cranwell	1009.6	-2	W	3	c	58	75	8	5	-	1	7-8	7-8	2500	1	*
Birmingham	1010.9	-4	WSW	2	bc	57	75	8	-	-	6	0	2-3	-	0	*
Upper Heyford	1011.6	+2	WSW	2	bc	58	75	7	1	4	9	2-3	2-3	2500	0	*
Ross-on-Wye	1010.9	-8	SW	3	bc	58	75	7	1	-	2	1	2-3	2500	0	*
Hartland Point	1010.2	-4	WSW	4	r°	56	85	8	8	2	-	4-6	9	2500	1	3
Bristol	1011.5	-6	SSW	3	c	59	75	8	5	3	6	2-3	7-8	2500	0	*
Portland Bill	1012.1	-2	SW	2	c	57	85	8	5	4	-	4-6	10	4000	0	2
Plymouth	1011.9	-6	SW'W	3	r	60	75	7	7	3	6	4-6	7-8	2500	0	1
The Lizard	1012.2	-10	SSW	4	id0	56	92	7	5	-	-	10	10	1500	1	2
Scilly (St. Mary's)	1010.7	-14	SW'S	4	id0	56	97	6	8	2	-	7-8	9+	1500	1	2
Guernsey	1013.1	-6	W'S	2	bc	60	85	7	-	7	8	0	2-3	-	0	2
Pembroke	1008.6	-10	SW'S	2	roro	55	97	6	5	-	-	10	10	800	1	1
Holyhead	1008.7	-2	SSW	3	roro	54	97	7	6	-	-	10	10	450	1	2
Chester (Sealand)	1008.2	-10	SE'S	3	c	57	75	7	5	7	7	2-3	9	4000	1	*
Manchester	1009.7	-4	SW	3	c	58	75	7	1	5	-	2-3	7-8	2500	1	*
Spurn Head	1008.8	0	W'S	3	c	62	85	5	2	-	2	4-6	7-8	800	0	2
Catterick																*
Tynemouth	1009.1	-2	NE	1	c	56	75	6	8	3	-	4-6	7-8	2500	0	1
St. Abbs Head	1006.0	-6	WSW	5	bc	58	65	8	4	4	-	2-3	4-6	2500	0	3
Leuchars	1005.5	-4	WSW	3	c	58	75	8	5	3	-	7-8	10	1500	0	*
Renfrew (Abbots I.)	1006.9	0	W	2	c/d	54	92	8	5	2	-	9	10	2500	1	*
Eskdalemuir	1007.6	-6	SSW	4	ir0	53	85	6	5	-	-	10	10	800	0	*
Point of Ayre	1008.1	0	W'S	2	c/r°	57	92	8	8	7	-	4-6	10	2500	0	1
Tiree	1005.3	+8	SW	4	c	55	75	8	2	3	8	2-3	7-8	2500	0	3
Stornoway	1004.3	+8	S	4	c	53	85	8	5	7	-	4-6	9+	2500	1	2
Dalwhinnie	1006.2	-4	SW	3	ir	51	97	6	5	1	-	7-8	10	1500	1	*
Aberdeen	1006.7	-4	SW'S	2	bc	59	65	7	5	7	-	4-6	4-6	4000	0	1
Wick	1004.2	-2	S	2	c	54	92	8	5	7	8	4-6	9+	2500	1	1
Lerwick	1006.8	-6	SSE	5	c	53	92	7	5	7	-	7-8	9+	800	0	*
Blacksod Point	1007.8	+2	W	4	c	56	85	8	3	-	-	7-8	7-8	2500	0	4
Malin Head	1007.3	+8	NW	4	c/pr	54	75	7	9	-	4	4-6	7-8	4000	0	2
Aldergrove	1008.1	+12	W'S	2	c	54	85	8	5	7	-	1	9+	1500	1	*
Birr Castle	1009.9	+4	WSW	1	c	53	85	8	5	-	-	7-8	7-8	2500	1	
Valentia Obsy.	1011.5	+6	W'S	4	c	56	75	8	8	-	-	7-8	7-8	2500	1	3
Roches Point	1010.6	+16	NW	4	bc	54	85	8	5	3	-	1	4-6	2500	1	2

PAST 24 HOURS

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 11th Hrs. (36)
London (Kew)	75	56	48	-	-	10.7
Croydon	75	53	45	-	-	11.2
S. Farnborough	77	51	45	-	-	12.2
Boscombe Down	75	50	44	-	-	11.8
Calshot (Sthmtn.)			51	-	-	13.5
Lympne	74	51	43	-		10.6
Manston	80	51	47	-	-	14.6
Shoeburyness	80	55	45	-	-	12.3
Felixstowe	77	56	51	-	-	11.6
Gorleston	72	55	54	-	-	10.3
Mildenhall	79	54	48	-	0.4	10.7
Cranwell	79	55	50	-	0.5	11.1
Birmingham	75	52	46	*	-	12.3
Upper Heyford	75	50	45	-	-	*
Ross-on-Wye	74	51	43	2	-	7.0
Hartland Point	65	53	52	-	0.2	10.3
Bristol	75	51	42	-	-	10.8
Portland Bill	61	55	*	-	-	*
Plymouth	67	51	46	-	-	10.0
The Lizard	65	54	*	-	Tr	13.3
Scilly (St. Mary's)	68	55	*	0.3	1	7.2
Guernsey	70	55	50		-	9.8
Pembroke	65	54	*	-	0.2	4.0
Holyhead	64	53	50	-	0.3	*
Chester (Sealand)	71	53	47	3	-	5.4
Manchester	75	53	49	Tr	1	3.5
Spurn Head	70	51	*	-	-	10.9
Catterick	75			-		
Tynemouth	69	55	52	-	-	*
St. Abbs Head	62	51	*	-	-	*
Leuchars	71	52	40	-	-	13.9
Renfrew (Abbots I.)	67	54	53	-	0.4	7.8
Eskdalemuir	66	42	35	-	Tr	12.9
Point of Ayre	*	53	*	-	Tr	12.5
Tiree	63	51	*	0.5	3	0.0
Stornoway	60	50	*	Tr	1	1.2
Dalwhinnie	64	51	47	-	1	6.6
Aberdeen	63	52	45	-	-	10.9
Wick	59	51	*	-	Tr	*
Lerwick	58	52	*	-	-	11.2
Blacksod Point	61	50	*	1	4	*
Malin Head	61	48	*	Tr	0.6	1.4
Aldergrove	66	52	52	-	3	8.4
Birr Castle	60	50	49	-	3	6.2
Valentia Obsy.	61	53	48	0.4	6	3.9
Roches Point	65	54	*	-	2	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	bcm, cz0	zbcy	bcbybcw	75	56	48	-	-	10.7	*	*	8
Croydon	217	cm0bz0	bcy by	bybwcbc	75	53	45	-	-	11.2	*	*	8
Greenwich (Royal Observatory)	149	bbc	bcby	bcb	79	53	45	-	-	12.2	48	57	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*				*
Westminster (St. James' Park)	27	*	*	*	76	56	52	-		11.6	51	62	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	76	55	53	-	-	*	57	64	*
Camden Square	110	b	bc	*	78	55	52	-	-	*	*	59	*
Kensington	80	bc	bc	*	78	55	51	-	-	*	43	63	*
Hampstead Observatory	450	bc	bc	bc	76	53	50	-	-	*	*	78	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
0.1	7-9h, 11h	<0.1	rest of period

KEW OBSERVATORY.

Max.	Time.	Min.	Time.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 11th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 12th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

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

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.

The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.

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

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

COLUMNS 34, 35.

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 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.

SECRET

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 13th June 1940.

No. 28693

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1010.9	-4	WSW	3	c	67	45	8	7	3	-	7-8	9+	4000
	Croydon	1010.8	-2	WSW	3	c	67	45	8	7	-	-	4-6	9+	4000
	S. Farnborough	1010.3	-6	SW'W	3	c	66	55	8	8	3	-	9	9+	2500
	Boscombe Down	1010.0	-10	SW'S	3	c	68	45	8	8	-	4	4-6	9	4000
	Calshot (Soton.)														
	Lympne ...	1011.8	-4	SW'S	3	c	64	75	8	2	3	-	2-3	9+	2500
	Manston ...	1010.6	-6	SE	2	c	65	75		7	8	7	4-6	10	2500
2	Shoeburyness ...	1010.7	-8	S'W	2	c	66	65	8	5	-	-	10	10	4000
	Felixstowe ...	1009.8	-4	S'W	3	c	67	75	7	1	7	-	7-8	9+	4000
	Gorleston ...	1009.9	0	W'N	2	c	67	75	6	5	-	-	10	10	2500
	Mildenhall ...	1009.5	-2	WSW	3	c	71	55	8	8	3	-	9	9+	2500
	Cranwell ...	1008.6	-6	SW	3	c	69	35	7	7	7	6	4-6	7-8	2500
3	Birmingham	1009.1	-6	SW	2	c	68	65	8	8	9	-	4-6	7-8	2500
	Upper Heyford	1009.7	-8	SW	2	c	69	45	8	7	7	9	4-6	9	2500
4	Ross-on-Wye ...	1009.7	-4	SW'S	3	bc	66	55	8	1	5	-	1	4-6	4000
5	Hartland Point	1010.2	+2	NW	3	c	56	97	8	8	2	-	7-8	9+	1500
	Bristol	1010.1	-6	SW	3	c	68	55	8	7	7	6	4-6	9	2500
	Portland Bill ...	1011.6	-10	SSW	3	c	59	92	8	5	4	-	4-6	10	4000
	Plymouth ...	1010.5	-10	SW	4	id	59	97	6	6	2	-	7-8	10	450
	The Lizard ...	1011.3	-2	WNW	4	c	60	92	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1012.0	+6	NW'N	4	bc	63	65	8	8	6	3	2-3	2-3	1500
	Guernsey ...	1012.0	-4	W'S	3	c	65	65	9	1	7	8	2-3	7-8	2500
6	Pembroke ...	1010.4	+4	*	4	c	58	75	7	8	6	1	4-6	7-8	2500
7	Holyhead ...	1009.3	+4	NNW	2	r$_0$r$_0$	57	85	8	5	-	-	10	10	2500
	Chester (Sealand)	1009.3	+2	NNW	2	id	60	85	6	6	2	-	4-6	9+	1500
8	Manchester ...	1009.3	+2	SW	2	r$_0$r$_0$	61	75	7	8	1	-	7-8	10	2500
10	Spurn Head ...	1008.1	-2	E'S	3	c	68	75	6	2	1	2	4-6	7-8	800
	Catterick ...	1007.7	-2	SW	3	c	71	45	8	8	9	6	2-3	7-8	4000
	Tynemouth ...	1008.7	-2	S'E	2	c	62	75	6	2	3	1	4-6	7-8	2500
11	St. Abbs Head	1007.5	0	WNW	2	c	60	75	8	8	2	-	7-8	9	2500
	Leuchars ...	1006.7	-2	SSW	3	c	64	65	8	8	9	-	4-6	9	2500
12	Renfrew (Abbots I.)	1007.8	+2	W	3	c	63	45	9	7	-	6	4-6	7-8	4000
	Eskdalemuir ...	1007.3	+2	SW'W	4	c	61	65	8	8	-	1	7-8	9+	1500
	Point of Ayre ...	1009.1	+2	NW'W	3	c	62	75	8	5	3	3	4-6	7-8	4000
13A	Tiree	1006.5	+4	SW	4	bc	59	75	8	8	:	-	2-3	2-3	2500
13B	Stornoway ...	1005.0	+2	SSW	3	c	57	75	8	8	7	-	7-8	9+	2500
15	Dalwhinnie ...	1006.2	0	S	3	c	59	55	8	4	6	1	4-6	9	4000
	Aberdeen ...	1006.9	+4	S	3	pr	60	85	7	2	7	-	7-8	9	1500
	Wick	1005.7	+6	SE	2	c	55	85	8	5	7	8	4-6	9+	1500
16	Lerwick... ...	1006.2	-4	S'E	4	c	54	92	7	8	7	-	4-6	9+	800
17	Blacksod Point...	1009.9	+8	W	4	bc	60	65	8	4	-	-	4-6	4-6	2500
	Malin Head ...	1007.9	+6	SW	3	bc	60	65	8	4	-	-	2-3	2-3	5700
	Aldergrove ...	1008.6	0	WSW	2	bc	64	55	9	2	-	1	4-6	4-6	4000
19	Birr Castle ...	1010.0	-2	W	1	c	68	55	8	8	8	-	7-8	7-8	1500
20	Valentia Obsy. †	1013.4	+10	W'N	4	c/pr	55	85	9	8	7	-	4-6	9	1500
	Roches Point ...	1011.6	+2	NW	3	pr	58	85	8	3	-	3	4-6	7-8	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1009.3	-6	SW	3	bc	67	55	8	5	-	1	4-6	4-6	2500	1	*
Croydon	1009.4	-6	SW'S	3	c	65	65	8	4	3	5	4-6	7-8	4000	0	*
S. Farnborough	1009.3	-4	SW'S	4	c	65	55	8	8	3	6	2-3	7-8	4000	0	*
Boscombe Down	1009.8	+4	W'S	4	c	62	65	8	5	7	-	7-8	9+	4000	0	*
Calshot (Soton.)	1010.5	-6	SW'W	4	c	62	85	8	1	3	8	1	9	4000	0	2
Lympne	1010.6	-2	SW'W	3	c/pr	63	65	8	2	7	2	1	9	4000	0	§ 3
Manston	1009.0	-6	WSW	3	c	66	65	7	5	6	-	2-3	9+	2500	0	*
Shoeburyness	1009.4	-6	SSW	2	c	67	65	8	8	7	-	9+	9+	5700	0	*
Felixstowe	1008.6	-8	S	3	c	64	75	8	7	7	-	4-6	9+	2500	0	1
Gorleston	1009.0	+2	W	2	c	69	65	7	5	-	-	9+	9+	2500	0	2
Mildenhall	1008.3	-8	W'S	3	c	70	45	8	7	3	9	4-6	7-8	4000	0	*
Cranwell	1007.7	-4	SW	2	c	69	45	7	5	-	-	9	9	4000	0	*
Birmingham	1008.9	0	WSW	2	ir	62	85	8	5	7	-	7-8	9+	1500	0	*
Upper Heyford	1008.8	-2	NW'W	3	c	65	55	8	7	7	9	4-6	9	2500	0	*
Ross-on-Wye	1009.4	-4	WSW	2	c	62	75	7	6	2	-	1	10	2500	0	*
Hartland Point	1011.1	+4	NW	3	bcjp	57	85	8	2	4	3	2-3	4-6	2500	0	3
Bristol	1009.8	-2	SSW	2	c	61	85	8	5	7	-	4-6	9	1500	0	*
Portland Bill	1010.2	-10	SW	2	o	56	92	7	5	-	-	10	10	1500	1	2
Plymouth	1011.1	+10	NNW	4	bc	61	65	8	8	4	-	2-3	2-3	2500	0	2
The Lizard	1012.2	+8	NW'N	4	bc	60	65	8	8	-	-	4-6	4-6	2500	1	3
Scilly (St. Mary's)	1012.8	+6	NW'W	4	bc	62	75	8	8	6	-	2-3	4-6	2500	1	2
Guernsey	1010.7	-4	W'S	3	c	61	85	8	5	2	-	7-8	9+	1500	0	3
Pembroke	1010.9	+2	W'N	1	bc	57	75	8	2	4	-	2-3	4-6	2500	1	2
Holyhead	1009.8	-2	-	0	b	58	75	9	5	3	1	Tr	1	2500	0	2
Chester (Sealand)	1009.3	+8	WNW	3	r$_0$r$_0$	56	85	7	5	3	-	9	10	800	1	*
Manchester	1008.9	-2	NW	2	c	60	85	7	8	-	-	7-8	10	2500	1	*
Spurn Head	1007.1	-2	S'E	2	c	67	75	6	2	4	5	4-6	7-8	800	0	1
Catterick	1008.1	+2	W'N	2	c/r	61	75	9	2	2	-	1	10	4000	1	*
Tynemouth	1008.5	+4	W	2	pr	61	85	6	8	-	-	9+	9+	2500	1	1
St. Abbs Head	1007.8	+2	-	0	c	58	75	7	8	6	-	7-8	9+	1500	1	1
Leuchars	1006.8	-2	WSW	2	c	66	45	8	7	9	1	2-3	7-8	4000	0	*
Renfrew (Abbots I.)	1008.4	+4	WSW	3	c	62	45	9	2	3	6	1	7-8	4000	0	*
Eskdalemuir	1008.0	+2	WNW	3	c	59	55	8	5	3	-	4-6	9+	2500	0	*
Point of Ayre	1009.2	0	NW'W	3	bc	62	75	8	4	3	-	Tr	2-3	4000	0	1
Tiree	1007.5	+2	SW	3	c/pr	56	85	8	8	:	-	7-8	7-8	1500	1	3
Stornoway	1006.1	+4	SSW	4	bc	58	65	8	8	7	-	4-6	4-6	2500	1	2
Dalwhinnie	1008.0	+4	SW	3	c	58	55	8	4	6	5	2-3	9+	4000	0	*
Aberdeen	1006.7	+2	SSW	3	c	59	75	7	8	9	-	1	7-8	4000	0	1
Wick	1006.3	+6	SE	2	c	58	92	8	8	7	2	4-6	7-8	1500	0	1
Lerwick	1007.7	+16	SW	3	c/pr	53	85	8	8	7	-	7-8	9+	800	0	*
Blacksod Point	1011.0	+4	W	4	c	55	85	8	4	-	9	4-6	7-8	2500	0	3
Malin Head	1008.7	+8	W	4	bc	57	65	8	4	-	-	4-6	4-6	5700	0	2
Aldergrove	1009.1	+6	NE	2	c/pr	60	75	9	8	4	1	7-8	7-8	2500	0	*
Birr Castle	1010.8	+6	W'N	2	c	64	55	8	8	8	1	7-8	7-8	1500	0	*
Valentia Obsy. †	1014.1	+6	WNW	4	c	58	65	8	8	5	-	7-8	9+	2500	0	3
Roches Point	1012.0	+2	NW	4	pr	60	75	9	8	-	-	7-8	7-8	1500	0	2

PAST 24 HOURS.

Stations	Weather 7h.–18h. 12th (37)	Weather 13h.–18h. 12th (38)	Weather 18h. 12th to 1h. 13th (39)	Weather 1h.–7h. 13th (40)
London (Kew)	bccy	cybcy	bcyc	cm$_0$
Croydon	bccy	cyvc	bccbc	bccm$_0$
S. Farnborough	bccy	cy	cybcw	bcwbm$_0$c
Boscombe Down	bccy	c	cbc	bc
Calshot (Soton.)		c	cpr$_0$bc	ocm$_0$c
Lympne	cm$_0$c	cpr$_0$	cbcc	bcc
Manston	bcc	cpr$_0$c	pr$_0$cbc	bccm$_0$
Shoeburyness	bcm$_0$cm$_0$c	cyc	c	cbcm$_0$cm$_0$
Felixstowe	bcm$_0$cz$_0$c	c	cir$_0$bcm$_0$	bcm$_0$cm$_0$
Gorleston	bcc	cz$_0$c	cor$_0$r$_0$	dr$_0$ir$_0$
Mildenhall	bcm$_0$ccy	cy	cbcbcm$_0$	bcm$_0$cm$_0$
Cranwell	cbccy	cybcc	c,bcm$_0$z$_0$	bcm$_0$bc
Birmingham	bc	bcc	cir$_0$	cbc
Upper Heyford	c	c	c	cm$_0$c
Ross-on-Wye	bccy	cpc	crc	cb
Hartland Point	cr$_0$r$_0$	cbc	bc	bc
Bristol	cbccy	cycir$_0$	ciRid$_0$	bcm$_0$cbc
Portland Bill	c	cid	cbc	cbc
Plymouth	cd$_0$DDm$_0$	ddm$_0$pr$_0$	pcbw	bwbcwb
The Lizard	rpr$_0$c	cbc	bc	bcc
Scilly (St. Mary's)	cirbc	bc	bc	cp$_0$bc
Guernsey	bcc	cpr$_0$	cpr$_0$bc	bc
Pembroke	irc	cbcv	bcc	bc
Holyhead	drr$_0$r$_0$c	r$_0$r$_0$bcb	bw	bwc
Chester (Sealand)	cr$_0$md$_0$	d$_0$r$_0$r$_0$m	r$_0$r$_0$cbcbw	bz$_0$wbc
Manchester	ccm$_0$r$_0$r$_0$	m$_0$r$_0$r$_0$ir$_0$	cpr$_0$bcm$_0$	bcm$_0$bm$_0$
Spurn Head	c	c	c	cq
Catterick	bccy	ccir$_0$c	cir$_0$pr$_0$c	cbcb
Tynemouth	c	cp	fcpc	cbc
St. Abbs Head	bcc	rrc	cbc	cbc
Leuchars	cir$_0$circ	cybcy	bcycb	b
Renfrew (Abbots I.)	cbcyc	bccy	cbybcc	bc
Eskdalemuir	d$_0$id$_0$c	ccy	cybcv	bcwbc
Point of Ayre	rrc	cbc	bcc	b
Tiree	bcpr$_0$	bccpr	cpr	prbc
Stornoway	cpr	cbcpr$_0$	bccPR	cPR
Dalwhinnie	cir	cir$_0$		c
Aberdeen	bcpr$_0$	cpr$_0$c	bc	bcb
Wick	c	c	cpr$_0$c	cbcc
Lerwick	c	cpr$_0$	cpr$_0$r$_0$	c
Blacksod Point	cbc	c	c	c
Malin Head	bc	bc	cpr$_0$cbc	cpr$_0$c
Aldergrove	cpr$_0$bcy	bcycpr$_0$	pr$_0$cbc	bcc
Birr Castle	cy	cy	c	bbcc
Valentia Obsy. †	cbcpr$_0$c	cpr$_0$c	cpr$_0$c	cpr$_0$c
Roches Point	pr$_0$pr	cpr$_0$	bc	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_0$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_0$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_0$, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain ; —, has decreased ; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

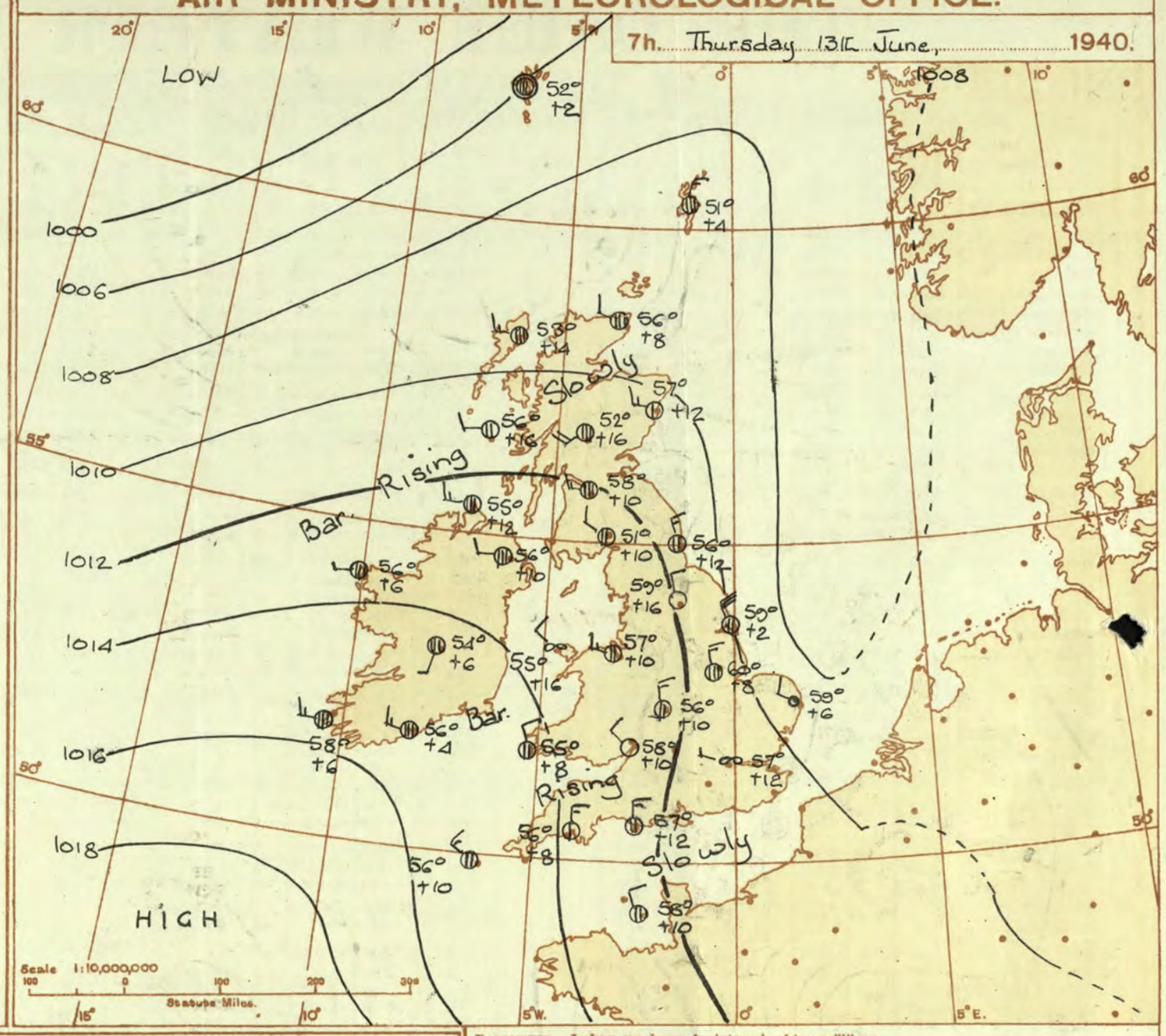
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 13th June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 13th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light or moderate west to northwest wind; fair apart from a few scattered showers; average temperature.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland	Light to moderate west wind, backing southwest later; cloudy, local showers at first. occasional rain later; rather cool.
16 Orkneys and Shetlands	Light variable to westerly wind; mainly fair; local fog; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light or moderate west to northwest wind, backing southwest later; fair to cloudy at first, occasional rain later; rather cool.

GENERAL INFERENCE.

A feeble ridge of high pressure centred over the Irish Sea is moving very slowly eastwards while a trough of low pressure is advancing from the Atlantic. Weather will be mainly fair except for a few scattered showers, but more general rain will occur in western districts later. Temperatures will be about average for the season.

FURTHER OUTLOOK.

None issued.

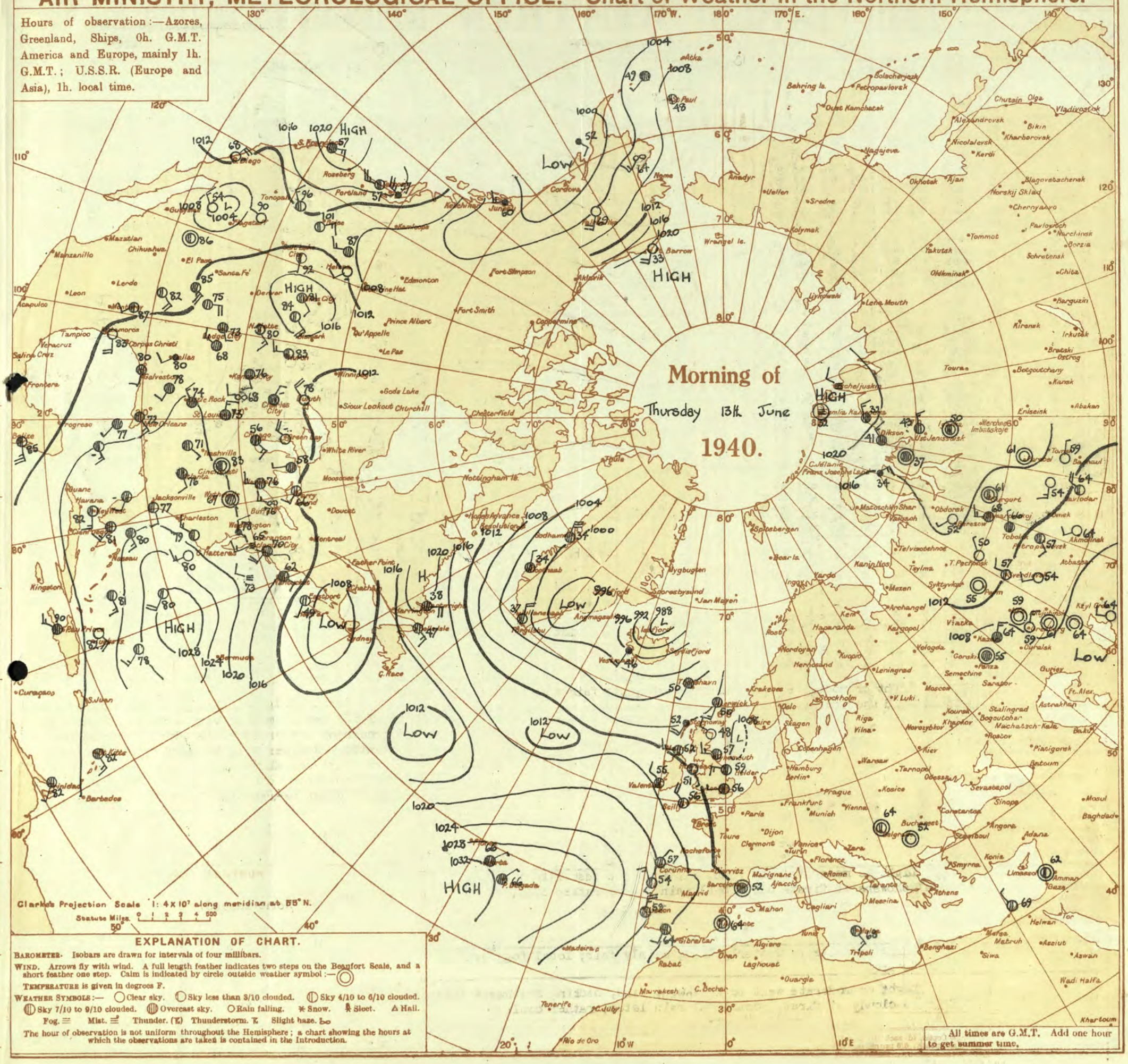
Forecasts issued at 1030

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 13th June 1940.
No. 28693

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

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	+2	W	1	bc	56	86	7	5	-	2	2-3	4-6	4000
	S. Farnborough	226	1010.2	-2	-	0	bc	58	92	7	-	3	-	0	2-3	-
	Boscombe Down	417	1010.7	-2	W'N	2	bc	54	92	7	-	7	-	0	2-3	-
	Calshot (Sthmtn.)	8	1010.4	-2	W	2	0	57	97	7	5	-	-	10	10	2500
	Lympne ...	346	1011.1	-2	W	2	bc	52	97	7	-	1	-	0	4-6	-
	Manston ...	154	1009.2	-6	W	2	bc	56	85	7	5	-	-	4-6	4-6	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1008.6	-6	W	2	2	61	75	6	5	7	-	2-3	7-8	4000
	Gorleston ...	5	1008.8	-2	S	2	2	60	92	6	6	-	-	10	10	2500
	Mildenhall ...	19	1009.0	+2	WSW	2	2	54	85	6	5	-	-	2-3	2-3	5700
	Cranwell ...	240	1009.2	-2	NNW	2	2	57	75	6	5	7	-	1	4-6	5700
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1010.1	0	WNW	1	c	56	92	7	5	-	-	0	0	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011.0	0	NNW	3	bc	57	92	8	1	4	-	Tr	2-3	4000
	Bristol ...	209	1011.7	+8	WNW	2	2	49	92	6	5	-	-	2-3	2-3	2500
	Portland Bill ...	32	1011.1	+2	NW	4	bc	56	92	8	5	-	-	2-3	2-3	4000
	Plymouth ...	82	1012.8	0	E'N	2	b	51	92	8	4	-	-	1	1	4000
	The Lizard ...	240	1013.6	-2	W	2	bc	56	92	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1014.3	+2	NW	4	bc	56	85	8	8	4	-	2-3	4-6	2500
	Guernsey ...	175	1012.1	+4	NW	1	bc	54	92	8	-	1	-	0	2-3	-
6	Pembroke ...	142	1012.8	+2	N'W	3	c	56	85	8	8	-	-	7-8	7-8	1500
7	Holyhead ...	26	1011.1	+2	SE'S	1	bc	51	92	8	5	4	-	2-3	2-3	4000
	Chester (Sealand)	16	1011.2	+2	NW'W	2	b	50	85	7	5	-	-	1	1	4000
8	Manchester ...	70	1010.9	+4	W'S	1	2	48	85	6	4	6	-	2-3	2-3	4000
10	Spurn Head ...	29	1008.8	0	WNW	3	c	58	85	6	5	-	-	7-8	7-8	800
	Catterick ...	175	1009.6	+2	NW'W	1	c/pr	57	75	7	5	3	-	7-8	9+	4000
	Tynemouth ...	108	1009.4	0	W	3	c	57	85	6	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	1008.9	+4	WNW	3	bc	54	75	8	5	5	-	4-6	4-6	2500
	Leuchars ...	36	1009.1	+8	W	1	bc	50	85	8	-	4	1	0	2-3	-
12	Renfrew (Abbots I.)	19	1010.3	+4	W'S	2	bc	52	85	7	8	3	-	2-3	2-3	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1010.8	+6	NNW	3	c	58	97	8	5	-	-	9	9	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1007.3	+2	SSW	4	pr	52	92	8	8	6	1	4-6	9	1500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1007.8	+4	SE	2	c	52	97	7	5	7	-	4-6	10	800
16	Lerwick ...	156	1008.9	+2	SSW	3	c/r	50	92	8	8	7	-	4-6	9	1500
17	Blacksod Point	18	1012.2	+6	W'N	4	c	53	85	8	3	-	-	9	9	2500
18	Malin Head ...	84	1011.0	+8	W	3	c/pr	52	85	8	9	-	-	7-8	7-8	5700
	Aldergrove ...	268	1011.3	+6	W'S	3	c	53	85	8	7	-	-	9+	9+	5700
19	Birr Castle ...	173	1013.2	+6	WNW	1	c	51	92	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	30	1015.0	+2	WNW	2	c	55	75	8	5	-	-	10	10	2500
	Roches Point	22	1014.6	+6	NW	3	bc	54	85	8	5	-	-	2-3	2-3	2500

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

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)	1011.5	+8	NW'N	2	2	57	85	5	5	-	-	10	10	1500	1	*
	Croydon ...	1011.2	+12	WNW	1	2	57	92	6	5	-	-	10	10	800	0	*
	S. Farnborough	1011.5	+14	NW'W	2	2	57	85	6	5	3	-	4-6	9	1500	0	*
	Boscombe Down	1012.1	+8	N'W	4	bc	57	75	8	5	3	1	2-3	4-6	4000	0	*
	Calshot (Sthmtn.)	1011.7	+10	NNW	4	2	58	85	6	7	3	4	4-6	7-8	4000	0	1
	Lympne ...	1011.6	+6	NW'N	2	c	58	97	7	5	-	-	10	10	5700	0	§2
	Manston ...	1010.3	+14	NW'W	3	2	58	85	6	5	7	-	4-6	10	7200	0	*
2	Shoeburyness ...	1010.7	+10	NW	3	c	58	85	6	5	-	-	10	10	5700	0	*
	Felixstowe ...	1009.9	+14	NW	3	2	59	85	5	5	7	1	1	10	5700	0	1
	Gorleston ...	1009.8	+6	WNW	2	2	59	85	6	6	-	-	10	10	2500	1	1
	Mildenhall ...	1010.0	+8	WNW	3	c	56	85	6	-	7	-	0	9	-	0	*
	Cranwell ...	1010.8	+8	NNW	3	c	60	65	7	5	7	-	2-3	7-8	5700	0	*
3	Birmingham ...	1012.4	+10	NNW	3	bc	56	75	6	-	3	-	0	4-6	-	0	*
	Upper Heyford	1011.6	+8	NW	3	c	56	75	7	5	7	-	9	9+	4000	0	*
4	Ross-on-Wye	1012.7	+10	NW	2	b	58	65	9	-	4	1	0	Tr	-	1	*
5	Hartland Point	1014.1	+16	NNW	3	bq/p	57	85	8	7	4	-	2-3	4-6	2500	0	3
	Bristol ...	1013.1	+6	N	2	b	56	75	8	-	3	-	0	1	-	1	*
	Portland Bill ...	1013.0	+12	N	3	bq/p	57	85	8	5	-	-	2-3	2-3	4000	1	3
	Plymouth ...	1013.7	+8	N	3	b	56	85	7	1	-	-	1	1	2500	0	1
	The Lizard ...	1014.9	+8	NNW	3	c	59	85	8	8	6	-	7-8	7-8	2500	0	2
	Scilly (St. Mary's)	1015.8	+10	NW	3	bc	56	85	8	8	4	-	2-3	4-6	1500	1	2
	Guernsey ...	1013.1	+10	NNW	2	bc	58	75	9	-	1	8	0	2-3	-	0	3
6	Pembroke ...	1014.4	+8	NNW	2	bc	55	85	8	7	4	-	2-3	4-6	2500	1	2
7	Holyhead ...	1013.2	+16	NW'W	2	c	55	85	9	7	-	-	9	9	2500	0	2
	Chester (Sealand)	1012.6	+10	WNW	3	bc	57	75	7	2	-	-	2-3	2-3	4000	1	*
8	Manchester ...	1012.4	+10	NW'W	2	2	57	85	6	1	-	-	7-8	7-8	4000	0	*
10	Spurn Head ...	1009.4	+2	NW'N	6	bq	59	85	6	-	1	5	0	4-6	-	0	3
	Catterick ...	1012.0	+16	NNW	2	b	59	65	8	5	3	1	Tr	1	4000	0	*
	Tynemouth ...	1011.2	+12	NNW	3	bc	56	75	7	-	3	1	2-3	4-6	2500	0	1
11	St. Abbs Head	1011.0	+16	WNW	3	bc	54	75	8	1	4	3	1	2-3	2500	0	1
	Leuchars ...	1011.0	+10	W	2	b	58	65	9	7	-	-	1	1	4000	0	*
12	Renfrew (Abbots I.)	1012.1	+10	W	3	c	58	75	9	8	5	-	4-6	7-8	1500	0	*
	Eskdalemuir ...	1012.1	+10	NW	2	bc	51	85	8	7	-	-	4-6	4-6	1500	0	*
	Point of Ayre ...	1013.3	+12	NNW	3	b	56	85	8	2	-	-	1	1	1500	0	2
13A	Tiree	1011.1	+16	WSW	2	bc	56	75	8	7	-	-	4-6	4-6	2500	0	2
13B	Stornoway ...	1008.8	+14	W	3	c	53	85	8	8	7	-	4-6	9+	1500	1	2
15	Dalwhirnie ...	1011.5	+16	SW	4	c	52	75	8	4	6	-	4-6	9+	4000	0	*
	Aberdeen ...	1010.3	+12	WNW	3	b	57	65	8	1	3	-	Tr	1	4000	0	1
	Wick ...	1008.7	+8	WNW	2	c	56	76	8	5	6	-	4-6	9	1500	0	1
16	Lerwick ...	1009.1	+4	NNE	3	c	51	92	8	8	7	-	7-8	9	1500	1	*
17	Blacksod Point	1013.2	+6	WSW	1	c	56	85	8	-	7	-	0	9+	-	0	3
18	Malin Head ...	1012.4	+12	W	3	c	55	85	8	2	6	-	4-6	7-8	5700	0	2
	Aldergrove ...	1012.9	+10	W	2	c	56	85	9	8	-	-	7-8	7-8	1500	0	*
19	Birr Castle ...	1014.5	+6	SSW	1	c	54	85	8	5	-	-	9+	9+	2500	0	*
20	Valentia Obsy.	1015.6	+6	W	3	c	58	85	7	2	7	1	1	9+	1500	0	3
	Roches Point	1015.3	+4	WNW	3	c	56	85	8	5	-	-	9	9	2500	0	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 12th Hrs. (36)
London (Kew)	68	56	53	2	-	5.8
Croydon ...	69	53	46	-	-	5.8
S. Farnborough	68	49	44	-	-	6.1
Boscombe Down	69	49	46	-	-	9.4
Calshot (Sthmtn.)	68	55	51	-	-	7.8
Lympne ...	65	51	47	Tr	-	0.8
Manston ...	68	54	53	Tr	Tr	3.9
Shoeburyness ...	69	55	48	-	-	2.9
Felixstowe ...	70	58	58	-	Tr	5.4
Gorleston ...	70	58	57	-	1	9.1
Mildenhall ...	72	51	47	-	-	6.8
Cranwell ...	73	53	51	-	-	7.3
Birmingham ...	69	52	50	Tr	0.5	8.1
Upper Heyford	71	54	53	-	-	*
Ross-on-Wye	67	52	47	Tr	1	6.7
Hartland Point	58	54	52	1	-	3.5
Bristol ...	69	48	41	1	4	8.5
Portland Bill ...	60	55	*	1	-	*
Plymouth ...	63	48	39	2	-	4.8
The Lizard ...	61	51	*	1	-	6.5
Scilly (St. Mary's)	64	54	*	4	3	8.6
Guernsey ...	66	53	48	Tr	Tr	8.8
Pembroke ...	60	52	*	2	-	6.0
Holyhead ...	59	51	45	3	-	5.0
Chester (Sealand)	63	49	39	2	Tr	3.0
Manchester ...	65	45	38	0.5	0.1	4.0
Spurn Head ...	(67)	56	*	-	-	7.5
Catterick ...	71	49	44	0.1	Tr	7.2
Tynemouth ...	63	50	46	0.3	1	*
St. Abbs Head	65	52	*	2	-	*
Leuchars ...	67	47	40	1	-	1.6
Renfrew (Abbots I.)	67	50	46	-	-	7.7
Eskdalemuir ...	62	35	28	0.2	-	2.8
Point of Ayre ...	*	49	*	2	-	4.6
Tiree	60	51	*	0.2	-	10.2
Stornoway ...	60	50	*	1	2	4.2
Dalwhirnie ...	*	44	36	0.4	-	5.6
Aberdeen ...	63	44	36	Tr	-	4.1
Wick ...	58	46	*	-	Tr	*
Lerwick ...	59	50	*	Tr	0.2	0.8
Blacksod Point	61	49	*	-	Tr	*
Malin Head ...	61	49	*	-	1	11.1
Aldergrove ...	67	49	48	0.1	Tr	7.6
Birr Castle ...	66	47	44	-	-	9.2
Valentia Obsy.	60	55	49	0.4	0.3	8.9
Roches Point	63	52	*	0.6	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	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	bccy	cybcy	bcycm	68	56	53	-	-	5.8	•	•	
Croydon ...	217	bccy	cyrc	bccbc	69	53	46	-	-	5.8	•	•	6
Greenwich (Royal Observatory) ...	149	bcy	cy	cbcm	70	57	48	-	-	6.0	41	75	5
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	69	57	56	-	-	6.8	54	83	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	70	57	56	-	0.5		38	82	•
Camden Square ...	110	bc	c	•	71	57	54	-	2	•	•	77	•
Kensington ...	80	bcc	c	•	71	57	55	-	0.3		57		•
Hampstead Observatory ...	450	bc	bc	orbc	67	54	53	-	2		•	87	•

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

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
10.1	6-7h	0.1	rest of period 13th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 12th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 13th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.
Paris ...										
Brussels ...										
Berlin ...										
Zürich ...										
Rome ...										

Past 24 Hours.

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

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THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

DUPLICATE

BRITISH SECTION

Friday 14th. June, 1940.

No. 28694

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1012.9	+8	NW'N	2	c	66	65	7	8	7	-	4-6	9+	2500
	Croydon	1012.5	+8	NW'W	2	pr	63	75	7	9	2	-	4-6	10	4000
	S. Farnborough	1012.9	+10	NNW	3	c	65	55	8	8	7	-	4-6	10	4000
	Boscombe Down	1013.0	+2	N	4	bc	68	45	8	8	7	-	4-6	4-6	2500
	Calshot (Soton.)	1012.7	+4	NNW	2	c	68	65	8	8	7	-	7-8	9+	2500
	Lympne ...	1012.6	+4	NW	2	z₀	65	65	6	8	3	-	9	10	4000
	Manston ...	1011.9	+10	NNW	3	z₀	65	65	6	5	2	-	9+	10	1500
2	Shoeburyness ...	1012.1	+4	NNW	3	c	69	65	6	8	7	-	7-8	9+	2500
	Felixstowe ...	1011.8	+10	NW'N	3	ir₀	62	85	6	5	2	-	9	10	1500
	Gorleston ...	1011.3	+16	N'W	3	ir₀	59	92	6	6	-	-	10	10	1500
	Mildenhall ...	1012.5	+14	N'W	4	c	62	75	7	7	1	-	7-8	10	2500
	Cranwell ...	1012.3	+2	N	3	c	71	45	8	1	7	5	4-6	7-8	2500
3	Birmingham	1013.3	+4	NNW	3	bc	67	55	8	2	-	-	4-6	4-6	2500
	Upper Heyford	1012.9	+4	NW	3	c	67	55	8	8	7	-	4-6	9	4000
4	Ross-on-Wye ...	1013.7	+4	NW'N	3	bc	70	45	9	7	-	-	4-6	4-6	4000
5	Hartland Point	1015.9	+6	NNW	3	bc	58	85	9	2	-	3	2-3	2-3	2500
	Bristol	1013.8	+2	WNW	3	bc	65	55	8	8	-	-	2-3	4-6	4000
	Portland Bill ...	1014.0	+4	W	3	bc	61	86	8	1	-	-	4-6	4-6	4000
	Plymouth ...	1015.5	+6	NNW	4	bc	63	55	8	2	-	-	2-3	2-3	2500
	The Lizard ...	1016.5	+8	NW	4	bc	63	55	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1017.4	+8	WNW	2	c	63	65	8	8	7	-	4-6	10	2500
	Guernsey ...	1014.5	+8	NW	4	b	63	65	8	-	7	-	0	1	-
6	Pembroke ...	1015.8	+2	NW'N	4	bc	57	75	8	2	1	-	2-3	2-3	2500
7	Holyhead ...	1015.3	+6	NW'W	2	bc	59	85	9	8	4	-	2-3	2-3	2500
	Chester (Sealand)	1014.6	+6	WNW	4	bc	63	45	8	2	-	-	2-3	2-3	2500
8	Manchester ...	1013.8	+10	WNW	4	bc	68	45	9	1	-	-	2-3	2-3	4000
10	Spurn Head ...	1012.4	+10	N	5	c	63	75	7	2	4	7	2-3	7-8	1500
	Catterick ...	1012.2	+2	N	2	bc	69	45	9	2	-	-	4-6	4-6	4000
	Tynemouth ...	1013.2	+8	E	2	bc	60	75	8	2	-	-	4-6	4-6	2500
11	St. Abbs Head	1012.2	+6	NW	3	bc	61	75	8	2	4	-	2-3	4-6	2500
	Leuchars ...	1012.2	+8	WNW	3	bc	67	55	9	8	-	-	2-3	2-3	4000
12	Renfrew (Abbots L.)	1013.7	+8	W	3	c	64	55	9	8	-	-	9	9	2500
	Eskdalemuir ...	1012.7	+6	NW	3	c	62	45	8	7	-	-	7-8	7-8	2500
	Point of Ayre ...	1014.7	+4	NW'W	3	b	65	65	8	4	-	-	1	1	4000
13A	Tiree	1013.3	+6	SW	3	bc	61	65	8	1	3	-	2-3	4-6	2500
13B	Stornoway ...	1012.0	+10	WSW	3	c	57	65	8	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1012.7	+8	W	3	bc	62	45	8	4	6	-	1	2-3	4000
	Aberdeen ...	1012.2	+14	S	3	bc	63	45	8	8	-	-	4-6	4-6	2500
	Wick	1016.6	+12	NE	3	c	54	76	8	8	7	1	4-6	7-8	1500
16	Lerwick... ...	1010.0	+6	W'S	3	c	57	85	8	5	7	-	4-6	7-8	1500
17	Blacksod Point...	1014.8	+10	SW	2	c	62	75	7	-	4	-	0	9+	-
18	Malin Head ...	1014.1	+8	W	3	bc	60	65	8	4	-	-	2-3	2-3	5700
	Aldergrove ...	1014.0	+4	SW'W	2	bc	66	55	9	8	-	-	4-6	4-6	2500
19	Birr Castle ...	1015.2	+2	NW	2	c	64	65	8	8	-	-	9	9	1500
20	Valentia Obsy. †	1017.0	+6	W	3	bc	61	75	8	7	4	1	4-6	4-6	2500
	Roches Point ...	1016.2	+2	S'W	3	c	61	85	8	8	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 13th June — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 13th (37)	Weather 13h.–18h. 13th (38)	Weather 18h. 13th to 1h. 14th (39)	Weather 1h.–7h. 14th (40)
London (Kew)	1014.4	+12	S	2	c	64	75	7	8	7	1	4-6	9	2500	1	*	cm₀c	cucyc	cerRc	cbcbz₀w
Croydon	1013.7	+6	SE'E	1	c	64	75	6	5	7	7	1	10	4000	0	*	cm₀z₀pr₀	cpr₀cm₀	cm	cm₀bm₀
S. Farnborough	1014.0	+6	NNE	2	c	68	55	8	7	7	-	2-3	9	4000	0	*	cm₀⊕y	cer₀y	cyBcer₀b	bm₀wbc
Boscombe Down	1014.4	+10	NW'W	4	c	66	55	8	2	-	-	7-8	7-8	4000	0	*	bc	bc	bc	bbm₀
Calshot (Soton.)	1014.0	+6	ENE	1	c	69	75	7	8	3	-	4-6	7-8	4000	0	0	bcmbc	bccybc	cpr₀cm₀	bcm₀cm
Lympne	1014.0	+12	NNE	2	c/r	57	92	6	2	2	-	2-3	10	2500	1	§ 2	cm₀ir₀	cmPRtlr	rcmr₀cbc	bfbcmc
Manston	1014.4	+10	NE	3	rcc	56	92	6	5	7	-	7-8	10	2500	1	*	cm₀cz₀	czcr₀c	r₀cbcm₀	bccm₀c
Shoeburyness	1014.7	+10	NE	2	c	61	85	8	8	1	-	4-6	10	4000	0	*	cm₀	cm₀cpr₀	cbcc	bcwm₀b
Felixstowe	1013.8	+10	N'E	1	c	61	92	8	6	2	-	Tr	9+	1500	1	0	cir₀m₀	irir₀c	cm₀	cm₀bc
Gorleston	1013.5	+6	N	4	c	60	75	7	5	-	-	9+	9+	2500	1	1	oir₀	oir₀c	cbcc	c
Mildenhall	1013.8	+6	NE'N	2	bc	67	45	8	-	4	6	0	4-6	-	0	*	cz₀c	ccy	c	bcm₀bc
Cranwell	1014.1	+16	NE	2	bc	67	45	8	8	6	5	4-6	4-6	4000	0	*	bcy	bcbcy	cybcb	b,bcbm₀
Birmingham	1014.7	+10	NNW	3	bc	66	45	8	-	6	-	0	4-6	-	0	*	bc	bc	bcb	b
Upper Heyford	1014.2	+10	NW	2	z₀	65	65	6	8	3	-	7-8	9	2500	0	*	c	cbcycz₀	cz₀bcb	bm₀
Ross-on-Wye	1014.8	+10	NW'N	3	c	65	65	9	7	-	-	7-8	7-8	4000	0	*	bvbbcvy	bcvycvy	cvb	b
Hartland Point	1017.3	+8	NW	3	bc	58	75	8	1	-	5	1	2-3	2500	0	2	bc	bc	bc	bc
Bristol	1015.0	+4	W'N	3	c	64	65	8	4	3	-	2-3	7-8	4000	0	*	bc	bcycbc	bcbw	bw
Portland Bill	1015.0	+6	W	3	bc	61	85	8	1	-	-	4-6	4-6	4000	0	2	bc	cbc	cbc	bcbc
Plymouth	1017.1	+12	NW'N	4	b	62	55	8	1	-	5	Tr	1	4000	0	2	bbcy	bcyb	b	b
The Lizard	1017.5	+4	NW	4	bc	61	65	8	7	4	-	4-6	4-6	4000	0	2	bcy	bc	bcw	bc
Scilly (St. Mary's)	1018.1	+4	NW'W	3	c	64	75	8	8	6	4	2-3	9	2500	0	2	bcc	c	c	c
Guernsey	1015.5	+10	WNW	3	b	63	75	9	-	7	-	0	1	-	0	3	bcb	b	bbc	bbcc
Pembroke	1017.5	+6	W'S	3	bc	58	75	8	-	7	-	0	2-3	-	0	2	bbc	bc	bc	c
Holyhead	1016.7	+6	WSW	3	b	60	65	9	3	4	1	Tr	Tr	2500	0	2	cbcb	b	bw	bwbc
Chester (Sealand)	1016.4	+10	WNW	3	b	61	55	8	2	-	-	Tr	Tr	2500	0	*	bcy	by	bybcbw	bcwm₀
Manchester	1015.7	+10	WNW	4	b	65	45	9	1	4	-	Tr	Tr	4000	0	*	bcy	bcybyv	bcm₀F	oF Fmm
Spurn Head	1014.3	+4	N	2	bc	64	75	7	-	-	8	0	2-3	-	0	3	c	cbc	cbcw	bc
Catterick	1014.3	+18	ENE	2	c	66	55	7	7	3	-	4-6	7-8	4000	0	*	bbcy	bcy	bcyb	bbwb
Tynemouth	1014.8	+8	SE	2	bc	61	75	8	1	3	-	2-3	2-3	2500	0	1	bc	bc	bc	bc
St. Abbs Head	1013.8	+8	WNW	2	bc	65	45	8	1	4	-	2-3	4-6	2500	0	1	bc	bcy	bc	bc
Leuchars	1013.4	+10	W	3	bc	69	45	9	7	4	9	Tr	2-3	5700	0	*	bbcbcy	bcyby	bybcb	bc,b
Renfrew (Abbots L.)	1015.2	+10	NW'W	3	bc	65	45	9	7	-	2	2-3	2-3	4000	0	*	cbccy	cbcy	bcybyc	cw
Eskdalemuir	1014.7	+14	NW'W	3	bc	63	55	8	5	-	-	4-6	4-6	4000	0	*	bcbcy	bcy	bcybc	bcwbc
Point of Ayre	1016.5	+4	WNW	4	b	63	63	8	1	4	-	Tr	1	4000	0	2	b	b	b	bcc
Tiree	1014.9	+6	SW	2	c	59	75	8	5	-	-	9	9	2500	0	2	cbc	bcc	c	cbc
Stornoway	1014.1	+12	SSW	4	c	57	85	9	5	7	-	4-6	9	2500	0	2	cpr₀	c	cr₀r	cbc
Dalwhinnie	1014.7	+16	SW	3	bc	62	45	8	4	5	4	2-3	2-3	4000	0	*	cbc	bc	•	bcb
Aberdeen	1014.6	+14	SE'E	2	bc	59	65	8	8	3	-	4-6	4-6	4000	0	1	bybcy	bcybc	bcb	bbw
Wick	1014.4	+16	NW	3	c	57	65	8	8	4	8	4-6	7-8	1500	0	1	cprc	c	cbcc	cbc
Lerwick	1011.8	+8	W	2	bc	57	75	8	5	-	-	4-6	4-6	2500	0	*	c	cbc	bc	bcw
Blacksod Point	1015.9	+6	SW	3	c	61	75	8	-	5	-	0	7-8	-	0	3	bcc	c	b	bc
Malin Head	1015.6	+10	NW	2	c	59	75	8	8	-	-	7-8	7-8	5700	0	2	cbc	c	cbc	bc
Aldergrove	1015.6	+10	W	2	c	63	65	8	8	-	-	9+	9+	2500	0	*	cbcy	bccyc	c,b	b
Birr Castle	1016.4	+4	WNW	1	c	64	65	8	8	1	-	7-8	10	1500	0	*	c	c	b	b
Valentia Obsy. †	1017.8	+2	W	3	b	61	75	8	1	-	-	1	1	2500	0	2	cbc	bcb	bbwbcw	bwbcwb
Roches Point	1016.6	+2	WNW	3	c	62	85	8	8	7	-	4-6	7-8	2500	0	2	c	c	b	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/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost, y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). ⸙gale.
⊕ Solar halo. ⦶ lunar halo. ⌂Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

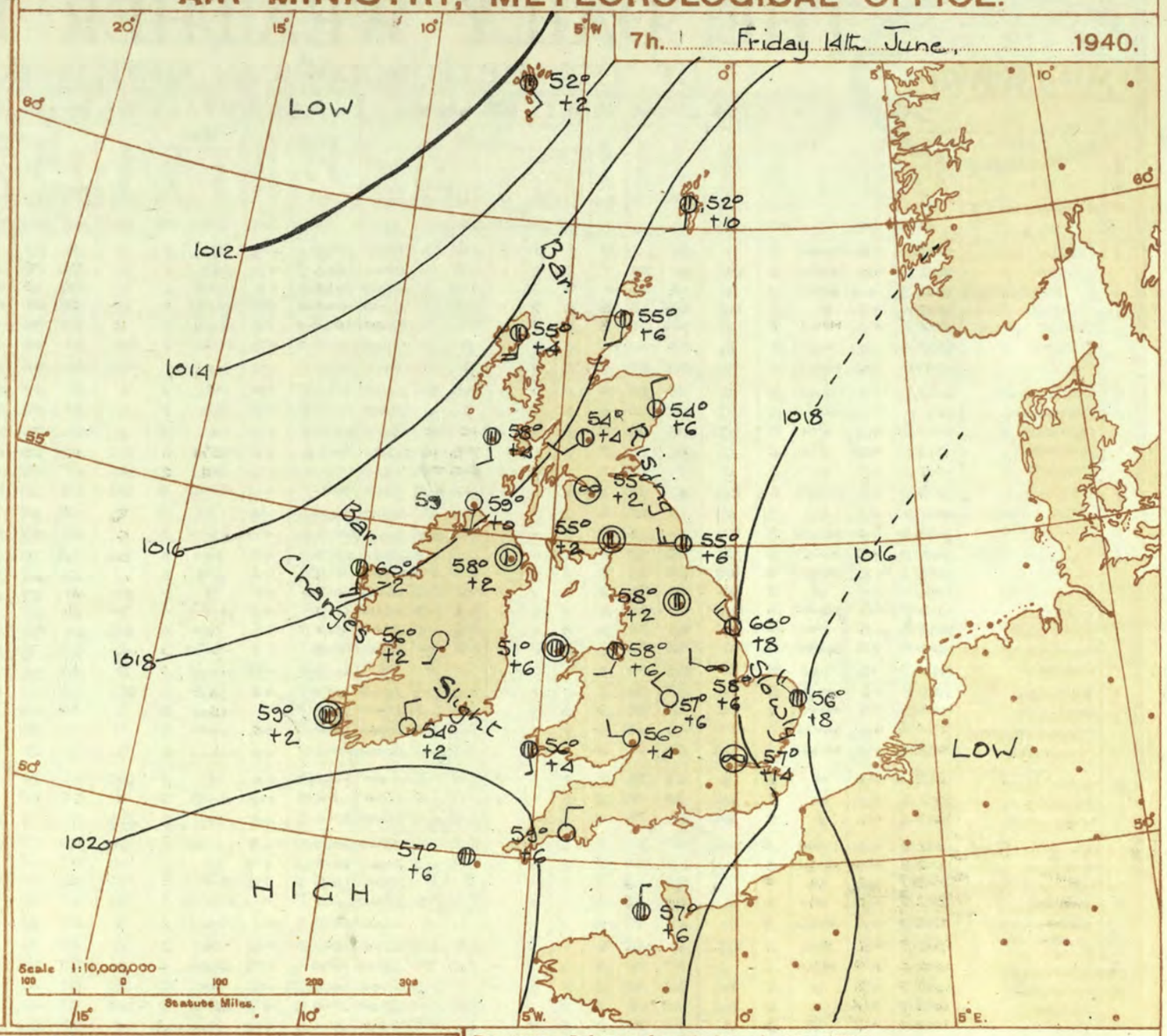
Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 14th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light northwest or variable wind; fair or fine; rather warm.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light variable wind; fair or fine; rather warm inland.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1 - 4.
12 S.W. Scotland & Isle of Man.	As 5 - 8.
13 A. W. Scotld. B.N.W.Scotland.	Light southerly wind; fair apart from local showers; average temperature.
14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light southerly or variable wind; fair; temperatures above average.
17 N. W. Ireland 18 N. E. Ireland	Light southerly or variable wind; fair or fine; rather warm inland.
19 S. E. Ireland 20 S. W. Ireland	As 5 - 8.

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

General Inference.

Pressure is high to the southwest of the British Isles, and a ridge of high pressure extending over the Irish Sea and Scotland is intensifying.

Weather will be rather warm and fair or fine generally except for scattered showers in West Scotland.

Further Outlook.

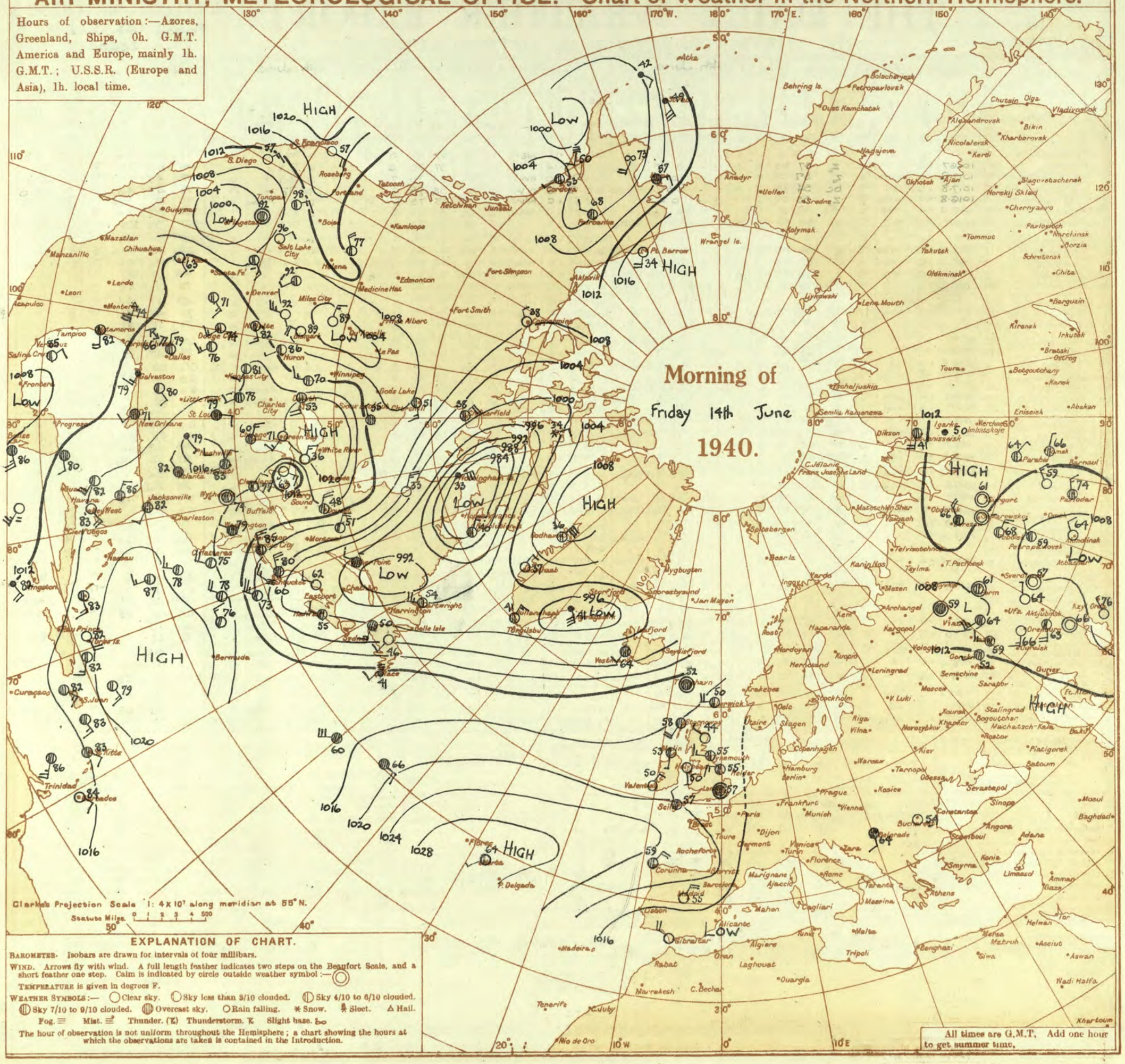
Fair weather over most of the country, continuing for a few days in the Southeast.

Forecasts issued at

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Friday 14th June, 1940.
No. 28694

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

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	1016.7	+4	-	0	z	57	85	5	5	-	-	9	9	4000
	S. Farnborough	226	1017.2	+6	WNW	1	z	52	92	6	-	-	-	0	0	-
	Boscombe Down	417	1017.8	+6	N	2	bc	54	85	7	5	-	-	2-3	2-3	4000
	Calshot (Sthmtn.)	8	1016.8	+4	NW'N	3	z	59	92	6	-	3	-	0	4-6	-
	Lympne	346	1017.6	+4	NW	2	z+	52	97	2	-	-	-	0	0	-
	Manston	154	1016.7	+2	W'S	2	z	58	97	5	5	-	-	4-6	4-6	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1016.2	+2	NW	2	z	58	92	6	7	7	-	4-6	9	2500
	Gorleston	5	1015.6	+6	NW'N	3	c	55	85	7	5	-	-	7-8	7-8	2500
	Mildenhall	19	1016.9	+8	NW	2	c	52	92	7	5	-	-	7-8	7-8	5700
	Cranwell	240	1017.3	+6	-	0	b	54	75	7	5	-	-	Tr	Tr	5700
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1017.7	+8	WNW	1	z	53	75	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1018.7	+2	N	2	bc	55	92	8	5	-	3	2-3	4-6	2500
	Bristol	209	1018.8	+8	-	0	b	53	85	7	-	3	-	0	Tr	-
	Portland Bill	32	1016.9	+4	N	3	bc	57	85	8	5	-	-	4-6	4-6	4000
	Plymouth	82	1018.9	+6	NNW	2	b	53	85	8	-	4	-	0	1	-
	The Lizard	240	1019.7	+6	-	0	bc	53	97	8	8	4	-	2-3	4-6	2500
	Scilly (St. Mary's)	163	1019.8	+4	NW	2	c	57	92	7	5	3	-	4-6	9+	2500
	Guernsey	175	1017.7	+4	NW	1	b	54	85	8	-	1	-	0	1	-
6	Pembroke	142	1019.2	+2	-	0	bc	54	92	7	8	-	-	4-6	4-6	2500
7	Holyhead	26	1018.4	+4	SSE	1	b	50	92	9	5	4	1	Tr	Tr	4000
	Chester (Sealand)	16	1018.9	+8	-	0	b	46	92	8	-	-	-	0	0	-
8	Manchester	70	1018.8	+10	W'N	1	bcF+	42	97	1	-	7	-	0	2-3	-
10	Spurn Head	29	1016.8	+10	NWW	3	bc	56	85	6	5	-	1	2-3	2-3	800
	Catterick	175	1017.8	+4	NWW	2	b	50	85	8	-	6	1	0	1	-
	Tynemouth	108	1017.2	+6	W	3	bc	65	85	6	2	-	1	4-6	4-6	2500
11	St. Abbs Head	280	1016.7	+8	WNW	3	bc	57	65	8	4	4	8	1	2-3	2500
	Leuchars	36	1017.6	+12	-	0	b	50	92	8	-	3	1	0	1	-
12	Renfrew (Abbots I.)	19	1018.4	+12	-	0	c	48	92	9	5	9	6	Tr	9+	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1018.4	+4	W'N	3	b	51	92	8	4	-	-	1	1	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1015.6	+4	SSW	4	c/pp	55	85	7	8	7	-	7-8	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1017.1	+6	SW	1	c	50	85	7	5	7	-	4-6	7-8	1500
16	Lerwick	156	1017.0	+18	W	4	bc	50	92	8	5	4	-	4-6	4-6	2500
17	Blacksod Point	18	1017.5	+2	SSW	2	b	56	85	8	-	-	-	0	0	-
18	Malin Head	84	1018.0	+8	S	1	bc	53	92	8	5	4	-	2-3	4-6	5700
	Aldergrove	268	1018.3	+6	-	0	b	49	92	7	5	4	-	Tr	1	5700
19	Birr Castle	173	1008.6	+2	SSW	1	b	49	92	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1019.1	+2	NE	2	b	50	92	8	-	4	-	0	Tr	-
	Roches Point	22	1018.7	+2	NW	2	b	55	92	8	-	-	-	0	0	-

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1018.9	+14	WSW	1	z	57	75	5	-	-	1	0	Tr	-	1	*
Croydon	1018.4	+14	-	0	z	57	85	6	-	3	1	0	2-3	-	0	*
S. Farnborough	1017.2	+10	SW'S	1	bc	54	75	7	-	3	1	0	2-3	-	0	*
Boscombe Down	1019.2	+6	N'W	2	z	55	75	6	-	3	-	0	Tr	-	0	*
Calshot (Sthmtn.)	1018.4	+6	N'W	2	z	58	75	6	5	4	-	Tr	1	7200	0	1
Lympne	1018.3	+6	N'W	2	bc	58	75	8	-	-	2	0	4-6	-	1	§ 1
Manston	1017.9	+6	N	3	c	59	75	7	-	7	6	0	7-8	-	1	*
Shoeburyness	1018.1	+6	NNW	2	b	60	75	8	-	4	2	0	1	-	0	*
Felixstowe	1017.7	+14	NW	3	bc	57	85	8	-	3	9	0	2-3	-	0	2
Gorleston	1016.7	+8	NW	3	c	56	85	7	5	4	-	4-6	7-8	2500	1	2
Mildenhall	1018.2	+8	NW	2	bc	57	85	7	-	7	4	0	4-6	-	0	*
Cranwell	1018.9	+6	WNW	2	z	58	75	6	-	-	1	0	Tr	-	0	*
Birmingham	1019.6	+6	NW	2	b	57	75	6	-	-	-	0	0	-	0	*
Upper Heyford	1018.9	+4	NW	2	z	56	75	6	-	-	-	0	0	-	0	*
Ross-on-Wye	1019.4	+4	W	2	b	56	75	9	-	-	1	0	Tr	-	0	*
Hartland Point	1019.6	+6	NE	2	bc	59	85	8	5	-	3	2-3	4-6	2500	0	2
Bristol	1020.4	+8	NNW	1	b	56	65	7	-	-	-	0	0	-	0	*
Portland Bill	1012.7	+6	NNE	3	bc	62	75	8	4	-	-	4-6	4-6	4000	0	2
Plymouth	1019.6	+6	N	2	b	59	65	8	-	5	-	0	Tr	-	0	1
The Lizard	1020.4	+6	-	0	bc	58	85	8	8	6	-	4-6	4-6	4000	0	1
Scilly (St. Mary's)	1020.4	+6	-	0	c	57	92	8	8	3	-	2-3	7-8	2500	0	1
Guernsey	1018.5	+6	N'E	1	c	57	85	7	-	7	9	0	7-8	-	0	3
Pembroke	1019.5	+4	SSE	1	c	56	92	7	8	-	-	9	9	1500	0	1
Holyhead	1019.3	+6	SSW	2	bc	58	85	9	-	-	2	0	4-6	-	0	1
Chester (Sealand)	1019.8	+6	-	0	c	51	85	6	7	3	6	4-6	7-8	4000	1	*
Manchester	1019.6	+4	-	0	z	53	97	5	7	-	-	4-6	9	4000	0	*
Spurn Head	1018.0	+8	NWW	3	b	60	85	7	-	3	-	0	1	-	0	3
Catterick	1019.0	+2	-	0	bc	58	65	8	-	-	2	0	2-3	-	0	*
Tynemouth	1019.3	+12	W	3	bc	58	65	6	-	4	1	0	2-3	-	0	0
St. Abbs Head	1018.2	+6	WNW	3	bc	55	75	9	-	4	2	2-3	2-3	4000	0	1
Leuchars	1018.9	+8	-	0	bc	59	65	9	8	7	-	1	2-3	4000	0	*
Renfrew (Abbots I.)	1019.3	+2	-	0	z	55	85	6	5	-	1	7-8	7-8	4000	0	*
Eskdalemuir	1019.2	+2	-	0	bc	55	65	8	5	3	2	Tr	4-6	2500	0	*
Point of Ayre	1019.5	+10	SE'S	2	c	58	85	8	-	-	6	0	7-8	-	0	1
Tiree	1017.7	-4	SSE	2	c	58	75	8	5	-	-	7-8	7-8	2500	0	2
Stornoway	1016.9	+4	S	4	bc	55	92	7	5	4	9	2-3	4-6	2500	1	2
Dalwhinnie	1019.3	+4	SW	2	b	54	75	8	-	-	4	0	1	-	0	*
Aberdeen	1019.6	+6	N'W	2	b	54	85	7	1	3	-	Tr	Tr	4000	0	1
Wick	1018.1	+6	S	2	bc	55	85	8	5	4	8	2-3	2-3	2500	0	1
Lerwick	1019.0	+10	S	2	bc	52	85	8	5	4	-	2-3	4-6	2500	0	*
Blacksod Point	1017.4	-2	S	3	bc	60	85	8	2	-	-	2-3	2-3	2500	0	2
Malin Head	1018.2	0	S	1	b	59	75	8	-	-	-	0	0	-	0	0
Aldergrove	1018.9	+2	-	0	b	58	85	7	-	-	1	0	1	-	0	*
Birr Castle	1019.4	+2	SSW	1	b	56	85	8	-	-	-	0	0	-	0	*
Valentia Obsy.	1019.1	+2	-	0	c	59	92	8	5	-	-	9	9	2500	0	2
Roches Point	1019.2	+2	NNW	2	b	54	92	8	-	-	-	0	0	-	0	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 13th Hrs. (36)
London (Kew)	68	54	44	-	3	0.8
Croydon	66	53	44	Tr	-	0.1
S. Farnborough	69	47	40	Tr	-	3.5
Boscombe Down	71	47	43	-	-	10.0
Calshot (Sthmtn.)	71	57	53	-	Tr	7.2
Lympne	66	52	44	11	Tr	0.0
Manston	67	52	49	0.5	0.1	0.0
Shoeburyness	70	51	41	Tr	-	1.2
Felixstowe	63	52	48	4	-	0.0
Gorleston	61	52	51	3	-	0.0
Mildenhall	68	47	37	-	-	4.1
Cranwell	73	50	43	-	-	8.2
Birmingham	67	49	44	-	-	13.0
Upper Heyford	70	48	43	Tr	-	*
Ross-on-Wye	71	46	38	-	-	11.7
Hartland Point	59	53	50	-	-	14.9
Bristol	70	47	38	-	-	11.6
Portland Bill	62	55	*	-	-	*
Plymouth	63	51	37	0.2	-	14.2
The Lizard	63	51	*	-	-	13.2
Scilly (St. Mary's)	65	55	*	-	-	7.8
Guernsey	65	54	48	-	-	14.4
Pembroke	60	52	*	-	-	14.6
Holyhead	61	48	40	-	-	11.2
Chester (Sealand)	64	43	36	-	-	15.5
Manchester	69	38	36	-	-	14.4
Spurn Head	65	54	*	-	-	8.6
Catterick	72	44	38	-	-	13.1
Tynemouth	62	52	49	-	-	*
St. Abbs Head	65	53	*	-	-	*
Leuchars	71	47	36	-	-	15.3
Renfrew (Abbots I.)	68	43	40	-	-	9.2
Eskdalemuir	68	35	30	-	-	12.6
Point of Ayre	*	48	*	-	-	15.3
Tiree	63	48	*	-	-	8.8
Stornoway	62	54	*	Tr	Tr	0.9
Dalwhinnie	65	38	31	-	-	10.3
Aberdeen	65	43	38	-	-	11.3
Wick	60	46	*	-	-	*
Lerwick	61	48	*	-	-	8.8
Blacksod Point	63	54	*	-	-	*
Malin Head	61	47	*	-	-	4.2
Aldergrove	67	46	45	-	-	7.5
Birr Castle	66	42	39	-	-	1.4
Valentia Obsy.	63	49	42	-	Tr	10.9
Roches Point	64	52	*	-	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	cmc	cvcyc	ccrRc	68	54	44	-	3	0.8	*	*	7
Croydon	217	cmz pz	cpz cmz	cmbmz	66	53	44	Tr	-	0.1	*	*	6
Greenwich (Royal Observatory)	149	cR	c	cb	66	52	40	1	-	0.0	73	50	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*				
Westminster (St. James' Park)	27	*	*	*	68	55	49	1·	-	0.1	67	51	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	68	53	48	Tr	Tr		47	51	*
Camden Square	110	bc	bc	*	67	54	46	Tr	-	*	*	48	*
Kensington	80	bcep	cbc	*	68	54	46	Tr	-		67	49	*
Hampstead Observatory	450	bc	c	b	67	53	47	-	-		*	67	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
0.1	15-18h 13th	<0.1	rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 13th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 14th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome														

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Saturday 15th June 1940.

