M.O. Form 2373

THE DAILY WEATHER REPORT

BRITISH SECTION

1st July to 30th September

1931.

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. Those for most of Europe (excluding Russia) and neighbouring countries refer to 7h. G.M.T., exceptions being :—Bulgaria (5h. G.M.T.) Austria, Hungary, Greece, Turkey, Egypt, Sudan, Cyprus, Palestine, Syria (6h. G.M.T.) Azores (8h. G.M.T.). The Greenland observations shown are made at 0h. G.M.T. with the exception of these for Mygbugten, which are for 7h. G.M.T., while those for North America are made at 1h. G.M.T.

In the case of ships at sea, the hour of observation for vessels east of 40° W. is 6h. G.M.T. while that for vessels west of 40° W. is 0h. G.M.T.

Thus, within each of the two sectors 40° W. to 170° W. and 30° E. to 40° W., the observations are approximately synchronous among themselves though most of those in the western sector refer to an epoch 6 hours earlier than do most of those in the eastern sector.

The observations shown for Russia and Siberia are especially to be noted from this standpoint of time. They are made at 7h. *local time* which implies that the absolute time to which they refer varies over a wide range, viz. ; from 5h. G.M.T. in the longitude of Leningrad (35° E.) to 19h. G.M.T. of the *previous day* in longitude 180° E.

The map on the following page shows graphically the hours of observation over the various parts of the weather chart for the Northern Hemisphere.

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 anémometer 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 by the use of this table. 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.

Upper Air Section:—The third section, called the " Upper Air Section " consists of 2 pp. Royal quarto per day and is issued in the same manner as the International Section. It contains maps, diagrams and tables showing upper air currents and upper air temperatures over the British Isles and on the Continent of Europe ; and the cloud forms observed at different heights over the British Isles.

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.

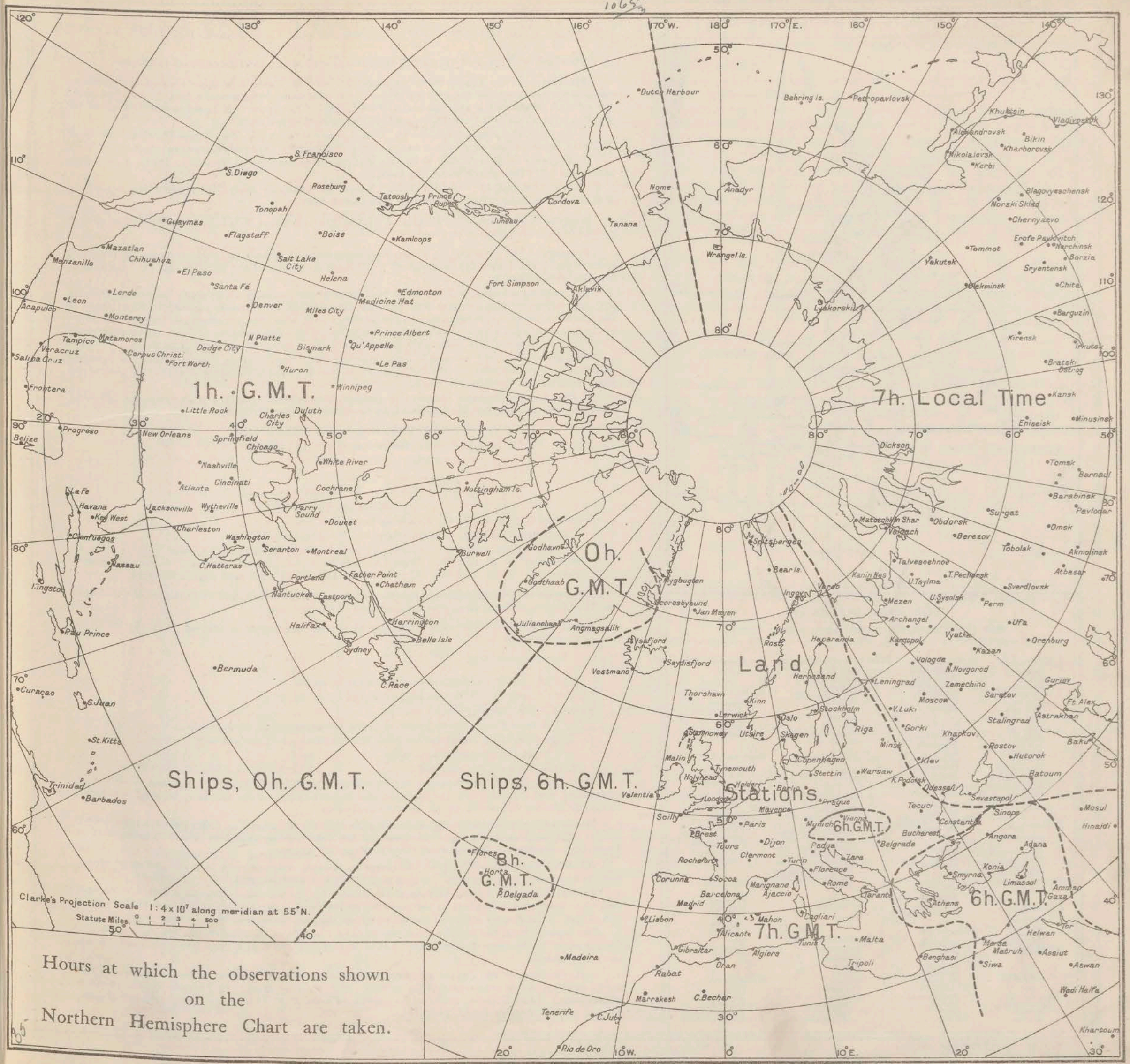
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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 :—

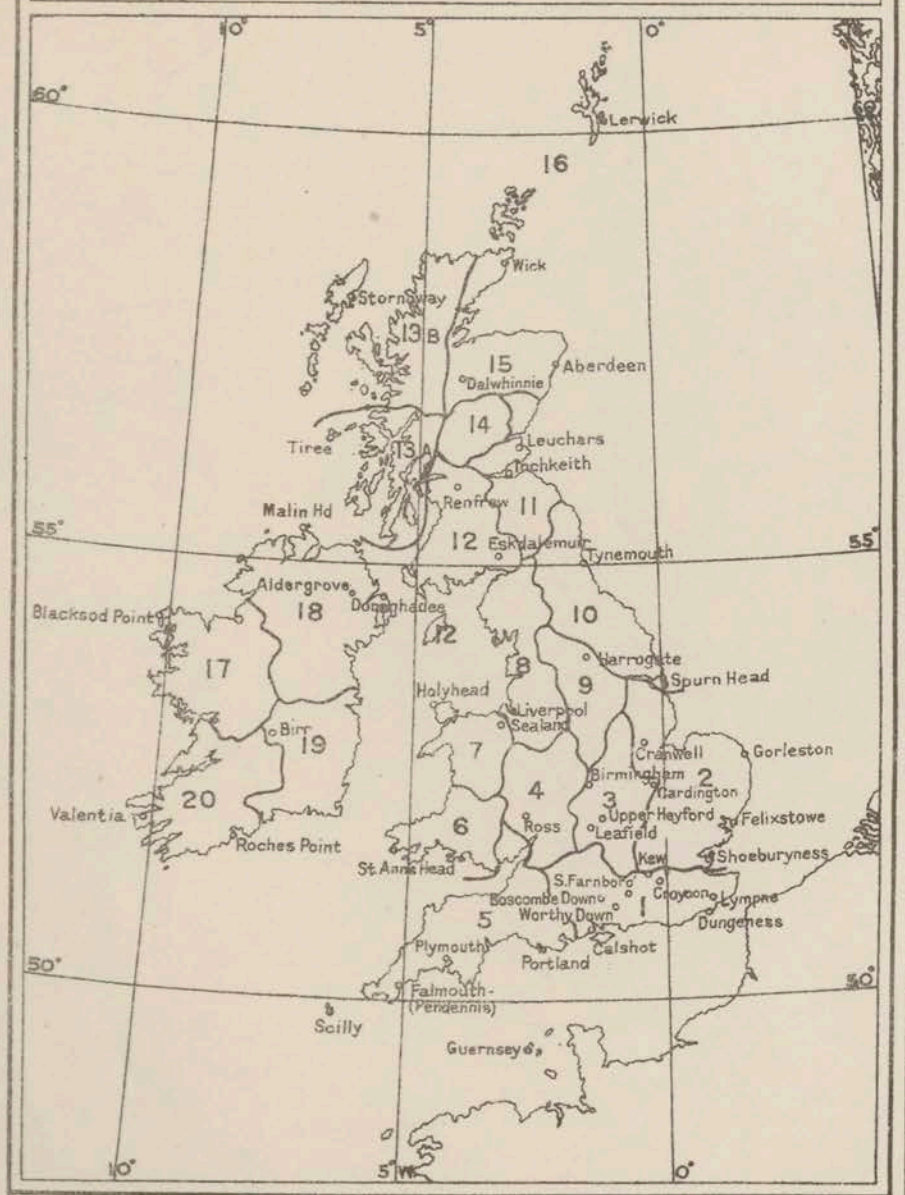
▲ North Cone hoisted : ▼ South Cone hoisted :

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

1065


1h. G.M.T.
7h. Local Time
Oh. G.M.T.
Land
Ships, Oh. G.M.T.
Ships, 6h. G.M.T.
Stations
8h. G.M.T.
6h. G.M.T.
6h. G.M.T.
7h. G.M.T.
Clarke's Projection Scale 1:4x10⁷ along meridian at 55°N.
Statute Miles 0 1 2 3 4 500
Hours at which the observations shown on the Northern Hemisphere Chart are taken.

FORECAST DISTRICTS AND BRITISH STATIONS



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.
    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.

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

Dalwhinnie.—Observations from this station commenced on 1st January, 1931. The instruments are 1,176 feet above Mean Sea Level.

Nairn.—Telegraphic reports from Nairn at synoptic hours of observation ceased on 31st December, 1930, after having been taken since 1867.

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.

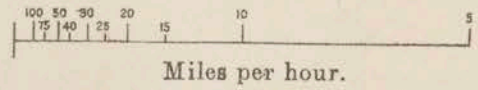
The wind at a height of 1,500-2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the upper wind is about 12 m.p.h. in latitude 55°, with a temperatnre 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;
f the saturation vapour pressure at the temperature of the wet bulb;
t the dry bulb temperature; and
t' the wet bulb temperature.

The values printed in columns 7 and 21 always end with the figure 5. By this it should be understood that a value of 95, for example, stands for any one of the values 90 to 100; a value of 85 stands for any one of the values 80 to 89 and so on.

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. The number of feathers on the arrows denotes wind force by Beaufort number.

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 in the monthly correction sheets.

The reports from the London Stations on page 1 and from the Health Resorts on page 2 are not subjected to the same close scrutiny, but if any errors are found these are also noted in the correction sheets.

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, Adastral House, Kingsway, W.C.2, price 3s. 2d. post free.

H.M. Stationery Office Press Kingsway W.C.2.

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT, JULY 1931. Nº 175

Notes on the Weather of the Month.

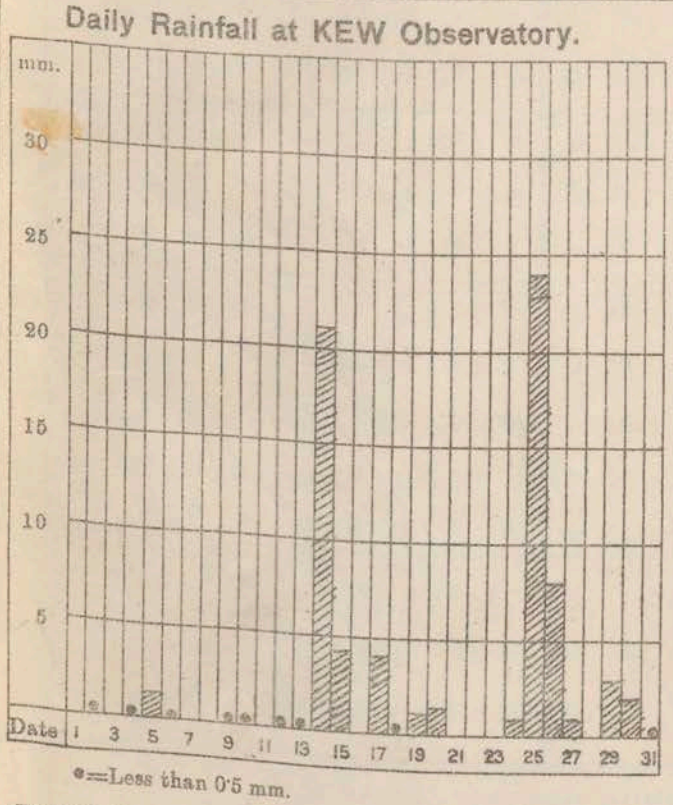
July failed to bring any change from the generally unsettled, rather cool weather of the preceding months. Except on the east coast the month was devoid of any spell of seasonably warm weather and thunderstorms were again frequent.

With a low pressure area maintained off N.W.Scotland during the first few days of the month, dull conditions with rain at times prevailed in the North and West, although in the Southeastern half of the country the weather was mainly dry and often sunny. Lowestoft reported 15·3 hours of sunshine on the 3rd. when maxima exceeded 75°F. locally on the east coast. Subsequently to the 5th. a low pressure area moved slowly across the country to Denmark. Changeable weather resulted until the 10th; thunderstorms occurred in many districts from 5th.-7th; rainfall was often considerable and included 38mm. at Troon(9h-9h) and 30mm. at Scilly on the 6th. Most places however enjoyed bright periods. A very warm day in E. Scotland on the 9th(maximum 78°F. at Leuchars) was followed by thunderstorms and on the following day maxima fell to only 51°F. locally.

A new depression approached our western coasts on the 11th. and very unsettled conditions ensued until the 18th, pressure being low over most of NW Europe. Vigorous secondaries crossed the country at intervals giving general heavy rains, notably on the 11th.-12th., 14th.-15th., and 17th.-18th., and considerable thunder but bright periods. Falmouth Obsy. had 45mm. of rain on the 11th., Worthy Down 41 mm. on the 14th. High day temperatures occurred in extreme S.E. England on the 12th. when Greenwich reported 81°F. and Shoeburyness 80°F.

Conditions were mainly dull and cool with further rain from 17th.-21st., maxima on the 20th. falling below 60°F. locally This period was however sunny in the Southwest. Then followed a period of mainly dry, moderately sunny weather in England with maxima approaching 80°F. on the east coast until, on the evening of the 24th., a complex system of depressions moved in over the country causing a renewal of dull, wet weather until the 27th., the unsettled conditions then persisting to the end of the month. Sunshine totals were very low almost everywhere; in parts of Scotland, July has not been so dull for at least 21 years. Except in Northwest England rainfall was above normal.