No. 28695

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018·3	-4	NW'N	2	c	70	35	7	1	-	-	7-8	7-8	4000
	Croydon	1017·9	-6	WNW	2	bc	72	35	8	2	-	-	4-6	4-6	4000
	S. Farnborough	1017·9	-6	NW'N	3	bc	73	35	8	8	-	-	4-6	4-6	4000
	Boscombe Down	1018·4	-6	NW'W	2	bc	71	45	8	1	-	-	4-6	4-6	4000
	Calshot (Soton.)	1018·1	-4	SW	3	bc	73	55	8	2	-	-	4-6	4-6	4000
	Lympne	1018·6	+2	S'E	3	bc	65	75	8	1	-	5	4-6	4-6	4000
	Manston	1018·2	-2	NNW	3	c	70	45	8	7	7	6	4-6	7-8	1500
2	Shoeburyness	1018·0	-6	NNW	2	bc	73	35	8	1	-	-	4-6	4-6	4000
	Felixstowe	1017·7	-2	N'W	3	c	69	45	8	1	9	-	7-8	9	4000
	Gorleston	1017·4	+4	NNW	5	pr	62	55	7	6	4	-	4-6	9	2500
	Mildenhall	1018·0	-2	NNW	2	bc	70	45	9	7	7	-	4-6	4-6	4000
	Cranwell	1018·2	-3	WNW	2	bc	73	35	8	1	-	2	4-6	4-6	2500
3	Birmingham	1018·5	-2	WNW	2	bc	70	45	8	1	-	-	2-3	2-3	4000
	Upper Heyford	1018·7	-6	NW	2	bc	62	45	8	2	-	-	4-6	4-6	4000
4	Ross-on-Wye	1019·0	0	N'E	3	bc	69	45	9	1	-	1	2-3	2-3	4000
5	Hartland Point	1020·4	+2	WNW	2	bc	62	75	8	1	4	4	1	2-3	4000
	Bristol	1019·6	-6	W'N	3	bc	69	45	8	1	-	5	2-3	2-3	4000
	Portland Bill	1019·1	+10	WSW	2	bc	61	85	8	5	-	-	4-6	4-6	4000
	Plymouth	1019·6	-2	S	3	b	67	65	8	2	-	6	1	1	4000
	The Lizard	1020·8	0	W	2	bc	66	75	8	8	6	-	2-3	4-6	4000
	Scilly (St. Mary's)	1021·1	+4	WNW	2	bc	68	65	8	8	4	-	2-3	4-6	2500
	Guernsey	1018·7	+2	-	0	b	66	73	7	-	-	-	0	0	-
6	Pembroke	1020·3	-2	SW	2	bc	60	85	7	8	7	-	2-3	4-6	1500
7	Holyhead	1019·9	0	SW'W	3	bc	65	55	9	2	-	1	1	2-3	2500
	Chester (Sealand)	1019·7	+2	NW	4	bc	66	55	9	2	-	-	2-3	2-3	2500
8	Manchester	1018·8	-2	W	3	bc	71	45	8	7	-	-	4-6	4-6	5700
10	Spurn Head	1018·5	+2	N	4	bc	65	75	7	5	-	-	2-3	2-3	2500
	Catterick	1018·5	-6	N	2	c	71	45	8	7	-	-	7-8	7-8	4000
	Tynemouth	1019·5	0	ENE	3	bc	61	75	8	2	4	-	2-3	2-3	2500
11	St. Abbs Head	1019·1	+4	ESE	2	bc	62	75	8	1	-	-	2-3	2-3	2500
	Leuchars	1019·6	+6	E	2	bc jf	61	75	5	2	-	-	2-3	2-3	4000
12	Renfrew (Abbots I.)	1018·9	-2	WSW	1	c	71	55	8	7	-	-	9	9	2500
	Eskdalemuir	1018·5	0	SW'S	2	c	66	55	8	7	-	-	7-8	7-8	4000
	Point of Ayre	1020·0	+2	N	2	b	60	75	8	5	-	1	Tr	1	2500
13A	Tiree	1017·6	0	S'E	4	bc	65	65	8	1	-	5	1	2-3	4000
13B	Stornoway	1017·0	0	S	4	bc	61	75	8	1	4	6	Tr	2-3	2500
15	Dalwhinnie	*	-4	SW	3	bc	67	56	8	4	6	-	2-3	2-3	4000
	Aberdeen	1019·9	+2	ESE	3	b	63	65	8	1	-	1	Tr	Tr	4000
	Wick	1018·8	+2	SSE	3	bc	58	85	8	1	4	4	1	2-3	2500
16	Lerwick	1019·4	+4	SW	3	c	55	85	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	1017·2	0	S	4	c	62	85	8	-	7	-	0	9+	-
18	Malin Head	1017·6	0	NE	1	b	60	85	8	-	-	-	0	0	-
	Aldergrove	1018·3	-4	SW	2	bc	72	55	9	1	-	-	2-3	2-3	2500
19	Birr Castle	1018·3	-6	S	1	c	72	55	8	4	-	-	7-8	7-8	2500
20	Valentia Obsy. †	1019·5	0	S	4	c	65	85	8	5	-	-	9+	9+	1500
	Roches Point	1019·9	+2	SSW	3	b	64	75	8	1	-	-	1	1	4000

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

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1017·0	-8	NNW	2	bc	73	45	7	1	-	-	4-6	4-6	2500	1	*
	Croydon	1016·9	-6	NW'N	1	bc	72	45	7	4	-	-	4-6	4-6	4000	0	*
	S. Farnborough	1016·9	-6	NW'W	3	bc	73	35	8	8	-	4	2-3	4-6	4000	0	*
	Boscombe Down	1017·6	-6	NW'N	3	bc	70	35	8	1	-	3	1	4-6	4000	0	*
	Calshot (Soton.)	1017·1	-8	NW	4	c	73	45	7	8	-	4	4-6	7-8	4000	0	3
	Lympne	1018·1	-2	SSW	2	c	65	65	7	2	-	8	1	9	4000	0	§1
	Manston	1018·0	0	SE	2	c	62	75	8	8	7	6	2-3	9	2500	0	*
2	Shoeburyness	1017·9	+6	ESE	4	bc	63	75	8	-	-	6	0	4-6	-	0	*
	Felixstowe	1017·4	-4	ENE	3	c	62	65	8	5	7	-	2-3	9	5700	0	1
	Gorleston	1017·3	-1	N'W	4	c	57	85	7	6	-	-	10	10	1500	1	2
	Mildenhall	1017·4	-2	SE'S	3	c	69	45	8	-	7	-	0	7-8	-	0	*
	Cranwell	1017·9	+2	E'N	3	bc	66	45	8	8	6	-	4-6	4-6	2500	0	*
3	Birmingham	1017·0	-8	NNW	3	bc	70	35	8	7	-	4	4-6	4-6	4000	0	*
	Upper Heyford	1017·7	-4	NNW	2	bc	70	45	8	1	-	6	1	4-6	4000	0	*
4	Ross-on-Wye	1017·7	-6	NE	1	bc	69	55	9	7	4	1	4-6	4-6	4000	0	*
5	Hartland Point	1019·8	-2	WNW	2	bc	62	85	8	2	-	-	2-3	2-3	2500	0	2
	Bristol	1018·6	-2	W	3	bc	67	55	8	4	-	6	1	4-6	5700	0	*
	Portland Bill	1018·3	-2	WNW	2	bc	63	85	8	5	-	-	4-6	4-6	4000	0	2
	Plymouth	1019·1	-6	NW	2	bc	67	65	8	1	-	1	1	2-3	4000	0	2
	The Lizard	1019·9	-8	NW	3	bc	65	65	8	8	-	-	2-3	2-3	2500	0	1
	Scilly (St. Mary's)	1020·5	-6	WNW	2	bc jp	64	75	8	5	4	-	2-3	4-6	2500	0	1
	Guernsey	1018·5	-4	-	0	b	64	65	7	-	-	-	0	0	-	0	2
6	Pembroke	1020·1	0	WNW	2	bc	61	92	8	2	3	-	1	2-3	4000	0	1
7	Holyhead	1019·1	-8	WSW	3	b	64	55	9	2	-	-	Tr	Tr	4000	0	1
	Chester (Sealand)	1018·9	-2	WNW	4	b	63	65	9	1	-	-	1	1	4000	0	*
8	Manchester	1018·1	-2	WNW	3	c	68	55	8	2	3	-	1	7-8	4000	0	*
10	Spurn Head	1018·1	0	N	3	bc	64	75	7	5	9	-	2-3	4-6	2500	0	2
	Catterick	1018·2	0	NE	2	b	66	55	7	-	-	-	0	0	-	0	*
	Tynemouth	1019·0	-2	E	3	bc	62	75	8	2	-	-	2-3	2-3	2500	0	0
11	St. Abbs Head	1018·8	0	SE	3	bc	60	75	8	4	4	-	2-3	4-6	2500	0	2
	Leuchars	1018·8	-2	ENE	2	b	62	75	8	-	-	-	0	0	-	0	*
12	Renfrew (Abbots I.)	1018·1	-4	WSW	1	b	72	45	9	7	-	1	Tr	1	4000	0	*
	Eskdalemuir	1017·2	-6	S'W'W	3	bc	66	65	8	7	-	-	4-6	4-6	4000	0	*
	Point of Ayre	1018·9	-8	NW'W	3	b	67	75	8	1	-	-	Tr	Tr	4000	0	1
13A	Tiree	1016·8	+2	S'W	3	b	62	75	8	-	-	5	0	1	-	0	2
13B	Stornoway	1016·5	-4	S	4	c	58	75	8	5	4	6	Tr	7-8	2500	-	-
15	Dalwhinnie	1017·3	-2	SW	5	bc	67	55	8	4	6	4	1	4-6	4000	0	*
	Aberdeen	1019·1	-2	S'E	3	b	60	65	8	1	-	1	Tr	Tr	4000	0	1
	Wick	1018·0	-4	SE	5	bc	56	75	8	4	-	6	1	2-3	4000	0	2
16	Lerwick	1019·5	-2	S'E	4	c	55	85	8	5	3	-	4-6	7-8	1500	0	*
17	Blacksod Point	1016·9	0	S	3	c	61	92	7	-	7	-	0	10	-	0	2
18	Malin Head	1017·0	-2	N'E	3	bc	61	85	8	-	5	-	0	2-3	-	0	1
	Aldergrove	1017·4	-4	SSW	2	bc	72	55	9	4	-	-	2-3	2-3	4000	0	*
19	Birr Castle	1017·3	-6	SSW	1	bc	76	35	8	4	-	4	4-6	4-6	2500	0	*
20	Valentia Obsy. †	1019·0	-4	SSW	3	c	63	85	8	5	7	-	4-6	10	4000	0	1
	Roches Point	1019·2	-4	S	3	bc	63	85	9	4	-	5	1	2-3	4000	0	2

PAST 24 HOURS.

District	Weather. 7h.—13h. 14th. (37)	13h.—18h. 14th. (38)	18h. 14th. to 1h. 15th. (39)	1h.—7h. 15th. (40)
1	bz bybcy	bccbcy	bcyb	bczw
	wzy bcy	bcy	bcybbcw	bcwm
	bcbbcy	bcy	bcybbcb	bwm
	bzbcy	bcy	b	bm
	bbczy	bcybcbcy	ybcbm	bwm
	bcybc	cyc	cm	cbcm
	cbcc	cyc	c	cprc
2	bbcy	bcy	bcc	cprc
	bccvy	cvyc	cvc	cir
	cprcqy	cprcq	orir	orm
	bcbbcy	bcyybcy	bcyc	bcc
	bmbbcy	bcy	bccbc	bc
3	b	bcy	bcb	b
	bmbbc	bcy	bcbbcc	bcb
4	bvbcvy	bcvy	bcvb	bwbc
5	bc	bc	bc	bc
	bcy	bcbbcy	bcybmw	bmwbc
	bc	bc	cbc	bcbc
	b	bbc	bcb	b
	bc	bccbc	bcw	bcw
	cbc	bc	bcw	bcc
	cbcb	b	bbcc	cbc
6	cbc	bc	bcw	cifcbc
7	bcb	b	bw	bwc
	bcwmbcbby		bcwbm	bmwbcb
8	cmbcmz	bcbbcy	bybcm	bmff
10	bc	bc	c	co
	vbbcy	bcyzby	yzcbw	bwcm
	bc	bcbbc	bc	bc
11	bc	bc	bc	bc
	bbcbmjf	bmjfb	bjf	bjfbfbc
12	cmcy	cby	bybbc	bmfgw
	bcycy	cbcy	bc	bcb
	b	b	bbw	b
13A	bc	c	bc	coR
13B		bcc	c	crr
15	bbc	bc		b
	b	b	b	bbw
	bc	bc	bc	bc
16	bcc	c	c	C
17	c	c	id	c
18	bc	bc	bcc	cprcrc
	bbcy	bcyby	bybbcc	bybcc
19	bccy	cbcy	c	cir
20	cwc	c	cidom	idrrcrc
	b	bc	bcwm	irc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

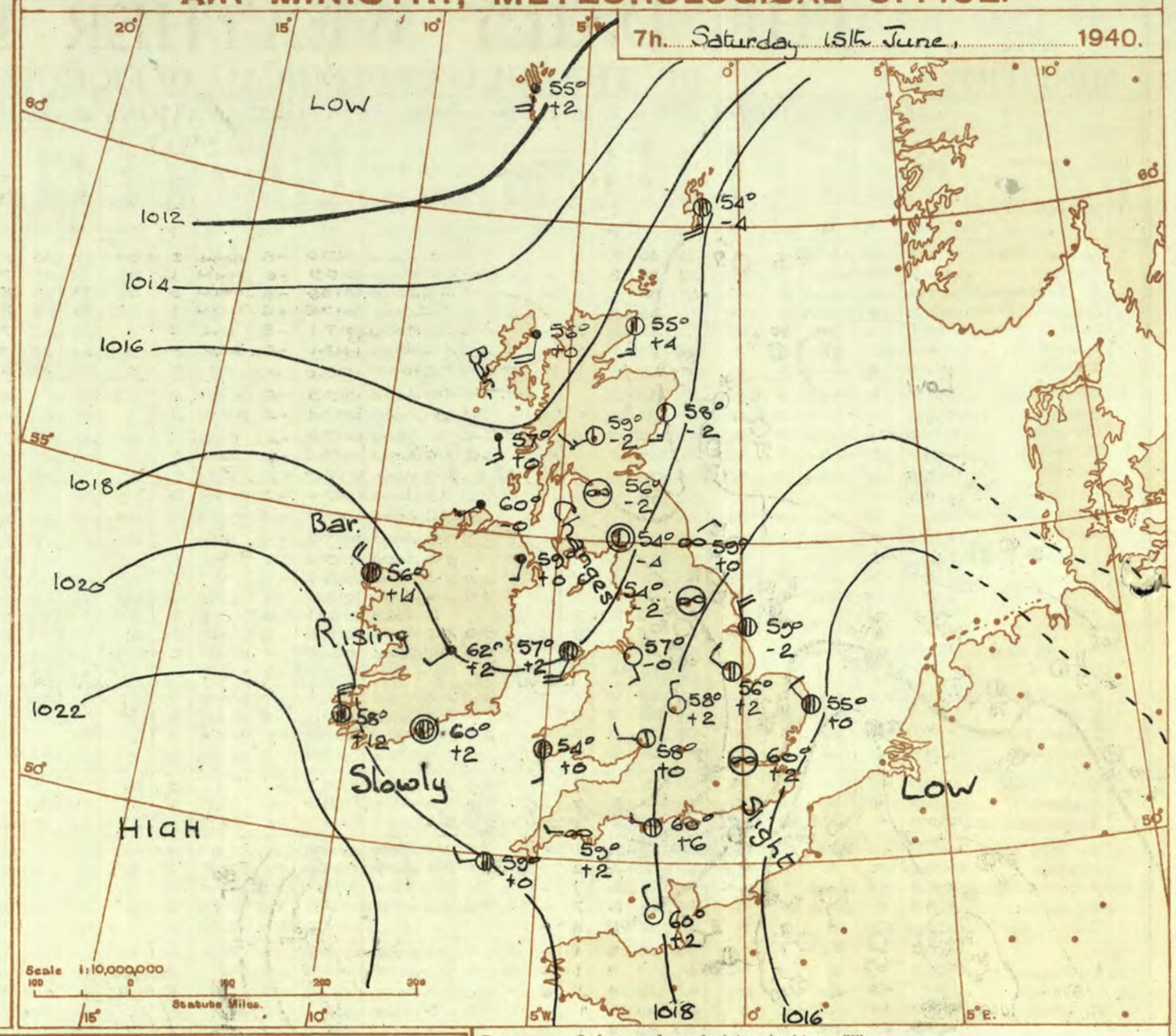
COLUMN 29—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 15th June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light variable or northwest wind; bright intervals, perhaps local thundery showers; rather warm.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light variable wind becoming northwest or north moderate; fair at first, occasional rain spreading eastward; rather warm to-day, cooler to-morrow.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland	Light or moderate variable to northwest wind; cloudy, some rain; improving later; cooler.
15 N. E. Scotland 16 Orkneys and Shetlands	Moderate south wind veering west; fair at first, rain later; rather warm to-day, cooler to-morrow.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate northwest wind, backing to-morrow; rain in east at first; becoming fair generally; cooler.

GENERAL INFERENCE.

Pressure remains highest over the Azores. A feeble trough of low pressure over Ireland and the Hebrides is moving slowly east followed by a wedge of high pressure. rain will spread slowly over our western and northern districts but weather will be fair in the Southeast except for a chance of thundery showers.

FURTHER OUTLOOK.

Some local rain and a chance of thunder in Eastern England.

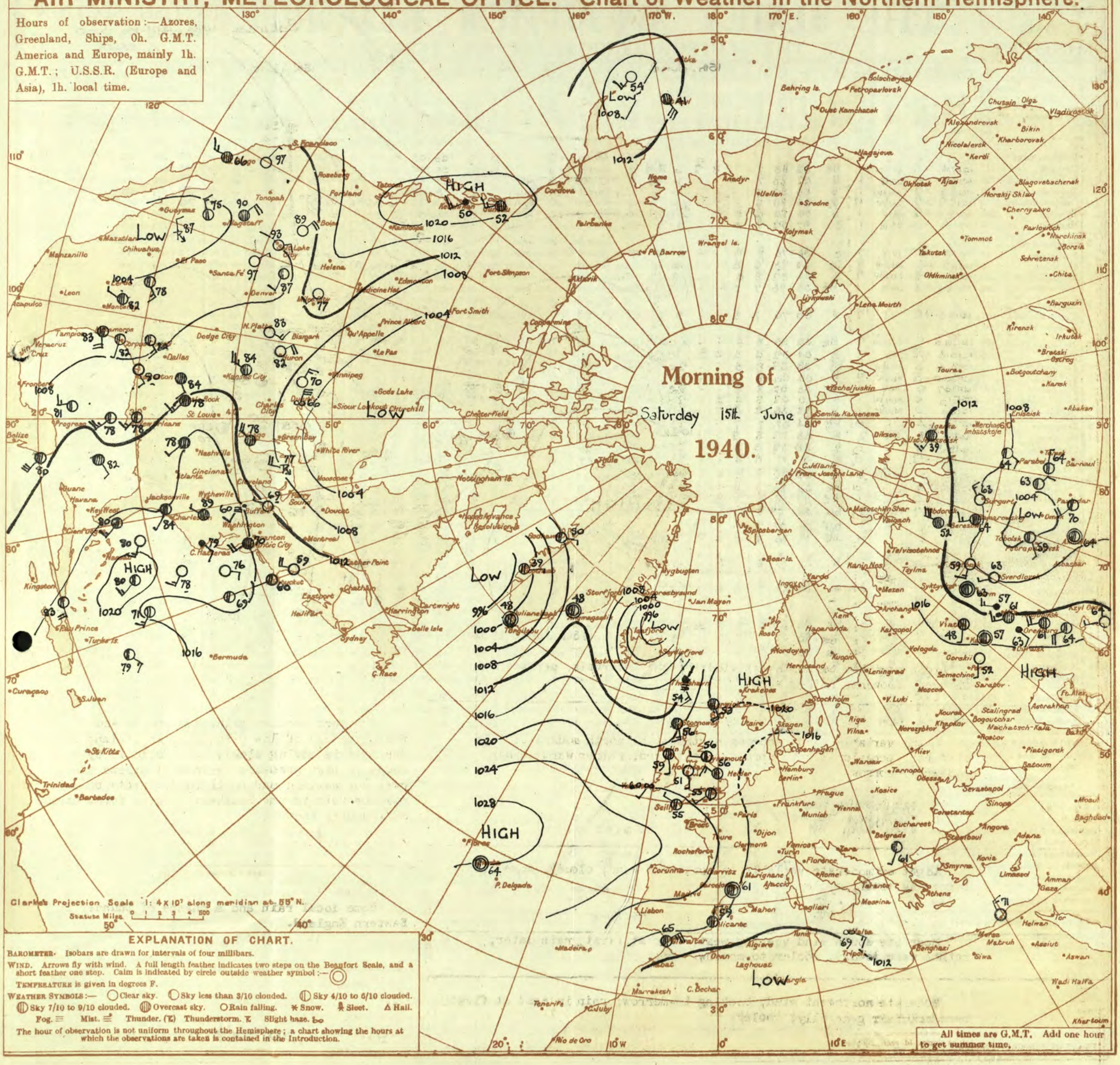
Forecasts issued at 1000 G.M.T

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 15th. June 1940.

No. 28695

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

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	1017.4	+2	WSW	1	bc	55	85	7	-	3	2	0	4-6	-
	S. Farnborough	226	1018.3	0	W'S	1	b	52	85	7	-	-	-	0	0	-
	Boscombe Down	417	1018.0	+2	WNW	1	b	53	92	7	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1018.2	+2	W'N	2	z	54	85	6	-	7	-	0	Tr	-
	Lympne ...	346	1018.3	-2	SW	1	c	56	85	6	5	7	-	4-6	10	2500
	Manston ...	154	1017.5	-10	SSE	1	c	57	92	7	5	-	-	9	9	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1017.5	-4	NW	2	c	58	78	8	5	-	-	9+	9+	5700
	Gorleston ...	5	1017.2	-4	NW'W	2	ir	56	85	6	6	-	-	10	10	1500
	Mildenhall ...	19	1018.1	-2	NW'W	2	c	54	92	8	5	-	-	7-8	7-8	7200
	Cranwell ...	240	1018.8	-4	N'E	1	bc	55	78	7	5	-	-	2-3	2-3	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1018.5	+2	N	2	c	56	78	7	5	-	-	9	9	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1020.0	-2	WNW	2	bc	56	97	8	4	-	-	4-6	4-6	2500
	Bristol ...	209	1019.3	+2	W	1	z	54	92	6	5	4	3	1	2-3	4000
	Portland Bill ...	32	1019.0	0	NNW	1	bc	59	92	8	5	-	-	2-3	2-3	4000
	Plymouth ...	82	1020.0	-2	NW'N	2	b	56	85	8	-	-	-	0	0	-
	The Lizard ...	240	1020.7	0	NW	1	bc	53	97	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1021.0	0	NW'W	1	bc	55	92	8	4	4	-	2-3	4-6	2500
	Guernsey ...	175	1019.1	0	NW'W	1	c	58	85	8	3	7	-	4-6	9	2500
6	Pembroke ...	142	1020.1	-4	-	0	bc	54	97	7	7	-	-	2-3	2-3	4000
7	Holyhead ...	26	1018.5	-8	S'E	2	b	53	92	8	2	-	1	Tr	Tr	2500
	Chester (Sealand)	16	1019.3	0	-	0	z	40	92	5	5	-	-	2-3	2-3	2500
8	Manchester ...	70	1018.3	-2	-	0	z	51	97	5	4	-	-	2-3	2-3	4000
10	Spurn Head ...	29	1017.0	0	NW'W	3	c	56	85	7	5	-	-	7-8	7-8	1500
	Catterick ...	175	1019.2	-6	-	0	bc	50	85	7	5	-	-	2-3	2-3	4000
	Tynemouth ...	108	1019.2	-2	W	1	bc	56	85	6	2	3	-	2-3	4-6	2500
11	St. Abbs Head	280	1018.5	-12	SE	3	bc	53	85	8	4	4	-	2-3	2-3	2500
	Leuchars ...	36	1018.7	-6	E	1	bjf	51	97	7	-	-	2	0	Tr	-
12	Renfrew (Abbots I.)	19	1018.6	0	-	0	bc	52	85	7	5	4	6	Tr	4-6	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1019.1	0	S'E	2	b	51	97	8	-	4	-	0	Tr	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1016.2	0	SSE	3	c	56	85	7	5	7	-	4-6	9	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1017.1	-10	S	4	bc	53	85	8	5	4	8	2-3	4-6	2500
16	Lerwick ...	156	1015.3	-2	S'E	4	c	53	97	7	8	7	-	7-8	9+	800
17	Blacksod Point	18	1017.0	-4	SSW	2	id	61	92	7	6	-	-	10	10	<150
18	Malin Head ...	84	1016.8	-4	S	1	c	53	85	8	5	7	-	2-3	7-8	5700
	Aldergrove ...	268	1017.8	-2	SE'E	1	c	54	85	8	5	-	-	9	9	5700
19	Birr Castle ...	173	1018.7	0	W	1	c	61	85	8	5	-	8	7-8	9	2500
20	Valentia Obsy.	30	1019.2	-2	S'W	2	z	60	97	6	5	-	-	10	10	450
	Roches Point	22	1019.3	-4	SSW	2	m	56	97	4	5	-	5	2-3	4-6	2200

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

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)	1017.9	+2	-	0	z	60	65	6	5	3	3	4-6	4-6	4000	1	*
	Croydon ...	1017.7	+4	-	0	bc	58	85	6	5	3	1	1	4-6	4000	0	*
	S. Farnborough	1018.2	+6	NW	1	z	54	85	6	-	8	1	0	2-3	-	0	*
	Boscombe Down	1018.5	0	NNW	1	z	55	85	6	-	-	-	0	0	-	0	*
	Calshot (Sthmtn.)	1018.1	+2	NW'W	2	z	60	85	6	-	-	-	0	0	-	0	1
	Lympne ...	1017.9	+2	N'W	2	bc	56	85	7	-	7	8	0	4-6	-	0	§2
	Manston ...	1017.2	+2	N'W	3	c/pr	55	85	7	5	1	2	4-6	9+	2500	0	*
2	Shoeburyness ...	1017.6	+4	NW	1	c	60	78	8	5	3	-	7-8	9+	2500	0	*
	Felixstowe ...	1017.1	0	WNW	3	ir	57	92	8	5	-	-	9+	9+	1500	1	1
	Gorleston ...	1016.6	0	NW	2	m	55	97	4	6	-	-	10	10	800	1	2
	Mildenhall ...	1017.3	-2	WNW	2	c	55	85	7	5	1	-	7-8	9	4000	0	*
	Cranwell ...	1018.3	+2	NW	2	bc	56	78	7	5	-	-	4-6	4-6	5700	0	*
3	Birmingham ...	1018.5	+2	NNW	1	b	58	78	6	-	-	-	0	0	-	0	*
	Upper Heyford	1018.3	+2	W'N	2	b	58	65	8	-	5	9	0	1	-	0	*
4	Ross-on-Wye	1018.9	0	W	2	b	58	78	8	5	-	-	1	1	5700	0	*
5	Hartland Point	1019.2	+2	W	2	bc	59	85	8	2	-	-	2-3	2-3	2500	0	2
	Bristol ...	1019.4	+2	W	2	z	59	78	6	5	-	-	4-6	4-6	4000	0	*
	Portland Bill ...	1019.3	+6	W'N	1	bc	60	85	8	5	-	-	2-3	2-3	4000	0	2
	Plymouth ...	1019.9	+2	W	1	z	59	85	7	-	4	-	0	Tr	-	0	1
	The Lizard ...	1020.4	-4	NW	1	bc	59	85	8	8	4	-	2-3	4-6	2500	0	1
	Scilly (St. Mary's)	1020.3	0	WSW	2	c	59	85	8	8	4	9	4-6	9	4000	0	0
	Guernsey ...	1019.2	+2	NW'N	1	b	60	85	7	-	3	-	0	2-3	-	0	2
6	Pembroke ...	1018.8	0	SSE	1	bgjf	54	97	6	4	4	-	4-6	4-6	1500	0	1
7	Holyhead ...	1018.1	+2	SSW	4	c	57	92	9	5	3	-	7-8	9+	4000	0	2
	Chester (Sealand)	1018.7	0	SSE	1	b	57	75	6	-	-	-	0	0	-	0	*
8	Manchester ...	1018.7	0	-	0	bf	52	97	3	-	-	-	0	0	-	0	*
10	Spurn Head ...	1016.9	-2	NW'N	4	c	59	85	7	6	-	-	9	9	800	0	2
	Catterick ...	1018.4	-2	-	0	z	54	85	6	5	3	-	2-3	2-3	4000	0	*
	Tynemouth ...	1019.0	0	NE	1	z	59	85	6	2	-	-	2-3	2-3	2500	0	1
11	St. Abbs Head	1017.7	0	SSE	2	bc	60	78	8	5	4	1	2-3	2-3	2500	0	1
	Leuchars ...	1018.2	-2	-	0	c	57	85	8	2	7	-	4-6	9+	1500	0	*
12	Renfrew (Abbots I.)	1018.1	-2	-	0	z	56	85	6	-	4	-	0	Tr	-	0	*
	Eskdalemuir ...	1018.0	-4	-	0	b	54	85	8	1	-	-	1	1	4600	0	*
	Point of Ayre ...	1017.9	-2	S'E	3	b	61	78	8	-	4	3	0	1	-	0	1
13A	Tiree	1015.6	0	SSE	3	rr	57	97	5	-	2	-	10	10	450	1	3
13B	Stornoway ...	1015.7	0	S	4	rr	56	97	6	5	-	-	10	10	800	1	2
15	Dalwhirnie ...	1017.7	-2	SW	3	b	59	75	8	4	6	1	1	1	4000	0	*
	Aberdeen ...	1017.9	-2	S'W	3	b	58	85	8	7	-	3	Tr	Tr	1500	0	1
	Wick ...	1016.8	+4	S	3	bc	55	92	8	5	4	4	1	2-3	2500	0	2
16	Lerwick ...	1019.0	-4	S'E	5	c	54	92	7	5	2	-	7-8	9+	800	0	*
17	Blacksod Point	1018.2	+34	NW	4	c	56	85	8	-	7	-	0	9+	-	1	3
18	Malin Head ...	1016.9	0	SW	1	rr	60	97	7	6	-	-	9+	9+	2500	0	0
	Aldergrove ...	1017.4	0	S'W	1	rr	59	92	6	5	2	-	9+	10	1500	0	*
19	Birr Castle ...	1018.6	+2	SW	1	ir	62	92	7	6	2	-	4-6	10	1500	1	*
20	Valentia Obsy.	1020.1	+12	NNW	5	c/r	58	97	7	5	-	1	9+	9+	450	1	3
	Roches Point	1019.0	+2	-	0	c	60	97	7	5	-	-	9+	9+	800	1	2

PAST 24 HOURS.

District	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)
1	London (Kew)	73	55	46	-	-	13.1
	Croydon ...	75	51	41	-	-	11.2
	S. Farnborough	76	48	40	-	-	13.3
	Boscombe Down	74	49	48	-	-	12.5
	Calshot (Sthmtn.)	76	49	45	-	-	9.9
	Lympne ...	69	54	53	-	-	12.4
	Manston ...	73	55	53	-	Tr	10.7
2	Shoeburyness ...	75	55	50	-	Tr	8.8
	Felixstowe ...	72	56	54	-	0.2	7.3
	Gorleston ...	63	55	53	1	0.6	0.5
	Mildenhall ...	73	52	49	-	-	14.2
	Cranwell ...	75	50	44	-	-	13.5
3	Birmingham ...	73	53	40	-	-	11.7
	Upper Heyford	75	53	47	-	-	*
4	Ross-on-Wye	74	48	40	-	-	13.6
5	Hartland Point	66	55	51	-	-	14.[illegible]
	Bristol ...	72	50	41	-	-	14.[illegible]
	Portland Bill ...	63	58	*	-	-	*
	Plymouth ...	68	53	45	-	-	15.1
	The Lizard ...	66	51	*	-	-	14.0
	Scilly (St. Mary's)	68	54	*	-	-	12.1
	Guernsey ...	65	55	49	-	-	12.9
6	Pembroke ...	63	51	*	-	Tr	11.8
7	Holyhead ...	66	51	45	-	-	15.7
	Chester (Sealand)	67	50	39	-	-	14.4
8	Manchester ...	73	49	40	-	-	11.6
10	Spurn Head ...	67	54	*	-	-	16.0
	Catterick ...	72	47	41	-	-	14.6
	Tynemouth ...	63	53	48	-	-	*
11	St. Abbs Head	64	50	*	-	-	*
	Leuchars ...	65	48	37	-	-	16.2
12	Renfrew (Abbots I.)	74	46	40	-	-	8.9
	Eskdalemuir ...	72	49	36	-	-	8.7
	Point of Ayre ...	68	49	*	-	-	12.7
13A	Tiree	67	53	*	-	-	14.0
13B	Stornoway ...	67	55	*	-	2	4.9
15	Dalwhirnie ...	72	49	41	-	-	13.4
	Aberdeen ...	63	51	45	-	-	15.9
	Wick ...	59	52	*	-	-	*
16	Lerwick ...	57	52	*	-	-	10.[illegible]
17	Blacksod Point	64	54	*	Tr	2	*
18	Malin Head ...	65	52	*	-	4	14.8
	Aldergrove ...	74	51	47	-	-	15.0
19	Birr Castle ...	77	60	53	-	2	12.4
20	Valentia Obsy.	68	58	58	Tr	5	3.3
	Roches Point	65	56	*	-	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	bz by bc	bc bc by	bc zw	73	55	46	-	-	13.1	*	*	7
CROYDON	217	vz yc by	bc y	bc y bc	75	51	41	-	-	11.2	*	*	6
GREENWICH (Royal Observatory)...	149	bc c y	bc c y	bc	74	53	41	-	-	10.3	39	52	7
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	75	57	52	-		12.0	45	79	*
REGENTS PK. (Botanic Gardens)‡...	168	*	*	*	74	54	49	-	-		56	51	*
CAMDEN SQUARE	110	b	bc	*	77	56	50	-	-	*	*	55	*
KENSINGTON	80	bc	bc	*	76	55	48	-	-		42	51	*
HAMPSTEAD OBSERVATORY	450	b	bc	bc	73	53	49	-	-		*	67	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 15th.

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.1	8h. 14th.	<0.1	10-13h. 14th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 14th. June Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 15th. June Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
PARIS														
BRUSSELS														
BERLIN														
ZÜRICH														
ROME											*	*		

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 —Code for State of Sea.

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

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

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

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 16th June 1940.

No. 28636

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1017.4	-8	NW'W	2	c	70	45	8	1	4	-	7-8	7-8	4000
	Croydon ...	1017.2	-6	W	1	bc	72	45	8	2	3	9	2-3	4-6	4000
	S. Farnborough	1017.5	-8	NW	2	bc	72	45	8	7	3	-	4-6	4-6	4000
	Boscombe Down	1017.4	-6	NNE	2	bc	72	45	8	2	-	-	4-6	4-6	4000
	Calshot (Soton.)	1017.6	-4	SW	4	bc	73	55	7	2	-	-	4-6	4-6	4000
	Lympne ...	1017.4	-6	NNW	2	c	68	55	8	1	-	-	7-8	7-8	4000
	Manston ...	1017.4	-2	NW'N	2	c	67	55	8	2	3	5	2-3	7-8	2500
2	Shoeburyness ...	1017.1	-8	ENE	3	c	69	65	8	2	7	-	7-8	9	5700
	Felixstowe ...	1016.9	-2	WNW	2	c	65	75	8	5	-	-	9+	9+	2500
	Gorleston ...	1016.4	0	NW	3	rr	58	97	6	6	-	-	10	10	2500
	Mildenhall ...	1016.9	-6	NW'N	3	c	67	45	8	7	7	-	4-6	9+	2500
	Cranwell ...	1016.6	-12	N	1	c	72	45	7	1	-	4	2-3	9	4000
3	Birmingham	1017.1	-6	NW	3	c	70	35	8	7	-	-	7-8	7-8	2500
	Upper Heyford	1017.1	-10	NNW	2	bc	73	46	7	8	-	-	4-6	4-6	2500
4	Ross-on-Wye ...	1017.4	-6	NNW	3	bc	74	45	8	7	-	-	4-6	4-6	4000
5	Hartland Point	1019.9	+4	WNW	3	bc	65	92	8	2	4	3	2-3	4-6	2500
	Bristol ...	1018.1	-6	W	3	bc	73	45	8	2	6	-	4-6	4-6	4000
	Portland Bill ...	1019.0	-2	WSW	3	bc	60	85	8	2	-	-	4-6	4-6	4000
	Plymouth ...	1019.6	-2	SW	4	c	65	75	8	2	7	1	4-6	7-8	2500
	The Lizard ...	1020.8	+4	W'S	3	c	65	75	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1021.1	+6	WSW	2	ir_o	60	97	8	8	7	-	7-8	9+	1500
	Guernsey ...	1019.6	+2	NNW	2	bc	66	65	8	-	7	-	0	2-3	-
6	Pembroke ...	1019.9	0	W'N	1	c	61	92	8	8	-	-	9+	9+	2500
7	Holyhead ...	1018.7	+2	SW'S	3	ir_o	58	92	7	5	-	-	10	10	800
	Chester (Sealand)	1017.8	-4	NW	4	bc	66	65	8	7	3	-	2-3	2-3	4000
8	Manchester ...	1017.5	-6	W	3	bc	72	45	8	1	-	-	2-3	2-3	4000
10	Spurn Head ...	1017.0	0	N	3	c	64	75	5	7	-	-	9	9	1500
	Catterick ...	1016.6	-10	NE'E	2	z_o	72	55	6	2	-	-	2-3	2-3	5700
	Tynemouth ...	1018.7	+4	ENE	3	bc	62	85	8	2	3	-	2-3	4-6	2500
11	St. Abbs Head	1017.1	-4	SSE	3	bc	65	75	8	2	4	-	2-3	2-3	2500
	Leuchars ...	1017.1	-6	E	3	bc	67	65	7	2	3	-	1	4-6	4000
12	Renfrew (Abbots I.)	1017.8	+6	W	3	ir_o	66	65	8	8	7	-	9	9+	4000
	Eskdalemuir ...	1015.9	-4	-	0	c	69	55	8	8	-	-	7-8	7-8	2500
	Point of Ayre ...	1018.0	0	NW	2	c	64	75	8	5	6	-	4-6	9	1500
13A	Tiree ...	1020.3	+20	N	4	c	57	86	8	5	-	-	9	9	1500
13B	Stornoway ...	1019.2	+30	NW	5	c	56	75	8	5	7	-	7-8	9+	2500
15	Dalwhinnie ...	1018.4	+12	SW	3	c	59	85	7	4	7	-	2-3	10	2500
	Aberdeen ...	1017.7	0	S	4	b	65	55	8	2	5	-	Tr	Tr	2500
	Wick ...	1016.6	+6	S	3	bc	59	85	8	8	6	-	1	2-3	2500
16	Lerwick...	1018.4	+4	SW	4	c	56	92	7	5	7	-	4-6	7-8	800
17	Blacksod Point..	1023.7	+20	N	5	bc	59	55	8	3	4	-	2-3	2-3	2500
18	Malin Head ...	1021.1	+24	N	4	c	57	75	8	9	-	-	7-8	7-8	5700
	Aldergrove ...	1019.7	+22	NNW	4	c	56	92	8	5	-	-	10	10	1500
19	Birr Castle ...	1021.3	+10	SW	2	c	62	65	8	8	1	-	7-8	9+	1500
20	Valentia Obsy. †	1022.9	+14	N'E	5	bc	63	65	5	7	-	-	2-3	2-3	2500
	Roches Point ...	1020.2	+4	NNW	4	c	64	85	9	8	-	1	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 15th June — **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. 15th (37)	Weather 13h.–18h. 15th (38)	Weather 18h. 15th to 1h. 16th (39)	Weather 1h.–7h. 16th (40)
London (Kew)	1016.5	-4	NNW	2	c	73	45	8	5	4	1	4-6	7-8	4000	1	*	bccy	cy	cyc	c
Croydon	1016.3	-2	WNW	2	c	73	45	8	3	3	2	4-6	9	4000	0	*	bczbcy	bcy	$bczcir_om$	cm_oir_oc
S. Farnborough	1016.1	-6	NW'W	2	c	74	35	8	8	9	-	2-3	7-8	4000	0	*	bmcbcy	bcy	$bccpr_obc$	$bccm_o$
Boscombe Down	1017.1	+2	NW	4	c	71	45	8	8	7	4	2-3	9	4000	0	*	$bbcm_oy$	bcy	$bcir_or_or_o$	cm_o
Calshot (Soton.)	1016.8	-6	SW'S	2	bc	69	75	8	8	6	1	4-6	4-6	4000	0	1	bz_obcz_o	bcbc	cm_o	cr_obccm_o
Lympne	1017.5	-2	WSW	2	c	63	75	8	4	-	-	9	9	5700	0	§2	cbcy	$cycpr_o$	cpr_oir_oc	$cr_or_oir_oc$
Manston	1017.0	-2	SSE	1	z_o	63	75	6	-	3	-	0	9	-	0	*	cbc	$bccm_o$	cm_ocpr_o	cir_om_o
Shoeburyness	1017.1	+2	E	3	c	63	85	8	8	6	1	4-6	9	2500	0	*	cbcyc	cpr_o	cp_octl	tlRrc
Felixstowe	1016.7	0	N'E	2	c	66	65	7	5	3	-	4-6	7-8	4000	1	1	cir_oc	pr_oir_oc	$bccir_om_o$	$pd_od_oir_o$
Gorleston	1016.6	0	N	2	c	58	92	6	5	-	-	10	10	2500	1	1	$omid_orr$	orc	cz_oid_o	oid_od
Mildenhall	1016.8	+2	NNE	1	c	67	65	7	5	7	-	7-8	9+	5700	0	*	ccy	$cycz_oc$	cm_oc	cid_ocm_o
Cranwell	1017.0	+6	ESE	2	z_o	68	75	6	7	7	-	7-8	9+	4000	0	*	bcbcy	$bcycz_o$	$cprcm_o$	$bm_oir_om_o$
Birmingham	1016.6	0	NW	3	c	71	45	8	8	-	6	4-6	9	2500	0	*	bbcy	bc	c	c
Upper Heyford	1016.4	-4	WNW	2	bc	73	45	8	8	4	6	4-6	4-6	2500	0	*	bbcy	bcy	cctlrbc	c
Ross-on-Wye	1017.8	+6	NW	3	c	67	65	8	5	1	-	9+	10	2500	0	*	bbcy	cyc	crc	c
Hartland Point	1019.9	+4	WNW	2	c	63	92	8	8	4	2	2-3	7-8	2500	0	2	bc	bcc	c	c
Bristol	1018.4	+2	W	4	rr	65	85	6	5	7	-	7-8	9+	1500	0	*	bcz_oby	$bccr_orr$	crr_oc	cbcc
Portland Bill	1018.0	-6	WSW	3	bc	60	85	8	2	-	-	4-6	4-6	4000	0	2	bc	bc	c	c
Plymouth	1019.7	+2	N'W	3	c	65	65	8	1	7	7	Tr	9	4000	0	1	bbc	bbcc	cbcc	cbcc
The Lizard	1020.7	0	W	2	m	62	97	4	5	-	-	10	10	1500	0	1	bbc	cprm	c	cbcc
Scilly (St. Mary's)	1021.2	+2	NW	3	c	67	85	8	8	7	-	7-8	9+	1500	0	1	cir_o	cir_oc	cd_ofc	cbc
Guernsey	1019.2	-4	WNW	4	bc	64	75	9	1	1	1	1	2-3	2500	0	2	bcb	bbc	bccw	cw
Pembroke	1020.7	+2	NNW	4	c	60	92	7	8	-	-	9+	9+	1500	1	1	$bcpr_oc$	pr_ojfc	bcq	bcq
Holyhead	1020.2	+6	NNW	6	S/r	54	92	7	5	1	-	9	10	1500	1	4	$cwir_oc$	r_or_oRRc	cbc	bcc
Chester (Sealand)	1019.1	+10	NW	4	c	61	85	8	8	2	-	7-8	10	800	0	*	bmz_ocybc	bcc	cm_oir	cm_o
Manchester	1018.4	+10	WNW	4	o	61	85	7	5	-	-	10	10	800	0	*	bffmby	bybcc	cir_ocm_o	$cbcm_oc$
Spurn Head	1017.3	0	NE'E	2	m	59	92	4	2	-	-	7-8	7-8	800	0	2	c	ffcm	co	$opid_o$
Catterick	1017.7	+12	N'E	2	c	66	65	7	5	-	-	9+	9+	4000	0	*	$bcbbcz_oy$	bcz_oyc	$bccm_oir_o$	$m_or_or_od_od_o$
Tynemouth	1018.8	+4	E	2	bc	63	85	6	-	3	1	0	4-6	-	0	0	bc	bc	bco	oir_o
St. Abbs Head	1018.6	+14	SE	3	bc	62	75	8	4	4	2	2-3	4-6	2500	0	1	bc	bcc	cq	cq
Leuchars	1018.6	+14	E	3	c	64	75	8	8	3	-	7-8	9	2500	0	*	cbc	bcc	c	c
Renfrew (Abbots I.)	1019.5	+6	NW'W	4	c	60	75	8	7	7	1	1	9+	2500	1	*	$bccz_oir_o$	cm_oiRrc	$cbccid_o$	cid_oc
Eskdalemuir	1019.2	+18	NNE	3	rr	56	85	7	6	-	-	10	10	800	1	*	obcy	oRRrr	oir_oc	c
Point of Ayre	1019.7	+8	NNW	6	c	56	92	7	8	7	-	4-6	9+	1500	1	3	bcc	rrc	bcbc	c
Tiree	1023.5	+18	N'W	4	bc	56	65	8	1	3	-	2-3	2-3	4000	0	4	c	bc	bc	bc
Stornoway	1023.4	+28	WNW	4	c	55	65	8	1	6	1	4-6	7-8	4000	1	2	crr	c	c	c
Dalwhinnie	1021.7	+24	NE	2	ir_o	54	85	7	5	1	-	4-6	10	1500	1	*	bccir	cir	•	cir
Aberdeen	1020.4	+26	NNW	3	c	62	75	8	2	7	-	4-6	9+	1500	0	1	bwby	bbcc	c	cbc
Wick	1020.8	+26	NW	4	rr	53	92	7	6	1	7	7-8	10	800	1	2	bc	r_ocrr	rrcpr	cbc
Lerwick	1019.5	+8	SW	4	c	55	97	7	5	7	-	4-6	7-8	1500	0	*	c	c	cpr	cirbc
Blacksod Point	1026.4	+14	N	4	bc	57	55	8	-	6	-	0	4-6	-	0	3	bc	bc	cbc	cbc
Malin Head	1024.4	+22	N	5	c	55	55	8	6	-	5	2-3	7-8	5700	0	3	c	cyc	c	c
Aldergrove	1022.6	+18	NNW	4	c	58	65	8	5	7	-	4-6	7-8	4000	1	*	ddmRq	cbc	bcc	c
Birr Castle	1023.4	+8	NNW	2	bc	64	55	8	1	8	-	4-6	4-6	4000	1	*	c	bcy	cbc	c
Valentia Obsy. †	1024.5	+10	N'E	4	b	62	65	9	1	-	6	Tr	Tr	4000	0	2	cbc	bcbcc	bc	bcc
Roches Point	1021.9	+12	N	4	bc	66	55	9	1	-	-	2-3	2-3	4000	0	2	irc	bcy	bc Φ	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. Φ lunar halo. ⌂ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

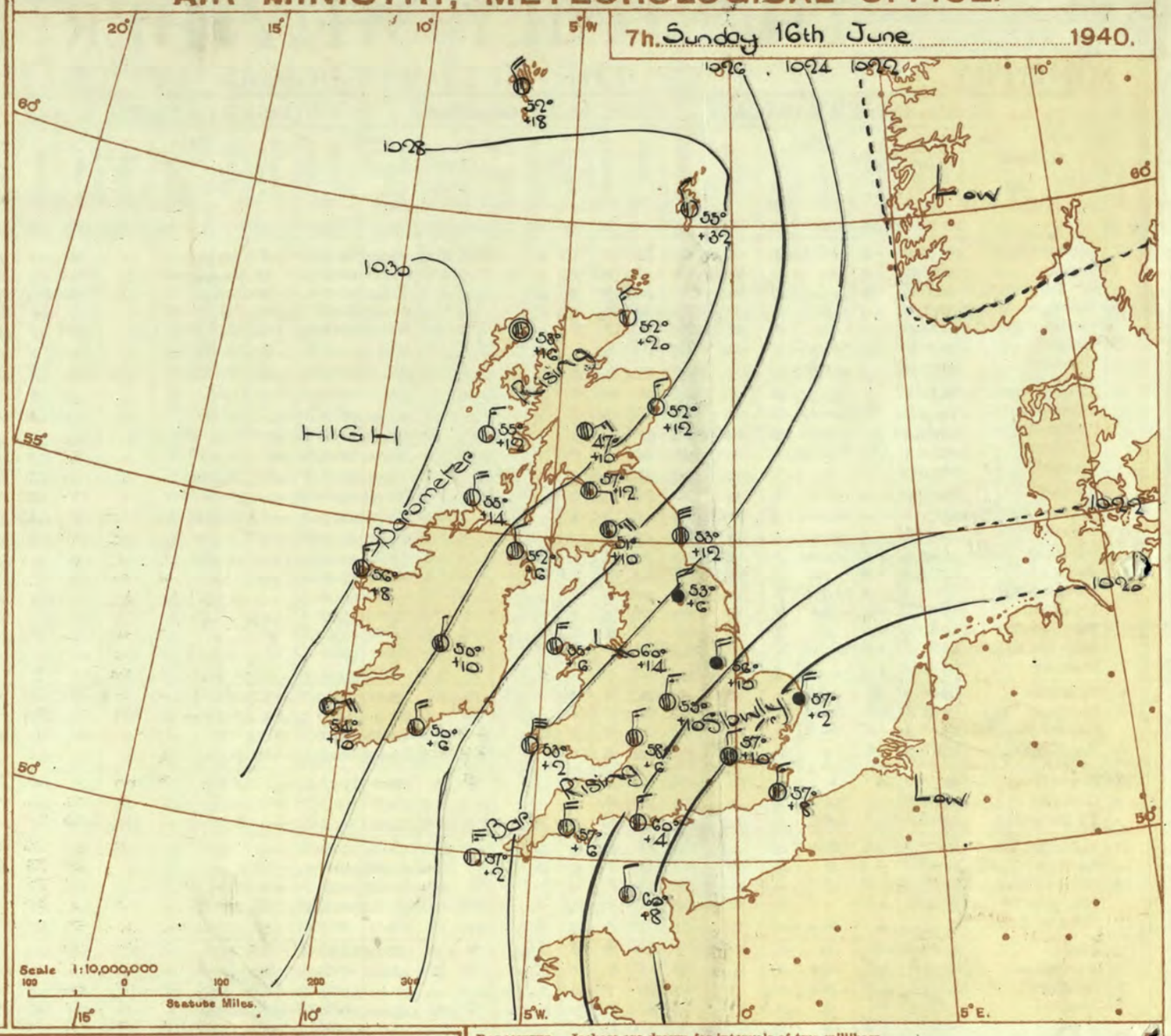
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 16th June 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Freshening northeast wind strong locally on coasts; occasional rain at first; bright intervals later; cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate or fresh north to northeast wind; mainly fair; cool.
9 N. Midlands ... 10 N.E. England	Moderate or fresh north to northeast wind; cloudy with local rain at first; bright periods later; cool.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate northeast wind; fair; cool.
13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate northeast wind, decreasing; fair; average temperature
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 11 - 12

GENERAL INFERENCE.

An anticyclone centred off Northwest Ireland is moving east-northeast and increasing in intensity while pressure is low over Germany. A trough of low pressure extending from West Norway across the Midlands to Southwest England is moving slowly southeast and another over the Southern North Sea is moving southwest. Weather will be fair in the North and West but there will be occasional rain in the East and Southeast.

FURTHER OUTLOOK.

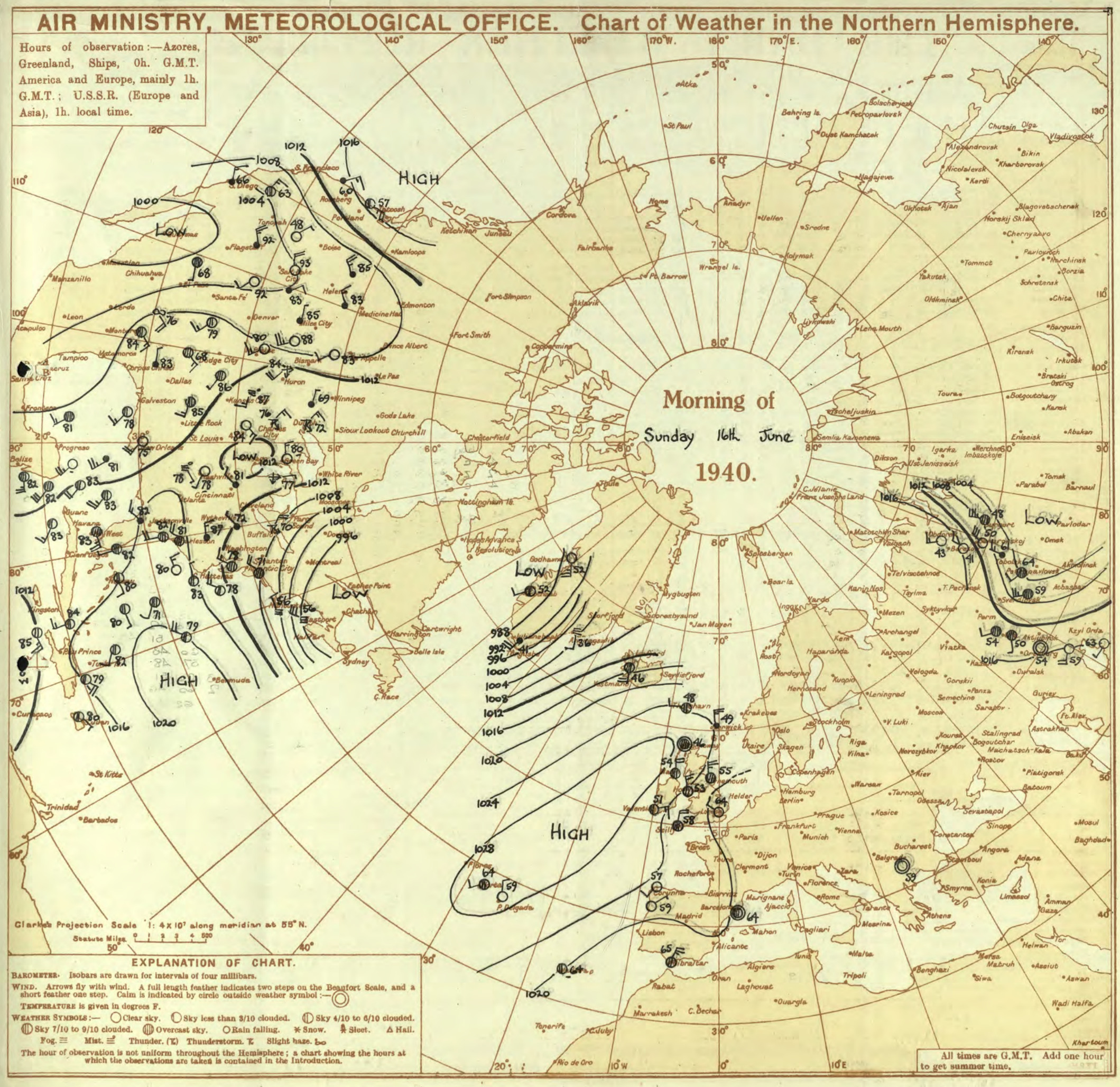
Mainly fair in the North and West; doubtful in the Southeast.

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 16th June 1940.

No. 28696

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

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	1018.0	+2	NW	2	o/r	64	75	6	5	-	-	10	10	1500
	S. Farnborough	226	1018.5	+2	WN	1	z	59	85	6	-	3	-	0	4-6	-
	Boscombe Down	417	1019.4	-2	NW'N	2	c/r	58	92	6	5	2	-	9	10	1500
	Calshot (Sthmtn.)	8	1018.6	0	NW'N	3	z	63	85	6	5	7	-	9	10	4000
	Lympne ...	346	1018.3	0	NW	2	c	58	92	7	5	-	-	10	10	5700
	Manston ...	154	1017.7	0	-	0	bc	59	97	5	5	-	-	10	10	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1018.0	+2	NW	1	z	58	92	6	5	-	-	9+	9+	2500
	Gorleston ...	5	1018.1	+4	NNE	3	id	55	97	4	6	-	-	10	10	1500
	Mildenhall ...	19	1019.0	+6	N	2	c	56	92	7	5	-	-	10	10	1500
	Cranwell ...	240	1020.5	+14	NE	2	z	56	92	6	5	-	-	9+	9+	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1019.6	+2	NNE	2	bc	57	92	7	5	3	-	1	2-3	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022.2	+6	N	4	c	55	85	8	5	4	-	4-6	7-8	2500
	Bristol ...	209	1021.0	+2	NNW	1	c	57	97	7	5	-	-	9+	9+	1500
	Portland Bill ...	32	1018.4	-8	NW	2	c	59	92	8	5	-	-	10	10	4000
	Plymouth ...	82	1021.1	+2	N'W	3	c	60	85	8	5	-	-	9+	9+	1500
	The Lizard ...	240	1022.5	+6	NNW	3	c	57	92	8	8	9	-	7-8	7-8	2500
	Scilly (St. Mary's)	163	1023.4	+8	N'E	3	c	58	92	8	8	7	-	4-6	9	1500
	Guernsey ...	175	1020.3	-4	NW'N	1	c	59	92	7	5	7	8	2-3	9	2500
6	Pembroke ...	142	1022.2	+4	NNE	5	bcq	53	85	8	8	7	-	2-3	4-6	1500
7	Holyhead ...	26	1023.6	+8	N'W	4	bc	53	85	8	5	3	-	2-3	4-6	4000
	Chester (Sealand)	16	1022.0	+8	WNW	4	z	56	85	6	5	-	-	10	10	800
8	Manchester ...	70	1021.3	+14	NW	2	z	58	97	5	5	1	-	9	10	2500
10	Spurn Head ...	29	1020.8	+10	NNE	3	o	55	97	5	5	-	-	10	10	800
	Catterick ...	175	1022.1	+18	NNW	1	ir	58	92	5	5	-	-	10	10	1500
	Tynemouth ...	108	1021.9	+16	N	5	o	55	97	6	5	-	-	10	10	1500
11	St. Abbs Head	280	1023.9	+26	NNW	6	cq	53	85	8	8	2	-	7-8	10	1500
	Leuchars ...	36	1023.5	+8	-	0	c	56	75	8	4	3	-	9	10	1500
12	Renfrew (Abbots I.)	19	1024.5	+16	WSW	1	id	53	85	7	5	-	-	10	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1023.4	+10	N'W	4	bc	54	92	8	2	3	5	Tr	2-3	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1026.4	+12	-	0	c	46	92	7	5	4	-	Tr	7-8	4000
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1024.6	+22	WNW	3	c	47	92	7	8	7	-	4-6	7-8	1500
16	Lerwick ...	156	1023.9	+20	NNW	5	c/pr	49	92	8	8	7	-	7-8	9	1500
17	Blacksod Point	18	1028.5	+2	N	3	c	55	65	8	-	6	-	0	7-8	-
18	Malin Head ...	84	1027.4	+12	N	4	bc	54	65	8	5	6	-	4-6	4-6	5700
	Aldergrove ...	268	1026.4	+12	-	0	c	48	85	8	-	4	1	0	7-8	-
19	Birr Castle ...	173	1027.6	+10	NNW	1	bc	47	85	8	-	1	-	0	2-3	-
20	Valentia Obsy.	30	1027.9	+8	ENE	3	bc	51	75	8	1	-	6	Tr	4-6	4000
	Roches Point	22	1026.3	+10	N	4	bc	55	85	8	-	-	5	0	2-3	-

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

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)	1020.7	+12	N'E	2	c	58	75	7	5	-	-	9+	9+	1500	0	*
	Croydon ...	1019.9	+10	N	2	o/r	57	92	8	5	-	-	10	10	1500	0	*
	S. Farnborough	1020.5	+10	N	2	z	60	85	6	7	-	-	9+	9+	2500	0	*
	Boscombe Down	1020.9	+6	N'W	3	z	59	92	6	8	3	-	4-6	7-8	2500	1	*
	Calshot (Sthmtn.)	1020.0	+10	N'E	2	z	62	85	6	5	3	-	4-6	7-8	7200	0	1
	Lympne ...	1019.2	+8	N	3	c	57	92	8	5	2	-	9+	10	1500	1	§2
	Manston ...	1019.3	+14	NNE	3	dd	56	97	5	6	2	-	9	10	920	1	*
2	Shoeburyness ...	1019.7	+10	N	3	c	58	85	7	5	7	-	9	9+	2500	1	*
	Felixstowe ...	1019.7	+14	N	3	c/r	57	92	7	5	-	-	10	10	1500	1	1
	Gorleston ...	1019.0	+2	NNE	4	dd	57	97	5	6	-	-	10	10	1500	1	2
	Mildenhall ...	1020.5	+10	N	2	c/d	55	97	6	6	-	-	10	10	800	0	*
	Cranwell ...	1022.3	+10	N	2	ir	56	92	6	6	-	-	10	10	800	1	*
3	Birmingham ...	1022.0	+10	NNE	3	c	59	75	6	5	7	-	7-8	9	2500	0	*
	Upper Heyford	1021.1	+6	NE	3	z	59	85	6	5	-	-	9+	9+	800	1	*
4	Ross-on-Wye	1022.1	+6	N	3	c	58	85	6	5	-	-	7-8	7-8	1500	1	*
5	Hartland Point	1023.2	+12	NNE	3	c	55	92	8	8	4	-	7-8	9	2500	0	3
	Bristol ...	1022.3	+8	N	3	c	59	85	7	5	3	-	4-6	7-8	1500	1	*
	Portland Bill ...	1020.7	+4	N	3	c	60	92	8	2	-	-	7-8	9	2500	0	2
	Plymouth ...	1022.3	+6	N'W	4	c	57	85	7	5	-	-	9	9	1500	0	1
	The Lizard ...	1023.2	0	NNW	4	c	55	85	8	8	2	-	9	10	2500	0	3
	Scilly (St. Mary's)	1024.5	+2	N	5	bc	57	75	8	8	4	4	2-3	4-6	2500	0	2
	Guernsey ...	1020.9	+8	NNW	2	c	60	92	7	5	7	8	4-6	7-8	2500	0	2
6	Pembroke ...	1023.8	+2	NNE	6	bcq	53	85	8	8	7	1	2-3	4-6	2500	1	2
7	Holyhead ...	1024.5	+6	N'E	4	c	55	85	7	5	7	-	4-6	10	2500	1	3
	Chester (Sealand)	1023.9	+14	NW'W	2	z	60	85	6	8	-	-	10	10	1500	0	*
8	Manchester ...	1023.4	+14	NNE	4	c	59	85	7	8	3	-	9	9+	2500	0	*
10	Spurn Head ...	1022.7	+14	N	4	o	59	92	5	5	-	-	10	10	800	1	3
	Catterick ...	1024.1	+6	N	4	dd	53	97	6	5	-	-	10	10	450	1	*
	Tynemouth ...	1024.3	+12	N	6	o/r	53	92	6	-	2	-	10	10	1500	1	3
11	St. Abbs Head	1026.0	+2	NNE	4	cq	52	75	8	8	2	-	7-8	10	1500	0	3
	Leuchars ...	1027.8	+16	NNE	2	c	54	75	8	5	3	-	9+	10	2500	0	*
12	Renfrew (Abbots I.)	1027.4	+12	ESE	2	c	57	75	7	5	-	-	10	10	4000	1	*
	Eskdalemuir ...	1026.6	+10	NE	5	c	51	75	8	5	7	-	4-6	7-8	1500	1	*
	Point of Ayre ...	1025.7	+18	E	4	c	56	85	8	5	3	-	4-6	9	2500	0	3
13A	Tiree	1028.4	+12	NNE	3	bc	55	65	8	5	3	-	2-3	4-6	4000	0	3
13B	Stornoway ...	1029.0	+16	-	0	c	53	75	8	5	3	-	2-3	7-8	2500	1	0
15	Dalwhirnie ...	1028.7	+10	NE	3	c	47	85	8	5	-	-	9+	9+	4000	1	*
	Aberdeen ...	1028.2	+12	NNW	3	bc	52	85	8	7	3	1	2-3	4-6	2500	0	1
	Wick ...	1028.6	+20	NW	3	bc	52	85	8	8	4	-	1	2-3	1500	1	1
16	Lerwick ...	1028.1	+32	NW	2	bc	55	75	8	5	4	-	4-6	4-6	1500	1	*
17	Blacksod Point	1030.0	+8	N	3	c	56	65	8	4	5	-	2-3	7-8	4000	0	3
18	Malin Head ...	1028.6	+14	N	4	c	55	75	8	2	-	4	4-6	7-8	5700	0	2
	Aldergrove ...	1027.3	+6	N'W	2	c	52	75	8	5	1	-	2-3	10	2500	1	*
19	Birr Castle ...	1028.6	+10	NNE	1	c	50	85	8	5	-	7	4-6	10	2500	0	*
20	Valentia Obsy.	1029.0	+10	NE'E	4	c	54	65	8	7	-	7	1	10	4000	0	3
	Roches Point	1027.3	+6	N	4	bc	50	85	8	-	-	5	0	4-6	-	0	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 15th. Hrs. (36)
London (Kew)	74	57	56	-	-	11.6
Croydon ...	75	57	50	-	Tr	11.1
S. Farnborough	76	57	53	-	Tr	9.9
Boscombe Down	74	54	51	-	2	11.9
Calshot (Sthmtn.)	73	59	56	-	Tr	10.5
Lympne ...	70	56	55	Tr	1	5.2
Manston ...	70	56	55	-	0.2	4.4
Shoeburyness ...	74	56	56	Tr	3	5.7
Felixstowe ...	68	56	55	0.1	0.3	0.4
Gorleston ...	60	50	49	5	0.5	0.0
Mildenhall ...	68	55	52	-	-	1.5
Cranwell ...	73	55	54	-	1	5.8
Birmingham ...	74	56	53	-	-	11.9
Upper Heyford	76	56	53	-	0.1	*
Ross-on-Wye	75	54	49	-	1	9.4
Hartland Point	65	54	53	-	-	*
Bristol ...	74	55	49	Tr	2	10.1
Portland Bill ...	*			-	-	*
Plymouth ...	64	58	*			
The Lizard ...	59	56	55	-	-	11.8
Scilly (St. Mary's)	65	51	*	Tr	Tr	5.1
Guernsey ...	68	55	*	0.2	0.2	3.2
Pembroke ...	62	51	*	Tr	Tr	3.6
Holyhead ...	59	51	49	5	-	1.0
Chester (Sealand)	70	56	52	-	1	10.4
Manchester ...	73	54	48	-	0.3	10.0
Spurn Head ...	67	53	*	-	0.4	2.3
Catterick ...	73	53	47	-	0.3	10.9
Tynemouth ...	65	52	51	-	0.2	*
St. Abbs Head	65	51	*	-	-	*
Leuchars ...	69	54	53	-	-	6.5
Renfrew (Abbots I.)	73	61	47	4	Tr	5.8
Eskdalemuir ...	73	49	47	12	1	6.3
Point of Ayre ...	65	53	*	7	-	6.4
Tiree	59	52	*	2	-	7.2
Stornoway ...	58	48	*	3	-	2.8
Dalwhirnie ...	68	42	41	2	2	4.0
Aberdeen ...	65	51	49	-	-	12.5
Wick ...	60	48	*	2	0.5	—
Lerwick ...	57	48	*	-	1	*
Blacksod Point	60	51	*	-	-	*
Malin Head ...	60	46	*	2	-	4.4
Aldergrove ...	62	46	39	10	-	2.5
Birr Castle ...	65	43	40	4	-	5.6
Valentia Obsy.	64	49	43	-	-	7.5
Roches Point	68	48	*	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	bccy	cy	cyc	74	57	56	-	-	11.6	*	*	5
Croydon ...	217	bcy bcy	bcy	mairs	75	57	50	-	Tr	11.1	*	*	6
Greenwich (Royal Observatory) ...	149	bc	bcyc	cdrs	75	56	53	-	0.5	9.1	42	94	5
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	75	58	52	0.2			62	93	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*									*
Camden Square ...	110	bc	bc	*	77	57	56	-	0.3	*	*	96	*
Kensington ...	80	bc	bc	*	77	58	57	-	Tr		79	82	*
Hampstead Observatory ...	450	bc	c	or	75	53	51	-	0.3		*	99	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

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

FOREIGN OBSERVATIONS.

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

Past 24 Hours.

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

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 17th. June 1940.

No. 28697.

SECRET

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1021·6	+2	NNE	4	ir₀	62	75	7	5	-	-	10	10	1500
	Croydon ...	1021·3	+2	NW	1	r₀r₀	60	92	5	6	2	-	7-8	10	800
	S. Farnborough	1022·0	+4	N'W	2	gd	61	85	6	5	2	-	7-8	10	1500
	Boscombe Down	1022·3	+8	NE'N	3	z₀	64	65	7	5	7	-	2-3	9+	2500
	Calshot (Soton.)	1021·9	+10	NNE	3	c	64	85	7	5	2	-	9	10	2500
	Lympne ...	1020·4	+2	N'E	4	dd	57	97	5	6	2	-	9	10	450
	Manston ...	1020·6	+6	NNE	4	dr	57	97	6	6	-	-	10	10	220
2	Shoeburyness ...	1020·9	+6	N'E	3	r₀r₀	59	92	6	5	-	-	10	10	1500
	Felixstowe ...	1021·0	+10	NE	4	c	60	85	8	5	7	-	4-6	9+	1500
	Gorleston ...	1021·1	+6	NNE	4	c	60	85	7	2	3	-	2-3	7-8	2500
	Mildenhall ...	1021·8	+6	NNE	4	ir₀	62	75	8	5	1	-	2-3	10	4000
	Cranwell ...	1023·5	+8	NE'N	3	z₀	60	85	6	5	-	-	10	10	1500
3	Birmingham	1023·7	+4	N	3	c	60	75	6	5	-	-	10	10	1500
	Upper Heyford	1022·8	+6	N'E	3	c	62	75	7	5	2	-	7-8	10	800
4	Ross-on-Wye ...	1023·9	+8	N	4	o	61	85	7	5	-	-	10	10	1500
5	Hartland Point	1023·9	+2	NNE	3	c	60	85	7	5	-	9	4-6	7-8	1500
	Bristol	1023·5	+2	NNE	3	id₀	62	75	7	5	-	-	10	10	1500
	Portland Bill ...	1022·2	+10	N	3	c	64	85	7	5	-	-	10	10	4000
	Plymouth ...	1022·9	+4	ENE	3	c	69	65	8	8	-	-	9+	9+	2500
	The Lizard ...	1023·9	+6	N	2	c	67	75	8	8	6	-	7-8	7-8	2500
	Scilly (St.Mary's)	1025·0	0	N	5	bc	61	75	8	6	-	3	2-3	4-6	2500
	Guernsey ...	1021·5	+2	NNE	1	c	64	75	7	5	-	-	9	9	2500
6	Pembroke ...	1025·1	+4	N'E	4	bcq	64	75	8	2	6	1	2-3	4-6	2500
7	Holyhead ...	1026·7	+14	NNE	4	c	57	85	8	5	-	7	9	10	2500
	Chester (Sealand)	1025·6	+6	N'E	2	z₀	62	75	6	5	-	-	10	10	2500
8	Manchester ...	1025·6	+6	NNE	4	c	61	75	7	5	3	-	9	9+	2500
10	Spurn Head ...	1023·4	+4	N'W	4	c	62	85	7	5	-	-	7-8	7-8	800
	Catterick ...	1027·0	+10	N	4	z₀	56	85	6	5	2	-	7-8	10	1500
	Tynemouth ...	1026·1	+6	N	6	o	54	85	6	5	-	-	10	10	1500
11	St. Abbs Head	1028·7	+6	N	3	bc	55	65	8	5	4	2	2-3	4-6	2500
	Leuchars ...	1029·2	+4	E	4	c	60	65	8	5	3	-	4-6	7-8	4000
12	Renfrew (Abbots I.)	1028·4	-2	E'S	2	·c	65	55	9	2	-	6	4-6	7-8	4000
	Eskdalemuir ...	1027·3	+2	NE	4	bc	62	55	8	5	7	-	4-6	4-6	4000
	Point of Ayre ...	1027·7	+6	ENE	3	c	63	75	8	5	4	1	7-8	9	4000
13A	Tiree	1029·7	+2	N	3	bc	59	65	5	-	3	5	0	2-3	-
13B	Stornoway ...	1030·5	+6	ESE	2	c	57	65	8	7	6	9	4-6	7-8	4000
15	Dalwhinnie ...	1029·0	+4	NE	3	c	61	55	8	4	5	1	1	9	4000
	Aberdeen ...	1029·3	+2	NNE	3	bc	60	55	8	7	-	9	4-6	4-6	2500
	Wick	1030·1	+10	NE	2	bc	53	85	8	7	4	5	2-3	4-6	1500
16	Lerwick... ...	1030·0	+10	NE	3	c	56	65	8	5	3	-	4-6	7-8	1500
17	Blacksod Point..	1030·5	+2	NNW	3	bc	61	55	8	-	4	-	0	2-3	-
18	Malin Head ...	1030·2	+6	N	3	bc⊕	57	75	8	2	-	4	2-3	4-6	5700
	Aldergrove ...	1028·4	+6	NW'N	3	c	63	65	9	7	-	7	2-3	10	2500
19	Birr Castle ...	1028·5	-2	NNE	2	bc	65	55	8	1	-	-	4-6	4-6	4000
20	Valentia Obsy. †	1029·6	+2	N'E	4	c	62	65	9	1	7	2	Tr	9	4000
	Roches Point ...	1027·7	+2	N	3	c	64	65	9	1	7	3	Tr	7-8	4000

OBSERVATIONS at 18h. G.M.T. 16th. June — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.—13h. 16th. (37)	Weather 13h.—18h. 16th. (38)	Weather 18h. 16th. to 1h. 17th. (39)	Weather 1h.—7h. 17th. (40)
London (Kew)	1022·0	-2	NNE	4	c	65	55	7	8	-	6	4-6	7-8	2500	1	*	cdDm₀cir₀	cr₀cy	c/c	cid₀cm₀
Croydon	1021·5	-2	N	3	c	64	75	8	8	-	2	2-3	9+	1500	1	*	dDmir₀	r₀sir₀c	cd₀cr₀c	cdddd₀m
S. Farnborough	1022·0	-2	N	4	c	64	75	7	1	3	6	2-3	7-8	2500	1	*	cdd₀id₀	cir₀c	bcir₀cz₀	rd₀d₀id₀c
Boscombe Down	1022·8	+2	N	4	gr	62	75	7	6	7	-	4-6	9+	1500	0	*	cz₀	cz₀ir₀c	cir₀m₀	cm₀
Calshot (Soton.)	1022·0	+2	NNE	3	gr	64	75	7	8	7	-	1	10	2500	0	1	bcm₀c	cir₀	cbcm₀	om₀id₀m
Lympne	1021·3	+2	NNE	4	c	59	76	8	5	5	-	2-3	9	7200	1	§ 2	cm₀d₀d₀r₀	cm₀ddc	bcid₀	cm₀id₀c
Manston	1021·1	+2	NE'N	4	c	59	85	7	5	7	-	4-6	7-8	2500	1	*	ddcid₀	drcid₀c	cr₀r₀cm₀	cm₀om₀
Shoeburyness	1021·7	+2	NE	3	bc	61	75	8	5	3	-	2-3	4-6	2500	1	*	ddcrr	r₀sirc	bccm₀r₀	ir₀id₀m
Felixstowe	1021·3	+2	NNE	4	c	62	65	8	1	7	-	Tr	9+	4000	1	2	oid₀r₀cv	c	cir₀d₀d₀	od₀d₀m₀c
Gorleston	1021·6	-2	NNE	4	gpr	60	85	7	5	-	-	10	10	1500	1	2	otrc	cpr₀	cpr₀c	c
Mildenhall	1022·5	+6	N	4	gr	60	75	8	8	7	-	4-6	9+	2500	1	*	cm₀cir₀	cir₀c	cid₀c	cm₀c
Cranwell	1024·2	+6	NE	2	c	63	55	7	1	3	-	1	9+	2500	0	*	cddm₀	cy	c/c	ccm₀c
Birmingham	1024·9	+4	NNE	3	c	59	75	6	5	-	-	10	10	1500	0	*	c	c	c	c
Upper Heyford	1023·3	0	N'E	3	bc	63	75	7	8	4	-	4-6	4-6	1500	0	*	cm₀c	cbc	cir₀m₀	cir₀m₀d
Ross-on-Wye	1024·3	+4	N'E	3	z₀	60	85	6	5	-	-	10	10	1500	0	*	cop₀o	d₀oz₀	om₀cm₀	cpc
Hartland Point	1024·0	0	N	3	c	60	92	7	8	-	-	7-8	7-8	1500	0	3	c	c	cbc	bcbc
Bristol	1024·1	+4	NNE	3	ir₀	61	85	6	5	-	-	10	10	1500	1	*	cm₀d₀	cd₀m₀	cr₀cbcm	bccm₀
Portland Bill	1022·4	+2	N	3	c	61	92	7	5	-	-	10	10	4000	0	2	c	c	c	oc
Plymouth	1023·3	+2	NE'N	3	z₀	66	65	6	3	-	-	9+	9+	2500	0	1	c	cz₀	cid₀cz₀	bcz₀
The Lizard	1023·7	+2	NNW	4	bc	65	75	8	8	-	-	4-6	4-6	2500	0	2	bcc	cbc	bcc	
Scilly (St.Mary's)	1025·2	0	N	5	c	59	85	7	5	3	3	4-6	7-8	2500	0	3	bccbc	bcc	cbcw	bccm₀
Guernsey	1021·9	+4	NNE	1	c	61	85	7	5	-	-	9+	9+	2500	0	2	cbcc	cbcc	cpr₀	cadd
Pembroke	1025·1	0	NE'N	5	bcq	62	75	7	1	4	-	1	2-3	2500	0	2	bcqz₀	bcz₀q	bcc	bcm₀
Holyhead	1027·1	+2	N	4	bc	57	83	8	5	-	4	2-3	4-6	4000	1	2	c⊕	cbc	bcc	cwbc
Chester (Sealand)	1026·3	+2	NNW	1	z₀	62	75	6	5	-	-	10	10	4000	1	*	cm₀	cm₀ccz₀	cm₀bbcm	bcmm₀c
Manchester	1026·5	+4	NE'N	3	c	61	75	7	5	-	-	7-8	9	2500	0	*	ccz₀c	c	cbc	bcc
Spurn Head	1023·7	0	NNW	5	bc	61	85	7	-	4	1	0	4-6	-	0	3	oc	cbc	co	cr₀c
Catterick	1027·4	+2	N'E	3	c	57	85	7	5	2	-	7-8	10	1500	0	*	d₀d₀r₀cm₀	cm₀c	cid₀m₀	cm₀bcc
Tynemouth	1027·6	+6	N	6	o	54	86	6	5	-	-	10	10	1500	0	3	o	o	oc	c
St. Abbs Head	1029·3	+2	NNE	3	bc	54	85	8	5	4	9	2-3	4-6	2500	0	3	cbc	bc	c	c
Leuchars	1029·6	+2	E	3	bc	58	65	8	-	3	6	0	2-3	-	0	*	cybc	bc	bcbbc	bcc
Renfrew (Abbots I.)	1028·6	+2	E'S	3	bc	66	55	9	1	-	6	Tr	4-6	4000	0	*	cbcy	bcy	bcyc,b	bbccw
Eskdalemuir	1028·2	+4	NE	4	bc	60	55	8	7	7	1	1	2-3	4000	0	*	cbcy	bcy	bcc	cm₀
Point of Ayre	1027·9	0	NW'N	3	bc	61	85	8	-	4	4	0	2-3	-	0	1	c	bc	bbc	bcc
Tiree	1029·6	0	N'W	3	bc	58	75	8	-	-	5	0	2-3	-	0	3	bc	b	bc	bc
Stornoway	1031·1	+2	NE	3	c	54	65	9	5	9	5	4-6	9	2500	0	1	c	c	c	cbc
Dalwhinnie	1029·2	0	NE	5	c	61	45	8	4	-	5	1	9	4000	0	*	c	c	*	c
Aberdeen	1030·2	+2	NE	3	bc	59	55	8	7	-	6	Tr	4-6	4000	0	2	bcbcy	bcbcy	bcyb	bbc
Wick	1031·0	+4	NE	2	c⊕	53	85	8	1	3	6	2-3	9	1500	0	1	bc	bcc	cbcc	cbc
Lerwick	1031·1	+8	NE	3	c	54	75	8	5	7	9	4-6	9	1500	0	*	bcc	c	c	c
Blacksod Point	1030·4	0	N	3	bc	59	65	8	-	4	-	0	2-3	-	0	3	bc	bc	bc	bc
Malin Head	1029·2	0	N'E	4	bc	57	65	8	-	7	4	0	4-6	-	0	2	bc	bc	bc	ccbc
Aldergrove	1028·6	+2	NW'N	3	c	63	55	9	4	7	8	Tr	7-8	2500	1	*	c	ccy	cybbcgw	bbc
Birr Castle	1028·2	-2	NNE	1	c	68	55	8	2	-	5	4-6	9	2500	0	*	cbcy	cy	b	bcc
Valentia Obsy. †	1029·3	-2	N'E	4	c	62	65	9	-	-	2	0	9	-	0	2	c	c/c	cbbw	bwbcwb
Roches Point	1027·2	-2	S'E	2	bc	66	65	9	1	-	5	1	4-6	4000	0	1	cyc	bc	bcb	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). ⸗gale.
⊕ Solar halo. ⦶ lunar halo. ⌂Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

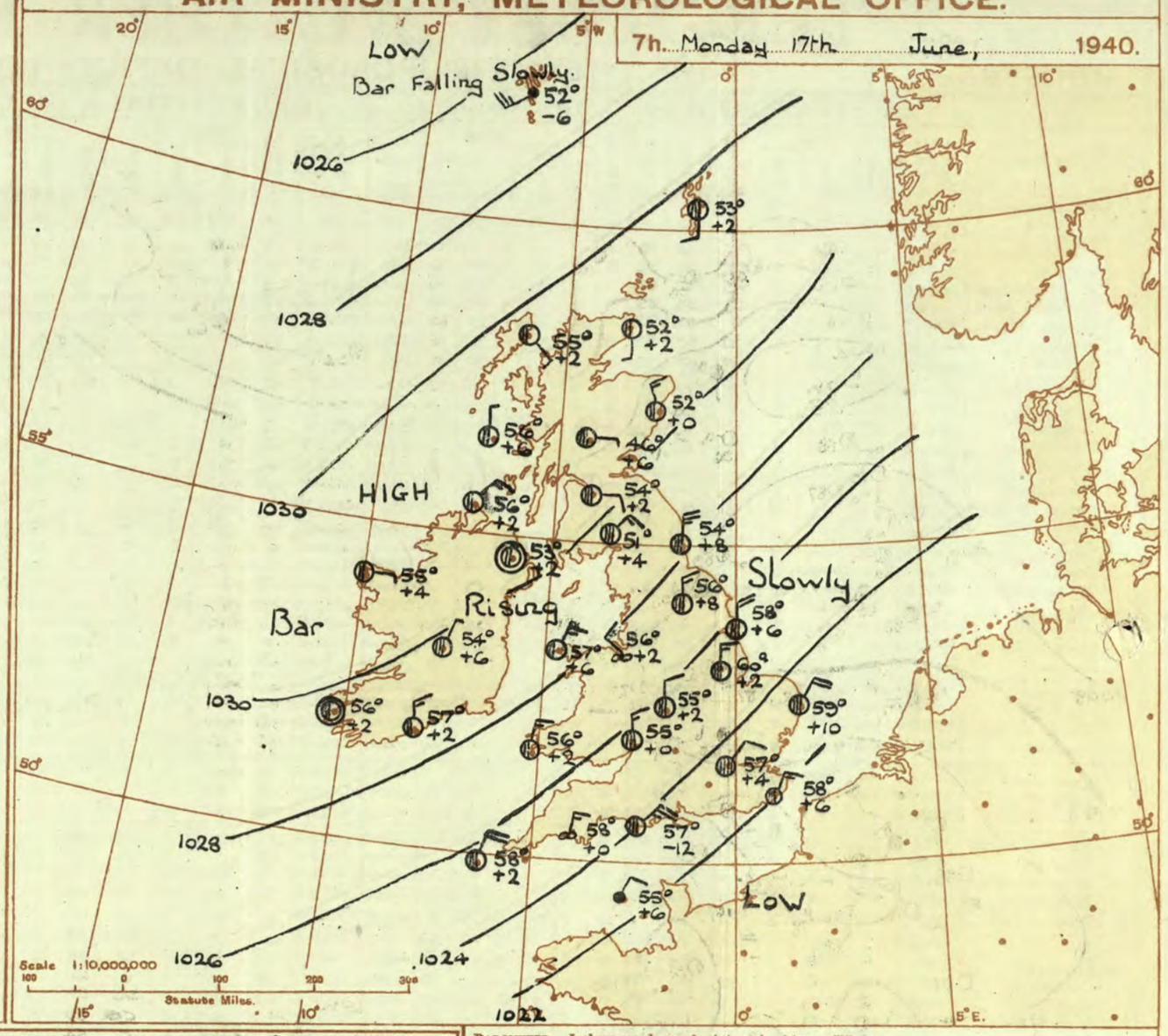
COLUMN 29 —STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 17th June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 17th June, 1940.
1 S.E. England 2 E. England ...	Moderate northeast wind fresh locally on coasts. Bright periods at first becoming cloudy during the night; chance of local showers; average temperature inland; cool on east coast.
3 E. Midlands ... 4 W. Midlands ...	Moderate northeast wind. Bright periods at first becoming cloudy during night; average temperature.
5 S.W. England 6 South Wales ...	Moderate northeast wind fresh locally on coasts. Fair; rather warm during day.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light to moderate northeast wind. Bright periods; average temperature.
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	Light variable winds. Fair or fine; rather warm during day.
16 Orkneys and Shetlands	Light or moderate southwest wind. Fair at first; slight rain later; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 11 - 15.
19 S. E. Ireland 20 S. W. Ireland	Light or moderate northeast wind. Fair; rather warm.

GENERAL INFERENCE.

An elongated anticyclone extends from the Azores across Scotland to Norway while pressure is relatively low over Yugoslavia. Weather will be fair in the North and West. There will be bright periods in the East and Southeast at first except locally near the east coast, but cloudy conditions will develop during the night.

FURTHER OUTLOOK.

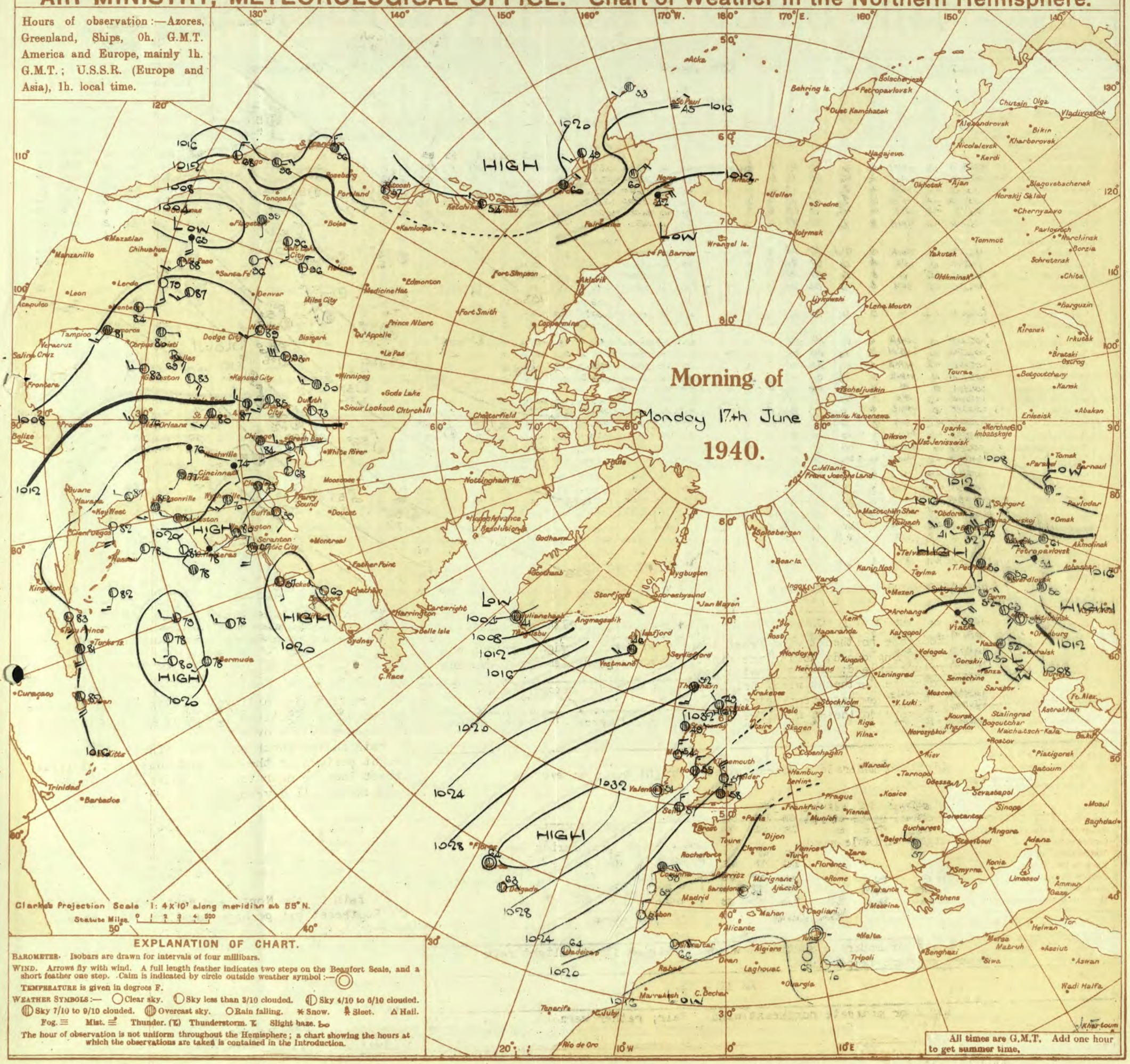
Rain in the North and West, dry at first in the Southeast but perhaps local thundery rain later.

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.



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 17th June, 1940.

No. 28697

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1022·5	-6	NE'N	3	c	58	75	7	5	-	-	10	10	2500
	S. Farnborough	226	1022·8	-6	N	2	iro	59	75	6	5	1	-	10	10	2500
	Boscombe Down	417	1022·9	-2	N'E	4	Zo	56	85	6	5	7	-	7-8	10	2500
	Calshot (Sthmtn.)	8	1022·6	-4	N'W	5	Zo	60	85	6	5	2	-	2-3	10	2500
	Lympne	346	1021·7	-2	N'E	2	ido	55	97	6	5	-	-	10	10	800
	Manston	154	1021·4	-6	NNE	3	Zo	56	97	6	6	-	-	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1021·7	-2	NNE	4	%d	57	97	6	5	-	-	10	10	800
	Gorleston	5	1022·1	0	N'E	4	c	57	92	7	5	-	-	10	10	2500
	Mildenhall	19	1023·1	-2	N	3	c	57	85	7	5	-	-	10	10	1500
	Cranwell	240	1025·5	+2	N'E	3	c	54	92	7	5	-	-	10	10	800
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1024·3	-2	N	5	iro	56	85	6	5	7	-	4-6	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024·9	0	NNE	2	c	57	97	7	4	-	-	2-3	7-8	4000
	Bristol	209	1025·6	0	NE'N	3	Zo	56	85	6	5	3	-	4-6	4-6	2500
	Portland Bill	32	1024·2	-2	NNE	4	o	59	85	7	5	-	-	10	10	2500
	Plymouth	82	1024·5	0	NNE	3	Zo	61	75	6	5	-	-	9+	9+	4000
	The Lizard	240	1025·1	0	N	3	c	58	85	7	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	163	1026·0	-2	N'E	3	bc	57	97	7	5	4	-	2-3	4-6	2500
	Guernsey	175	1022·7	0	NNE	3	c	57	92	6	5	7	-	7-8	9	1500
6	Pembroke	142	1026·3	+2	NE	4	c	55	92	7	5	-	-	9+	9+	1500
7	Holyhead	26	1027·5	-2	NNE	3	c	55	92	8	5	-	-	9+	9+	2500
	Chester (Sealand)	16	1027·6	0	NNW	1	m	51	92	4	5	-	5	2-3	4-6	2500
8	Manchester	70	1027·5	-2	NNE	3	bc	55	85	7	5	-	-	2-3	2-3	4000
10	Spurn Head	29	1024·6	+6	N'W	5	c	57	97	7	5	-	-	9+	9+	800
	Catterick	175	1028·1	-14	N'W	3	Zo	54	92	6	5	-	-	9+	9+	800
	Tynemouth	108	1028·5	0	NNW	6	c	54	92	7	9	-	-	9+	9+	1500
11	St. Abbs Head	280	1030·3	+4	NNE	3	c	52	92	8	5	6	-	4-6	10	2500
	Leuchars	36	1031·4	+6	NNE	1	bc	47	85	8	-	3	6	0	4-6	-
12	Renfrew (Abbots I.)	19	1031·4	+2	NE	1	bc	47	85	7	5	3	-	1	2-3	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1029·4	+4	E'N	4	bc	55	85	8	4	4	4	Tr	4-6	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1030·1	-2	NNW	1	c	49	85	8	5	5	6	2-3	9+	2500
15	Dalwhirnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1031·5	0	NE	1	c	46	97	7	5	7	1	7-8	9+	2500
16	Lerwick	156	1032·2	+2	NW	2	c	49	92	7	5	7	-	7-8	9+	1500
17	Blacksod Point	18	1030·6	0	NE	2	bc	55	85	8	-	4	5	0	4-6	-
18	Malin Head	84	1030·7	0	N'E	3	bc	54	85	8	4	-	-	4-6	4-6	5700
	Aldergrove	268	1030·3	+2	-	0	c	46	92	8	-	4	6	0	7-8	-
19	Birr Castle	173	1029·5	+2	NNE	1	b	51	85	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1029·6	-2	-	0	b	51	92	8	5	-	-	Tr	Tr	4000
	Roches Point	22	1028·6	-2	N	3	b	56	92	8	5	-	-	Tr	Tr	4000

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	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)	1023·1	+6	NNE	3	Zo	58	85	6	5	-	-	10	10	1500	1	*
Croydon	1022·8	+4	NE'N	2	%d	57	92	6	5	-	-	10	10	800	1	*
S. Farnborough	1023·3	+6	N	2	ido	56	92	6	6	-	-	10	10	800	1	*
Boscombe Down	1023·6	-2	N'E	4	Zo	56	85	6	5	2	-	7-8	10	1500	1	*
Calshot (Sthmtn.)	1022·9	+2	N'E	4	Zo	59	85	6	5	-	-	10	10	1500	0	§2
Lympne	1022·1	+6	NNE	3	c	58	92	6	5	-	-	9+	9+	800	1	§2
Manston	1022·4	+10	NE	3	Zo	58	97	5	5	-	-	10	10	220	1	*
Shoeburyness	1022·2	+6	N'E	3	Zo	60	92	6	8	-	-	9+	9+	800	1	*
Felixstowe	1022·7	+10	NNE	3	%d	59	97	6	5	7	-	7-8	9+	450	1	1
Gorleston	1023·3	+10	NE'N	4	c	59	85	7	5	3	-	2-3	7-8	2500	0	2
Mildenhall	1023·6	+8	NE'N	2	c	59	92	7	5	-	-	10	10	800	0	*
Cranwell	1025·6	+2	N	3	c	60	75	7	3	7	-	1	7-8	800	0	
Birmingham	1026·0	+2	N	2	c	55	92	6	5	-	-	10	10	1500	0	*
Upper Heyford	1024·7	+10	NE'N	2	id	56	92	6	5	2	-	9	10	800	1	*
Ross-on-Wye	1025·6	0	N	3	c	55	85	7	5	3	-	9	9+	800	0	*
Hartland Point	1025·2	+2	NNE	3	bc	58	85	7	7	-	-	4-6	4-6	4000	0	2
Bristol	1025·3	0	NNE	3	c	56	85	7	5	-	-	9+	9+	1500	0	*
Portland Bill	1023·0	-12	NE	5	c	57	92	7	5	-	-	10	10	800	0	3
Plymouth	1024·5	0	N'E	3	Zo	58	75	6	5	4	-	4-6	4-6	4000	0	1
The Lizard																
Scilly (St. Mary's)	1025·8	+2	NNE	4	c	58	92	6	5	3	-	4-6	9	2500	0	2
Guernsey	1022·7	+6	NNE	2	dd	55	97	5	5	-	-	10	10	800	1	2
Pembroke	1026·5	+2	N'E	3	bc	56	92	7	5	4	-	2-3	2-3	1500	0	1
Holyhead	1028·1	+6	NNE	3	bc	57	85	8	1	-	2	Tr	4-6	1500	0	2
Chester (Sealand)	1027·9	+2	NW'W	2	c	56	85	6	5	9	9	1	7-8	4000	0	*
Manchester	1027·5	+4	NNE	3	Zo	60	65	6	7	3	1	4-6	7-8	5700	0	
Spurn Head	1025·7	+6	N	4	c	58	92	7	5	4	1	2-3	7-8	1500	1	3
Catterick	1029·0	+8	N	3	c	56	85	7	5	-	-	10	10	800	0	*
Tynemouth	1028·6	+8	N	5	c	54	92	7	8	-	-	9+	9+	2500	0	3
St. Abbs Head	1030·4	+6	NNE	3	c	51	92	8	5	2	-	9	10	1500	0	3
Leuchars	1031·2	+2	NW	1	c	53	75	8	5	7	-	7-8	9+	2500	0	*
Renfrew (Abbots I.)	1031·6	+2	E	2	c	54	75	8	5	3	6	Tr	9+	4000	0	*
Eskdalemuir	1030·3	+4	NE'N	3	c	51	85	6	5	-	-	10	10	800	0	
Point of Ayre	1029·4	+4	NE'E	4	c	55	85	7	5	-	-	9	9+	2500	0	3
Tiree	1030·2	+6	N	1	bc	56	85	8	1	-	5	1	2-3	4000	0	1
Stornoway	1030·2	+2	SE	1	bc	55	75	8	1	4	1	Tr	2-3	2500	0	1
Dalwhirnie	1031·3	+6	E	1	c	46	75	8	-	5	2	0	9+	<150	0	*
Aberdeen	1031·3	0	NNW	3	c	52	85	8	2	-	3	4-6	7-8	2500	0	2
Wick	1031·1	+2	S	1	bc	52	85	8	4	6	4	2-3	4-6	2500	0	1
Lerwick	1031·5	+2	S	2	c	53	85	8	5	7	-	4-6	7-8	2500	0	*
Blacksod Point	1031·0	+4	E	1	bc	55	85	8	-	5	-	0	4-6	-	0	2
Malin Head	1030·6	+2	NE	3	bc	56	85	8	-	-	4	0	4-6	-	0	1
Aldergrove	1030·5	+2	-	0	c	53	85	8	-	3	2	0	9+	-	1	*
Birr Castle	1030·2	+6	NNE	1	c	54	85	8	-	3	-	0	9	-	0	*
Valentia Obsy.	1029·6	+2	-	0	c	56	85	8	-	-	6	0	7-8	-	0	0
Roches Point	1028·9	+2	N	3	bc	57	85	8	-	-	5	0	2-3	-	0	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 16th Hrs. (36)
London (Kew)	65	56	55	1	Tr	1·4
Croydon	65	56	54	2	0·3	1·2
S. Farnborough	65	55	54	1	0·4	1·8
Boscombe Down	65	54	53	Tr	Tr	2·0
Calshot (Sthmtn.)	69	56	56	Tr	Tr	1·4
Lympne	60	55	54	1	0·2	1·0
Manston	61	55	55	2	0·1	0·7
Shoeburyness	64	56	57	4	0·1	1·1
Felixstowe	64	56	56	1	0·2	0·4
Gorleston	62	56	50	1	Tr	0·5
Mildenhall	68	56	56	Tr	-	1·1
Cranwell	67	53	52	0·5	-	1·8
Birmingham	60	52	48	*	-	0·1
Upper Heyford	63	55	52	Tr	Tr	*
Ross-on-Wye	63	53	49	Tr	-	0·3
Hartland Point	62	56	34	-	-	3·8
Bristol	65	54	51	Tr	Tr	1·1
Portland Bill	64	56	*	-	-	
Plymouth	70	56	53	-	-	4·4
The Lizard			*	-		
Scilly (St. Mary's)	61	56		-	-	8·3
Guernsey	66	55	55	-	Tr	7·9
Pembroke	65	52	*	-	-	10·2
Holyhead	61	53	51	-	-	9·5
Chester (Sealand)	66	47	41	-	-	0·5
Manchester	63	50	41	-	-	0·4
Spurn Head	63	56	*	-	0·1	3·0
Catterick	57	52	51	Tr	Tr	0·0
Tynemouth	54	52	50	-	-	*
St. Abbs Head	56	51	*	-	-	*
Leuchars	63	44	31	-	-	7·0
Renfrew (Abbots I.)	69	44	37	-	-	7·7
Eskdalemuir	64	47	43	-	-	6·5
Point of Ayre	64	52	*	-	-	9·0
Tiree	60	52	*	-	-	13·9
Stornoway	58	48	*	-	3	2·0
Dalwhirnie	62	33	29	-	-	8·0
Aberdeen	62	44	40	-	-	12·1
Wick	57	41	*	-	-	*
Lerwick	60	48	*	-	-	10·6
Blacksod Point	62	51	*	-	-	*
Malin Head	58	50	*	-	-	12·0
Aldergrove	65	43	40	-	-	8·3
Birr Castle	70	44	41	-	-	10·3
Valentia Obsy.	63	45	40	-	Tr	14·4
Roches Point	63	54	*	-	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Afternoon	Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
		24 hrs. ended 9h.											
Kew	18	cdDmir	crcd	dcidm	65	56	55	1	Tr	1·4	*	*	6
Croydon	217	dDmir	rrirc	dcrdd	65	56	54	2	0·3	1·2	*	*	6
Greenwich (Royal Observatory)	149	rcro	rorc	c	65	55	54	1	-	1·1	86	87	1
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	66	57	56	1	-	1·2	81	88	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	66	57	55	1	Tr		83	88	*
Camden Square	110	o	bc	*	65	57	55	-	-	*	*	87	*
Kensington	80	cr	cpc	*	66	57	56	1	0·2		59	88	*
Hampstead Observatory	450	pr	bcp	od	63	54	50	1	0·2		*	95	*

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.
<0·1	whole period		

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 16th June Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 17th June Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

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

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

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

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

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

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 18th June 1940.

No. 28698

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	1023·2	-6	NE	3	c	70	55	7	8	-	-	9+	9+	2500
	Croydon	1022·7	-8	ENE	3	c	72	55	7	2	-	-	9+	9+	2500
	S. Farnborough	1023·4	-2	NE'N	3	c	68	65	7	7	1	-	7-8	9+	2500
	Boscombe Down	1023·7	-2	NNE	4	c	66	65	7	5	7	-	4-6	10	2500
	Calshot (Soton.)	1022·8	-4	NNE	3	2_o	67	75	6	5	2	-	4-6	10	2500
	Lympne ...	1022·4	-6	NNE	4	bc	68	65	8	1	3	-	1	4-6	1500
	Manston ...	1022·7	-6	NNE	3	c	64	85	7	1	3	-	1	9+	1500
2	Shoeburyness ...	1023·1	-2	NE	3	c	68	65	8	8	3	-	4-6	9+	4000
	Felixstowe ...	1023·5	+2	NE	4	c	67	55	8	7	3	-	1	9+	2500
	Gorleston ...	1024·4	+4	NE'N	4	bc	61	75	7	-	4	-	0	4-6	-
	Mildenhall ...	1023·9	+2	NE'E	4	c	72	45	8	7	7	-	4-6	7-8	4000
	Cranwell ...	1025·8	-4	NE	5	bc	73	35	8	1	4	1	Tr	2-3	2500
3	Birmingham	1025·2	-8	NE	4	bc	71	45	7	7	4	-	4-6	4-6	2500
	Upper Heyford	1023·8	-6	NE'N	3	c	72	35	8	7	3	-	1	7-8	2500
4	Ross-on-Wye ...	1024·5	-10	NNE	4	c	71	55	7	1	9	1	2-3	7-8	4000
5	Hartland Point	1025·0	-2	NNE	3	c	61	75	7	5	-	-	9+	9+	2500
	Bristol	1024·2	-14	NE'E	3	c	70	65	7	5	-	-	9	9	2500
	Portland Bill ...	1023·2	-6	NE	3	c	60	85	7	5	-	-	10	10	4000
	Plymouth ...	1024·2	-4	NE	3	2_o	65	65	7	8	-	1	9	9+	4000
	The Lizard ...	1024·7	0	-	0	c	47	65	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1025·8	0	N'E	4	c	62	85	6	-	4	4	0	9+	-
	Guernsey ...	1022·8	-2	NE	3	c	58	92	6	5	2	-	7-8	10	1500
6	Pembroke ...	1025·5	-4	NE'N	5	c	64	75	7	-	7	-	0	7-8	-
7	Holyhead ...	1028·3	0	N'E	4	c	58	85	8	-	-	7	0	10	-
	Chester (Sealand)	1027·2	-2	WNW	4	bc	63	75	7	-	4	6	0	4-6	-
8	Manchester ...	1026·7	-6	NE'E	4	bc	73	45	7	1	4	2	1	4-6	4000
10	Spurn Head ...	1026·4	0	N	5	bc	64	75	7	-	8	4	0	2-3	-
	Catterick ...	1029·0	0	NE	3	bc	65	65	7	1	-	2	4-6	4-6	2500
	Tynemouth ...	1029·7	+6	N	4	c	57	85	7	8	-	-	9	9	2500
11	St. Abbs Head	1030·5	-2	NNE	2	c	57	85	8	8	2	-	7-8	10	1500
	Leuchars ...	1031·0	-2	E	3	bc	63	75	8	1	7	9	2-3	2-3	2500
12	Renfrew (Abbots I.)	1029·9	-2	NE'N	2	bc	69	45	9	1	3	1	1	2-3	1000
	Eskdalemuir ...	1029·5	-2	NE	2	bc	63	65	8	7	7	1	2-3	4-6	2500
	Point of Ayre ...	1029·5	0	ENE	3	c	63	75	8	1	-	6	Tr	9+	4000
13A	Tiree	1030·5	0	NNW	2	bc	58	75	8	1	-	5	2-3	4-6	4000
13B	Stornoway ...	1030·3	0	SSE	1	c	59	75	8	1	5	5	Tr	7-8	4000
15	Dalwhinnie ...	1031·0	-2	E	2	c	70	25	8	-	-	5	0	7-8	-
	Aberdeen ...	1030·9	0	ESE	3	bc	59	75	8	7	-	1	2-3	2-3	2500
	Wick	1030·1	-4	S	3	c	56	85	8	5	7	6	4-6	7-8	2500
16	Lerwick... ...	1030·0	-12	W'S	3	bc	56	75	8	5	7	-	4-6	4-6	2500
17	Blacksod Point..	1030·2	-4	N	2	bc	62	65	8	-	4	-	0	2-3	-
	Malin Head ...	1030·8	-4	E	3	bc	57	65	8	5	-	4	2-3	4-6	5700
	Aldergrove ...	1029·6	-6	ENE	2	bc	66	55	8	2	-	8	1	2-3	4000
19	Birr Castle ...	1029·4	-4	S	2	c	70	45	8	1	-	8	4-6	7-8	2500
20	Valentia Obsy. †	1029·1	-6	N	4	b	68	55	9	1	4	-	1	1	4000
	Roches Point ...	1028·3	-4	S	2	c	66	65	8	8	-	5	4-6	7-8	2500

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

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)...	1022·9	+2	NE	4	bc	73	35	8	5	-	-	2-3	4-6	2500	1	*
	Croydon	1022·6	+2	NE'E	2	bc	70	45	8	5	3	-	2-3	4-6	5700	0	*
	S. Farnborough	1022·6	0	ENE	2	bc	72	45	8	2	3	-	2-3	4-6	5700	0	*
	Boscombe Down	1022·4	0	NE'E	3	bc	71	45	9	7	3	-	1	4-6	5700	0	*
	Calshot (Soton.)	1022·1	+2	NE	4	c	71	65	7	5	-	-	9+	9+	4000	0	1
	Lympne ...	1022·4	+2	NNE	4	c	62	55	9	-	3	-	0	7-8	-	0	*
	Manston ...	1022·3	-2	NE'N	4	c	62	65	7	-	3	-	0	9	-	0	*
2	Shoeburyness ...	1022·8	-4	NE	4	c	67	65	8	-	3	-	0	9	-	0	*
	Felixstowe ...	1022·7	0	NE	5	b	66	65	8	-	3	3	0	Tr	-	0	3
	Gorleston ...	1024·1	0	NNE	5	bc	63	75	7	-	4	-	0	2-3	-	0	3
	Mildenhall ...	1024·0	+4	NNE	5	b	73	35	9	-	4	-	0	Tr	-	0	*
	Cranwell ...	1026·3	+4	NE	4	b	68	55	8	-	-	1	0	Tr	-	0	*
3	Birmingham	1025·2	+6	NE	4	bc	72	35	8	-	4	-	0	2-3	-	0	*
	Upper Heyford	1023·7	+6	NE	4	bc	72	45	8	-	3	-	0	2-3	-	0	*
4	Ross-on-Wye ...	1023·8	+4	NE'E	4	b	73	35	8	5	4	1	Tr	1	5700	0	*
5	Hartland Point	1024·5	-4	N	3	c	62	85	8	5	6	-	7-8	7-8	2500	0	2
	Bristol	1023·1	-2	ENE	4	bc	72	45	9	7	3	-	1	4-6	5700	0	*
	Portland Bill ...	1022·4	-4	ENE	3	c	66	85	8	5	-	-	10	10	4000	0	2
	Plymouth ...	1023·3	-2	NE	2	c	69	65	7	5	7	-	4-6	9	4000	0	1
	The Lizard ...	1024·0	-2	NNE	3	c	56	75	8	8	6	-	7-8	7-8	2500	0	2
	Scilly (St. Mary's)	1024·9	+2	N'E	4	c	60	85	7	5	8	4	2-3	7-8	2500	0	2
	Guernsey ...	1022·2	-10	NE'E	2	c	60	85	7	8	1	-	7-8	7-8	2500	1	2
6	Pembroke ...	1025·1	-4	NE'N	5	bc	62	75	7	5	4	-	2-3	4-6	2500	1	2
7	Holyhead ...	1027·7	+2	NNW	2	b	57	85	8	-	-	6	0	1	-	0	1
	Chester (Sealand)	1026·4	-4	WNW	4	bc	65	75	7	2	-	2	2-3	4-6	2500	0	*
8	Manchester ...	1026·1	+2	ENE	4	bc	74	45	7	-	-	6	0	4-6	-	0	*
10	Spurn Head ...	1026·4	0	N'W	5	bc	61	92	7	-	9	4	0	2-3	-	0	4
	Catterick ...	1029·2	+6	NE	3	bc	63	75	7	1	-	-	2-3	2-3	4000	0	*
	Tynemouth ...	1029·9	0	N	3	bc	57	85	8	2	3	1	2-3	4-6	2500	0	2
11	St. Abbs Head	1030·1	-2	NE	1	bc	57	75	8	7	5	2	2-3	4-6	2500	0	1
	Leuchars ...	1030·1	-2	ESE	3	bc	60	75	8	-	9	-	0	2-3	-	0	*
12	Renfrew (Abbots I.)	1028·9	-6	ENE	2	bc	71	45	7	1	-	6	Tr	4-6	4000	0	*
	Eskdalemuir ...	1028·1	-4	E	3	bc	66	65	8	7	-	2	1	2-3	4000	0	*
	Point of Ayre ...	1028·6	-4	NW'N	2	b	64	75	8	-	-	5	0	1	-	0	1
13A	Tiree	1030·1	0	NNW	2	b	58	75	8	-	-	5	0	1	-	0	2
13B	Stornoway ...	1029·9	-2	ENE	2	c	60	65	8	7	5	6	7-8	9+	4000	0	1
15	Dalwhinnie ...	1029·8	-4	N	2	bc	68	35	8	4	-	5	1	4-6	4000	0	*
	Aberdeen ...	1030·4	-2	SE	3	b	57	75	8	-	9	3	0	1	-	0	1
	Wick	1030·0	+2	SSE	3	bc	55	85	8	5	4	8	2-3	4-6	2500	0	1
16	Lerwick... ...	1029·2	+2	SW	4	c	54	85	8	5	7	-	7-8	9	1500	0	*
17	Blacksod Point..	1030·0	-2	N	2	b	62	65	8	-	4	-	0	1	-	0	3
	Malin Head ...	1030·4	-2	E'N	2	b	57	75	8	-	-	-	0	0	-	0	
	Aldergrove ...	1029·0	-2	NE'E	3	bc	69	45	8	4	-	2	Tr	4-6	4000	0	*
19	Birr Castle ...	1028·3	-2	S	1	bc	71	45	8	1	-	4	2-3	2-3	2500	0	*
20	Valentia Obsy. †	1028·4	-2	N	4	b	66	65	9	1	-	-	Tr	Tr	4000	0	2
	Roches Point ...	1027·4	-2	SSW	1	bc	66	75	8	9	-	-	2-3	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)...	cmocy	cybcy	bcyby	bc
	Croydon	cmor_oc	cybcy	bcybybm	bmwbcc
	S. Farnborough	cdom_oc	cbcy	bcyb	bcc
	Boscombe Down	cmo	cy	bm$_o$	bbm$_o$
	Calshot (Soton.)	cmo	cmobcc	cbccb	bbc
	Lympne ...	cmocbc	bcc	bcb	bbc
	Manston ...	pmobcm$_o$	c	bcz$_o$b	bbc
2	Shoeburyness ...	cmoc	cyc	bcz$_o$	bm$_o$b
	Felixstowe ...	cmocy	cwybvy	bvb	bbcv
	Gorleston ...	cpc	bc	bc	bc
	Mildenhall ...	cbcy	cbvy	bybcwm	bcm$_o$wb
	Cranwell ...	c,by	bbcby	bbm$_o$	bm$_o$fbc
3	Birmingham	cbc	bc	b	bz
	Upper Heyford	cddm$_o$c	cbc	b	bcb
4	Ross-on-Wye ...	coz$_o$cbc	cybcy	byb	b
5	Hartland Point	bcc	c	cbcb	bbc
	Bristol	cm$_o$	cybcy	vbcbyb	bcb
	Portland Bill ...	c	c	bc	c
	Plymouth ...	cz$_o$	bcc	bcbz$_o$b	by
	The Lizard ...	bcc	c	bc	bc
	Scilly (St. Mary's)	cbcc	c	cbcw	bcw
	Guernsey ...	oidc	c	cbcb	cbc
6	Pembroke ...	bccq	cbcq	bcb	bc
7	Holyhead ...	wbcc ⊕	cb ⊕	bw	bwb
	Chester (Sealand)	cmobcb	bccbc	bcbm$_o$wm	bwmfFm
8	Manchester ...	cbccz$_o$y	bcy	bz$_o$	bm$_o$z$_o$
10	Spurn Head ...	bc	bc	bcw	bc
	Catterick ...	cz$_o$cbc	bc	bcbm$_o$cm$_o$	bcbm$_o$cm$_o$
	Tynemouth ...	c	cbc	bcc	co
11	St. Abbs Head	c	cbc	bc	com
	Leuchars ...	cbc	bcbbc	bcb	bbc
12	Renfrew (Abbots I.)	cbcy	bcy	bcyb	bfgm$_o$cw
	Eskdalemuir ...	id$_o$cbc	bc	bcb	b
	Point of Ayre ...	c	b	bcbcw	b
13A	Tiree	bc	bcb	b	b
13B	Stornoway ...	cbcc	c	c	c
15	Dalwhinnie ...	bc	bc	bcb	bcb
	Aberdeen ...	bcb	bbcb	bbcb	bbw
	Wick	bcc ⊕	cbc	bc	bccbc
16	Lerwick... ...	c	cbcc	c	c
17	Blacksod Point..	bc	bc	bc	bc
	Malin Head ...	bcc	cbcbc	bc	bc
	Aldergrove ...	cbc	bcy	bbw	bwfgb
19	Birr Castle ...	cy	bcy	b	bbc
20	Valentia Obsy. †	vcby	bcb	bbw	bwb
	Roches Point ...	c	bc	bw	b

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

COLUMNS 12, 13, 26, 27.

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

† Sea disturbance reported from Dungeness.

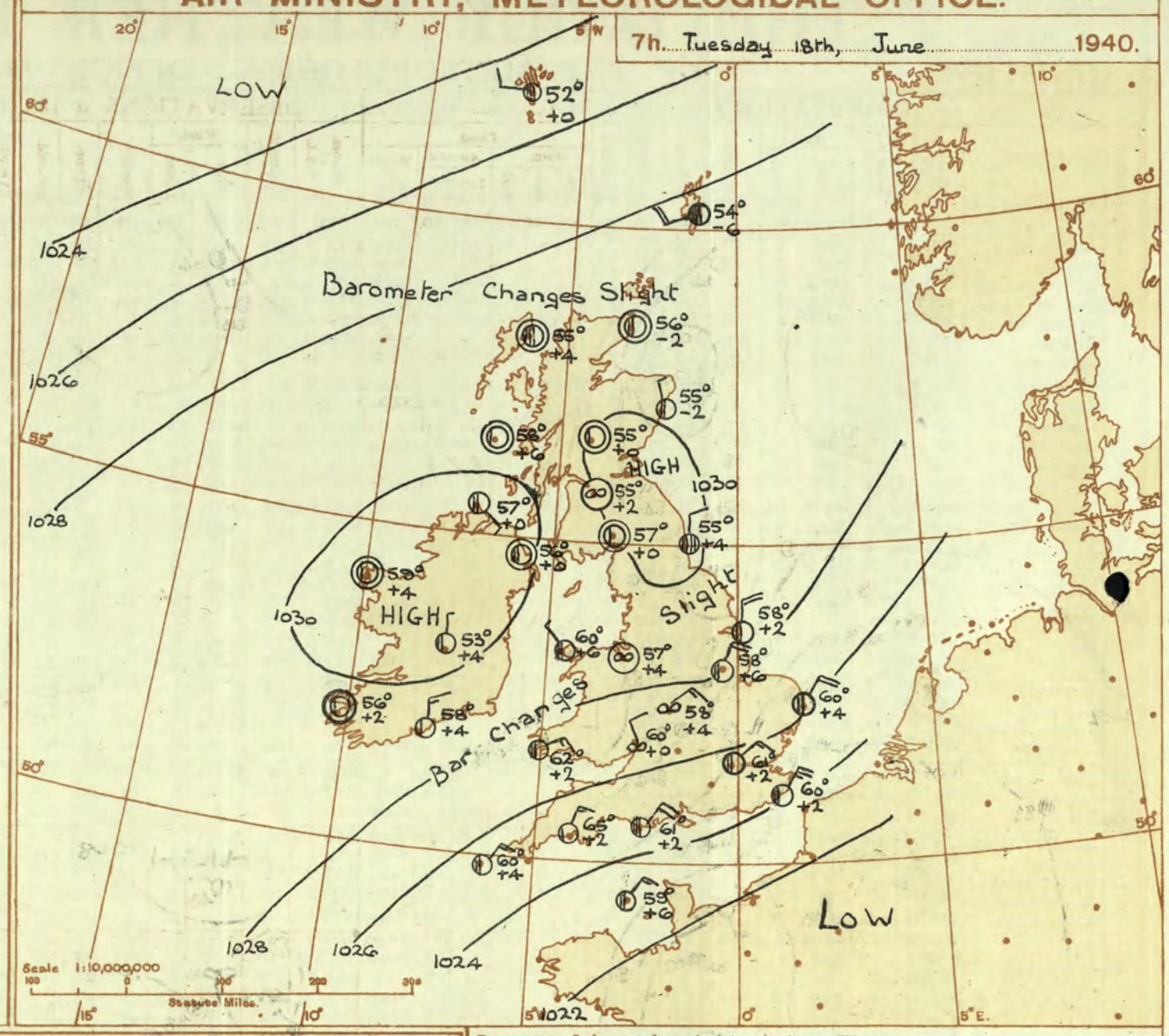
COLUMN 29—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 18th, June 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 18th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Moderate or fresh northeast wind decreasing at night; fair or fine; warm during day except locally near east coast; cool at night;
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light or moderate northeast wind; fair or fine; local fog at night; warm inland during day.
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	Light variable winds; fair or fine; local fog at night; warm during day.
16 Orkneys and Shetlands	Light or moderate southwest winds; mainly fair; local showers; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 11 - 15.

GENERAL INFERENCE.

A belt of high pressure extending from the Azores across Scotland to Norway is moving slowly southwards. Weather will be fair or fine.

FURTHER OUTLOOK.

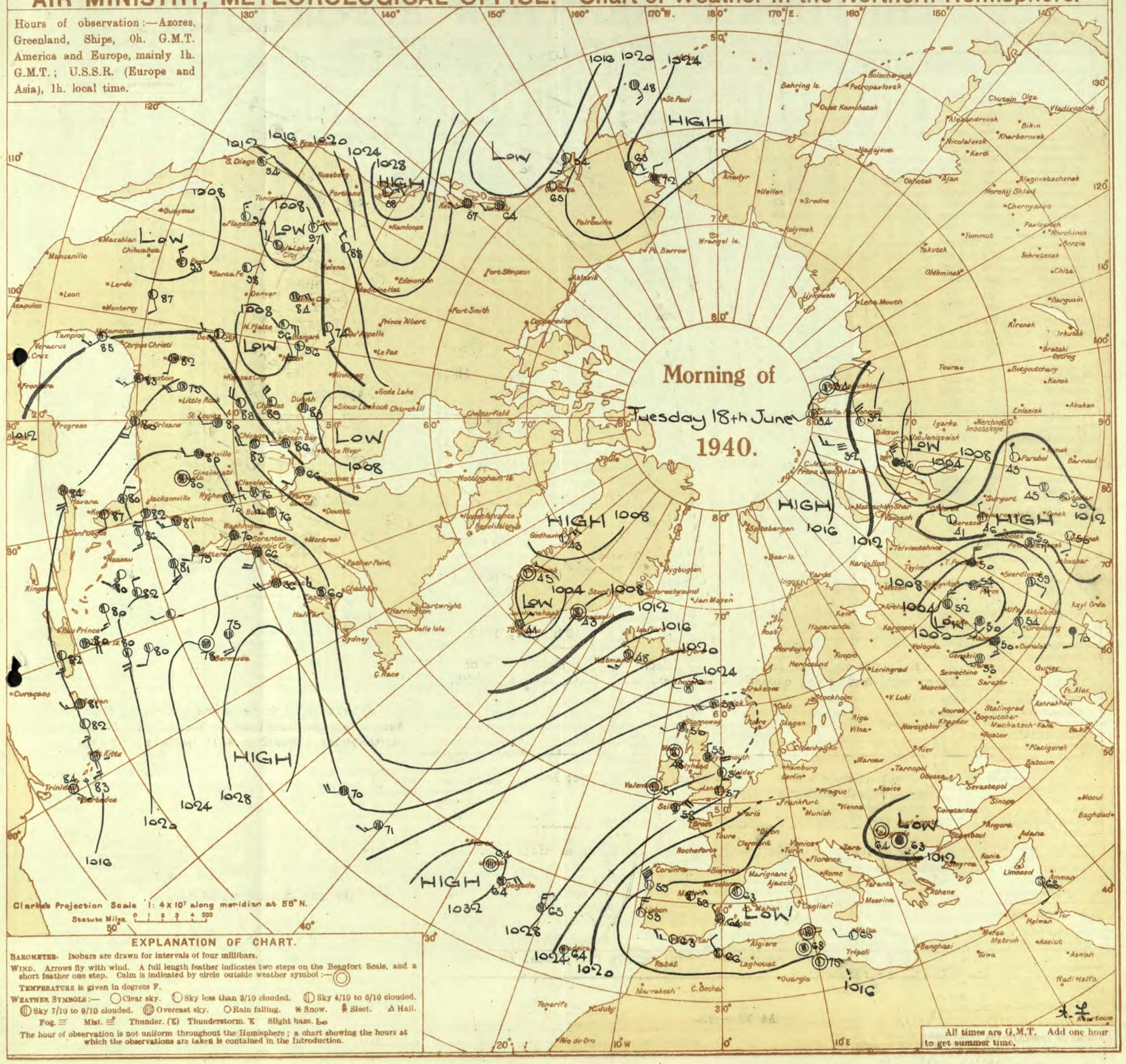
Fair for two or three days.

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.



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 18th June 1940.

No. 28698

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1024·4	+2	NE'N	2	z_0	57	85	6	-	4	1	0	1	-
	S. Farnborough	226	1024·9	+6	N	2	b	56	85	8	-	-	-	0	0	-
	Boscombe Down	417	1025·2	+10	N'E	3	z_0	53	85	6	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1023·7	+6	N'E	2	b	60	85	7	-	-	-	0	0	-
	Lympne ...	346	1023·5	+2	NNE	4	b	54	92	7	-	-	-	0	0	-
	Manston ...	154	1023·3	-2	NE'N	4	b	57	85	7	-	4	-	0	Tr	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1024·1	-2	NNE	3	b	56	85	8	-	-	6	0	1	-
	Gorleston ...	5	1025·0	0	NE	4	b	59	85	7	-	4	-	0	1	-
	Mildenhall ...	19	1025·8	+2	N	3	z_0	51	97	6	-	-	1	0	2-3	-
	Cranwell ...	240	1028·1	+6	NNE	2	z_0	54	92	6	5	-	1	Tr	2-3	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026·3	+6	NNE	3	b	54	92	7	-	4	1	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024·9	0	NE	3	b	58	92	7	-	-	1	0	Tr	-
	Bristol ...	209	1026·0	+6	ENE	3	b	56	65	7	-	4	1	0	1	-
	Portland Bill ...	32	1023·5	+4	NE	3	bc	60	85	8	5	-	-	4-6	4-6	4000
	Plymouth ...	82	1024·0	+2	NW'N	2	bc	62	65	8	5	-	-	2-3	2-3	4000
	The Lizard ...	240	1024·1	0	NNE	3	bc	59	85	8	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1025·2	-2	N'E	4	bc	58	92	7	-	3	-	0	4-6	-
	Guernsey ...	175	1022·6	0	N'E	1	c	58	85	7	5	-	-	9+	9+	2500
6	Pembroke ...	142	1026·5	+4	ENE	4	b	58	85	7	-	3	-	0	1	-
7	Holyhead ...	26	1027·7	-4	-	0	b	55	92	8	-	-	1	0	Tr	-
	Chester (Sealand)	16	1028·5	+6	-	0	m	53	92	4	-	-	-	0	0	-
8	Manchester ...	70	1028·5	+6	NE	2	z_0	57	75	6	-	-	-	0	0	-
10	Spurn Head ...	29	1027·9	0	NW	4	bc	56	97	7	-	4	-	0	2-3	-
	Catterick ...	175	1030·0	-2	NW'N	1	z_0	52	97	6	5	-	-	9	9	800
	Tynemouth ...	108	1029·8	-2	N	2	c	55	85	6	2	-	-	9+	9+	2500
11	St. Abbs Head	280	1030·0	0	S	2	bc	51	97	8	4	4	2	1	2-3	2500
	Leuchars ...	36	1030·4	+2	-	0	bc	48	97	8	5	3	-	Tr	2-3	4000
12	Renfrew (Abbots I.)	19	1030·2	+4	ENE	1	b	52	92	7	5	-	1	Tr	Tr	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1028·9	0	SE'E	1	bc	52	97	8	2	-	2	Tr	2-3	4000
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1029·4	-6	WSW	1	c	50	92	8	5	4	6	2-3	9	4000
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1029·3	-8	SW	1	bc	51	97	7	5	8	1	2-3	4-6	2500
16	Lerwick ...	156	1029·8	+4	WSW	4	c	53	92	8	5	7	-	7-8	9+	1500
17	Blacksod Point	18	1030·4	-2	NE	1	b	56	85	8	-	-	9	0	1	-
18	Malin Head ...	84	1030·4	-2	-	0	bc	48	85	8	5	-	-	2-3	2-3	5700
	Aldergrove ...	268	1030·1	+4	-	0	b	48	92	8	-	-	-	0	0	-
19	Birr Castle ...	173	1029·5	+4	NNE	1	b	51	92	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1029·6	+2	-	0	b	51	92	8	-	-	-	0	0	-
	Roches Point	22	1028·4	+2	N	3	b	57	97	8	-	-	-	0	0	-

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1025·7	+4	NE	4	bc	62	65	7	-	-	6	0	2-3	-	0	*
Croydon	1025·0	+2	NE	3	bc	61	75	7	-	-	5	0	4-6	-	0	*
S. Farnborough	1025·5	0	NNE	2	c	60	65	8	-	-	6	0	7-8	-	0	*
Boscombe Down	1025·6	0	NE'N	3	bc	60	65	8	-	-	5	0	2-3	-	0	*
Calshot (Sthmtn.)	1024·2	+2	N'E	4	c	60	75	7	-	-	6	0	7-8	-	0	1
Lympne	1023·6	+2	NNE	5	bc	60	85	8	1	-	2	Tr	4-6	1500	0	§3
Manston	1024·2	+6	NE'N	5	c	60	85	7	1	-	2	Tr	7-8	2500	0	*
Shoeburyness	1025·0	+4	NE	4	bc	64	75	8	-	5	1	0	2-3	-	0	*
Felixstowe	1025·1	+6	NNE	4	bc	64	65	8	-	8	2	0	4-6	-	0	2
Gorleston	1025·8	+4	NNE	4	bc	60	75	7	-	4	-	0	2-3	-	0	2
Mildenhall	1026·8	+6	NE'N	3	b	60	75	7	-	4	-	0	Tr	-	0	*
Cranwell	1028·7	+6	NNE	4	bc	58	92	7	5	-	-	4-6	4-6	2500	0	*
Birmingham	1028·2	+4	NE	3	z_0	58	75	5	-	-	-	0	0	-	0	*
Upper Heyford	1026·6	+2	NNE	4	b	60	75	8	-	7	-	0	Tr	-	0	*
Ross-on-Wye	1027·2	0	NNW	2	z_0	60	75	6	-	-	1	0	Tr	-	0	*
Hartland Point	1025·6	+6	NE	3	bc	60	75	8	-	-	4	0	2-3	-	0	2
Bristol	1026·9	+2	N'E	2	bc	58	75	7	-	-	2	0	2-3	-	0	*
Portland Bill	1024·1	+2	NE	5	c	61	85	8	2	4	-	4-6	7-8	4000	0	2
Plymouth	1024·7	+2	NNE	3	~~bc~~ b	65	55	8	-	-	2	0	2-3	-	0	1
The Lizard	1024·6	+2	NE	3	bc	62	75	8	8	6	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1025·2	+4	NE	3	bc	60	85	7	5	-	4	Tr	4-6	2500	0	2
Guernsey	1022·9	+6	NE	3	bc	59	85	7	-	1	8	0	2-3	-	1	3
Pembroke	1026·8	+2	NE'E	3	bc	62	65	8	-	7	-	0	2-3	-	0	2
Holyhead	1028·6	+6	NW	1	b	60	75	7	-	-	1	0	1	-	0	0
Chester (Sealand)	1029·0	+4	-	0	z_0	57	92	5	-	-	1	0	Tr	-	0	*
Manchester	1029·0	+2	NE'N	1	z_0	63	55	5	-	4	1	0	1	-	0	*
Spurn Head	1028·6	+2	N	4	bc	58	97	6	-	-	3	0	4-6	-	0	3
Catterick	1030·6	+6	N'W	1	m	53	92	4	5	-	-	10	10	800	0	*
Tynemouth	1030·3	+4	N	2	o	55	85	6	5	-	-	10	10	1500	0	1
St. Abbs Head	1030·2	+2	NW	2	m	53	92	4	5	-	-	10	10	450	1	1
Leuchars	1030·2	+2	-	0	bc	55	85	8	-	4	9	0	2-3	-	0	*
Renfrew (Abbots I.)	1030·7	+2	-	0	z_0	55	85	6	-	-	6	0	9	-	0	*
Eskdalemuir	1029·6	0	-	0	bc	57	85	8	-	-	1	0	2-3	-	0	*
Point of Ayre	1029·4	+6	ENE	2	b	59	92	8	-	-	5	0	1	-	0	1
Tiree	1029·9	+6	-	0	b	58	75	8	-	-	5	0	1	-	0	1
Stornoway	1029·5	+4	-	0	c	55	85	8	5	7	-	7-8	9	4000	0	0
Dalwhirnie	1030·5	0	-	0	b	56	85	8	-	4	2	0	1	-	0	*
Aberdeen	1029·6	-2	NNW	1	bc	55	85	8	-	-	3	0	2-3	-	0	1
Wick	1028·9	-2	-	0	bc	56	75	7	5	3	4	2-3	4-6	2500	0	1
Lerwick	1028·1	-6	WSW	4	c	54	92	8	8	7	-	7-8	9+	1500	0	*
Blacksod Point	1030·4	+4	-	0	bc	59	85	8	-	-	4	0	4-6	-	0	2
Malin Head	1030·1	0	SE	1	bc	57	75	8	2	-	4	2-3	4-6	5700	0	0
Aldergrove	1030·1	0	-	0	bc	56	75	8	-	-	2	0	4-6	-	0	*
Birr Castle	1030·1	+4	N	1	bc	53	92	7	-	-	3	0	2-3	-	0	*
Valentia Obsy.	1029·4	+2	-	0	b	56	85	8	-	-	1	0	Tr	-	0	0
Roches Point	1028·4	+4	N	3	b	58	85	8	-	-	-	0	0	-	0	1

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 17th Hrs. (36)
London (Kew)	74	54	45	-	-	5·0
Croydon	73	54	45	Tr	-	4·6
S. Farnborough	73	48	42	Tr	-	3·7
Boscombe Down	73	51	47	-	-	2·8
Calshot (Sthmtn.)	74	58	50	-	-	1·5
Lympne	69	54	52	-	-	0·4
Manston	66	56	52	-	-	4·7
Shoeburyness	71	53	46	-	-	4·3
Felixstowe	73	55	52	-	-	6·8
Gorleston	64	57	55	-	-	5·6
Mildenhall	76	49	41	-	-	8·7
Cranwell	75	51	51	-	-	12·9
Birmingham	74	53	48	-	-	10·4
Upper Heyford	75	51	47	Tr	-	*
Ross-on-Wye	75	53	45	-	-	8·3
Hartland Point	64	57	54	-	-	8·2
Bristol	74	50	39	-	-	3·3
Portland Bill	67	56	*	-	-	*
Plymouth	71	60	49	-	-	2·8
The Lizard	68	58	*	-	-	8·1
Scilly (St. Mary's)	64	57	*	-	-	11·1
Guernsey	64	56	51	Tr	-	1·7
Pembroke	66	54	*	-	-	10·2
Holyhead	60	53	44	-	-	13·6
Chester (Sealand)	67	46	41	-	-	11·8
Manchester	77	45	40	-	-	12·0
Spurn Head	64	54	*	-	-	12·4
Catterick	66	51	45	-	-	10·8
Tynemouth	58	53	51	-	-	*
St. Abbs Head	58	51	*	-	-	*
Leuchars	64	45	37	-	-	9·9
Renfrew (Abbots I.)	73	45	40	-	-	11·6
Eskdalemuir	70	43	39	Tr	-	8·7
Point of Ayre	65	52	*	-	-	11·8
Tiree	62	48	*	-	-	14·3
Stornoway	62	50	*	-	-	6·3
Dalwhirnie	72	30	32	-	-	10·6
Aberdeen	60	43	38	-	-	9·6
Wick	57	44	*	-	-	*
Lerwick	58	51	*	-	-	8·8
Blacksod Point	63	51	*	-	-	*
Malin Head	60	46	*	-	-	13·8
Aldergrove	69	44	40	-	-	12·6
Birr Castle	73	46	43	-	-	12·8
Valentia Obsy.	70	49	40	-	Tr	14·3
Roches Point	68	54	*	-	-	*

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	cm$_0$c/	c/bc/	bc/bc	74	54	45	-	-	5·0	•	•	7
Croydon	217	cm$_0^r$c	c/bc/	bc/mw	73	54	45	Tr	-	4·6	•	•	7
Greenwich (Royal Observatory)	149	c	cbc/	bbcwb/	73	53	44	-	Tr	5·1	50	44	8
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park)	27	•	•	•	74	55	50	-	-		52	53	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	75	54	51	-	-	5·5	55	53	•
Camden Square	110	c	bc	•	75	54	50	-	-	•	•	47	•
Kensington	80	cbc	bc	•	77	55	51	-	-		37	53	•
Hampstead Observatory	450	c	bc	bc	71	52	50	-	-		•	69	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington.				
Kew Observatory.	20·1	whole period		

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 17th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 18th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											•	•		

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30 — Code for State of Sea.

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

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

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

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

SECRET

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Wednesday 19th June 1940.
No. 28699

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1025.0	-8	NE'E	4	b	75	25	8	1	-	-	1	1	4000
	Croydon ...	1024.4	-6	ENE	4	b	77	35	8	1	-	-	Tr	Tr	4000
	S. Farnborough	1024.4	-10	NE'N	4	b	78	35	8	1	-	-	1	1	4000
	Boscombe Down	1024.7	-4	NE'E	4	bc	77	35	8	1	-	8	Tr	2-3	2500
	Calshot (Soton.)	1023.7	-6	NE	5	b	77	35	8	1	-	1	Tr	Tr	4000
	Lympne ...	1023.9	-2	NNE	6	b	68	55	8	-	-	1	0	Tr	-
	Manston ...	1024.7	-2	NNE	6	b	65	65	7	-	-	1	0	Tr	-
2	Shoeburyness ...	1025.3	-4	NE	5	b	73	45	8	-	-	-	0	0	-
	Felixstowe ...	1025.4	-2	NE	6	b	70	45	8	-	-	-	0	0	-
	Gorleston ...	1026.8	0	NNE	5	bc	63	65	7	-	-	1	0	2-3	-
	Mildenhall ...	1026.4	-10	NE'N	4	b	72	35	9	-	-	3	0	1	-
	Cranwell ...	1027.4	-12	NNE	3	b	74	35	8	-	-	1	0	Tr	-
3	Birmingham	1027.0	-6	NE	3	bc	75	35	8	-	-	1	0	2-3	-
	Upper Heyford	1026.1	-6	NE'N	4	b	75	45	8	-	-	2	0	1	-
4	Ross-on-Wye ...	1026.4	-6	ENE	4	bc	75	35	7	1	-	6	Tr	4-6	4000
5	Hartland Point	1025.5	-6	NNE	3	bc	65	65	8	4	-	4	2-3	4-6	4000
	Bristol ...	1025.5	-10	ENE	4	bc	77	35	8	1	-	2	Tr	2-3	4000
	Portland Bill ...	1024.3	+6	NE	4	bc	69	85	8	5	-	-	4-6	4-6	4000
	Plymouth ...	1024.5	0	E	4	bc	74	35	8	1	4	4	1	2-3	5700
	The Lizard ...	1024.5	-2	ENE	4	bc	72	65	8	7	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1025.1	-6	NE'N	5	bc	65	75	7	5	4	4	2-3	4-6	2500
	Guernsey ...	1022.6	-2	ENE	5	bc	65	75	7	-	3	8	0	4-6	-
6	Pembroke ...	1026.4	-6	NE	4	bc	77	45	7	7	4	-	1	4-6	2500
7	Holyhead ...	1028.3	-6	NW	2	bc	63	85	6	1	-	1	Tr	2-3	2500
	Chester (Sealand)	1027.9	-10	WNW	3	b	73	45	8	-	3	-	0	Tr	-
8	Manchester ...	1027.2	-10	NNW	2	bc	77	35	8	7	4	-	2-3	4-6	4000
10	Spurn Head ...	1028.5	-4	N'E	3	b	65	75	7	-	-	1	0	1	-
	Catterick ...	1028.8	-12	NE	2	z₀	72	45	5	-	-	-	0	0	-
	Tynemouth ...	1029.5	-4	E	3	bc	60	75	8	7	3	2	1	4-6	2500
11	St. Abbs Head	1028.9	-10	SE	2	bc	61	75	7	1	4	5	1	2-3	1500
	Leuchars ...	1028.3	-10	ESE	2	b	72	65	7	1	-	-	1	1	4000
12	Renfrew (Abbots I.)	1028.5	-12	NW'N	3	bc	75	45	8	1	-	1	2-3	2-3	4000
	Eskdalemuir ...	1027.5	-6	-	0	bc	71	45	8	7	-	-	4-6	4-6	4000
	Point of Ayre ...	1029.4	-4	N'W	2	b	65	75	8	2	-	-	Tr	Tr	4000
13A	Tiree ...	1030.0	0	WNW	2	bc	63	65	8	1	-	6	Tr	4-6	4000
13B	Stornoway ...	1028.8	+2	W	3	c	63	75	8	5	4	-	9	9+	1500
15	Dalwhinnie ...	1028.1	-12	NW	2	bc	73	35	8	-	-	6	0	2-3	-
	Aberdeen ...	1028.2	-4	S	2	b	69	55	8	1	4	1	Tr	1	4000
	Wick ...	1029.1	0	SE	1	c	58	85	8	5	6	6	2-3	7-8	2500
16	Lerwick...	1027.8	+2	W	4	c	55	92	8	8	7	-	7-8	10	800
17	Blacksod Point..	1030.4	0	NNW	2	b	65	75	8	2	-	-	1	1	2500
18	Malin Head ...	1030.5	-2	NE	2	bc	57	75	8	1	-	2	1	2-3	5700
	Aldergrove ...	1029.1	-8	NW	1	b	72	55	8	1	-	1	1	1	4000
19	Birr Castle ...	1028.6	-8	N	1	bc	77	45	7	1	-	3	2-3	4-6	4000
20	Valentia Obsy. †	1028.2	-10	N	4	c	74	55	8	1	-	2	Tr	7-8	4000
	Roches Point ...	1028.5	-4	SE	3	bc	68	65	8	1	-	5	1	4-6	4000

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 18th (37)	Weather 13h.–18h. 18th (38)	Weather 18h. 18th to 1h. 19th (39)	Weather 1h.–7h. 19th (40)
London (Kew)	1024.2	-2	ENE	3	b	75	35	8	-	-	1	0	1	-	0	*	bcby	by	by	bwbcy
Croydon	1023.9	-2	NE'E	4	b	74	45	8	-	-	3	0	Tr	-	0	*	bcyby	by	bybbc	bcybcwm
S. Farnborough	1024.0	-2	N'E	4	b	75	35	8	-	-	1	0	Tr	-	0	*	bcby	by	bbcy	bccbcy
Boscombe Down	1023.9	-2	NE	4	b	74	35	8	-	-	1	0	1	-	0	*	bbcy	bcy	b	bbc
Calshot (Soton.)	1022.8	-6	NE'E	4	b	77	35	8	-	-	-	0	0	-	0	2	bcby	bybcby	byb	bbcby
Lympne	1023.8	0	NNE	5	b	63	45	9	-	-	1	0	Tr	-	0	§3	bcbby	by	byb	bbc
Manston	1024.2	-2	NE'N	6	bc	61	65	8	-	-	4	0	2-3	-	0	*	bcb	bcbbc	bcbbc	bcwc
Shoeburyness	1025.0	0	NE	4	b	64	45	8	-	-	3	0	1	-	0	*	bcby	byv	b	bwbc
Felixstowe	1025.0	-2	NE'N	5	b	69	55	8	-	-	2	0	Tr	-	0	3	bcvybvy	bvy	bvyb	bwbc
Gorleston	1026.0	-4	NNE	4	bc	60	75	7	-	-	1	0	2-3	-	0	3	bcq	bcq	bcbbc	bc
Mildenhall	1025.8	-4	NNE	4	bc	68	35	9	-	-	1	0	2-3	-	0	*	bbyv	bbcyv	bcyvb	bcfgwbc
Cranwell	1026.5	-6	NE	3	b	68	55	8	-	-	1	0	Tr	-	0	*	bcby	by	bybbc	bbcm₀c
Birmingham	1025.1	-10	NE	2	bc	74	35	8	-	3	-	0	4-6	-	0	*	bbc	bc	bcb	bbc
Upper Heyford	1025.4	-2	NNE	3	b	72	45	8	-	-	1	0	Tr	-	0	*	by	by	b	bbcm₀c
Ross-on-Wye	1024.4	-8	NE	3	b	75	35	7	7	-	-	1	1	4000	0	*	bz₀bcy	bcyby	bcyb	bcbwc
Hartland Point	1024.3	-6	NNE	3	bc	66	65	8	1	-	3	1	2-3	4000	0	1	bc	bc	bcb	bbc
Bristol	1025.0	0	NE	2	bc	75	45	8	1	3	-	1	2-3	4000	0	*	bbcy	bcby	byb	bbcwcy
Portland Bill	1022.8	-8	NE	3	bc	71	85	8	5	-	-	4-6	4-6	4000	0	2	cbc	bc	bcb	bc
Plymouth	1023.2	-6	E	3	b	77	45	8	1	-	-	1	1	4000	0	1	by	bcyby	byb	bbc
The Lizard	1023.6	-6	-	0	bc	73	45	8	7	-	-	2-3	2-3	4000	0	1	bc	bcy	bc	bc
Scilly (St. Mary's)	1024.7	0	NNE	3	bc	66	75	7	-	4	4	0	4-6	-	0	2	bc	bccbc	bcb	bbc
Guernsey	102:.4	-10	E'N	3	b	69	75	9	-	3	-	0	1	-	0	3	bcc	bcb	b	b
Pembroke	1025.9	-2	NE	4	b	71	45	7	-	1	-	0	Tr	-	0	2	bcy	bcby	bcy	bc
Holyhead	1027.4	-2	NW	2	b	60	75	7	-	-	-	0	0	-	0	1	bwbbc	bcmob	bwcbc	bcwc⊕
Chester (Sealand)	1026.6	-6	NW'W	4	b	70	55	8	-	-	-	0	0	-	0	*	bmob	by	bym₀w	bbcmmw⊕
Manchester	1025.9	-6	NW'W	4	bc	74	45	8	5	-	-	4-6	4-6	5700	0	*	bz₀yby	bcyby	bcybm	bmwbcm
Spurn Head	1027.4	-4	NNE	3	bc	60	75	8	-	-	1	0	2-3	-	0	2	bc	bc	bc	c
Catterick	1028.0	-2	NE'E	1	z₀	69	55	6	-	-	1	0	Tr	-	0	*	ombz₀y	bz₀y	z₀ycm₀w	om₀wcw
Tynemouth	1028.3	-6	ESE	3	bc	60	85	8	-	4	1	0	4-6	-	0	1	obc	bc	bc	bcc
St. Abbs Head	1027.1	-10	SSE	4	bc	60	85	7	-	4	6	0	4-6	-	0	2	mobc	bc	bcy	c
Leuchars	1026.6	-6	ESE	3	c	69	55	8	-	-	4	0	7-8	-	0	*	bcb	b,cbcycy	cycbc	bcc
Renfrew (Abbots I.)	1027.3	-6	NW	3	c	74	35	9	-	-	6	0	9+	-	0	*	by	bbccvy	cvybc	bcbbc
Eskdalemuir	1025.6	-6	SW'W	2	bc	74	55	8	7	-	1	2-3	4-6	2500	0	*	bcy	bcy	bc	bcc
Point of Ayre	1027.9	-6	WNW	3	b	66	75	8	-	-	4	0	1	-	0	2	cbcb	b	bc	cbc
Tiree	1029.2	-2	NW'N	2	bc	61	75	8	1	3	6	Tr	4-6	4000	0	1	bcb	bc	c	cm₀
Stornoway	1028.1	0	W	4	c	61	75	8	5	5	-	4-6	7-8	2500	0	2	c	c	c	c
Dalwhinnie	1027.2	-2	NW	3	c	70	45	8	-	-	7	0	10	-	0	*	bc	bcc	*	bc
Aberdeen	1028.1	+2	ESE	2	cjf	56	85	6	5	3	6	2-3	9+	<150	0	1	bby	byb,c	cz₀c	ccw
Wick	1028.2	-2	NE	2	c	59	75	8	5	6	2	4-6	9	2500	0	1	bcc ⊕	c	c	c
Lerwick	1027.2	-2	W	3	c	57	85	7	8	7	-	7-8	9	800	0	*	c	cpr₀	cpr₀ir₀	cir₀
Blacksod Point	1029.5	-6	NNE	3	bc	63	75	9	-	-	4	0	2-3	-	0	2	bc	bc	b	c
Malin Head	1029.7	-2	NE	2	bc	58	85	8	-	-	2	0	2-3	-	0	0	bc	bc	c	cpr₀c
Aldergrove	1028.3	-2	NNW	3	bc	71	55	8	-	-	1	0	2-3	-	0	*	bcb	bybcy	bcybw	bwc
Birr Castle	1027.4	-2	N	1	bc	78	45	7	1	-	-	2-3	2-3	4000	0	*	bcy	bcy	bc	bc
Valentia Obsy. †	1027.9	-6	NW	4	bc	67	75	8	7	-	-	4-6	4-6	4000	0	2	bbccy	cybbc	cbcbbw	bw
Roches Point	1027.2	-6	S	2	b	68	65	8	1	-	-	1	1	4000	0	1	bc	bcb	bcb	b

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄gale.
⊕ Solar halo. ⊕ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

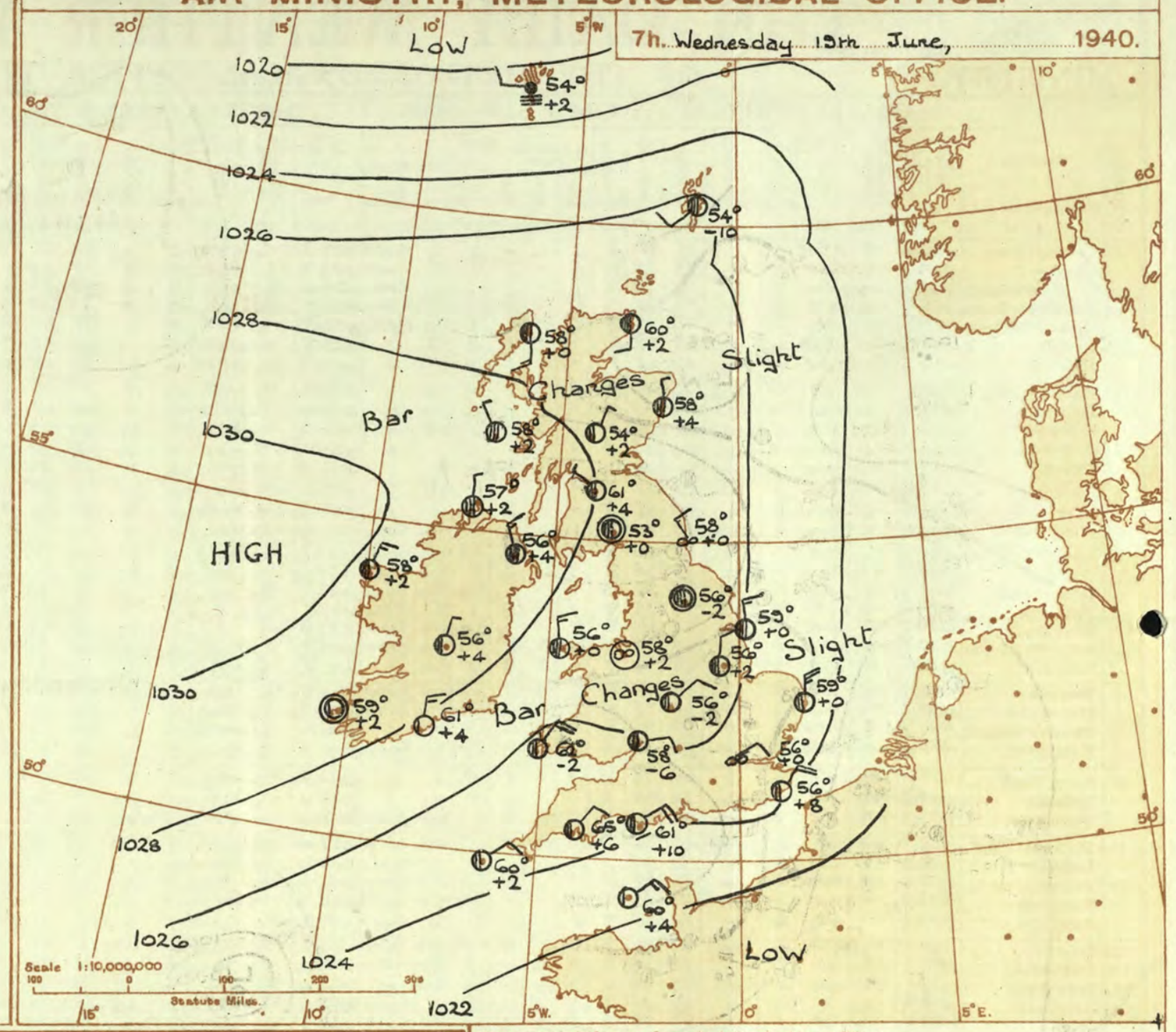
Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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. 19th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind northeast to north moderate inland, fresh at times on East Coast; mainly fine in west of the area, but cloud increasing in east of area, and generally cloudy there to-morrow; warm well inland to-day, otherwise becoming cooler.
5 S.W. England 6 South Wales ... 7 North Wales ...	Wind northeast light to moderate; fine; warm.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light winds, mainly between north and west; fine or fair; some patches of fog on the coast; warm.
13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Wind mainly westerly veering towards northwest, fog and drizzle near the coasts at first, fair inland; then cloudy, some occasional rain; rather warm to-day then becoming cooler.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Winds mainly northerly, light; fine apart from coastal drizzle and fog in the north.

GENERAL INFERENCE.

A large anticyclone extends from the Azores to northwest of Ireland. A feeble trough from Norway to North Scotland will move south over the North Sea and will be followed by another trough associated with a vigorous depression north of Iceland. Weather will continue fair in many districts but there will be some rain and fog near our north and northwest coasts.

FURTHER OUTLOOK.

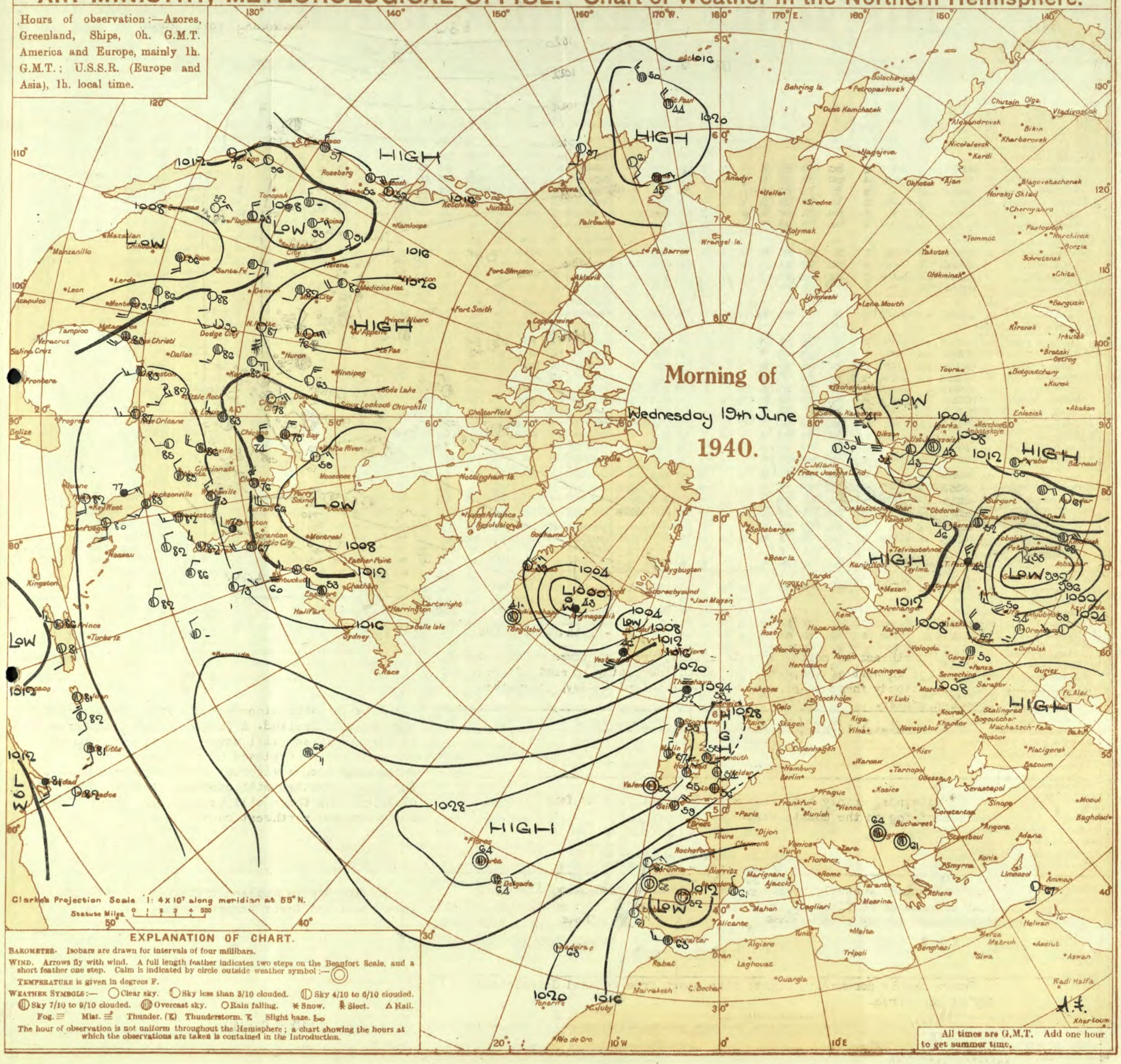
Mainly dry in England and Ireland, but with more cloud and lower temperatures.