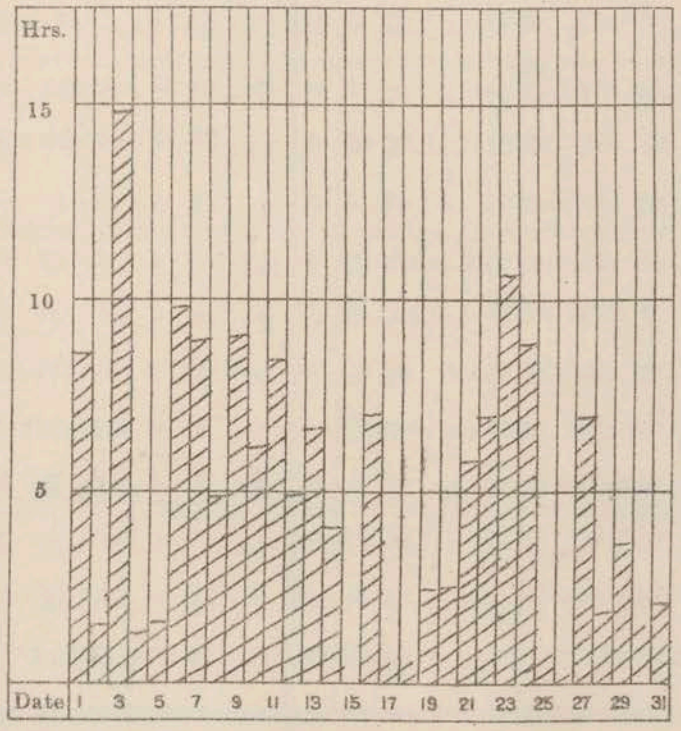
Daily Rainfall at KEW Observatory.



•=Less than 0·5 mm.

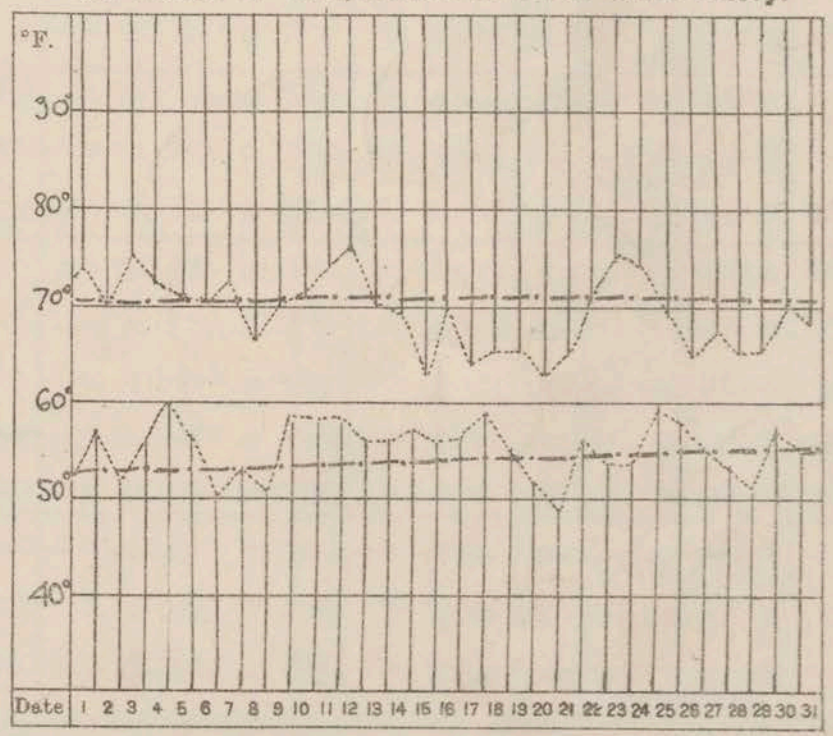
RAINFALL. Total for Month. 74 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 151 hrs.

Daily Range of Temperature at KEW Observatory.



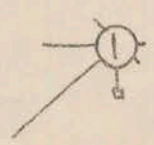
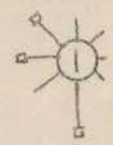
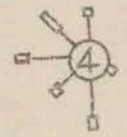
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	PRESSURE		TEMPERATURE	
	Mean	Difference from average	Mean	Difference from average
	mb.	mb.	°F.	°F.
Kew	1010·2	−5·6	62·1	−0·6
Aberdeen	1004·9	−8·1	56·7	0
Valentia	1010·1	−6·0	57·7	−1·2

* Pressure — mean for the 24 hours.
Temperature — mean of Max. and Min.

WIND FREQUENCIES AT 7 hr.

Kew	Aberdeen	Valentia
		
(1)	(1)	(4)

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

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

	miles.
Kew ...	6,549.
Aberdeen ...	4,826
Lerwick ...	10,299
Valentia ...	7,168

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

†TEMPERATURE.

	Stations.	Number of daily readings within fixed limits. Maximum. 51°–59°	60°–68°	63°–77°	78°–86°	Normal Max. °F.	Number of daily readings within fixed limits. Minimum. 33°–41°	42°–50°	51°–59°	60°–68°	Normal Min. °F.	Extremes—Warmest and Coldest. Days. Highest Max. °F.	Date.	Lowest Max. °F.	Date.	Nights. Highest Min. °F.	Date.	Lowest Min. °F.	Date.	Number of Ground Frosts.
1	London ... (Kew Obsy.)	0	12	19	0	71·0	0	2	28	1	54·3	76	12	63	15/20	60	5	49	21	0
	Croydon ...	0	18	13	0	*	0	4	27	0	*	75	12	61	15	59	5	45	21	0
	Calshot ... (Southampton)	0	28	3	0	*	0	3	27	1	*	72	1	62	26	61	12	48	21	0
	Lympne ...	1	24	6	0	*	0	8	23	0	*	74	12/24	59	20	58	25	46	1	0
2	Shoeburyness	0	12	15	4	70·8	0	5	25	1	54·7	80	12	61	20	60	5	46	21	0
	Gorleston ...	0	21	10	0	66·2	0	1	29	1	54·7	75	22	61	20	61	25	45	21	0
	Cranwell ...	0	17	14	0	69·3	0	5	26	0	51·6	76	22	60	28	57	4	45	21	0
3	Leafield ...	1	25	5	0	*	1	11	19	0	*	71	1	59	29	58	4,18/30	41	21	1
4	Ross-on-Wye ...	0	24	7	0	71·4	0	8	23	0	52·6	73	1	60	17	59	4/12	43	21	0
5	Falmouth ... (Pendennis)	2	29	0	0	*	0	1	30	0	*	67	1	58	14	58	4/16	50	6	*
7	Holyhead ...	5	26	0	0	66·4	0	1	30	0	53·8	65	30	58	3,8/29	57	31	50	1	0
8	Liverpool ... (Bidston)	3	26	2	0	65·7	0	0	31	0	54·2	71	22	58	20	58	4/23	51	29	0
10	Tynemouth ...	8	17	6	0	64·2	0	4	27	0	51·3	73	22	54	10	58	4/23	48	21	0
11	Inchkeith ...	11	19	1	0	*	0	5	26	0	*	69	9	51	10	54	4,9,14,23,24,28,30	46	20	0
12	Renfrew ...	2	27	2	0	*	0	7	24	0	*	71	9	58	10	55	4,12,22,30	43	6/20	0
	Eskdalemuir ...	11	19	1	0	*	0	13	18	0	*	70	9	56	29	53	4	43	21	0
13B	Stornoway ...	17	14	0	0	60·2	0	10	21	0	46·9	63	18	54	10	54	23/26/28	45	14/21	*
15	Aberdeen ...	11	19	1	0	63·1	0	7	24	0	50·2	73	22	56	11	57	9	45	3	0
19	Dublin ... (Phœnix Park)	1	26	4	0	66·2	0	11	20	0	50·5	70	11/12	59	7	56	11/22	47	29	0
	Birr Castle ...	2	27	2	0	66·3	0	8	23	0	51·3	72	10	56	7	57	22	46	6	0
20	Valentia ... (Cahirciveen)	2	28	1	0	63·8	0	3	28	0	53·8	69	11	57	7	57	22	43	9	0

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.
1	6	21	0	0	29	1	3	27	0
	13	14	2	6	25	0	5	23	1
	5	24	0	2	29	0	6	22	0
	8	13	5	5	24	1	3	19	3
2	1	19	8	1	29	1	0	22	5
	1	21	1	1	29	0	0	25	1
	8	16	1	1	28	2	0	29	2
3	11	17	0	1	22	8	3	19	8
4	2	26	1	1	30	0	0	31	0
5	1	30	0	1	30	0	0	31	0
7	13	16	2	6	22	3	6	20	5
8	0	28	3	0	29	0	0	28	3
10	2	29	0	0	31	0	0	31	0
11	9	21	1	4	27	0	4	26	1
12	6	24	0	1	30	0	3	28	0
	12	18	0	3	28	0	11	20	0
13B	7	23	0	2	28	1	3	28	0
15	8	21	0	6	25	0	9	22	0
19	*	*	*	*	*	*	*	*	*
	10	27	0	0	31	0	0	31	0
20	10	21	0	6	25	0	7	24	0

FOG, MIST and GOOD VISIBILITY.

Number of observations within fixed limits.

	7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
1	0	0	0	0	20	0	0	0	0	30
	0	0	0	0	19	0	0	0	0	27
	0	0	0	0	26	0	0	0	1	28
	0	0	2	1	21	0	0	1	1	26
2	0	0	0	0	21	0	0	0	0	29
	0	0	0	0	15	0	0	0	0	16
	0	0	0	0	8	0	0	0	0	25
3	0	0	0	0	27	0	0	0	0	30
4	0	1	2	1	25	0	0	0	0	26
5	0	0	0	0	26	0	0	0	0	29
7	0	0	1	0	23	0	0	0	0	26
8	0	0	0	0	29	0	0	0	0	30
10	0	0	3	1	5	0	0	0	0	22
11	0	1	2	0	23	0	0	0	0	25
12	0	0	0	3	19	0	0	0	0	23
	0	0	0	1	23	0	0	0	0	28
13B	0	0	0	1	24	0	0	0	0	30
15	0	0	3	0	20	0	0	0	0	26
19	*	*	*	*	*	*	*	*	*	*
	0	0	0	0	29	0	0	0	0	30
20	0	0	0	1	28	0	0	0	0	30

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Normal Temperature. °F.	Duxford. Mean. °F.	Duxford. No. of Reports.	S. Farnborough. Mean. °F.	S. Farnborough. No. of Reports.	Worthy Down. Mean. °F.	Worthy Down. No. of Reports.
950	1830	53	54	37	56	19	56	2
850	4840	45	43	37	44	19	45	2
750	8180	36	35	37	36	17	33	2
650	11,920	25	25	37	26	12	31	1
550	16,170	11	11	37	14	8	–	–

UPPER WINDS.

No. of records of Velocity (m.p.h.) within fixed limits.

Station.	Renfrew. Height. Feet.	No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Holyhead. No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Plymouth (Mt. Batten). No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Lympne. No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Station. Height. Feet.
			miles per hour.						miles per hour.						miles per hour.						miles per hour.					
	2,000	37	8	26	2	1	–	61	9	37	15	–	–	35	2	23	10	–	–	73	12	41	20	–	–	2,000
	5,000	13	3	7	3	–	–	37	5	24	6	2	–	8	4	1	3	–	–	42	4	24	14	–	–	5,000
	10,000	3	1	2	–	–	–	10	2	6	2	–	–	1	1	–	–	–	–	7	1	3	3	–	–	10,000
	15,000	–	–	–	–	–	–	4	–	4	–	–	–	–	–	–	–	–	–	1	–	1	–	–	–	15,000

† The readings 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 normal values given above are based on extremes taken over the 24 hours.

METEOROLOGICAL OFFICE, AIR MINISTRY, Kingsway, London, W.C.2.

G. C. Simpson, C.B., D.Sc., F.R.S., Director

SUNSHINE, RAINFALL, AND HUMIDITY JULY, 1931.

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	12	6	9	3	14·8	3	1369	−106	151	−50	1880	334	'11	104	'88	18	2	8	1	2	0	24	25	651	+45	74	+19	1871	124	'80	4	'21	1	0
	Croydon ...	1	11	6	6	7	14·8	3	1420	*	169	*	1922	297	'28	132	'27	14	3	9	4	1	0	15	26	759	+80	70	+10	1921	100	'24	3	'21	1	0
	Calshot** ... (Southampton)	2	8	10	4	7	14·5	7	1612	*	165	*	1881	358	'11	116	'88	11	8	6	5	1	0	18	14	841	+195	80	+39	1871	157	'88	3	'11	0	0
	Lympne ...	0	9	9	5	8	14·5	9	1713	*	190	*	1921	304	'28	153	'27	15	4	6	6	0	0	12	14	780	+56	64	+10	1920	126	'27	8	'21	5	0
2	Shoeburyness	0	8	10	5	8	14·5	3	1725	*	185	*	1919	311	'28	128	'19	20	0	5	5	1	0	17	14	600	+120	68	+24	1920	81	'20	7	'21	3	0
	Gorleston ...	2	6	8	9	6	13·7	3	1550	−155	179	−52	1908	289	'11	103	'10	16	2	8	3	2	0	18	19	828	+206	92	+33	1871	150	'75	7	'97	3	0
	Cranwell ...	1	11	11	3	5	14·5	3	1461	−87	153	−48	1921	265	'28	137	'27	10	9	7	3	1	1	28	12	774	+184	95	+36	1917	124	'22	10	'21	4	0
3	Leafield ...	0	11	9	8	3	11·8	9	1433	*	146	*	1924	251	'28	114	'27	12	6	7	5	1	0	21	14	789	+95	83	+21	1924	112	'24	39	'29	3	0
4	Ross-on-Wye ...	2	10	12	4	3	11·3	1	1376	−110	131	−68	1915	256	'21	122	'27	13	3	8	5	1	1	28	15	833	+115	108	+51	1818	197	'72	6	'11	4	0
5	Falmouth ... (Observatory)	3	9	3	10	6	14·1	1	1472	−287	163	−62	1881	346	'11	135	'90	9	8	7	5	1	1	45	11	1407	+300	138	+66	1871	178	'24	8	'13	0	0
7	Holyhead ...	3	11	5	5	7	13·7	10	1361	−245	151	−51	1914	244	'17	123	'20	17	6	5	3	0	0	13	11	1046	+158	43	−23	1871	197	'20	13	'78	1	0
8	Liverpool ... (Bidston)	1	12	6	9	3	11·6	7	1276	−180	150	−43	1908	284	'11	126	'12	15	7	6	3	0	0	13	5	899	+190	54	−12	1867	191	'72	6	'68	3	0
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8	8	8	5	0	2	34	12	837	+216	120	+39	1915	140	'26	24	'19	2	0
11	Inchkeith** ...	5	12	6	7	1	11·1	30	1371	*	100	*	1923	212	'26	150	'30	9	2	11	9	0	0	14	9	809	+255	102	+44	1870	142	'16	13	'13	4	0
12	Renfrew ...	7	11	8	4	1	9·9	20	1049	*	86	*	1921	186	'26	105	'30	9	6	7	7	2	0	23	11	1178	+253	109	+38	1921	113	'30	45	'25	6	0
	Eskdalemuir ...	4	16	7	4	0	7·8	15	997	−218	78	−67	1910	199	'11	91	'20	4	8	9	9	0	1	27	3	1860	+431	146	+42	1910	202	'29	25	'13	3	0
13B	Stornoway ...	4	16	4	3	4	14·7	14	1139	−120	104	−41	1881	227	'17	79	'16	12	9	6	4	0	0	14	21	1350	+84	53	−24	1870	175	'71	22	'13	0	0
15	Aberdeen ...	4	18	2	6	1	9·2	14	1243	−144	83	−76	1881	239	'11	113	'12	10	3	13	5	0	0	11	30	1018	+270	74	+3	1871	150	'18	14	'78	1	0
19	Dublin ... (Phœnix Park)	2	16	7	5	1	9·5	4	1256	−251	93	−77	1881	235	'98	126	'83	9	3	11	7	1	0	18	6	957	+252	90	+22	1877	140	'15	19	'78	3	0
	Birr Castle ...	2	16	7	5	1	11·0	4	1122	−221	100	−44	1881	224	'11	94	'30	7	8	12	2	2	0	22	13	1038	+209	99	+24	1872	186	'80	8	'63	2	0
20	Valentia ... (Cahirciveen)	0	16	3	6	6	13·3	6	1177	−268	145	−14	1880	235	'18	77	'25	5	7	13	5	1	0	15	24	1597	+183	98	+2	1870	221	'73	22	'98	0	0

MINIMUM SURFACE HUMIDITY.