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

Wednesday 19th June 1940.

No. 28699.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025·1	−2	NE'N	2	bc	56	55	8	-	5	4	0	4-6	-
	S. Farnborough	226	1025·2	0	N'E	4	bc	56	55	8	-	-	5	0	4-6	-
	Boscombe Down	417	1025·5	+4	-	0	b	54	75	7	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1024·1	+2	N'E	3	b	61	65	8	-	3	1	0	Tr	-
	Lympne ...	346	1024·2	−2	N	3	bc	53	85	8	-	-	4	0	2-3	-
	Manston ...	154	1024·3	−10	NE'N	4	bc	55	85	7	-	-	4	0	4-6	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1025·0	−6	NNE	2	b	52	92	8	-	-	1	0	1	-
	Gorleston ...	5	1025·2	−8	NNE	4	bc	56	85	7	-	4	-	0	2-3	-
	Mildenhall ...	19	1025·7	−6	NE'N	2	bc	43	85	7	-	4	-	0	2-3	-
	Cranwell ...	240	1027·3	−2	-	0	bc⊕	52	92	7	-	-	6	0	4-6	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026·4	−2	NNE	2	b	51	75	8	-	-	1	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024·9	−2	NNE	3	b	62	75	8	-	-	1	0	Tr	-
	Bristol ...	209	1026·2	+4	NE	1	b	58	65	7	-	-	-	0	0	-
	Portland Bill ...	32	1024·0	+4	NE	4	b	64	85	8	-	-	-	0	0	-
	Plymouth ...	82	1024·6	+2	NE'N	2	b	64	65	8	-	-	-	0	0	-
	The Lizard ...	240	1024·3	0	NNE	3	bc	63	65	8	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1025·1	+2	NE'N	4	bc	59	85	8	5	4	-	1	2-3	2500
	Guernsey ...	175	1022·8	+2	NE'E	2	b	57	85	8	-	-	-	0	0	-
6	Pembroke ...	142	1026·3	−2	NE	3	bc	62	55	7	5	4	-	2-3	2-3	2500
7	Holyhead ...	26	1027·5	−2	NNW	2	bc	55	85	8	-	4	1	0	2-3	-
	Chester (Sealand)	16	1027·1	0	-	0	Z_0	55	92	6	-	-	1	0	Tr	-
8	Manchester ...	70	1027·0	+2	ENE	2	m	53	92	4	-	-	-	0	0	-
10	Spurn Head ...	29	1026·8	−6	N	2	bc	54	97	8	-	-	8	0	4-6	-
	Catterick ...	175	1028·2	+2	-	0	Z_0⊕	49	97	6	5	-	8	Tr	9	4000
	Tynemouth ...	108	1027·9	−4	WSW	1	bc	55	92	6	2	3	1	4-6	4-6	2500
11	St. Abbs Head	280	1026·9	−6	SSW	3	bc	59	55	8	4	3	-	2-3	4-6	2500
	Leuchars ...	36	1027·7	−2	-	0	bc	53	92	7	5	-	9	2-3	4-6	4000
12	Renfrew (Abbots I.)	19	1027·8	0	WSW	2	bc	53	75	8	5	3	4	1	4-6	7200
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1027·8	0	WNW	3	bc	52	92	8	-	-	5	0	2-3	-
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1028·4	−2	SW	1	c	55	45	8	5	8	-	4-6	9+	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1027·6	−6	WSW	1	c	56	97	7	5	7	-	7-8	9+	1500
16	Lerwick ...	156	1027·7	0	SW	2	ic	53	97	6	5	2	-	7-8	10	450
17	Blacksod Point	18	1019·4	+2	N	3	b	58	92	8	-	-	-	0	0	-
18	Malin Head ...	84	1029·5	−4	N	1	c	57	85	8	5	-	-	7-8	7-8	5700
	Aldergrove ...	268	1029·0	−4	N'W	2	b	52	92	8	5	-	-	1	1	450
19	Birr Castle ...	173	1028·7	+2	N	1	bc	59	85	8	-	-	5	0	4-6	-
20	Valentia Obsy.	30	1028·7	−2	-	0	b	56	92	8	5	-	-	Tr	Tr	4000
	Roches Point	22	1027·9	+2	N	2	b	61	85	8	5	-	-	Tr	Tr	4000

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1024·9	0	NNE	2	bc	58	55	7	-	4	2	0	4-6	-	0	*
	Croydon ...	1024·8	0	NE'E	2	Z_0	56	75	6	-	8	9	0	4-6	-	0	*
	S. Farnborough	1024·9	0	NE	3	bc	58	55	9	-	3	2	0	4-6	-	0	*
	Boscombe Down	1024·9	−2	NE	2	bc	59	45	8	-	-	5	0	2-3	-	0	*
	Calshot (Sthmtn.)	1024·0	+2	NE	3	b	60	55	8	-	4	1	0	1	-	0	1
	Lympne ...	1024·0	+8	NE'N	4	c	56	85	8	1	-	5	7-8	7-8	1500	0	2
	Manston ...	1023·8	+2	NE'N	5	c	58	85	8	5	-	1	9	9	800	0	*
2	Shoeburyness ...	1024·3	+2	N'E	3	bc	59	75	8	7	4	5	2-3	4-6	2500	0	*
	Felixstowe ...	1024·5	0	NNE	3	bc	57	75	8	5	3	2	Tr	4-6	800	0	2
	Gorleston ...	1024·6	0	N	5	bc	59	85	7	1	-	1	2-3	4-6	2500	0	2
	Mildenhall ...	1025·4	−2	NNE	3	c	57	85	8	1	-	6	Tr	7-8	4000	0	*
	Cranwell ...	1026·7	+2	N	2	c	56	85	7	5	-	2	2-3	7-8	2500	0	*
3	Birmingham ...	1026·5	+2	NE	2	bc	56	65	6	-	-	1	0	2-3	-	0	*
	Upper Heyford	1025·9	−4	NE	3	c	56	85	8	-	-	2	0	7-8	-	0	*
4	Ross-on-Wye	1026·1	−6	E'N	2	bc	58	65	8	-	-	6	0	4-6	-	0	*
5	Hartland Point	1025·8	+2	NE	3	bc	61	85	7	5	-	5	2-3	4-6	2500	0	2
	Bristol ...	1026·0	+2	NE	2	c	57	56	8	-	-	8	0	7-8	-	0	*
	Portland Bill ...	1024·4	+10	NE	4	bc	61	85	8	5	-	-	4-6	4-6	4000	0	3
	Plymouth ...	1024·4	+6	NE'N	2	bc	65	75	8	-	4	2	0	4-6	-	0	1
	The Lizard ...	1024·2	0	NNE	1	bc	64	65	8	7	-	-	2-3	2-3	4000	0	1
	Scilly (St. Mary's)	1024·9	+2	NE	2	bc	60	92	7	-	4	4	0	4-6	-	0	2
	Guernsey ...	1022·6	+4	NE	3	b	60	75	7	-	-	-	0	0	-	0	3
6	Pembroke ...	1025·6	−2	NE'N	4	bc	62	75	7	5	4	-	1	2-3	2500	0	2
7	Holyhead ...	1026·9	0	N'W	3	c	56	92	8	-	-	7	0	10	-	0	2
	Chester (Sealand)	1026·8	+2	-	0	Z_0	58	85	5	-	-	6	0	7-8	-	0	*
8	Manchester ...	1026·6	−2	-	0	Z_0	61	75	5	-	-	2	0	7-8	-	0	*
10	Spurn Head ...	1026·4	0	N'W	3	c	59	85	8	-	5	4	0	7-8	-	0	2
	Catterick ...	1026·9	−2	-	0	c	56	85	7	-	3	2	0	9	-	0	*
	Tynemouth ...	1027·2	0	NW	2	Z_0	58	85	5	8	-	-	9+	9+	2500	0	1
11	St. Abbs Head	1027·2	+4	NW	2	c	55	85	7	5	3	-	4-6	9+	2500	0	1
	Leuchars ...	1027·8	+6	-	0	c	56	85	8	-	3	-	0	9+	-	0	*
12	Renfrew (Abbots I.)	1028·0	+4	NW'W	1	bc	61	65	8	-	3	9	0	4-6	-	0	*
	Eskdalemuir ...	1027·1	0	-	0	c	53	85	7	-	7	-	0	9	-	0	*
	Point of Ayre ...	1027·3	0	WNW	3	bc	59	85	8	-	-	5	0	2-3	-	0	2
13A	Tiree ...	1028·6	+2	NW'N	1	c	58	97	6	5	-	-	9	9	450	0	1
13B	Stornoway ...	1027·9	0	S	3	c	58	92	7	7	5	-	2-3	7-8	4000	0	1
15	Dalwhirnie ...	*	+2	NNE	1	bc	54	85	8	4	3	-	1	2-3	4000	0	*
	Aberdeen ...	1027·7	+4	N'W	1	c	58	85	7	-	9	-	0	9	-	0	0
	Wick ...	1027·0	+2	S	2	c	60	85	8	5	3	1	1	7-8	2500	0	1
16	Lerwick ...	1026·6	−10	SW	2	c	54	92	8	5	7	-	7-8	9+	800	0	*
17	Blacksod Point	1029·6	+2	NNE	3	c	58	92	8	5	-	-	10	10	1500	0	3
18	Malin Head ...	1029·1	+2	N	1		57	97	6	8	-	-	9+	9+	2500	0	0
	Aldergrove ...	1028·8	+4	NNW	3	c	56	85	8	5	-	-	9+	9+	800	0	*
19	Birr Castle ...	1028·7	+4	NNE	1	bc	56	85	8	-	-	3	0	4-6	-	0	*
20	Valentia Obsy.	1028·1	+2	-	0	b	59	92	8	-	-	1	0	Tr	-	0	0
	Roches Point	1027·4	+4	N	3	b	61	85	8	-	-	5	0	1	-	0	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 18h. Hrs. (36)
1	London (Kew)	77	50	43	-	-	15·2
	Croydon ...	79	51	39	-	-	14·9
	S. Farnborough	80	48	39	-	-	15·3
	Boscombe Down	78	47	39	-	-	13·9
	Calshot (Sthmtn.)	80	48	48	-	-	14·8
	Lympne ...	70	51	49	-	-	14·7
	Manston ...	66	54	50	-	-	15·1
2	Shoeburyness ...	74	48	41	-	-	13·8
	Felixstowe ...	73	50	47	-	-	14·8
	Gorleston ...	68	52	51	-	-	14·9
	Mildenhall ...	74	43	32	-	-	15·4
	Cranwell ...	(74)	49	47	-	-	14·1
3	Birmingham ...	76	51	45	*	-	12·5
	Upper Heyford	76	46	41	-	-	*
4	Ross-on-Wye	77	50	43	-	-	13·4
5	Hartland Point	68	56	55	-	-	13·8
	Bristol ...	79	51	39	-	-	14·2
	Portland Bill ...	71	60	*	-	-	*
	Plymouth ...	78	60	47	-	-	14·5
	The Lizard ...	73	61	*	-	-	14·3
	Scilly (St. Mary's)	68	53	*	-	-	13·8
	Guernsey ...	67	56	50	-	-	15·1
6	Pembroke ...	78	57	*	-	-	14·9
7	Holyhead ...	65	53	49	-	-	13·9
	Chester (Sealand)	76	51	45	-	-	13·8
8	Manchester ...	79	51	45	-	-	13·0
10	Spurn Head ...	65	52	*	-	-	15·8
	Catterick ...	73	46	41	-	-	11·7
	Tynemouth ...	62	52	49	-	-	*
11	St. Abbs Head	63	52	*	-	-	*
	Leuchars ...	73	51	43	-	-	13·0
12	Renfrew (Abbots I.)	77	47	41	-	-	13·5
	Eskdalemuir ...	78	46	40	-	-	12·5
	Point of Ayre ...	69	50	*	-	-	14·5
13A	Tiree ...	64	56	*	-	-	14·2
13B	Stornoway ...	64	54	*	-	-	1·1
15	Dalwhirnie ...	75	42	37	-	-	12·0
	Aberdeen ...	69	50	46	-	-	12·6
	Wick ...	59	54	*	-	*	*
16	Lerwick ...	58	52	*	Tr	Tr	0·2
17	Blacksod Point	66	54	*	-	-	*
18	Malin Head ...	59	54	*	-	Tr	15·7
	Aldergrove ...	74	51	44	-	-	15·3
19	Birr Castle ...	79	48	46	-	-	13·8
20	Valentia Obsy.	74	52	46	-	Tr	13·4
	Roches Point	70	58	*	-	-	*

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	bcby	by	bybwby	77	50	43	-	-	15·2	*	*	8
Croydon ...	217	bcyby	by	bcybwm	79	51	39	-	-	14·9	*	*	7
Greenwich (Royal Observatory) ...	149	by	by	bcy	77	49	38	-	-	15·4	28	40	8
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	79	52	47	-	-	15·0	38	55	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	79	50	47	-	-	14·5	31	46	*
Camden Square ...	110			*	80	50	45	-	-	*	*	48	*
Kensington ...	60	bc	bc	*	80	50	45	-	-		36	45	*
Hampstead Observatory ...	450	bcb	b		80	51	46	-	-		*		*

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

South Kensington. Max.	Time.	Min.	Time.

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

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 18th June. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 19th June. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...														

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Thursday 20th June 1940.

No. 28700

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1023·4	-8	NE	4	c	71	45	8	1	7	6	4-6	9	4000
	Croydon	1023·2	-6	NE'E	3	c	71	55	8	1	3	6	1	9+	4000
	S. Farnborough	1023·4	-6	NNE	4	c	71	35	8	-	7	9	0	9	-
	Boscombe Down	1023·3	-10	NNE	4	c	71	35	8	-	3	8	0	7-8	-
	Calshot (Soton.)	1022·5	-10	NNE	4	bc	76	35	8	-	3	6	0	4-6	-
	Lympne	1023·0	-2	NNE	4	c	64	65	8	1	7	-	4-6	9+	2500
	Manston	1023·5	-4	NNE	5	ir₀	60	85	7	5	3	6	4-6	9+	800
2	Shoeburyness	1023·8	-6	NE'E	5	c	65	75	8	-	7	8	0	9+	-
	Felixstowe	1023·8	-2	NE'N	4	c/r	65	55	8	-	7	7	0	9+	-
	Gorleston	1024·5	0	NNE	4	c	60	75	7	5	7	-	4-6	9	4000
	Mildenhall	1024·4	-2	NE'N	4	c	69	35	9	7	9	7	Tr	9+	4000
	Cranwell	1025·3	-6	NNE	3	bc	73	35	8	-	-	9	0	2-3	-
3	Birmingham	1025·1	-6	NNE	3	c	70	25	8	-	7	-	0	7-8	-
	Upper Heyford	1024·6	-6	NNE	3	bc	71	45	8	-	4	9	0	4-6	-
4	Ross-on-Wye	1024·5	-8	N'E	3	bc	72	35	7	-	4	2	0	2-3	-
5	Hartland Point	1024·2	-6	NNE	3	c	65	55	7	-	-	3	0	9+	-
	Bristol	1024·3	-10	NNE	3	bc	71	25	8	-	4	9	0	4-6	-
	Portland Bill	1022·8	-10	NE	3	bc	72	85	8	2	4	-	4-6	4-6	4000
	Plymouth	1023·8	0	SSW	3	c	68	45	8	-	4	2	0	7-8	-
	The Lizard	1023·8	+4	-	0	bc	71	65	8	8	6	-	4-6	4-6	4000
	Scilly (St. Mary's)	1024·8	0	NE'N	4	bc	66	75	6	-	4	3	0	4-6	-
	Guernsey	1022·3	+2	NE'E	5	c	63	65	8	-	7	8	0	7-8	-
6	Pembroke	1024·8	-8	NNE	4	bc	67	65	8	2	7	2	2-3	4-6	4000
7	Holyhead	1026·7	-2	NNW	3	c	59	85	7	-	3	9	0	9+	-
	Chester (Sealand)	1025·5	-6	WNW	3	z₀	68	65	6	-	7	-	0	9	-
8	Manchester	1024·9	-14	N'E	2	c	78	25	7	-	3	2	0	7-8	-
10	Spurn Head	1025·8	0	N'E	3	c	67	65	7	-	5	-	0	9	-
	Catterick	1025·2	-8	NE'N	1	z₀	75	35	6	-	3	-	0	4-6	-
	Tynemouth	1026·8	0	NE	3	bc	62	85	6	5	3	-	2-3	4-6	2500
11	St. Abbs Head	1028·1	+8	NW	2	bc	58	85	8	4	4	1	2-3	4-6	2500
	Leuchars	1026·9	-4	E	2	bc	71	45	8	1	4	-	Tr	2-3	4000
12	Renfrew (Abbots I.)	1026·4	-10	NW'N	2	bc	80	45	9	1	3	9	Tr	4-6	4000
	Eskdalemuir	1024·8	-4	NE'N	2	bc	75	45	8	1	7	-	2-3	4-6	4000
	Point of Ayre	1026·8	-4	NW'W	4	c	64	75	8	5	3	9	2-3	9	4000
13A	Tiree	1028·6	0	WNW	2	bc	64	75	8	5	3	5	1	4-6	2500
13B	Stornoway	1027·3	0	W	4	pr	63	85	8	5	7	-	7-8	10	2500
15	Dalwhinnie	1027·2	-2	N	4	c	69	55	8	4	6	-	4-6	7-8	4000
	Aberdeen	1027·2	+2	SE	3	bc	64	55	8	1	4	-	2-3	2-3	4000
	Wick	1026·4	-4	S	1	c	63	85	8	4	6	1	4-6	9	1500
16	Lerwick	1024·5	-12	WSW	4	c	58	92	8	5	7	-	4-6	10	800
17	Blacksod Point	1029·9	0	NNW	2	c	65	85	8	1	4	-	2-3	7-8	2500
18	Malin Head	1029·3	+2	N	1	cjf	60	92	7	5	8	2	4-6	7-8	4000
	Aldergrove	1027·6	-8	NNW	4	b	67	75	9	1	4	-	Tr	1	2500
19	Birr Castle	1027·4	-8	NNE	1	bc	76	45	8	-	-	3	0	2-3	-
20	Valentia Obsy. †	1027·3	-8	NW	5	bc	70	75	8	-	6	6	0	4-6	-
	Roches Point	1026·3	-8	S	2	bc	72	65	8	1	-	5	2-3	4-6	4000

OBSERVATIONS at 18h. G.M.T. 19th June — 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. 19th (37)	Weather 13h.–18h. 19th (38)	Weather 18h. 19th to 1h. 20th (39)	Weather 1h.–7h. 20th (40)
London (Kew)	1021·9	-8	NE	3	c	70	35	8	5	3	8	4-6	9+	2500	0	*	bccy ⊕cy	cy	cy	c
Croydon	1021·8	-10	NE'E	2	c	68	45	8	-	3	2	0	9	-	0	*	bccy	cyv	cyvcbcc	c
S. Farnborough	1021·6	-6	NNE	4	c	72	35	9	1	7	6	Tr	9	4000	0	*	bcc ⊕	cy ⊕	cbcyc	cbcc
Boscombe Down	1022·2	-2	NE'N	4	c	71	45	8	5	4	8	1	9	4000	0	*	bccy	cy	c	c
Calshot (Soton.)	1021·3	-8	NE	4	c	75	55	8	4	7	9	4-6	9	4000	0	1	bcy ⊕	bcycy	cybc	cbcc
Lympne	1022·3	+2	NNE	4	c	58	85	8	5	7	2	1	9	1500	0	§3	bcc	cbcc	cbcc	cbcb
Manston	1022·3	-4	NE		c	58	85	7	6	7	2	7-8	9+	800	0	*	bcmybcz₀y	cir₀c	c	c
Shoeburyness	1022·6	-6	NE	4	c	61	85	8	-	7	-	0	9+	-	0	*	bcc	ir₀cbc	cbccm₀	c
Felixstowe	1023·0	0	NE	4	c	62	75	8	1	7	8	Tr	9+	2500	0	3	cvcir₀cy	cyc	c	c, id₀
Gorleston	1023·3	-2	NNE	5	c	58	85	7	5	3	-	4-6	9	2500	0	2	bcc	c	cbccq	cq
Mildenhall	1023·2	-6	NE	4	c	65	55	9	5	7	-	1	9	4000	0	*	bcwcyv	cyv	cyvc	c
Cranwell	1024·2	-6	NE	3	bc	68	35	8	-	3	1	0	2-3	-	0	*	cbcy	bcy	bcbc	bcdodom₀
Birmingham	1023·4	-10	NE	2	bc	72	35	8	-	3	9	0	4-6	-	0	*	bc	cbc	bcb	b,c
Upper Heyford	1023·1	-6	NE	3	bc	70	45	8	1	4	8	Tr	4-6	4000	0	*	cybcy	bcyb	bcbbcc	cbcc
Ross-on-Wye	1022·8	-12	NE	3	bc	73	45	7	-	9	-	0	4-6	-	0	*	bccybcy	bcy	bcybz₀bc	bbcc
Hartland Point	1023·1	0	E	1	c	63	65	7	-	4	3	4-6	7-8	5700	0	1	bccy	c	cbc	bc
Bristol	1022·7	-6	NNE	3	c	73	45	8	1	9	-	Tr	9	4000	0	*	cbcw	bcy	cybcc	bcb
Portland Bill	1021·7	-10	SE	3	c	62	85	8	2	4	1	7-8	9	4000	0	2	bc	c	c	bcc
Plymouth	1022·0	-2	-	0	c	66	45	8	-	3	8	0	9+	-	0	1	bcy	cy	cybcy	cybc
The Lizard	1023·8	-4	-	0	c	66	65	8	8	6	-	7-8	7-8	2500	0	1	bc	bcc	cbccy	bc
Scilly (St. Mary's)	1023·4	-4	NNE	3	c	63	75	7	-	8	3	0	7-8	-	0	2	bc	bcc	cw	cw
Guernsey	1021·0	-6	NE'E	3	c	62	65	7	-	7	8	0	7-8	-	0	3	bbcc	cbcc	c	cbc
Pembroke	1024·0	-6	NNE	4	c	64	75	7	8	6	-	7-8	9+	2500	0	1	bc	bcc	bc	bcc
Holyhead	1025·3	-2	NW'N	3	c	58	85	8	-	3	6	0	7-8	-	0	2	wcbcc ⊕	cbcc	cbwc	cbc
Chester (Sealand)	1024·3	-6	WNW	3	c	64	75	7	5	3	-	2-3	7-8	2500	0	*	cm₀	cz₀bc	bcwz₀m₀	bccm₀w
Manchester	1023·4	-12	NNW	3	bc	74	45	8	7	3	-	2-3	2-3	7200	0	*	bcmybcz₀y	bcy	bcyc	c
Spurn Head	1024·6	-4	N'E	3	bc	64	75	8	-	4	-	0	2-3	-	0	2	c	bc	cw	cod₀
Catterick	1025·6	+4	NE	3	b	68	45	8	-	4	-	0	1	-	0	*	cwbcyz₀	ybcz₀b	bybc	cm₀ir₀
Tynemouth	1026·6	0	NNE	2	bc	60	85	7	-	4	-	0	2-3	-	0	1	cbc	bc	bcc	bcid₀
St. Abbs Head	1026·6	-2	E	2	bc	64	35	9	1	3	1	Tr	4-6	2500	1	1	bc	bcy	ir₀c	ir₀c
Leuchars	1026·3	0	ENE	2	bc	67	65	8	-	3	-	0	2-3	-	0	*	cby	bybcyb	bcc	c
Renfrew (Abbots I.)	1025·3	-2	NW	4	c	67	55	9	8	7	-	4-6	9+	4000	0	*	bcz₀bcy	bccvy	om₀cvyc	c
Eskdalemuir	1024·9	+2	ENE	4	bc	71	55	8	1	7	1	Tr	2-3	4000	0	*	cbcy	bcby	bbcc	co
Point of Ayre	1025·3	-8	WNW	4	bc	65	75	8	-	-	9	0	4-6	-	0	2	bcc	cbc	c	c
Tiree	1028·1	0	NNW	1	m	59	92	4	-	-	-	10	10	<150	0	2	cmbc	cf	fc	c
Stornoway	1028·6	+14	N	4	id₀	56	97	7	5	2	-	9	10	800	0	2	cpr₀	cpr₀d₀	cid₀	c
Dalwhinnie	1026·2	-2	N	4	c	71	55	8	4	4	-	7-8	9+	4000	0	*	bc	c	*	cir
Aberdeen	1026·5	-2	ESE	2	bc	66	75	8	1	4	-	1	2-3	4000	0	0	ir₀bcy	bcybc	bcc	c
Wick	1026·9	+6	NW	5	pr	59	92	7	5	2	-	7-8	10	450	0	2	c	cpr₀	id₀c	c
Lerwick	1024·9	+8	NW	5	c	55	97	6	5	2	-	7-8	10	800	0	*	oc	oid₀c	c	c
Blacksod Point	1029·3	-4	NNW	3	c	62	92	8	5	-	-	9	9	1500	0	3	bcc	bcc	c	cq
Malin Head	1028·8	-4	NW	3	bf+	60	92	2	-	-	-	0	0	-	0	0	cidc	cFfc	cFfc	cFfc
Aldergrove	1026·9	-2	N'W	3	c	68	65	9	7	4	2	Tr	7-8	4000	0	*	cbcb	bbc	bccof	ommofom
Birr Castle	1026·2	-4	NNE	2	bc	75	55	8	1	-	1	4-6	4-6	2500	0	*	bcy	bcy	c	c
Valentia Obsy. †	1026·8	-4	N'E	4	b	70	45	8	1	-	1	Tr	1	2500	0	2	bbc	bcyby	bybbccwc	cbc
Roches Point	1025·3	-4	SW'S	2	bc	71	75	8	-	4	5	0	4-6	-	0	1	bc	bc	c	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). ↗ gale.
⊕ Solar halo. ⊕ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

† Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

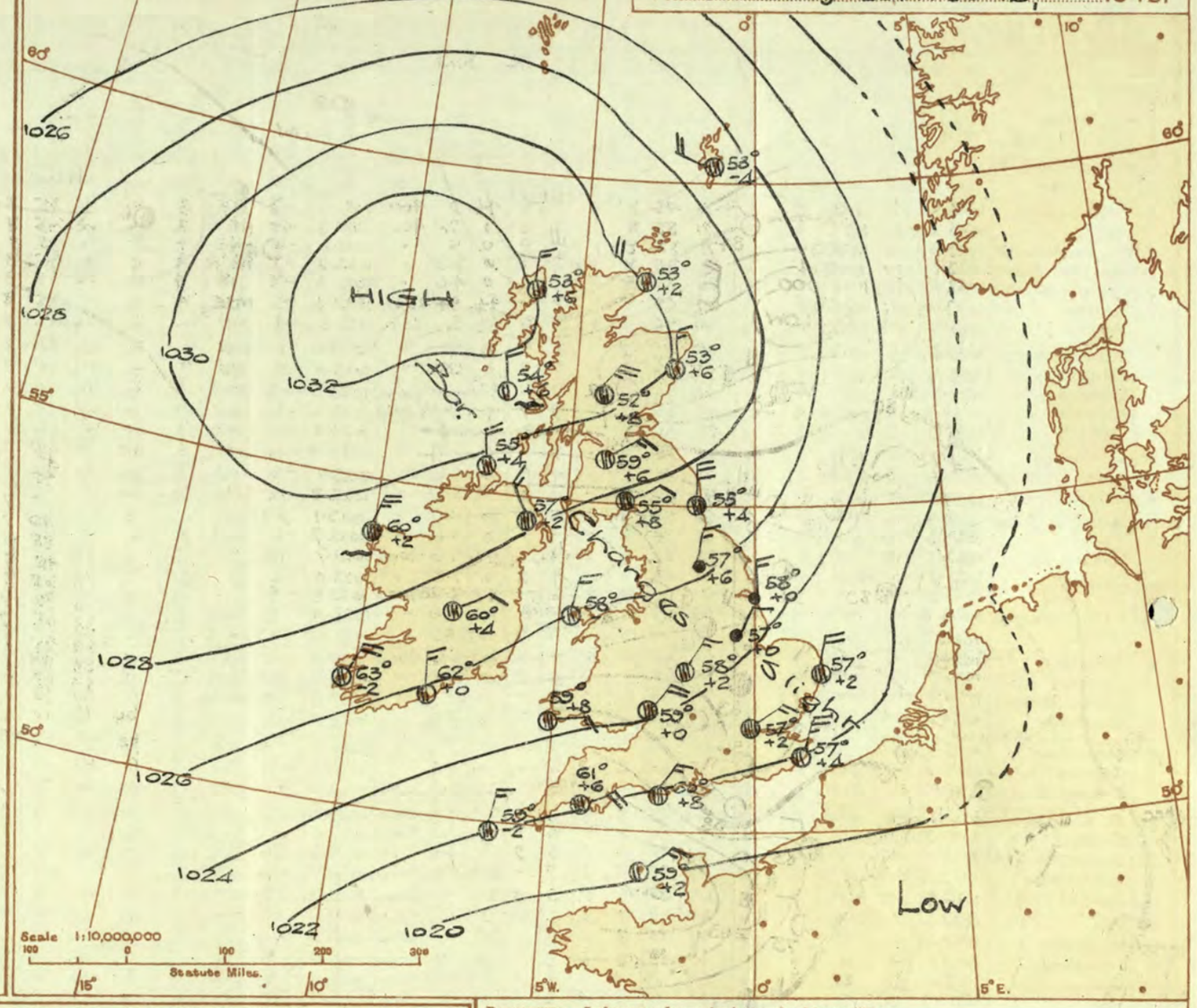
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 20th June, 1940.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 20th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate north to northeast wind, fresh on coast; mainly cloudy; some slight drizzle or rain near coast today; rather cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Moderate northeast wind; bright periods; average temperature.
7 North Wales ... 8 N.W. England	Moderate northeast wind; cloudy at first, bright periods later; rather cool.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate north to northeast wind, fresh on coast; mainly cloudy at first; bright periods later; rather cool.
12 S.W. Scotland & Isle of Man.	Light or moderate wind, between northeast and northwest; fair or fine; rather cool.
13 A. W. Scotld. / B.N.W.Scotland.	As 15 · 16.
14 Mid Scotland	As 12 - 13A.
15 N. E. Scotland 16 Orkneys and Shetlands	Moderate northwest wind, backing westsouthwest; mainly cloudy, but some bright intervals; rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate north to northeast wind; fair or fine; average temperature in south; rather cool in north.

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 centred off Northwest Scotland extends to north of the Azores, while feeble troughs of low pressure over North England and Mid-Scotland respectively are moving slowly south.

In East England weather will be cloudy with occasional light rain or drizzle, elsewhere it will be fair with bright periods generally, but with more cloud and a somewhat lower temperature than of late.

FURTHER OUTLOOK.

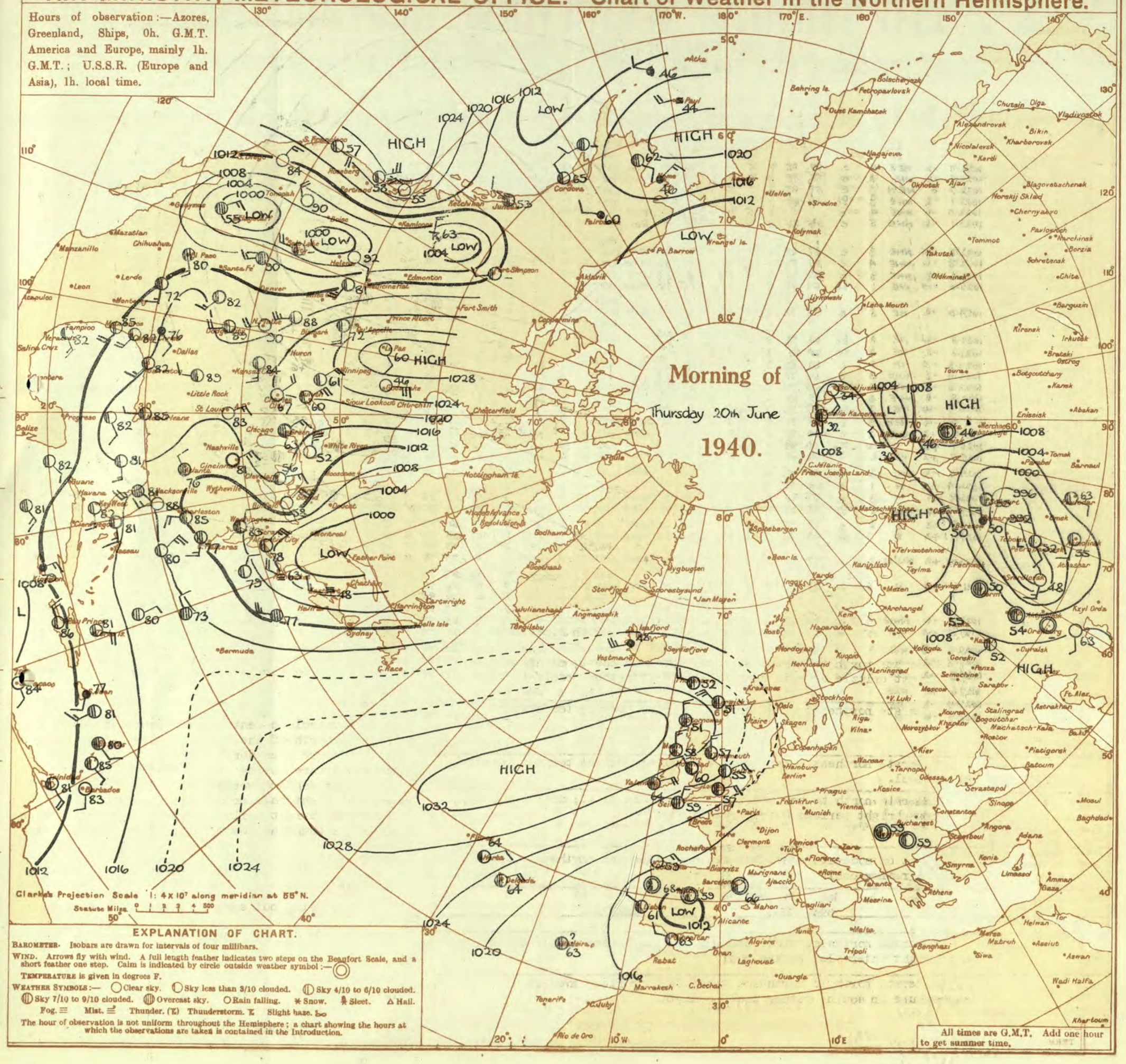
Mainly fair, but some slight rain in extreme North.

Forecasts issued at 1030 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 20th June 1940.

No. 28700

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1022·8	-2	NE'E	3	c	57	85	7	5	-	-	10	10	1500
	S. Farnborough	226	1022·9	+2	NE	2	c	58	75	8	5	3	-	7-8	9+	4000
	Boscombe Down	417	1022·9	0	NE'N	3	c	58	65	8	-	5	-	0	7-8	-
	Calshot (Sthmtn.)	8	1022·1	-2	NNE	3	bc	62	65	7	-	3	-	0	2-3	-
	Lympne ...	346	1022·0	-6	NNE	4	c			8	5	4	-	4-6	7-8	1500
	Manston ...	154	1022·1	-6	NNE	5	c	56	85	8	6	-	-	9+	9+	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1022·8	-6	NNE	3	c	57	85	8	7	-	-	9+	9+	1500
	Gorleston ...	5	1022·8	-6	NNE	4	c	57	85	7	5	-	-	9+	9+	2500
	Mildenhall ...	19	1023·3	-8	NNE	3	c	56	92	7	8	3	-	1	7-8	1500
	Cranwell ...	240	1025·0	-10	NE	1	bc	54	97	7	5	-	-	4-6	4-6	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1024·0	-2	NE	3	c	53	92	8	5	4	-	9	9+	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022·5	-6	NE	2	bc	62	75	8	-	-	4	0	2-3	-
	Bristol ...	209	1023·3	-2	NE	2	bc	60	85	8	-	3	9	0	4-6	-
	Portland Bill ...	32	1022·3	-12	NE	3	c	62	85	8	5	-	-	10	10	4000
	Plymouth ...	82	1022·4	-2	NNE	3	c	66	55	7	-	3	-	0	7-8	-
	The Lizard ...	240	1022·3	-6	N'E	2	c	65	55	8	8	7	-	7-8	7-8	2500
	Scilly (St. Mary's)	163	1022·8	-8	NNE	3	c	59	92	6	8	-	9	4-6	9+	2500
	Guernsey ...	175	1020·9	-10	NE	3	c	57	92	8	-	7	-	0	7-8	-
6	Pembroke ...	142	1022·6	-4	NE'N	4	b	59	75	8	-	7	-	0	0	-
7	Holyhead ...	26	1024·8	-8	NW'N	2	c	60	75	8	5	3	-	7-8	9	5700
	Chester (Sealand)	16	1025·1	+2	-	0	Zo	53	85	6	-	3	-	0	4-6	-
8	Manchester ...	70	1025·5	+2	N'E	2	c	58	65	7	-	3	-	0	7-8	-
10	Spurn Head ...	29	1024·3	-6	ENE	3	c	55	92	6	5	5	-	7-8	9	800
	Catterick ...	175	1026·4	+2	N	1	c	55	75	7	-	3	-	0	9	-
	Tynemouth ...	108	1026·3	0	N	3	c	58	85	7	5	-	-	9+	9+	1500
11	St. Abbs Head	280	1027·4	+2	NW	2	c/r	57	85	8	8	2	-	7-8	10	1500
	Leuchars ...	36	1027·8	+2	E	2	c	59	85	7	5	-	-	10	10	1500
12	Renfrew (Abbots I.)	19	1027·1	+2	E	1	c	63	75	7	5	3	-	2-3	7-8	5700
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1026·5	+2	NW'W	2	c	57	97	8	5	3	-	4-6	9+	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1031·3	+4	N	3	c	51	85	7	5	7	-	9	10	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1029·5	+6	NNW	4	c	52	85	7	5	2	-	7-8	10	800
16	Lerwick ...	156	1027·5	+10	NW	5	c	51	85	8	5	7	-	7-8	9	1500
17	Blacksod Point	18	1029·4	-8	NW	3	c	60	97	7	-	1	-	0	10	-
18	Malin Head ...	84	1028·8	-2	N	3	c	58	92	8	6	-	-	7-8	7-8	5700
	Aldergrove ...	268	1027·8	-2	NW	3	c/m	57	97	4	5	-	-	10	10	220
19	Birr Castle ...	173	1027·6	+2	NNE	1	c	58	92	8	5	-	-	10	10	2500
20	Valentia Obsy.	30	1027·4	-2	NE	4	c	64	85	9	5	3	-	1	9+	2500
	Roches Point	22	1025·7	-6	N	3	c	62	92	8	5	-	5	4-6	7-8	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1022·8	+8	NNE	3	c	58	75	7	5	-	-	10	10	1500	0	*
Croydon ...	1022·5	+2	NE'E	3	c	57	85	7	5	-	-	10	10	1500	0	*
S. Farnborough	1022·8	+6	NNE	3	c	57	75	8	5	-	-	10	10	1500	0	*
Boscombe Down	1022·8	+2	NE'N	3	c	57	75	8	8	3	-	7-8	7-8	4000	0	*
Calshot (Sthmtn.)	1021·9	0	NNE	4	c	60	65	8	4	3	1	7-8	9	2500	0	1
Lympne ...	1021·4	+4	NNE	5	bc	57	75	8	5	-	-	4-6	4-6	1500	0	2
Manston ...	1022·0	+6	NE'N	4	c	58	75	8	5	4	-	7-8	7-8	1500	0	*
Shoeburyness ...	1022·4	+4	NNE	3	c	57	85	8	5	-	-	10	10	2500	0	*
Felixstowe ...	1022·4	+2	N'E	3	ir	57	85	8	5	-	-	10	10	1500	0	1
Gorleston ...	1022·9	+2	N'E	4	c	57	75	7	5	-	-	9+	9+	2500	0	2
Mildenhall ...	1023·5	+8	NE'N	4	c	58	75	8	5	3	-	9	9	2500	0	*
Cranwell ...	1024·6	0	NE	2	do do	57	85	6	5	-	-	10	10	800	1	*
Birmingham ...	1024·9	+2	NE	3	c	58	75	6	5	-	-	10	10	1500	0	*
Upper Heyford	1023·8	0	NE	3	c	56	75	8	5	3	-	9+	9+	2500	0	*
Ross-on-Wye	1024·3	0	NE	4	c	59	75	7	7	-	9	7-8	9	2500	0	*
Hartland Point	1022·5	+6	E	4	bc	59	75	8	5	4	4	2-3	4-6	2500	0	2
Bristol ...	1024·0	+2	NNE	3	c	58	75	8	5	3	9	4-6	7-8	2500	0	*
Portland Bill ...	1021·5	+8	NE	3	c	60	85	8	5	4	-	4-6	7-8	4000	0	3
Plymouth ...	1022·1	+6	ENE	4	c	61	65	8	1	4	2	Tr	7-8	4000	0	2
The Lizard ...	1021·9	0	ENE	3	bc	64	75	8	7	-	-	4-6	4-6	2500	0	2
Scilly (St. Mary's)	1021·9	-2	NNE	3	c	59	92	7	5	4	8	2-3	7-8	2500	0	2
Guernsey ...	1020·8	+2	NE'E	3	bc	59	85	7	1	7	-	1	2-3	2500	0	3
Pembroke ...	1024·2	+8	E	3	c	59	85	7	8	6	-	4-6	7-8	2500	0	1
Holyhead ...	1025·8	+4	NNE	3	bc	58	85	7	7	3	2	2-3	4-6	4000	0	1
Chester (Sealand)	1025·8	+2	NW	1	Zo	61	85	6	5	-	-	10	10	1500	0	*
Manchester ...	1025·5	0	NNE	3	Zo	62	85	6	5	-	-	9+	9+	2500	0	*
Spurn Head ...	1024·1	0	N	3	do do	58	97	5	5	-	-	10	10	800	1	2
Catterick ...	1027·0	+6	NNE	3	fog	57	97	5	6	2	-	9	10	800	1	*
Tynemouth ...	1027·1	+4	N	6	c/d	55	85	7	-	2	-	10	10	1500	0	3
St. Abbs Head	1028·7	+6	NNE	3	c	51	85	7	8	2	-	7-8	9	1500	0	3
Leuchars ...	1028·9	+8	E	3	c	55	85	7	5	1	-	9	10	1500	0	*
Renfrew (Abbots I.)	1028·0	+6	ENE	3	c	59	85	8	5	3	-	4-6	9+	1500	0	*
Eskdalemuir ...	1027·9	+8	ENE	2	o	55	92	5	5	-	-	10	10	450	0	*
Point of Ayre ...	1026·9	+4	NE'E	3	c	59	92	8	5	-	-	9+	9+	4000	0	1
Tiree ...	1028·7	+6	N	4	bc	54	75	8	1	4	-	Tr	2-3	4000	0	4
Stornoway ...	1031·8	+6	N	3	c	53	75	8	5	7	-	9	9+	2500	0	2
Dalwhirnie ...	1030·6	+8	NE	5	c	52	85	7	5	1	-	7-8	10	1500	0	*
Aberdeen ...	1029·6	+6	N	3	c	53	75	8	5	-	-	9+	9+	2500	0	1
Wick ...	1029·7	+2	NW	4	c	53	75	8	5	7	-	7-8	10	1500	0	2
Lerwick ...	1027·4	-4	WNW	4	c	53	75	8	5	7	-	7-8	9	1500	0	*
Blacksod Point	1029·2	+2	NNE	5	cy	60	97	7	5		-	10	10	800	0	4
Malin Head ...	1029·3	+4	N	4	c	55	85	8	8	-	-	7-8	7-8	5700	0	2
Aldergrove ...	1028·0	+2	NW	3	o	57	92	6	5	-	-	10	10	450	0	*
Birr Castle ...	1027·6	+4	ENE	2	c	60	85	8	5	3	-	4-6	7-8	1500	0	*
Valentia Obsy.	1027·0	-2	NE'N	4	bc	63	85	8	5	3	2	Tr	4-6	2500	0	3
Roches Point	1024·7	0	N	3	bc	62	85	8	5	4	5	1	4-6	2500	0	1

PAST 24 HOURS

Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Temperature. Min. on Grass °F (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 19th Hrs. (36)
London (Kew)	73	55	52	-	-	8·3
Croydon ...	71	56	51	-	-	5·0
S. Farnborough	75	55	52	-	-	10·9
Boscombe Down	75	52	47	-	-	11·7
Calshot (Sthmtn.)	77	58	55	-	-	12·4
Lympne ...	64	52	49	-	-	6·7
Manston ...	63	55	52	Tr	-	5·3
Shoeburyness ...	67	54	47	Tr	-	8·2
Felixstowe ...	67	55	53	Tr	Tr	6·7
Gorleston ...	62	56	55	-	-	7·2
Mildenhall ...	72	53	47	-	-	9·7
Cranwell ...	74	53	51	-	Tr	13·1
Birmingham ...	73	53	46	*	-	8·0
Upper Heyford	74	53	47	-	-	*
Ross-on-Wye	75	52	43	-	-	11·9
Hartland Point	67	58	55	-	-	9·4
Bristol ...	76	51	41	-	-	12·1
Portland Bill ...	73	59	*	-	-	*
Plymouth ...	75	61	54	-	-	10·0
The Lizard ...	71	60	*	-	-	10·5
Scilly (St. Mary's)	68	57	*	-	-	12·5
Guernsey ...	65	55	51	-	-	10·1
Pembroke ...	71	57	*	*	-	6·0
Holyhead ...	60	54	52	-	-	11·2
Chester (Sealand)	70	53	47	-	-	8·6
Manchester ...	80	53	47	-	-	7·2
Spurn Head ...	68	53	*	-	Tr	11·6
Catterick ...	76	51	44	-	1	11·8
Tynemouth ...	63	55	54	-	Tr	*
St. Abbs Head	69	51	*	-	Tr	*
Leuchars ...	73	54	55	-	-	7·3
Renfrew (Abbots I.)	81	59	55	-	-	10·0
Eskdalemuir ...	76	54	51	-	-	9·4
Point of Ayre ...	68	55	*	-	-	11·4
Tiree ...	(64)	53	*	-	-	0·5
Stornoway ...	66	51	*		Tr	1·9
Dalwhirnie ...	75	50	50	-	0·3	1·9
Aberdeen ...	68	52	51	Tr	-	10·7
Wick ...	64	51	*	Tr	-	*
Lerwick ...	59	50	*	Tr	-	0·4
Blacksod Point	66	60	*	-	0·3	*
Malin Head ...	63	53	*	Tr	-	5·5
Aldergrove ...	70	56	55	-	-	12·3
Birr Castle ...	78	55	55	-	-	14·8
Valentia Obsy.	72	61	55	-	-	15·1
Roches Point	75	60	*	—	-	*

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.
Kew ...	18	bcoy⊕cy	cy	cyc	73	55	52	-	-	8·3	•	•	7
Croydon ...	217	bccy	cyu	cyc bcc	71	56	51	-	-	5·0	•	•	8
Greenwich (Royal Observatory) ...	149	bc ⊕cy	c⊕cy	c	71	55	50	-	-	6·8	44	66	6
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	74	57	52	-			53	76	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	75	55	52	-	-	8·0	57	71	•
Camden Square ...	110	bc	bc	•	76	56	51	-	-	•	•	65	•
Kensington ...	80	bc	bc	•	76	56	52	-	-		36	71	•
Hampstead Observatory ...	450	bc	bc	bc	76	47	42	-	-		•	65	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 20th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
Lo·1	whole	period	

FOREIGN OBSERVATIONS.

18h. G.M.T. 19th June

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris ...					
Brussels ...					
Berlin ...					
Zürich ...					
Rome ...					

7h. G.M.T. 20th June

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris ...					
Brussels ...					
Berlin ...					
Zürich ...					
Rome ...					

Past 24 Hours.

Stations.	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris ...				
Brussels ...				
Berlin ...				
Zürich ...				
Rome ...				

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Friday 21st June 1940.

No. 28791

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1021.6	-14	NE'N	4	bc	70	45	8	1	7	-	2-3	4-6	4000
	Croydon	1021.4	-14	NE'E	3	bc	71	45	8	1	4	5	Tr	2-3	4000
	S. Farnborough	1021.4	-14	NE'N	3	bc	72	45	8	1	4	9	1	4-6	4000
	Boscombe Down	1021.6	-10	NNE	4	c	72	35	8	1	3	-	1	7-8	4000
	Calshot (Soton.)	1021.1	-10	NE'E	4	bc	72	45	8	1	4	-	Tr	2-3	4000
	Lympne	1021.5	-2	NNE	4	b	63	65	8	1	-	-	Tr	Tr	2500
	Manston	1021.3	-2	NE	5	bc	62	65	8	5	-	-	4-6	4-6	1500
2	Shoeburyness	1022.3	-8	NE'E	3	b	65	65	8	-	4	-	0	Tr	-
	Felixstowe	1021.9	-6	E'N	4	b	64	65	8	5	4	-	Tr	Tr	2500
	Gorleston	1022.9	0	NNE	4	c	63	75	7	5	5	-	7-8	9	2500
	Mildenhall	1022.6	-6	N'E	4	bc	69	55	8	7	7	9	2-3	2-3	4000
	Cranwell	1025.2	+4	NE'N	5	iD	59	92	5	5	-	-	10	10	450
3	Birmingham	1024.7	0	NNE	4	id₀	61	85	6	6	-	-	10	10	800
	Upper Heyford	1023.4	+2	NE	4	c	65	75	8	9	3	-	9+	9+	1500
4	Ross-on-Wye	1023.8	-6	NE	4	z₀	65	75	6	5	-	-	10	10	1500
5	Hartland Point	1022.1	-4	NE	4	c	61	85	7	8	8	-	4-6	7-8	4000
	Bristol	1022.8	-6	NE	4	c	71	45	8	1	4	9	2-3	7-8	4000
	Portland Bill	1020.7	-14	E	1	c	64	85	8	1	4	-	4-6	7-8	4000
	Plymouth	1021.5	-6	E'S	2	c	71	55	8	1	9	8	1	7-8	4000
	The Lizard	1022.0	+4	E	4	bc	64	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1022.6	+4	NE	4	c	66	65	8	8	8	3	7-8	9+	2500
	Guernsey	1020.2	-2	ENE	5	bc	62	75	7	-	7	9	0	2-3	-
6	Pembroke	1023.9	-6	ENE	4	c	69	65	7	8	6	-	4-6	7-8	2500
7	Holyhead	1026.3	+2	N'E	2	c	60	85	8	5	3	-	9	9+	4000
	Chester (Sealand)	1025.9	-2	N	3	c	65	65	6	5	7	-	4-6	9+	1500
8	Manchester	1025.8	0	NNE	3	bc	69	55	7	-	9	1	0	4-6	-
10	Spurn Head	1025.0	+2	N	2	o	58	92	6	5	-	-	10	10	800
	Catterick	1028.4	+6	NE'N	4	c	57	75	7	5	-	-	10	10	1500
	Tynemouth	1028.6	+6	N	6	c	55	75	7	8	-	-	9+	9+	2500
11	St. Abbs Head	1029.7	-2	NNE	3	bc	54	75	7	1	4	2	2-3	2-3	2500
	Leuchars	1029.4	+2	E	3	b	61	65	8	1	4	-	Tr	Tr	4000
12	Renfrew (Abbots L.)	1028.5	-2	NE'E	2	bc	68	65	7	5	-	-	4-6	4-6	1500
	Eskdalemuir	1028.3	0	NE	3	c	59	65	7	5	-	-	7-8	7-8	2500
	Point of Ayre	1027.3	+6	E	4	c	61	85	8	5	-	-	9+	9+	4000
13A	Tiree	1028.5	-4	N'E	4	b	59	75	8	1	-	-	Tr	Tr	4000
13B	Stornoway	1031.4	-6	NE	4	bc	57	75	8	1	-	-	2-3	2-3	4000
15	Dalwhinnie	1028.7	-4	NE	5	b	64	55	8	.	-	-	0	0	-
	Aberdeen	1029.3	-4	N	4	bc	60	65	8	5	-	-	4-6	4-6	2500
	Wick	1029.5	-4	NW	4	c	57	75	8	4	4	-	4-6	7-8	1500
16	Lerwick	1027.1	-4	NW	4	c	58	75	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	1029.5	-2	N	5	bc	62	85	8	-	3	-	0	4-6	-
18	Malin Head	1029.0	-2	N	3	c	58	85	8	4	-	7	2-3	7-8	5700
	Aldergrove	1027.7	-4	NNW	3	c	63	75	7	1	3	-	Tr	9+	2500
19	Birr Castle	1026.7	-4	NE	1	c	76	55	8	4	3	-	4-6	7-8	2500
20	Valentia Obsy. †	1026.5	-8	N'E	4	bc	71	65	8	1	4	2	Tr	4-6	2500
	Roches Point	1025.6	+2	E	4	bc	65	75	8	1	4	5	2-3	4-6	4000

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1021.0	+4	NE'N	4	bc	67	55	8	2	7	1	2-3	4-6	4000	0	*
Croydon	1020.6	+2	ENE	2	bc	68	65	8	1	4	-	2-3	2-3	2500	0	*
S. Farnborough	1020.7	+4	NNE	4	bc	70	55	8	1	8	-	2-3	2-3	4000	0	*
Boscombe Down	1021.0	-2	NNE	4	bc	68	55	8	5	4	9	2-3	4-6	4000	0	*
Calshot (Soton.)	1019.6	-6	N'E	5	bc	74	55	8	1	3	-	2-3	4-6	4000	0	2
Lympne	1020.3	-2	NNE	6	b	60	75	9	1	-	-	Tr	Tr	2500	0	§3
Manston	1021.2	-2	NE'E	6	c	59	75	8	5	-	-	7-8	7-8	1500	0	*
Shoeburyness	1021.5	-2	NE	4	b	61	75	8	-	4	1	0	Tr	-	0	*
Felixstowe	1021.6	0	NE	5	c	63	75	8	5	-	-	9+	9+	2500	0	4
Gorleston	1022.2	-4	N'E	5	id₀	60	85	5	6	-	-	10	10	1500	0	2
Mildenhall	1022.8	+2	NNE	4	id₀	61	85	8	5	2	-	9+	10	1500	0	*
Cranwell	1025.2	0	NNE	4	c	57	75	7	5	-	-	10	10	800	1	*
Birmingham	1024.1	-4	NNE	3	c	60	85	6	5	7	-	7-8	9+	1500	0	*
Upper Heyford	1023.8	+4	NE	4	c/d	59	85	6	5	7	-	9+	10	450	1	*
Ross-on-Wye	1023.9	+4	NE	4	c	61	75	6	5	-	-	10	10	1500	0	*
Hartland Point	1021.2	-8	NE	4	c	62	85	7	5	3	-	4-6	7-8	2500	0	2
Bristol	1022.3	+2	NE'N	4	c	65	75	8	5	3	-	7-8	9	1500	0	*
Portland Bill	1020.3	-10	WNW	1	c	62	85	8	5	-	-	7-8	7-8	4000	0	2
Plymouth	1020.9	-6	S'W	3	c	61	75	8	5	3	-	4-6	7-8	2500	0	1
The Lizard	1021.1	-4	-	0	c	64	75	8	8	6	-	4-6	7-8	2500	0	
Scilly (St. Mary's)	1021.7	-6	NNE	4	c	64	75	7	-	8	3	0	9	<150	0	2
Guernsey	1019.0	-10	ENE	2	bc	62	85	8	-	7	-	0	2-3	-	0	3
Pembroke	1022.5	-4	ENE	4	c	69	65	6	8	7	-	4-6	7-8	2500	0	1
Holyhead	1025.2	-4	NNE	3	c	60	85	8	5	4	-	9	9+	4000	0	2
Chester (Sealand)	1024.9	-4	ENE	3	z₀	66	45	6	-	5	8	0	7-8	-	0	*
Manchester	1025.7	+2	NNE	4	z₀	63	55	6	-	9	-	0	7-8	-	0	*
Spurn Head	1024.8	+2	N	5	c	57	85	6	5	-	-	9+	10	800	0	4
Catterick	1027.2	-10	NNE	3	c	56	75	8	5	7	-	9	9+	1500	0	*
Tynemouth	1027.6	-4	NNE	5	c	55	75	8	8	-	-	9+	9+	2500	0	3
St. Abbs Head	1028.8	-6	NE	3	bc	53	75	8	2	4	-	2-3	4-6	2500	0	2
Leuchars	1028.3	-10	E	3	bc	58	75	8	1	-	-	2-3	2-3	2500	0	*
Renfrew (Abbots L.)	1027.3	-6	ENE	3	b	67	55	7	1	-	-	Tr	Tr	4000	0	*
Eskdalemuir	1026.9	-2	NE'E	3	bc	61	65	8	-	7	-	0	2-3	-	0	*
Point of Ayre	1026.1	-12	ENE	4	bc	64	65	8	-	4	5	0	2-3	-	0	2
Tiree	1027.1	-6	N'E	4	b	59	75	8	1	-	-	Tr	Tr	4000	0	3
Stornoway	1029.8	-10	NE	3	b	58	75	8	1	-	-	Tr	Tr	4000	0	2
Dalwhinnie	1028.5	-6	NE	6	b	65	45	8	-	-	-	0	0	-	0	*
Aberdeen	1028.1	-8	N	3	b	60	65	8	5	-	-	Tr	Tr	4000	0	2
Wick	1028.5	-6	NW	4	bc	57	75	8	1	4	1	4-6	4-6	1500	0	2
Lerwick	1026.2	-8	NW	4	c	56	75	7	8	5	8	4-6	9	800	0	*
Blacksod Point	1028.8	-6	N	5	bc	60	85	8	-	4	-	0	2-3	-	0	4
Malin Head	1028.1	-6	N	3	c	58	85	8	8	7	-	4-6	7-8	5700	0	0
Aldergrove	1026.5	-6	E'N	1	bc	68	75	7	7	-	-	4-6	4-6	4000	0	*
Birr Castle	1025.4	-4	ENE	1	bc	75	65	8	1	-	4	4-6	4-6	2500	0	*
Valentia Obsy. †	1025.5	-6	NE'N	4	b	71	75	8	1	4	-	Tr	1	2500	0	2
Roches Point	1024.8	-2	SSE	3	bc	68	85	8	1	3	-	1	4-6	4000	0	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 20th (37)	Weather 13h.—18h. 20th (38)	Weather 18h. 20th to 1h. 21st (39)	Weather 1h.—7h. 21st (40)
London (Kew)	cbcy	bcybc	bccd₀cm₀	c
Croydon	c,bc	bcb	cd₀d₀d₀ddd₀	cd₀d₀c
S. Farnborough	cbcy	bcb bcy	bccd₀d₀c	cd₀m₀c
Boscombe Down	bccy	bcy	id₀c	cm₀c
Calshot (Soton.)	cbcy	bybcy	bcb,c	c
Lympne	bcb	bcb	b,cd₀d₀m₀	d₀r₀d₀cm₀
Manston	c	cbc	cd₀d₀	dd₀d₀cm₀
Shoeburyness	cbcb	bcbyvb	b,cdd	ddc
Felixstowe	cid₀b	b	od₀d₀m₀	om₀c
Gorleston	c	coid₀	oid₀cq	cq
Mildenhall	cbccbcy	bcycid	cid₀cz₀	cz₀c
Cranwell	ddmiD	ciDm₀c	c	c
Birmingham	coid₀	dc	c	c
Upper Heyford	c	cir₀Dm₀	cm₀id₀cm₀	cm₀c
Ross-on-Wye	ccoz₀	od₀oc	c	oc
Hartland Point	bcc	c	c	c
Bristol	cbcy	bcyc	c	c
Portland Bill	c	bcc	bcb	co
Plymouth	bcbcy	bcybcc	bc	bm₀bcm₀
The Lizard	bc	bcc	bc	bcc
Scilly (St. Mary's)	cbcc	cbcc	cbc	bccbc
Guernsey	bccbc	bcb	bw	bwbcc
Pembroke	cz₀	cz₀	bcz₀	bcm₀
Holyhead	bcc	bcc	cwb	wb
Chester (Sealand)	cmd₀	cmz₀bcy	cbz₀m₀w	b,cmm₀w
Manchester	cmcz₀bcy	bcycy	bcz₀	cz₀bc
Spurn Head	dd₀	oc		oc
Catterick	cr₀cz₀c	c	c	c
Tynemouth	oc	c	c	c
St. Abbs Head	cqc	bc	bcc	bccbc
Leuchars	cbcb	bbc	bcb,c	cbcm₀b
Renfrew (Abbots L.)	cm₀cbc	bcby	b,cbc	cbbccm₀
Eskdalemuir	om₀cbc	bcb	bcb	bbc
Point of Ayre	c	cbc	b	b
Tiree	b	b	b	bc
Stornoway	cbc	bcb	bbc	bcc
Dalwhinnie	bcb	b		bcc
Aberdeen	cbc	bcb	b	bbw
Wick	c	cbc	bc	bcc
Lerwick	cid₀c	c	c	c
Blacksod Point	cbc	bc	c	c
Malin Head	c	c	bc	c
Aldergrove	om₀c	cm₀bc	bc	cwfmbc
Birr Castle	bccy	bc		c
Valentia Obsy. †	bccbc	bcb	bbcbbw	bwbcw
Roches Point	bc	bc	cbc	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

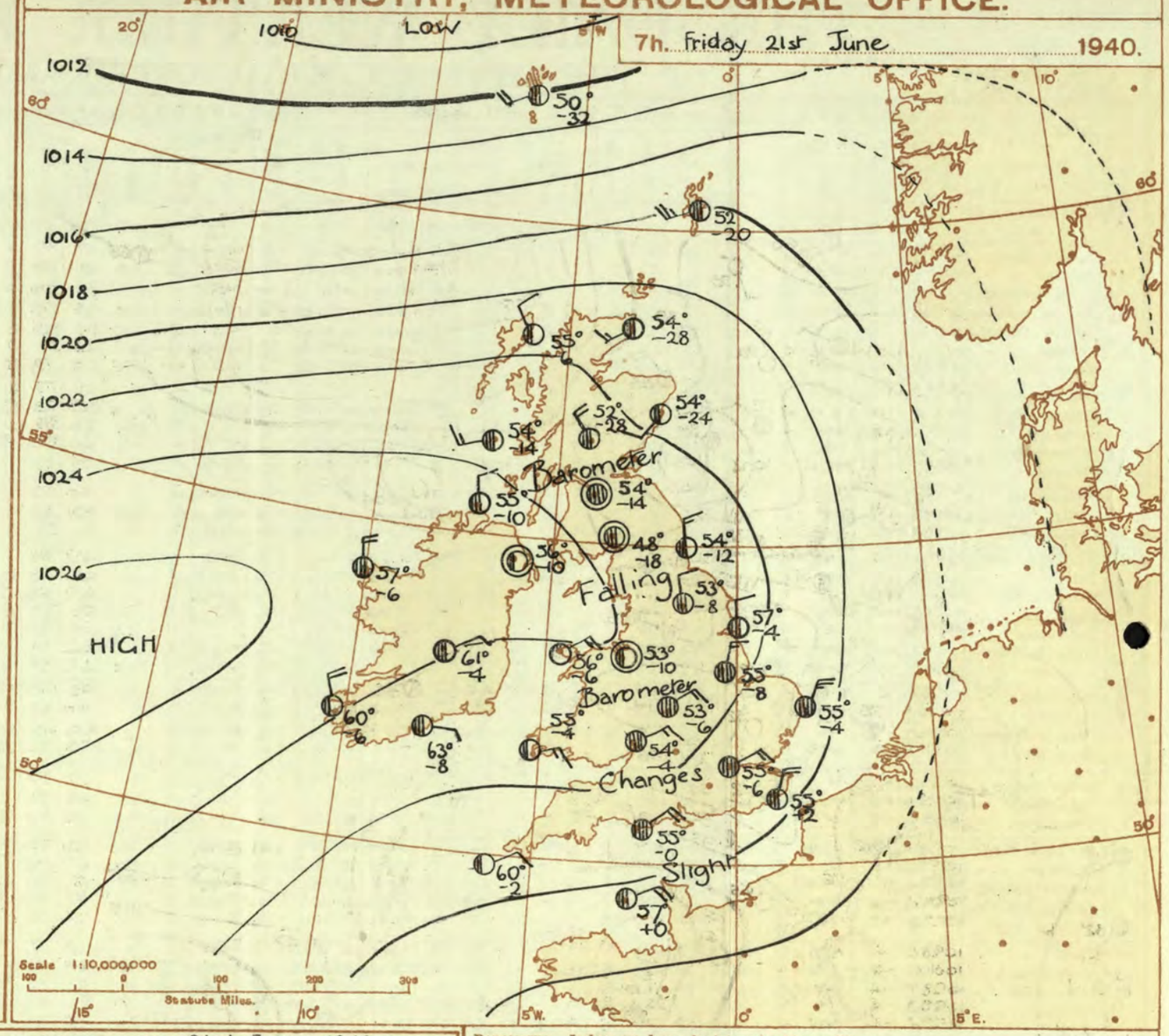
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 21st June 1940.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 21st June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate northeast wind fresh on coasts, backing northwest and falling Light; cloudy early then fine; average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Moderate northeast wind; fair or fine; average temperature.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light variable wind becoming moderate northwest; fair at first, cloud increasing; occasional rain or drizzle tomorrow; average temperature.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate northwest wind; bright periods today, cloudy with some rain or drizzle later; average temperature.
13 {A. W. Scotld. B.N.W.Scotland.} 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Moderate or fresh westerly wind, cloudy or dull; rain or drizzle at times; average or rather low temperature.
17 N. W. Ireland 18 N. E. Ireland	Moderate west to northwest wind; fair at first, slight rain or drizzle later; average temperature.
19 S. E. Ireland 20 S. W. Ireland	Light variable wind; fine or fair; rather warm.

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.

The anticyclone extending from the Azores to the British Isles is giving way rather quickly on its northeast side and a depression east of Iceland will move east-southeast. Weather will be fair with long bright periods in many districts but it will be dull at first in the southeast. Rain or drizzle will spread southeastwards across Scotland during the next 24 hours. Temperature will be mainly about the seasonal average.

FURTHER OUTLOOK.

Fair in the West and Southwest; occasional rain in the East.

Forecasts issued at 1040.

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 21st June 1940.

No. 28701

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1022.5	+2	NE'N	3	dodo	55	97	6	6	-	-	10	10	450
	S. Farnborough	226	1022.9	+2	NE'N	3	dodo	55	92	6	5	-	-	10	10	800
	Boscombe Down	417	1023.2	+2	NE'N	4	zo	55	85	6	6	2	-	9	10	1500
	Calshot (Sthmtn.)	8	1021.9	+2	N'E	3	c	59	85	7	5	-	-	9+	9+	4000
	Lympne ...	346	1021.6	0	N'E	4	dodo	55	97	6	6	-	-	9+	9+	450
	Manston ...	154	1022.0	+2	NE'N	4	dodo	55	97	5	6	-	-	10	10	220
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1022.8	0	NNE	3	c/d	54	92	6	5	-	-	10	10	1500
	Gorleston ...	5	1022.4	-2	NNE	5	c	56	85	7	5	-	-	10	10	2500
	Mildenhall ...	19	1023.7	0	NE	4	zo	55	75	6	5	-	-	10	10	2500
	Cranwell ...	240	1025.2	-2	NNE	3	c	54	75	7	5	-	-	10	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1024.1	+2	NE	4	zo	54	75	6	5	2	-	7-8	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022.7	+8	NE	4	c	59	85	8	5	-	-	9	9	2500
	Bristol ...	209	1023.8	+2	NE	4	c	57	75	7	5	7	-	9	10	1500
	Portland Bill ...	32	1021.0	+4	ENE	3	b	60	85	8	-	-	-	0	0	-
	Plymouth ...	82	1021.8	+2	ENE	3	bc	60	75	7	1	4	6	Tr	2-3	5700
	The Lizard ...	240	1021.6	+6	NW	4	bc	59	85	7	8	4	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1021.8	+2	NE	3	bc	59	92	6	-	4	9	0	4-6	-
	Guernsey ...	175	1020.2	+2	NE'E	3	dodo	55	97	7	-	-	-	0	0	-
6	Pembroke ...	142	1024.1	-6	E	3	bc	57	85	6	5	4	-	2-3	2-3	2500
7	Holyhead ...	26	1024.7	-6	E	4	b	55	85	7	-	-	-	0	0	-
	Chester (Sealand)	16	1026.1	+2	-	0	zo	46	85	5	-	-	-	0	0	-
8	Manchester ...	70	1025.7	-2	NE'E	3	bc	53	75	7	5	-	-	4-6	4-6	4000
10	Spurn Head ...	29														
	Catterick ...	175	1026.2	-10	N	2	c	53	85	7	5	-	-	10	10	1500
	Tynemouth ...	108	1026.3	-10	N	5	c	54	75	7	8	-	-	9	9	2500
11	St. Abbs Head	280	1026.8	-12	N	1	c	51	85	7	8	2	-	7-8	10	1500
	Leuchars ...	36	1026.7	-18	W	2	c	47	97	8	5	-	-	9+	9+	2500
12	Renfrew (Abbotsl.)	19	1026.8	-10	ENE	1	c	53	85	6	5	3	-	4-6	7-8	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1026.4	+2	ENE	3	b	55	85	8	-	4	5	0	1	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1026.4	-14	NW	1	bc	47	97	7	-	4	1	0	2-3	-
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1025.3	-20	W	2	bc	47	97	8	5	6	-	2-3	2-3	2500
16	Lerwick ...	156	1023.0	-26	WSW	4	c	50	97	7	5	7	-	4-6	7-8	800
17	Blacksod Point	18	1027.2	-8	NNE	4	c	57	85	8	-	4	-	0	9	-
18	Malin Head ...	84	1026.4	-8	N	2	bc	53	92	8	5	-	-	2-3	2-3	5700
	Aldergrove ...	268	1026.2	-6	-	0	c	54	92	7	5	-	-	9	9	2500
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1025.7	-2	-	0	b	59	92	8	-	-	-	0	0	-
	Roches Point	22	1024.9	-2	N	1	bc	61	92	8	5	-	-	4-6	4-6	2500

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

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)	1021.6	-4	NE	3	c	56	65	7	5	-	-	10	10	1500	0	*
	Croydon ...	1021.4	-6	NE'E	3	c	55	75	8	5	-	-	10	10	1500	0	*
	S. Farnborough	1021.6	-2	NNE	3	c	55	75	7	5	1	-	9	10	1500	0	*
	Boscombe Down	1022.0	-2	NE'N	3	c	54	75	8	5	2	-	7-8	10	2500	0	*
	Calshot (Sthmtn.)	1021.3	0	NNE	3	c	57	75	7	5	-	-	10	10	1500	0	1
	Lympne ...	1020.9	+2	NNE	4	zo	55	85	6	5	-	-	10	10	800	0	§3
	Manston ...	1020.7	-2	NE'N	4	zo	56	75	6	5	3	-	7-8	9	1500	1	*
2	Shoeburyness ...	1021.4	-2	N'E	3	c	55	85	8	5	-	-	10	10	2500	1	*
	Felixstowe ...	1021.3	-6	N	3	c	56	75	8	5	-	-	9+	9+	2500	0	1
	Gorleston ...	1021.4	-4	NE'N	5	c	55	75	7	5	-	-	10	10	2500	0	3
	Mildenhall ...	1022.0	-10	NNE	3	c	55	75	7	5	-	-	10	10	2500	0	*
	Cranwell ...	1023.3	-8	N'E	3	c	55	65	8	5	-	-	10	10	1500	0	*
3	Birmingham ...	1023.2	-6	NE	3	c	53	65	6	5	-	-	10	10	800	0	*
	Upper Heyford	1022.9	-6	NE'N	3	c	54	75	7	5	-	-	10	10	1500	0	*
4	Ross-on-Wye	1023.1	-4	NE'E	3	c	54	65	7	5	-	-	10	10	2500	0	*
5	Hartland Point	1021.4	-2	NE	3	c	57	85	7	5	-	-	9+	9+	2500	0	2
	Bristol ...	1022.9	-2	NE	3	c	54	85	8	5	-	-	10	10	1500	0	*
	Portland Bill ...	1021.3	0	NE	4	0	55	85	7	5	-	-	10	10	4000	0	3
	Plymouth ...	1021.2	-2	ENE	2	zo	59	75	6	1	4	-	2-3	4-6	4000	0	1
	The Lizard ...	1021.6	+2	ENE	3	c	60	85	8	8	2	-	9	10	1500	0	2
	Scilly (St. Mary's)	1021.5	-2	NE'E	2	bc	60	85	8	5	4	-	2-3	4-6	2500	0	2
	Guernsey ...	1019.5	0	NE'E	4	c	57	97	7	8	2	-	9	10	2500	0	3
6	Pembroke ...	1022.7	-4	E'N	3	bc	55	85	6	5	-	-	2-3	2-3	2500	0	1
7	Holyhead ...	1023.4	-6	ENE	3	b	56	75	7	-	-	-	0	0	-	0	1
	Chester (Sealand)	1024.1	-10	-	0	zo	53	85	5	5	-	-	2-3	2-3	2500	0	*
8	Manchester ...	1023.2	-14	NE	2	bc	55	75	7	5	-	-	4-6	4-6	2500	0	*
10	Spurn Head ...	1022.6	-4	N	2	c	57	75	7	5	-	-	9+	9+	800	0	3
	Catterick ...	1023.9	-8	N	2	c	53	75	7	5	-	-	9+	9+	1500	0	*
	Tynemouth ...	1023.8	-12	N	3	c	54	75	7	8	-	-	9	9	2500	0	2
11	St. Abbs Head	1023.3	-16	S	2	bc	54	92	8	5	-	2	2-3	4-6	2500	0	2
	Leuchars ...	1022.5	-24	WSW	3	bc	54	85	7	7	6	-	1	2-3	4000	0	*
12	Renfrew (Abbotsl.)	1023.5	-14	-	0	zo	54	85	6	5	-	-	10	10	1500	0	*
	Eskdalemuir ...	1023.8	-18	-	0	c	48	85	7	5	-	-	7-8	7-8	1500	0	*
	Point of Ayre...	1024.3	-12	N	1	b	57	75	8	-	-	5	0	1	-	0	1
13A	Tiree	1023.5	-6	NW'N	2	bc	55	85	8	7	-	-	4-6	4-6	2500	0	2
13B	Stornoway ...	1021.9	-14	WSW	3	c	54	85	8	5	7	-	7-8	10	2500	1	2
15	Dalwhirnie ...	1022.6	-28	NW	1	c	52	75	8	4	5	5	1	9	4000	0	*
	Aberdeen ...	1021.3	-24	SSW	2	bc	54	75	8	-	3	5	0	2-3	-	0	1
	Wick ...	1020.0	-28	SW	3	c	54	85	8	5	1	8	4-6	9+	1500	0	1
16	Lerwick ...	1018.2	-20	WSW	5	c	52	92	8	5	7	-	7-8	9+	800	0	*
17	Blacksod Point	1025.6	-6	N	4	c	57	85	8	-	7	-	0	10	-	0	4
18	Malin Head ...	1024.2	-10	N	2	c	55	85	8	8	-	-	7-8	7-8	5700	0	3
	Aldergrove ...	1024.2	-10	-	0	bc	56	85	7	5	-	-	4-6	4-6	4000	0	*
19	Birr Castle ...	1024.0	-4	ENE	1	c	61	75	8	5	6	-	9	9	2500	0	*
20	Valentia Obsy.	1024.2	-6	NW	4	b	60	92	8	5	4	-	4-6	4-6	800	0	1
	Roches Point	1022.8	-8	E	1	c	63	85	8	5	-	-	9	9	2500	0	1

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine Yesterday Hrs. (36)
London (Kew)	73	54	53	-	Tr	10.1
Croydon ...	75	53	51	-	0.1	8.8
S. Farnborough	76	53	52	-	Tr	9.1
Boscombe Down	73	52	50	-	-	8.8
Calshot (Sthmtn.)	77	55	55	-	-	12.0
Lympne ...	65	53	52	-	Tr	14.6
Manston ...	63	53	53	-	1	9.2
Shoeburyness ...	66	53	54	-	0.4	8.6
Felixstowe ...	67	53	52	Tr	0.2	8.1
Gorleston ...	63	54	52	Tr	-	5.3
Mildenhall ...	70	53	53	Tr	-	5.7
Cranwell ...	69	53	53	1	-	0.0
Birmingham ...	63	53	30	Tr	*	0.2
Upper Heyford	68	51	50	Tr	Tr	*
Ross-on-Wye	68	53	51	Tr	-	1.5
Hartland Point	65	57	56	-	-	7.5
Bristol ...	74	54	53	-	-	9.3
Portland Bill ...	62	54	*	-	-	*
Plymouth ...	73	57	52	-	-	7.9
The Lizard ...	68	57	*	-	-	11.7
Scilly (St. Mary's)	66	57	*	-	-	10.5
Guernsey ...	63	55	52	-	-	14.4
Pembroke ...	73	52	*	-	-	4.9
Holyhead ...	63	50	46	-	-	5.3
Chester (Sealand)	71	42	36	Tr	-	4.9
Manchester ...	70	52	48	-	-	4.5
Spurn Head ...	59	53	*	0.4	-	0.0
Catterick ...	59	50	50	Tr	-	0.7
Tynemouth ...	56	51	48	-	-	*
St. Abbs Head	55	50	*	-	-	*
Leuchars ...	61	45	39	-	-	11.3
Renfrew (Abbotsl.)	71	46	41	-	-	7.7
Eskdalemuir ...	65	44	36	-	-	7.4
Point of Ayre...	65	52	*	Tr	-	3.5
Tiree	61	53	*	-	-	15.2
Stornoway ...	59	47	*	-	-	3.7
Dalwhirnie ...	68	35	29	-	-	8.6
Aberdeen ...	63	43	36	-	-	11.6
Wick ...	59	43	*	-	-	*
Lerwick ...	60	50	*	Tr	-	4.7
Blacksod Point	62	56	*	-	-	*
Malin Head ...	59	50	*	-	-	3.6
Aldergrove ...	69	45	42	-	-	3.5
Birr Castle ...	78	58	57	-	-	11.4
Valentia Obsy.	73	55	49	-	Tr	11.8
Roches Point	73	61	*	-	-	*

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 (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	cbcy	bcybc	bccdcmc	73	54	53	-	Tr	10.1	*	*	7
Croydon ...	217	cibc	bcb	cdcdoc	75	53	51	-	0.1	8.8	*	*	8
Greenwich (Royal Observatory) ...	149	cby	bcy	cdoc	74	53	52	-	Tr	9.2	34	63	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	76	55	54	-		9.5	49	71	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*						10.0			*
Camden Square ...	110	bc	bc	*	78	55	53	-	-	*	*	59	*
Kensington ...	80	bc	bc	*	78	55	52	-	-		55	65	*
Hampstead Observatory ...	450	bc	ob	odpc	72	52	51	Tr	0.3		*	73	*

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

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
20.1	whole period		

FOREIGN OBSERVATIONS.