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

Stations.	90 to 100 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	10 to 19 %
London (Kew)	0	0	1	6	16	7	1	0	0
Ross-on-Wye	0	2	7	10	10	2	0	0	0
Falmouth (Obsy.)	3	6	9	10	3	0	0	0	0
Renfrew ...	0	5	7	14	4	1	0	0	0
Eskdalemuir	0	5	6	17	3	0	0	0	0
Aberdeen ...	4	2	8	9	7	1	0	0	0
Valentia ...	0	9	12	10	0	0	0	0	0

STATE OF GROUND AT 18h.

No. of Days each type was recorded.

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)	16	15	0	0	0	0	0	0	0	0
Ross-on-Wye	11	20	0	0	0	0	0	0	0	0
Renfrew ...	2	28	1	0	0	0	0	0	0	0
Eskdalemuir	0	31	0	0	0	0	0	0	0	0
Aberdeen ...	13	18	0	0	0	0	0	0	0	0
Valentia ...	7	24	0	0	0	0	0	0	0	0

CODE for State of Ground.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

** In extremes of rainfall the short period returns from Inchkeith are supplemented by those from Leith, and extremes of rainfall and sunshine from Calshot by those from Southampton.

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

PRESSURE: ICELAND TO GULF OF LIONS JULY, 1931

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. Stationery Office Press, Kingsway W.C.2.

Pa. 338/2298. We. 71. D.6005. Gp.908 980. 8/31

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 1st July 1931.

No. 25.423

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1023·4	-20	-	0	c	68	45	7	1	-	1	4-6	7-8	4000
	Croydon	1023·8	-10	-	0	c	70	55	7	8	-	6	4-6	7-8	4000
	S. Farnborough	1023·1	-16	SSE	1	c	68	55	7	2	-	1	7-8	7-8	2500
	Winchester	1023·3	-14	SE	2	c	67	55	8	1	-	1	4-6	7-8	4000
	Boscombe Down	1023·4	-12	E	2	c	66	55	7	2	2	4	7-8	7-8	4000
	Calshot, S'thmtn	1023·9	-10	ESE	4	bc	66	55	8	2	-	1	1	2-3	4000
	Dungeness	*	*	E	2	c	*	*	7	-	7	*	0	7-8	-
	Lympne	1024·0	-14	ESE	3	bc	64	45	8	4	-	1	2-3	4-6	4000
2	Shoeburyness	1024·0	-10	ESE	4	bc	64	75	7	4	-	1	2-3	4-6	4000
	Felixstowe	1024·7	-10	SE	3	bc	63	65	8	1	-	9	2-3	4-6	4000
	Gorleston	1024·1	-8	SSE	5	c	59	85	7	1	-	7	1	7-8	4000
	Cranwell	1024·2	-10	WSW	1	c	65	55	8	1	-	6	2-3	9	4000
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1023·9	-8	-	0	bc	62	55	6	-	1	-	0	9	-
	Upper Heyford	1023·8	-14	-	0	bc	67	55	6	1	-	8	4-6	4-6	4000
	Leafield	1023·3	-8	ENE	1	c	67	55	8	1	3	4	4-6	7-8	4000
4	Ross-on-Wye	1023·2	-12	ESE	2	c	68	55	7	1	9	9	2-3	7-8	4000
5	Portland Bill	1023·4	-6	E'N	4	bc	61	85	7	2	8	2	2-3	4-6	2500
	Plymouth	1022·9	-10	SW	3	bc	65	75	7	1	-	1	1	2-3	4000
	Falmouth	1025·4	-4	SE'E	2	bc	63	85	7	1	-	8	2-3	4-6	4000
	Scilly (St. Mary's)	1024·0	-4	NNE	3	bc	61	75	8	7	4	3	1	2-3	4000
	Guernsey	1022·7	-6	NNE	2	b	64	75	6	-	-	-	0	0	-
6	Pembroke	1024·8	-4	NW	1	c	59	75	7	5	8	-	7-8	9+	2500
7	Holyhead	1023·7	-10	S'W	2	c	61	65	8	1	7	2	Tr.	9+	4000
	Chester (Sealand)	1023·8	-14	-	0	c	65	55	7	7	-	-	9	9	4000
8	L'pool (Bidston)	1023·8	-2	NWN	2	c	62	45	9	-	3	8	0	7-8	-
9	Harrogate	1024·0	-10	S	1	c	61	55	9	5	-	-	9	9	4000
10	Spurn Head	1024·4	0	NE	2	bc	60	75	7	1	-	1	2-3	4-6	4000
	Tynemouth	1023·1	-4	WNW	2	bc	60	55	7	2	-	-	4-6	4-6	2500
11	Inchkeith	1023·6	-8	SW	2	bc	57	75	8	1	4	-	4-6	4-6	5700
	Leuchars	1022·1	-12	SSW	2	c	62	55	9	7	3	9	4-6	7-8	4000
12	Renfrew	1023·4	-10	W	2	c	56	65	8	5	7	-	9+	10	4000
	Eskdalemuir	1023·3	-8	W'S	2	c	56	65	9	8	-	1	9+	9+	2600
13a	Tiree	1021·0	-4	S'W	4	c	57	85	8	5	1	-	2-3	7-8	1500
13b	Stornoway	1021·3	-4	SW	2	c	56	65	8	7	7	-	4-6	7-8	2500
15	Dalwhinnie	1020·2	-6	S	1	c	56	55	8	1	5	-	2-3	10	4000
	Aberdeen	1022·4	-6	SSE	4	bc	59	65	8	3	9	-	2-3	4-6	2500
	Wick	1022·0	-4	SSE	1	c/pr	53	85	8	8	4	-	4-6	7-8	2500
16	Lerwick	1020·5	+2	W	1	bc	55	65	8	8	-	1	4-6	4-6	1500
17	Blacksod Point	1021·0	-10	S	4	DD	57	95	6	6	-	-	10	10	<150
18	Malin Head	1021·8	-12	S	3	c	58	75	8	5	7	-	2-3	9+	4000
	Aldergrove	1023·6	-10	SW	2	r_0r_0	54	85	7	5	1	-	7-8	10	800
	Donaghadee	1023·8	-10	SW	1	i_0d_0	54	85	7	5	-	-	9	9	800
19	Birr Castle	1023·2	-12	SW	1	c	58	75	8	5	2	-	7-8	10	2500
20	Valentia Obsy.	1023·6	-10	S'E	3	c/r	56	95	8	5	-	-	10	10	1500
	Roches Point	1024·2	-6	SW	3	rr	56	85	7	6	-	-	10	10	1500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1021·3	-12	E'S	2	c	68	55	6	7	-	-	9+	9+	4000	0	*
	Croydon	1021·8	-8	SE	3	c	66	55	6	7	-	5	7-8	9	4000	0	*
	S. Farnborough	1021·0	-10	SW'S	2	bc	67	55	7	5	-	1	2-3	2-3	5700	0	*
	Winchester	1021·3	-10	S	3	bc	65	55	7	-	-	1	0	2-3	-	0	*
	Boscombe Down	1021·5	-10	S	3	b	66	65	7	1	-	-	1	1	4000	0	*
	Calshot, S'thmtn	1021·9	-10	ESE	2	b	64	65	8	-	-	-	0	0	-	0	2
	Dungeness	*	*	E	2	bc	*	*	7	-	-	*	0	2-3	-	*	0
	Lympne	1022·2	-10	E	3	b	61	45	8	-	-	1	0	1	-	0	*
2	Shoeburyness	1022·5	-6	SE	2	c	61	75	7	1	-	-	7-8	7-8	7200	0	*
	Felixstowe	1023·2	-6	SE	3	c	61	55	9	-	-	9	0	7-8	-	0	1
	Gorleston	1023·1	-4	SSE	3	c	59	75	7	3	3	-	4-6	7-8	2500	0	3
	Cranwell	1022·1	-10	SE'E	3	c	62	75	7	-	7	8	0	9+	-	0	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1021·7	-12	ENE	1	bc	64	55	6	-	3	-	0	4-6	-	0	*
	Upper Heyford	1021·6	-10	-	0	c	67	55	6	1	-	6	Tr.	7-8	4000	0	*
	Leafield	1021·4	-10	ENE	1	c	64	65	8	1	-	6	1	7-8	4000	0	*
4	Ross-on-Wye	1021·1	-16	ESE	2	c	67	55	6	-	9	9	0	9	-	0	*
5	Portland Bill	1021·6	-16	E	3	bc	60	75	8	1	-	-	2-3	2-3	2500	0	2
	Plymouth	1021·7	-6	SW	2	b	62	75	7	1	-	1	Tr.	1	4000	0	1
	Falmouth	1022·8	-4	N'W	3	bc	63	85	7	1	-	9	2-3	4-6	5700	0	1
	Scilly (St. Mary's)	1022·3	-8	NNE	4	c	59	85	8	5	-	8	2-3	7-8	4000	0	1
	Guernsey	1020·7	-16	NNE	2	b	60	85	7	-	-	-	0	0	-	0	2
6	Pembroke	1022·0	-6	NNW	3	c	58	75	7	5	7	-	4-6	9+	4000	0	1
7	Holyhead	1022·4	-8	SWW	1	$i r_0$	56	65	7	6	2	-	Tr.	9+	2500	0	0
	Chester (Sealand)	1022·6	-4	NW	2	c	61	65	7	-	7	-	0	9+	-	0	*
8	L'pool (Bidston)	1022·5	-4	N	1	c	58	65	8	-	2	8	0	10	-	0	*
9	Harrogate	1022·4	-6	SSW	1	c	60	55	8	-	7	-	0	9+	-	0	*
10	Spurn Head	1022·7	-2	SE'E	2	c	56	95	6	5	2	-	4-6	9+	2500	0	1
	Tynemouth	1021·7	-8	SSE	2	c	55	75	7	4	-	-	7-8	7-8	4000	0	1
11	Inchkeith	1022·7	-8	WSW	3	c	59	75	7	5	8	-	4-6	7-8	800	0	1
	Leuchars	1020·6	-6	SW	3	c	62	55	8	7	9	9	4-6	9	4000	0	*
12	Renfrew	1021·9	-6	WSW	3	c	57	65	7	5	7	-	4-6	9+	4000	0	*
	Eskdalemuir	1022·4	-4	SW	3	r_0r_0	52	85	6	6	2	-	4-6	10	1500	1	*
13a	Tiree	1019·8	-16	S'E	4	id	53	85	7	6	2	-	4-6	10	1500	1	2
13b	Stornoway	1019·9	-4	SSW	3	r	53	85	7	5	1	-	7-8	10	2500	1	2
15	Dalwhinnie	1022·3	-6	SE	1	c	54	65	8	1	5	-	7-8	10	5700	0	*
	Aberdeen	1021·1	-10	SSE	2	bc	57	65	7	7	3	-	1	4-6	4000	0	1
	Wick	1021·3	-4	SE	1	c/pr	52	85	8	9	3	8	4-6	7-8	1500	1	1
16	Lerwick	1019·9	-8	W'S	1	bc	53	65	8	2	-	1	4-6	4-6	2500	0	*
17	Blacksod Point	1018·8	-8	W	3	c	58	95	7	5	8	-	4-6	9+	800	1	3
18	Malin Head	1019·6	-14	S	3	c/d	57	95	7	6	1	-	7-8	9+	1500	0	1
	Aldergrove	1021·2	-16	S	2	c	58	75	9	5	-	-	9+	9+	1500	1	*
	Donaghadee	1022·1	-6	S	2	c	54	85	7	5	-	-	9	9	800	0	1
19	Birr Castle	1021·6	-8	SW	1	c	58	85	7	5	2	-	2-3	10	1500	1	*
20	Valentia Obsy.	1021·9	-10	S'W	3	c/r	56	95	6	5	-	-	10	10	800	1	4
	Roches Point	1021·3	-10	W	3	r_0r_0	57	85	8	6	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

Stations. (For heights see p. 4.)	Weather. 7h.–13h. 30th (37)	Weather. 13h.–18h. 30th (38)	Weather. 18h. 30th to 1h. 1st (39)	Weather. 1h.–7h. 1st (40)
London (Kew)	cbbcy	cy3o	bcbm$_0$	bm$_0$w
Croydon	b3obc	c3oy	cb3ow	bewbm$_0$
S. Farnborough	bc3obc	bccbc	bcbbc	bcbwm$_0$
Winchester	ccy	bcyby	bw	b
Boscombe Down	cbc3o	cbc	bccm$_0$	bcbm$_0$
Calshot, S'thmtn	bcm$_0$	bcb	bbw	bcbm$_0$
Dungeness	bc	bc	*	bcc
Lympne	bcy.	bcby	bw	bbc
Shoeburyness	bc	bcc	bcc	bcc
Felixstowe	bccybc	bcvy	cvybw	c
Gorleston	cbcq	cbcc	cbc	bcc
Cranwell	bcm$_0$cy.	cy.	cm$_0$	cm$_0$r$_0$
Cardington	*	*	*	bc
Birmingham	bcc	cbc3	bcc	c
Upper Heyford	bc3oy.	bc3oy.	c3o	cbcm$_0$w
Leafield	bc	bcc	bc	bccw
Ross-on-Wye	cbcc	cy3o	c3bc	cmbw3
Portland Bill	cbcbc	bc, bc	bcc	cbcbb
Plymouth	bbc	cbcb	bbco	bw3o
Falmouth	bc	bc3o	bc3o	bc3o
Scilly (St. Mary's)	bc	bcc	cbcb	bbc
Guernsey	b3o	b	bcw	bcwb3
Pembroke	bcc	bcc	cbc	bc
Holyhead	c	c	ir$_0$c	c
Chester (Sealand)	cy	cy	cbc	bcmm$_0$
L'pool (Bidston)	cbccv3	cvycc	or$_0$o	o
Harrogate	bcc	c	c$_0$	cr$_0$c
Spurn Head	bc	bcc	bc	c$_0$
Tynemouth	bc	bc	oir$_0$	oir$_0$m
Inchkeith	cbc	bcc	c	c
Leuchars	ccy	cy	cybcc	cw
Renfrew	c	cr$_0$yc	c	ccm$_0$r$_0$
Eskdalemuir	cwc	ccr$_0$r$_0$	or$_0$c	c
Tiree	c	coid$_0$	od	orrdm
Stornoway	cpor	c	ir rr	oid$_0$
Aberdeen	bc	c		r
Wick	cbc	bc	bcc	cr$_0$r$_0$
Lerwick	bcprc	cpr.	c	cr$_0$rc
Blacksod Point	bc	bc	cpr$_0$	cm$_0$
Malin Head	dd	id	id	id
Aldergrove	c	c	cp$_0$c	cim$_0$Dr
Donaghadee	cir$_0$r$_0$r$_0$	cr$_0$r$_0$xc	c	rrm$_0$
Birr Castle	cid$_0$	cid$_0$c	c	c
Valentia Obsy.	or$_0$r$_0$c	crc	crc	c
Roches Point	crr$_0$r$_0$r$_0$	cir$_0$?	irddrrc	c
	bccrr	rrir$_0$	ir$_0$c	cid$_0$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.
f$_s$, fog over sea (coast station).
f$_g$, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_c$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_c$/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).
⊕, Solar halo. ◐, lunar halo.
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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

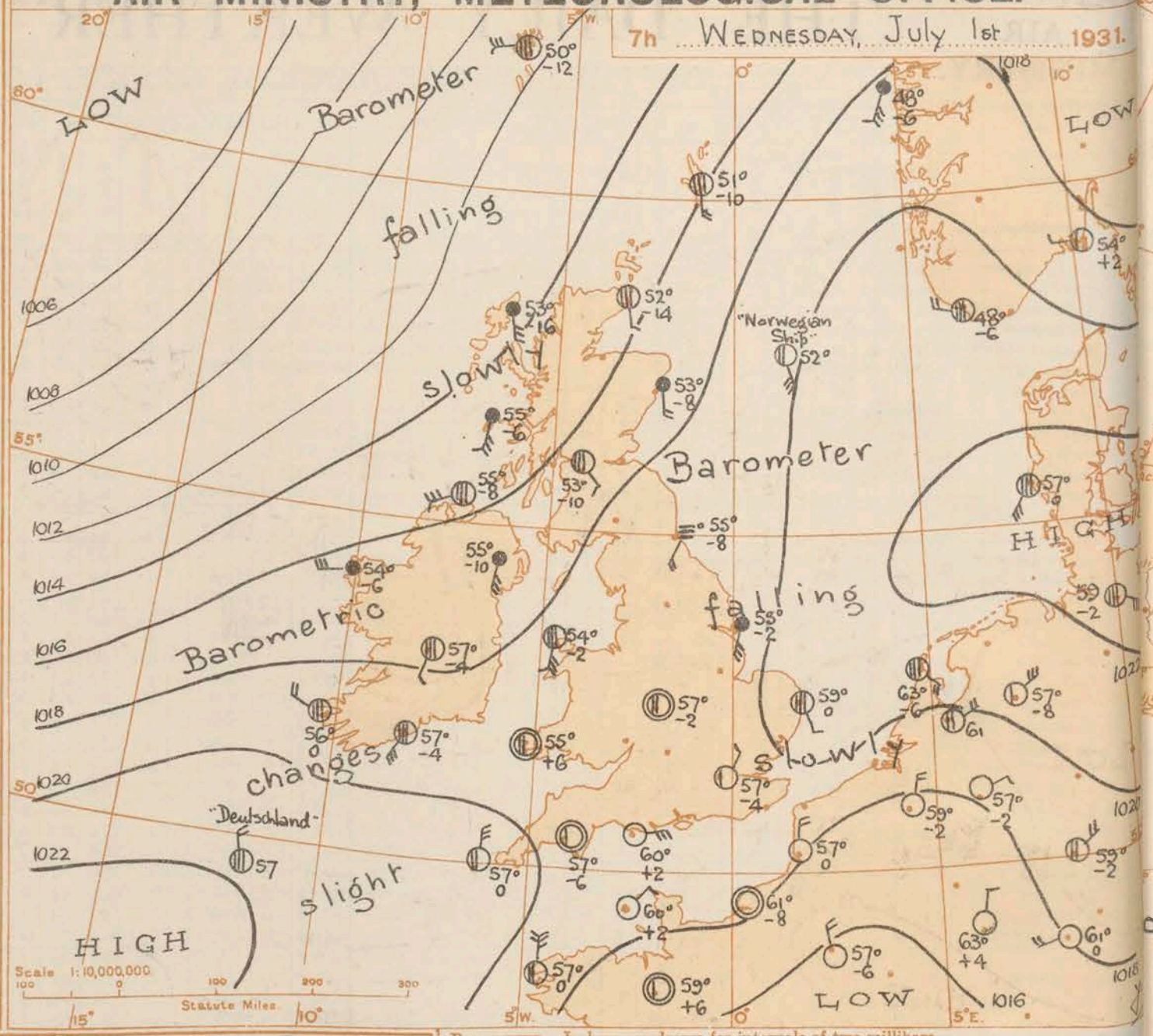
COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

REPORTS from HEALTH RESORTS for 30th June 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 29th to 9h. 30th	Temperature. Max. 9h.—17h. 30th	Rainfall. Night. 17h. 29th to 9h. 30th	Rainfall. Day. 9h.—17h. 30th	Sunshine. Sunrise to 17h. 30th	Sunshine. Sunrise to Sunset. 29th
1	Tunbridge W.	bc	bc	46	71	-	-	8·6	10·5
	Bournemouth	bcb	b	48	70	-	-	9·8	11·1
	Ventnor ...	bzb	b	55	66	-	-	11·2	10·4
	Southsea ...	b	b	53	67	-	-	11·5	11·1
	Bognor Regis	b	b	53	67	-	-	10·9	11·2
	Littlehampton	bc	bc	50	65	-	-	11·0	11·1
	Worthing ...	b	b	51	64	-	-	11·0	10·8
	Brighton ...	b	b	50	65	-	-	10·7	8·9
	Eastbourne†	b	b	51	65	-	-	10·6	10·0
	Hastings† ...	bbcb	b	53	66	-	-	9·9	9·7
	Folkestone ...	b	bbcb	49	67	-	-	10·1	9·2
	Dover... ...	yb	by	50	66	-	-	10·9	9·2
	Deal	b	b	50	67	-	-	10·5	9·7
	Ramsgate ...	b	b	56	67	-	-	10·3	12·9
	Margate ...	b	b	54	65	-	-	10·6	12·6
2	Southend ...	bbc	bbcc	55	68	-	-	10·8	12·3
	Maldon ...	b	bbc	47	70	-	-	8·0	12·1
	Clacton-on-Sea	bc	bc	57	64	-	-	~~11·4~~ 10·4	14·6
	Dovercourt ...								
	Lowestoft ...	bcic	bcbc	50	63	-	-	10·4	14·6
	Skegness ...	b	bco	48	61	-	-	8·4	15·2
	Mablethorpe	bcb	bcco	45	61	-	-	10·2	14·3
	Cleethorpes...	by	bco	48	62	-	-	10·3	12·9
3	Leamington S.	bc	bc	45	69	-	-	10·7	14·2
4	Cheltenham†	ybcc	bccbc	48	71	-	-	6·1	12·0
5	Bath	bcb	bcc	50	72	-	-	7·9	13·4
	Weymouth ...	by	by	53	65	-	-	10·5	14·1
	Jersey ...	bc	bcb	55	73	-	-	11·5	7·0
	Torquay ...	bzb	b	50	66	-	-	11·0	14·1
	Penzance ...	b	b	54	69	-	-	11·1	13·6
	St. Ives ...	b	b	53	62	-	-	11·8	12·5
	Bude	cbcb	bbc	41	63	-	-	11·0	11·8
	Ilfracombe ...	b	bbc	50	64	-	-	9·1	11·5
6	Aberystwyth	bcc	c	45	62	-	-	4·7	14·4
7	Llandudno ...	bcc	cob	45	63	-	Trace	5·8	15·4
	Colwyn Bay...	bbc	bcco	45	61	-	-	6·5	14·0
	Rhyl	bbc	bcc	42	64	-	-	6·4	15·4
8	Wallasey ...	bcb	bbcc	50	63	-	-	5·1	15·2
	Southport‖ ...	cbc	bcco	51	62	-	-	5·0	15·0
	Blackpool ...	cbc	co	51	63	-	-	6·1	14·6
	Morecambe ...	bcbbc	bbcb	50	62	-	-	5·8	15·0
9	Ilkley... ...	bcc	bcc	43	66	-	-	5·3	14·0
10	Berwick-on-T.	bcc	cbco	44	57	-	-	12·1	12·6
11	Dunbar ...	cbc	bcmo	45	61	Trace	-	3·8	13·9
12	Douglas ...	bccb	cdoc	46	60	-	Trace	6·0	13·2

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



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 1st July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Light or moderate variable winds becoming moderate southwesterly; fair today, less settled tomorrow; a chance of local thunderstorms; warm.
4. W. Midlands 5. S.W. England 6. South Wales	Winds becoming moderate westerly to southwesterly; cloud increasing; some rain perhaps later with a chance of thunder; warm.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate or fresh southerly to southwesterly winds; cloudy with some rain and perhaps thunder; rather warm, becoming a little cooler.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh southwesterly or westerly winds; cloudy, some rain and showers, local thunder perhaps; moderate temperature.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, -⊙
Temperature is given in degrees F.
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. ₹ Thunderstorm.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature

GENERAL INFERENCE.

A large depression centred south of Iceland is likely to move eastward together with associated secondaries. Weather will become unsettled generally with some rain but will remain fair today in Southeast England. Thunderstorms are expected locally

FURTHER OUTLOOK.

Rather unsettled generally.

Forecasts issued at 0910 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2. Pp 301/2281 (m.75) 8/31

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

Morning of
WEDNESDAY,
1st JULY
1931.

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

Clarke's Projection Scale 1.4 × 10⁷ along meridian at 55°N

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.
○ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 1st July 1931.

No. 25·423

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1021·3	-6	-	0	bc	50	85	7	-	-	9	0	2·3	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	10209	-6	NNE	2	bc	57	75	7	-	5	4	0	4·6	-
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1021·0	-10	ENE	3	b	47	95	7	-	-	9	0	1	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1021·5	-12	SE'S	2	bc	57	85	7	-	7	-	0	2·3	-
	Cranwell ...	240	1021·0	-10	SSE	2	c	52	95	6	5	-	8	7·8	9+	5700
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1020·3	-6	E	3	c	58	65	7	4	7	-	4·6	4·8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1021·4	-4	NW	3	bc	55	95	6	5	-	-	2·3	2·3	4000
	Scilly(St.Mary's)	163	1021·7	0	NE	3	b	54	95	8	-	-	-	0	0	-
	Guernsey ...	175	1019·7	-12	-	0	bc	54	85	7	-	7	8	0	4·6	-
6	Pembroke ...	142	1020·5	-6	-	0	bc	52	85	8	-	5	-	0	2·3	-
7	Holyhead ...	26	1019·9	-12	-	0	c	54	85	7	5	-	-	9+	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1021·2	-4	SEE	1	c	56	95	7	5	2	-	7·8	9	4000
	Tynemouth ...	67	1020·4	-12	SW	1	clr	53	85	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1020·2	-8	WSW	2	c	52	95	8	5	-	-	9	9	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1016·7	-14	SSE	3	rr	50	95	6	6	-	-	10	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1018·5	-10	SE	1	c	50	95	8	8	7	8	4·6	7·8	2500
16	Lerwick ...	54	1018·3	-6	WS	1	c	50	95	8	9	-	-	9	9	1500
17	Blacksod Point	18	1017·9	-4	W	3	id	55	95	7	6	-	-	10	10	4150
18	Malin Head ...	52	1016·8	-18	S	4	c	56	95	7	5	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1021·0	-4	SW	1	c	56	85	8	4	-	-	7·8	7·8	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	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)
1019·5	-6	-	0	b	59	75	5	-	-	-	0	0	-	0	*
1019·9	-4	NE	1	c	57	75	6	1	3	-	Tr	1	4000	0	*
1018·5	-14	-	0	c	56	75	6	-	-	-	0	0	-	0	*
1019·6	-4	NE	1	c	56	75	6	-	-	-	0	0	-	0	*
1019·2	-10	-	0	c	56	85	6	-	-	-	0	0	-	0	*
1019·5	-4	NNW	2	c	57	75	6	-	-	-	0	0	-	0	0
*	*	NE	3	c	*	*	*	-	7	*	0	7-8	-	*	-
1019·1	-6	NE'N	3	bc	58	85	7	-	8	-	0	4-6	-	0	*
1019·8	0	ENE	1	bc	60	85	8	1	4	9	2·3	4·6	5700	0	*
1020·4	-2	N	1	c	56	95	8	-	3	9	0	7·8	-	0	0
1020·0	0	SSE	1	c	59	85	6	4	7	-	4·6	7-8	4000	0	2
1019·1	-8	SE	1	clr	53	95	6	5	2	-	7-8	10	5700	0	*
1019·5	-2	SSW	1	c	58	75	6	8	-	-	9+	9+	4000	*	*
1019·3	-2	-	0	bc	57	85	6	-	3	1	0	4-6	-	0	*
1019·5	-6	SSW	3	bc	58	85	6	-	3	-	0	2·3	-	0	*
1019·4	-2	SW'S	2	bc	58	85	7	-	3	1	0	2·3	-	0	*
1019·1	-6	SW'S	2	bc	59	85	6	-	-	2	0	2·3	-		*
1019·3	+2	E	3	b	60	75	7	-	-	-	0	0	-	0	2
1019·7	-6	-	0	b	57	75	6	-	-	1	0	Tr	-	0	0
1020·8	-2	N	3	bc	55	85	7	1	3	-	1	2·3	4000	0	1
1020·9	0	N	3	bc	57	95	7	1	-	-	2·3	2·3	4000	0	1
1018·8	+2	NE	3	c	60	85	6	-	-	-	0	0	-	0	1
1019·7	+6	-	0	bc	55	95	7	2	4	9	2·3	4·6	2500	0	1
1018·3	-2	S'W	4	c	54	95	8	5	3	-	7·8	9+	4000	0	0
1018·8	-2	-	0	c	56	85	7	5	3	-	2·3	9	4000	0	*
1018·6	-4	SW'W	2	c	56	85	7	5	3	-	4·6	9+	2500	0	*
1019·0	-6	S'E	1	c	55	85	5	5	1	-	4-6	9+	2300	1	*
1019·3	-2	S'W	3	c	55	95	7	6	3	-	4-6	9+	4000	1	2
1018·2	-8	SW	2	clr	55	85	4	6	-	-	10	10	1800	0	1
1017·8	-4	-	0	c	53	85	7	5	-	-	9+	9+	2500	0	0
1016·9	-8	SSW	2	c	54	85	7	5	2	-	7·8	10	2500	0	*
1017·2	-10	SE	1	c	53	95	6	5	-	-	10	10	800	0	*
1018·3	-4	SW'W	3	c	50	85	8	5	2	-	2·3	10	800	1	*
1014·2	-6	SSW	4	d	55	95	7	6	2	-	7·8	10	800	1	2
1012·3	-6	SSE	3	id	53	95	6	5	-	-	10	10	800	2	2
1015·1	-6	SW	3	c	50	85	6	3	-	-	7·8	10	450	1	*
1016·4	-8	S	2	clr	53	85	6	6	7	-	4·6	9+	2500	1	1
1015·3	-14	S	1	c	52	95	8	8	2	-	4·6	7·8	2500	1	1
1015·9	-10	S	2	c	51	95	6	5	-	-	9+	9+	450	0	*
1017·3	-6	W'S	3	DD	54	95	7	6	-	-	10	10	4150	1	2
1015·0	-8	WSW	4	c/d	55	95	5	5	1	-	9	9+	800	1	1
1016·9	-10	S'E	3	clr	55	95	6	5	-	-	10	10	800	1	*
1016·5	-16	S	2	c	55	95	7	5	-	-	9	9	800	0	1
1017·9	-4	SW	1	c	57	95	8	8	-	-	10	10	2500	1	*
1019·6	0	NW	2	c	56	95	8	5	-	-	9+	9+	1500	1	2
1019·2	-4	SW	3	c	57	95	8	5	-	-	9+	9+	1500	1	2