18h. G.M.T. 20th June — 7h. G.M.T. 21st June

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

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 6, 22 —Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 —Code for State of Sea.

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

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

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

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday 22nd June, 1940.
No. 28702

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018.9	-20	NE	3	b	64	55	7	1	-	-	1	1	4000
	Croydon	1018.8	-22	NE'E	2	bc	66	55	7	5	-	-	4-6	4-6	2500
	S. Farnborough	1018.5	-26	NE'N	3	b	68	45	8	1	-	-	1	1	4000
	Boscombe Down	1018.8	-24	N'E	2	b	66	45	8	1	-	-	Tr	Tr	4000
	Calshot (Soton.)	1018.8	-18	SSE	2	c	65	65	7	5	3	-	9	9+	4000
	Lympne	1019.0	-14	NNE	3	c	60	55	8	5	-	1	9	9	2500
	Manston	1019.4	-10	NE'N	4	c	58	75	7	5	-	-	9+	9+	1500
2	Shoeburyness	1019.3	-18	E'N	3	c	62	55	8	5	-	-	9	9	2500
	Felixstowe	1019.0	-22	E	3	bc	62	65	8	5	-	-	4-6	4-6	4000
	Gorleston	1019.2	-16	NNE	3	c	59	65	7	5	-	-	9+	9+	2500
	Mildenhall	1019.5	-20	NNE	2	bc	61	65	8	5	-	-	4-6	4-6	4000
	Cranwell	1019.5	-14	N'E	1	bc	66	45	8	5	-	-	2-3	2-3	2500
3	Birmingham	1019.0	-26	NE	1	b	65	45	7	-	-	-	0	0	-
	Upper Heyford	1020.0	-26	NE'N	1	bc	63	55	7	7	-	-	2-3	2-3	4000
4	Ross-on-Wye	1019.2	-20	E	2	b	66	55	7	1	-	-	Tr	Tr	4000
5	Hartland Point	1019.8	-14	NE	2	c	61	75	7	7	-	-	7-8	7-8	4000
	Bristol	1019.3	-30	E'N	3	b	66	55	8	-	-	-	0	0	-
	Portland Bill	1019.3	-18	SE	3	c	60	92	7	5	-	-	10	10	4000
	Plymouth	1019.6	-14	ENE	3	c	62	65	8	5	-	-	10	10	2500
	The Lizard	1019.9	-10	ESE	3	c	63	75	8	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	1020.4	-10	NE'N	3	bc	67	65	7	8	6	-	4-6	4-6	2500
	Guernsey	1018.7	-10	ENE	4	c	60	85	7	8	2	-	7-8	10	2500
6	Pembroke	1019.6	-16	WSW	2	b·	62	85	6	1	-	-	Tr	Tr	2500
7	Holyhead	1020.8	-14	NW	3	b	58	85	6	-	4	1	0	Tr	-
	Chester (Sealand)	1019.5	-28	WNW	4	zo	65	58	6	-	3	-	0	4-6	-
8	Manchester	1019.0	-30	W	2	zo	70	45	6	1	-	-	Tr	Tr	4000
10	Spurn Head	1019.4	-20	ENE	2	c	62	65	7	5	-	-	9+	9+	800
	Catterick	1017.9	-38	SSE	1	bc	72	55	8	2	-	2	2-3	4-6	4000
	Tynemouth	1018.5	-30	SSE	4	bc	58	75	8	8	-	1	4-6	4-6	2500
11	St. Abbs Head	1016.8	-32	SE	2	c	59	75	8	8	6	9	4-6	7-8	2500
	Leuchars	1015.8	-34	WNW	3	c	71	45	8	8	3	1	Tr	7-8	4000
12	Renfrew (Abbots I.)	1018.5	-26	W	4	c	70	45	9	7	6	6	4-6	7-8	4000
	Eskdalemuir	1017.4	-40	SW'W	3	c	66	65	7	5	7	1	4-6	7-8	2500
	Point of Ayre	1020.3	-20	NW	3	b	64	65	7	1	-	5	Tr	1	4000
13A	Tiree	1019.1	-24	W'S	4	c	60	75	8	5	3	-	2-3	7-8	2500
13B	Stornoway	1016.4	-36	SW	6	c	56	75	8	5	2	-	4-6	10	2500
15	Dalwhinnie	*	*	S	3	c	53.	55	8	4	7	-	2-3	10	4000
	Aberdeen	1014.9	-34	S'W	2	c	64	65	7	2	7	-	Tr	9+	2500
	Wick	1014.2	-28	W	3	c	58	75	8	5	7	8	4-6	10	1500
16	Lerwick	1012.2	-24	SW'W	6	pr	53	92	8	8	2	-	7-8	10	1500
17	Blacksod Point	1024.1	-10	N'W	4	c	58	75	8	-	6	-	0	7-8	-
18	Malin Head	1021.4	-16	NW	4	c	59	65	8	-	9	-	0	7-8	-
	Aldergrove	1020.4	-22	NW	2	c	64	75	8	8	-	-	9+	9+	2500
19	Birr Castle	1020.8	-14	NE	3	c	71	65	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy. †	1022.0	-14	NNW	5	bc	65	75	8	7	7	-	2-3	2-3	2500
	Roches Point	1020.6	-12	SSE	2	c	65	85	8	5	-	-	9	9	1500

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

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)	Form Low (23)	Form Med. (24)	Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1014.1	-26	NNW	2	b	70	45	7	-	-	-	0	0	-	0	*
	Croydon	1014.0	-30	E	1	b	68	45	7	-	4	-	0	Tr	-	0	*
	S. Farnborough	1014.0	-30	NNE	2	b	69	45	8	-	-	-	0	0	-	0	*
	Boscombe Down	1014.1	-30	N'E	1	b	68	45	8	-	-	-	0	0	-	0	*
	Calshot (Soton.)	1014.5	-26	SW	4	z	64	65	6	-	-	-	0	0	-	0	1
	Lympne	1015.4	-18	NE'N	3	b	59	65	8	-	8	1	0	1	-	0	§
	Manston	1018.1	-20	ENE	3	b	58	75	7	-	3	1	0	1	-	0	*
2	Shoeburyness	1015.3	-24	ESE	2	b	58	75	8	-	-	-	0	0	-	0	*
	Felixstowe	1015.3	-20	E'S	3	b	59	75	8	5	-	-	1	1	2500	0	2
	Gorleston	1015.2	-22	NNE	2	bc	58	65	7	5	-	-	2-3	2-3	2500	0	2
	Mildenhall	1014.7	-26	N	2	bc	65	55	8	-	-	4	0	2-3	-	0	*
	Cranwell	1014.0	-30	SE	3	c	67	55	8	-	-	6	0	7-8	-	0	*
3	Birmingham	1014.1	-30	WNW	2	z	69	35	7	1	-	-	Tr	Tr	4000	0	*
	Upper Heyford	1015.2	-28	N	2	b	67	55	8	1	-	-	Tr	Tr	4000	0	*
4	Ross-on-Wye	1014.6	-26	NW'N	2	b	69	45	7	-	-	1	0	Tr	-	0	*
5	Hartland Point	1015.6	-28	NNW	3	b	59	85	7	-	-	-	0	0	-	0	2
	Bristol	1014.8	-20	NNE	2	b	69	45	8	-	-	1	0	1	-	0	*
	Portland Bill	1015.1	-24	W	3	bc	58	85	8	5	-	-	4-6	4-6	4000	0	3
	Plymouth	1015.7	-28	S'W	3	b	60	75	7	-	-	-	0	0	-	0	2
	The Lizard	1016.2	-20	-	0	c	59	85	7	8	2	-	7-8	9+	1500	0	1
	Scilly (St. Mary's)	1017.0	-20	N'W	3	b	62	75	6	1	-	-	Tr	Tr	2500	0	2
	Guernsey	1015.0	-20	ENE	2	bc	58	85	7	1	4	-	2-3	2-3	2500	0	3
6	Pembroke	1016.3	-20	NW	2	b	60	75	6	-	4	-	0	Tr	-	0	1
7	Holyhead	1015.4	-22	NW'N	1	b	60	65	7	1	4	4	Tr	1	4000	0	0
	Chester (Sealand)	1015.0	-28	NNW	2	b	64	55	8	-	3	1	0	1	-	0	*
8	Manchester	1014.6	-24	NW'W	4	b	67	45	8	-	-	1	0	Tr	-	0	*
10	Spurn Head	1013.8	-16	NE	2	bc	58	85	7	-	-	3	0	2-3	-	0	2
	Catterick	1012.4	-30	WNW	3	c	71	55	8	2	3	9	4-6	7-8	4000	0	*
	Tynemouth	1013.0	-22	W	4	bc	69	45	7	7	4	2	2-3	4-6	2500	0	1
11	St. Abbs Head	1010.8	-24	WNW	4	c	64	35	8	4	6	8	4-6	9+	2500	0	3
	Leuchars	1010.4	-28	W	4	c	62	55	8	5	4	-	7-8	10	1500	0	*
12	Renfrew (Abbots I.)	1013.7	-28	WSW	3	iro	58	65	9	5	7	-	1	10	1500	0	*
	Eskdalemuir	1012.8	-24	W	2	c	60	65	8	5	7	-	2-3	9	2500	0	*
	Point of Ayre	1015.7	-34	NW'W	3	c	60	75	8	5	7	8	1	9+	2500	0	2
13A	Tiree	1013.0	-28	W	5	dr	54	85	7	-	2	-	10	10	800	1	4
13B	Stornoway	1009.1	-40	SW	4	roro	52	92	7	5	2	-	9+	10	1500	1	2
15	Dalwhinnie	1011.9	-46	SW	3	iro	51	75	8	6	2	1	7-8	10	4000	1	*
	Aberdeen	1009.4	-28	NNW	2	c	63	45	7	5	2	-	Tr	9+	2500	0	1
	Wick	1007.7	-30	WSW	4	c	55	85	8	5	7	8	7-8	10	1500	1	2
16	Lerwick	1006.0	-20	SW	7	c/r	51	97	7	6	2	-	7-8	10	800	1	*
17	Blacksod Point	1019.0	-20	W	4	c	59	75	8	-	7	-	0	9	-	0	3
18	Malin Head	1016.1	-30	W	5	c	57	75	8	8	-	-	9	9	4000	0	2
	Aldergrove	1016.2	-24	NW'W	3	c	62	45	9	2	7	-	Tr	9+	2500	0	*
19	Birr Castle	1017.6	-22	NW	2	c	67	55	8	8	3	-	4-6	9	2500	0	*
20	Valentia Obsy. †	1019.4	-18	N'W	5	bc	61	75	8	7	3	-	1	2-3	1500	0	3
	Roches Point	1016.8	-24	S	2	c	66	85	8	8	5	-	4-6	7-8	1500	0	2

PAST 24 HOURS.

District	Stations	Weather 7h.–13h. 21st. (37)	13h.–18h. 21st. (38)	18h. 21st to 1h. 22nd (39)	1h.–7h. 22nd. (40)
1	London (Kew)	cbcby	by	bybmow	bbecmow
	Croydon	cbc	bcyby	bybmobw	bmowfbec
	S. Farnborough	cby	by	bwmo	bwmoc
	Boscombe Down	cbcb	by	bmo	bcmoFm
	Calshot (Soton.)	c	bcbbmz	bmo	bmocmow
	Lympne	cmocy	cbcby	bw	bwb
	Manston	cmzoc	cb	bbw	bwbbmo
2	Shoeburyness	cy	cyb	bmow	wbmo
	Felixstowe	c	bcb	bbc	bc,mow
	Gorleston	c	cbc	bcb	bbcc
	Mildenhall	cbc	bcby	bcemo	c,bc,cmo
	Cranwell	cbcy	bcbcy	bcyb,cmo	cmororomo
3	Birmingham	cb	b	bzbc	bcor
	Upper Heyford	cbc	by	bbmo	cmo
4	Ross-on-Wye	cbcby	by	bbc	cor
5	Hartland Point	cbcc	cbcb	bbc	bccrr
	Bristol	cbcby	by	byzomo	bbecmo
	Portland Bill	c	bcbc	bcb	bcc
	Plymouth	bczoc	cb	bmo	bmomcmo
	The Lizard	c	c	bcw	bcc
	Scilly (St. Mary's)	bccbc	b	bbc	bccwpo
	Guernsey	c	cbc	bcbw	bwbc
6	Pembroke	bcbzo	bz	cmo	miroc
7	Holyhead	bmb	bmzb	bmoproc	cmoRrc
	Chester (Sealand)	bzo	bzby	bwcmoiro	cmororoRrr
8	Manchester	bcbcyzo	bzyby	bczocmo	cmoGGrr
10	Spurn Head	c	bc	co	orr
	Catterick	cbbcy	bcy	bcyc	rriroRRroro
	Tynemouth	cbc	bc	bccoiro	qoirrr
11	St. Abbs Head	c	cy	crrqc	rrc
	Leuchars	bcbcy	bcyc y	cycro	roroGGro
12	Renfrew (Abbots I.)	cmobcy	bccyc	ciroidoc	moidociro
	Eskdalemuir	cbc	bcyc	cororo	roRrr
	Point of Ayre	b	bbc	croc	Rro
13A	Tiree	c	oldr	oir	oirc
13B	Stornoway	c	cpro	crrpr	cpr
15	Dalwhinnie	c	cir	[illegible]	cir
	Aberdeen	bwbcc	ccy	ror	ciro
	Wick	c	crr	rrro	doprc
16	Lerwick	cpro	cpro	irr	crr
17	Blacksod Point	cbc	c	r	ircq
18	Malin Head	c	cpro	rocrorc	ciroc
	Aldergrove	c	cbc y	croroiro	irorodr
19	Birr Castle	c	cy	pro	cir
20	Valentia Obsy. †	bcwcbbc	bct	bcc	ciro
	Roches Point	bcc	proc	cc	circ

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

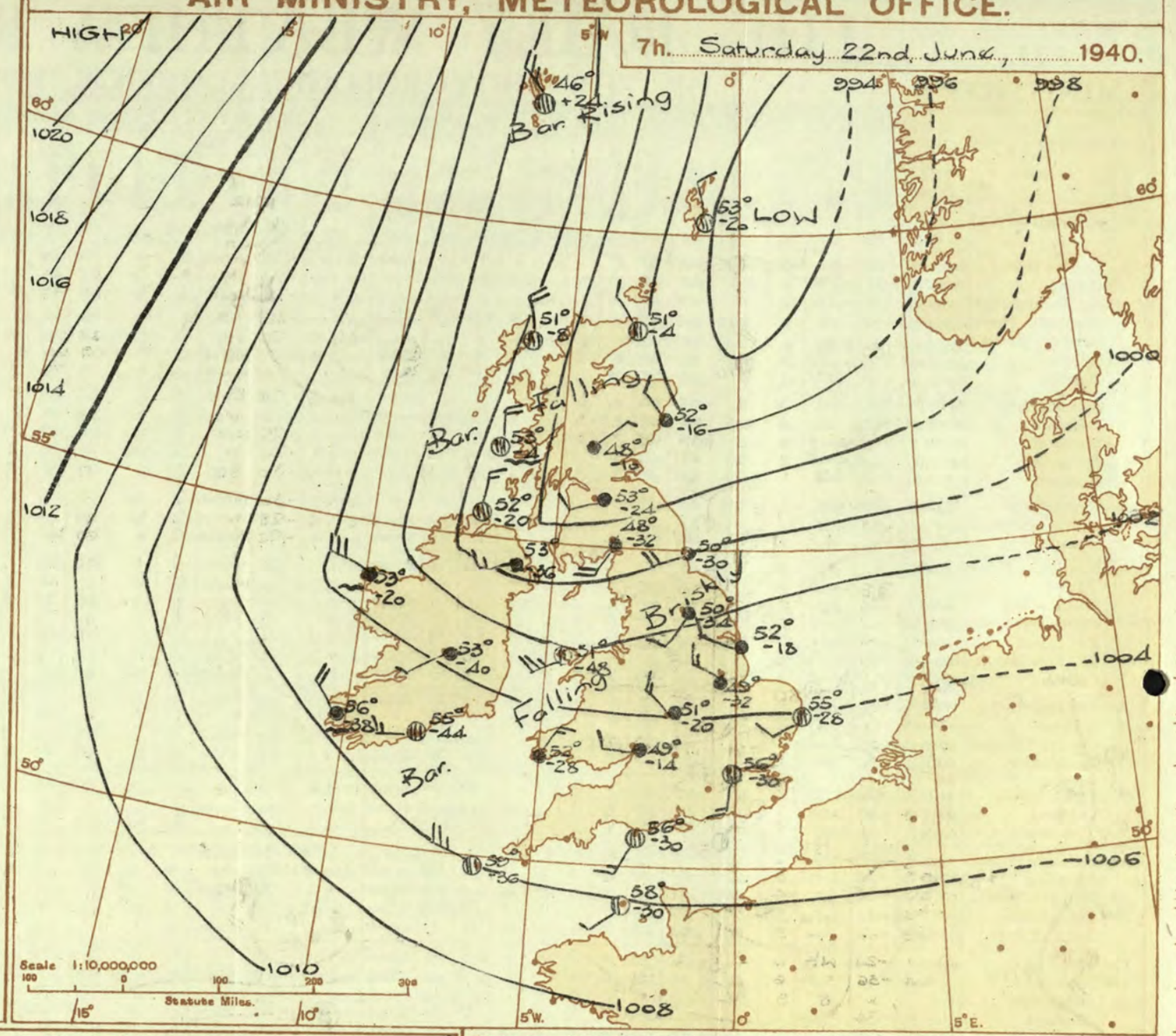
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 22nd June, 1940.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 22nd June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Moderate westerly wind, veering northwest later; intermittent or continuous rain; 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 Orkneys and Shetlands	Moderate to fresh northerly wind, veering northeast, strong in exposed places; mainly cloudy with occasional rain or showers; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate west to northwest wind, veering north and becoming fresh or strong locally; intermittent rain at first, showers later; cool.

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

GENERAL INFERENCE.

A vigorous depression between Scotland and Norway is moving south-southeast and associated troughs moving southwards over the British Isles will give periods of continuous rain in all districts, but conditions will be of a showery type in the north later in the period. Temperatures will be below average generally.

FURTHER OUTLOOK.

Unsettled.

Time of Issue of Gale Warning.

Warning of northerly gale issued at 0650 on 22/6/40 in districts 13B, 16, 18 (part of).

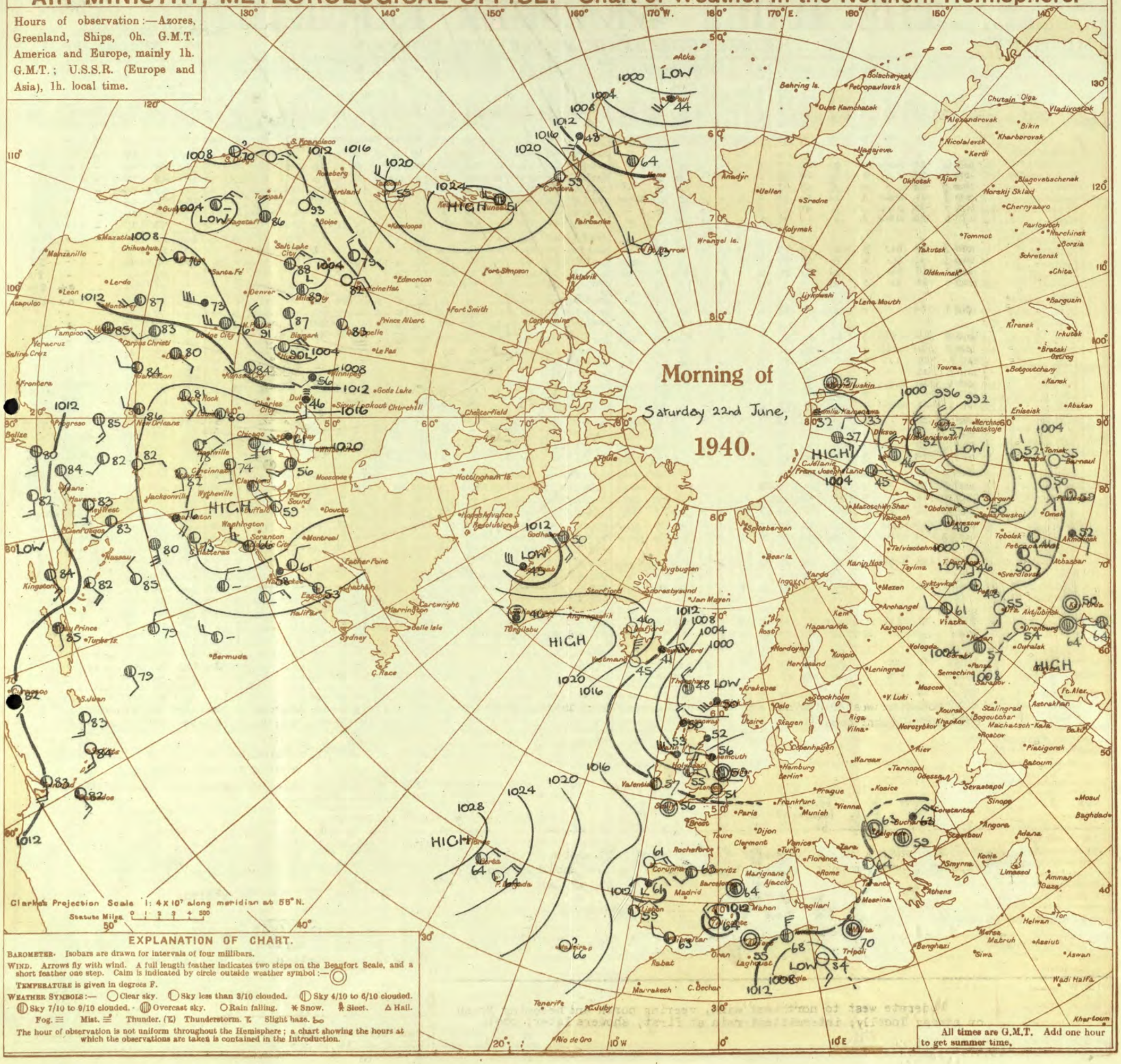
Forecasts issued at 1030.

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

Saturday 22nd June, 1940.

No. 28702

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

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	1011·6	-22	NW'N	1	b	52	97	6	-	-	-	0	0	-
	S. Farnborough	226	1010·6	-24	-	0	fo	50	92	6	-	-	-	0	0	-
	Boscombe Down	417	1010·9	-20	-	0	zo	48	92	6	-	-	-	0	0	-
	Calshot (Sthmtn.)	8	1010·9	-26	WSW	2	zo	54	92	6	5	-	-	Tr	Tr	2500
	Lympne ...	346	1012·0	-22	WNW	1	b	47	97	7	-	-	-	0	0	-
	Manston ...	154	1010·6	-26	WSW	2	b	44	97	7	-	3	1	0	1	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1010·3	-28	SW	3	c	54	85	7	-	1	-	0	7·8	-
	Gorleston ...	5	1010·3	-26	SW	2	b	49	85	7	5	-	-	1	1	2500
	Mildenhall ...	19	1009·7	-24	S'W	2	zo	53	85	6	5	1	-	4·6	9	5700
	Cranwell ...	240	1009·1	-22	W	2	zo			6	-	7	7	0	10	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1010·5	-24	-	0	zo	50	85	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010·8	-26	WSW	3	bc	57	92	7	-	5	-	4·6	4·6	7200
	Bristol ...	209	1010·3	-30	SSW	1	zo	56	85	6	-	-	-	0	0	-
	Portland Bill ...	32	1011·7	-28	W	2	b	56	85	8	-	-	-	0	0	-
	Plymouth ...	82	1011·7	-22	-	0	zo	54	92	5	-	-	-	0	0	-
	The Lizard ...	240	1012·6	-20	NNW	2	bc	51	97	7	4	-	-	4·6	4·6	2500
	Scilly (St. Mary's)	163	1012·8	-24	-	0	bc	56	92	6	5	3	-	2·3	4·6	2500
	Guernsey ...	175	1011·5	-22	NW'N	1	b	52	97	6	-	-	-	0	0	-
6	Pembroke ...	142	1010·8	-24	-	0	c	56	85	6	5	2	-	7·8	9+	1500
7	Holyhead ...	26	1009·7	-26	E	1	c	55	85	6	8	2	-	7·8	10	2500
	Chester (Sealand)	16	1009·6	-28	NW	3	ir	57	75	6	5	-	-	10	10	4000
8	Manchester ...	70	1009·4	-24	NW	3	zo	56	65	6	5	-	-	10	10	2500
10	Spurn Head ...	29	1007·5	-32	-	0	c	59	92	5	5	1	-	7·8	10	1500
	Catterick ...	175	1007·9	-24	-	0	c	55	75	8	-	2	-	9+	10	4000
	Tynemouth ...	108	1008·9	-18	W	3	c/r	56	65	6	-	2	-	10	10	1500
11	St. Abbs Head	280	1004·5	-36	W	4	c/r	52	85	7	8	2	-	4·6	9	1500
	Leuchars ...	36	1003·0	-36	WSW	2	ro/ro	52	85	7	5	2	-	9	9	800
12	Renfrew (Abbots I.)	19	1004·3	-46	WSW	4	ido	52	97	5	6	2	-	4·6	10	1500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1008·6	-32	WSW	2	c	52	97	8	8	7	-	4·6	10	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1001·5	-22	NW	3	c/pr	50	92	8	8	7	-	4·6	7·8	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	998·8	-32	SW	2	ro/ro	51	97	7	5	2	-	7·8	10	800
16	Lerwick ...	156	999·1	-10	SW	6	rr	50	97	6	6	2	-	4·6	10	450
17	Blacksod Point	18	1009·3	-52	W	6	cq	56	75	7	9	-	-	9	9	800
18	Malin Head ...	84	1004·1	-46	W	6	ro/ro	53	92	7	5	-	-	9+	9+	800
	Aldergrove ...	268	1007·4	-46	W'S	5	ir	53	85	7	6	2	-	7·8	10	800
19	Birr Castle ...	173	1011·4	-30	NW	1	pr	56	85	8	8	-	-	9	9	1500
20	Valentia Obsy.	30	1013·7	-36	NW	1	c	57	85	8	5	3	-	2·3	10	1500
	Roches Point	22	1012·5	-22	N	4	c	57	85	8	5	-	-	7·8	7·8	2500

OBSERVATIONS at 7 hr. G.M.T. 22nd June

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1003·6	-32	SW'W	2	zo	57	85	6	5	2	2	2·3	9+	4000	0	*
Croydon ...	1004·4	-30	S'W	3	c	56	85	7	-	8	6	0	7·8	-	0	*
S. Farnborough	1003·9	-30	SSW	3	zo	53	92	6	-	5	6	0	9	-	0	*
Boscombe Down	1003·2	-44	SE'S	2	zo	52	92	6	5	-	-	9+	9+	2500	1	*
Calshot (Sthmtn.)	1004·4	-30	SW	3	zo	58	97	6	5	3	-	7·8	9+	800	0	1
Lympne ...	1006·0	-30	SW'W	2	b	55	85	7	1	-	5	Tr	1	4000	0	§1
Manston ...	1004·2	-32	SW	3	zo	55	85	6	-	4	5	0	2·3	-	0	*
Shoeburyness ...	1004·2	-32	SW	2	bc	57	85	6	-	-	1	0	2·3	-	0	*
Felixstowe ...	1003·7	-32	SSW	3	fs	56	85	5	5	-	6	Tr	2·3	800	0	1
Gorleston ...	1003·7	-28	SW	2	c	55	85	6	5	5	-	2·3	7·8	2500	0	2
Mildenhall ...	1002·8	-30	SW'W	2	zo	53	85	5	-	7	-	0	9	-	0	*
Cranwell ...	1002·5	-32	NW	3	ro/ro	49	92	6	5	7	-	9	10	2500	1	*
Birmingham ...	1003·8	-20	NW	3	rr	51	92	5	6	-	-	10	10	450	1	*
Upper Heyford	1003·7	-30	SW	2	zo	54	92	5	5	-	-	10	10	2500	0	*
Ross-on-Wye	1004·6	-14	W	2	rr	49	92	6	-	2	-	10	10	1500	1	*
Hartland Point	1004·4	-22	N	3	rr	54	97	6	8	2	-	9	10	1500	1	2
Bristol ...	1003·8	-30	WSW	2	c	57	75	7	5	7	-	4·6	9+	4000	0	*
Portland Bill ...	1004·2	-30	SW	3	c	56	85	8	5	-	-	10	10	4000	0	3
Plymouth ...	1004·3	-38	-	0	cjf	56	92	5	5	3	-	9	10	4000	0	1
The Lizard ...	1004·8	-42	W'S	2	c	59	97	7	8	2	-	9	10	1500	0	2
Scilly (St. Mary's)	1005·2	-36	NW	5	c	59	97	7	8	2	-	7·8	10	1500	0	1
Guernsey ...	1005·4	-30	SW	1	bc	58	85	6	-	3	8	0	4·6	-	0	3
Pembroke ...	1004·5	-28	NE'N	2	ir	52	97	8	8	2	-	7·8	10	1500	1	1
Holyhead ...	1001·9	-48	SW'W	5	c	51	85	8	7	7	-	7·8	9+	800	1	3
Chester (Sealand)	1002·8	-34	-	0	rr	50	92	6	5	3	-	4·6	10	1500	1	*
Manchester ...	1003·1	-28	SW	3	rr	50	97	6	6	2	-	9	10	800	1	*
Spurn Head ...	1001·2	-18	WNW	2	ro/ro	52	92	5	6	2	-	4·6	10	800	1	2
Catterick ...	1001·2	-34	SW'S	2	ro/ro	50	85	8	5	2	-	2·3	10	1500	1	*
Tynemouth ...	1001·0	-30	WSW	4	rr	50	92	6	-	2	-	10	10	1500	1	1
St. Abbs Head	996·9	-30	SW	4	ro/ro	50	85	8	8	2	-	7·8	10	1500	1	3
Leuchars ...	996·8	-18	W	2	ro/ro	52	97	8	5	2	-	7·8	10	800	1	*
Renfrew (Abbots I.)	997·8	-24	WSW	2	ido	53	97	8	5	7	-	7·8	10	1500	1	*
Eskdalemuir ...	998·3	-32	SW'S	4	rr	48	92	6	-	2	-	10	10	220	1	*
Point of Ayre ...	999·5	-42	W'S	5	ro/ro	51	97	6	6	2	-	7·8	10	800	1	3
Tiree	999·4	-4	N	4	c	53	75	8	5	3	-	4·6	7·8	2500	0	4
Stornoway ...	999·5	-8	NNW	4	c/pr	51	92	8	5	7	-	7·8	9	2500	1	2
Dalwhirnie ...	998·2	-10	NE	1	ir	48	97	6	6	1	-	7·8	10	1500	1	*
Aberdeen ...	996·9	-16	NW	2	ir	52	92	6	6	2	-	7·8	10	1500	1	1
Wick ...	996·8	-4	NW	2	c/pr	51	92	8	8	7	-	7·8	9+	800	1	1
Lerwick ...	995·1	-20	NNW	2	c	53	85	8	8	7	-	4·6	7·8	800	1	*
Blacksod Point	1003·1	-20	WNW	6	ir	53	92	7	9	-	-	9	9	800	1	4
Malin Head ...	999·6	-20	N	3	c/pr	52	92	8	9	-	-	9	9	5700	0	3
Aldergrove ...	998·8	-36	W'S	3	dr	53	97	8	6	-	-	10	10	450	1	*
Birr Castle ...	1002·2	-40	SW	1	ir	53	92	7	5	-	-	10	10	2500	1	*
Valentia Obsy.	1005·7	-38	NNW	4	ir	56	92	6	6	2	-	9+	10	800	1	4
Roches Point	1003·9	-44	W	3	c/r	55	92	8	6	2	-	4·6	9+	1500	1	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 21st. Hrs. (36)
London (Kew)	70	51	38	–	-	10·7
Croydon ...	69	49	42	-	-	8·5
S. Farnborough	72	48	38	-	-	9·8
Boscombe Down	69	43	34	-	-	9·3
Calshot (Sthmtn.)	68	49	44	-	-	6·4
Lympne ...	62	43	36	-	-	7·8
Manston ...	61	43	37	-	-	8·0
Shoeburyness ...	63	51	39	-	-	7·0
Felixstowe ...	63	51	45	-	-	7·3
Gorleston ...	59	47	46	-	-	3·1
Mildenhall ...	67	48	41	-	-	8·2
Cranwell ...	71	49	48	-	0·6	8·6
Birmingham ...	70	51	39	*	0·2	8·3
Upper Heyford	68	47	39	-	-	*
Ross-on-Wye	70	49	44	-	3	10·7
Hartland Point	63	53	53	-	4	9·2
Bristol ...	71	53	45	-	-	10·2
Portland Bill ...	63	53	*	-	-	*
Plymouth ...	58	51	41	-	-	5·8
The Lizard ...	64	50	*	-	Tr	3·4
Scilly (St. Mary's)	67	55	*	-	0·2	12·9
Guernsey ...	60	51	45	-	-	3·0
Pembroke ...	(62)	50	*	-	1	13·4
Holyhead ...	62	49	48	-	4	13·4
Chester (Sealand)	69	50	49	-	10	13·0
Manchester ...	72	49	45	-	8	12·7
Spurn Head ...	63	52	*	-	1	5·6
Catterick ...	73	49	49	-	4	8·6
Tynemouth ...	73	50	49	-	13	*
St. Abbs Head	65	49	*	-	6	*
Leuchars ...	75	51	49	-	1	5·7
Renfrew (Abbots I.)	70	51	50	-	3	5·6
Eskdalemuir ...	68	47	46	-	13	6·1
Point of Ayre ...	67	48	*	-	10	11·6
Tiree	60	50	*	0·3	4	1·4
Stornoway ...	60	49	*	0·2	5	0·0
Dalwhirnie ...	66	47	45	0·2	1	1·0
Aberdeen ...	66	50	48	-	4	4·9
Wick ...	60	49	*	Tr	10	*
Lerwick ...	54	49	*	1	3	
Blacksod Point	61	52	*	-	4	*
Malin Head ...	59	50	*	0·3	9	2·3
Aldergrove ...	66	50	50	-	11	6·7
Birr Castle ...	74	51	50	-	4	5·8
Valentia Obsy.	66	55	51	Tr	1	13·2
Roches Point	69	55	*	0·1	2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset. hrs. Yesterday.	Humidity 15h. G.M.T. % Yesterday.	Humidity 9h. G.M.T. % To-day.	Visibility 9h. To-day.
KEW	18	cboy	by	bybcayw	70	51	38	-	-	10·7	*	*	7
CROYDON	217	cbc	bcyby	bmowfbc	69	49	42	-	-	8·5	*	*	7
GREENWICH (Royal Observatory) ...	149	c	b'cby	bc	69	48	35	-	-	8·7	47	58	6
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	70	52	47	-	-	10·1	52	72	*
REGENTS PK. (Botanic Gardens)‡ ...	168	*	*	*	72	52	49	-	-	11·2	52	69	*
CAMDEN SQUARE	110	bc	b	*	72	52	48	-	-	*	*	67	*
KENSINGTON	80	bc	b	*	71	51	46	-	-		47	69	*
HAMPSTEAD OBSERVATORY	450	bc	b	bc	68	49	46	-	-		*	81	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 22nd.

SOUTH KENSINGTON. Max.	Time.	Min.	Time.

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

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 21st June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 22nd June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
PARIS														
BRUSSELS														
BERLIN														
ZÜRICH														
ROME														

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 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.

Page 1.

SECRET

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday 23rd June 1940.
No. 28703

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	998·2	-20	NW'W	2	z	60	55	6	5	2	-	7-8	10	5700
	Croydon	998·7	-24	WNW	3	c	63	55	6	2	3	3	7-8	9+	2500
	S. Farnborough	998·8	-22	W'N	3	iro	58	65	7	5	2	-	4-6	10	4000
	Boscombe Down	999·2	-30	-	0	rr	53	85	6	6	2	-	4-6	10	1500
	Calshot (Soton.)	999·0	-26	NW'N	4	c	59	75	8	5	2	-	7-8	10	2500
	Lympne	999·5	-34	SW'S	4	c	66	65	7	1	-	2	4-6	9+	4000
	Manston	998·0	-32	SW	3	c	66	65	7	2	-	2	7-8	9	2500
2	Shoeburyness	998·4	-30	S'W	4	c	65	65	6	8	3	-	9	9+	4000
	Felixstowe	997·9	-30	S'E	3	z	63	75	6	2	7	-	tr	9+	4000
	Gorleston	998·6	-26	S	5	c	62	85	6	5	-	-	9+	9+	2500
	Mildenhall	998·1	-18	N	2	c	57	88	8	7	1	-	7-8	10	4000
	Cranwell	998·8	-20	-	0	ir	51	92	6	5	-	-	10	10	800
3	Birmingham	998·9	-24	SSW	2	ido	51	75	8	6	2	-	9	10	800
	Upper Heyford	999·7	-26	NW	1	rr	53	85	6	6	2	-	1	10	800
4	Ross-on-Wye	997·8	-20	NW'N	2	ido	53	85	7	6	-	-	10	10	1500
5	Hartland Point	998·3	-30	SSE	3	c	55	85	8	5	7	-	7-8	9+	2500
	Bristol	999·4	-28	S'E	2	roro	52	85	7	5	2	-	9	10	1500
	Portland Bill	1000·2	-20	NNE	2	rr	54	88	7	5	-	-	10	10	2500
	Plymouth	999·1	-26	NE	1	rr	53	97	6	6	2	-	10	10	800
	The Lizard	999·6	-20	-	0	c	55	92	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	998·6	-44	W	4	c	59	85	8	8	6	-	7-8	10	1500
	Guernsey	999·0	-32	SW	3	c	58	88	6	5	2	-	7-8	10	2500
6	Pembroke	998·0	-16	S'W	3	ir	53	92	6	8	-	-	10	10	800
7	Holyhead	996·7	-16	SW'W	3	c/d	54	97	6	6	2	-	7-8	9+	800
	Chester (Sealand)	997·2	-20	-	0	dodo	54	85	5	6	2	-	7-8	10	800
8	Manchester	997·5	-24	S	3	c	54	85	7	5	2	-	9	10	1500
10	Spurn Head	998·2	-14	-	0	rr	52	97	6	8	2	-	4-6	10	4000
	Catterick	997·0	-18	SSW	2	c	57	75	7	5	-	-	10	10	1500
	Tynemouth	997·4	-8	SW	2	c/r	53	85	6	-	2	-	10	10	1500
11	St. Abbs Head	996·5	+6	NE	3	rr	52	92	8	8	2	-	7-8	10	1500
	Leuchars	996·3	+2	ESE	3	c/pr	56	85	8	8	7	-	9	9+	1500
12	Renfrew (Abbots I.)	996·4	0	SE'E	2	pr	60	65	9	8	7	-	9	9+	1500
	Eskdalemuir	994·8	-8	ENE	3	c/r	57	75	8	5	2	-	9	10	1500
	Point of Ayre	996·2	-12	NW'N	4	c	60	85	7	8	4	-	7-8	9+	1500
13A	Tiree	999·5	+2	N	5	bc	55	75	8	8	6	-	2-3	4-6	2500
13B	Stornoway	1001·0	+10	N	6	c/pr	51	85	7	8	7	-	9	10	1500
15	Dalwhinnie	997·3	-2	N	3	ir	53	75	7	6	1	-	7-8	9+	2500
	Aberdeen	996·3	-2	NNE	3	c/pr	57	75	8	8	3	-	7-8	7-8	2500
	Wick	996·6	0	NNE	4	c/pr	55	85	8	8	7	1	4-6	7-8	1500
16	Lerwick	995·2	+2	NE	3	ir	52	92	7	6	2	-	7-8	10	800
17	Blacksod Point	1003·2	+4	NNW	6	pr	57	75	7	6	-	-	9+	9+	450
18	Malin Head	1000·2	+4	N	5	cjp	54	85	7	6	-	-	9+	9+	2500
	Aldergrove	997·8	+2	NNW	4	bc	58	65	8	8	-	-	4-6	4-6	2500
19	Birr Castle	999·6	-6	NNW	3	c/pr	56	85	8	8	1	-	7-8	10	1500
20	Valentia Obsy. †	1002·6	-6	N	6	pr	56	85	8	8	-	-	9	9	2500
	Roches Point	998·1	-12	NNW	6	c/pr	57	75	9	3	4	3	4-6	7-8	1500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	995·6	-16	W	1	roro	55	85	6	6	2	-	7-8	10	1500	1	*
Croydon	996·0	-18	WNW	2	roro	57	75	7	5	7	-	4-6	10	4000	0	*
S. Farnborough	995·2		-	0	c/r	53	85	7	8	7	-	7-8	9+	2500	1	*
Boscombe Down	995·6	-20	-	0	c	53	85	8	5	2	-	7-8	9	4000	1	*
Calshot (Soton.)	995·3	-18	ENE	2	c/r	54	85	8	5	2	-	9	10	2500	0	1
Lympne	996·9	-6	SSW	1	z	59	85	6	2	7	2	2-3	9	4000	0	§2
Manston	995·3	-6	N'W	3	z	61	75	6	2	3	2	7-8	9	2500	0	*
Shoeburyness	996·2	-10	NNW	1	c	59	75	7	5	7	-	4-6	10	2500	0	*
Felixstowe	995·4	-8	NW'N	3	c	62	65	7	2	7	8	4-6	9+	2500	0	2
Gorleston	996·1	-4	NNE	4	c	59	75	6	5	-	-	9+	9+	2500	0	3
Mildenhall	995·3	-16	NNW	2	c/r	56	85	7	5	2	-	7-8	10	1500	1	*
Cranwell	995·9	-8	S	1	c	54	85	7	5	-	-	10	10	2500	1	*
Birmingham	996·4	-16	SSE	1	c	53	75	8	7	7	-	4-6	9+	2500	1	*
Upper Heyford	996·3	-6	-	0	iro	55	75	8	6	2	-	4-6	10	1500	1	*
Ross-on-Wye	995·4	-12	W'N	3	bc	58	75	7	2	6	2	2-3	4-6	2500	1	*
Hartland Point	994·7	-14	W	1	c/r	58	85	8	2	6	-	2-3	7-8	2500	1	2
Bristol	995·6	-20	-	0	c	57	75	8	2	7	-	7-8	9+	2500	1	*
Portland Bill	996·8	-14	NE	1	o	54	85	8	5	-	-	10	10	2500	1	2
Plymouth	995·2	-22	S	3	c	56	75	8	8	3	-	9	9+	1500	1	2
The Lizard	994·9	-2	-	0	RR	53	92	7	8	2	-	9	10	1500	1	1
Scilly (St. Mary's)	993·8	-18	N'W	5	cjp	60	85	8	8	6	-	4-6	7-8	1500	1	2
Guernsey	994·7	-20	W	1	c	54	97	7	5	7	-	4-6	7-8	4000	1	3
Pembroke	995·5	-4	ESE	2	c/r	54	97	7	8	-	-	9+	9+	800	1	1
Holyhead	996·0	+6	N	4	bc	56	75	8	8	4	-	2-3	2-3	2500	1	3
Chester (Sealand)	995·2	-10	NW	3	c	58	75	8	2	-	3	7-8	9	1500	1	*
Manchester	995·5	-6	SW'S	2	dodo	54	92	6	5	7	-	7-8	10	1500	1	*
Spurn Head	995·9	-6	E	3	iro	51	92	6	8	2	-	4-6	10	450	1	2
Catterick	995·6	-4	SSW	2	c/pr	56	85	5	5	-	-	10	10	2500	1	*
Tynemouth	996·6	0	NNE	3	c/pr	55	85	7	8	-	-	7-8	7-8	2500	1	1
St. Abbs Head	996·7	+4	N	2	c	53	85	9	8	6	1	4-6	7-8	2500	1	2
Leuchars	996·7	+2	-	0	pr	55	85	7	5	2	-	7-8	9+	1500	1	*
Renfrew (Abbots I.)	997·1	+10	E	1	c/pr	54	85	9	9	6	3	7-8	9	2500	1	*
Eskdalemuir	995·4	-2	NE'E	4	c	57	75	8	5	3	-	2-3	9	1500	1	*
Point of Ayre	995·6	0	NE'E	3	bc	59	85	8	7	7	-	2-3	4-6	1500	0	2
Tiree	1000·7	+4	N	6	bc	53	85	8	8	3	-	4-6	4-6	2500		
Stornoway	1002·6	+6	N	6	c/pr	50	92	7	8	7	-	7-8	9+	1500	1	3
Dalwhinnie	999·0	+10	N	4	ir	49	85	6	6	7	-	7-8	9+	2500	1	*
Aberdeen	996·4	+2	N'W	3	c	58	65	8	8	-	-	7-8	7-8	2500	0	1
Wick	997·1	+6	NNW	5	ir	51	97	7	9	7	-	7-8	10	800	1	2
Lerwick	995·5	+4	N'E	3	c/r	51	97	7	8	7	-	7-8	9+	800	1	*
Blacksod Point	1003·8	0	N	7	PR	55	85	8	9	-	-	9	9	800	1	5
Malin Head	1001·0	+8	N	6	c	54	75	8	2	7	-	4-6	7-8	5700	0	4
Aldergrove	997·8	-2	NNW	5	c	56	75	8	2	-	-	7-8	7-8	2500	1	*
Birr Castle	999·1	0	N	4	c	63	45	8	4	8	-	4-6	7-8	1500	1	*
Valentia Obsy. †	1001·5	-6	N	7	c	58	75	8	8	-	-	7-8	7-8	2500	0	4
Roches Point	997·2	+4	N	6	bc/pr	59	65	9	3	4	3	2-3	4-6	2500	0	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 22nd (37)	13h.—18h. 22nd (38)	18h. 22nd – 1h. 23rd (39)	1h.—7h. 23rd (40)
London (Kew)	cmzwcmzy	cprocroiro	cirorormo	crorirom
Croydon	c	cyzcro	cmororcmo	crororr
S. Farnborough	cmzygc⊕	rorc	rrodoc	fzro
Boscombe Down	crro	crriro		cmoororo
Calshot (Soton.)	cmzcrod	croro	irorrmo	crororrmo
Lympne	b,cby	c⊕c	cmofgcmo	cmorocmo
Manston	bmzyc	cmo	czoiro	irobccz
Shoeburyness	bbccz	czc	cirorr	RRirc
Felixstowe	bcmzcz	czc	ccmo	cmoiR
Gorleston	cq	cqc	c	c
Mildenhall	cmzc	crormzc	crormocio	rrmo
Cranwell	cror oir	cirmzc	cciro cmo	cmororomo
Birmingham	rRro	oc	c	co
Upper Heyford	cmocrorm	crrccir	cro c.	cmorrmo
Ross-on-Wye	rrro	c	cc	bwcmo
Hartland Point	rrcrc	crc	cdoc	c
Bristol	crrRro	croroiro	cmofgw	cbcc mow
Portland Bill	corr	rro	co	co
Plymouth	crrmo	crrmzc	bcc	cmo
The Lizard	rrc	prcrr	rrprc	c
Scilly (St. Mary's)	crrqc	circ	cprr	crrc
Guernsey	bcc	crr	corr	orcid
Pembroke	irmzc	mroroc	cbc	cbcc
Holyhead	rorododc	cprobc	bcprc	prroroc
Chester (Sealand)	cmrorovdo	iRrrorormzc	cbccmopr bc	cmzo
Manchester	cmzrcmo	irorododo	dodomom	cmomc
Spurn Head	rr	iro	rr	oiro
Catterick	roroirc	cpromo	promrc	iro bc
Tynemouth	orr	cp		c
St. Abbs Head	rrc	c		idoc.
Leuchars	rocprcprc	prproprc	cprbccbc	bcb, c
Renfrew (Abbots I.)	cPRTlro	ctlropro		c, bbcc
Eskdalemuir	rroroiro	irorRc	c	c
Point of Ayre	c	prcbc	cc	cbc
Tiree	bc		bcc	bc
Stornoway	cpr	cpr	cir	cpr
Dalwhinnie	cir	cir		ciro
Aberdeen	cpbrc	probc	ciroc	cpro
Wick	cbprc	prirq	cproq	prcq
Lerwick	cproir	irproir	cpro	cpro
Blacksod Point	prc	prcq	prcq	cq
Malin Head	cprprc	bcbcc	c	c
Aldergrove	procbc	bccbc	bc, prir	cbbc
Birr Castle	cpr	cy		cproc
Valentia Obsy. †	icprqpro	probcqc	cprqbc	bccprpro
Roches Point	proqc	prbc	bcc	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

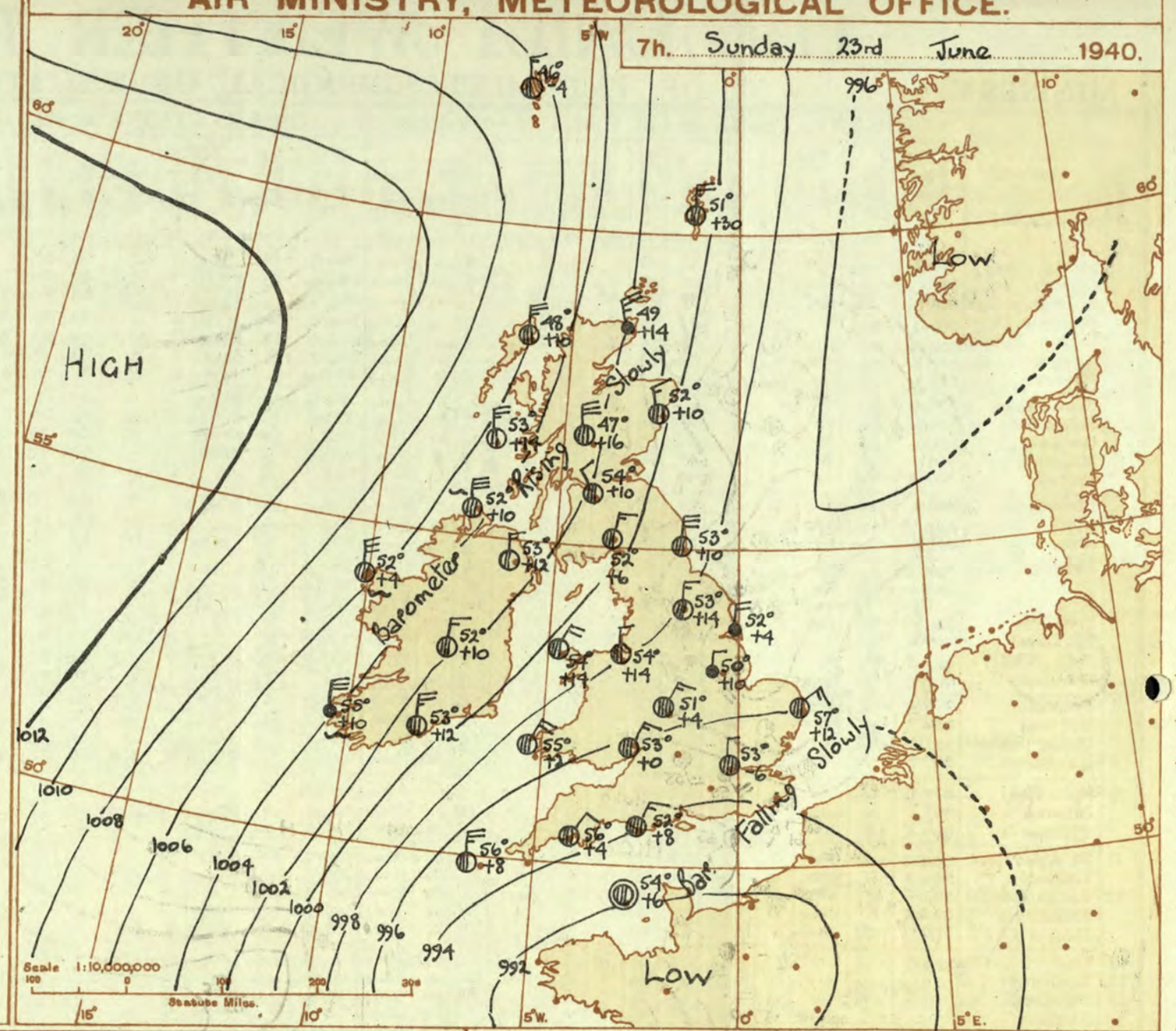
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 23rd June 1940.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light to moderate northeasterly or variable winds; cloudy or overcast, intermittent rain, local thunder; cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Moderate northeast wind; cloudy, occasional rain at first; cool.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate north to northeast wind, fresh in exposed places; mainly cloudy, occasional showers; cool.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Fresh northerly wind, strong at times, backing to northwest and decreasing later; cloudy, squally showers; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate to fresh northerly wind, strong in exposed places; cloudy, occasional showers; cool.

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.

Depressions over Southern Norway and over Northwest France connected by a trough over Southeast England are drifting slowly eastwards; while a ridge of high pressure south of Iceland will spread slowly southeastwards and become weaker; another depression north of Iceland will move southeastwards. Weather will be cool and showery in most districts with some bright intervals in the West, but in the Southeast it will be mainly dull with intermittent rain.

FURTHER OUTLOOK.

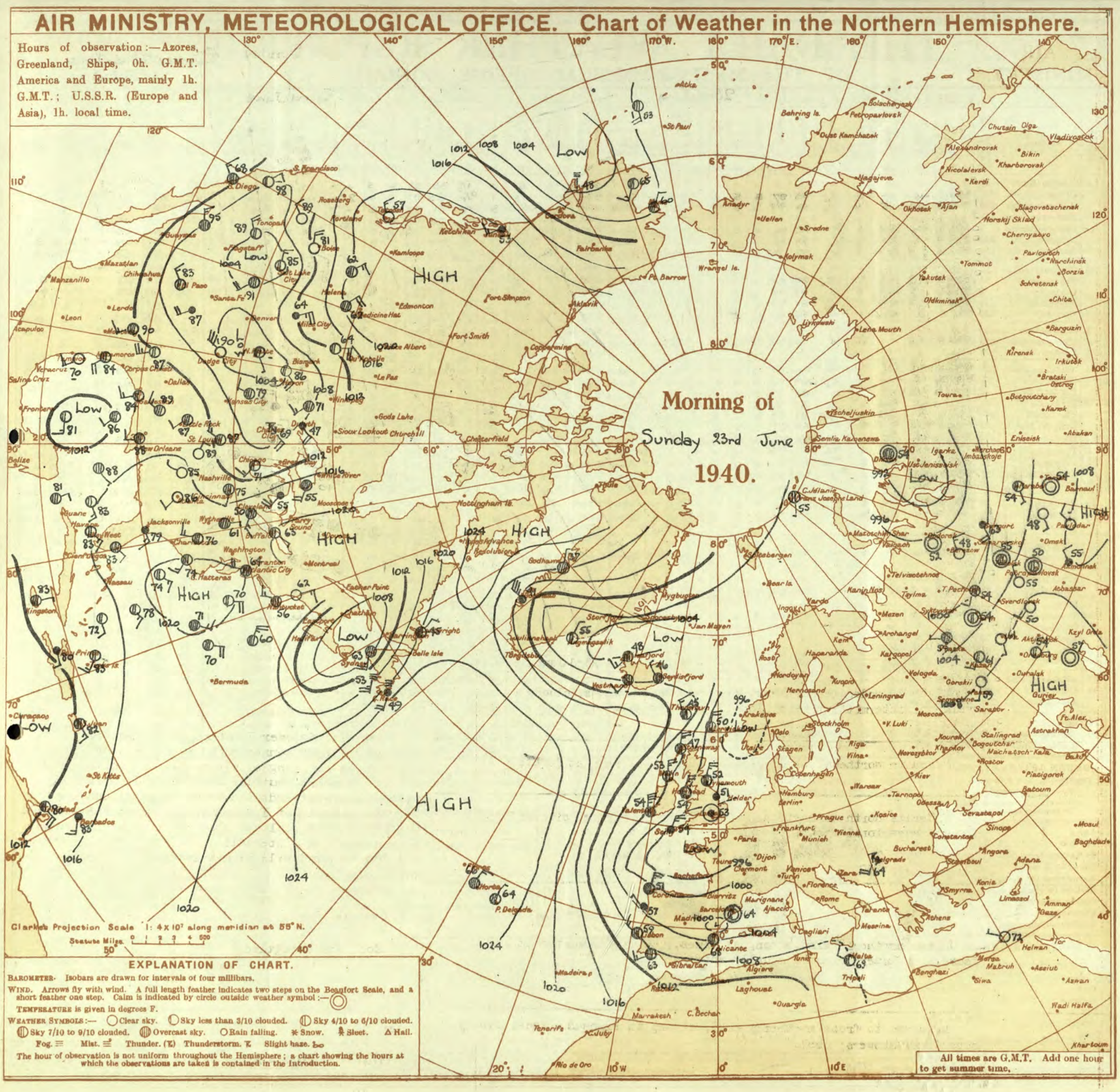
Cool and unsettled.

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.



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 23rd June 1940.

No 28,703

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

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	995.6	-4	–	0	iro	53	97	5	5	2	-	7-8	10	1500
	S. Farnborough	226	994.8	-10	N'E	3	ido	52	97	6	5	-	-	10	10	2500
	Boscombe Down	417														
	Calshot (Sthmtn.)	8	994.3	-10	NE'N	2	c/r	52	92	6	5	2	-	7-8	10	1500
	Lympne ...	346	995.5	-8	NNE	2	roro	53	92	6	6	-	-	10	10	2500
	Manston ...	154	994.3	-10	NE'N	2	iro	57	92	6	5	-	-	9+	9+	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	995.0	-6	N'E	2	zo	56	85	6	5	-	-	9	9	5700
	Gorleston ...	5	996.2	-2	ENE	3	c	57	85	6	5	3	-	4-6	9+	2500
	Mildenhall ...	19	995.2	-6	NNW	1	iro	52	97	5	5	-	-	10	10	4000
	Cranwell ...	240	996.3	0	NNW	1	c/r	50	97	6	5	7	-	7-8	9+	4000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	996.0	-4	–	0	c	51	92	7	5	2	-	9	10	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	995.2	-4	N	3	c	54	97	9	5	-	-	9+	9+	2500
	Bristol ...	209	995.3	-2	–	0	zo	49	97	5	4	3	-	2-3	9+	4000
	Portland Bill ...	32	994.9	-12	NE	3	o	52	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1005.0	-2	ENE	1	c	51	92	7	5	3	-	2-3	9	2500
	The Lizard ...	240	994.5	0	NNE	3	c/pr	52	97	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	994.8	+6	NE'N	5	rr	54	97	7	9	2	-	7-8	10	800
	Guernsey ...	175	993.3	-8	NE	1	m	52	97	6	5	-	-	10	10	1500
6	Pembroke ...	142	996.9	+4	NNE	4	bc	52	92	7	2	-	-	2-3	2-3	2500
7	Holyhead ...	26	996.5	+2	N'E	5	c/pr	54	85	8	9	-	-	9+	9+	1500
	Chester (Sealand)	16	996.2	+4	–	0	bc/pr	53	92	6	5	-	-	4-6	4-6	1500
8	Manchester ...	70	996.3	+6	NNE	2	m	53	92	4	5	3	-	7-8	10	2500
10	Spurn Head ...	29	996.5	+0	N'E	2	rr	51	97	5	6	2	-	4-6	10	450
	Catterick ...	175	997.9	+10	N'E	3	o/r	51	92	7	6	-	-	10	10	2500
	Tynemouth ...	108														
11	St. Abbs Head	280														
	Leuchars ...	36	999.9	+10	N	1	bc	51	92	8	6	6	-	4-6	7-8	2500
12	Renfrew (Abbots I.)	19														
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	998.5	+12	NE'N	4	c	55	85	8	4	3	-	2-3	7-8	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005.1	+10	N	5	c	47	85	7	5	7	-	7-8	9	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	999.8	+6	NNW	5	pro	50	97	7	5	2	-	9	10	800
16	Lerwick ...	156	998.0	+10	NNE	4	c/pr	50	97	6	8	7	-	7-8	10	450
17	Blacksod Point	18	1005.8	+2	N	6	cq	52	85	7	9	-	-	10	10	800
18	Malin Head ...	84	1003.4	+10	N	5	c	53	76	8	9	-	-	7-8	7-8	5700
	Aldergrove ...	268	1000.5	+10	N'W	3	c/r	51	85	8	5	7	-	7-8	9+	4000
19	Birr Castle ...	173														
20	Valentia Obsy.	30	1003.3	+2	N	7	bc	54	75	8	8	-	-	4-6	4-6	2500
	Roches Point	22	1000.2	+8	N	6	c	54	86	8	5	-	-	7-8	7-8	2500

OBSERVATIONS at 7 hr. G.M.T. 23rd June — 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)	994.0	-4	N	3	iro	53	92	6	5	-	-	10	10	1500	1	*	65	53	51	1	6	2.3
Croydon	994.4	-6	N'E	1	o/r	53	97	6	-	2	-	10	10	800	1	*	66	52	51	Tr	4	3.4
S. Farnborough	994.1	0	NNW	3	rr	51	97	6	6	-	-	10	10	800	1	*	66	51		1	7	
Boscombe Down	994.8	+6	N'E	3	roro	50	97	6	-	2	-	10	10	1500	1	*	60	49	48	6	3	0.1
Calshot (Sthmtn.)	993.9	+2	N	3	iro	54	92	6	5	2	-	7-8	10	2500	1	1	64	51	49	1	5	1.2
Lympne	994.1	0	ESE	2	c	57	92	7	5	-	-	10	10	800	0	§2	66	53	48	–	0.6	9.0
Manston	993.1	0	SE	2	zo	59	85	6	5	-	-	7-8	7-8	800	0	*	70	56	53	–	Tr	9.7
Shoeburyness	994.3	-8	N'E	3	c	59	85	7	5	-	-	10	10	2500	1	*	68	53	51	–		
Felixstowe	994.2	-2	NE	4	c	58	85	7	5	-	-	9+	9+	2500	1	1	67	54	52	–	3	6.2
Gorleston	996.0	+2	ENE	3	c	57	85	7	5	3	-	4-6	9+	2500	0	2	65	55	53	–	–	7.3
Mildenhall	995.1	0	N'E	3	o/r	53	97	5	-	7	-	0	10	–	1	*	64	51	51	1	2	1.3
Cranwell	997.1	+10	N'E	2	roro	50	97	6	5	-	-	10	10	2500	1	*	54	49	49	7	3	0.0
Birmingham	997.6	+4	NE	3	o	51	85	5	6	-	-	10	10	800	1	*	54	49	41	7	–	0.0
Upper Heyford	996.0	+6	N'E	2	rr	50	92	6	6	2	-	9	10	800	1	*	57	49	48	3	2	*
Ross-on-Wye	996.1	0	NE	3	zo	53	85	6	5	1	-	9+	10	2500	1	*	58	47	40	8	–	1.2
Hartland Point	995.4	+4	NE	3	c	55	85	8	3	3	-	2-3	9	2500	1	2	58	53	50	5	Tr	0.5
Bristol	995.6	+6	NE'N	2	zo	51	85	6	5	1	-	9	10	2500	1	*	57	47	40	11	–	0.7
Portland Bill	994.2	+8	NE	3	o	52	92	7	5	-	-	10	10	4000	1	3	58	50	*	5	–	
Plymouth	995.0	+4	ENE	1	zo	56	75	6	7	3	-	7-8	7-8	1500	1	1	58	50	47	14	Tr	1.0
The Lizard	995.2	+8	NNE	3	c	55	92	8	8	6	-	7-8	7-8	2500	1	2	59	51	*	16	9	0.0
Scilly (St. Mary's)	995.3	+8	NNE	5	c	56	92	8	8	7	3	4-6	9+	1500	1	3	61	52	*	10	12	3.4
Guernsey	992.8	+6	–	0	c/d	54	97	7	5	1	-	7-8	10	1500	1	3	63	53	53	3	4	3.2
Pembroke	996.9	+2	NE	4	c	56	92	7	8	7	-	4-6	7-8	800	1	2	57	50	*	3	1	0.0
Holyhead	998.6	+14	NE'N	4	cjp	54	85	6	5	3	-	4-6	9	1500	1	3	59	51	50	0.3	0.6	4.4
Chester (Sealand)	998.4	+14	N	2	zo	54	75	6	8	-	-	9+	9+	1500	1	*	58	50	43	8	Tr	0.9
Manchester	997.8	+10	NE'N	4	c	54	75	8	8	3	-	7-8	9+	4000	1		56	52	50	3	0.1	0.0
Spurn Head	996.9	+4	N'E	3	roro	52	92	6	6	2	-	2-3	10	450	1	2	54	50	*	6	1	0.0
Catterick	999.3	+14	N'E	3	c	53	85	7	2	3	-	4-6	9	2500	1	*	58	49	47	Tr	0.4	0.1
Tynemouth	999.0	+10	N	6	c	53	85	8	8	-	-	7-8	7-8	2500	1	3	58	52	50	–	–	*
St. Abbs Head	999.7	+6	NNW	4	ido	51	92	8	8	2	-	7-8	10	1500	1	3	54	48	*	1	0.4	*
Leuchars	1000.7	+8	NNW	2	c	53	75	9	5	-	-	9+	9+	1500	1	*	60	46	36	2	1	1.1
Renfrew (Abbots I.)	1002.0	+10	NNW	2	c	54	75	9	8	-	-	9	9	4000	1	*	63	46	39	5	0.2	2.0
Eskdalemuir	1000.1	+6	NNE	3	c	52	65	8	5	-	-	7-8	7-8	2500	1		58	46	43	5	–	0.6
Point of Ayre	1000.5	+12	NE	4	bc	55	75	8	4	4	4	1	2-3	4000	0	3	63	53	*	0.4	–	7.0
Tiree	1005.0	+14	N	5	bc	53	65	8	5	4	–	2-3	4-6	4000	0	·	57	50	*		–	9.8
Stornoway	1006.3	+10	N	5	c/pr	48	92	7	8	7	-	7-8	7-8	1500	1	3	56	46	*	2	2	1.0
Dalwhirnie	1003.3	+16	N	6	c	47	75	7	4	6	-	7-8	9+	2500	0	*	57	45	41	2	Tr	0.4
Aberdeen	1000.4	+10	N	3	c/pr	52	92	8	9	-	-	9+	9+	1500	1	1	59	48	45	0.1	Tr	4.3
Wick	1001.8	+14	NNW	6	id	49	97	6	5	2	-	9	10	450	1	3	57	48	*	2	1	
Lerwick	1001.6	+30	N'E	5	c/pr	51	92	8	8	7	-	7-8	9	800	1	*	57	49	*	4	0.6	1.4
Blacksod Point	1006.7	+4	N	6	cq	52	86	7	9	4	-	7-8	9	800	1	5	59	50	*	3	1	*
Malin Head	1004.5	+10	N'E	6	c	62	75	8	8	-	-	7-8	7-8	5700	0	4	56	48	*	0.4	/	7.9
Aldergrove	1002.4	+12	N'W	3	bc	53	75	8	5	-	-	4-6	4-6	1500	1	*	60	50	48	3	1	8.4
Birr Castle	1003.1	+10	NNE	3	c	52	75	8	8	7	-	7-8	9	1500	1	*	63	50	48	1	0.2	7.0
Valentia Obsy.	1004.4	+10	N	5	pro	55	75	8	9	-	-	7-8	7-8	2500	1	4	60	51	48	2	1	8.6
Roches Point	1001.1	+12	N	5	c	53	85	8	5	-	-	9+	9+	2500	1	2	64	52	*	1	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	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	cmowcmoy	cprcroro	circromo	65	53	51	1	6	2.3	•	•	6
Croydon	217	c	cyzocro	cmororo	66	52	51	Tr	4	3.4	•	•	5
Greenwich (Royal Observatory)	149	cy	ciro	rridomo	68	52	50	Tr	Tr	4.4	63	91	
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park)	27	•	•	•	65	53	53	5		·	83	97	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•									•
Camden Square	110	bc	cr	•	67	52	52	0.5	4	•	•	92	•
Kensington	80	bccp	cr	•	67	52	50	1	5		81	94	•
Hampstead Observatory	450	bc	or	or	64	49	47	–	6		•	99	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time	Min.	Time.
0.1	18h 22nd	<0.1	Rest of Period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 22nd June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 23rd June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											•	•		

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

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

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Monday 24th June 1940.

No. 28704

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	995·2	+10	N'E	3	iro	59	85	6	5	-	-	10	10	1500
	Croydon	995·1	+8	W'S	2	zo	60	85	5	9	-	-	10	10	2500
	S. Farnborough	995·3	+8	N	3	zo	56	92	6	6	-	-	10	10	800
	Boscombe Down	996·2	+12	N'E	3	ido	54	85	6	5	2	-	9	10	800
	Calshot (Soton.)	995·5	+10	N'E	3	c	57	85	7	5	-	-	10	10	1500
	Lympne	996·4	+14	SSW	2	bc	65	75	7	2	7	6	1	2-3	2500
	Manston	995·5	+14	SE	3	c	67	65	7	2	4	6	2-3	7-8	2500
2	Shoeburyness	996·0	+10	E'S	3	bc	67	65	7	2	4	-	4-6	4-6	2500
	Felixstowe	996·0	+14	SE	2	zo	65	75	6	8	-	8	1	2-3	1500
	Gorleston	997·2	+10	E'N	4	c	59	92	6	5	-	-	10	10	2500
	Mildenhall	996·3	+8	NE	3	c	60	75	8	5	2	-	9	10	2500
	Cranwell	999·1	+12	NNE	3	roro	53	97	6	5	-	-	10	10	800
3	Birmingham	999·1	+6	NNE	3	iro	54	85	5	6	-	-	10	10	1500
	Upper Heyford	997·1	+8	NNE	3	id	52	97	5	6	2	-	9	10	450
4	Ross-on-Wye	998·3	+4	NE'N	4	c	56	85	6	5	-	-	10	10	1500
5	Hartland Point	996·7	+6	NE	4	c	58	75	7	5	7	-	7-8	9+	2500
	Bristol	997·7	+4	NNE	4	zo	55	85	6	5	2	-	9+	10	1500
	Portland Bill	996·8	+10	NE	3	co	59	92	7	5	-	-	10	10	4000
	Plymouth	996·1	+6	NNE	4	zo	61	65	6	8	-	-	9+	9+	2500
	The Lizard	996·5	+8	N	3	co	60	75	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	997·2	+10	NNE	5	c	59	85	8	8	6	-	4-6	7-8	1500
	Guernsey	994·7	+10	ENE	4	o	58	92	6	5	-	-	10	10	1500
6	Pembroke	999·1	+12	NE	6	bcq	62	75	5	8	3	-	4-6	4-6	1500
7	Holyhead	1001·2	+10	N'E	5	bc	58	75	9	8	3	4	1	4-6	2500
	Chester (Sealand)	999·7	+6	N'W	1	c	58	75	7	8	-	-	9+	9+	1500
8	Manchester	999·7	+8	NNE	4	c	61	65	7	8	-	-	7-8	10	2500
10	Spurn Head	999·2	+8	ENE	3	roro	58	97	6	5	-	-	10	10	450
	Catterick	1000·8	+10	NE'N	3	c	60	65	7	8	7	-	4-6	9	2500
	Tynemouth	1001·2	+8	N	6	bc	55	85	8	2	3	1	2-3	4-6	2500
11	St. Abbs Head	1002·5	+12	N	4	cq	53	85	8	3	6	5	4-6	7-8	1500
	Leuchars	1002·1	+6	NE	3	c	62	65	9	8	-	3	7-8	7-8	2500
12	Renfrew (Abbots I.)	1002·5	+2	NE	2	c	63	45	9	8	3	-	7-8	9	4000
	Eskdalemuir	1001·7	+6	NE	3	pr	57	75	8	8	-	-	9	9	2500
	Point of Ayre	1002·3	+10	ENE	2	bc	63	55	8	1	6	5	Tr	2-3	2500
13A	Tiree	1005·2	0	N	4	bc	56	65	8	1	4	1	1	2-3	4000
13B	Stornoway	1006·3	+2	NNE	4	c/pr	53	65	8	5	7	-	7-8	9+	1500
15	Dalwhinnie	1004·2	+2	NE	4	c	53	65	8	4	6	-	7-8	9+	4000
	Aberdeen	1003·2	+14	N'E	3	c/pr	55	85	8	8	-	-	9+	9+	1500
	Wick	1004·1	+6	NNE	5	c/pr	51	97	8	8	7	-	7-8	9	800
16	Lerwick	1002·9	+4	NNE	5	c/pr	52	92	8	8	7	-	7-8	9+	800
17	Blacksod Point	1008·2	+6	N	5	bc	58	65	8	3	-	-	4-6	4-6	2500
18	Malin Head	1006·3	+6	N'E	4	bc	55	65	8	1	6	-	2-3	4-6	5700
	Aldergrove	1003·6	+6	N'W	3	c/pr	59	65	9	2	-	-	9	9	2500
19	Birr Castle	1003·9	+6	NNE	2	c	63	55	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy. †	1005·5	+4	NNE	5	bc	60	65	9	2	-	-	4-6	4-6	2500
	Roches Point	1002·5	+4	N	5	b	62	55	9	8	-	-	7-8	7-8	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	996·8	+8	N	2	bc	62	85	7	5	-	1	4-6	4-6	1500	1	*
Croydon	996·1	+6	NNW	2	bc	65	75	6	2	6	1	2-3	2-3	4000	1	*
S. Farnborough	996·8	+8	NNE	3	zo	59	85	6	5	-	-	9+	9+	1500	1	*
Boscombe Down	997·5	+6	NNE	4	c	54	85	6	5	2	-	9	10	800	1	*
Calshot (Soton.)	996·7	+10	N'E	4	zo	59	85	6	5	-	-	10	10	1500	0	1
Lympne	997·3	+10	ESE	2	bc	63	75	8	8	3	-	2-3	4-6	4000	0	§1
Manston	997·6	+8	ENE	2	bc	65	75	6	5	3	6	1	4-6	2500	0	*
Shoeburyness	997·1	+12	ENE	3	bc	65	75	7	2	4	-	1	2-3	2500	0	*
Felixstowe	997·1	+8	E'N	3	zo	63	85	6	2	-	1	Tr	Tr	2500	0	1
Gorleston	998·5	+12	NE	2	F+	57	92	1	-	-	-	10	10	<150	0	2
Mildenhall	997·5	+10	NNE	4	c	60	85	6	8	-	-	7-8	7-8	5700	1	*
Cranwell	1000·3	+6	NNE	3	c	56	92	7	5	-	-	10	10	1500	1	*
Birmingham	1000·8	+10	NNE	3	roro	53	92	5	6	-	-	10	10	800	1	*
Upper Heyford	998·7	+6	NNE	4	dodo	53	92	7	6	2	-	4-6	10	800	1	*
Ross-on-Wye	999·2	+10	NE'N	3	zo	56	85	6	6	1	-	10	10	800	1	*
Hartland Point	998·9	+12	NE	4	c	58	85	8	6	2	-	9+	10	2500	0	3 *
Bristol	998·9	+4	NNE	3	c	56	85	7	5	-	-	10	10	2500	1	
Portland Bill	996·7	+8	NE	4	c	57	92	7	5	-	-	10	10	4000	1	4
Plymouth	998·1	+14	NNE	4	zo	60	65	6	7	-	-	10	10	4000	0	2
The Lizard	998·0	+10	N	4	co	60	75	8	8	2	-	7-8	9+	1500	1	2
Scilly (St. Mary's)	999·1	+12	N'E	6	b	58	75	8	2	-	-	1	1	2500	1	4
Guernsey	996·1	+12	NE	3	c	58	85	7	8	7	-	4-6	10	2500	1	3
Pembroke	1001·6	+10	NNE	6	bcq	58	75	8	2	4	-	2-3	4-6	2500	1	2
Holyhead	1001·9	+2	N	5	b	57	85	8	2	4	-	Tr	Tr	2500	0	3
Chester (Sealand)	1000·9	+12	NE	1	c	62	65	7	8	3	-	7-8	9+	2500	1	*
Manchester	1000·9	+10	NE'E	4	c	62	55	8	7	3	-	1	9	2500	1	*
Spurn Head	1000·2	+8	N	4	o	55	92	7	5	-	-	10	10	450	1	3
Catterick	1002·0	0	NE'N	3	bc	58	75	8	8	3	-	4-6	4-6	4000	0	*
Tynemouth	1003·6	+8	NNE	6	c/pr	55	85	8	8	-	-	7-8	7-8	2500	1	2
St. Abbs Head	1004·0	+8	N	3	bc	54	85	8	2	4	-	2-3	2-3	2500	0	3
Leuchars	1003·6	+10	E	3	c/pr	56	86	8	9	-	-	9	9	1500	1	*
Renfrew (Abbots I.)	1003·2	+2	ESE	2	c	62	55	9	8	6	1	7-8	7-8	2500	0	*
Eskdalemuir																*
Point of Ayre	1003·3	+2	N'E	3	cjp	59	75	8	9	7	-	4-6	7-8	1500	0	2
Tiree	1005·5	0	N'W	4	bc	56	65	8	1	3	6	Tr	4-6	4000	0	4
Stornoway	1005·8	-10	ENE	3	c	51	75	8	5	-	8	7-8	9+	2500	1	2
Dalwhinnie	1004·3	0	NE	3	c	55	65	8	4	6	5	2-3	7-8	4000	0	*
Aberdeen	1003·7	+2	N'W	3	b	57	65	8	8	-	5	1	1	2500	0	1
Wick	1004·4	0	NNE	2	pro	50	92	7	9	7	-	7-8	10	800	1	2
Lerwick	1003·2	0	NNE	4	c	52	85	8	5	7	-	4-6	7-8	1500	1	*
Blacksod Point	1008·1	+2	N	5	bc	56	65	8	-	6	-	0	4-6	-	0	3
Malin Head	1006·0	0	N	3	c	53	75	8	9	-	-	7-8	7-8	5700	0	3
Aldergrove	1004·9	+10	NNW	4	b	57	55	9	8	-	-	1	1	2500	0	*
Birr Castle	1004·8	+4	NNE	2	bc	64	45	8	2	-	4	2-3	4-6	2500	0	*
Valentia Obsy. †	1006·7	+10	N'W	5	bc	59	75	8	2	-	4	1	2-3	2500	0	3
Roches Point	1003·5	+8	N'E	4	c	62	65	9	5	4	-	4-6	7-8	2500	0	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 23rd (37)	Weather 13h.—18h. 23rd (38)	Weather 18h. 23rd to 1h. 24th (39)	Weather 1h.—7h. 24th (40)
London (Kew)	cidicm	cidbcm	bcbm	bbccm
Croydon	rorodfc	cmbcm	bzbmcm	omm
S. Farnborough	Rorc	cmc	cm	cm
Boscombe Down	crroid	ciddcm	cm	om
Calshot (Soton.)	circm	cidcm	cmbcm	cm
Lympne	cmebc	bc	bccbm	bmwcm
Manston	cmezbc	bccbc	cbdmw	bccmw
Shoeburyness	cbc	bc	bccm	cmirc
Felixstowe	cm	bcz bz	bxcm	omcm
Gorleston	c	cbcoF	offm	omc
Mildenhall	cmc	c	cmcmo	cmocmw
Cranwell	crrom	crrmc	ccm	cmfbbc
Birmingham	oiro	oroo	oroc	c
Upper Heyford	crrrm	cddddm	cddcm	cmeidcdd
Ross-on-Wye	cmodcm	omdrcm	omrc	cy
Hartland Point	cbcc	c	c	c
Bristol	cwrcm	c	cdcm	cm
Portland Bill	oc	c	co	c
Plymouth	cz	cz	cm	cm
The Lizard	c	c	bc	cbc
Scilly (St. Mary's)	c	cbcb	bbcb	bbc
Guernsey	ciro	oc	co	oz
Pembroke	cprbcq	cbcq	bcc	cbc
Holyhead	cjpbc	bcb	bcwb	bwb
Chester (Sealand)	czjp	cprc	cbcmw	bbcbwfm
Manchester	c	ccyz	bc	mfgwbm
Spurn Head	iro	o	cbc	c
Catterick	c	cbc	bccbcm	bcmbw
Tynemouth	cbcc	bccpo	cbc	bc
St. Abbs Head	preq	cqbc	bc	bcc
Leuchars	cbcc	cbccprc	cprc	cbcc
Renfrew (Abbots I.)	c yy	cprbcy	cybczm	cbcmc
Eskdalemuir	cbccpro		bcb	bbccw
Point of Ayre	cbc	bcc	c	bc
Tiree	bc	bbc		
Stornoway	cpro	c	cpr	cpro
Dalwhinnie	c	ciro	•	c
Aberdeen	cpro	cprcb	bbc	bcc
Wick	idpro	cpr	cprc	circ
Lerwick	cpro	c	c	crro
Blacksod Point	bc	bc	bc	id
Malin Head	bc	bc	c	cuc
Aldergrove	bccprc	cbcby	bybcbw	bwbc
Birr Castle	cy	cbcy	bc	b
Valentia Obsy. †	procbc	bccbcbbc	bccbcw	bcwbco
Roches Point	cy	bcyc	bc	b

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

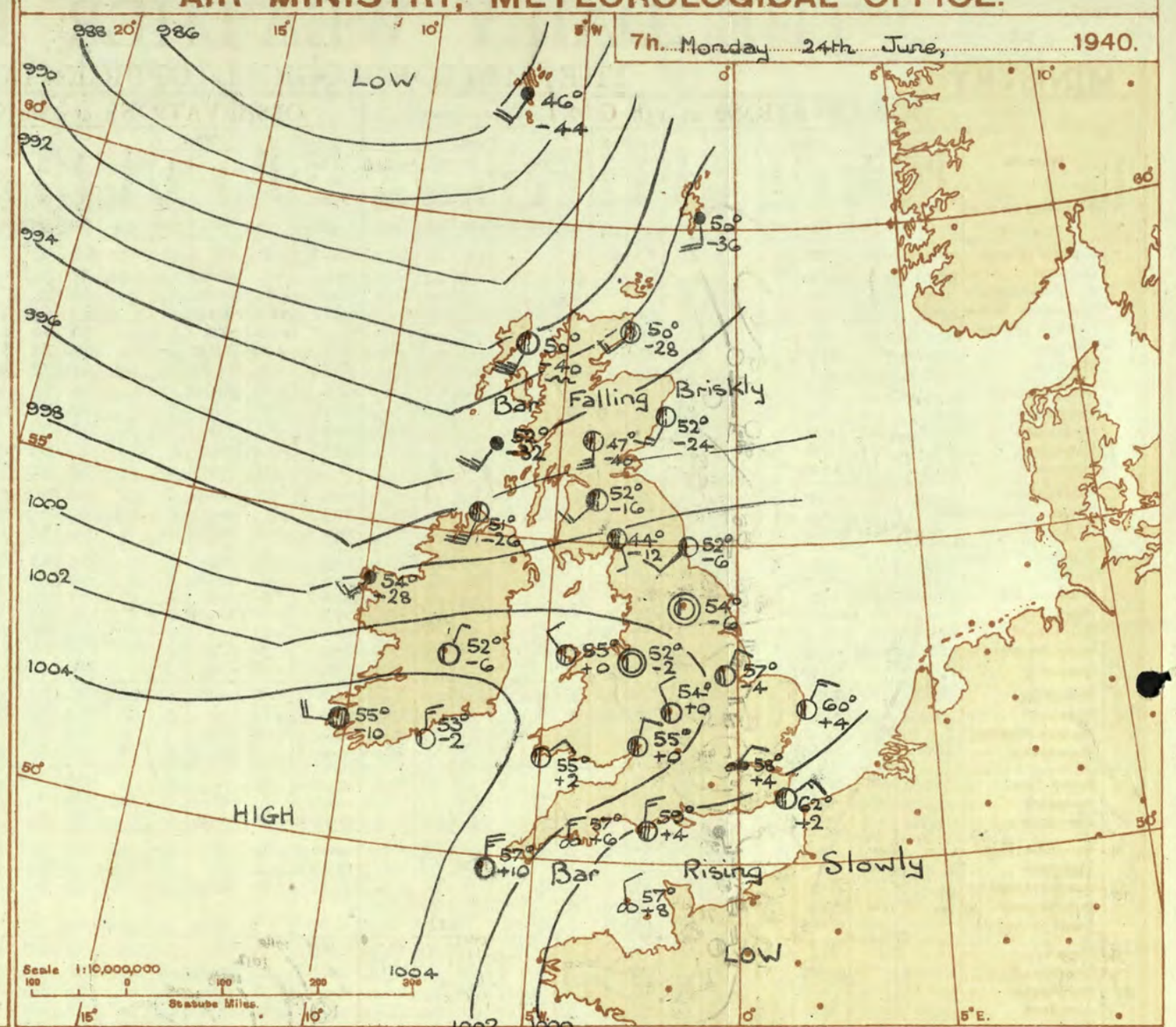
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 24th June, 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 24th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light northeast wind, backing southwest later and increasing to moderate; fair at first, intermittent rain later; cool.
5 S.W. England 6 South Wales ...	Light northerly wind, backing west to southwest later; bright intervals today, cloudy with occasional rain later; rather cool.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light westerly wind, becoming southwest, moderate to fresh; cloudy, intermittent rain; 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	Moderate to fresh southwest wind, increasing to strong to gale in exposed places; veering west to northwest later; intermittent or continuous rain; cool.
16 Orkneys and Shetlands	Fresh southerly wind, increasing to strong to gale; intermittent rain; cool.
17 N.W. Ireland 18 N. E. Ireland	Fresh southwest to west wind, increasing to gale force locally; overcast, intermittent rain, showers later; cool.
19 S. E. Ireland 20 S. W. Ireland	Moderate westerly wind, freshening; cloudy, occasional rain, showers later; cool.