PAST 24 HOURS.

Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 30th Hrs. (36)
71	52	44	-	-	7·3
71	48	47	-	-	8·1
72	47	38	-	-	10·8
71	48	41	-	-	11·4
68	48	40	-	-	*
67	53	47	-	-	12·8
67	52	*	-	-	*
64	46	43	-	-	12·4
67	48	39	-	-	(12·3
64	48	45	-	-	11·4
61	56	50	-	-	7·5
67	50	48	-	Tr	8·3
*	*	*	*	*	*
64	55	51	-	-	5·7
69	53	47	-	-	*
68	52	42	-	-	9·1
70	51	47	-	-	8·8
64	55	*	-	-	*
68	43	43	-	-	13·0
65	53	*	-	-	12·5
62	52	*	-	-	12·1
65	54	50	-	-	14·2
61	51	*	-	-	2·6
63	50	44	Tr.	0·1	4·1
67	52	50	-	-	5·4
62	54	50	-	Tr	5·3
63	51	51	-	Tr	4·1
61	55	*	-	Tr	10·1
64	52	51	-	0·5	*
59	51	49	-	-	4·3
63	51	47	-	-	5·1
60	51	50	Tr.	Tr.	0·1
57	47	48	0·3	1	0·1
58	51	50	Tr.	7	0·1
58	49	*	Tr.	4	1·1
55	47	36	-	2	8·2
60	52	50	-	0·5	6·7
54	48	*	2	1	*
57	49	*	-	Tr	12·1
58	53	*	2	1	*
58	53	*	Tr.	1	0·1
59	53	47	0·5	1	1·1
59	52	*	1	-	*
58	54	49	2	0·1	0·1
57	55	53	5	2	0·1
58	55	*	6	3	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cbbcy	cy3o	bcbm3w	71	52	44	-	-	7·3	*	*	6
Croydon	217	b3bc	c3y	cb3wbm	71	48	47	-	-	8·1	*	*	6
Greenwich (Royal Observatory) ...	149	bcy3	cy3	cby	71	47	35	-	-	5·6	48	52	5
City (Bunhill Row)	—									5·1	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	69	55	49	-	-	5·3	45	53	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	6·5	*	*	*
Camden Square	110	bbc	c	*	71	52	49	-	-	*	At 18h.	57	*
Kensington	80	b3.	bbc3	*	71	52	43	-	-	7·5	—	59	*
Hampstead Observatory	450	bc	bc	*	69	51	39	-	-	7·1	*	55	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 30th June. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 1st July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1018·1	NNE	2	b	73	1016·7	NNW	2	b	57
Brussels	1020·8	ENE	3	b	66	1017·9	ENE	2	b	59
Berlin	1021·5	NNE	3	bc	50	1022·4	-	0	b	63
Zürich	1017·1	NNE	1	bc	79	1017·1	ESE	1	0	63
Rome	1014·6	NE	2	c	77					

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1·0	6h 1st	0·3	10-12h and 20-24h 30th

Kew Observatory. Max.	Time.	Min.	Time.
0·3	6h 1st	<0·1	15h 30th

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
75	52	-	-
70	48	-	-
68	50	-	-
86	59	-	-
91		0·2	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 2nd. July 1931.

No. 25.424.

Diffalor.	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 1st July: Barom. at M.S.L. mb. (1)	Change in 3 hours. (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)	1017·3	-18	S	1	bc	71	45	6	1	–	–	4-6	4-6	4000
	Croydon	1017·5	-14	–	0	c	70	45	6	8	–	–	7-8	7-8	4000
	S. Farnborough	1016·9	-18	W	2	bc	73	45	7	1	–	–	4-6	4-6	4000
	Winchester	1017·1	-18	W	1	bc	72	55	8	2	–	–	2-3	2-3	4000
	Boscombe Down	1017·5	-18	WSW	2	bc	70	55	7	1	–	–	4-6	4-6	2500
	Calshot, S'thmtn	1017·7	-16	SSE	2	b	69	65	7	2	–	–	4-6	4-6	4000
	Dungeness	*	*	E	2	bc	*	*	7	1	7	*	2-3	4-6	4000
	Lympne	1017·2	-14	ESE	3	bc	68	55	8	1	–	9	1	2-3	4000
2	Shoeburyness	1017·8	-14	ESE	2	bc	67	65	8	1	6	–	Tr.	4-6	4000
	Felixstowe	1018·1	-14	ESE	2	bc	66	65	9	–	–	9	0	4-6	–
	Gorleston	1018·3	-8	SE'S	3	c	62	85	7	1	–	7	1	7-8	4000
	Cranwell	1015·9	-22	SW'S	2	c	69	65	6	3	3	–	7-8	9+	4000
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1016·7	-10	WSW	3	c	68	55	8	1	–	–	7-8	7-8	2500
	Upper Heyford	1016·6	-18	W	3	c	69	55	7	2	–	–	7-8	7-8	4000
	Leafield	1016·8	-10	W'S	3	bc	70	55	8	1	4	1	2-3	4-6	5700
4	Ross-on-Wye	1016·8	-12	WNW	2	c	70	55	7	2	–	1	7-8	7-8	4000
5	Portland Bill	1018·2	-8	E	2	b	63	75	6	–	–	–	0	0	–
	Plymouth	1018·6	-8	SSW	3	b	65	75	7	1	–	1	Tr.	Tr.	4000
	Falmouth	1019·8	-4	N'E	2	bc	65	65	8	1	3	4	2-3	4-6	4000
	Scilly (St. Mary's)	1020·1	-8	NNW	3	bc	65	65	7	1	–	4	2-3	4-6	4000
	Guernsey	1018·5	-2	NE	1	bc	65	65	7	–	–	8	0	2-3	–
6	Pembroke	1018·6	-8	SW	2	c	62	85	8	7	8	4	2-3	7-8	2500
7	Holyhead	1016·2	-18	S'W	4	c/r	60	85	7	8	–	3	7-8	9	4000
	Chester (Sealand)	1016·6	-12	NW	2	c	62	65	8	5	–	–	9+	9+	4000
8	L'pool (Bidston)	1016·7	-6	WNW	3	c	60	75	9	8	–	–	9	9	4000
9	Harrogate	1015·5	-14	S'E	1	c	63	75	5	9	–	–	9	9	2500
10	Spurn Head	1017·4	-4	SE	1	c	61	85	6	4	2	–	7-8	9+	4000
	Tynemouth	1014·8	-16	SE	1	c	59	85	7	9	–	–	7-8	7-8	2500
11	Inchkeith	1014·1	-12	SSW	1	c	57	85	8	8	–	–	9+	9+	2500
	Leuchars	1013·5	-16	SSW	3	c	62	75	7	8	7	–	7-8	9+	2500
12	Renfrew	1013·4	-22	SW	3	c	59	85	7	8	2	–	9+	10	1500
	Eskdalemuir	1014·5	-20	SW	4	c/d	55	95	8	5	1	–	9	10	1500
13A	Tiree	1011·4	-18	SSW	4	c	56	95	7	5	2	–	4-6	10	1500
13B	Stornoway	1009·3	-20	S	4	c	56	95	8	4	2	–	4-6	9+	2500
15	Dalwhinnie	1009·8	-16	SW	3	c	54	75	5	3	–	–	8/10	8/10	<150
	Aberdeen	1013·1	-18	SSW	3	bc	61	65	8	7	3	1	4-6	4-6	2500
	Wick	1010·9	-20	SSE	2	c	54	85	8	8	7	8	4-6	9	2500
16	Lerwick	1012·3	-20	S'E	3	c	54	85	6	5	2	–	4-6	10	450
17	Blacksod Point	1015·4	-4	W	3	DD	55	95	6	6	–	–	10	10	<150
18	Malin Head	1012·9	-14	WSW	4	c/d	56	95	7	8	1	–	7-8	9+	1500
	Aldergrove	1014·3	-14	SW	3	c	60	75	8	7	7	–	2-3	9+	1500
	Donaghadee	1014·0	-12	WSW	2	c	62	75	8	5	–	–	9+	9+	1500
19	Birr Castle	1016·2	-6	SW	3	c	60	75	8	5	2	–	9	10	2500
20	Valentia Obsy.	1018·5	-6	W'S	4	jp	58	85	9	8	–	1	7-8	7-8	1500
	Roches Point	1017·5	-10	SW	3	c	60	95	8	3	–	9	4-6	7-8	1500

Diffalor.	Stations.	OBSERVATIONS at 18h. G.M.T. 1st July: Barom. at M.S.L. mb. (15)	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)	Sun. 0-9 (30)
1	London (Kew)	1015·2	-10	W	3	c	72	45	6	1	–	–	7-8	7-8	4000	0	*
	Croydon	1015·8	-8	WSW	2	bc	71	55	6	8	–	6	4-6	4-6	5700	0	*
	S. Farnborough	1015·5	-6	WSW	2	c	71	55	7	2	–	2	2-3	7-8	4000	0	*
	Winchester	1015·8	-6	SW	3	bc	67	55	8	2	–	8	2-3	4-6	4000	0	*
	Boscombe Down	1015·9	-8	W	3	c	69	65	7	7	–	6	4-6	9	2500	0	*
	Calshot, S'thmtn	1016·6	-4	SW	4	bc	66	55	7	–	–	6	0	4-6	–	0	1
	Dungeness	*	*	E	2	bc	*	*	7	–	1	*	0	2-3	–	*	1
	Lympne	1016·5	-2	SE'E	3	b	61	55	8	–	–	1	0	1	–	0	*
2	Shoeburyness	1015·8	-10	ESE	2	c	63	75	8	3	2	6	2-3	9	5700	0	*
	Felixstowe	1016·1	-10	SE'S	3	bc	63	55	9	–	–	6	0	2-3	–	0	1
	Gorleston	1015·2	-14	S'E	3	bc	62	75	6	–	–	9	0	2-3	–	0	2
	Cranwell	1014·1	-12	WNW	3	c	67	65	8	7	–	6	2-3	9+	4000	0	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1014·9	-6	WNW	3	c	66	55	8	6	7	9	2-3	9	2500	0	*
	Upper Heyford	1015·4	-4	WSW	3	c	68	65	8	8	–	6	4-6	7-8	5700	0	*
	Leafield	1015·3	-10	WSW	4	c	65	55	8	8	–	6	1	7-8	5700	0	*
4	Ross-on-Wye	1015·1	-10	W'S	2	c	69	55	8	2	3	3	1	7-8	4000	0	*
5	Portland Bill	1016·8	-10	SSW	3	bc	60	85	7	4	4	2	2-3	4-6	2500	0	2
	Plymouth	1017·3	-6	NW	3	bc	65	65	8	1	–	2	Tr.	4-6	4000	0	1
	Falmouth	1018·6	-8	NW	3	bc	63	65	8	1	3	6	1	4-6	4000	0	1
	Scilly (St. Mary's)	1018·7	-10	W'N	4	c	60	95	8	8	–	–	9	9	2500	0	1
	Guernsey	1017·6	-4	–	0	bc	65	65	7	–	–	8	0	2-3	–	0	1
6	Pembroke	1016·3	-8	SW	3	ir	57	95	6	9	–	–	10	10	800	1	1
7	Holyhead	1013·8	-14	SW'S	4	c	56	95	7	5	1	–	9+	10	450	0	1
	Chester (Sealand)	1014·8	-10	SW'W	3	c	62	75	9	5	–	8	7-8	9+	4000	0	*
8	L'pool (Bidston)	1014·4	-6	WSW	4	c	61	75	9	8	3	8	4-6	9	4000	0	*
9	Harrogate	1014·1	-6	SW'S	3	c	60	75	8	6	1	–	4-6	9+	2500	0	*
10	Spurn Head	1013·1	-6	SSE	2	cjp	59	95	6	6	2	–	4-6	9+	2500	0	1
	Tynemouth	1012·1	-18	W	2	c	62	75	7	2	–	–	9	9	2500	0	1
11	Inchkeith	1011·0	-14	SW	3	c	55	85	8	8	2	–	7-8	10	4000	0	2
	Leuchars	1010·5	-18	SW	3	c/r	58	85	7	9	2	–	7-8	10	1500	0	*
12	Renfrew	1011·4	-14	WSW	2	ir	55	95	6	6	2	–	7-8	10	1500	1	*
	Eskdalemuir	1012·0	-14	SWW	4	id	53	85	7	6	2	–	9	10	800	1	4
13A	Tiree	1008·3	-20	SSW	4	c	53	95	8	5	2	–	4-6	9+	1500	1	3
13B	Stornoway	1006·3	-6	SW	1	ir	53	95	8	5	2	–	7-8	10	4000	(1)	1
15	Dalwhinnie	1008·9	-20	S	1	r	52	75	5	3	–	–	10	10	450	1	*
	Aberdeen	1009·0	-28	S	3	r	55	95	6	6	7	–	4-6	10	1500	1	1
	Wick	1006·7	-24	S	3	c	55	95	8	8	2	–	7-8	10	2500	0	2
16	Lerwick	1008·4	-22	SSE	3	c/r	52	95	6	5	2	–	4-6	10	450	1	*
17	Blacksod Point	1010·9	-24	S	5	o	57	85	8	5	–	–	10	10	450	0	4
18	Malin Head	1009·5	-30	SW	3	c/r	55	95	8	5	7	–	1	9+	1500	0	1
	Aldergrove	1011·9	-16	SW	1	iR	55	95	7	6	2	–	9+	10	450	1	*
	Donaghadee	1011·8	-12	WSW	1	c	58	85	8	5	2	–	9	9	1500	1	0
19	Birr Castle	1013·8	-14	SW	2	c	57	85	8	6	2	–	7-8	10	1500	0	*
20	Valentia Obsy.	1015·7	-18	SW'W	3	c	56	95	8	5	–	–	10	10	1500	1	4
	Roches Point	1015·3	-8	W	3	ir	59	85	8	6	–	–	10	10	1500	1	3

Diffalor.	Stations.	PAST 24 HOURS. WEATHER. 7h.–13h. 1st (37)	13h.–18h. 1st (38)	18h. 1st to 1h. 2nd (39)	1h.–7h. 2nd (40)
1	London (Kew)	bmc3o	c3oy	c3oyb3o	b3oc
	Croydon	bbcy.	cbc3oy	cbc3o	cmo
	S. Farnborough	bbcy	cbcy	ybccw	cwcpr
	Winchester	bybcy.	bcy	bc-bc	bccpro
	Boscombe Down	bmoby	bcyc	cbc	bccroro
	Calshot, S'thmtn	cmobcy.	bcy	bc	bcc
	Dungeness	bc	b	*	bc
	Lympne	bc	b	bc	o
2	Shoeburyness	bcb	bbc	c	c
	Felixstowe	cbbcv	bcybyv	bcyvc	c
	Gorleston	c	cbc	bcc	oproc
	Cranwell	iromo	c3ocy.	C	cbc
3	Cardington	*	*	bcc	ccp
	Birmingham	bcc	c	c	c
	Upper Heyford	bcy	bccy	c	ciro
	Leafield	bcy	bcyc	c	ocr
4	Ross-on-Wye	b3bcc	cybcy	ccpo	c
5	Portland Bill	b3o	bbc	C	c
	Plymouth	b3o	bbc	b-c	bwcvr
	Falmouth	bq	bc	bcc	cpro
	Scilly (St. Mary's)	bc	bcc	C	corr
	Guernsey	b3bc	bc3bc	bcwb	bbcc
6	Pembroke	bcc	c	clr	orr
7	Holyhead	c,ro	c	c	coro
	Chester (Sealand)	3obcc	c	cv	cv
8	L'pool (Bidston)	bcbcc	ccv	vpocv	c cv
9	Harrogate	cgc	c	c	c
10	Spurn Head	c	bc	bc	bc
	Tynemouth	ompoc	cbcc	oirc	c
11	Inchkeith	ciro	iroc	ciropr	cpr
	Leuchars	cwroc	cro	ciro	clroir
12	Renfrew	crmdoc	c,doro	iroro	crir
	Eskdalemuir	cidoc	cid	cidoir	oro d
13A	Tiree	odom	ororo	corR	oirmo
13B	Stornoway	c	coir	orr	rrcrr
15	Dalwhinnie	bc	r		r
	Aberdeen	ciroc	cro	ciromo	crro
	Wick	croro	c	crr	crrir
16	Lerwick	cbcomo	oiromo	orrmo	orrmdomo
17	Blacksod Point	id.	o	prqc	prqc
18	Malin Head	cmocdoc	cir	cdom	cdrmo
	Aldergrove	roDDpo	cciR	c	cprc
	Donaghadee	cidoc	cporc	c	ciroc
19	Birr Castle	c	croc	ciro	ciro
20	Valentia Obsy.	cporc	ciro	cororo	corrropro
	Roches Point	ciroc	coir	oirc	cpcv

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, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ☾, lunar halo.
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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

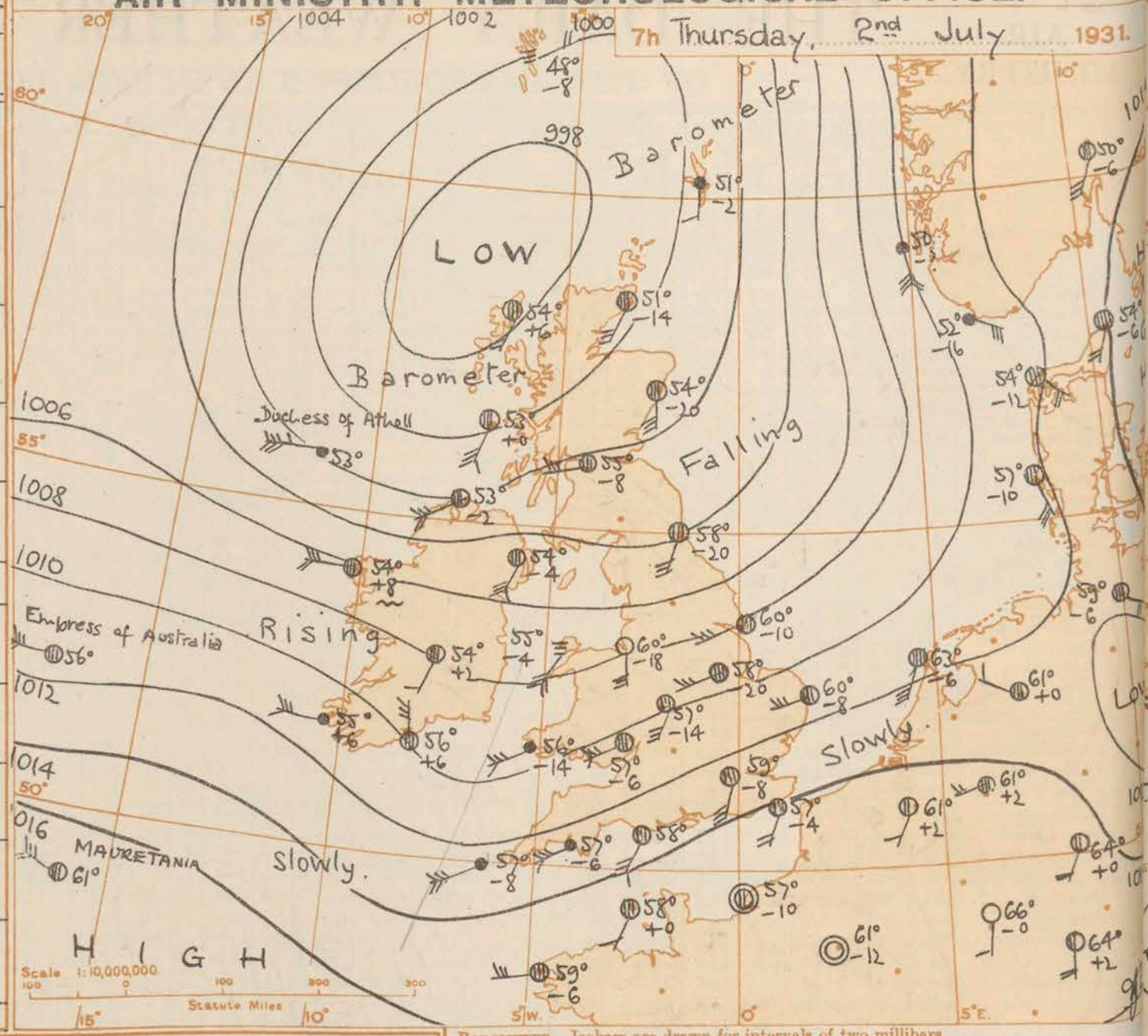
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 1st July 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 30th to 9h. 1st	Temperature. Max. 9h.—17h. 1st	Rainfall. Night. 17h. 30th to 9h. 1st	Rainfall. Day. 9h.—17h. 1st	Sunshine. Sunrise to 17h. 1st	Sunshine. Sunrise to Sunset. 30th
1	Tunbridge W.	bcb	bc	45	74	–	–	10.0	10.7
	Bournemouth	b	b	47	73	–	–	11.8	12.8
	Ventnor ...	b	b	57	70	–	–	12.0	13.2
	Southsea ...	b	b	53	72	–	–	11.8	13.8
	Bognor Regis	b	b	53	69	–	–	11.6	13.1
	Littlehampton	bcb	b	51	70	–	–	11.6	13.3
	Worthing ...	b	b	53	68	–	–	11.3	13.4
	Brighton ...	b	b	53	70	–	–	11.3	13.1
	Eastbourne†	b	by	52	68	–	–	10.9	12.9
	Hastings† ...	b	b	51	69	–	–	10.6	11.9
	Folkestone ...	bcb	b	53	69	–	–	10.8	12.3
	Dover... ...	bbc	bcb	56	70	–	–	11.4	12.9
	Deal	b	b	48	68	–	–	10.7	12.5
	Ramsgate ...	b	b	57	66	–	–	11.2	12.0
	Margate ...	bcb	b	56	66	–	–	11.5	12.3
2	Southend ...	b	b	52	70	–	–	10.7	10.8
	Maldon ...	b	b	50	72	–	–	10.0	8.4
	Clacton-on-Sea	bc	bbc	53	66	–	–	10.3	12.1
	Dovercourt ...								
	Lowestoft ...	b	b	51	63	–	–	11.0	11.4
	Skegness ...	obc	becom.	48	67	–	–	3.7	8.9
	Mablethorpe	o	coc	53	66	–	–	2.6	10.2
	Cleethorpes ...	ocbc	ou	53	69	–	–	2.4	10.3
3	Leamington S.	bbc	c	52	72	–	–	7.5	10.8
4	Cheltenham†	ybbc	bcc	54	78	–	–	9.0	6.4
5	Bath	b	bbc	52	72	–	–	11.3	7.9
	Weymouth ...	by	b	51	71	–	–	12.0	12.4
	Jersey ...	b	b	56	73	–	–	12.5	14.0
	Torquay ...	bbc	bcy	51	69	–	–	12.2	12.6
	Penzance ...	b	b	52	69	–	–	11.4	11.8
	St. Ives ...	b	b	53	63	–	–	11.3	13.2
	Bude	cbcb	bbc	44	63	–	–	11.5	11.0
	Ilfracombe ...	b	b	51	63	–	–	11.9	9.1
6	Aberystwyth	cbc	bcc	48	63	–	–	6.1	4.7
7	Llandudno ...	c	c	51	64	1	–	3.5	5.8
	Colwyn Bay...	bcc	cp	50	66	1	Trace	3.1	6.5
	Rhyl	bcc	c	50	65	Trace	–	4.6	6.4
8	Wallasey ...	bbc	bcpc	53	64	0.3	Trace	6.2	5.1
	Southport‖ ...	bbcc	bcco	52	64	0.4	–	6.0	5.0
	Blackpool ...	bc	bcco	52	63	1	–	5.3	5.1
	Morecambe ...	bbcc	cbcb	54	62	–	–	3.7	6.3
9	Ilkley... ...	c	bcc	51	68	0.5	–	4.7	5.3
10	Berwick-on-T.	ocbc	co	52	64	–	–	1.0	2.1
11	Dunbar ...	bc	cir	52	64	–	Trace	0.2	4.4
12	Douglas ...	cb	cbc	52	60	Trace	–	1.4	6.6

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

AIR MINISTRY. METEOROLOGICAL OFFICE.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. - ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/10 clouded. ◕ Sky 1/10 to 1/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd July, 1931.
1. S.E. England	
2. E. England...	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	ALL DISTRICTS
6. South Wales	
7. North Wales	Fresh winds between west and south, strong at times; cloudy, some rain and showers; moderate temperature or rather warm.
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	
13. A. W. Scotld. / B. N.W. Scotland.	
14. Mid-Scotland	
15. N.E. Scotland	
16. Orkneys and Shetlands.	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

H.M. Stationery Office Press, Kingsway W.C.2

GENERAL INFERENCE.

A depression off Northwest Scotland is moving eastward and another off Southwest Iceland is following it. Weather will be unsettled generally with some rain and showers in most districts.

FURTHER OUTLOOK.

Unsettled generally with some rain in most districts.

Forecasts issued at 0915 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

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

Morning of
THURSDAY,
2nd JULY
1931.

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 2nd July 1931.