GENERAL INFERENCE.

Pressure is low over the Continent, and a feeble ridge of high pressure over the British Isles is giving way as a deep depression off S.E. Iceland moves southeast. After a fair interval in southern districts, intermittent or continuous rain will spread southwards from Scotland to the rest of the British Isles. Temperature will remain cool.

FURTHER OUTLOOK.

Cool and unsettled.

GALE WARNING.

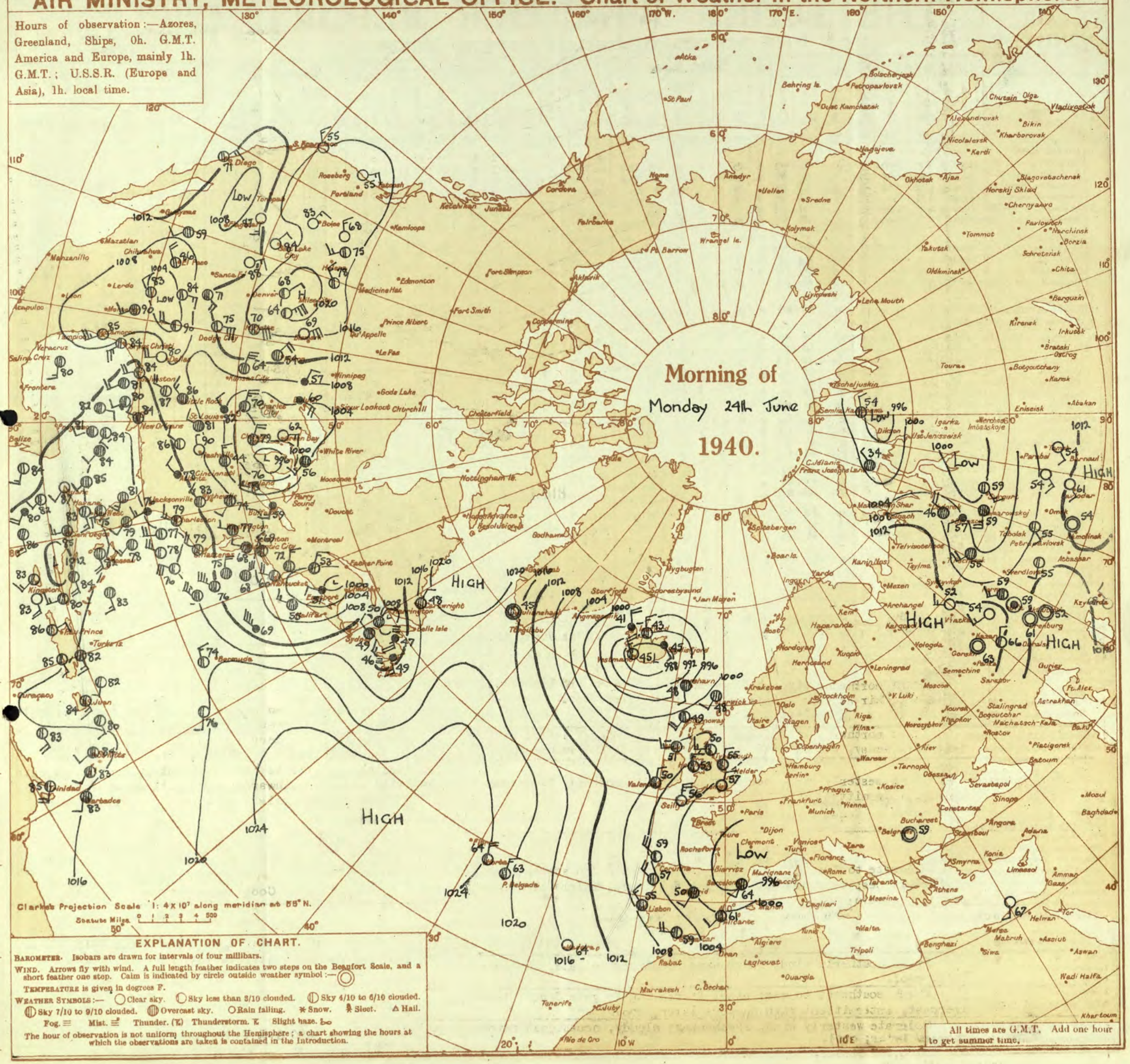
Warning of southwest gale issued at 0815 G.M.T. on 24/6/40 in districts 13A, 13B, 15, 16, 17(part) 18(part).

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.



Page 4.
AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Monday 24th June 1940.
No. 28,704

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	999.9	+6	NE'N	1	m	57	92	4	5	-	-	10	10	450
	S. Farnborough	226	1000.0	+6	N'E	2	z	57	92	6	5	-	-	10	10	800
	Boscombe Down	417	1000.0	+2	N'E	3	z	55	97	5	5	-	-	10	10	450
	Calshot (Sthmtn.)	8	998.8	+2	N	3	z	59	92	6	5	-	-	10	10	2500
	Lympne ...	346	999.2	-6	NE'N	3	b	57	92	6	-	-	1	0	Tr	-
	Manston ...	154	998.8	-2	NE'N	3	z	58	92	6	5	4	-	2-3	4-6	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1000.0	+6	NE'N	2	z	57	92	5	5	-	-	9+	9+	450
	Gorleston ...	5	1000.4	0	NE'N	4	m	56	97	4	5	-	-	10	10	450
	Mildenhall ...	19	1000.4	0	NNE	2	z	57	92	6	5	-	-	10	10	800
	Cranwell ...	240	1002.2	-2	NNW	2	z	53	92	6	5	-	-	10	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1001.1	+4	NNE	3	z	54	92	6	5	-	-	10	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1001.0	+4	NE	4	c	57	85	8	6	2	-	9	10	2500
	Bristol ...	209	1001.4	+4	NE'N	4	z	54	85	6	5	-	-	10	10	800
	Portland Bill ...	32	999.2	+12	NE	4	o	55	92	7	5	-	-	10	10	2500
	Plymouth ...	82	1000.7	+2	NNE	4	z	57	85	6	5	-	-	7-8	7-8	2500
	The Lizard ...	240	1001.3	+4	NW	2	bc	53	97	7	4	4	-	2-3	4-6	2500
	Scilly (St. Mary's)	163	1002.0	+6	N'E	5	b	56	85	8	-	-	-	0	0	-
	Guernsey ...	175	998.3	+6	NNE	1	o	56	97	6	5	-	-	10	10	2500
6	Pembroke ...	142	1002.1	+2	N'E	4	c	58	85	8	8	4	-	4-6	7-8	2500
7	Holyhead ...	26	1003.0	-2	N	3	bc	49	92	9	1	4	4	Tr	2-3	4000
	Chester (Sealand)	16	1003.0	+2	-	0	z	49	92	5	5	3	-	4-6	4-6	2500
8	Manchester ...	70	1002.9	0	N	2	bc	46	92	7	-	3	-	0	4-6	-
10	Spurn Head ...	29	1001.5	0	N'E	2	bc	55	97	6	-	4	3	0	4-6	-
	Catterick ...	175	1003.3	-4	-	0	z	48	97	6	5	3	-	2-3	2-3	4000
	Tynemouth ...	108	1004.0	-6	W	3	bc	50	85	6	2	-	-	2-3	2-3	2500
11	St. Abbs Head	280	1002.9	-10	W	2	bc	48	85	8	4	4	-	1	2-3	2500
	Leuchars ...	36	1002.6	-10	S	1	c	50	97	8	5	-	-	9	9	1500
12	Renfrew (Abbots I.)	19	1003.0	-2	SSW	1	z	48	85	6	5	-	-	9	9	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1002.6	0	N'W	4	c	54	92	8	8	4	-	7-8	9	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1001.3	-30	SSW	4	c/pr	49	85	7	5	7	-	7-8	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1000.0	-22	SW	3	c	46	97	7	5	7	8	4-6	7-8	800
16	Lerwick ...	156	1001.2	-16	SW'S	2	c	48	92	8	5	7	-	7-8	9	1500
17	Blacksod Point	18	1005.7	-14	W	2	c	49	85	8	-	6	-	0	7-8	-
18	Malin Head ...	84	1003.8	-16	W	3	c	51	75	8	6	8	-	2-3	7-8	5700
	Aldergrove ...	268	1004.7	-6	-	0	b	40	92	8	5	-	1	Tr	Tr	4000
19	Birr Castle ...	173	1006.5	+2	NNE	1	bc	46	85	8	-	3	-	0	2-3	-
20	Valentia Obsy.	30	1007.7	-4	N'E	1	bc	50	85	8	7	-	1	1	2-3	2500
	Roches Point	22	1005.6	+2	N	4	bc	54	85	8	5	-	5	Tr	2-3	4000

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Med. (24)	High (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 23rd Hrs. (36)
London (Kew)	1000.6	+4	NNE	2	z	58	85	6	5	-	-	10	10	1500	1	*	62	56	53	0.1	-	2.3
Croydon	1000.7	+4	NE'N	2	z	58	92	5	5	-	-	10	10	1500	1	*	66	57	48	1	-	3.9
S. Farnborough	1000.5	+6	N'E	3	z	57	85	6	5	-	-	10	10	800	1	*	59	56	51	14	-	0.0
Boscombe Down	1000.6	+8	N'E	3	z	55	97	5	5	-	-	10	10	450	1	*	55	53	52	1	-	0.0
Calshot (Sthmtn.)	999.7	+6	N	3	z	60	85	6	5	3	-	4-6	7-8	800	0		60	57	53	Tr	-	0.2
Lympne	999.9	+2	NE	3	c	62	85	7	-	3	-	0	7-8	-	0	§2	69	56	54	-	-	7.4
Manston	999.5	0	NE	3	z	59	92	5	5	3	-	4-6	7-8	450	0	*	72	56	55	-	-	9.4
Shoeburyness	1000.8	+4	NNE	3	c	60	85	6	5	3	-	4-6	9+	800	0	*	68	57	54	-	Tr	6.8
Felixstowe	1000.4	+2	NNE	2	z	59	85	6	5	-	-	9+	9+	800	0	1	66	56	56	-	-	7.3
Gorleston	1000.9	+4	NNE	3	bc	60	75	7	5	-	-	4-6	4-6	2500	0	2	60	56	54	-	-	2.8
Mildenhall	1000.7	+2	NNE	2	z	58	85	6	5	2	-	9	10	1500	0	*	64	55	44	-	-	0.7
Cranwell	1001.7	-4	NNE	2	bc	57	85	7	1	-	-	4-6	4-6	1500	0	*	56	51	49	6	-	0.0
Birmingham	1002.6	0	NNW	2	bc	54	85	6	1	-	-	4-6	4-6	1500	1	*	55	51	47	2	Tr	0.0
Upper Heyford	1001.3	+2	N	2	d d	54	92	6	5	-	-	10	10	800	1	*	53	53	51	5	0.1	*
Ross-on-Wye	1002.2	0	N'E	2	c	55	85	6	5	-	-	7-8	7-8	2500	1	*	56	53	52	Tr	0.1	0.0
Hartland Point	1002.1	+8	NNE	3	c	56	92	8	5	-	-	7-8	7-8	2500	0	3	61	56	54	-	-	3.7
Bristol	1002.2	+6	NNE	2	z	54	92	6	5	-	-	10	10	800	1	*	57	53	53	0.1	Tr	0.0
Portland Bill	999.6	+4	N	3	c	59	92	7	5	4	-	4-6	9	4000	1	3	60	58	*	-	-	
Plymouth	1001.7	+6	N	3	z	57	85	6	5	-	-	10	10	2500	0	1	63	56	54	-	-	2.8
The Lizard	1002.1	+4	N	3	bc	57	92	8	8	6	-	4-6	4-6	2500	1	2	62	53		Tr	-	2.9
Scilly (St. Mary's)	1003.3	+10	N	5	bc	57	88	8	5	4	-	1	2-3	2500	1	2	61	58	*	-	-	8.9
Guernsey	999.1	+8	N'W	2	z	57	97	6	5	-	-	10	10	800	1	3	60	55	54	1	-	0.2
Pembroke	1002.9	+2	NE	2	bc	55	85	8	-	7	1	0	2-3	-	0	1	62	55	*	Tr	-	8.9
Holyhead	1002.2	0	NW	2	b	55	75	8	8	4	1	Tr	Tr	1500	0	2	59	(49)	48	-	-	12.9
Chester (Sealand)	1002.4	-2	-	0	m/f	52	85	4	-	3	-	0	Tr	-	1	*	62	44	38	Tr	-	0.2
Manchester	1002.4	-4	-	0	m	53	85	4	-	-	1	0	Tr	-	1		62	40	35	-	-	0.2
Spurn Head	1001.4	0	-	0	c	59	85	8	2	3	-	4-6	7-8	800	0	1	56	52	*	3	-	0.0
Catterick	1001.7	-6	-	0	b	54	85	7	2	-	9	Tr	1	4000	0	*	61	43	37	-	-	5.4
Tynemouth	1001.8	-6	SW	2	bc	52	85	6	7	3	1	1	2-3	2500	0	1	56	47	46	Tr	-	*
St. Abbs Head	998.9	-12	SW	5	c	50	75	8	5	6	1	4-6	9	2500	0	3	54	47	*	Tr	-	*
Leuchars	998.1	-18	SW	4	c	58	85	7	5	7	-	9	10	2500	0	*	63	49	42	05	0.2	4.4
Renfrew (Abbots I.)	999.8	-16	SW	3	c	52	75	9	5	7	-	4-6	10	4000	0	*	66	46	41	Tr	-	4.6
Eskdalemuir	1000.0	-12	SSE	1	c	44	97	8	5	4	-	9	9+	4000	1			33	29		-	7.4
Point of Ayre	1001.8	-14	WNW	3	bc	55	85	8	1	4	-	Tr	2-3	4000	0	1	64	45	*	-	-	11.5
Tiree	999.3	-32	SSW	5	dr	52	92	6	-	2	-	10	10	800					*	-		
Stornoway	992.5	-40	SSW	7	c/pr	50	92	7	5	7	-	4-6	10	2500	1	4	54	48	*	Tr	0.2	2.0
Dalwhinnie	997.6	-40	S	5	c	47	75	7	6	7	-	4-6	10	2500	0	*	58	39	32	Tr	-	3.8
Aberdeen	996.9	-24	SSW	3	c	52	85	7	5	7	-	Tr	9+	1500	0	1	57	42	34	0.5	-	7.9
Wick	994.5	-28	SW	3	c	50	92	8	8	2	-	4-6	10	1500	1	2	53	42	*	3	1	*
Lerwick	994.4	-38	S'E	4	r?	50	85	7	6	2	-	7-8	9+	1500	1	*	54	46	*	0.2	Tr	1.1
Blacksod Point	1000.4	-28	SW	3	ld	54	97	7	6	-	-	10	10	450	1	3	59	46	*	-	0.4	*
Malin Head	998.3	-26	SSW	5	cu	51	75	7	6	-	-	9+	9+	4000	0	3	55	45	*	-	-	12.3
Aldergrove	1001.2	-18	SW'W	3	bc	49	85	8	5	7	1	4-6	4-6	4000	0	*	61	37	35	Tr	Tr	11.4
Birr Castle	1003.7	-6	NNE	1	b	52	75	8	-	-	-	0	0	-	0	*	65	38	36	0.4	-	7.9
Valentia Obsy.	1005.7	-10	W	4	o	55	75	8	5	-	-	10	10	2500	0	2	61	46	38	0.2	Tr	11.8
Roches Point	1004.6	-2	N	3	b	53	75	8	5	-	-	Tr	Tr	4000	0	2	65	50	*	-	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Afternoon	Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cir d irm	cid bcm	bcbm	62	56	53	0.1	-	2.3	*	*	6
Croydon	217	r r dfe	cm bcm	bz bm	66	57	48	1	-	3.9	*	*	6
Greenwich (Royal Observatory)	149	cir rcm	cbcm	bcm	70	57	50	0.3	-	4.1	72	82	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	66	55	53	0.2		3.5	78	87	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	66	54	53		-		85	82	*
Camden Square	110	bc	bc	*	66	54	52	0.5	-	*	*	81	*
Kensington	80	orbc	bc	*	65	57	53	0.3	Tr		78	86	*
Hampstead Observatory	450												

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.

Kew Observatory.

Max.	Time.	Min.	Time.
0.1	10-13h 23rd	<0.1	0-7h 24th

FOREIGN OBSERVATIONS.

18h. G.M.T. 23rd June — 7h. G.M.T. 24th June — Past 24 Hours

Stations	Barom. mb. (18h.)	Wind Direc.	Wind Force	Weather	Temp. °F.	Barom. mb. (7h.)	Wind Direc.	Wind Force	Weather	Temp. °F.	Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

EXPLANATION of FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 9 h. § Sea disturbance reported from Dungeness.

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Tuesday 25th June 1940.

No. 28705

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1000·4	-4	NNW	3	zo	68	65	6	7	-	-	7-8	7-8	1500
	Croydon ...	1000·4	-4	-	0	zo	69	65	6	5	-	-	7-8	7-8	2500
	S. Farnborough	1000·3	-6	NW'N	2	zo	67	75	6	5	-	-	9+	9+	1500
	Boscombe Down	1000·5	-6	NNW	3	zo	67	65	7	2	-	-	7-8	7-8	4000
	Calshot (Soton.)	1000·1	-2	NNW	3	zo	70	75	6	7	-	-	4-6	4-6	4000
	Lympne ...	1000·4	+2	NNE	4	zo	67	65	6	1	-	-	Tr	Tr	1500
	Manston ...	1000·4	+6	NE	3	zo	65	75	6	5	-	-	2-3	2-3	220
2	Shoeburyness ...	1000·8	-2	ESE	3	b	66	85	6	2	-	-	Tr	Tr	1500
	Felixstowe ...	1000·4	+4	ESE	3	cjf	62	85	6	5	-	-	7-8	7-8	450
	Gorleston ...	1001·0	0	ENE	3	bc	63	75	7	5	-	2	2-3	4-6	2500
	Mildenhall ...	1000·3	-4	NW'N	2	c	68	65	7	8	-	-	9+	9+	2500
	Cranwell ...	1000·3	-8	S'W	1	c	67	55	7	5	-	-	9	9	1500
3	Birmingham	1000·9	-4	WSW	2	bc	66	45	8	7	-	-	4-6	4-6	2500
	Upper Heyford	1000·6	-10	NW	2	bc	69	55	7	7	-	-	4-6	4-6	2500
4	Ross-on-Wye ...	1001·0	-8	NW'N	2	bc	68	85	8	1	-	-	2-3	2-3	4000
5	Hartland Point	1002·7	+4	N	2	b	59	75	8	1	-	1	1	1	4000
	Bristol ...	1001·5	-6	NW	1	bc	68	55	8	1	-	-	4-6	4-6	2500
	Portland Bill ...	1001·7	+10	NNW	2	c	65	92	7	5	4	-	4-6	9	4000
	Plymouth ...	1001·7	-2	N	3	bc	66	65	7	2	3	1	4-6	4-6	2500
	The Lizard ...	1003·1	+4	NW	4	bc	64	65	8	8	3	-	2-3	4-6	2500
	Scilly (St. Mary's)	1004·4	+4	NW	4	bc	65	65	8	2	4	3	2-3	4-6	2500
	Guernsey ...	1000·7	+4	N'W	3	zo	62	85	6	5	1	-	7-8	9+	1500
6	Pembroke ...	1003·3	+2	WNW	3	bc	57	85	8	1	-	-	2-3	2-3	4000
7	Holyhead ...	1000·8	-10	SSW	4	bc	55	65	9	7	4	1	2-3	2-3	2500
	Chester (Sealand)	1000·5	-8	NW	3	bc	62	65	8	1	-	1	2-3	2-3	2500
8	Manchester ...	1000·4	-6	N'W	3	bc	66	55	8	1	-	-	2-3	2-3	4000
10	Spurn Head ...	1000·2	-4	E	3	c	60	85	6	2	-	-	4-6	4-6	800
	Catterick ...	998·9	-10	WSW	4	bc	67	55	7	2	-	1	4-6	4-6	4000
	Tynemouth ...	998·8	-18	SSW	3	bc	67	45	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head	996·1	-12	SW	5	c	60	35	9	5	6	-	4-6	7-8	2500
	Leuchars ...	994·6	-14	SW	5	c	59	55	8	8	7	-	4-6	7-8	1500
12	Renfrew (Abbots I.)	996·6	-16	SW	4	id₀	55	75	6	5	2	-	9	9+	1500
	Eskdalemuir ...	997·3	-8	WSW	5	c	55	55	8	8	3	-	9	9+	2500
	Point of Ayre ...	999·5	-8	W'S	5	c	59	65	8	5	4	-	7-8	9	2500
13A	Tiree ...	993·8	+2	W	4	o	58	75	7	5	-	-	10	10	1500
13B	Stornoway ...	988·8	0	WSW	6	ir₀	54	85	7	8	-	-	10	10	1500
15	Dalwhinnie ...	993·8	-10	SW	5	c	50	85	6	6	1	-	7-8	10	1500
	Aberdeen ...	993·7	-14	WSW	5	c	60	55	9	7	4	-	2-3	7-8	4000
	Wick ...	989·5	-18	SW	4	c	58	75	8	8	6	-	4-6	9	1500
16	Lerwick...	990·0	-20	S'W	5	rr	50	92	6	6	2	-	4-6	10	800
17	Blacksod Point..	1000·4	0	W	5	c	60	75	7	5	-	-	10	10	800
18	Malin Head ...	996·4	+2	SW	5	c	59	75	8	2	-	-	7-8	7-8	4000
	Aldergrove ...	997·7	-14	SW	4	c	57	75	8	5	-	-	10	10	4000
19	Birr Castle ...	1000·9	-12	SW	3	c	62	75	8	5	1	-	7-8	9+	2500
20	Valentia Obsy. †	1003·6	-6	NW'W	4	cjp	59	85	7	5	-	-	9+	9+	1500
	Roches Point ...	1002·5	-14	SSW	3	c	61	75	8	5	-	-	9	9	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	998·8	-10	WNW	2	bc	73	55	7	8	-	-	4-6	4-6	2500	1	*
Croydon	999·3	-6	WNW	2	bc	71	55	6	2	-	-	2-3	2-3	4000	0	*
S. Farnborough	999·0	-8	WNW	2	bc	71	55	7	1	-	-	2-3	2-3	4000	1	*
Boscombe Down	999·5	-4	W'N	3	zo	70	55	7	1	-	-	1	2-3	4000	0	*
Calshot (Soton.)	999·3	-6	NW'N	2	zo	72	65	6	7	-	-	4-6	4-6	4000	0	1
Lympne	999·0	0	NE	2	bc	68	65	7	-	3	-	0	2-3	-	0	§
Manston	999·3	+6	NE'E	3	zo	64	75	6	-	8	-	0	2-3	-	0	*
Shoeburyness	1000·0	-2	E'S	2	b	63	75	7	-	5	-	0	1	-	0	*
Felixstowe	999·6	-2	E	3	bc	62	85	7	-	-	6	0	2-3	-	0	1
Gorleston	1000·5	-4	ESE	1	b	60	75	7	-	4	-	0	1	-	0	1
Mildenhall	998·5	-10	W	2	c	72	55	7	8	6	-	4-6	7-8	5700	0	*
Cranwell	998·0	-16	SSW	2	bc	70	45	7	1	-	-	4-6	4-6	2500	0	*
Birmingham	999·4	-10	WNW	3	bc	68	45	8	7	-	-	4-6	4-6	4000	1	*
Upper Heyford	999·5	-4	NW	2	bc	71	55	7	8	-	1	2-3	4-6	4000	0	*
Ross-on-Wye	999·5	-8	W'N	3	b	69	55	8	7	-	-	1	1	4000	0	*
Hartland Point	1002·2	-4	NW	3	bc	58	75	9	7	-	-	4-6	4-6	4000	0	2
Bristol	1000·5	-8	W	3	bc	65	55	8	-	-	4	0	2-3	-	0	*
Portland Bill	1000·2	-12	W	1	bc	61	92	7	1	4	-	4-6	4-6	4000	1	3
Plymouth	1002·3	+6	NW'N	3	b	63	55	8	1	-	5	Tr	1	4000	0	2
The Lizard	1003·4	0	W'N	4	bcjp	59	75	8	8	4	-	2-3	4-6	2500	1	3
Scilly (St. Mary's)	1004·1	-4	WNW	4	c	61	75	8	5	4	-	4-6	9	2500	1	2
Guernsey	1000·9	+2	NW	2	b	63	75	7	-	-	-	0	0	-	1	3
Pembroke	1001·3	-2	W'N	3	c	57	85	8	8	7	-	7-8	7-8	1500	0	2
Holyhead	999·1	-10	SSW	4	ir₀	56	85	9	5	2	-	9+	10	2500	0	2
Chester (Sealand)	999·3	-10	WSW	3	c	64	35	8	7	4	-	7-8	9	5700	1	*
Manchester	999·8	-2	W	3	bc	61	55	8	5	-	-	4-6	4-6	7200	0	*
Spurn Head	997·3	-10	SE'E	4	bc	60	85	6	1	9	-	1	4-6	800	0	3
Catterick	998·0	-4	W	2	c	61	55	9	4	6	-	7-8	9	4000	0	*
Tynemouth	997·9	-4	NW	3	c	62	45	8	2	4	-	4-6	7-8	2500	0	1
St. Abbs Head	994·0	-8	SW	5	c	57	65	8	8	6	-	7-8	9	2500	0	3
Leuchars	993·8	-8	SW	5	c/pr	55	92	7	7	1	1	4-6	7-8	1500	1	*
Renfrew (Abbots I.)	995·5	-2	WSW	4	c	60	65	8	8	3	1	4-6	7-8	1500	0	*
Eskdalemuir	996·3	-10	SSW	3	r₀r₀	51	92	8	6	-	-	10	10	800	1	*
Point of Ayre	997·4	-12	W'S	5	c	60	75	8	8	4	-	7-8	9	2500	0	3
Tiree	993·5	0	W	4	c/d	55	85	7	5	-	-	9	9	1500	0	2
Stornoway	988·2	-12	WSW	6	PR	50	85	7	8	7	-	7-8	10	1500	1	3
Dalwhinnie	992·7	-2	SW	5	c	54	65	8	4	2	-	4-6	9	4000	0	*
Aberdeen	992·0	-8	SW'W	5	bc	58	65	7	5	4	9	1	2-3	4000	0	2
Wick	988·7	0	WSW	4	c	59	65	8	8	7	1	7-8	9	1500	1	2
Lerwick	986·9	-12	S'W	5	c	51	97	7	8	7	-	7-8	9	800	1	*
Blacksod Point	1000·5	+2	W	4	c	58	65	7	5	-	-	9	9	800	0	3
Malin Head	996·0	0	SW	3	c/pr	56	75	7	6	-	-	9	9	4000	0	3
Aldergrove	997·0	-2	WSW	4	bc	62	65	8	8	-	-	4-6	4-6	2500	0	*
Birr Castle	1000·9	+2	W'N	3	c	62	65	8	4	-	-	7-8	7-8	1500	0	*
Valentia Obsy. †	1004·4	+2	NW	4	c	58	75	7	5	-	-	9+	9+	2500	0	4
Roches Point	1001·8	0	NW	5	bc	63	75	8	8	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 24th (37)	13h.—18h. 24th (38)	18h. 24th to 1h. 25th (39)	1h.—7h. 25th (40)
London (Kew)	cmozo	cybcy	bcybm₂	bcc
Croydon	cmozo	czobczo	bzy,bcm	cz bc
S. Farnborough	cmo	czobcy	bcb	bc
Boscombe Down	cmo	mo	bz	cm
Calshot (Soton.)	cmobcmo	bcmo	bcmb	bmbcc
Lympne	cbc bzo	bczobyb	bbcm	bccbm
Manston	bcfmobc	bzobcz	bcmw	bcmw
Shoeburyness	cbcmo	cmobmob	bcm	cbcm
Felixstowe	cmo,jf	cmojfbmo	bbcmw	cm b
Gorleston	cbc	bc	bc	bcbc
Mildenhall	cmowcmoc	cbcy	bcybcm	bcm cz
Cranwell	bccy	bcy	bc	cmcbcm
Birmingham	bc	bc	bcb	bbc
Upper Heyford	docbcmobc	cmobcy	bcb	c
Ross-on-Wye	ccbc	bcy	bybv	bwcbc
Hartland Point	bcb	bbc	bccpr	c
Bristol	cmocbc	bbcy	bc	bcmc
Portland Bill	c	cbc	bcc	bc
Plymouth	czobc	bcby	bcid₀	bccid₀bc
The Lizard	bc	bc	cpr₀c	cpr₀
Scilly (St. Mary's)	bc	bcc	cp₀c	cbc
Guernsey	ozo	czbcb	bbcc	c
Pembroke	bc	bccv	c	cq
Holyhead	bvb	bicr₀c	dr₀c	cbc
Chester (Sealand)	zobc	bcby	cm	czc
Manchester	zoybcy	bcy	bcycpr₀	cmc
Spurn Head	c	c	bcc	c
Catterick	bcy	bcycy	cbc	bcc bc
Tynemouth	bc	bcc		bcc
St. Abbs Head	bccy	c		bc
Leuchars	cir₀cy	cycpr₀c	cbcr₀bcxr	bcbbc
Renfrew (Abbots I.)	ir₀cid₀	cmoid₀c	bccpr₀	bccpr
Eskdalemuir	cwc	id₀cr₀	cigbcfgw	bcfgcw
Point of Ayre	bcc	c	bcc	cpr₀c
Tiree	c	cid	bc	bcpr
Stornoway	crrpr	cPRq	PRbc	bccPR
Dalwhinnie	cir₀	cir	•	cir
Aberdeen	robcy	bcy	bbc	bcb
Wick	cpr₀c	cprc	prrrc	pr₀bc
Lerwick	crr₀prr	crr₀ir	cir	c
Blacksod Point	cq	c	c	cbcq
Malin Head	cpr₀c	c	cpr₀c	cprprc
Aldergrove	bcc	cid₀cbc	bccprc	cbc
Birr Castle	c	c		bcpr₀
Valentia Obsy. †	obcid₀c	cid₀c	cpr₀c	cbcbbc
Roches Point	c	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/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
< less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

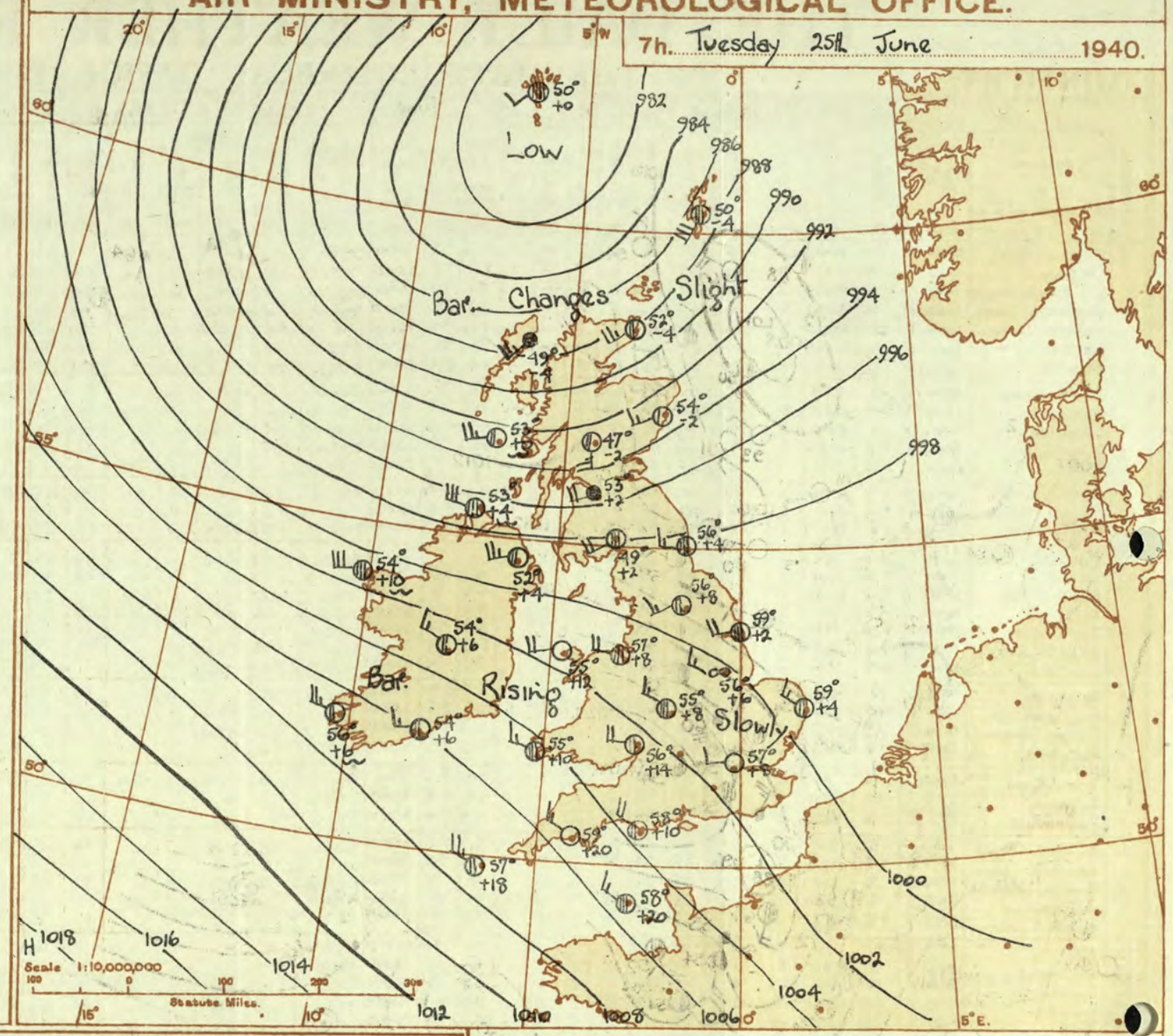
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Tuesday 25th June 1940.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 25th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind west to northwest, moderate; bright periods and showers; local thunderstorms afternoon and evening; rather cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind west to northwest, fresh, perhaps strong locally on coast at first; bright periods and showers; heavy showers locally; cool.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind southwest to west, fresh at times; bright periods and showers; probably local thunder later today; cool.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Wind southwest, strong, approaching gale at times at first on the northwest coast; cloudy; brighter intervals: showers or occasional rain; cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 4 - 8.

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

General Inference.

A very deep depression centred over the Faeroes will drift slowly southeast and begin to fill up. Cool rather showery weather will prevail generally, the showers being heavy locally. Local thunderstorms will occur chiefly in the Midlands and eastern counties.

Further Outlook.

Cool and showery; local thunderstorms in the east.

Time of issue of Gale Warning.

Gale warning issued at 0815 on 24/6/40 in districts 13A, 13B, 15, 16, and part of 17 and 18.

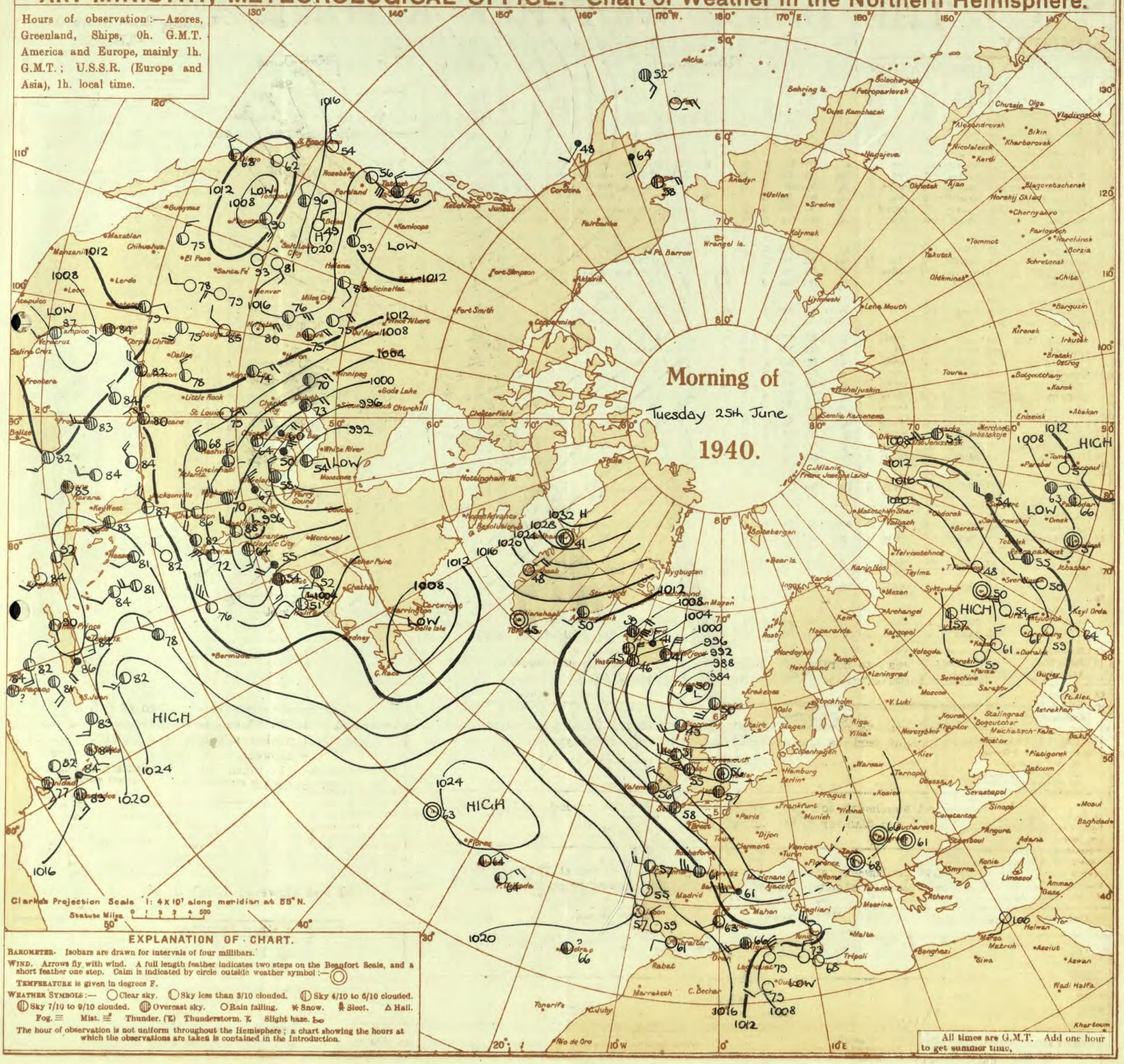
Forecasts issued at 1030.

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

Tuesday 25th June 1940.

No 28,705

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

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	1000.6	+6	W	2	c	57	85	7	5	3	8	4-6	7-8	4000
	S. Farnborough	226	1001.0	+6	W	3	bc	53	75	7	5	-	-	2-3	2-3	5700
	Boscombe Down	417	1001.3	-2	W'N	2	z	59	92	7	5	-	-	1	1	4000
	Calshot (Sthmtn.)	8	1001.5	+6	W	2	z	61	85	6	-	-	8	0	Tr	-
	Lympne	346	1001.8	-2	WNW	1	z	*	92	6	5	-		4-6	4-6	4000
	Manston	154	999.6	-6	W	1	z	54	92	5		3	-	0	2-3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	999.5	-2	-	0	z	60	92	6	5	7	-	2-3	7-8	4000
	Gorleston	5	999.9	-2	W	2	bc	56	92	6	5	-	-	4-6	4-6	2500
	Mildenhall	19	999.4	+2	WSW	2	z	55	92	6	5	3	-	2-3	2-3	4000
	Cranwell	240	999.7	+6	-	0	z	52	85	6	-	5	-	0	7-8	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1001.0	+6	-	0	b	50	83	7	-	4	-	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1001.7	-2	NW	3	c	57	97	8	5	4	-	4-6	7-8	2500
	Bristol	209	1001.5	-2	W	1	z	52	92	6	5	3	-	4-6	4-6	4000
	Portland Bill	32	1003.0	0	ENE	3	c	55	85	8	5	-	-	7-8	7-8	4000
	Plymouth	82	1003.3	-2	W	1	c	57	92	7	7	-	-	7-8	7-8	2500
	The Lizard	240	1003.8	+2	W'N	3	c	57	97	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1004.5	+2	NW'W	4	c	58	85	8	8	7	-	4-6	7-8	1500
	Guernsey	175	1003.2	+6	WNW	1	c	55	92	8	8	1	-	7-8	10	2500
6	Pembroke	142	1002.3	+6	NW'W	3	dd	55	85	8	5	-	-	7-8	7-8	1500
7	Holyhead	26	999.9	+10	W'N	4	c	55	85	8	5	-	-	9+	9+	2500
	Chester (Sealand)	16	999.5	0	WSW	1	c	57	75	6	5	-	-	9+	9+	4000
8	Manchester	70	999.3	0	SSW	3	c	55	75	7	5	-	-	9+	9+	4000
10	Spurn Head	29	999.9	+4	-	0	c	56	85	5	5	-		9+	9+	800
	Catterick	175	997.8	-2	SW'S	2	bc	54	92	7	5	3	-	4-6	4-6	4000
	Tynemouth	108														
11	St. Abbs Head	280														
	Leuchars	36	998.7	+4	SW	3	bc/p	51	75	7	5	-	-	4-6	4-6	1500
12	Renfrew (Abbots I.)	19	995.4	+2	WSW	4	pr	52	75	7	8			9+	9+	1500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	998.1	+4	WNW	4	c	54	85	8	5	3	-	4-6	7-8	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	987.6	-8	WSW	5	bc	49	85	7	8	-	-	2-3	2-3	1500
15	Dalwhirnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	988.7	0	SW	3	c	49	85	8	8	7	-	4-6	7-8	1500
16	Lerwick	156	986.7	0	SSW	5	c	50	92	7	8	7		4-6	7-8	1500
17	Blacksod Point	18	1001.4	-2	W'N	5	c	53	75	7		7	-	0	7-8	-
18	Malin Head	84	996.4	-2	W'S	5	c/pr	51	85	7	9	-	-	7-8	7-8	4000
	Aldergrove	268	998.1	+2	W'S	3	c	53	65	7	5	-	-	9	9	4000
19	Birr Castle	173														
20	Valentia Obsy.	30	1006.2	+4	NW'W	4	c	56	75	7	5	-		9+	9+	2500
	Roches Point	22	1004.4	+8	NW	3	bc	55	85	8	5	-	-	4-6	4-6	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1001.5	+4	SW	2	c	58	75	7	5	-	1	7-8	7-8	2500	0	*
Croydon	1001.8	+8	W	2	bc	57	75	8	2	4	4	1	2-3	4000	0	*
S. Farnborough	1001.9	+10	W'S	3	c	56	85	8	5	3	-	7-8	9+	5700	1	*
Boscombe Down	1002.2	+10	W	3	z	58	85	7	2	3	2	2-3	4-6	2500	0	*
Calshot (Sthmtn.)	1002.4	+8	NW	4	c	58	85	7	5	5	-	4-6	7-8	7200	0	1
Lympne	1001.3	+2	NW	3	b	58	75	7	-	-	1	0	Tr	-	0	§ 1
Manston	1000.1	+8	WNW	3	z	61	75	6	-	3	-	0	2-3	-	0	*
Shoeburyness	1001.3	+10	WNW	3	bc	61	65	6	-	3	1	0	2-3	-	0	*
Felixstowe	999.9	+8	WNW	3	b	57	75	7	5	-	3	1	1	4000	0	1
Gorleston	999.6	+4	NW	3	bc	59	75	6	5	-	-	4-6	4-6	2500	0	1
Mildenhall	1000.2	+10	NW'W	3	z	58	75	6	5	3	-	2-3	7-8	4000	0	*
Cranwell	1000.1	+6	W'N	3	z	56	85	6	5	-	-	4-6	4-6	5700	0	*
Birmingham	1002.0	+8	NW	3	c	55	75	8	5	-	-	9	9	1500	1	*
Upper Heyford	1001.5	+6	W	2	c	58	85	8	2	3	-	2-3	7-8	2500	1	*
Ross-on-Wye	1002.8	+14	W'N	4	bc	56	65	8	8	-		2-3	2-3	4000	0	*
Hartland Point	1004.8	+18	NNE	4	c	56	65	8	8	7	-	4-6	7-8	2500	0	3
Bristol	1003.2	+18	W	3	c	58	75	8	5	-	-	9	9	5700	0	*
Portland Bill	1003.5	+10	NW	4	bc	58	85	8	5	-	-	4-6	4-6	4000	1	3
Plymouth	1005.5	+20	NW	3	bc	59	65	7	8	5	-	2-3	4-6	4000	0	1
The Lizard	1007.2	+20	WNW	3	c	57	75	8	8	2	-	7-8	9	1500	1	2
Scilly (St. Mary's)	1007.2	+18	NW'W	5	bc	57	65	7	5	4	4	4-6	4-6	2500	1	2
Guernsey	1004.9	+20	NW	3	c	58	85	7	8	3	8	2-3	7-8	2500	1	3
Pembroke	1004.8	+10	WNW	3	eq	55	75	8	8	-	-	9+	9+	2500	0	2
Holyhead	1001.4	+12	W'S	4	bc	55	75	7	5	-	5	2-3	4-6	5700	0	2
Chester (Sealand)	1001.2	+8	W'N	4	c	57	65	8	7	4	-	4-6	7-8	2500	0	*
Manchester	1000.5	+10	W'S	4	c	56	65	8	8	-		9+	9+	4000	0	*
Spurn Head	999.0	+2	W	4	c	59	75	5		3	-	0	7-8	-	0	3
Catterick	998.8	+8	SW'W	3	c	56	65	8	8	3	-	4-6	7-8	4000	0	*
Tynemouth	998.1	+4	W	3	c	56	65	7	8	-	-	7-8	7-8	2500	0	1
St. Abbs Head	994.5	-10	SW	5	bc	52	65	8	2	4	5	2-3	4-6	1500	0	2
Leuchars	993.6		WSW	4	bc	54	75	8	7	7	-	2-3	2-3	2500		*
Renfrew (Abbots I.)	995.4	+2	WSW	4	pr	53	65	8	8	-	-	9+	9+	1500	0	*
Eskdalemuir	996.9	+2	SW	4	c	49	85	8	5	-	-	10	10	1500	1	
Point of Ayre	999.3	+6	W'N	5	c	55	75	8	7	4	5	4-6	7-8	2500	0	3
Tiree	992.4	0	W'S	5	bc	53	75	8	8	6	-	2-3	4-6	1500	0	4
Stornoway	986.8	-4	SW	5	pr	49	92	7	8	-	3	7-8	9	1500	1	3
Dalwhirnie	992.3	-2	S	5	bc	47	75	8	4	4	-	2-3	2-3	4000	1	*
Aberdeen	991.9	-2	SW'W	3	b	54	65	8	1	4	2	Tr	Tr	2500	0	1
Wick	987.8	-4	SW	5	bc	52	85	8	7	4	-	2-3	2-3	1500	1	2
Lerwick	985.9	-4	SSW	6	c	50	85	8	5	7	-	4-6	7-8	1500	1	*
Blacksod Point	1001.8	+10	W	6	eq	54	65	8	3	6	-	4-6	7-8	1500	0	4
Malin Head	995.9	+4	WNW	6	c/pr	53	65	8	3	-	2	4-6	7-8	4000	0	4
Aldergrove	998.5	+4	WSW	5	bc	52	75	8	5	-	-	4-6	4-6	1500	0	*
Birr Castle	1003.7	+6	NW	3	bc/pr	54	75	8	5	-	-	2-3	2-3	2500	0	*
Valentia Obsy.	1007.2	+6	WNW	5	bc	56	75	8	8	-	-	4-6	4-6	2500	0	4
Roches Point	1005.9	+6	W	3	bc	54	75	8	5	-	-	4-6	4-6	2500	0	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 24th Hrs. (36)
London (Kew)	73	53	44	-	-	5.6
Croydon	73	50	41	-	-	5.4
S. Farnborough	73	47	38	-	-	4.9
Boscombe Down	73	48	45	-	-	7.8
Calshot (Sthmtn.)	72	48	44	-	-	10.0
Lympne	71	55	50	-	-	12.7
Manston	67	54	50	-	-	8.8
Shoeburyness	69	55	48	-	-	7.7
Felixstowe	65	55	52	-	-	9.9
Gorleston	63	54	53	-	-	8.3
Mildenhall	73	50	42	Tr	-	6.3
Cranwell	71	52	48	-	-	9.8
Birmingham	70	51	45	Tr	-	9.0
Upper Heyford	72	47	40	Tr	-	*
Ross-on-Wye	72	51	43	-	-	11.1
Hartland Point	61	55	55	-	Tr	12.3
Bristol	71	51	41	-	-	10.7
Portland Bill	65	54	*	-	-	*
Plymouth	(66) 68	55	52	-	-	10.0
The Lizard	65	54	*	-	0.1	12.3
Scilly (St. Mary's)	66	55	*	-	0.2	12.8
Guernsey	65	54	50	-	-	6.1
Pembroke	60	53	*	-	-	11.9
Holyhead	60	53	50	Tr	Tr	9.1
Chester (Sealand)	67	54	51	-	-	10.6
Manchester	68	53	49	-	0.5	12.1
Spurn Head	63	55	*	-	-	9.8
Catterick	68	53	49	-	-	12.4
Tynemouth	69	53	49	-	-	*
St. Abbs Head	63	49	*	-	-	*
Leuchars	63			0.1		
Renfrew (Abbots I.)	61	49	45	Tr	Tr	3.0
Eskdalemuir	59	45	42	0.1	0.1	1.5
Point of Ayre	64	51	*	-	Tr	8.9
Tiree	60	47	*	-	1	2.0
Stornoway	57	47	*	2	4	2.2
Dalwhirnie	65	43	39	0.2	4	2.2
Aberdeen	62	48	43	Tr	-	7.7
Wick	62	47	*	0.4	1	*
Lerwick	54	38	*	3	0.1	0.4
Blacksod Point	61	47	*	0.5	2	*
Malin Head	60	46	*	0.2	2	1.7
Aldergrove	64	49	45	Tr	Tr	8.6
Birr Castle	65	50	47	-	Tr	5.3
Valentia Obsy.	60	55	49	Tr	Tr	1.4
Roches Point	65	52	*	1	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 hrs. ended 9h.											
Kew	18	cmz	cybcy	bcybm	73	53	44	-	-	5.6	*	*	8
Croydon	217	cmz	czbcz	bzybm	73	50	41	-	-	5.4	*	*	8
Greenwich (Royal Observatory)	149	c	cbc	bccb	72	51	43		-	4.5	61	64	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park)	27	*	*	*	73	52	47		-	4.6	67	75	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	73	52	48	-	-		57	68	*
Camden Square	110	c	bc	*	74	52	48	-	-	*	*	67	*
Kensington	80	cbc	bc	*	73	52	46	-	-		59	71	*
Hampstead Observatory	450	bc	bc	bc	72	49	45	-	-		*	80	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington.				
Kew Observatory.	0.1	8-11h. 24th.	<0.1	11-24h 24th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 24th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 25th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											*	*		

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

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

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT.

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Wednesday 26th June, 1940.

No. 28,706.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1004·1	+14	W	4	c	66	45	8	1	3	-	7·8	7·8	4000
	Croydon ...	1003·6	+12	WNW	3	c	68	45	8	2	6	-	4-6	7·8	4000
	S. Farnborough	1004·5	+18	W'N	4	bc	66	45	8	2	3	-	4-6	4-6	4000
	Boscombe Down	1005·1	+14	W	4	bc	65	45	8	2	-	-	4-6	4-6	4000
	Calshot (Soton.)	1005·3	+18	N'W	4	c	65	45	7	7	-	-	7·8	7·8	4000
	Lympne ...	1004·1	+14	W	3	c	69	45	8	7	-	-	7·8	7·8	4000
	Manston ...	1002·9	+6	NW	4	c	68	55	7	3	3	-	2·3	7·8	1500
2	Shoeburyness ...	1003·5	+14	NW	3	c	70	45	8	8	-	-	7·8	7·8	4000
	Felixstowe ...	1001·9	+10	NW	4	c	71	45	8	4	-	-	7·8	7·8	5700
	Gorleston ...	1001·6	+12	NW'W	4	c	65	55	7	8	3	-	4-6	7·8	2500
	Mildenhall ...	1002·3	+10	WNW	4	c	67	45	7	8	-	-	7·8	7·8	4000
	Cranwell ...	1002·5	+10	W	4	bc	62	45	7	7	-	-	4-6	4-6	2500
3	Birmingham	1003·7	+8	WNW	4	c	61	45	8	8	-	-	7·8	7·8	2500
	Upper Heyford	1004·1	+18	WNW	3	c	63	45	8	7	-	-	7·8	7·8	2500
4	Ross-on-Wye ...	1005·0	+10	W	4	c	63	45	8	7	-	-	7·8	7·8	4000
5	Hartland Point	1007·7	+10	NW	4	bc	60	65	8	7	-	-	4-6	4-6	2500
	Bristol ...	1006·3	+16	W	4	c	64	55	9	8	-	-	7·8	7·8	4000
	Portland Bill ...	1007·5	+12	W	4	c	62	75	8	2	-	-	7·8	7·8	4000
	Plymouth ...	1008·5	+14	NW'N	4	c (63)	68	35	8	2	-	-	7·8	7·8	4000
	The Lizard ...	1009·8	+12	W	5	bc	61	75	8	8	-	-	2·3	2·3	2500
	Scilly (St. Mary's)	1010·2	+14	WNW	5	bc	65	65	8	8	6	-	4-6	4-6	2500
	Guernsey ...	1008·9	+18	WNW	6	bc	64	65	8	7	4	-	2·3	4-6	2500
6	Pembroke ...	1006·4	+8	W'N	4	c	59	75	8	8	4	-	4-6	7·8	2500
7	Holyhead ...	1003·5	+14	SW'W	4	c	60	65	8	8	4	-	7·8	7·8	2500
	Chester (Sealand)	1003·1	+10	W	4	bc	62	55	8	3	4	3	4-6	4-6	2500
8	Manchester ...	1002·5	+8	W	6	c	62	45	8	2	-	-	9	9	2500
10	Spurn Head ...	1000·9	+4	W'S	3	c	64	65	5	8	-	-	9	9	800
	Catterick ...	999·9	+6	W'S	3	bcjp	60	55	8	8	-	3	4-6	4-6	2500
	Tynemouth ...	998·3	+4	W	5	c	64	35	8	2	-	-	7·8	7·8	2500
11	St. Abbs Head	995·0	+8	W	5	bcq	58	45	8	2	6	-	2·3	4-6	2500
	Leuchars ...	994·2	+2	SW	5	c	61	55	8	2	-	-	7·8	7·8	2500
12	Renfrew (Abbots I.)	997·1	+10	W'S	5	c/pr	50	85	7	8	-	3	9+	9+	1500
	Eskdalemuir ...	997·0	+4	WSW	4	bc/pr	55	55	8	8	-	-	4-6	4-6	1500
	Point of Ayre ...	1000·7	+6	W'N	4	pr	65	45	8	9	4	-	7·8	7·8	1500
13A	Tiree ...	993·1	+4	W	6	bc/pr	56	75	8	8	-	-	4-6	4-6	1500
13B	Stornoway ...	986·5	-6	SW	5	c/pr	53	85	7	8	6	3	4-6	7·8	1500
15	Dalwhinnie ...	993·2	+6	SW	6	ir	50	75	8	8	4	3	2·3	4-6	4000
	Aberdeen ...	991·8	+2	W	4	bc	63	35	8	2	4	-	4-6	4-6	4000
	Wick ...	988·5	+10	SW	4	c/pr	57	75	8	8	7	-	7·8	9	1500
16	Lerwick...	988·5	+16	SSW	7	c	53	85	8	5	7	-	4-6	7·8	1500
17	Blacksod Point..	1003·4	+8	W	4	cq	56	65	7	3	5	-	4-6	9	800
18	Malin Head ...	998·4	+16	WNW	5	c/pr	53	75	7	9	-	-	7·8	7·8	4000
	Aldergrove ...	1000·0	+10	W'S	5	c/pr	58	65	9	3	-	-	7·8	7·8	2500
19	Birr Castle ...	1004·7	+6	WNW	4	bc	62	45	8	2	8	-	4-6	4-6	1500
20	Valentia Obsy. †	1008·9	+8	W'N	3	bc	59	65	8	8	-	-	4-6	4-6	4000
	Roches Point ...	1007·1	+2	W'N	5	c	62	65	8	3	-	3	4-6	7·8	1500

OBSERVATIONS at 18h. G.M.T. 25th June — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.—18h. 25th (37)	Weather 13h.—18h. 25th (38)	Weather 18h. 25th to 1h. 26th (39)	Weather 1h.—7h. 26th (40)
London (Kew)	1005·9	+10	W'S	3	c	64	45	8	8	-	-	7·8	7·8	2500	0	*	cy	cy	bccpr$_o$bc	bcb
Croydon	1005·7	+10	W'S	4	bc	65	45	8	4	-	-	4-6	4-6	4000	0	*	cbcy	bcy	bcyq.pr$_o$	b cb
S. Farnborough	1006·2	+12	WSW	5	bc	65	45	8	8	-	-	2·3	2·3	4000	0	*	bcy	bccbcy	crpr	c,bv
Boscombe Down	1007·1	+14	W'S	5	bc	62	45	8	1	-	-	2·3	2·3	4000	0	*	bc		bprbcm	bcm bc
Calshot (Soton.)	1007·0	+10	WNW	4	bc	64	45	8	1	-	-	4-6	4-6	4000	0	1	bcycy	cbcy	bccbc	bcb
Lympne	1006·4	+20	W'N	3	bc	65	35	9	4	-	-	4-6	4-6	5700	0	§3	bbcy		bcbyb	bbc
Manston	1005·0	+14	WNW	4	bc	66	45	7	8	3	-	2·3	4-6	2500	0	*	bccqzy	cbcy	bcycybc	bc
Shoeburyness	1005·4	+18	WNW	3	c	65	45	8	8	6	-	7·8	7·8	4000		*	m$_o$bccy	cybcy	bcc	cbcb
Felixstowe	1004·2	+20	WNW	4	bc	68	35	8	7	-	-	4-6	4-6	4000	0	3	bycy	cybcy	bcyc	cb
Gorleston	1003·7	+10	WNW	3	c	66	35	7	1	-	-	7·8	7·8	4000	0	1	bccy	cy	cbcy	bc
Mildenhall	1003·8	+6	W'N	4	bc	63	55	8	2	-	-	4-6	4-6	4000	0	*	cz$_o$cyz$_o$cy	bcy	bcybc	bcbwb
Cranwell	1003·6	+16	W	5	bc	64	35	7	8	6	-	4-6	4-6	2500	0	*	m$_o$cbcy	bccy	bcyprqb	b
Birmingham	1004·6	+4	W	4	b	62	35	8	1	-	-	1	1	4000	1	*	pr$_o$cbc	bcb	b	b
Upper Heyford	1005·2	+6	W	3	c	62	45	8	7	-	-	7·8	7·8	2500	0	*	bccbc	cy	cybcc	bcb
Ross-on-Wye	1006·3	+8	W'S	4	cq	57	65	8	8	3	-	7·8	9+	4000	0	*	bccbcy		cbccb	bbcb
Hartland Point	1008·1	0	NW	4	c/pr	59	85	8	3	4	-	4-6	7·8	2500	1	3	bccbc	bccp	cg	bc
Bristol	1007·4	-10	W	4	bc	61	65	8	9	6	-	2·3	4-6	1500	0	*	cbccy	bcby	bccPRbc	bwb
Portland Bill	1008·8	+8	W	4	c	60	85	8	2	-	-	7·8	7·8	4000	1	3	c	bcc	c	cbc
Plymouth	1009·6	+6	W'S	4	c	62	55	7	8	3	-	7·8	7·8	4000	0	2	bccy	cybcycyt	cypr$_o$bc	BCPRBC (insert)
The Lizard	1011·0	0	W'S	4	c	59	85	8	8	2	-	7·8	9	2500	1	2	cbc	bcc	cpr$_o$c	cbc
Scilly (St. Mary's)	1016·7	+2	WSW	5	c	69	75	8	8	7	-	7·8	9+	1500	0	3	bccbc	bccpo	cbcpq	bcpq
Guernsey	1010·6	+6	WNW	5	bc	61	85	7	-	3	1	0	2·3	-	1	3	cbc	bcb	bccir$_o$	cir$_o$
Pembroke	1007·2	+4	W	4	c	55	85	8	8	7	-	7·8	9	800	1	2	cq	Rpr$_o$c	bcbq	bcq
Holyhead	1003·9	+2	WNW	3	cjp	57	65	9	8	-	-	9+	9+	2500	1	3	bcpr$_o$c	pr$_o$qc	cjpqb	bc
Chester (Sealand)	1003·8	+6	WNW	4	bc	60	45	8	8	6	-	tr	4-6	2500	0	*	cbcy pr$_o$	bccpr$_o$PRb	yewbcyb	bbccm$_o$PR
Manchester	1003·3	+4	W	5	bc	61	45	8	8	5	-	2·3	4-6	4000	0	*	ccy	cy	bcc	pr$_o$bcpr
Spurn Head	1002·0	0	W	5	bc	63	55	6	2	-	-	4-6	4-6	1500	0	4	c	c	cb	c
Catterick	1001·4	+14	W'S	4	bc	60	45	8	2	6	-	4-6	4-6	4000	0	*	bcpr$_o$y	cjpybcy	cyb	cv
Tynemouth	999·2	+6	W	6	bc	61	55	8	2	3	-	4-6	4-6	2500	0	1	c	bbc	bc	bccbc
St. Abbs Head	995·7	-4	W	6	bcq	59	45	9	2	6	-	2·3	4-6	2500	0	4	prbcq	bcqy	bcq	cbcq
Leuchars	994·9	+2	WSW	5	bc/pr	58	55	8	2	7	-	2·3	4-6	2500	0	*	bcpr$_o$bcy	bcypr$_o$bcy	bc	bccbc
Renfrew (Abbots I.)	997·5	+2	WSW	5	pr	55	65	8	8	6	1	9+	9+	1500	1	*	bccpr	cpr$_o$PR	cPRpr$_o$bc	bcpr$_o$bc
Eskdalemuir	998·9	+10	W'S	5	bc/pr	53	65	9	8	-	-	4-6	4-6	1500	1	*	prbccpr	bccpr$_o$v	bcpr$_o$bc	bcwbc
Point of Ayre	1001·5	+2	WNW	4	pr	56	75	8	9	4	-	7·8	7·8	2500	0	2	bcc	bcc	bcbc	cbc
Tiree	995·0	+10	W'N	6	pr	53	85	7	8	-	-	9	9	1500	1	5	bcpR	cpr	cpr	bc
Stornoway	989·8	+40	NW	6	pr	54	75	8	8	-	1	4-6	9+	1500	1	3	cpr	cpr	cpr	cPR
Dalwhinnie	993·8	+6	SW	6	c	48	85	7	6	-	1	9	10	2500	1	*	cir	cir	*	cir
Aberdeen	992·6	+2	WSW	4	bc	59	45	8	3	9	-	2·3	4-6	4000	0	2	bbcy	bcy	bcyc	cbcy
Wick	988·6	-2	SSW	4	c	55	85	8	8	7	1	4-6	7·8	1500	1	2	bcprc	cpr$_o$c	cprc	cpr$_o$c
Lerwick	989·7	0	SSW	5	c	53	85	8	5	7	-	4-6	7·8	1500	0	*	c	cpr$_o$	pr$_o$bcc	cid$_o$pr
Blacksod Point	1005·7	+12	W	5	PR	54	75	7	6	-	-	10	10	800	1	4	cq	PR	bc	bc
Malin Head	999·3	+8	W	4	c/pr	52	85	7	6	-	-	9	9	4000	0	4	c	cPRc	cpr$_o$pr$_o$c	cprjpprbc
Aldergrove	1001·2	+6	WSW	5	cjp	56	65	9	3	6	-	4-6	7·8	2500	0	*	pr$_o$prbc	prajpy	cprbcpr$_o$	pr$_o$bc
Birr Castle	1006·2	+8	WNW	3	c	58	55	8	8	8	-	7·8	7·8	1500	0	*	bcy	cpr$_o$cy	bc	bbcc
Valentia Obsy. †	1010·7	+10	NW'W	5	c/pr	55	65	8	8	-	-	7·8	7·8	4000	0	3	prqcbc	prpr$_o$qc	cpcprqbc	prqpr$_o$bc
Roches Point	1008·1	+2	WNW	6	bcq	60	65	8	3	-	3	4-6	4-6	1500	0	3	bcyc	bcq	prbc	prbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

† Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

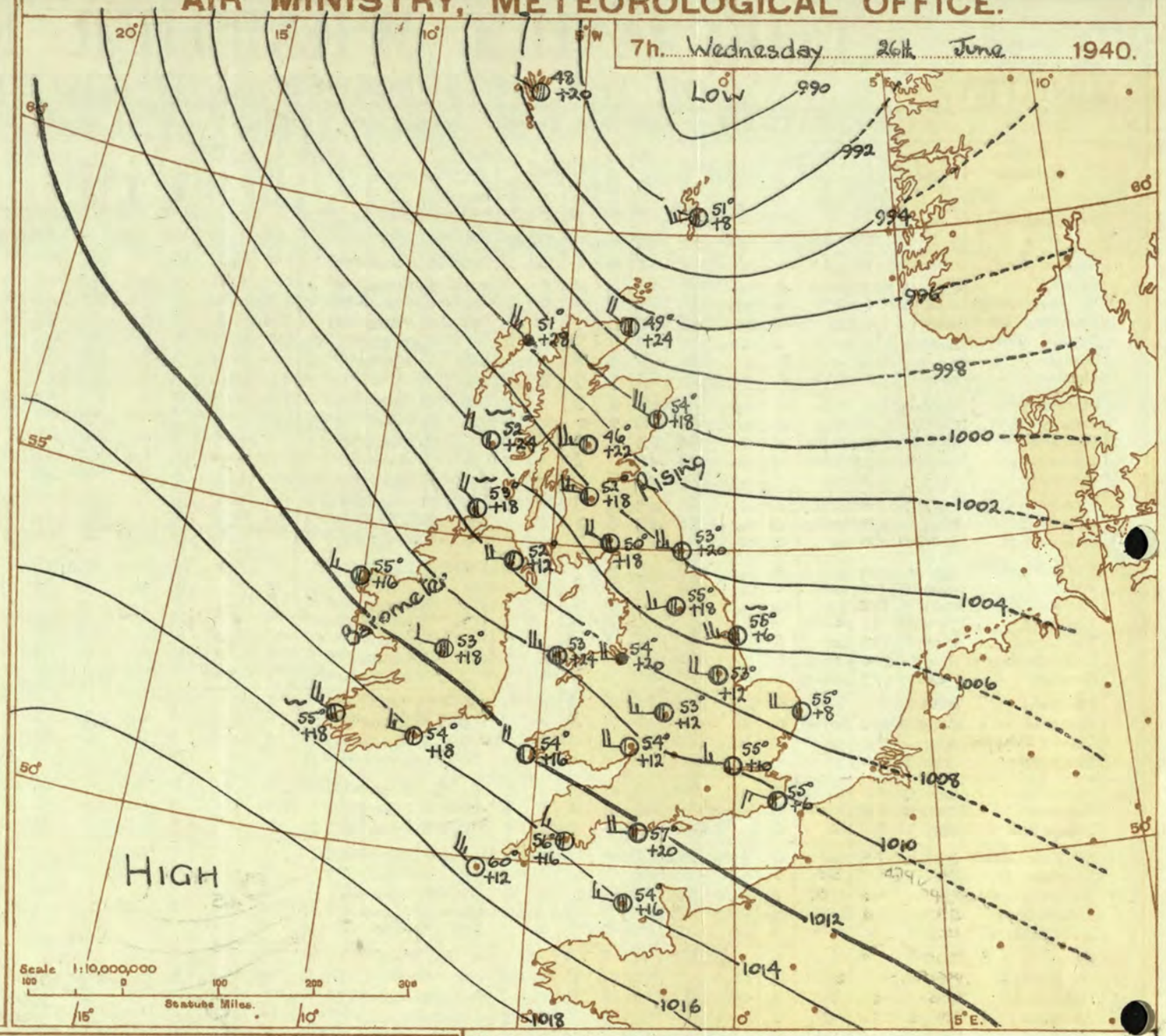
Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

COLUMN 29—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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 June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind northwest, moderate to fresh locally; occasional showers with thunder in places; bright periods, especially at night; cool.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind northwest, fresh at times, moderating, backing slowly tomorrow; bright periods; local showers; fine tomorrow; cool.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Fresh. rather squally northwest winds; rather frequent and heavy showers with local thunder; some bright intervals; cool.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Wind northwest, fresh to strong locally, squally, moderating slowly; cloudy; showery with heavy showers at times; very cool.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind northwest, fresh locally, moderating backing west to southwest tomorrow; considerable bright periods; some showers; mainly fine tomorrow; rather cool today.

GENERAL INFERENCE.

A deep depression centred north of the Shetlands will continue to fill up and drift eastwards slowly and a ridge of high pressure will move in from the Atlantic over our western districts. Cool, showery conditions will prevail today with local thunderstorms but weather will become fine in South and Southwest districts by tomorrow.

FURTHER OUTLOOK.

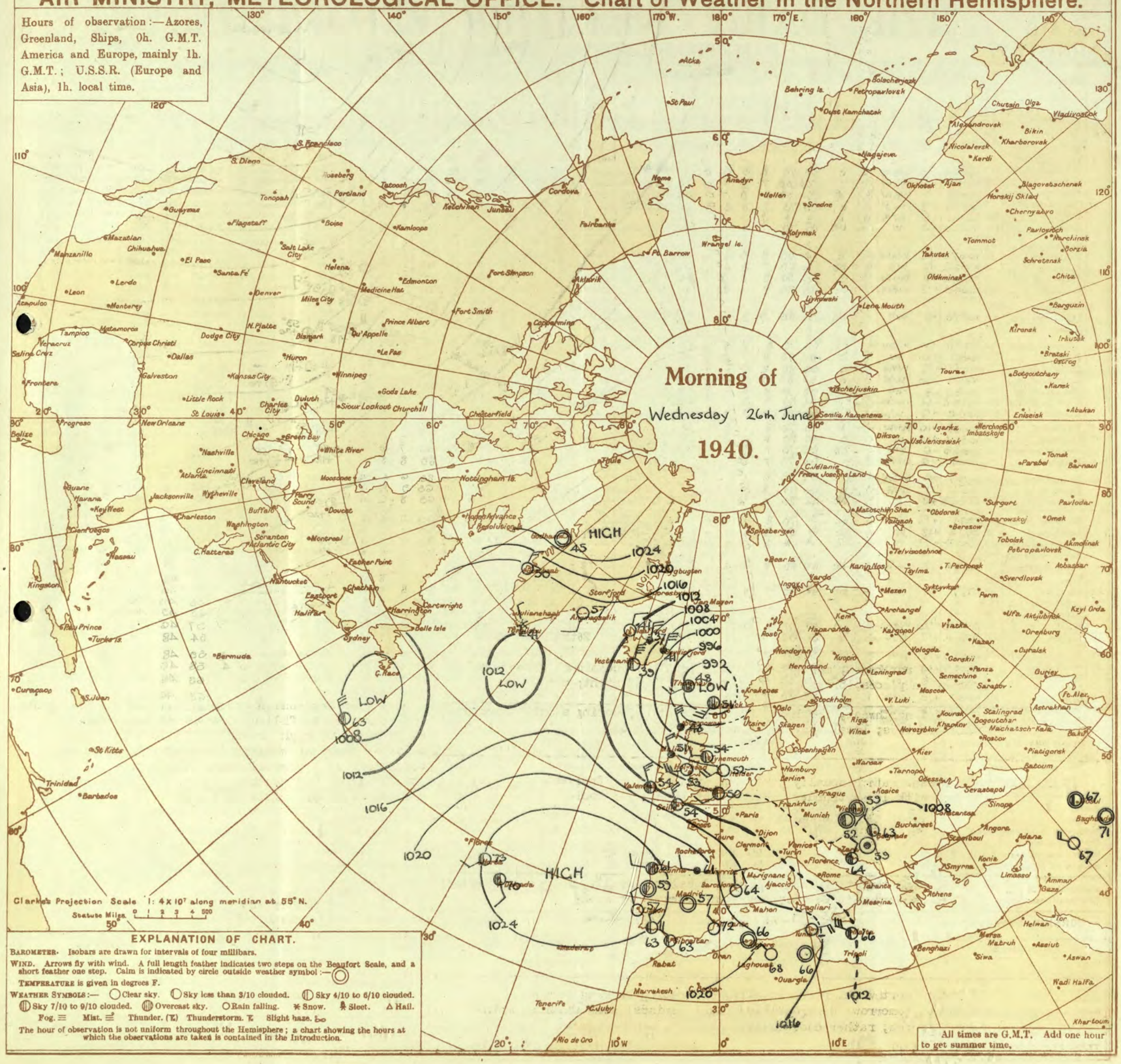
Cool and rather showery in the eastern counties at first; rain probably spreading to western districts.