No. 25424

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1016.1	-10	SSW	2	C	57	85	6	4	3	6	2-3	9+	5700
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1015.8	-6	SW'W	3	C	54	85	8	-	-	6	0	7-8	-
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1015.7	-10	SW	2	C	63	96	7	-	3	2	0	7-8	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1013.0	-18	SW'W	2	C	58	85	7	6	2	-	4-6	9+	2500
	Cranwell ...	240	1012.4	-14	W'S	2	C	58	85	7	5	7	-	7-8	10	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1015.8	-4	W	1	C	56	95	8	4	4	5+	4-6	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1017.8	-6	WSW	2	C	57	86	8	8	1	-	7-8	10	4000
	Scilly (St. Mary's)	163	1016.4	-12	W	3	C	56	95	8	8	8	-	4-6	9+	4000
	Guernsey ...	175	1017.0	-6	-	0	C	56	95	7	-	-	-	0	0	-
6	Pembroke ...	142	1012.8	-12	WSW	4	ir	56	95	7	3	1	-	7-8	10	1500
7	Holyhead ...	26	1010.5	-16	SSW	4	C	55	96	7	5	-	-	9+	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1011.9	-4	SW	2	C	58	95	7	5	2	-	7-8	10	2500
	Tynemouth ...	67	1009.1	-16	SSW	2	C	57	85	7	4	-	-	7-8	7-8	4000
11	Inchkeith ...	190	1006.8	-10	SW	2	C	54	95	8	8	8	-	4-6	9	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1000.0	-26	SSE	3	rr	50	95	6	3	-	-	10	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1003.7	-10	SW	1	rr	50	95	8	9	-	-	10	10	1500
16	Lerwick ...	54	1002.8	-22	S	2	rr	51	95	6	6	-	-	10	10	450
17	Blacksod Point	18	1006.4	-12	WSW	5	C	54	95	7	8	8	-	2-3	7-8	800
18	Malin Head ...	52	1007.8	-30	SSW	4	dr.	55	95	5	6	2	-	4-6	10	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1011.5	-14	SSW	4	dd	58	95	5	5	-	-	10	10	450
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1012.4	-6	SW'W	3	C	61	75	8	-	7	-	0	9+	-	0	*
	Croydon ...	1012.5	-8	SW'S	3	C	59	75	6	4	7	-	4-6	7-8	5700	0	*
	S. Farnborough	1012.4	-10	SW'W	3	pr	59	75	8	5	7	-	4-6	9+	7200	0	*
	Winchester ...	1012.5	-10	SW	3	c|pr	57	85	8	5	1	-	7-8	9	2500	0	*
	Boscombe Down	1012.9	-6	SW	4	c|r	55	95	7	5	2	-	9+	10	1500	0	*
	Calshot, (S'thmtn)	1013.6	-2	WSW	3	C	60	75	8	5	7	-	4-6	10	2500	0	1
	Dungeness ...	*	*	SW	3	C	*	*	7	8	-	*	7-8	7-8	2500	*	1
	Lympne ...	1013.2	-4	SSW	2	3	57	95	6	-	7	-	0	9+	-	0	*
2	Shoeburyness	1012.4	-6	SW	3	C	60	85	7	4	-	-	9+	9+	4000	0	*
	Felixstowe ...	1012.2	-14	SW'S	3	C	61	65	8	6	2	-	7-8	10	4000	0	1
	Gorleston ...	1010.8	-8	WSW	3	C	60	75	7	5	-	-	9	9	5700	0	2
	Cranwell ...	1008.8	-20	SW'W	3	C	58	75	8	5	5	-	4-6	7-8	4000	0	*
3	Cardington ...	1011.2	-10	SW	4	ir	58	85	7	6	3	-	9	10	1500	*	*
	Birmingham ...	1009.8	-14	SW	3	C	57	85	8	6	7	-	4-6	9	1500	0	*
	Upper Heyford	1011.8	-6	SSW	3	ir|s	55	95	6	6	-	-	10	10	800	1	*
	Leafield ...	1011.1	-10	SW'S	3	ir	54	95	6	6	2	-	9	9+	450	1	*
4	Ross-on-Wye ...	1010.3	-6	WSW	4	C	57	85	7	5	-	-	9+	9+	2500	0	*
5	Portland Bill....	1012.7	-2	SW	4	C	58	85	8	4	2	-	7-8	9	2500	0	3
	Plymouth ...	1013.1	-12	WSW	3	ir	57	95	7	6	2	-	9	10	800	1	1
	Falmouth ...	1013.3	-6	WSW	4	r|s	57	95	7	6	2	-	7-8	10	1500	1	2
	Scilly (St. Mary's)	1013.2	-8	W'S	5	rr	57	95	7	6	-	-	10	10	2500	1	1
	Guernsey ...	1015.4	0	SW	1	C	58	85	8	5	-	-	7-8	7-8	2500	0	2
6	Pembroke ...	1009.5	-14	WSW	4	r|s	56	95	5	6	-	-	10	10	450	1	3
7	Holyhead ...	1007.2	-X12	SW'S	5	f	55	95	3	5	-	-	10	10	<150	0	2
	Chester (Sealand)	1007.3	-18	S	3	C	60	75	9	5	9	-	7-8	9	2500	0	*
8	L'pool (Bidston)	1006.8	-12	SW	3	C	58	75	9	5	-	-	7-8	7-8	4000	0	*
9	Harrogate ...	1006.7	-20	SSW	3	C	57	75	7	6	7	2	7-8	9+	2500	0	*
10	Spurn Head ...	1008.4	-10	SW'W	3	C	60	85	6	2	3	-	7-8	7-8	4000	0	2
	Tynemouth ...	1004.0	-20	SSW	3	C	58	85	6	6	-	-	7-8	7-8	1500	0	2
11	Inchkeith ...	1002.1	-20	SSW	3	pr	55	85	7	8	2	-	4-6	9+	1500	1	3
	Leuchars ...	1001.8	-20	S	3	ir|s	55	95	7	6	2	-	7-8	9+	800	1	*
12	Renfrew ...	1002.7	-8	W	3	c|r	55	85	7	6	3	-	2-3	9+	800	1	*
	Eskdalemuir ...	1003.1	-16	SW	4	dd	53	95	4	5	-	-	10	10	220	1	*
13A	Tiree	1000.0	0	SW'S	4	C	53	95	7	5	2	-	4-6	10	1500	1	2
13B	Stornoway ...	998.0	+6	SSW	2	C	54	95	8	8	6	-	7-8	9	1500	1	2
15	Dalwhinnie ...	1003.7	+20	SE	3	C	49	85	8	1	4	-	7-8	10	2500	1	*
	Aberdeen ...	1000.9	-20	S	3	c|r	54	95	7	6	2	-	7-8	10	800	1	1
	Wick	999.1	-14	SW	3	c|r	51	95	8	6	2	8	4-6	10	1500	1	3
16	Lerwick ...	1000.4	-2	S	1	d|d	51	95	5	6	-	-	10	10	450	1	*
17	Blacksod Point	1006.8	+8	WNW	5	C	54	85	8	3	-	-	7-8	7-8	800	0	4
18	Malin Head ...	1002.1	-2	SW'W	5	c|d	53	95	6	6	1	-	7-8	10	1500	1	2
	Aldergrove ...	1004.9	-4	SW'S	4	C	54	85	7	5	1	-	9	10	800	1	*
	Donaghadee ...	1004.4	-10	W	2	C	56	85	8	7	3	-	4-6	7-8	4000	1	1
19	Birr Castle ...	1008.0	+2	SW	1	c|r	54	95	8	8	1	-	4-6	7-8	2500	1	*
20	Valentia Obsy.†	1011.4	+6	WNW	4	c|pr	55	95	7	5	-	1	7-8	9	1500	1	3
	Roches Point...	1010.0	-6	N	3	C	56	85	9	3	-	-	9	9	1500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 1st Hrs. (36)
1	London (Kew)...	74	57	53	-	-	8.5
	Croydon ...	74	55	53	-	-	9.5
	S. Farnborough	75	53	44	-	Tr	11.5
	Winchester ...	73	51	45	-	Tr	11.6
	Boscombe Down	72	51	45	-	Tr	*
	Calshot, (S'thmtn)	72	53	48	-	-	13.4
	Dungeness ...	*	*	*	-	-	*
	Lympne ...	69	51	49	-	-	12.8
2	Shoeburyness	68	57	54	-	-	11.2
	Felixstowe ...	66	59	51	-	-	10.5
	Gorleston ...	62	58	55	-	Tr	11.3
	Cranwell ...	72	56	55	Tr.	-	4.5
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	70	56	54	-	-	6.8
	Upper Heyford	73	55	52	-	0.1	*
	Leafield ...	71	53	49	-	0.5	11.2
4	Ross-on-Wye ...	73	56	54	-	Tr	11.4
5	Portland Bill....	66	55	*	-	-	*
	Plymouth ...	69	56	52	-	1	13.5
	Falmouth ...	67	56	*	-	2	14.2
	Scilly (St. Mary's)	65	55	*	-	3	10.6
	Guernsey ...	67	55	49	-	-	14.3
6	Pembroke ...	63	53	*	Tr.	4	6.2
7	Holyhead ...	62	54	53	Tr	Tr	2.8
	Chester (Sealand)	67	57	54	-	-	4.5
8	L'pool (Bidston)	62	55	54	-	Tr	4.6
9	Harrogate ...	67	54	49	-	-	3.1
10	Spurn Head ...	63	57	*	Tr.	-	2.7
	Tynemouth ...	65	55	52	0.1	Tr	*
11	Inchkeith ...	62	52	50	0.2	1	0.1
	Leuchars ...	63	52	52	0.2	1	+0
12	Renfrew ...	60	53	51	0.2	4	0.0
	Eskdalemuir ...	57	50	50	2	7	0
13A	Tiree	56	51	49	2	6	0.2
13B	Stornoway ...	58	50	*	2	5	0.2
15	Dalwhinnie ...	56	47	46	1	5	0.4
	Aberdeen ...	62	52	51	0.2	2	2.1
	Wick	55	49	*	0.1	6	*
16	Lerwick ...	57	50	*	1	10	3.1
17	Blacksod Point	58	52	*	1	2	*
18	Malin Head ...	60	52	*	2	3	2.1
	Aldergrove ...	62	52	49	3	0.6	0.4
	Donaghadee ...	63	54	*	0.5	1	*
19	Birr Castle ...	62	53	52	Tr.	0.3	1.0
20	Valentia Obsy.†	59	54	53	1	3	0.4
	Roches Point...	62	55	*	3	3	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW	18	bmc3₀	c3₀y	c3₀y|b3₀c	74	57	53	-	-	8.5	•	•	8
CROYDON	217	bbc4	cbc3₀y	cbc3₀fm₀	74	55	53	-	-	9.5	•	•	8
GREENWICH (Royal Observatory) ...	149	bc3y	c3y	c3y|c|p₀	75	57	48	-	Tr	7.2	49	68	7
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•	6.5	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	73	58	55	-	-	6.2	44	69	•
REGENTS PK. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	7.2	•	•	•
CAMDEN SQUARE	110	bc	c	•	74	58	55	-	Tr	•	•	72	•
KENSINGTON	80	bc3	bc	•	74	57	51	-	Tr	7.1	At 18h. 48	74	•
HAMPSTEAD OBSERVATORY	450	6m	bbc	•	73	52	41	-	Tr	8.7	•	79	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
1·2	7hr 1st	<0·3	0 to 5hr 2nd

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0·2	7h. 1st	<0·1	4 hr. 2nd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 1st July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 2nd July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1013·7	NW	3	b	77	1015.4	-	0	b	61
BRUSSELS	1013·2	NW	2	b	73	1014·0	SW	1	bc	61
BERLIN						1012·0	SSE	1	c	63
ZÜRICH	1019·1	S	1	ir	63	1016·8	S	1	bc	63
ROME						1017·1	ENE	1	c	73

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
81	50	-	-
79	48	-	-
	57		-
86	59	11	0·1
	52		-

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 Precipitous.
4 Rough.	9 Confused.

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

FRIDAY. 3rd. JULY 1931.