Forecasts issued at 1030.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 26th June 1940.

No. 28,706

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1008.4	0	WSW	2	c	54	75	8	8	3	-	1	7-8	4000
	S. Farnborough	226	1008.6	+2	WSW	3	c	52	85	7	5	-	-	7-8	7-8	4000
	Boscombe Down	417	1008.8	0	WSW	3	2	50	85	7	5	7	-	4-6	4-6	4000
	Calshot (Sthmtn.)	8	1009.2	+2	W'S	3	c	55	75	7	5	3	8	4-6	7-8	4000
	Lympne ...	346	1009.1	+2	W'S	3	b	*	*	7	-	-	-	0	0	-
	Manston ...	154	1008.0	+4	W	3	bc	52	75	7	5	-	-	2-3	2-3	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1007.0	+6	WSW	4	c	57	65	8	5	3	-	1	3	5700
	Gorleston ...	5	1006.0	+6	W'S	3	bc	52	65	7	5	4	-	2-3	2-3	2500
	Mildenhall ...	19	1006.5	+8	SW'N	3	c	52	85	8	5	3	-	4-6	7-8	4000
	Cranwell ...	240	1005.9	+2	WSW	2	b	49	85	7	-	6	-	0	Tr	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1007.9	+6	W'S	1	bc	51	85	7	5	-	-	2-3	2-3	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1009.9	+6	WNW	4	bc	50	75	8	3	4	-	4-6	4-6	2500
	Bristol ...	209	1008.7	+10	W	2	b	51	75	8	-	3	-	0	Tr	-
	Portland Bill ...	32	1009.2	+12	WNW	5	c	56	85	8	5	-	-	7-8	7-8	4000
	Plymouth ...	82	1011.5	+10	W'N	3	c	54	85	7	5	-	-	7-8	7-8	2500
	The Lizard ...	240	1012.5	+8	NW	5	c/pr	55	75	8	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	1013.3	+14	NWW	5	bc/pr	54	85	8	9	-	-	4-6	4-6	1500
	Guernsey ...	175	1011.6	+2	WN	3	c/r	56	97	7	8	7	-	7-8	9+	2500
6	Pembroke ...	142	1009.9	+10	WNW	4	b	53	75	8	-	3	-	0	1	-
7	Holyhead ...	26	1006.4	+10	W	5	b	53	85	8	5	3	1	Tr	Tr	5700
	Chester (Sealand)	16	1006.0	+6	W'S	4	bc	52	75	7	8	-	-	2-3	2-3	2500
8	Manchester ...	70	1005.3	+6	SW'W	3	c	50	75	7	8	-	-	7-8	7-8	2500
10	Spurn Head ...	29	1004.1	+4	SW'W	4	b	52	75	6	1	-	-	1	1	800
	Catterick ...	175	1002.1	0	W'S	3	b	50	75	8	5	6	-	1	1	4000
	Tynemouth ...	108	1000.5	+4	W	2	bc	54	85	6	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	997.7	+2	W	5	bc	51	75	8	4	6	4	4-6	4-6	2500
	Leuchars ...	36	997.8	+18	W	4	bc	51	85	8	5	-	-	4-6	4-6	2500
12	Renfrew (Abbots I.)	19	1000.4	+22	W	3	bc	*	*	8	5	6	-	2-3	4-6	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1003.8	+6	W'N	5	bc	52	85	8	4	4	-	4-6	4-6	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	997.7	+6	NW	6	pr	48	85	7	8	7	-	4-6	7-8	1500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	992.9	+20	WSW	4	pr	47	97	7	9	7	8	7-8	9	450
16	Lerwick ...	156	990.4	+2	S'W	5	c	51	92	8	5	7	-	7-8	10	1500
17	Blacksod Point	18	1009.0	+18	W'N	3	bc	51	85	7	3	-	-	4-6	4-6	1500
18	Malin Head ...	84	1004.2	+14	NNW	4	pr	51	85	7	9	6	-	4-6	7-8	2500
	Aldergrove ...	268	1004.7	+18	W	4	pr	50	85	8	2	-	-	4-6	4-6	2500
19	Birr Castle ...	173	1009.7	+10	WNW	1	bc	48	85	8	-	4	1	0	2-3	-
20	Valentia Obsy.	30	1013.3	+14	NW'W	5	bc/pr	54	75	8	3	-	-	2-3	2-3	2500
	Roches Point	22	1012.1	+12	WNW	3	bc	51	85	8	3	-	5	2-3	4-6	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1010.5	+14	W	3	b	55	65	8	2	-	-	Tr	Tr	2500	0	*
	Croydon ...	1010.1	+10	W'N	3	b	55	65	8	1	-	-	Tr	Tr	2500	0	*
	S. Farnborough	1010.7	+14	W'S	4	b	54	75	8	1	-	-	Tr	Tr	4000	0	*
	Boscombe Down	1011.0	+14	W	4	bc	53	75	8	2	7	-	2-3	2-3	2500	0	*
	Calshot (Sthmtn.)	1011.3	+10	WNW	4	b	55	75	8	1	4	-	Tr	Tr	4000	0	1
	Lympne ...	1010.4	+6	WNW	3	bc	55	75	8	-	7	-	0	2-3	-	0	2
	Manston ...	1009.3	+10	W'N	3	c	56	75	7	2	3	-	4-6	7-8	1500	0	*
2	Shoeburyness ...	1009.8	+14	W	3	bc	58	65	8	1	3	-	Tr	2-3	4000	0	*
	Felixstowe ...	1008.5	+10	WNW	4	b	57	65	8	7	-	-	Tr	Tr	2500	0	1
	Gorleston ...	1007.4	+8	W'N'	4	bc	55	65	7	-	4	-	0	2-3	-	0	2
	Mildenhall ...	1008.2	+14	W	4	b	54	75	8	1	4	-	Tr	Tr	4000	0	*
	Cranwell ...	1007.5	+12	W'N	4	bc	53	75	8	5	-	-	2-3	2-3	4000	1	*
3	Birmingham ...	1009.6	+12	W	3	bc	53	75	8	7	-	-	4-6	4-6	2500	1	*
	Upper Heyford	1009.4	+8	WNW	3	b	54	65	8	7	-	-	Tr	Tr	4000	0	*
4	Ross-on-Wye	1010.6	+12	W	4	b	54	60	8	8	-	-	1	1	2500	0	*
5	Hartland Point	1012.9	+18	NW	4	bc	56	75	8	2	6	-	2-3	4-6	2500	0	3
	Bristol ...	1011.9	+16	W'N	3	b	53	75	8	2	-	-	1	1	2500	1	*
	Portland Bill ...	1012.8	+20	W	4	bc	57	85	8	1	-	-	1	4-6	4000	1	3
	Plymouth ...	1013.9	+16	NW'W	3	bc	56	75	8	3	-	3	2-3	4-6	1500	0	2
	The Lizard ...	1010.1	+12	WNW	4	bc	54	85	8	8	6	-	2-3	4-6	2500	1	2
	Scilly (St. Mary's)	1015.3	+14	NW'W	5	bc/pr	56	75	8	8	6	-	4-6	4-6	1500	1	3
	Guernsey ...	1014.0	+16	WNW	3	c/r	54	85	9	8	3	8	4-6	7-8	2500	1	3
6	Pembroke ...	1012.1	+16	NW	4	bcq	54	85	8	8	4	-	2-3	2-3	1500	1	3
7	Holyhead ...	1009.9	+24	W'N	5	c	53	85	8	5	-	-	9+	9+	4000	1	3
	Chester (Sealand)	1008.9	+20	W	4	PR	54	85	7	8	-	3	9	9+	1500	1	*
8	Manchester ...	1007.7	+18	W'N	4	c	53	85	8	8	-	-	4-6	7-8	2500	1	*
10	Spurn Head ...	1005.1	+6	W'S	5	bc	56	85	6	4	4	-	4-6	4-6	800	0	4
	Catterick ...	1005.2	+18	WSW	3	bc	55	65	9	2	4	1	4-6	4-6	2500	0	*
	Tynemouth ...	1003.8	+20	W	5	bc	53	65	8	2	4	1	4-6	4-6	2500	0	1
11	St. Abbs Head	1002.1	+22	W	5	bcq	52	65	9	4	4	9	2-3	4-6	2500	0	3
	Leuchars ...	1002.0	+22	W	3	bc	53	65	8	2	4	-	2-3	4-6	2500	0	*
12	Renfrew (Abbots I.)	1004.6	+18	WNW	5	bc	52	65	9	8	4	9	2-3	2-3	2500	1	*
	Eskdalemuir ...	1004.5	+18	WNW	4	bc	50	75	8	8	4	-	2-3	4-6	2500	1	*
	Point of Ayre ...	1007.8	+24	NW'W	5	bc	55	75	8	8	4	-	2-3	2-3	2500	0	3
13A	Tiree ...	1006.2	+24	NW'W	4	bc	52	75	8	8	6	-	4-6	4-6	1500	0	4
13B	Stornoway ...	1002.1	+28	NW	5	pr	51	75	8	8	9	-	4-6	7-8	1500	1	3
15	Dalwhirnie ...	1003.2	+22	W	5	bc	46	75	7	3	4	1	2-3	4-6	2500	1	*
	Aberdeen ...	1000.7	+18	NW	5	c	54	55	8	3	3	3	4-6	7-8	2500	0	2
	Wick ...	997.7	+24	NW	4	c/pr	49	92	8	8	7	-	7-8	9+	800	1	2
16	Lerwick ...	991.9	+8	WSW	3	c	51	85	8	8	7	-	4-6	9	800	0	*
17	Blacksod Point	1011.8	+16	W'N	3	bc	55	75	8	3	6	-	2-3	4-6	800	0	3
18	Malin Head ...	1007.9	+18	NW	4	bc	53	65	8	2	8	-	2-3	4-6	5700	0	4
	Aldergrove ...	1008.6	+24	W	4	bc	52	75	8	8	-	-	4-6	4-6	4000	0	*
19	Birr Castle ...	1012.7	+18	WNW	2	c	53	75	8	-	3	-	0	7-8	-	0	*
20	Valentia Obsy.	1015.5	+18	NW'W	5	bc/pr	55	85	8	8	-	-	4-6	4-6	2500	1	4
	Roches Point	1014.5	+18	WNW	3	bc/pr	54	85	8	3	-	-	4-6	4-6	1500	1	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 25th Hrs. (36)
1	London (Kew)	67	52	46	-	Tr	12.4
	Croydon ...	69	51	47	-	Tr	12.0
	S. Farnborough	68	49	45	-	0.1	12.2
	Boscombe Down	65	46	41	-	0.6	11.9
	Calshot (Sthmtn.)	66	50	49	-	-	12.7
	Lympne ...	72	49	44	-	-	13.1
	Manston ...	71	49	46	-	-	12.1
2	Shoeburyness ...	71	53	47	-	-	10.2
	Felixstowe ...	72	53	49	-	-	9.2
	Gorleston ...	69	48	47	-	-	11.3
	Mildenhall ...	69	47	40	-	-	10.1
	Cranwell ...	67	45	45	-	1	8.2
3	Birmingham ...	64	47	43	Tr	-	10.6
	Upper Heyford	67	44	39	-	-	*
4	Ross-on-Wye	66	47	43	Tr	-	8.1
5	Hartland Point	61	50	48	0.3	1	5.1
	Bristol ...	65	47	37	-	2	8.7
	Portland Bill ...	61	53	*	-	-	*
	Plymouth ...	65	51	47	-	0.5	10.1
	The Lizard ...	62	53	*	-	-	9.9
	Scilly (St. Mary's)	65	51	*	-	1	9.6
	Guernsey ...	65	53	49	-	Tr	12.4
6	Pembroke ...	60	52	*	2	-	7.5
7	Holyhead ...	61	52	49	Tr	-	8.9
	Chester (Sealand)	64	51	45	0.1	1	9.4
8	Manchester ...	65	49	44	-	0.1	8.9
10	Spurn Head ...	68	49	*	-	-	9.6
	Catterick ...	65	48	42	Tr	-	12.1
	Tynemouth ...	64	51	43	-	-	*
11	St. Abbs Head	61	50	*	Tr	-	*
	Leuchars ...	65	48	45	Tr	-	12.5
12	Renfrew (Abbots I.)	61	47	43	3	3	7.7
	Eskdalemuir ...	59	45	43	1	0.5	8.2
	Point of Ayre ...	66	51	*	0.4	Tr	10.0
13A	Tiree ...	58	48	*	2	1	5.1
13B	Stornoway ...	57	46	*	1	2	1.1
15	Dalwhirnie ...	55	43	39	2	3	4.9
	Aberdeen ...	63	49	44	-	-	13
	Wick ...	57	46	*	1	1	*
16	Lerwick ...	54	48	*	0.2	Tr	8.2
17	Blacksod Point	59	48	*	3	1	*
18	Malin Head ...	58	46	*	2	3	10.8
	Aldergrove ...	63	48	45	0.2	Tr	10.0
19	Birr Castle ...	63	46	43	Tr	Tr	12.7
20	Valentia Obsy.	60	51	47	1	1	8.0
	Roches Point	64	49	*	0.5	1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	cy	cy	bcpcbc	67	52	46	-	Tr	12.4	•	•	8
Croydon ...	217	cbcy	bcy	bcyqpc	69	51	47	-	Tr	12.0	•	•	8
Greenwich (Royal Observatory) ...	149	cy	bcdy	cby	69	50	43	-	-		35	52	8
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	69	52	47	-	-	10.0	53	61	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	68	51	48	-	-	10.5	51	59	•
Camden Square ...	110	bc	bc	•	70	52	48	-	-	•	•	53	•
Kensington ...	80	bc	bc	•	70	51	47	-	-		40	58	•
Hampstead Observatory ...	450	bc	bcb	bc	67	49	44	-	Tr		•	69	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.

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

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 25th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 26th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...											•	•		

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

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

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

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

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

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 27th June 1940.

No. 28,707

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1012·6	+12	SE'E	3	pr	61	55	8	9	-	-	7·8	7·8	1500
	Croydon	1012·1	+10	WNW	3	c/pr	64	45	9	3	6	3	4·6	7·8	4000
	S. Farnborough	1012·7	+12	W	4	c	61	45	9	2	3	-	4·6	7·8	4000
	Boscombe Down	1013·4	+10	WSW	4	bcjp	63	45	8	8	-	-	4·6	4·6	4000
	Calshot (Soton.)	1013·2	+8	WNW	4	bc	64	45	8	2	4	-	4·6	4·6	4000
	Lympne	1012·9	+10	W'S	3	c	65	35	9	2	6	-	4·6	7·8	4000
	Manston	1012·5	+12	W	4	c	64	45	7	8	-	-	7·8	7·8	1500
2	Shoeburyness	1012·2	+12	W'S	4	c/pr	65	45	8	8	6	-	4·6	7·8	2500
	Felixstowe	1010·8	+14	NW'W	5	c/pr	64	45	8	3	6	3	9	9+	4000
	Gorleston	1009·5	+10	WSW	4	bc	61	45	7	8	-	-	4·6	4·6	2500
	Mildenhall	1010·4	+10	W'N	5	phr	66	45	6	8	-	-	9	9	1800
	Cranwell	1010·3	+20	WNW	4	bc	62	35	7	9	-	-	4·6	4·6	2500
3	Birmingham	1011·9	+14	NNW	3	c/pr	62	46	8	8	-	-	7·8	7·8	2500
	Upper Heyford	1012·1	+14	WNW	4	c	59	45	8	8	-	-	7·8	7·8	2500
4	Ross-on-Wye	1012·7	+12	W	5	bc	62	45	9	1	-	-	4·6	4·6	4000
5	Hartland Point	1015·8	+14	NW	3	bc	59	75	8	2	-	-	2·3	4·6	2500
	Bristol	1014·2	+12	W	4	pr	60	65	8	8	-	-	7·8	7·8	2500
	Portland Bill	1015·6	+16	W	4	bc	60	85	8	5	-	-	2·3	2·3	4000
	Plymouth	1016·2	+10	W'N	4	c	61 (64 corrected)	55	8	3	-	-	7·8	7·8	2500
	The Lizard	1017·2	+8	W	5	bc	60	75	8	8	-	-	4·6	4·6	2500
	Scilly (St. Mary's)	1017·7	+12	WNW	5	c	61	65	8	8	6	-	4·6	7·8	1500
	Guernsey	1016·7	+10	WNW	5	bc	62	75	8	1	7	8	2·3	2·3	2500
6	Pembroke	1015·3	+6	W'N	5	bc	57	86	8	2	7	-	2·3	4·6	1500
7	Holyhead	1012·4	+8	SW'W	3	bc	60	55	9	8	3	1	2·3	2·3	4000
	Chester (Sealand)	1012·1	+14	NW	5	bc	59	45	8	2	-	-	4·6	4·6	2500
8	Manchester	1011·3	+18	WNW	4	bc	59	55	8	2	-	-	4·6	4·6	4000
10	Spurn Head	1008·9	+10	W'N	6	cq	63	65	6	2	-	-	7·8	7·8	800
	Catterick	1008·1	+14	W'N	4	bc	64	46	8	8	6	-	4·6	4·6	2500
	Tynemouth	1007·6	+14	NW	2	bc/pr	60	65	7	2	-	-	4·6	4·6	2500
11	St. Abbs Head	1006·9	+16	NW	4	bc	56	45	9	2	4	-	4·6	4·6	2500
	Leuchars	1005·6	+14	WNW	5	bc	62	45	9	2	6	-	4·6	4·6	2500
12	Renfrew (Abbots I.)	1008·0	+10	NW'W	4	c	58	65	8	8	3	3	4·6	7·8	2500
	Eskdalemuir	1007·8	+18	WNW	4	bc	56	45	8	8	-	-	4·6	4·6	2500
	Point of Ayre	1010·8	+12	NW	3	bc	63	55	8	2	-	9	1	2·3	2500
13A	Tiree	1008·3	+6	NW	4	bc	55	75	8	8	-	-	4·6	4·6	1500
13B	Stornoway	1005·9	+12	WNW	5	c/pr	51	75	8	8	6	3	4·6	7·8	1500
15	Dalwhinnie	1007·0	+18	W	3	bc	46	85	7	3	6	1	4·6	4·6	2500
	Aberdeen	1004·5	+14	NW	5	bcjp	59	45	8	8	7	-	4·6	4·6	4000
	Wick	1001·7	+18	NW	5	c/pr	52	85	8	8	7	-	7·8	9+	800
16	Lerwick	996·6	+24	W'N	4	c/pr	55	75	8	8	7	-	7·8	9+	800
17	Blacksod Point	1014·1	+16	WNW	4	bc	57	75	8	3	5	-	2·3	2·3	800
18	Malin Head	1010·3	+10	NW	4	c/pr	52	75	8	3	-	8	4·6	7·8	4000
	Aldergrove	1010·5	+10	W	3	c/pr	57	75	9	8	-	-	9	9	2500
19	Birr Castle	1013·8	+4	WNW	3	c/f	60	55	8	5	-	4	7·8	7·8	2500
20	Valentia Obsy. †	1018·2	+10	NW'W	4	c	57	75	8	8	-	-	9	9	2500
	Roches Point	1016·2	+8	NW'W	4	c/pr	58	85	8	3	4	3	4·6	7·8	1500

OBSERVATIONS at 18h. G.M.T. 26th June. — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. (20)	Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	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)	Weather 7h.—13h. (37)	13h.—18h. (38)	18h. to 1h. (39)	1h.—7h. (40)
London (Kew)	1014·1	+10	NNW	3	bc	66	35	8	8	-	-	4·6	4·6	2500	1	*	bccpropry	cprcbcy	bcyc	cbcw
Croydon	1013·7	+10	WSW	4	bc	63	55	8	3	6	1	4·6	4·6	4000	0	*	bbcypro	bccq bcy	prbcyproc	cw ⊕
S. Farnborough	1014·4	+10	WSW	4	bc	62	45	9	8	3	-	4·6	4·6	4000	0	*	bvcy	cprobcty	bcpro	bcw
Boscombe Down	1015·6	+18	WNW	5	bc	62	45	8	2	7	-	2·3	2·3	4000	0	*	bc	probcy	bcprbc	bccmo
Calshot (Soton.)	1015·0	+10	NW'W	5	bc	65	45	8	2	6	-	2·3	2·3	4000	0	3	bbcypro	bcyq	bcqprbc	cbc
Lympne	1015·3	+18	WSW	4	c	60	65	9	2	6	1	7·8	9+	2500	0	§	pbcy	bccproty	cpro bc	c ⊕
Manston	1014·4	+16	NWN	2	cjp	60	55	8	8	4	3	4·6	7·8	4000	0	*	bccprocy	procy	cyjpbc	bcproc
Shoeburyness	1014·2	+12	NW	2	bc	63	65	8	8	6	-	1	2·3	4000	0	*	bcycpo	probcyjp	bccpr	cbc
Felixstowe	1012·9	+4	SSW	3	f/tlr	58	75	8	9	6	-	4·6	7·8	1500	1	2	bvycpr	proTLR	bcprqbl	cbqc
Gorleston	1012·2	+12	WSW	3	c	62	45	7	8	-	-	7·8	7·8	2500	0	2	bcprytq	bctlriroc	cprotlc	cprobc
Mildenhall	1012·8	+18	W'N	4	bc	64	45	8	8	6	-	4·6	4·6	4000	0	*	bcyzphrq	phtlrbcy	bcycbc	bcbcmoc
Cranwell	1012·7	+16	W'N	4	bc	62	45	7	2	4	-	2·3	4·6	2500	0	*	proqbc	bcqbcy	bcprq,bmo	bbccmo
Birmingham	1013·9	+14	WNW	3	bc	61	45	8	8	7	-	4·6	4·6	2500	1	*	bcpro	bc	bc	bc
Upper Heyford	1014·1	+12	WNW	3	bc	62	45	8	2	-	-	2·3	2·3	2500	1	*	bccprbc	bcy	bcc	bccbc
Ross-on-Wye	1014·7	+10	W	4	bc	62	55	8	8	-	-	2·3	2·3	4000	0	*	bcvy	bcvy	qpobcc	bcc
Hartland Point	1017·1	+8	NW	4	bc	59	75	8	2	4	-	2·3	4·6	4000	0	3	bcp	bc	bcc	c
Bristol	1015·8	+6	W'S	4	bcjp	63	65	8	3	4	-	4·6	4·6	2500	0	*	bcprc	cbcyjp	bccPRcbc	bcwc
Portland Bill	1016·9	+12	W	4	bc	60	85	8	5	-	-	4·6	4·6	4000	1	4	bc	bc	bcc	c
Plymouth	1018·6	+18	NW'W	3	c	61	55	8	2	6	1	4·6	7·8	2500 (7200 corrected)	0	2	bcprbcy	bcycybcy	bcypro	bbcproc
The Lizard	1019·7	+12	W'N	5	bc	59	85	7	8	-	-	4·6	4·6	7200	1	3	bc	probc	bcc	c
Scilly (St. Mary's)	1019·8	+12	WNW	5	bc	61	65	8	8	7	-	4·6	4·6	2500	0	2	bcpoqc	cbc	bcc	c
Guernsey	1018·5	+14	W'N	5	bc	61	75	8	-	3	1	0	2·3	-	1	3	cirbc	bc	bcc	c
Pembroke	1016·2	+4	W'N	6	bcq	57	85	8	7	6	-	4·6	4·6	2500	0	3	bcq	bcq	cbc	bcc
Holyhead	1013·9	+10	W'S	4	bc	58	65	9	8	3	1	2·3	4·6	2500	0	3	cbcb	bPRbc	bc	cbc
Chester (Sealand)	1013·6	+4	WSW	3	c/pr	59	55	8	2	4	-	4·6	7·8	2500	1	*	cmoprbc	bccytprc	cprobc	bccPRpro
Manchester	1013·3	+12	W'N	3	c/pr	56	65	7	9	5	-	7·8	9	4000	1	*	prPRbc	bcyprc	cqbcbcmo	fgwcmo
Spurn Head	1011·8	+14	—	0	c	57	75	8	8	-	-	7·8	7·8	800	0	1	qprot	proc	cbc	
Catterick	1011·7	+18	W	2	c	58	75	8	8	6	-	9	9+	2500	1	*	bcvybc	bccypro	cybcb	bvcbc
Tynemouth	1009·7	+14	W	4	c/pr	58	85	7	2	-	-	7·8	7·8	2500	1	1	bcpo	bccp		bc
St. Abbs Head	1008·7	+14	NW	4	c	56	55	8	3	6	9	4·6	7·8	2500	0	3	cbcqy	cy	bcl	bbc
Leuchars	1008·2	+14	WSW	4	bc	58	55	9	2	6	-	2·3	4·6	2500	0	*	bcbcy	bcycprobcy	bcybbc	bcbbcb
Renfrew (Abbots I.)	1010·7	+14	W	4	bc/pr	56	65	9	8	-	-	2·3	2·3	2500	0	*	bccdr	cypro,b	bcbbc	bcpro
Eskdalemuir	1010·8	+2	WSW	3	c	53	65	8	8	-	-	7·8	7·8	2500	1	*	bcy	bccprobc	bcprobc	bccprbcw
Point of Ayre	1013·2	+12	WNW	3	bc	56	85	8	8	4	-	2·3	4·6	2500	1	2	bc	rrcbc	bc	c
Tiree	1010·4	+14	NW'W	4	bc	53	65	8	8	-	-	2·3	2·3	2500	0	4	bccpr	bc	bcpr	pRbc
Stornoway	1008·2	+12	WNW	4	pr	51	75	8	8	7	-	7·8	9+	1500	1	2	cbccpr	cpr		cbccpr
Dalwhinnie	1009·4	+12	W	4	bc	46	75	7	3	4	-	2·3	4·6	2500	1		ciriR	cir		cir
Aberdeen	1008·2	+20	NW	4	cjp	57	45	8	8	6	-	7·8	7·8	4000	0	2	robcy	phrcy	cprbc	bcbwb
Wick	1005·7	+16	NW	5	bcq	54	75	8	8	6	1	2·3	4·6	1500	1	2	cprq	probc	bcprc	cproc
Lerwick	1000·7	+6	W'S	5	c/pr	50	92	7	8	7	-	7·8	9+	800	1	*	cpr	cpr	cpr	roc
Blacksod Point	1015·8	+10	W	4	bc	56	65	8	3	5	-	2·3	4·6	800	0	3	bc	cbc	bc	c
Malin Head	1012·3	+16	NW	4	c	55	65	8	4	6	-	4·6	7·8	5700	0	3	c..	c	cprocPRc	cproc
Aldergrove	1012·9	+18	NW'W	4	cjp	59	55	8	8	-	3	7·8	7·8	2500	1	*	proprc	PHRprc	prbcb,c	bcc
Birr Castle	1016·3	+12	NW	2	c/pr	55	75	8	8	-	-	7·8	7·8	1500	0	*	cprc	rpc	cb	c
Valentia Obsy. †	1019·8	+10	W'N	4	c	58	65	8	2	5	2	1	9	2500	0	2	bcproprc	cprobcc	ciroc	c
Roches Point	1017·9	+12	NW	4	bc	62	65	8	3	-	5	4·6	4·6	1500	0	3	bcprc	pocbc	c	c

(Handwritten margin notes: beside The Lizard, "NOT AT STATION"; at right, "Error at Station (Printer's?)", "bcc/proc error not at station since correction was sent", "Error not at station".)

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

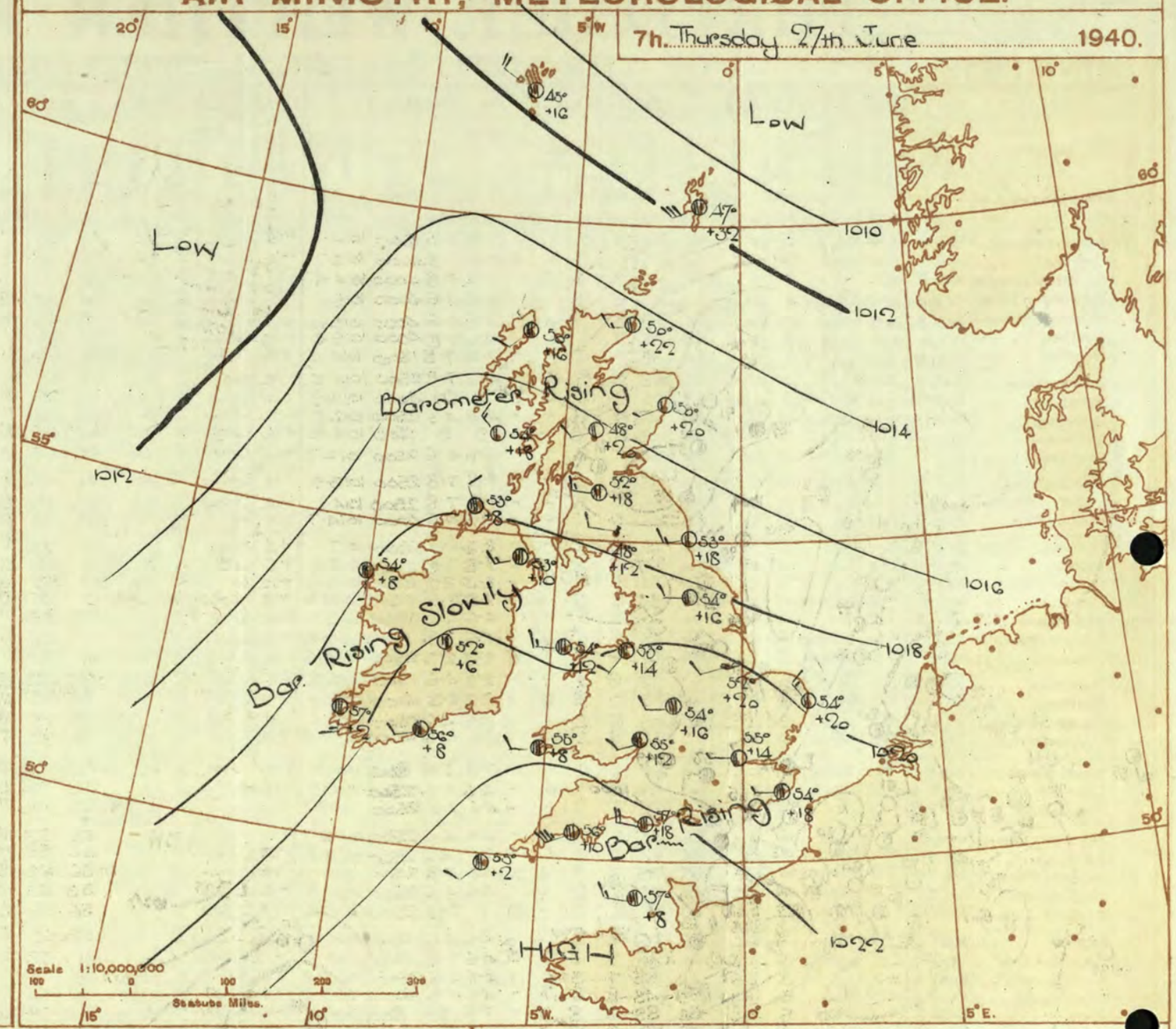
COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 27th June 1940.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light or moderate west wind, backing southwest; fair; high clouds later; average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light or moderate southwest wind, fresh locally later; mainly cloudy, occasional slight rain or drizzle; local coast and hill fog later; average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light or moderate west wind, backing southwest; fair at first, cloudy with occasional slight rain later; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Wind backing southwest or south, light or moderate, tending to freshen later; mainly cloudy, slight local showers at first, more general rain to-morrow; average temperature.
15 N. E. Scotland 16 Orkneys and Shetlands	Moderate or fresh west wind, falling light and backing southwest or south; variable cloud, local showers; rather cool.
17 N. W. Ireland 18 N. E. Ireland 19 S E. Ireland 20 S. W. Ireland	Freshening westerly wind; cloudy, rain spreading eastward; local coast and hill fog later; average temperature.

GENERAL INFERENCE.

A belt of high pressure extends from southeast of the Azores to West France and an associated wedge of high pressure is moving eastward over the British Isles. A depression on the Atlantic is beginning to affect West Ireland. Weather will be fair in the Southeast but rain or drizzle will spread over western and later over northern districts.

FURTHER OUTLOOK.

Cloudy with occasional rain or drizzle in the West and North, mainly fair and warmer in the Southeast.

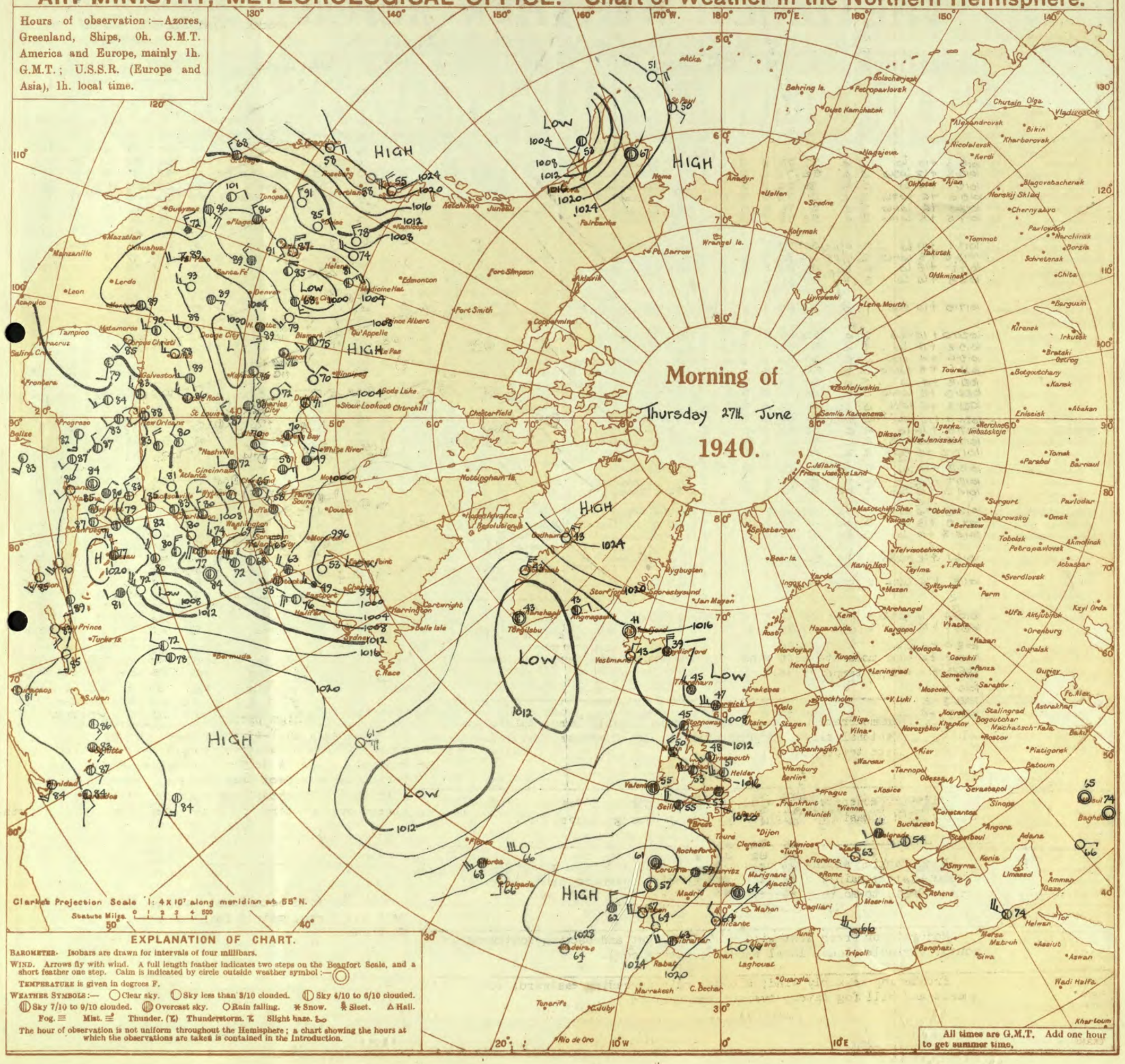
Forecasts issued at 1000 G.M.T.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 27th June 1940.

No 28,707

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

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	1018·3	+10	W	2	c	53	75	8	5	3	-	4-6	7-8	4000
	S. Farnborough	226	1018·8	+12	WSW	3	c	52	75	8	5	-	6	2-3	7-8	5700
	Boscombe Down	417	1019·1	+4	W	3	bc	50	92	8	5	7	-	4-6	4-6	4000
	Calshot (Sthmtn.)	8	1019·0	+6	WSW	3	c	51	85	8	5	3	6	2-3	9	4000
	Lympne	346	1018·0	+6	WNW	3	c	51	75	8	8	-	-	7-8	7-8	4000
	Manston	154	1017·5	+8	WNW	3	c	53	75	7	4	3	-	7-8	7-8	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	1017·1	+10	W	3	c/pr	54	75	7	4	4	-	4-6	7-8	4000
	Gorleston	5	1015·8	+8	WNW	2	c/pr	52	85	7	8	-	-	9	9	2500
	Mildenhall	19	1017·1	+18	W	2	bc	48	85	8	5	3	-	4-6	4-6	4000
	Cranwell	240	1016·9	+14	W	3	z_0	47	92	6	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1017·9	+10	SW	1	c	48	85	7	5	-	6	2-3	7-8	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1020·0	+14	NW	3	c	55	85	8	8	-	-	7-8	7-8	2500
	Bristol	209	1019·2	+8	W	1	c	52	92	7	5	3	-	4-6	7-8	4000
	Portland Bill	32	1019·6	+4	NW	4	c	57	85	8	5	4	-	7-8	10	4000
	Plymouth	82	1021·1	+8	WNW	3	bc	56	75	8	4	3	1	4-6	4-6	4000
	The Lizard	240	1021·8	+4	W	3	c	55	85	8	8	2	-	7-8	9+	1800
	Scilly (St.Mary's)	163	1022·3	+8	WNW	4	c	55	85	8	8	6	-	4-6	7-8	2500
	Guernsey	175	1021·2	+6	W'N	3	c	55	92	8	8	7	-	4-6	7-8	2500
6	Pembroke	142	1020·4	+10	NW	3	bc	54	85	8	7	7	1	2-3	4-6	2500
7	Holyhead	26	1017·8	+16	W	4	c	53	85	9	8	4	6	1	7-8	2500
	Chester (Sealand)	16	1017·6	+10	W'S	2	c	52	65	7	8	-	6	2-3	7-8	2500
8	Manchester	70	1017·2	+16	NW'N	2	z_0	42	97	6	5	4	-	7-8	7-8	4000
10	Spurn Head	29	1015·3	+12	W	5	bc	51	92	5	5	-	-	2-3	2-3	800
	Catterick	175	1015·9	+14	—	0	b	46	85	8	4	-	1	Tr	1	4000
	Tynemouth	108	1014·3	+16	SW	3	bc	48	75	7	2	-	1	2-3	2-3	2500
11	St. Abbs Head	280	1012·5	+14	WNW	5	bc	48	65	8	4	4	5	2-3	4-6	2500
	Leuchars	36	1012·9	+18	W	3	bc	46	75	7	4	3	-	2-3	2-3	2500
12	Renfrew (Abbots I.)	19	1014·3	+10	W	3	bc	47	85	8	5	-	5	2-3	4-6	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1016·1	+12	NW'W	5	bc	52	85	8	2	4	4	Tr	4-6	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1011·8	+16	WSW	2	c/pr	45	85	7	8	-	-	7-8	7-8	1500
15	Dalwhirnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1010·4	+16	WSW	3	c/pr	45	97	7	8	7	8	4-6	7-8	800
16	Lerwick	156	1006·1	+16	W	5	c/pr	47	85	7	8	7	-	7-8	9+	800
17	Blacksod Point	18	1018·0	+4	WNW	1	bc	49	85		4	4	-		2-3	
18	Malin Head	84	1015·4	+6	NW	4	c	50	75	8	8	-	4	4-6	7-8	5700
	Aldergrove	268	1016·9	+14	W'S	3	bc	49	85	8	8	3	-	2-3	4-6	5700
19	Birr Castle	173	1019·3	+10	N	1	b	48	85	8	-	-	-	0	0	-
20	Valentia Obsy.	30	1020·3	-2	—	0	c/r	55	92	8	5	2	-	7-8	10	2500
	Roches Point	22	1020·7	+6	W	3	c	55	85	8	5	7	-	4-6	9	1500

OBSERVATIONS at 7 hr. G.M.T. 27th June — 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 Hrs. (36)
London (Kew)	1023·3	+16	NW	1	bc	55	75	7	-	3	4	0	4-6	-	1	*	66	52	45	3	—	12·7
Croydon	1021·0	+14	WNW	1	bc	55	75	7	-	4	8	0	4-6	-	0	*	66	50	44	0·1	Tr	11·2
S. Farnborough	1021·4	+16	W'N	3	bc	55	75	8	7	3	4	2-3	4-6	4000	0	*	66	47	41	Tr	Tr	11·7
Boscombe Down	1021·2	+10	NW	2	c	56	85	8	8	3	1	1	9	4000	1	*	65	48	45	0·3	1	14·0
Calshot (Sthmtn.)	1021·7	+18	NW	3	c	59	75	8	1	5	1	Tr	7-8	4000	0	1	67	50	48	Tr	Tr	15·0
Lympne	1021·2	+18	WNW	1	c	54	75	8	-	4	7	0	10	-	0	§	66	48	46	Tr	2	10·4
Manston	1020·7	+18	NNW	3	c	58	75	7	4	3	6	1	9+	1500	6	*	66	49	46	Tr	Tr	7·7
Shoeburyness	1021·1	+20	NW'W	2	c	57	65	7	-	9	2	0	7-8	-	0	*	67	50	43	0·1	Tr	10·2
Felixstowe	1020·1	+16	W'N	3	c	55	75	7	-	7	2	0	9+	-	1	1	68	51	47	6	0·2	10·1
Gorleston	1018·9	+20	NW'W	3	bc	54	75	7	2	-	1	2-3	4-6	2500	0	2	64	48	47	1	0·3	11·8
Mildenhall	1020·2	+18	WSW	2	c	54	75	7	5	7	4	2-3	9	4000	0	*	67	43	36	1	—	12·5
Cranwell	1020·3	+20	W'S	2	z_0	52	75	6	5	7	2	1	7-8	4000	0	*	64	45	43	0·3	0·3	12·0
Birmingham	1020·9	+16	W	2	c	54	75	7	1	3	-	2-3	7-8	2500	0	*	63	49	44	0·5	—	10·6
Upper Heyford	1020·9	+16	S'W	2	bc	54	75	8	-	4	9	0	2-3	-	0	*	67	45	38	0·1	—	*
Ross-on-Wye	1021·0	+12	WSW	2	c	55	75	8	8	3	-	Tr	9	2500	0	*	65	49	43	—	Tr	12·8
Hartland Point	1022·1	+10	NNW	1	c	66	75	8	8	-	-	9	9	2500	0	2	60	55	53	0·4	—	11·8
Bristol	1022·0	+20	WNW	2	c	55	85	8	-	3	4	0	9+	-	1	*	64	49	42	1	4	12·6
Portland Bill	1022·0	+18	WNW	4	c	57	85	8	5	4	-	4-6	7-8	4000	1	4	60	54	*	—	—	*
Plymouth	1022·7	+10	WSW	2	c/pr	56	85	8	2	7	8	2-3	9+	1500	0	1	63	55	51	1	Tr	10·6
The Lizard	1023·1	+8	WSW	2	c	57	85	8	8	2	-	7-8	9+	2500	1	2	61	54	*	1	—	12·8
Scilly (St.Mary's)	1022·5	+2	SW'S	2	c	55	92	8	9	7	-	7-8	9+	2500	0	2	63	54	*	0·1	—	11·0
Guernsey	1022·9	+8	WNW	3	c	57	85	8	5	7	-	4-6	9+	2500	1	3	64	55	51	0·2	—	14·3
Pembroke	1021·9	+8	W	2	c	55	85	7	8	2	-	4-6	10	1500	0	2	59	53	*	—	—	11·5
Holyhead	1019·9	+12	W'N	3	c	54	85	8	2	-	9	Tr	7-8	2500	0	2	61	52	47	0·6	—	9·1
Chester (Sealand)	1020·1	+14	SW	2	c/pr	53	75	8	8	0	-	4-6	7-8	2500	1	*	61	50	44	0·1	2	10·2
Manchester	1019·7	+14	W	3	z_0	54	75	6	8	3	5	2-3	7-8	2500	0	*	63	40	34	1	-	8·7
Spurn Head																			*	0·4		
Catterick	1018·5	+16	WNW	2	bc	54	65	8	2	-	8	2-3	4-6	4000	0	*	64	39	29	0·1	—	10·1
Tynemouth	1017·4	+18	W	3	bc	53	65	8	2	3	1	2-3	4-6	2500	0	1	63	46	42	1	—	*
St. Abbs Head	1015·3	+16	WNW	4	bc	50	65	8	1	4	-	1	2-3	2500	0	3	59	46	*	—	—	*
Leuchars	1016·1	+18	W	2	bc	51	75	8	1	3	-	Tr	2-3	-	0	*	63	41	*	Tr	—	10·0
Renfrew (Abbots I.)	1017·2	+18	WNW	3	c/pr	52	75	8	8	3	-	7-8	7-8	1500	1	*	61	44	39	0·1	0·1	10·6
Eskdalemuir	1017·7	+12	WNW	2	pr	48	75	8	8	4	1	4-6	4-6	2500	1	*	66	39	32	Tr	1	10·7
Point of Ayre	1018·6	+10	WNW	4	c	55	85	8	2	4	9	1	7-8	2500	0	2	63	46	*	2	—	10·2
Tiree	1016·4	+18	NW'W	3	bc	54	55	8	8	3	-	2-3	2-3	2500	0	3	57	45	*	—	2	12·0
Stornoway	1015·2	+16	SW	2	c	50	75	8	5	7	-	4-6	7-8	2500	1	1	57	42	*	2	1	4·4
Dalwhirnie	1016·7	+20	WSW	2	bc	48	75	8	4	6	-	2-3	4-6	4000	1	*	54	39	34	3	1	8·1
Aberdeen	1015·9	+20	WSW	1	b	50	75	8	8	4	-	1	1	2500	0	2	61	39		0·3	1	11·1
Wick	1014·4	+22	W	3	bc	50	75	8	8	7	1	2-3	4-6	2500	1	1	55	40	*	2	Tr	*
Lerwick	1010·7	+32	W'S	6	c/pr	47	85	8	8	7	-	4-6	7-8	1500	0	*	56	45	*	1	0·2	3·9
Blacksod Point	1018·2	+8	S	1	c	54	85	8	-	7	-	0	10	-	0	2	60	48	*	1	1	*
Malin Head	1017·6	+8	NW	2	c	53	65	8	2	-	2	4-6	7-8	5700	0	3	57	45	*	0·5	2	11·7
Aldergrove	1018·6	+10	WSW	2	c	53	85	9	5	-	-	9	9	5700	1	*	66	45	40	3	0·6	7·2
Birr Castle	1020·2	+6	SSW	1	c	52	85	8	5	1	-	7-8	10	2500	0	*	64	44	41	0·6	1	8·8
Valentia Obsy.	1019·7	+2	S'E	3	c	57	92	8	5	-	-	9+	9+	800	0	2	60	53	51	1	0·4	7·7
Roches Point	1020·4	+8	W'S	2	c	56	85	8	5	7	-	2-3	9+	1500	0	2	63	55	*	1	0·2	*

not inserted otherwise O.K. S.J.R.

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		24 hrs. ended 9h.											
Kew	18	bccpr₀pry	cprcbcy	bcycbcw	66	52	45	3	—	12·7	•	•	8
Croydon	217	bbcypr₀	bccqbcypr	bcypr₀w	66	50	44	0·1	Tr	11·2	•	•	8
Greenwich (Royal Observatory)	149	cjpy	cptl by	bcy	65	49	40	1	—	11·2	53	50	8
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park)	27	*	*	*	66	52	47				63	70	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	67	52	49	1	—		70	55	*
Camden Square	110	bc	bc	*	67	52	46	1	—	*	*	51	*
Kensington	80	bcp	bcp	*	66	51	45	2	Tr		49	83	*
Hampstead Observatory	450	bcor	bc	bc	65	49	45	1	—		*	70	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington: Max.	Time.	Min.	Time.

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

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 26th June: Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 27th June: Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris														
Brussels														
Berlin														
Zürich														
Rome											•	•		

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30 —Code for State of Sea.

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

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

§ Sea disturbance reported from Dungeness.

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

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

SECRET

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 28th June, 1940.

No. 28708.

OBSERVATIONS at 13h. G.M.T. 27th June,

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1022.9	+8	S'E	2	c	64	45	8	2	5	-	4-6	9	2500
	Croydon ...	1022.4	+6	NW	1	c	63	45	8	2	5	-	4-6	9	2500
	S. Farnborough	1022.8	+6	W'S	3	c	66	35	8	2	7	-	2-3	9+	4000
	Boscombe Down	1023.2	+6	W	3	c	63	45	8	7	7	7	2-3	10	4000
	Calshot (Soton.)	1023.0	+6	W'N	3	c	66	45	8	1	7	-	2-3	9+	4000
	Lympne ...	1023.0	+8	SW'S	3	c	61	65	9	2	3	8	7-8	9	2500
	Manston ...	1023.2	+10	SSE	3	bc	60	75	8	8	-	1	7-8	7-8	2500
2	Shoeburyness ...	1022.6	+6	NW	2	c	66	45	8	2	6	9	4-6	7-8	4000
	Felixstowe ...	1022.3	+10	NW'W	3	c	67	45	8	2	6	2	4-6	7-8	4000
	Gorleston ...	1021.6	+12	NNE	4	bc	58	65	7	2	-	-	4-6	4-6	2500
	Mildenhall ...	1021.9	+6	WNW	2	bc	64	45	8	2	-	2	4-6	7-8	4000
	Cranwell ...	1021.9	+8	NW	3	bc	64	45	7	2	6	-	2-3	2-3	4000
3	Birmingham	1021.7	+4	WSW	2	bc	62	45	8	7	-	-	7-8	7-8	2500
	Upper Heyford	1022.2	+2	W	3	c	67	45	9	7	-	9	4-6	7-8	2500
4	Ross-on-Wye ...	1023.0	+10	WSW	3	c	61	55	8	7	-	-	9+	9+	2500
5	Hartland Point	1023.4	+6	WSW	3	c	59	85	8	8	2	-	4-6	9+	2500
	Bristol ...	1024.1	+10	W	3	r_or_o	60	65	8	5	7	-	Tr	10	1500
	Portland Bill ...	1024.5	+10	WSW	3	c	58	75	8	5	7	-	7-8	10	4000
	Plymouth ...	1024.3	+6	SSW	3	c	61	85	8	8	7	-	9	10	2500
	The Lizard ...	1024.3	+4	SW	2	e	64	85	8	8	6	-	7-8	7-8	2500
	Scilly (St.Mary's)	1023.6	+6	SW	4	c	62	85	8	8	6	-	4-6	9+	2500
	Guernsey ...	1024.7	+8	W	3	bc	65	65	9	2	3	1	2-3	4-6	2500
6	Pembroke ...	1022.9	+4	S'E	2	c	57	92	8	8	7	-	4-6	7-8	800
7	Holyhead ...	1021.9	+8	SW'S	3	bc	58	65	9	8	3	9	2-3	7-8	4000
	Chester (Sealand)	1022.0	+10	NW	2	bc	63	65	8	2	-	-	4-6	4-6	4000
8	Manchester ...	1021.8	+10	W	3	bc	64	45	8	1	4	-	4-6	4-6	4000
10	Spurn Head ...	1021.0	+4	W'N	2	c	66	55	6	2	-	-	7-8	7-8	1500
	Catterick ...	1020.2	+4	W'N	2	bc	63	35	9	8	-	-	7-8	7-8	4000
	Tynemouth ...	1019.8	+8	N	3	bc	60	45	8	2	-	-	4-6	4-6	2500
11	St. Abbs Head	1019.4	+16	NNE	2	c	54	65	9	8	4	1	4-6	7-8	2500
	Leuchars ...	1018.7	+14	SSE	2	c	61	55	9	8	-	-	7-8	7-8	4000
12	Renfrew (Abbots L.)	1019.7	+10	W	3	c	62	55	9	8	-	-	7-8	7-8	2500
	Eskdalemuir ...	1019.6	+12	SW'W	3	bc	59	45	8	8	-	-	4-6	4-6	2500
	Point of Ayre ...	1021.5	+6	NW	3	bc	63	65	8	2	4	-	1	2-3	4000
13A	Tiree ...	1018.9	+8	SW'W	2	bc	55	65	8	7	3	-	4-6	4-6	4000
13B	Stornoway ...	1018.0	+14	S	3	pr_o	54	75	9	5	7	-	7-8	7-8	2500
15	Dalwhinnie ...	1018.8	+6	SW	2	c	56	55	8	4	6	1	4-6	9	4000
	Aberdeen ...	1019.6	+14	SSE	3	c/pr	55	65	7	8	6	-	7-8	7-8	2500
	Wick ...	1019.4	+22	SSW	3	c	50	75	8	8	7	1	4-6	7-8	1500
16	Lerwick...	1016.2	+30	NW'N	5	c/rr_o	49	85	5	8	7	-	7-8	9	1500
17	Blacksod Point..	1017.6	-2	S	2	c	59	85	8	8	-	-	10	10	2500
18	Malin Head ...	1019.5	+6	E	1	bc	57	65	8	-	6	4	0	4-6	-
	Aldergrove ...	1019.7	+2	WSW	2	c	62	55	9	1	4	3	7-8	10	2500
19	Birr Castle ...	1019.8	-2	SSW	1	c	64	65	8	8	1	-	7-8	10	1500
20	Valentia Obsy. †	1020.3	+6	SW'S	4	c	63	75	8	5	7	-	7-8	9+	1500
	Roches Point ...	1020.6	0	SW'S	3	c	63	85	8	8	3	-	4-6	9	1500

OBSERVATIONS at 18h. G.M.T. 27th June, — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°Temp. (20)	%Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 27th (37)	Weather 13h.–18h. 27th (38)	Weather 18h. 27th–1h. 28th (39)	Weather 1h.–7h. 28th (40)
London (Kew)	1023.8	+8	W	3	c	65	45	8	7	7	-	4-6	7-8	4000	1	*	bcwcy	cbccy	cbcy	cz_o
Croydon	1023.5	+10	NW	1	bc	66	45	9	2	4	-	4-6	4-6	4000	0	*	bc⊕cy	cybcyv	bcyvbcw	c
S. Farnborough	1024.4	+12	NE	3	c	64	45	8	7	7	-	2-3	9	4000	0	*	bcyc	cbcy	bcyc	c
Boscombe Down	1024.9	+10	W	2	c	61	65	8	7	1	-	9	10	4000	0	*	c	c	cbc	ccm_o
Calshot (Soton.)	1024.5	+10	WSW	3	c	64	65	7	5	7	-	9	9+	4000	0	2	bcycy	cyc	c	cjfc
Lympne	1023.8	+6	WSW	2	c	63	65	8	8	-	8	4-6	7-8	4000	0	§ 3	c⊕c	cbc	bcbw	bwbc
Manston	1023.8	+6	SSE	3	c	61	85	8	8	4	1	4-6	7-8	4000	0	*	cbcc	cbcc	$bcbbm_ow$	bm_owbm_o
Shoeburyness	1023.5	+8	NW	1	bc	66	45	8	8	6	-	4-6	4-6	4000	0	*	cbccy	cybcy	bcbw	bwbc
Felixstowe	1023.1	+8	S	3	c	63	65	8	8	3	-	4-6	7-8	4000	0	2	cbcvy	cvybc	$bcbm_ow$	$jfbm_ojf$
Gorleston	1023.7	+10	SE'S	3	bc	59	65	7	4	-	1	2-3	4-6	2500	0	2	bcy	bc	bccb	bbcb
Mildenhall	1023.0	+6	NW	2	bc	66	45	8	8	6	3	4-6	4-6	4000	0	*-	cbcy	bcy	$bcbm_o$	bm_ocm_ow
Cranwell	1023.1	+6	W	2	bc	65	45	7	7	-	-	2-3	2-3	4000	0	*	cm_obcy	bcy	$bcybm_o$	$bbccm_o$
Birmingham	1023.2	+12	WSW	3	c	61	55	8	1	3	-	Tr	9	2500	0	*	cbc	bcc	c	c
Upper Heyford	1023.3	+6	W'S	2	bc	64	55	7	7	-	-	4-6	4-6	2500	0	*	bccy	bcy	bcyc	ccm_o
Ross-on-Wye	1024.1	+6	SW	2	c	59	75	8	5	1	-	9	10	2500	0	*	cc	c	c	c
Hartland Point	1023.8	+4	WSW	4	c	60	85	8	8	3	-	7-8	9	2500	0	3	c	c	c	c
Bristol	1024.5	+2	S	1	c	60	65	8	5	7	-	7-8	10	1500	0	*	cr_or_o	cr_oc	cbc	bccbc
Portland Bill	1025.0	+6	WSW	3	c	58	85	8	5	7	-	7-8	10	4000	1	3	cc	c	c	off
Plymouth	1024.5	+2	SW'S	3	c	60	85	8	7	7	-	7-8	9	2500	0	2	c	e	c	c
The Lizard	1024.5	+4	SW'S	2	c	61	92	8	8	6	-	7-8	7-8	2500	0	2	cbcc	cbcc	c	c
Scilly (St.Mary's)	1024.0	+4	SW	3	c	62	85	8	8	6	-	7-8	9	2500	0	2	bc	cbcc	c	c
Guernsey	1025.1	+2	WNW	2	b	64	65	9	-	-	8	0	1	-	0	3	cbc	bcb	bbcc	cbc
Pembroke	1023.2	+2	SSW	1	c	59	92	8	8	6	-	4-6	9+	1500	1	2	ir_oc	cbcc	c	c
Holyhead	1022.5	+2	SSW	3	c	57	85	9	3	7	-	Tr	9+	2500	0	2	bcbc	bcc	cr_oc	c
Chester (Sealand)	1023.4	+10	WNW	3	c	60	55	8	7	-	8	7-8	7-8	2500	0	*	bc	bccy	$cybcwz_om_o$	cm_ow
Manchester	1023.0	+4	W'N	3	bc	63	45	9	1	3	-	Tr	2-3	4000	0	*	prcybcy	bcy	$ycbcm_o$	bcm_ocm_o
Spurn Head	1023.0	+6	E'S	3	bc	59	75	6	1	-	-	4-6	4-6	1500	0	3	c	c	cbc	bc
Catterick	1022.3	+12	W'S	2	bc	65	45	9	7	6	-	2-3	4-6	4000	0	*	bccbcy	bcy	bc	$bcccm_o$
Tynemouth	1022.5	+12	S	3	bc	57	75	8	2	3	-	4-6	4-6	2500	0	1	bcp_obc	bc	bc	bcc
St. Abbs Head	1021.8	+4	SE	3	bc	55	65	9	7	6	-	4-6	4-6	2500	0	2	bcc	bcc	bc	bcc
Leuchars	1020.7	+10	S	4	bc	63	45	9	8	-	-	4-6	4-6	2500	0	*	b,cy	cybcy	bcybbc	bccbc
Renfrew (Abbots L.)	1021.8	+10	SW'S	2	c	61	45	9	7	3	3	1	9	2500	0	*	$bcpr_oc$	cb	$cbcycm_o$	cz_oc
Eskdalemuir	1022.0	+16	SW'S	3	bc	57	55	8	8	4	1	2-3	2-3	2500	1	*	pr_obc	bcvy		bccw
Point of Ayre	1022.5	+2	ESE	2	c	59	75	8	5	3	9	4-6	9	4000	0	1	bc	c	c	cpr_oc
Tiree	1019.7	+2	SSE	2	c	55	75	9	5	-	-	7-8	7-8	4000	0	2	bc	c	c	c
Stornoway	1020.1	+8	SSE	4	bc	55	75	8	5	4	6	1	4-6	2500	1	2	cpr	cprbc	bcc	cpr_o
Dalwhinnie	1021.3	+8	SW	3	bc	54	55	8	4	6	-	2-3	2-3	4000	0	*	cir	cir_obc	•	bcc
Aberdeen	1022.6	+18	SE'S	3	bc	54	65	7	8	-	-	2-3	2-3	4000	0	1	bbcpr	bcjpb		bbc.
Wick	1021.6	+12	SSE	3	c	51	75	8	5	6	1	4-6	7-8	1500	1	1	bcprc	cbcc	cbc	bcc
Lerwick	1020.9	+10	W	4	c	50	75	8	8	7	-	4-6	7-8	1500	1	*	cpr		cbc	bc
Blacksod Point	1017.0	-2	S	3	c	60	85	8	8	-	-	9	9	2500	0	2	c	c	cq	cq
Malin Head	1019.2	-4	E	3	c	59	75	8	6	-	-	7-8	7-8	5700	0	3	bc	c	c	c
Aldergrove	1020.6	+6	S	3	c	58	75	8	5	2	-	4-6	10	4000	1	*	cbcycy	cyc	$kbdod_oc$	ccm_oc
Birr Castle	1019.4	+2	SSW	1	c	65	65	8	8	1	-	7-8	9+	1500	0	*	c	cpr_oc	c	c
Valentia Obsy. †	1019.8	-2	S'W	5	c	62	85	8	5	3	-	4-6	9+	1500	0	3	cid_oc	c	c	c
Roches Point	1021.0	+4	W	3	c	63	75	8	8	-	-	7-8	7-8	1500	0	3	c	c	c	cir_o

all OK

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.
b(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄gale.
⊕ Solar halo. ⦶ lunar halo. ⌂Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain ; —, has decreased ; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

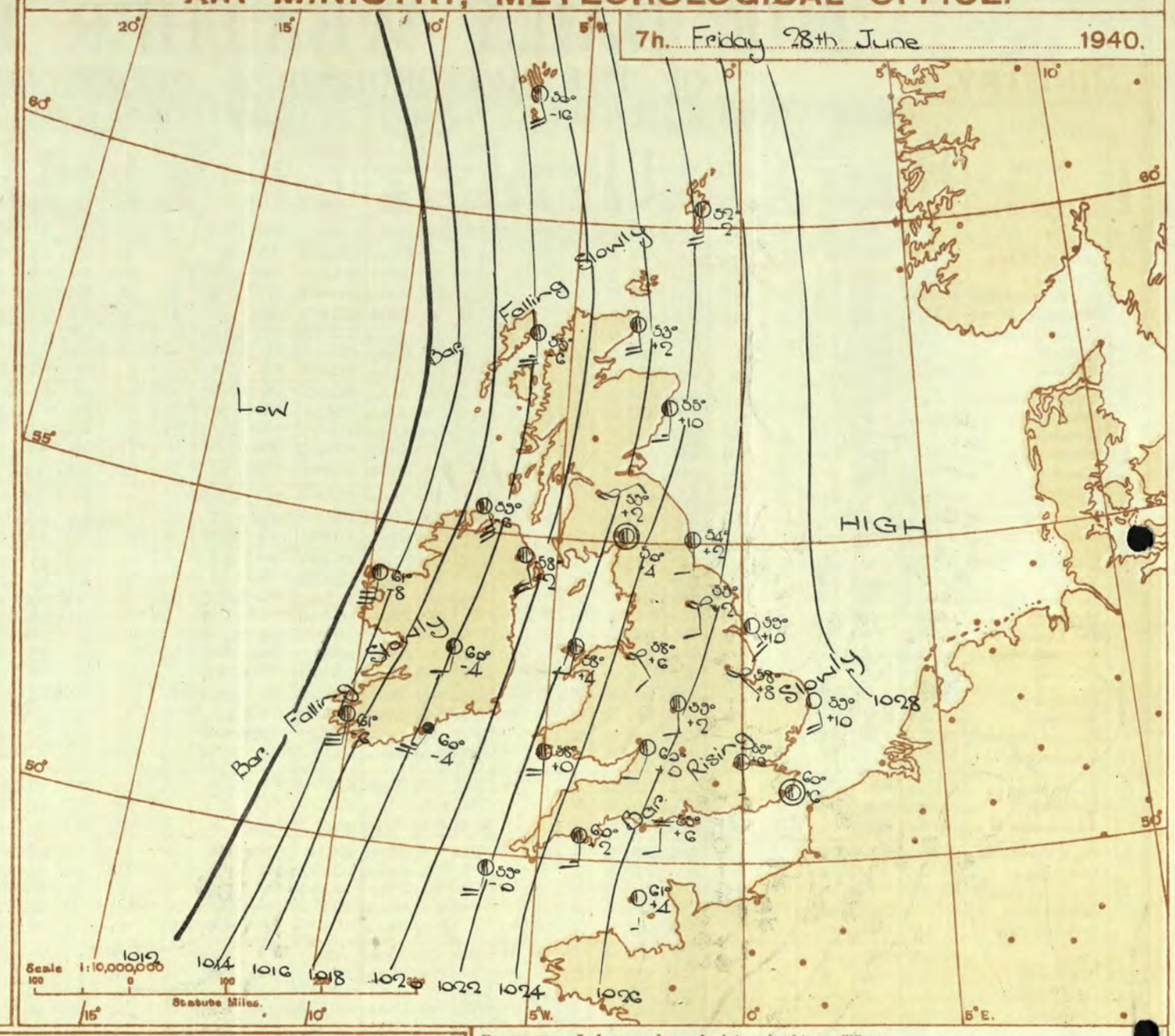
Cloud form abbreviations :—
Cirrus,–Ci : Cirrocumulus,–Cc : Cirrostratus,–Cs : Altocumulus,–Ac : Altostratus,–As : Stratocumulus,–Sc : Stratus,–St : Nimbostratus,–Ns : Cumulus,–Cu : Cumulonimbus,–Cb.

COLUMN 29.—STATE OF GROUND.

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

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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 June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light or moderate south to southeast wind; fair or fine; rather warm inland but cool on coast.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate south wind; mainly cloudy but some bright intervals; occasional slight local rain or drizzle; local coast fog in southwest; rather warm and close.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1 - 3.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Moderate or fresh south wind; mainly cloudy; occasional slight rain or drizzle; becoming rather warm.
15 N. E. Scotland 16 Orkneys and Shetlands	Fresh south wind; fair; average temperature or rather warm.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh south wind strong on coasts; mainly cloudy with occasional slight rain or drizzle at first; more general rain to-morrow; local coast fog in south; rather warm and close.

GENERAL INFERENCE.

An anticyclone covering the North Sea is increasing in intensity and an associated ridge of high pressure extending to Spain continues to give way. An intense depression off Southwest Iceland and another depression some 600 miles west of Ireland are moving northeast. Weather will be fair or fine and warm in the Southeast. In the West and Northwest it will be mainly cloudy with slight local rain at first and rather more general rain later.

FURTHER OUTLOOK.

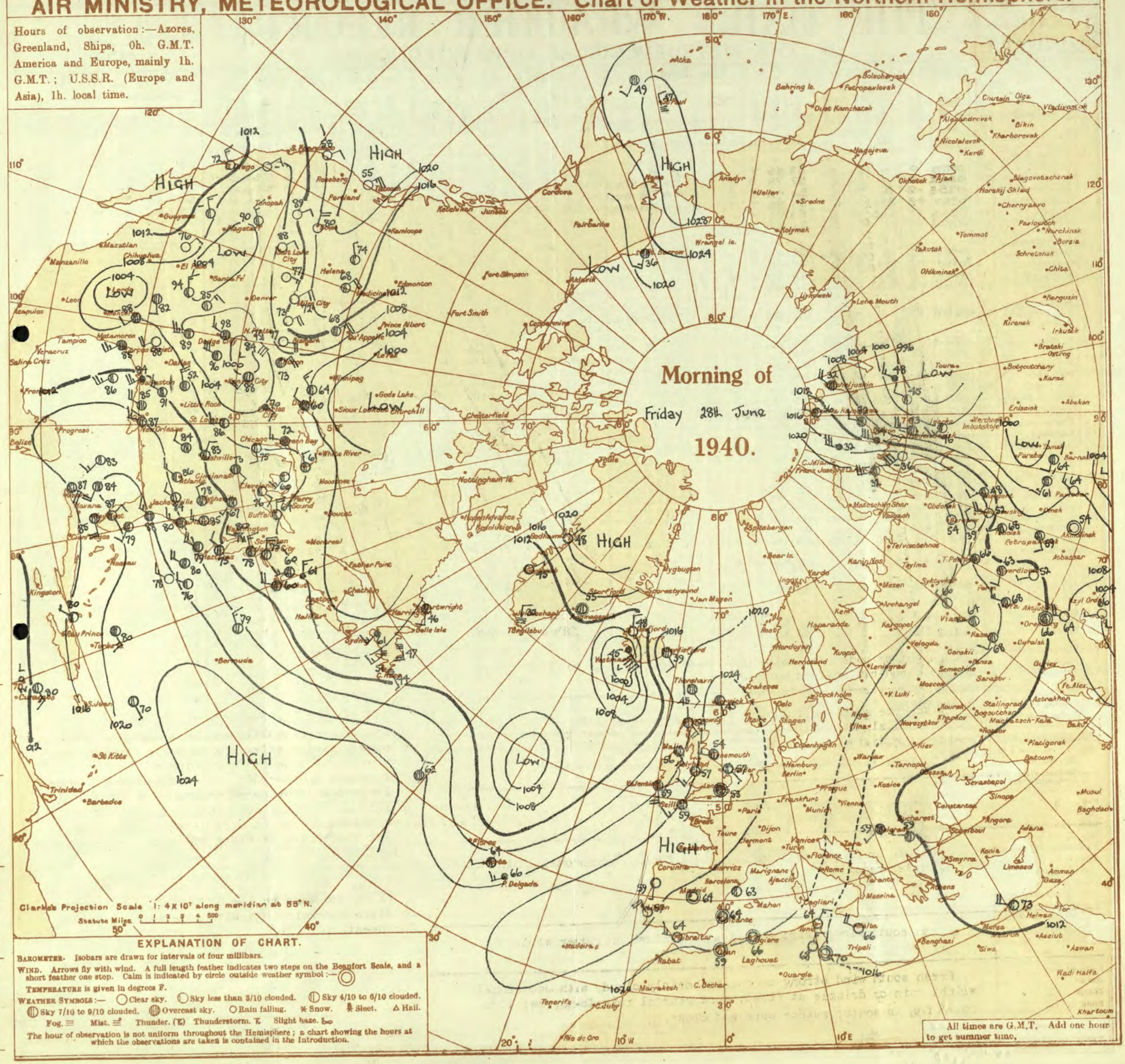
Fine and warm in the Southeast, but thundery conditions developing, with some rain in the Northwest.

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

Friday 28th June 1940.

No. 28708

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025·9	0	–	0	c	53	85	7	-	3	-	0	9	–
	S. Farnborough	226	1026·2	0	–	0	c	57	75	8	5	-	-	9+	9+	5700
	Boscombe Down	417	1025·8	-2	S	2	c	54	92	7	5	-	6	4·6	7·8	4000
	Calshot (Sthmtn.)	8	1025·7	+2	SSW	1	c	50	85	7	7	7	5	4·6	7·8	4000
	Lympne ...	346	1026·3	+6	NNW	2	b	53	75	7	-	-	-	0	0	–
	Manston ...	154	1026·3	+4	W	1	2o	52	85	6	-	4	-	0	1	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1026·0	+6	–	0	2o	58	85	5	–	–	-	0	0	–
	Gorleston ...	5	1026·1	+6	SSE	3	b	58	85	7	-	-	-	0	0	–
	Mildenhall ...	19	1025·9	+10	SW	2	b	49	85	6	5	-	-	Tr	Tr	4000
	Cranwell ...	240	1025·5	+2	SW'W	2	2o	52	85	6	-	-	1	0	Tr	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1025·5	+2	–	0	c	56	85	7	5	-	·	9+	9+	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1024·4	-2	SW	3	c	58	92	8	5	-	-	9+	9+	2500
	Bristol ...	209	1025·6	-2	S	1	c	56	92	7	5	–	-	7·8	7·8	4000
	Portland Bill ...	32	1026·8	+10	W	3	c	56	85	8	5	4	-	4·6	7·8	4000
	Plymouth ...	82	1025·5	-2	SW	2	c	59	97	7	5	-	-	9+	9+	1500
	The Lizard ...	240	1025·2	0	SW	1	c	58	97	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	163	1024·3	-6	SSW	3	c	59	92	8	5	2	·	7·8	9+	2500
	Guernsey ...	175	1026·2	-4	SW	1	c	56	97	8	-	7	8	0	7·8	–
6	Pembroke ...	142	1023·4	0	SW'S	3	c	57	97	8	8	2	-	4·6	9+	800
7	Holyhead ...	26	1022·9	-2	S'W	3	c/r	57	97	8	5	–	-	9+	9+	2500
	Chester (Sealand)	16	1024·5	-2	SE	2	2o	54	75	6	5	–	-	7·8	7·8	4000
8	Manchester ...	70	1024·8	+2	ESE	1	2o	49	85	5	5	3	-	1	4·6	4000
10	Spurn Head ...	29	1025·5	+4	SE	2	bc	57	85	6	5	-	-	2·3	2·3	1500
	Catterick ...	175	1025·6	+10	–	0	bc	46	85	7	5	4	4	2·3	4·6	4000
	Tynemouth ...	108	1024·7	+6	W	3	bc	54	85	6	2	3	-	2·3	4·6	2500
11	St. Abbs Head	280	1024·1	+10	SW	3	bc	50	75	8	4	5	-	2·3	4·6	2500
	Leuchars ...	36	1023·7	+10	–	0	c	51	85	7	5	7	-	2·3	4·6	4000
12	Renfrew (Abbots I.)	19	1013·1	-4	ESE	2	2o	53	75	6	5	7	-	7·8	10	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1023·3	+4	S	3	c	55	92	8	5	4	-	4·6	9	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1019·9	-8	SE	4	c	54	75	7	5	7	-	4·6	9+	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1022·4	-4	SE	5	bc	51	85	8	5	4	6	2·3	2·3	1500
16	Lerwick ...	156	1025·4	+16	S	2	bc	45	85	8	5	-	-	2·3	2·3	2500
17	Blacksod Point	18	1015·0	-16	S	6	cq	60	85	7	9	-	-	10	10	800
18	Malin Head ...	84	1017·5	-8	SSE	4	c	56	85	7	8	-	-	7·8	7·8	4000
	Aldergrove ...	268	1020·2	-6	SE'E	3	o/d	55	87	7	5	-	-	10	10	5700
19	Birr Castle ...	173	1019·9	0	SSW	2	c	58	85	8	8	1	-	7·8	9+	1500
20	Valentia Obsy.	30	1017·9	-14	S	5	c	59	85	8	5	-	-	9+	9+	1500
	Roches Point	22	1020·8	-6	S	4	c	60	92	8	5	-	-	9+	9+	1500

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

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)	1026·8	+4	S	1	2o	50	75	6	5	-	-	9+	9+	2500	0	*
	Croydon ...	1026·8	+6	SSE	1	c	50	85	7	5	-	-	10	10	5700	0	*
	S. Farnborough	1026·9	+8	S'W	2	c	50	85	8	5	-	-	9+	9+	5700	0	*
	Boscombe Down	1026·6	+8	SW'W	2	c	56	85	8	5	-	-	9+	9+	1500	0	*
	Calshot (Sthmtn.)	1026·6	+6	S	2	c	57	92	8	5	-	-	9+	9+	1500	0	1
	Lympne ...	1027·1	+6	–	0	bc	60	65	7	-	5	9	0	4·6	-	0	§
	Manston ...	1027·2	+8	S	1	2o	50	75	6	-	3	-	0	2·3	–	0	*
2	Shoeburyness ...	1027·3	+12	–	0	c	50	75	7	5	-	-	7·8	7·8	5700	0	*
	Felixstowe ...	1026·9	+6	S	2	2o	60	92	6	5	3	-	1	2·3	800	0	0
	Gorleston ...	1027·3	+10	SE'S	4	b	59	85	7	-	5	-	0	Tr	–	0	2
	Mildenhall ...	1027·3	+14	SW	1	2o	56	85	6	5	-	-	9	9	5700	0	*
	Cranwell ...	1026·4	+8	SE	1	2o	58	85	6	5	-	-	7·8	7·8	2500	0	*
3	Birmingham ...	1025·7	+2	S	2	c	50	85	7	5	-	-	9	9	5700	0	*
	Upper Heyford	1026·4	+8	S'W	1	2o	58	85	6	5	-	-	9+	9+	4000	0	*
4	Ross-on-Wye	1025·3	0	SSW	2	bc	60	85	7	7	-	-	2·3	2·3	2500	0	*
5	Hartland Point	1024·3	+2	SSE	3	c	50	85	9	5	-	-	9+	9+	2500	0	2
	Bristol ...	1026·5	+10	S	2	bc	60	85	8	5	4	-	4·6	4·6	2500	0	*
	Portland Bill ...	1026·6	+6	S	2	f	55	92	3	5	-	·	10	10	4150	1	3
	Plymouth ...	1025·3	+2	S	3	c	60	75	8	5	-	-	9+	9+	2500	0	2
	The Lizard ...	1024·8	+4	S	4	c	59	85	8	8	2	-	9	10	1500	0	2
	Scilly (St. Mary's)	1023·3	0	S'W	4	c	59	85	8	8	7	-	7·8	9+	1500	0	1
	Guernsey ...	1026·3	+4	S'E	1	bc	61	85	9	8	7	-	2·3	2·3	2500	0	3
6	Pembroke ...	1023·5	0	S	4	c	58	85	8	5	-	-	9+	9+	800	1	2
7	Holyhead ...	1022·9	+4	SW	4	c	58	92	9	8	-	-	10	10	2500	1	2
	Chester (Sealand)	1024·6	+6	SE'E	2	2o	58	85	6	8	3	-	7·8	9	4000	1	*
8	Manchester ...	1025·0	+6	SE'S	2	2o	59	75	6	5	3	-	7·8	9	4000	0	*
10	Spurn Head ...	1026·3	+10	SE	3	bc	59	85	6	-	4	6	0	2·3	-	0	2
	Catterick ...	1025·7	+2	S'E	2	2o	55	75	6	5	7	4	2·3	7·8	5700	0	*
	Tynemouth ...	1025·1	+2	S	2	c	54	75	6	8	-	-	9+	9+	2500	0	1
11	St. Abbs Head	1023·8	+2	SSE	2	c	56	65	7	5	6	4	2·3	9	2500	0	1
	Leuchars ...	1023·7	0	ESE	2	c	55	75	8	-	7	6	0	7·8	-	0	*
12	Renfrew (Abbots I.)	1022·8	+2	NE'E	2	2o	55	75	6	5	7	-	9	9	2500	0	*
	Eskdalemuir ...	1024·2	+4	–	0	c	50	75	8	5	-	-	10	10	2500	1	*
	Point of Ayre ...	1022·8	+2	S'W	3	c	58	92	8	5	7	-	4·6	9+	1500	0	2
13A	Tiree ...	1016·8	-4	SSE	5	c	56	92	7	5	3	-	7·8	9+	2500	0	4
13B	Stornoway ...	1018·6	-6	SSE	5	c	55	85	8	5	7	-	7·8	9+	4000	1	3
15	Dalwhirnie ...	1022·5	-2	SE	6	c	51	65	8	5	7	-	4·6	9+	4000	0	*
	Aberdeen ...	1024·7	+10	S'W	3	c	55	85	7	5	7	6	Tr	7·8	1500	0	1
	Wick ...	1021·8	+2	SSE	4	c	53	92	7	5	7	8	4·6	9+	2500	1	2
16	Lerwick ...	1025·6	-2	SSE	4	bc	52	85	8	5	-	·		4·6	2500	0	*
17	Blacksod Point	1012·2	-8	S	6	cq	61	65	8	-	6	-	0	9+	-	0	2
18	Malin Head ...	1016·5	-6	SE	5	c	59	75	8	4	7	1	2·3	7·8	5700	0	2
	Aldergrove ...	1019·6	+2	SE'S	4	c	58	75	8	5	-	-	9+	9+	2500	1	*
19	Birr Castle ...	1018·3	-4	SSW	2	c	60	85	8	5	1	-	7·8	9+	2500	0	*
20	Valentia Obsy.	1015·6	-6	S	6	c	61	85	8	5	-	-	9+	9+	1500	0	3
	Roches Point	1018·9	-4	SW	5	1r	60	85	8	6	2	-	7·8	9+	1500	0	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 27th Hrs. (36)
1	London (Kew)	68	53	44	–	–	7·8
	Croydon ...	68	52	43	–	–	8·1
	S. Farnborough	65	56	53	–	–	10·6
	Boscombe Down	64	53	50	–	–	3·8
	Calshot (Sthmtn.)	67	56	56	–	–	5·7
	Lympne ...	64	50	46	–	–	8·1
	Manston ...	66	49	37	–	–	9·8
2	Shoeburyness ...	60	47	39	–	–	9·0
	Felixstowe ...	69	50	48	–	–	9·7
	Gorleston ...	62	56	55	–	–	12·1
	Mildenhall ...		44	37	–	Tr	11·0
	Cranwell ...	68	49	45	–	–	11·5
3	Birmingham ...	66	55	50	*	–	7·5
	Upper Heyford	65	54	50	–	–	*
4	Ross-on-Wye	63	53	47	–	–	2·0
5	Hartland Point	61	57	56	–	–	1·4
	Bristol ...	63	54	47	Tr	–	3·0
	Portland Bill ...	60	53	*	–	Tr	*
	Plymouth ...	63	58	57	–	–	1·4
	The Lizard ...	65	57	*	–	–	5·1
	Scilly (St. Mary's)	65	57	*	–	–	6·0
	Guernsey ...	67	55	50	–	–	7·2
6	Pembroke ...	61	56	*	Tr	0·3	0·5
7	Holyhead ...	66	55	57	–	0·1	4·9
	Chester (Sealand)	63	53	48	–	–	9·9
8	Manchester ...	66	48	40	0·2	–	12·2
10	Spurn Head ...		55	*	–	–	13·2
	Catterick ...	65	45	37	–	–	12·7
	Tynemouth ...	62	48	48	0·1	–	*
11	St. Abbs Head		47	*	–	–	*
	Leuchars ...	66	45	39	–	–	10·2
12	Renfrew (Abbots I.)	64	51	44	–	–	6·7
	Eskdalemuir ...	61			0·2	–	7·6
	Point of Ayre ...	64	53	*	–	Tr	10·5
13A	Tiree ...	59	54	*	–	–	9·0
13B	Stornoway ...	56	52	*	2	Tr	4·9
15	Dalwhirnie ...	59	44	36	0·1	–	10·3
	Aberdeen ...	58	50	43	1	–	11·7
	Wick ...	55	50	*	0·4	–	*
16	Lerwick ...	53	43	*	3	–	7·1
17	Blacksod Point	62	57	*	–	Tr	*
18	Malin Head ...	60	53	*	Tr	–	5·8
	Aldergrove ...	63	54	54	–	1	5·6
19	Birr Castle ...	66	57	56	0·1	–	0·4
20	Valentia Obsy.	67	59	57	0·1	–	1·3
	Roches Point	65	59	*	Tr	0·6	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	bcwcy	cbccy	cbcycz	68	53	44	–	–	7·8	•	•	8
Croydon ...	217	bc⊕cy	cybcyv	bcyvbcw	68	52	43	–	–	8·1	•	•	8
Greenwich (Royal Observatory) ...	149	cy	cy	cbc	70	49	37	–	–	6·2	38	62	7
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park) ...	27	•	•	•	69	53	47				45	67	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	70	54	50	–	–		45	67	•
Camden Square ...	110	bc	bc	•	71	54	46	–	–	•	•	66	•
Kensington ...	80	bc	bv	•	70	53	45	–	–		35	66	•
Hampstead Observatory ...	450	bc	bc	o	69	53	44	–	–		•	77	•

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 27th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 28th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...														
Brussels ...														
Berlin ...														
Zürich ...														
Rome ...														

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 28th

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
<0·1	whole period		

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Preciptious.
4 Rough.	9 Confused.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

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METEOROLOGICAL OFFICE, AIR MINISTRY, KINGSWAY, LONDON W.C.2

N. K. JOHNSON, D.Sc., A.R.C.S., Director.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

BRITISH SECTION

Saturday 29th June 1940.

No. 28709

OBSERVATIONS at 13h. G.M.T. 28th June

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1026·2	-6	SSW	2	c	71	55	8	8	-	-	9	9	2500
	Croydon	1026·3	-6	S	2	c	69	55	8	2	6	-	7-8	7-8	4000
	S. Farnborough	1026·1	-6	SE'E	3	c	68	55	8	8	4	-	7-8	7-8	4000
	Boscombe Down	1025·6	-8	S'W	3	bc	69	55	8	1	-	-	4-6	4-6	4000
	Calshot (Soton.)	1026·5	-2	SSE	2	bc	70	65	8	1	-	-	4-6	4-6	4000
	Lympne	1027·2	-2	S	2	bc	68	65	9	2	-	-	2-3	2-3	4000
	Manston	1027·4	0	SSE	3	c	65	65	7	5	-	-	7-8	7-8	4000
2	Shoeburyness	1027·1	-10	ESE	3	bc	68	65	6	2	3	-	4-6	4-6	4000
	Felixstowe	1027·6	0	SE	4	bc	66	75	7	4	5	-	1	4-6	4000
	Gorleston	1027·9	-4	SSE	4	bc	62	75	7	-	4	-	0	2-3	-
	Mildenhall	1026·2	-6	S	3	c	71	45	8	7	7	-	7-8	9	4000
	Cranwell	1025·8	-10	SSE	3	c	69	45	7	7	7	·	7-8	9+	2500
3	Birmingham	1024·8	-4	SSW	3	c	68	55	8	8	7	-	7-8	9	4000
	Upper Heyford	1025·7	-4	SW'S	2	c	70	55	8	7	3	-	4-6	9	2500
	Ross-on-Wye	1024·6	-4	SW	3	c	68	65	8	7	·	-	7-8	7-8	4000
5	Hartland Point	1024·0	-2	SW	3	c	62	75	9	5	-	-	9+	9+	2500
	Bristol	1025·8	-10	SSW	3	c	66	65	9	7	-	-	9+	9+	4000
	Portland Bill	1026·3	-10	SSE	2	c	60	85	8	5	4	-	4-6	7-8	4000
	Plymouth	1025·5	-2	S	4	bc	63	75	8	8	-	-	4-6	4-6	2500
	The Lizard	1024·8	0	S'E	2	bc	64	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1022·9	-4	SSE	4	c/d	62	85	8	8	2	-	9	10	1500
	Guernsey	1025·7	-2	SE'S	1	b	69	65	9	-	-	·	0	0	·
6	Pembroke	1023·5	-4	S	4	c	60	85	8	5	-	·	9+	9+	1500
7	Holyhead	1022·4	-4	S	4	c	62	75	9	5	-	-	9+	9+	4000
	Chester (Sealand)	1023·9	-6	S'E	3	c	69	55	7	7	-	-	9	9	4000
8	Manchester	1024·6	-6	SSW	3	c	68	55	8	8	3	-	4-6	7-8	4000
10	Spurn Head	1026·0	-2	ESE	5	c	59	85	6	4	-	-	9	9	2500
	Catterick	1024·1	-12	SSE	3	zo	68	55	6	5	2	-	4-6	9+	4000
	Tynemouth	1024·7	-4	SSE	4	c	56	92	6	5	-	-	9+	9+	2500
11	St. Abbs Head	1022·8	-8	SE	5	c	57	85	7	5	2	-	7-8	10	2500
	Leuchars	1022·6	-6	SSE	3	c	64	75	7	7	3	-	4-6	9+	2500
12	Renfrew (Abbots I.)	1021·4	-8	S'E	4	c	64	55	9	5	·	-	10	10	2500
	Eskdalemuir	1022·7	-4	SSW	5	c	61	65	8	5	-	-	10	10	4000
	Point of Ayre	1022·5	-4	S	4	c	65	75	8	8	7	-	2-3	9+	1500
13A	Tiree	1015·6	+2	SSE	5	c	61	75	8	5	3	-	7-8	9	4000
13B	Stornoway	1016·7	-14	SSE	6	c	59	75	7	5	7	-	4-6	9+	2500
15	Dalwhinnie	1021·0	-10	S	6	c	59	65	8	4	2	-	4-6	10	450
	Aberdeen	1023·3	-10	S	4	bc	61	75	7	5	3	-	2-3	4-6	1500
	Wick	1021·1	-12	SE	6	c	56	85	7	5	8	-	4-6	9	2500
16	Lerwick	1025·7	-4	SSE	6	c	55	85	8	5	3	9	4-6	9	1500
17	Blacksod Point	1010·5	-8	S'E	7	pr	62	85	7	6	-	-	10	10	800
18	Malin Head	1014·9	-12	S'E	5	c	66	65	8	8	-	-	7-8	7-8	5700
	Aldergrove	1018·4	-6	S'E	5	c	63	75	9	5	-	-	9+	9+	2500
19	Birr Castle	1017·0	-6	SSW	3	c	66	65	8	8	1	-	7-8	9+	1500
20	Valentia Obsy. †	1014·1	-10	S'E	7	c	63	85	8	5	-	·	10	10	2500
	Roches Point	1018·5	-4	S	5	c	62	85	8	5	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 28th June

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	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)	1025·5	-2	SWS	3	c	70	45	8	7	-	-	7-8	7-8	2500	0	*
Croydon	1025·4	-6	S'W	2	bc	69	45	8	4	6	1	2-3	2-3	4000	0	*
S. Farnborough	1025·3	-6	S'W	3	b	69	45	9	7	-	-	Tr	Tr	4000	0	*
Boscombe Down	1024·6	-8	S'E	3	bc	67	55	8	1	-	-	2-3	2-3	4000	0	*
Calshot (Soton.)	1025·5	-6	ESE	4	b	63	85	8	1	-	-	Tr	Tr	5700	0	3
Lympne	1026·9	-2	SE	1	bc	63	55	9	5	-	-	2-3	2-3	5700	0	§2
Manston	1026·9	-2	SE	2	c	64	65	7	-	5	-	0	7-8	—	0	*
Shoeburyness	1026·6	+2	SSE	3	o	66	65	8	5	-	-	10	10	4000	0	*
Felixstowe	1026·6	-2	SE'S	4	c	64	75	7	5	5	-	2-3	7-8	5700	0	2
Gorleston	1027·2	-4	SE	4	bc	61	75	7	-	5	-	0	4-6	—	0	3
Mildenhall	1025·3	-2	SSE	4	c	68	45	7	5	3	-	2-3	7-8	5700	0	*
Cranwell	1024·6	-6	SSE	3	c	69	55	7	5	-	-	9+	9+	5700	0	*
Birmingham	1023·4	-6	SW	3	bc	69	45	8	1	7	-	1	2-3	4000	0	*
Upper Heyford	1024·3	-4	S'E	2	bc	68	55	8	4	-	-	4-6	4-6	4000	0	*
Ross-on-Wye	1023·6	-6	SW'S	3	bc	65	65	8	7	-	-	2-3	2-3	4000	0	*
Hartland Point	1022·0	-14	SSE	4	bc	66	75	8	1	-	4	Tr	2-3	4000	0	2
Bristol	1024·5	-4	S	2	bc	66	65	9	4	4	-	4-6	4-6	4000	0	*
Portland Bill	1024·4	-12	E	2	bc	59	85	8	5	-	-	2-3	2-3	4000	1	3
Plymouth	1023·6	-14	SSE	3	b	64	65	8	1	4	4	Tr	1	4000	0	2
The Lizard	1023·2	-14	SSE	2	bc	62	85	8	4	4	-	2-3	4-6	2500	0	2
Scilly (St. Mary's)	1021·3	-16	SSE	5	bc	62	85	8	8	4	-	2-3	4-6	2500	0	2
Guernsey	1023·3	-8	E	1	b	63	75	9	-	-	-	0	0	—	0	2
Pembroke	1021·7	-10	S'W	4	bc	60	85	8	5	4	4	1	4-6	2500	1	3
Holyhead	1021·0	-10	S	4	c	60	85	9	5	-	-	9+	9+	4000	0	2
Chester (Sealand)	1022·3	-8	S	2	bc	68	55	8	7	-	1	4-6	4-6	4000	0	*
Manchester	1023·0	-8	S	4	c	70	55	8	5	-	-	2-3	7-8	4000	0	*
Spurn Head	1024·4	-6	ESE	5	c	61	85	6	7	-	-	9	9	4000	0	4
Catterick	1022·8	-4	SSE	2	c	68	55	7	5	-	-	10	10	4000	0	*
Tynemouth	1023·1	-10	SSE	5	c	58	85	6	8	-	-	9+	9+	2500	0	3
St. Abbs Head	1021·8	0	SSE	5	c	57	85	7	5	6	-	7-8	9+	2500	0	3
Leuchars	1021·3	-8	SE	3	c	66	75	7	5	3	-	4-6	9+	2500	0	*
Renfrew (Abbots I.)	1020·5	-4	SSE	4	c	62	65	8	5	3	1	9	9+	2500	0	*
Eskdalemuir	1021·2	-8	SW'S	4	c	62	65	7	5	-	-	7-8	7-8	4000	0	*
Point of Ayre	1021·3	-6	SSW	4	c	63	75	8	8	-	9	9	9+	1500	0	2
Tiree	1013·5	-10	SSE	6	c	58	85	7	5	-	-	9+	9+	2500	0	5
Stornoway	1014·4	-14	SE	6	s/pr	58	85	9	5	7	-	4-6	9+	2500	1	3
Dalwhinnie	1020·0	-20	S	6	c	59	65	8	5	-	-	10	10	4000	0	*
Aberdeen	1022·3	-10	S'E	4	c	57	85	6	5	3	-	9	9+	1500	0	3
Wick	1019·3	-10	SE	6	c	55	85	6	5	7	2	4-6	9	1500	1	3
Lerwick	1024·4	-8	SSE	6	c	55	85	7	5	-	8	4-6	9	1500	0	*
Blacksod Point	1008·2	-12	S'E	7	pr	59	97	7	6	-	-	10	10	800	1	4
Malin Head	1011·2	-20	S'E	6	c	66	75	8	6	-	-	7-8	7-8	5700	0	4
Aldergrove	1016·4	-10	SSE	4	c	61	85	8	5	3	-	4-6	9	2500	0	*
Birr Castle	1014·7	-16	SSW	4	c	64	65	8	8	1	-	7-8	9+	1500	0	*
Valentia Obsy. †	1012·0	-16	S'E	6	RR	58	97	5	6	-	-	10	10	1500	1	4
Roches Point	1016·3	-18	S	5	c	61	92	8	5	-	-	9	9	1500	0	4

PAST 24 HOURS.

Stations	Weather 7h.–18h. 28th (37)	Weather 13h.–18h. 28th (38)	Weather 18h. 28th to 1h. 29th (39)	Weather 1h.–7h. 29th (40)
London (Kew)	czocy	cbcy	bcbyb	bwbccy
Croydon	cy	cybcy	bybw	wbbbc
S. Farnborough	bccy	cbcyv	byb	bcc
Boscombe Down	bc	bcy	b	bcc
Calshot (Soton.)	cbbc	bcb	b	bbc
Lympne	bc bcy	bcy	bcyb	bbc
Manston	bmobczo	bccbczo	bcbzo	bzobc
Shoeburyness	bcmzy	bczoyc	cb	b
Felixstowe	bmobc	bc	cb	bbcv
Gorleston	bbc	bc	bcq	bccbcq
Mildenhall	cmowcy	cybcy	cbcb	bwbccy
Cranwell	cmocy	cy	cy, bbmo	bcmo
Birmingham	c	cbc	bcb	bbc
Upper Heyford	ccy	cocy	b	bcc
Ross-on-Wye	bcc	bcc bc	bbcc	cbcc
Hartland Point	cidoc	cbc	bc	bcc
Bristol	bcc	cbc	bcb	bcc
Portland Bill	c	bc	bcc	c
Plymouth	cbc	bcb	BBC	bcc
The Lizard	cbc	bc	bc	bccpr
Scilly (St. Mary's)	cido	cbc	cbcw	coddim
Guernsey	bcb	b	b	bbcc
Pembroke	c	cbc	bc	cprrr
Holyhead	c	c	c	croc
Chester (Sealand)	bccmoy	cbcy	cbcmo	bcmoc
Manchester	czoc	cy	cybcbcko	bcc
Spurn Head	c	c	oc	bc
Catterick	czoy	czoycy	cyzobcbmo	bbcmozb
Tynemouth	c	c	cbc	bcc
St. Abbs Head	cmo	cmo	cm	cmo
Leuchars	bcc	c	cbc	bcmobcc
Renfrew (Abbots I.)	cmoc	cyc	c	cbcc
Eskdalemuir	cwc	cbc	bcc	bcc
Point of Ayre	c	c	c	c
Tiree	c	c		bRR
Stornoway	c	cpro	cpro	cpr
Dalwhinnie	c	c		c
Aberdeen	bccbc	bcczo		bczo
Wick	c	czo	czo	cmo bc
Lerwick	bcc	c	c	c
Blacksod Point	pro cq	procq	c	bcc
Malin Head	c	c	ccproc	rbc
Aldergrove	ciroc	c	c	cirorrmo
Birr Castle	c	c	cPR	cbc
Valentia Obsy. †	c	roroq	RRdorrc	cbprobc
Roches Point	c	c	irrr	bcb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀ — k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
Solar halo. lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

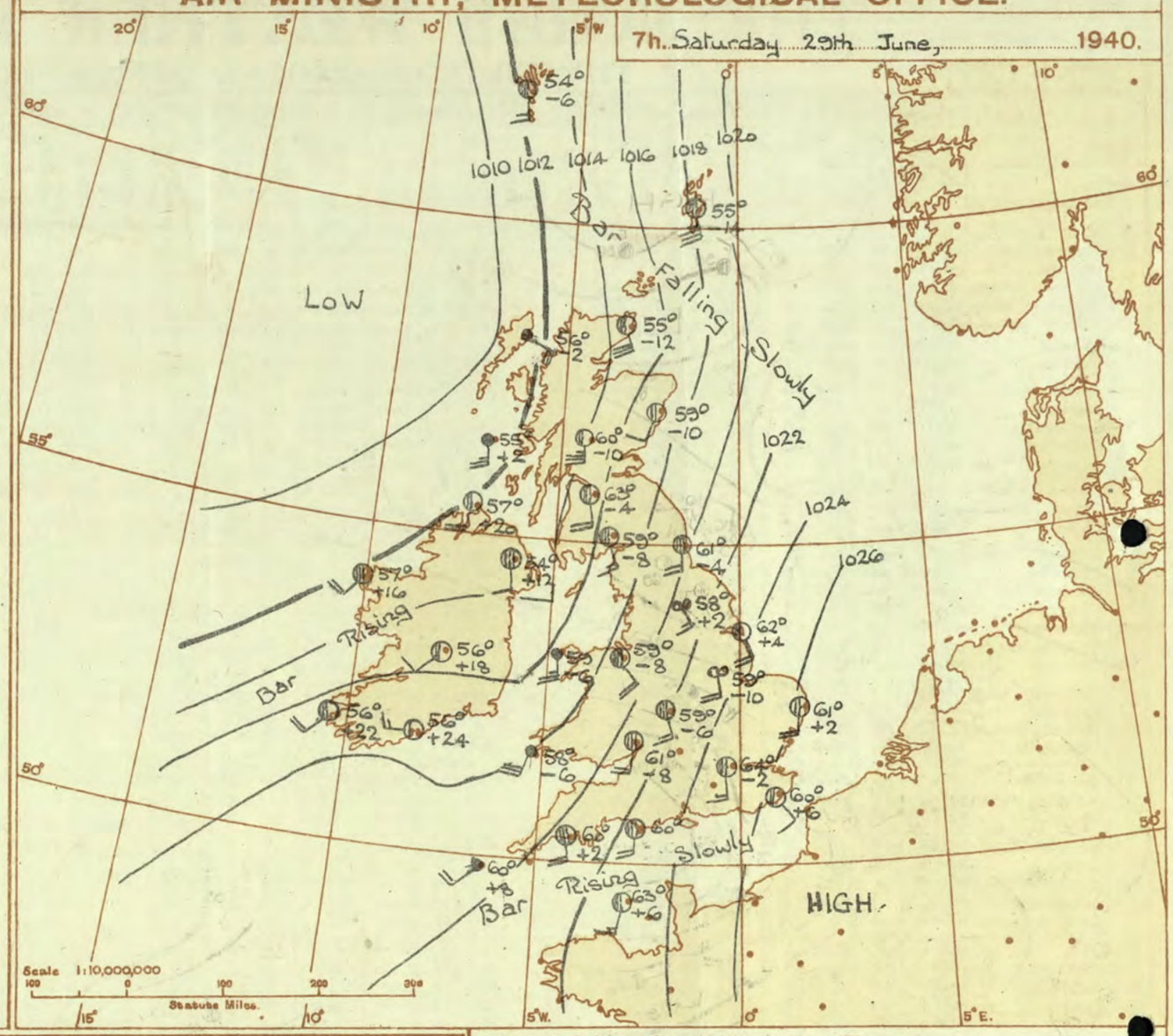
COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. ,, covered with thawing snow.
7 .. Ground covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.
– .. Fresh snow has fallen in the mountains.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 29th June, 1940.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 29th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate south wind; fair or fine; warm.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Moderate or fresh southerly wind, strong locally on coast, veering southwest and decreasing; cloudy, occasional rain at first; bright periods and local showers later; average temperature.
10 N.E. England 11 S.E. Scotland	Moderate south to southwest wind; mainly cloudy, occasional rain; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland	Fresh or strong south wind, veering southwest and moderating; cloudy, some rain at first, bright periods and showers later; average temperature.
15 N. E. Scotland 16 Orkneys and Shetlands 17 N. W. Ireland	Wind south, strong to gale, veering southwest and decreasing; cloudy with some rain today, bright periods and occasional showers later; average temperature.
18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate southwest to west wind; bright periods, occasional showers, average temperature.

GENERAL INFERENCE.

A belt of high pressure extends from Scandinavia to Madeira. A vigorous depression is centred off Southwest Iceland and an associated trough of low pressure extending over the Hebrides and Irish Sea is moving east but the trough will make little progress in the South. Weather will be fair and warm in the Southeast. In the West and in Scotland it will be cloudy with occasional rain at first but bright intervals and occasional showers are probable later.

FURTHER OUTLOOK.

Thundery conditions in the Southwest, spreading slowly eastwards.

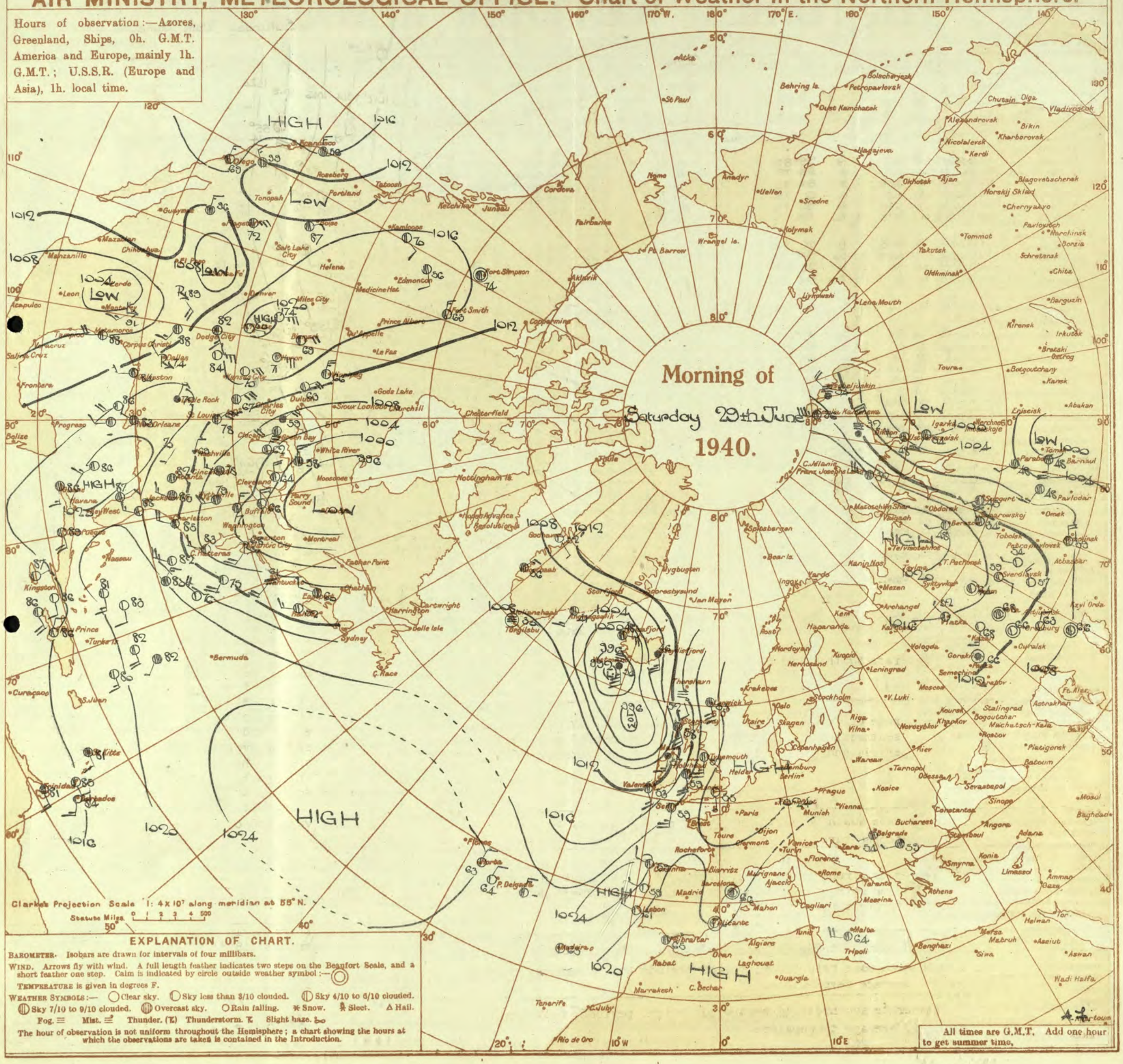
Warning of southerly gale issued at 1815 G.M.T. 28/6 for districts 13B(part) 15, 16.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON. D.Sc., A.R.C.S.
Director.

H.M.S.O. Press, Cornwall House, S.E.1.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 29th June 1940.

No 28709

OBSERVATIONS at 1 hr. G.M.T. 29th June

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025·1	-6	SSE	1	b	55	85	8	-	-	-	0	0	-
	S. Farnborough	226	1024·8	-10	SE'E	2	b	53	75	8	-	-	1	0	Tr	-
	Boscombe Down	417	1024·2	-6	SE'E	3	b	52	92	7	-	7	-	0	1	-
	Calshot (Sthmtn.)	8	1024·1	-8	SE	4	b	61	75	8	-	3	-	0	Tr	-
	Lympne ...	346	1026·0	-10	ESE	2	b	56	75	7	-	3	-	0	Tr	-
	Manston ...	154	1026·3	+14	SE'S	3	Zo	58	75	6	-	7	-	0	2·3	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1026·1	-6	SE'S	4	b	61	75	7	-	-	5	0	Tr	-
	Gorleston ...	5	1026·2	-10	SE'S	4	bc	59	75	7	-	3	-	0	4·6	-
	Mildenhall ...	19	1025·3	-4	SE	2	b	53	85	7	5	-	-	1	1	4000
	Cranwell ...	240	1024·8	0	S	3	Zo	54	92	6	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1024·8	-2	-	0	b	54	75	7	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1020·2	-14	SE	2	bc	57	85	8	5	-	1	2·3	4·6	2500
	Bristol ...	209	1023·4	-6	S	2	bc	55	75	8	5	-	-	2·3	2·3	5700
	Portland Bill ...	32	1021·6	-8	SE	4	c	57	92	8	4	4	-	4·6	7·8	4000
	Plymouth ...	82	1021·6	-12	SE	3	bc	60	75	8	-	3	1	0	4·6	-
	The Lizard ...	240	1021·1	-16	SE	4	bc	58	97	8	8	6	-	4·6	4·6	2500
	Scilly (St. Mary's)	163	1019·2	-14	S	5	bc	59	97	7	5	4	-	2·3	4·6	1500
	Guernsey ...	175	1022·5	-6	SSE	2	b	61	85	8	-	-	-	0	0	-
6	Pembroke ...	142	1018·0	-14	S'E	5	bc	57	85	8	5	4	-	1	2·3	2500
7	Holyhead ...	26	1018·1	-18	S'E	4	c	55	85	8	5	-	-	9	9	4000
	Chester (Sealand)	16	1021·2	-6	SE	3	Zo	57	86	6	-	7	-	0	4·6	-
8	Manchester ...	70	1021·9	-6	SE'S	3	Zo	58	85	6	5	3	-	Tr	4·6	4000
10	Spurn Head ...	29	1024·2	0	SE'S	4	c	50	75	6	5	-	-	7·8	7·8	1500
	Catterick ...	175	1022·0	-2	S	3	Zo	57	85	6	5	-	4	Tr	1	5700
	Tynemouth ...	108	1021·8	-8	S	5	bc	57	85	7	8	-	-	4·6	4·6	2500
11	St. Abbs Head	280	1018·8	-24	SSE	3	c	56	85	6	5	6	-	4·6	7·8	1500
	Leuchars ...	36	1019·3	-14	E	1	bc	57	92	7	5	7	-	4·6	4·6	4000
12	Renfrew (Abbotsl.)	19	1018·2	-14	ESE	3	c	60	75	8	5	2	-	9	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1019·3	-14	SW'S	4	c	60	75	8	4	7	-	2·3	9+	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1013·4	-8	SSE	6	c	58	85	7	5	7	-	7·8	9+	2500
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	10166	-14	SE	6	c	54	92	6	5	7	8	4·6	9+	1500
16	Lerwick ...	156	1022·4	-14	SSE	6	c	53	92	7	5	7	-	4·6	7·8	1500
17	Blacksod Point	18	1009·4	+26	S	2	c	54	92	7	5	-	-	9	9	800
18	Malin Head ...	84	1010·4	-12	S	3	pr	57	92	6	6	2	-	4·6	9+	1500
	Aldergrove ...	268	1013·7	-22	S'E	5	c	57	85	7	5	3	-	7·8	9+	1500
19	Birr Castle ...	173	1011·8	-12	SSW	4	PR	58	92	7	9	1	-	7·8	10	1500
20	Valentia Obsy.	30	1013·2	+4	SSE	3	c/r	53	97	7	5	-	-	7·8	7·8	1500
	Roches Point	22	1013·2	-14	S	6	rr	60	97	6	6	2	-	7·8	10	800

OBSERVATIONS at 7 hr. G.M.T. 29th June

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1024·5	0	S	3	c	64	55	7	-	3	6	0	9	-	0	*
Croydon ...	1024·3	-2	S'E	3	c	64	65	8	-	-	3	0	7·8	-	0	*
S. Farnborough	1024·1	+2	SE'S	3	c	61	65	8	-	8	6	0	9	-	0	*
Boscombe Down	1022·6	-4	S'E	4	c	62	75	8	-	4	7	0	9+	-	0	*
Calshot (Sthmtn.)	1023·6	+2	S'W	5	c	64	65	7	-	7	2	0	7·8	-	0	3
Lympne ...	1026·1	+6	SE	2	bc	60	65	8	-	-	4	0	4·6	-	0	*
Manston ...	1026·0	+2	SSE	3	c	62	65	7	-	3	4	0	7·8	-	0	*
Shoeburyness ...	1025·6	0	S	4	bc	64	55	8	-	-	4	0	4·6	-	0	*
Felixstowe ...	1026·0	+4	SW	4	c	63	65	8	-	7	-	0	7·8	-	0	2
Gorleston ...	1025·9	+2	S	4	bc	61	75	7	-	4	-	0	2·3	-	0	3
Mildenhall ...	1024·5	-4	S'E	4	c	63	55	7	-	-	6	0	7·8	-	0	*
Cranwell ...	1023·3	-10	S'E	4	Zo	59	75	6	-	-	6	0	9	-	0	*
Birmingham ...	1021·7	-6	SSE	3	c	59	75	8	-	7	-	0	7·8	-	0	*
Upper Heyford	1023·0	-6	SSE	4	c	61	75	7	-	3	6	0	9	-	0	*
Ross-on-Wye	1020·8	-8	S'W	4	c	61	75	8	-	4	8	0	9	-	0	*
Hartland Point	1019·2	+2	SSW	4	c	61	85	8	5	4	-	7·8	9+	2500	0	3
Bristol ...	1021·7	-2	SSE	3	c	62	65	8	5	7	6	1	9	5700	0	*
Portland Bill ...	1021·9	-10	S	4	c	60	85	8	1	4	-	4·6	10	4000	1	3
Plymouth ...	1021·2	+2	S	4	c	60	92	6	5	3	9	9	9+	1500	0	2
The Lizard ...	1020·5	+4	S	4	c/pr	59	97	7	8	2	-	9	10	1500	1	2
Scilly (St. Mary's)	1019·1	+8	SW	4	dd	60	97	5	5	-	-	10	10	450	1	2
Guernsey ...	1022·9	+6	S'W	3	c	63	75	7	-	7	6	0	7·8	-	0	2
Pembroke ...	1017·9	-6	SSW	6	rr	58	97	6	5	-	-	10	10	800	1	3
Holyhead ...	1016·2	-6	S	5	rr	59	85	8	6	2	-	7·8	10	1500	1	2
Chester (Sealand)	1019·1	-8	SE	4	c	59	65	8	-	7	4	0	9	-	0	*
Manchester ...	1020·1	-6	SSE	4	c	61	65	7	5	7	-	7·8	9+	1500	0	*
Spurn Head ...	1023·3	+4	SE'S	4	bc	62	75	7	-	-	4	0	4·6	-	0	4
Catterick ...	1020·9	+2	SE'S	3	Zo	58	75	6	-	7	-	0	9+	-	0	*
Tynemouth ...	1020·4	-4	S	4	c	61	65	6	2	3	1	2·3	7·8	2500	0	2
St. Abbs Head	1017·6	-2	SE	4	c	56	85	7	4	5	-	4·6	9	2500	0	3
Leuchars ...	1016·3	-6	SE	2	c	59	85	7	5	7	-	4·6	7·8	4000	0	*
Renfrew (Abbotsl.)	1016·1	-4	S'E	4	c	63	65	8	5	7	5	7·8	9+	2500	0	*
Eskdalemuir ...	1017·1	-8	SSE	3	c	59	75	8	5	7	2	4·6	7·8	2500	0	
Point of Ayre ...	1016·4	-12	SSW	5	c/p	60	75	8	5	7	9	2·3	9+	1500	0	3
Tiree	1010·6	+2	S	5	r/c	55	97	7	-	2	-	10	10	1500	1	4
Stornoway ...	1011·6	-2	S	6	pr	56	85	7	5	7	-	9	10	1500	1	3
Dalwhirnie ...	1014·4	-10	S	7	bc	60	65	8	4	6	1	2·3	4·6	4000	0	*
Aberdeen ...	1017·7	-10	SSW	2	bc	59	85	6	8	7	-	Tr	4·6	1500	0	3
Wick ...	1014·6	-12	SSE	6	bc	55	92	6	5	3	2	2·3	4·6	2500	0	3
Lerwick ...	1019·5	+14	SSE	7	c	55	85	8	5	7	-	7·8	9	1500	0	*
Blacksod Point	1011·7	+16	SW	4	c	57	75	7	-	7	-	0	7·8	-	0	3
Malin Head ...	1012·0	+20	S'W	4	bc/pr	57	92	8	9	-	-	2·3	2·3	4000	0	2
Aldergrove ...	1013·8	+12	S'E	2	c/r	54	92	8	5	7	-	4·6	9	4000	1	*
Birr Castle ...	1016·1	+18	SW	2	bc	56	85	8	-	3	4	0	2·3	-	1	*
Valentia Obsy.	1017·1	+22	SW	4	bc/pr	56	85	8	8	-	-	2·3	2·3	2500	1	3
Roches Point	1017·8	+24	W	3	b	56	85	8	2	-	-	1	1	2500	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 28th Hrs. (36)
London (Kew)	73	51	41	-	-	7·3
Croydon ...	74	54	45	-	-	6·3
S. Farnborough	73	52	45	-	-	8·0
Boscombe Down	70	51	47	-	-	12·3
Calshot (Sthmtn.)	70	66	60	-	-	11·7
Lympne ...	70	54	51	-	-	11·7
Manston ...	66	55	50	-	-	10·8
Shoeburyness ...	71	57	47	-	-	4·6
Felixstowe ...	68	59	56	-	-	12·7
Gorleston ...	63	57	56	-	-	13·8
Mildenhall ...	74	52	43	-	-	3·7
Cranwell ...	72	50	48	-	-	4·0
Birmingham ...	71	53	47	-	-	5·1
Upper Heyford	73	51	44	-	-	*
Ross-on-Wye	69	55	51	-	-	5·5
Hartland Point	67	55	50	Tr	-	6·0
Bristol ...	69	53	46	-	-	7·9
Portland Bill ...	60	55	*	-	-	*
Plymouth ...	64	56	53	-	-	0·1
The Lizard ...	65	57	*	-	Tr	9·6
Scilly (St. Mary's)	64	58	*	Tr	1	2·4
Guernsey ...	70	59	55	-	-	13·7
Pembroke ...	61	56	*	-	2	2·6
Holyhead ...	65	58	54	-	Tr	0·8
Chester (Sealand)	72	56	49	-	-	5·9
Manchester ...	72	56	53	-	-	3·6
Spurn Head ...	62	57	*	-	-	9·1
Catterick ...	71	53	50	-	-	1·5
Tynemouth ...	58	56	53	-	-	#
St. Abbs Head	63	54	*	-	-	*
Leuchars ...	68	50	44	-	-	0·9
Renfrew (Abbotsl.)	66	59	56	-	-	0·0
Eskdalemuir ...	64	51	46	-	-	1·5
Point of Ayre ...	68	56	*	-	-	0·8
Tiree	64	54	*		9	1·1
Stornoway ...	62	55	*	1	0·1	0·0
Dalwhirnie ...	62	55	54	-	-	1·9
Aberdeen ...	61	54	51	-	-	4·6
Wick ...	57	53	*	-	-	*
Lerwick ...	56	52	*	-	-	14·5
Blacksod Point	63	52	*	5	6	*
Malin Head ...	60	54	*	-	4	2·9
Aldergrove ...	63	52	52	Tr	8	1·7
Birr Castle ...	67	52	49	-	7	1·3
Valentia Obsy.	65	52	47	12	14	0·4
Roches Point	63	55	*	1	8	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Afternoon.	Night.	Temperature. Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall. Day. mm.	Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	9h. G.M.T. % (To-day.)	Visibility 9h.
Kew ...	18	czcy	cbcy	bcbybw	73	51	41	-	-	7·3	*	*	8
Croydon ...	217	cy	cybcy	bybwbc	74	69	45	-	-	6·3	*	*	8
Greenwich (Royal Observatory) ...	149	cy	cy	bcy	73	53	40	-	-	2·8	48	42	7
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	71	56	49	-			55	53	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	71	57	51	-	-		49	44	*
Camden Square ...	110	c	bc	*	73	55	47	-	-	*	49	47	*
Kensington ...	80	bc	bc	*	72	56	55	-	-		49	47	*
Hampstead Observatory ...	450	o	bc	bc	70	59	57	-	-		*		*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 29th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
<0·1	for the whole period		

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 28th June. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 29th June. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris ...										
Brussels ...										
Berlin ...										
Zürich ...										
Rome ...										

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Night mm.
*	*		

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 — Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Preciptious.
4	Rough.	9	Confused.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

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METEOROLOGICAL OFFICE, AIR MINISTRY, KINGSWAY, LONDON W.C.2

N. K. JOHNSON, D.Sc., A.R.C.S., Director.

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION SECRET

Sunday 30th June 1940.

No. 28710

OBSERVATIONS at 13h. G.M.T. 29th June

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1023·2	-10	SSW	4	bc	71	45	8	-	-	6	0	2-3	-
	Croydon ...	1023·6	-14	S	4	bc	74	45	8	-	4	4	0	4-6	-
	S. Farnborough	1022·9	-10	SSW	4	bc	74	35	8	1	-	2	Tr	2-3	4000
	Boscombe Down	1021·9	-2	S'W	5	bc	73	45	8	1	-	9	Tr	2-3	5700
	Calshot (Soton.)	1023·6	-2	SSW	5	b	71	55	8	-	4	-	0	1	-
	Lympne ...	1025·2	-6	S'E	2	c	68	45	8	-	-	6	0	7-8	-
	Manston ...	1024·9	-10	S'W	2	c	72	45	7	-	-	6	0	7-8	-
2	Shoeburyness ...	1024·4	-18	S	4	c	73	45	8	-	-	2	0	7-8	-
	Felixstowe ...	1024·9	-10	S'E	4	c	68	55	7	-	-	6	0	9	-
	Gorleston ...	1024·7	-8	SSE	4	bc	65	65	7	-	7	-	0	4-6	-
	Mildenhall ...	1022·6	-12	S'W	5	c	77	35	8	1	-	2	Tr	7-8	4000
	Cranwell ...	1020·9	-14	SSW	5	bc	76	45	8	1	7	·	2-3	4-6	4000
3	Birmingham	1020·2	-4	SSW	4	bc	73	35	8	7	3	-	2-3	4-6	4000
	Upper Heyford	1021·2	-14	S	3	bc	76	45	7	1	7	1	2-3	4-6	4000
4	Ross-on-Wye ...	1020·9	0	SSW	4	c/pr	67	65	8	5	-	-	10	10	2500
5	Hartland Point	1022·7	+24	W	3	c	60	85	8	5	6	-	2-3	7-8	1500
	Bristol ...	1021·9	+4	SSW	4	c	69	65	8	5	7	-	4-6	7-8	2500
	Portland Bill ...	1023·5	+8	S	4	c	61	85	8	5	4	-	4-6	10	4000
	Plymouth ...	1022·7	+10	NW	3	mo/c	61	92	6	5	2	-	9+	10	1500
	The Lizard ...	1023·6	+20	WNW	3	c	63	85	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	1023·6	+20	W'N	2	bc	66	75	8	2	4	-	2-3	4-6	2500
	Guernsey ...	1022·9	-2	S'W	2	bc	72	65	7	·	3	8	0	4-6	·
6	Pembroke ...	1022·0	+12	W'N	3	bc	60	85	8	5	2	-	1	2-3	1500
7	Holyhead ...	1020·4	+24	SSW	4	b	61	75	9	2	3	-	1	1	2500
	Chester (Sealand)	1020·3	+20	WSW	3	roro	62	85	7	6	2	-	4-6	10	450
8	Manchester ...	1020·3	+14	SW	3	roro	62	85	7	5	2	-	7-8	10	800
10	Spurn Head ...	1020·5	-14	SSE	4	c	70	45	7	2	4	9	1	7-8	4000
	Catterick ...	1018·1	-6	WSW	4	c	73	45	7	5	7	-	4-6	9	5700
	Tynemouth ...	1018·1	-6	S	4	c	71	45	6	8	-	-	9	9	2500
11	St. Abbs Head	1016·9	-2	SW	4	c	67	45	7	5	6	-	7-8	10	2500
	Leuchars ...	1017·2	+14	WSW	3	iro	60	92	7	5	2	-	9	10	2500
12	Renfrew (Abbots I.)	1016·9	+14	SW'S	3	c	65	65	9	2	4	-	7-8	7-8	2500
	Eskdalemuir ...	1017·8	+6	SW'S	4	roro	56	97	6	6	-	-	10	10	220
	Point of Ayre ...	1019·2	+18	W'N	5	b	69	55	8	1	4	9	Tr	1	2500
13A	Tiree ...	1014·1	+16	SSW	5	bc	61	75	8	8	3	-	4-6	4-6	1500
13B	Stornoway ...	1012·5	+12	S	6	c	61	75	8	5	7	-	4-6	9+	2500
15	Dalwhinnie ...	1016·1	+16	SW	5	c	54	85	7	4	2	1	4-6	10	2500
	Aberdeen ...	1016·9	-2	S	4	c	60	75	6	-	7	·	0	9	5700
	Wick ...	1015·0	+4	SSE	4	c	56	85	6	5	7	9	4-6	9+	2500
16	Lerwick...	1018·7	0	SSE	7	c	57	85	7	5	7	-	4-6	7-8	1500
17	Blacksod Point..	1018·2	+34	WSW	4	PR	59	75	7	9	-	-	9	9	800
18	Malin Head ...	1016·1	+22	S'W	5	c/pr	58	85	8	9	-	-	7-8	7-8	5700
	Aldergrove ...	1016·9	+16	SW'W	4	c/jp	66	55	8	2	3	2	4-6	9+	2500
19	Birr Castle ...	1019·9	+20	WSW	3	c/pr	64	55	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy. †	1022·7	+26	W	3	bc	60	75	8	2	3	-	1	2-3	2500
	Roches Point ...	1021·3	+14	W'N	4	bc	63	65	8	3	4	-	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 29th June

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1023·3	0	SSW	3	bc	72	45	8	7	3	-	2-3	4-6	4000	0	*
Croydon	1023·5	+2	SW'S	3	bc	71	45	8	1	5	-	Tr	4-6	4000	0	*
S. Farnborough	1023·3	0	SSW	4	bc	70	35	8	1	-	5	2-3	2-3	4000	0	*
Boscombe Down	1024·1	+14	W	3	c/d	61	85	8	5	-	-	9	9	2500	0	*
Calshot (Soton.)	1023·7	0	SW	3	c	68	75	7	1	7	9	Tr	7-8	4000	0	2
Lympne	1024·8	-2	SSE	2	bc	68	45	8	-	4	2	0	2-3	-	0	§ 2
Manston	1024·5	-2	SE'S	2	b	67	65	7	-	-	6	0	1	-	0	*
Shoeburyness	1024·0	-2	S'E	3	bc	71	45	8	-	5	9	0	4-6	-	0	*
Felixstowe	1023·9	-4	SSE	4	bc	66	65	7	5	4	·	2-3	4-6	5700	0	2
Gorleston	1024·1	-4	SSE	4	bc	64	75	6	-	4	-	0	2-3	-	0	3
Mildenhall	1022·2	-2	S	3	bc	75	35	7	7	6	9	2-3	4-6	5700	0	*
Cranwell	1022·0	+14	W'N	3	c	68	75	8	9	-	-	9+	9+	4000	0	*
Birmingham	1023·2	+14	-	0	c/r	57	97	6	5	7	-	4-6	7-8	2500	1	*
Upper Heyford	1023·0	+14	WSW	3	id	64	85	7	6	7	-	9	9+	800	1	*
Ross-on-Wye	1022·8	+14	SSW	2	c	63	75	9	7	-	-	7-8	7-8	2500	1	*
Hartland Point	1025·0	+12	W	3	bc	61	85	8	2	4	-	2-3	4-6	2500	0	2
Bristol	1024·3	+10	W'S	3	c	64	75	8	8	6	4	4-6	7-8	2500	1	*
Portland Bill	1024·4	+6	N	2	pr	59	85	7	5	-	-	10	10	2500	1	3
Plymouth	1025·1	+16	NW	3	bc	66	55	8	7	3	-	4-6	4-6	2500	0	2
The Lizard	1025·5	+12	WNW	3	bc	62	75	8	8	-	-	2-3	2-3	2500	1	2
Scilly (St. Mary's)	1025·4	+4	NW'W	4	bc	64	65	8	2	4	-	2-3	2-3	2500	0	2
Guernsey	1023·6	+2	NW'N	1	bc	66	85	8	5	3	-	2-3	2-3	2500	0	2
Pembroke	1024·6	+8	W	3	bc	60	75	7	1	4	3	Tr	4-6	2500	1	2
Holyhead	1022·5	+10	SW	3	c	59	85	8	8	-	-	9+	9+	2500	1	2
Chester (Sealand)	1022·4	+6	NNW	3	bc	64	55	8	8	4	4	4-6	4-6	4000	1	*
Manchester	1022·2	+4	W'N	3	bc	65	55	9	7	4	-	2-3	2-3	4000	1	*
Spurn Head	1021·2	+4	W'N	6	u	64	85	6	6	2	-	7-8	10	1500	0	4
Catterick	1021·9	+18	-	0	c/r	61	85	8	5	7	-	4-6	9	4000	1	*
Tynemouth	1020·5	+16	W	2	c	65	75	6	8	3	-	4-6	7-8	2500	0	1
St. Abbs Head	1018·5	+14	WNW	2	c	65	55	9	8	6	1	4-6	7-8	2500	0	1
Leuchars	1018·2	+6	WSW	4	c	66	55	8	8	7	6	2-3	7-8	2500	0	*
Renfrew (Abbots I.)	1020·6	+24	W	2	c/r	58	85	9	5	-	·	9+	9+	2500	1	*
Eskdalemuir	1020·5	+18	SW'S	4	pr	60	75	8	8	7	1	4-6	9	1500	1	*
Point of Ayre	1021·8	+16	W	4	c	64	65	8	5	4	-	4-6	7-8	2500	0	3
Tiree	1018·8	+20	SW'W	4	bc	58	75	8	7	-	-	1	2-3	2500	0	4
Stornoway	1015·9	+24	SW	5	c	58	55	8	2	7	-	4-6	7-8	2500	1	3
Dalwhinnie	1018·9	+20	SW	4	c	55	75	8	4	2	1	4-6	7-8	4000	0	*
Aberdeen	1017·9	+4	S'W	4	bc	63	75	7	8	-	3	4-6	4-6	2500	0	2
Wick	1016·3	+6	S	3	bc	57	85	7	8	7	3	2-3	4-6	1500	1	2
Lerwick	1019·2	+2	S	7	c	55	92	7	8	2	-	7-8	10	800	0	*
Blacksod Point	1022·6	+30	W	3	bc	58	65	7	3	-	-	2-3	2-3	2500	0	2
Malin Head	1030·5	+28	S'W	4	c	58	75	8	9	6	-	4-6	7-8	5700	0	3
Aldergrove	1021·3	+22	W	3	bc	62	55	9	2	3	-	1	4-6	4000	1	*
Birr Castle	1023·7	+12	WSW	2	bc	64	55	8	2	-	-	4-6	4-6	1500	1	*
Valentia Obsy. †	1026·1	+18	W	3	bc	60	75	8	8	-	2	2-3	4-6	2500	1	2
Roches Point	1024·2	+16	NNW	4	bc	64	65	8	2	-	5	2-3	4-6	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)	cy⊕bcy	bybcy	bcycproc	cbbcy
Croydon	bcy	bybcy	bcydodomo	cmodoccmo
S. Farnborough	cbcy	bbcy	prorobc	bccFmobc
Boscombe Down	cbc	bc, cido	cprob	bbccmo
Calshot (Soton.)	c⊕bcb	byb.c	cidoirocb	bwbcb
Lympne	bcc⊕y	cbcy	bcbmocy	cycbc
Manston	bccy	bcyb	bc	bcc
Shoeburyness	bcy	bcyby	bcyc	irobcmo
Felixstowe	bcvyc	cybc	bc,mo	bcmociro
Gorleston	bc	bc	bcc	c
Mildenhall	cybcy	bcy	bcyirocbc	bcbmoFbcmo
Cranwell	zocbcy	cygc	bcbmo	bmofzo
Birmingham	cbc	bccror	cb	b
Upper Heyford	cbcy	bcycyirocid	crocbcb	bccbc
Ross-on-Wye	cbbcqcpo	porcrocu	cbcb	bw
Hartland Point	droro	cbc	mbc	bc
Bristol	cbcyc	cirobc		bmowbc
Portland Bill	c	oPR	bc	bc
Plymouth	cdrdrc	cybcy	bcyb	bbc
The Lizard	cffdc	cbc	bcw	bc
Scilly (St. Mary's)	dmcbc	bcb	bbcb	bbcw
Guernsey	cbc	bc	cbcbw	bw
Pembroke	cirbc	bc	bc	bc
Holyhead	crorrb	b,c	cwb	bwbc
Chester (Sealand)	bccroro	cbcy	bcyc,b	b,cwc
Manchester	cbcycroro	cRRbcby	bybcbmow	bcFfm
Spurn Head	c	oprou	bc	bc
Catterick	bccy	cycir o	cbbcb	bwbcy
Tynemouth	c	cpoc	cbcc	cbc
St. Abbs Head	cy	cy	cbc	bc
Leuchars	cbccirir o	cirocy	cybc	bcbbc
Renfrew (Abbots I.)	crorododoc	bccyiRc	cprocbc	bcbw
Eskdalemuir	bccrrro	robcpro	cprobc	bcb
Point of Ayre	cbcb	c	bbw	bc
Tiree	bc	bc	bc	bcc
Stornoway	cpr	cpr	bcc	cpr.b
Dalwhinnie	cir	cir	*o	ciro
Aberdeen	bcczo	irobc	bc	bc
Wick	bccmo	proro	vbc	bc
Lerwick	c	cir	cir	cbc
Blacksod Point	prcq	bc	bc	cbc
Malin Head	c	c	bcc	bcc
Aldergrove	bccp	procbcy	bcybcb	bwbc
Birr Castle	cpr	cbcy	c	bc
Valentia Obsy. †	bcprocbc	bcebc	bcwbw	bwbcwcbc
Roches Point	probc	bc	bc	bwbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄ gale.
⊕ Solar halo. ⊕ lunar halo. ⌂ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

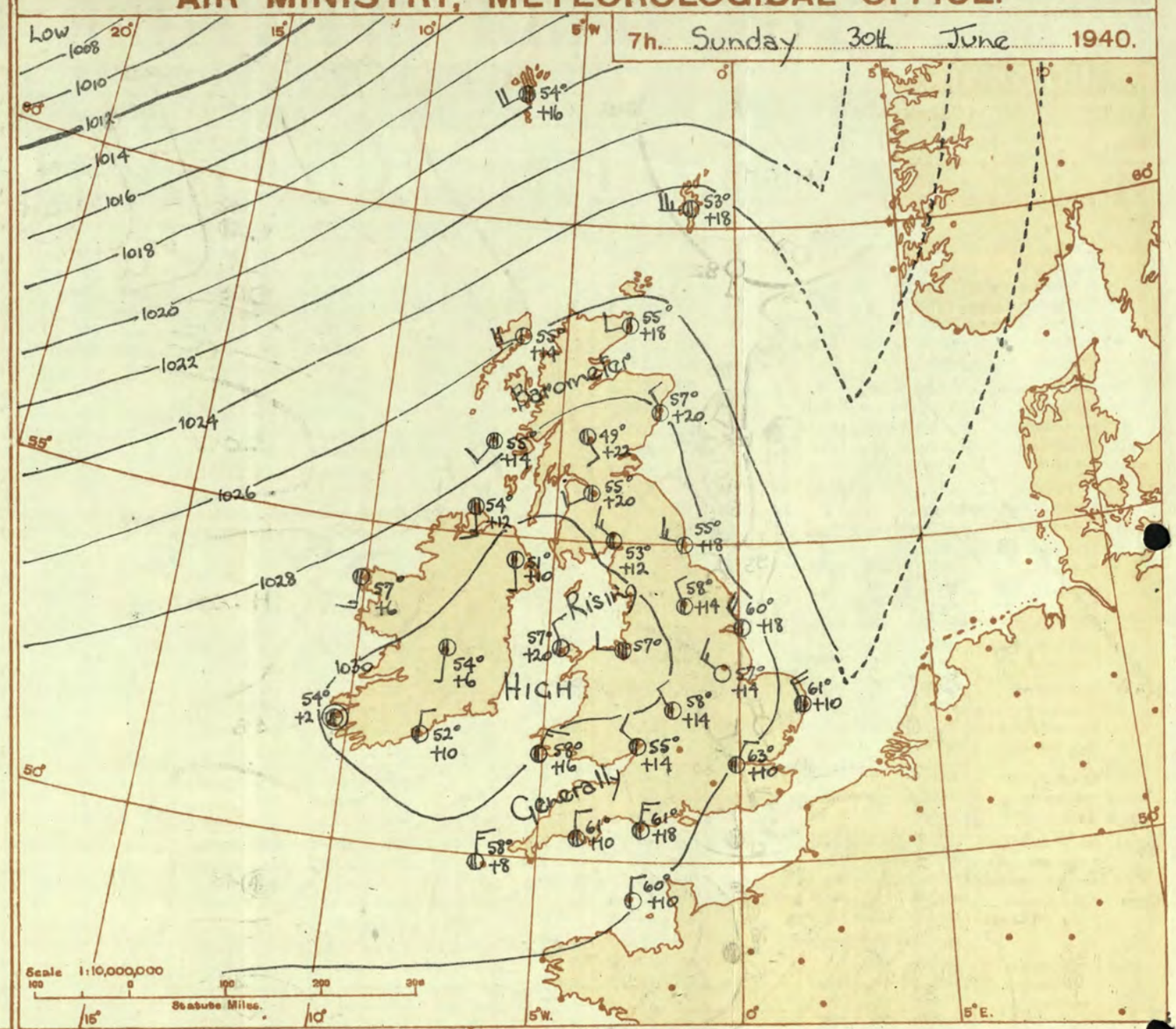
COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. ,, covered with thawing snow.
7 .. Ground covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.
– .. Fresh snow has fallen in the mountains.

Note.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 30th June 1940.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th June, 1940.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light northeast wind moderate on East Coast; mainly fine; local mist in early morning; rather warm during day.
4 W. Midlands ...	As 6 – 12.
5 S.W. England 6 South Wales ...	Light or moderate northeast wind becoming southeast; fine; rather warm.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light variable wind; mainly fine; local mist early morning; rather warm during day.
13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkneys and Shetlands	Light or moderate west to southwest wind, fresh on coasts in North; fine in South; fair apart from occasional showers in North; temperature mainly about average, but rather warm inland in South during day.
17 N. W. Ireland 18 N. E. Ireland	Moderate or light south wind; fair; rather warm inland during day.
19 S E. Ireland 20 S. W. Ireland	Wind light variable becoming southeast moderate; fine; rather warm inland during day

GENERAL INFERENCE.

A large anticyclone centred to southwest of the British Isles is spreading northeast and it is probable that its main centre will become situated over this country. Weather will be fair or fine in most districts but scattered showers are likely in the extreme North.

FURTHER OUTLOOK.

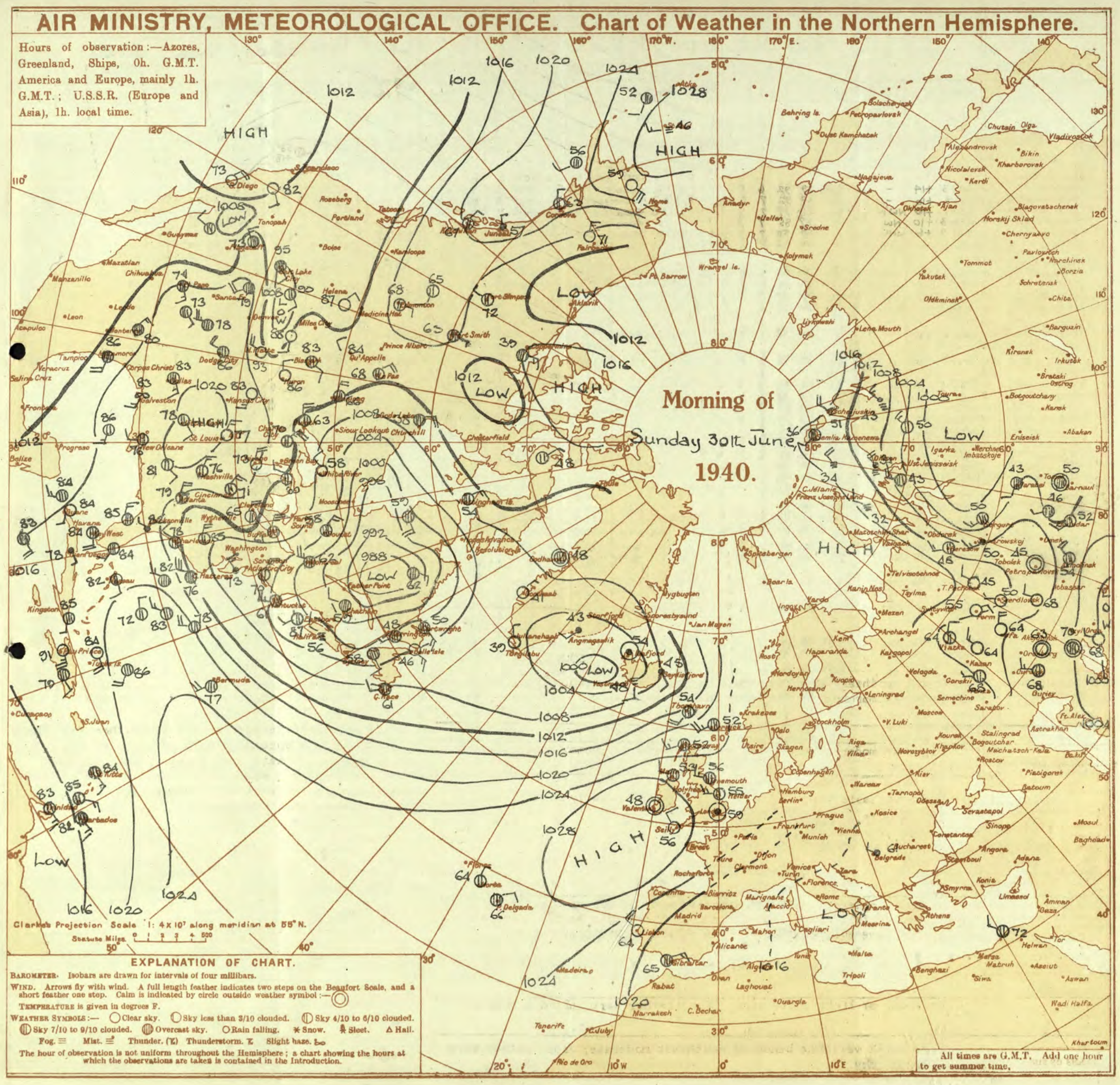
Fair or fine in most districts.

Forecasts issued at

N. K. JOHNSON. D.Sc., A.R.C.S.
Director.

H.M.S.O. Press, Cornwall House, S.E.1.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 30th June 1940.

No. 28710

OBSERVATIONS at 1 hr. G.M.T. 30th June

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	1027·3	+14	-	0	dodo	59	92	6	5	-	-	10	10	4000
	S. Farnborough	226	1026·8	+10	-	0	bc	57	92	7	5	-	-	2·3	2·3	4000
	Boscombe Down	417	1027·1	+10	NW'N	2	bc	53	97	7	5	7	-	Tr	2·3	4000
	Calshot (Sthmtn.)	8	1026·3	+10	NW	3	b	57	85	7	5	-	-	1	1	4000
	Lympne ...	346	1025·9	+6	WNW	2	c	59	55	7	5	3	-	7-8	9	2500
	Manston ...	154	1026·1	+6	WSW	3	c	58	65	7	5	3	-	4·6	7·8	5700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	1025·5	+10	NW	2	Zo	60	85	6	5	-	8	2·3	4·6	4000
	Gorleston ...	5	1025·2	+8	NW'W	1	c	60	65	6	5	3	-	2·3	7·8	2500
	Mildenhall ...	19	1026·2	+14	NW	2	bc	57	85	8	5	-	-	2·3	2·3	4000
	Cranwell ...	240	1026·8	+16	WNW	2	Zo	52	97	6	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	1026·5	+10	-	0	b	54	92	7	5	-	-	Tr	Tr	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1027·7	+6	W	2	bc	58	92	8	5	-	1	2·3	2·3	2500
	Bristol ...	209			-	0	Zo			6	-	-		0	2·3	-
	Portland Bill ...	32	1027·4	+16	NW	3	bc	56	85	8	5	-	-	4·6	4·6	4000
	Plymouth ...	82	1028·2	+10	NW	2	b	55	85	7	5	-	1	Tr	Tr	2500
	The Lizard ...	240	1028·7	+4	NNW	3	bc	52	97	8	4	-	1	2·3	2·3	2500
	Scilly (St. Mary's)	163	1028·8	+8	NW'N	3	b	56	85	8	5	-	-	1	1	4000
	Guernsey ...	175	1026·9	+6	NNW	1	b	57	85	7	-	-	-	0	0	-
6	Pembroke ...	142	1027·9	+14	N	3	bc	56	85	8	8	6	-	2·3	4·6	2500
7	Holyhead ...	26	1027·4	+20	NW'W	4	b	56	85	8	2	4	6	Tr	1	2500
	Chester (Sealand)	16	1027·2	+18	WNW	1	bc	56	75	7	5	-	-	2·3	2·3	5700
8	Manchester ...	70	1026·8	+16	N'E	1	Zo	50	92	5	5	-	-	1	1	4000
10	Spurn Head ...	29	1025·8	+16	W'S	3	bc	55	92	6	-	4	4	0	2·3	-
	Catterick ...	175	1026·3	+18	-	0	bc	49	85	7	5	7	1	1	2·3	5700
	Tynemouth ...	108	1024·6	+18	W	3	Zo	56	85	6	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	1024·9	+26	WNW	4	bc	54	75	8	4	4	3	1	2·3	2500
	Leuchars ...	36	1024·9	+30	SW	2	bc	50	92	7	5	7	-	1	4·6	4000
12	Renfrew (Abbots I.)	19	1026·1	+18	SW'W	2	bc	50	92	8	8	-	1	1	2·3	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1026·6	+22	WNW	2	b	49	97	8	8	-	-	Tr	Tr	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1022·5	+26	SW	3	c	52	85	7	5	7	-	4·6	7·8	4000
15	Dalwhirnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1022·6	+26	NW	1	bc	48	85	7	5	3	-	2·3	4·6	2500
16	Lerwick ...	156	1021·3	+10	SW'W	5	c	52	92	7	8	7	-	4·6	7·8	800
17	Blacksod Point	18	1027·3	+16	W	1	bcjp	49	92	7	3	-	-	2·3	2·3	2500
18	Malin Head ...	84	1026·5	+20	W	2	c	53	85	7	8	-	4	2·3	4·6	5700
	Aldergrove ...	268	1027·9	+24	W'S	2	c	48	85	7	5	-	1	1	2·3	4000
19	Birr Castle ...	173	1029·0	+14	WNW	1	c	47	75	8	-	-	7	0	10	-
20	Valentia Obsy.	30	1029·6	+8	-	0	b	48	92	8	5	-	-	Tr	Tr	2500
	Roches Point	22	1029·2	+14	NW'W	3	bc	54	92	8	5	-	-	2·3	2·3	2500

OBSERVATIONS at 7 hr. G.M.T. 30th June

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)	1028·8	+10	NE'N	2	bc	62	65	7	-	-	6	0	4·6	-	0	*
	Croydon ...	1028·0	+10	NE'N	2	bc	63	65	7	-	-	2	0	4·6	-	1	*
	S. Farnborough	1028·8	+10	NNW	2	bc	58	85	7	-	4	2	0	2·3	-	0	*
	Boscombe Down	1029·4	+16	NNW	2	Zo	54	85	8	-	-	1	0	2·3	-	1	*
	Calshot (Sthmtn.)	1028·2	+12	NNW	2	b	59	85	7	-	-	1	0	1	-	0	1
	Lympne ...	1027·4	+14	N	3	c	60	75	8	5	3	6	2·3	7-8	4000	0	§2
	Manston ...	1027·8	+16	N	4	c	62	85	7	5	3	-	7-8	9	4000	0	*
2	Shoeburyness ...	1028·0	+8	N	2	bc	62	75	6	5	-	4	4·6	4·6	4000	0	*
	Felixstowe ...	1027·7	+14	N'W	3	c/r	60	75	7	5	-	5	7-8	7-8	2500	1	1
	Gorleston ...	1027·0	+10	NNW	4	c	61	75	7	5	3	-	2·3	7-8	2500	0	1
	Mildenhall ...	1028·5	+10	N'W	3	zo	58	85	6	-	3	4	0	4·6	-	0	*
	Cranwell ...	1029·2	+14	NW	3	zo	57	75	6	-	-	1	0	4·6	-	0	*
3	Birmingham ...	1029·9	+14	NNW	2	bc	58	85	6	-	5	6	0	4·6	-	1	*
	Upper Heyford	1029·1	+14	NNE	2	bc	56	75	7	-	-	2	0	2·3	-	0	*
4	Ross-on-Wye	1029·6	+14	NW'W	2	b	55	85	8	-	4	1	0	1	-	0	*
5	Hartland Point	1029·7	+14	NE	2	bc	59	85	8	4	-	4	1	2·3	4000	0	2
	Bristol ...	1030·4	+18	N	1	bc	57	75	8	-	-	5	0	2·3	-	0	*
	Portland Bill ...	1028·7	+18	N	3	bc	61	75	8	1	-	1	4·6	4·6	4000	1	3
	Plymouth ...	1029·2	+10	N'W	2	bc	61	85	8	5	-	2	Tr	4·6	1500	0	1
	The Lizard ...	1029·2	+4	NNE	3	bc	59	85	8	4	7	-	4·6	4·6	2500	0	3
	Scilly (St. Mary's)	1029·7	+8	NE'N	3	bc	58	85	8	-	4	2	0	4·6	-	0	2
	Guernsey ...	1028·1	+10	N	2	bc	60	85	7	1	-	8	Tr	2·3	2500	0	2
6	Pembroke ...	1029·7	+16	NE	3	bc	58	75	8	5	7	6	1	4·6	2500	1	2
7	Holyhead ...	1030·5	+20	N'W	2	c	57	85	8	-	-	4	0	7-8	-	0	2
	Chester (Sealand)	1030·4	+20	W'N	2	c	57	85	8	5	-	-	9	9	2500	1	*
8	Manchester ...	1030·0	+18	SW	1	zo	56	85	5	1	4	-	Tr	1	4000	1	*
10	Spurn Head ...	1028·3	+18	NW'N	4	bc	60	75	7	-	-	6	0	2·3	-	0	3
	Catterick ...	1029·6	+14	NNW	2	bc	58	55	8	1	-	9	Tr	4·6	4000	0	*
	Tynemouth ...	1028·3	+18	WNW	3	zo	55	75	6	-	4	2	0	2·3	*	0	1
11	St. Abbs Head	1028·4	+18	WNW	3	bc	55	65	8	4	4	9	2·3	4·6	2500	0	2
	Leuchars ...	1028·3	+16	W	2	bc	57	65	8	-	3	1	0	2·3	-	0	*
12	Renfrew (Abbots I.)	1029·8	+20	SW'W	2	b	55	85	9	1	4	1	1	1	2500	1	*
	Eskdalemuir ...	1029·3	+12	NW	3	bc	53	75	8	1	-	1	1	2·3	2500	1	*
	Point of Ayre...	1030·3	+20	NNW	2	bc	56	85	8	1	-	2	Tr	4·6	2500	0	1
13A	Tiree	1027·7	+14	SW'S	2	c	55	85	8	5	3	-	2·3	7-8	4000	0	2
13B	Stornoway ...	1026·1	+14	SW	4	b	55	75	7	1	-	-	Tr	Tr	4000	1	1
15	Dalwhirnie ...	1028·7	+22	S	2	bc	49	75	8	4	6	-	2·3	4·6	4000	0	*
	Aberdeen ...	1028·1	+20	NW	2	bc	57	65	8	5	9	-	1	2·3	4000	0	2
	Wick ...	1026·5	+18	WSW	2	bc	55	75	8	5	4	1	2·3	4·6	2500	0	1
16	Lerwick ...	1024·7	+18	W'S	5	bc	53	85	7	5	-	-	4·6	4·6	1500	1	*
17	Blacksod Point	1028·7	+6	S'W	3	c	57	85	7	-	4	-	0	7-8	-	0	2
18	Malin Head ...	1028·8	+12	S	3	c	54	75	8	5	8	-	4·6	9	5700	0	3
	Aldergrove ...	1030·1	+10	S'W	1	bc	51	85	7	5	-	6	Tr	4·6	2500	0	*
19	Birr Castle ...	1030·4	+6	S	1	bc	54	75	8	-	-	4	0	2·3	-	0	*
20	Valentia Obsy.	1030·3	+2	-	0	bc	54	85	8	7	3	3	Tr	4·6	2500	0	1
	Roches Point	1031·2	+10	N	2	bc	52	92	8	-	-	5	0	4·6	-	1	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 29th Hrs. (36)
1	London (Kew)	75	57	48	-	Tr	14·0
	Croydon ...	76	55	48	-	0·6	12·9
	S. Farnborough	77	51	45	-	Tr	12·0
	Boscombe Down	73	48	43	Tr	0·2	7·3
	Calshot (Sthmtn.)	71	54	53	-	Tr	8·3
	Lympne ...	72	56	47	-	-	14·0
	Manston ...	75	56	52	-	-	14·2
2	Shoeburyness ...	75	57	50	-	0·1	12·7
	Felixstowe ...	71	59	57	-	Tr	13·2
	Gorleston ...	66	58	57	-	-	12·7
	Mildenhall ...	79	48	29	-	Tr	12·6
	Cranwell ...	80	47	43	-	0·3	8·0
3	Birmingham ...	74	51	39	4	-	6·4
	Upper Heyford	78	49	44	Tr	-	*
4	Ross-on-Wye	71	46	41	1	-	4·2
5	Hartland Point	64	55	51	3	-	7·8
	Bristol ...	71	46	38	0·1		5·5
	Portland Bill ...	62	55	*	0·6	0·1	*
	Plymouth ...	66	53	46	1	-	5·3
	The Lizard ...	65	51	*	1	-	6·9
	Scilly (St. Mary's)	67	55	*	0·6	-	8·8
	Guernsey ...	75	54	49	-	-	12·5
6	Pembroke ...	61	52	*	3	-	9·3
7	Holyhead ...	63	54	49	6	-	4·9
	Chester (Sealand)	68	51	41	1	-	4·4
8	Manchester ...	72	41	38	7	-	7·1
10	Spurn Head ...	75	54	*	Tr	Tr	7·4
	Catterick ...	74	44	37	0·5	-	4·6
	Tynemouth ...	73	51	47	0·2	-	*
11	St. Abbs Head	69	52	*	0·2	-	*
	Leuchars ...	68	45	35	0·6	-	2·4
12	Renfrew (Abbots I.)	67	45	37	2	Tr	4·4
	Eskdalemuir ...	65	43	35	4	0·2	5·0
	Point of Ayre...	71	47	*	1	Tr	6·0
13A	Tiree	62	46	*	0·3	-	9·5
13B	Stornoway ...	61	50	*	0·5	Tr	2·8
15	Dalwhirnie ...	64	46	39	0·5	Tr	5·4
	Aberdeen ...	64	46	36	Tr	-	7·3
	Wick ...	58	44	*	1	-	*
16	Lerwick ...	58	51	*	0·5	2	3·7
17	Blacksod Point	61	47	*	2	-	*
18	Malin Head ...	63	46	*	Tr	-	11·0
	Aldergrove ...	67	42	39	0·1	-	9·3
19	Birr Castle ...	65	43	40	0·4	-	10·2
20	Valentia Obsy.	62	45	41	Tr	Tr	12·3
	Roches Point	66	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 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	cy⊕bcy	bybcy	bcypr.bc	75	57	48	-	Tr	14·0	*	*	7
CROYDON	217	bcy	bybcy	cydodem.	76	55	48	-	0·6	12·9	*	*	7
GREENWICH (Royal Observatory)...	149	bcy	by	cby	78	57	49	-	-	14·1	34	51	8
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	76	58	53	·0·5			45	54	*
REGENTS PK. (Botanic Gardens)‡...	168	*	*	*									*
CAMDEN SQUARE	110	bc	bc	*	79	58	52	-	Tr	*	*	51	*
KENSINGTON	80	bc	bc	*	78	58	53	-	-		38	49	*
HAMPSTEAD OBSERVATORY	450										*		*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 30th

South Kensington. Max.	Time.	Min.	Time.

Kew Observatory. Max.	Time.	Min.	Time.
Low	whole	period	

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 29th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 30th June Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
PARIS														
BRUSSELS														
BERLIN														
ZÜRICH														
ROME														

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 —Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6¼ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30 —Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Preciptious.
4	Rough.	9	Confused.

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