No. 25,425

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

District.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility (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)	1011·1	−14	SW	4	c	66	65	8	5	-	-	10	10	2500
	Croydon	1011·5	−10	SW's	4	c	62	75	8	5	2	-	9	9+	1500
	S. Farnborough	1011·0	−10	SW'w	4	c	64	75	8	5	-	-	9+	9+	1500
	Winchester	1011·1	−10	SW	4	c	64	75	8	5	-	-	9+	9+	1500
	Boscombe Down	1011·4	−10	SW	4	c	60	85	8	5	-	-	10	10	1500
	Calshot, S'thmtn	1013·0	0	SW'S	5	c	64	65	8	5	-	-	4·6	9+	1500
	Dungeness	*	*	SW	4	bc	*	*	7	5	1	*	2·3	4·6	4000
	Lympne	1012·0	−6	SW'S	5	c	63	75	8	7	7	-	7·8	9+	2500
2	Shoeburyness	1011·0	−10	SW	4	c	64	85	7	5	2	-	7·8	9+	2500
	Felixstowe	1010·9	−6	SW	4	c	64	65	8	5	7	-	9	10	2500
	Gorleston	1009·4	−12	NSW	4	c	64	75	8	5	8	-	10	10	4000
	Cranwell	1007·2	−10	SW'w	4	c	64	75	7	5	-	-	10	10	2500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1008·1	−6	SSW	4	bc	63	75	8	5	7	-	2·3	4·6	1500
	Upper Heyford	1010·2	−6	SW	4	c	61	85	8	5	-	-	10	10	1500
	Leafield	1009·8	−6	SW'S	3	c	60	85	9	5	-	-	10	10	1500
4	Ross-on-Wye	1009·0	−10	WSW	4	c	64	75	8	8	-	-	9	9	4000
5	Portland Bill	1012·1	−4	SW	5	c	59	85	8	4	4	-	4·6	9	2500
	Plymouth	1012·1	−6	SW	4	id₀	59	95	6	5	-	-	10	10	450
	Falmouth	1012·6	−2	WSW	4	c	63	95	8	8	-	-	7·8	7·8	4000
	Scilly (St. Mary's)	1013·0	+2	WNW	3	c	61	85	6	3	-	-	9+	9+	2500
	Guernsey	1014·6	0	WSW	2	c	63	75	9	8	3	-	4·6	7·8	2500
6	Penrhoke	1010·0	+2	W	3	bc	59	85	8	5	4	-	4·6	4·6	2500
7	Holyhead	1008·3	+4	SW	4	c	59	75	8	8	-	-	9+	9+	4000
	Chester (Sealand)	1007·2	+2	W	4	c	64	65	8	5	3	-	7·8	7·8	2500
8	L'pool (Bidston)	1007·2	+3	W'N	5	bc	61	65	9	7	-	-	2·3	2·3	4000
9	Harrogate	1006·0	0	SW'S	5	q	61	65	9	8	-	-	7·8	7·8	2500
	Spurn Head	1006·2	−2	WSW	4	c	67	75	9	7	-	-	4·6	7·8	4000
	Tynemouth	1007·9	−4	W	6	bc	65	55	7	4	2	-	4·6	4·6	2500
11	Inchkeith	1002·0	+2	SW	3	c	56	85	8	8	2	-	4·6	9+	1500
	Leuchars	1001·2	0	WSW	4	cjp	64	65	7	3	-	-	4·6	7·8	2500
12	Renfrew	1002·5	−4	WSW	3	cjd	59	85	8	7	-	-	9+	9+	1500
	Eskdalemuir	1003·0	+6	W	4	jpr₀	56	75	8	8	-	-	9+	10	1500
13A	Tiree	1001·0	+10	W'S	4	pr	56	95	7	7	1	-	4·6	7·8	1500
13B	Stornoway	998·1	+2	W	2	bc	60	75	8	7	7	-	4·6	4·6	2500
15	Dalwhinnie	1000·7	0	E	1	c	52	85	8	7	4	-	4·6	10	4000
	Aberdeen	999·2	−4	SW	2	pr₀	61	75	8	8	3	-	7·8	9	2500
	Wick	998·1	0	NNW	2	jp	56	85	8	8	8	8	7·8	9	1500
16	Lerwick	999·3	−8	SSE	1	0	53	95	6	5	-	-	10	10	450
17	Blacksod Point	1007·6	+6	NNW	6	c	58	75	7	3	-	-	10	10	800
18	Malin Head	1002·9	+12	N	6	cjp	57	95	7	5	6	-	7·8	7·8	1500
	Aldergrove	1004·4	−2	WSW	5	cjpr	59	75	7	5	3	-	7·8	9+	800
	Donaghadee	1004·0	−2	WSW	2	cjpr	59	75	8	5	-	-	9	9	1500
19	Birr Castle	1008·5	+2	W	3	c	58	75	8	5	-	-	9+	9+	2500
20	Valentia Obsy.	1011·8	−2	W	3	c	59	75	8	5	-	-	9	9	1500
	Roches Point	1010·5	+4	N	3	bc	63	75	9	8	-	-	4·6	4·6	2500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility (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)
1009·6	−10	SW	4	c	63	65	8	4	-	6	4·6	7·8	4000	0	*
1010·0	−8	SSW	3	bc	65	75	8	7	7	1	2·3	4·6	2500	0	*
1009·4	−12	S'W	3	bc	65	75	8	7	-	1	2·3	2·3	1500	0	*
1009·9	−10	SW	4	c	65	75	8	7	-	1	7·8	9	1500	0	*
1010·1	+8	WSW	4	c	64	85	8	7	-	-	9+	9+	1500	0	*
1011·7	−8	SW'S	4	c	61	85	8	7	-	-	9+	9+	800	0	2
*	*	SW	4	c	*	*	*	5	4	*	2·3	4·6	4000	*	2
1011·3	−2	WSW	3	c	61	75	7	5	-	-	10	10	1500	0	*
1010·0	−8	SW	4	bc	65	85	7	5	3	4	0	4·6	-	0	*
1009·5	−6	SW	4	bc	66	65	8	5	-	1	4·6	4·6	2500	0	2
1007·8	−8	WSW	3	bc	67	75	8	5	-	-	2·3	2·3	5700	0	2
1006·8	0	W	4	c	66	65	7	5	-	1	4·6	7·8	2500	0	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1007·7	0	NNW	4	bc	62	85	8	4	-	2	2·3	4·6	1500	0	*
1008·8	−2	SW	5	c	63	75	8	5	-	4	4·6	7·8	1500	0	*
1008·8	−6	SW'w	4	bc	63	75	9	5	-	1	4·6	4·6	4000	0	*
1008·7	−4	W'S	3	c	65	65	8	4	-	1	7·8	7·8	4000	0	*
1010·6	−8	SW	5	bc	59	95	8	4	7	-	4·6	4·6	2500	0	4
1011·3	−4	WNW	4	bc	62	75	8	5	-	-	2·3	2·3	2500	0	2
1012·2	−2	WNW	3	bc	61	85	8	5	-	-	4·6	4·6	4000	0	2
1012·5	−10	WNW	4	c	61	75	8	5	-	-	7·8	7·8	4000	0	1
1013·2	−6	W'S	2	c	61	85	7	5	3	-	4·6	7·8	2500	0	2
1010·0	−4	W	3	bc	58	85	8	5	6	1	2·3	4·6	2500	0	2
1008·6	+2	SW	4	c	58	75	8	5	-	-	9+	9+	4000	0	1
1007·9	+2	W'S	2	c	61	65	8	5	-	-	9+	9+	4000	0	*
1007·5	0	W	5	c	59	75	9	5	-	-	9+	9+	2500	0	*
1006·3	0	SSW	3	c	57	75	9	3	3	2	9	10	2500	0	*
1005·9	0	NW'W	3	c	62	75	6	8	4	-	7·8	9	4000	0	2
1003·5	0	W	4	c	60	75	6	6	-	-	10	10	1500	0	2
1002·1	0	WSW	3	c	55	85	8	8	2	-	4·6	9+	1500	0	2
1001·3	+2	W	3	c	59	75	8	7	3	-	9	9+	1500	0	*
1003·4	+6	WSW	4	ic₀	56	85	7	8	-	1	9	9+	1500	1	*
1003·4	0	W	5	c	54	75	9	5	-	-	9+	9+	800	1	*
1002·5	+4	SW'W	4	id₀	54	95	7	6	5	-	4·6	9	1500	1	2
999·5	+6	W	2	id	55	95	6	3	-	-	9+	9+	2500	1	*
1000·8	+6	(SE)	3	c	54	65	5	4	4	-	7·8	10	450	0	*
999·4	+2	N	1	cjp	57	85	7	8	-	-	9+	9+	2500	0	1
998·6	+2	SW	1	jpr₀	55	95	8	9	2	-	7·8	7·8	1500	1	*
997·4	−10	S	1	c	54	85	6	5	-	-	9+	9+	800	1	*
1007·5	−4	W	4	c	57	85	8	5	-	-	10	10	800	0	3
1004·3	+6	W	5	cjp	55	95	8	5	-	6	4·6	7·8	1500	0	3
1005·9	+6	WSW	4	cjpr	56	85	8	5	-	-	9	9+	800	1	*
1005·3	+8	WSW	2	c	59	85	8	5	-	-	9+	9+	1500	0	1
1008·8	0	W	3	c	59	75	8	5	-	8	9	9+	2500	0	*
1011·3	−6	W'S	3	c	58	85	8	5	-	-	10	10	1500	1	3
1010·1	−4	SW	3	bc	65	75	9	8	-	4	2·3	4·6	1500	0	3

PAST 24 HOURS.

Weather. 7h.–15h. 2nd. (37)	Weather. 13h.–18h. 2nd. (38)	Weather. 18h. 2nd to 1h. 3rd (39)	Weather. 1h.–7h. 3rd (40)
cpr₀c	cbc	bcb	bw
cpr₀r₀	c	bcm₀w	bwbc
cp₀c	c	bccb	bw
pr₀oc	c	cbcb	bfeb
cir₀	c	cb	bm₀b
cp₀rc	c	obc	bcc
bc	bc	*	f-3
cp₀oc	c	com₀	odbof
cp₀r	cbc	b	b
cp₀rc	cbc	be	bc
c	cbc	bcc	cbc
c	cbc	bcc	cbbc
*	*	bcb	bbcb
cpr₀	cbc	bcc	cbcb
ord₀c	odbcr₀	bcbw	bobocfcu
cr₀o	odbc	bccbc	bccco
c	bc	cbc	bcc
c	cbc,bc	c	c
rd₀m₀	d₀m₀b	cvbc	bcc
cr₀	cbc	bcc	c
irifc	c	c	c
cbcc	cbcc	co	o
op₀r	bc	bcb	c
bcmbc	c	cbcw	bcwoc
idcbc	cv	c	cbcw
prcv	bcrcv	cvcuc	cbc
cidc	cr₀	c	cbc
bc	bc	bc	cbc
cbcfp₀	bcp₀o	oc	cbc
cpr	c	c	c
cr₀cbc	cpr₀p₀	c cw	cwid₀
cd₀m₀c	cd₀p₀	cr₀c	cod₀m₀
od₀mcpr₀	cpr₀	cpr₀	ccd₀d₀
sd₀m₀	cid₀	ord₀	oir₀
cpd	cpd₀	c	od₀
c	c		c
cp₀r	cp₀r	cpr₀b	bbcw
c	cp₀c	cpr₀c	c
od₀d₀m₀	om₀com₀	bco	oir₀
prqc	c	ldq	dr
cd₀m₀	cp₀	cbcc	cg
cir₀pr₀	cpr₀	c	cir₀
cp₀r	cp₀rc	c	cpr₀
cvcv	cv	c	ccoid
ccid₀	c	ccid₀	cir₀oid₀m
bcvbcv	bcv	bcvbw	bbcire

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.
f_o, fog over sea (coast station).
f_g, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_c, 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).
⊕, Solar halo. ☾, lunar halo.
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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

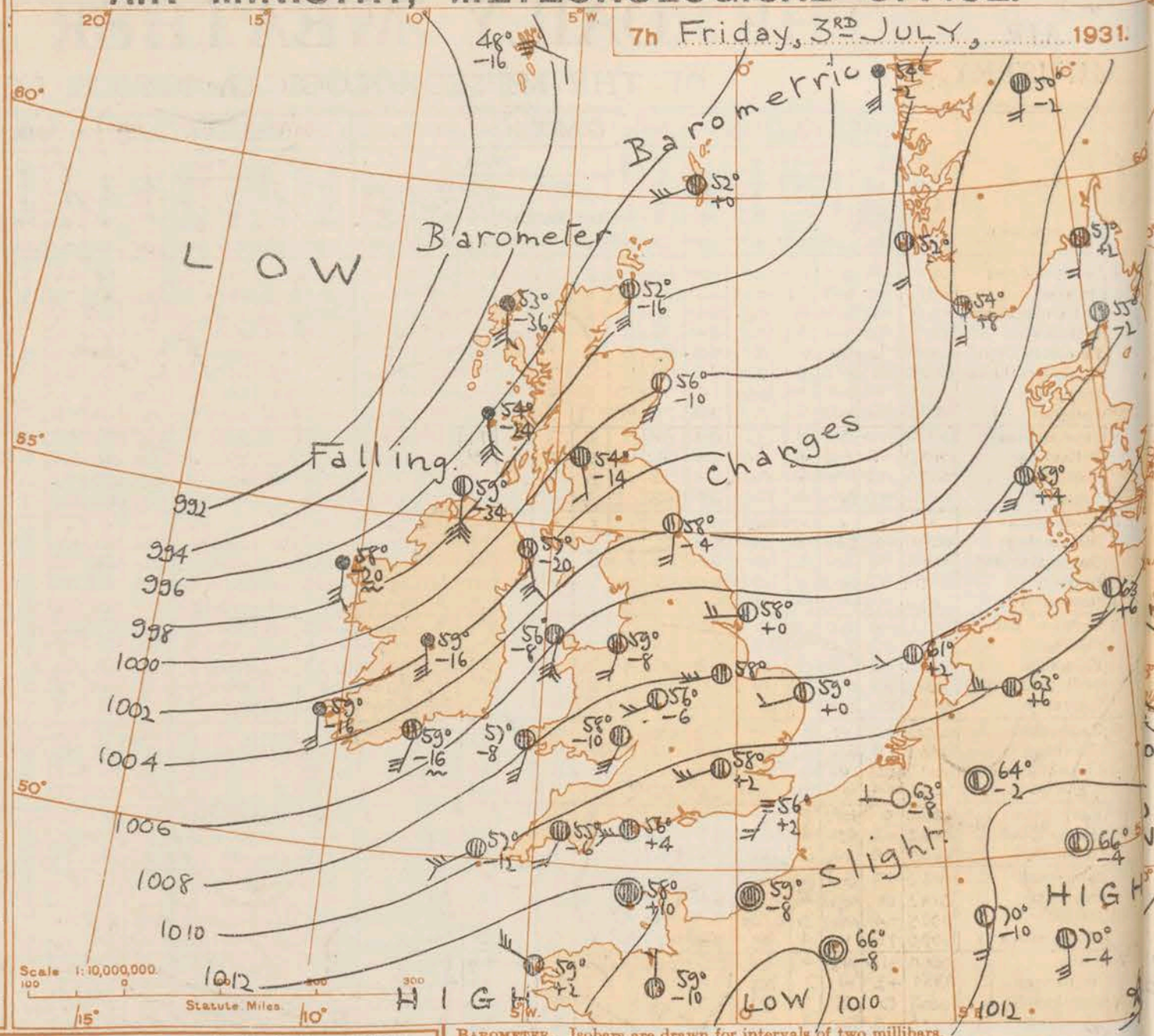
REPORTS from HEALTH RESORTS for 2nd JULY 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 1st to 9h. 2nd.	Temperature. Max. 9h.—17h. 2nd.	Rainfall. Night. 17h. 1st to 9h. 2nd.	Rainfall. Day. 9h.—17h. 2nd.	Sunshine. Sunrise to 17h. 2nd.	Sunshine. Sunrise to Sunset. 1st.
1	Tunbridge W.	cbcc	coc	50	64	-	-	0.9	10.8
	Bournemouth	0	c	54	65	-	-	1.0	13.7
	Ventnor ...	cu	co	56	61	-	-	0.4	13.2
	Southsea ...	c	co	57	65	-	-	0.6	12.7
	Bognor Regis	bcrc	co	55	69	Trace	-	0.3	12.4
	Littlehampton	cbcc	c	51	63	Trace	-	0.6	13.0
	Worthing ...	cdc	c	55	65	-	Trace	2.0	12.5
	Brighton ...	cbc	bcco	55	63	Trace	-	2.8	12.6
	Eastbourne†	cbcc	cbc	56	64	-	-	5.6	12.2
	Hastings† ...	cbcbc	bccbc	54	66	-	-	4.8	11.4
	Folkestone ...	cbcr	bcc	54	67	-	Trace	5.0	12.0
	Dover... ...	bcc	cbcc	57	63	-	-	4.4	12.5
	Deal	cb	o	55	68	-	Trace	3.5	11.7
	Ramsgate ...	bcc	c	57	66	-	-	2.0	12.1
	Margate ...	bcc	cp	57	69	-	Trace	2.2	12.5
2	Southend ...	or	o	59	65	Trace	Trace	0.6	11.3
	Maldon ...	cbc	c	55	66	Trace	-	0.3	10.2
	Clacton-on-Sea	cpc	c	59	66	-	0.2	1.5	11.1
	Dovercourt ...								
	Lowestoft ...	bccd	bcbcb	57	70	-	Trace	1.3	12.5
	Skegness ...	obc	bcm	46	69	-	-	4.2	3.7
	Mablethorpe								
	Cleethorpes ...	cocbc	bc	53	72	-	-	3.8	2.4
3	Leamington S.	c	c	57	70	-	-	1.9	7.7
4	Cheltenham†	co	obcbq	55	69	Trace	-	3.3	2.3
5	Bath	cp	bc	57	67	0.3	Trace	2.0	12.7
	Weymouth ...	bc	cbccb	54	66	Trace	-	2.7	14.0
	Jersey ...	cbc	bc	55	67	-	-	4.4	15.0
	Torquay ...	opc	cdpdc	55	68	0.6	Trace	1.0	14.4
	Penzance ...	omc	cr	56	67	3	0.2	2.7	12.3
	St. Ives ...	d	c	56	64	4	Trace	1.2	12.5
	Bude	ocd	ocd	55	62	2	Trace	0.7	13.2
	Ilfracombe ...	odcb	cb	56	63	2	0.3	0.2	13.9
6	Aberystwyth	coimr	oimrc	54	62	0.5	0.3	2.2	6.1
7	Llandudno ...	cidc	c	56	63	-	Trace	1.2	3.5
	Colwyn Bay...	c	bcc	56	66	-	-	2.7	3.1
	Rhyl	cd	bcc	56	65	0.1	-	2.7	4.6
8	Wallasey ...	cpbc	bcc	57	65	Trace	Trace	2.0	5.2
	Southport‖ ...	ocbc	cbcco	57	63	1	-	2.5	6.0
	Blackpool ...	odo	oc	57	63	0.2	-	2.3	6.3
	Morecambe ...	obc	bbcbcc	54	61	1	-	3.0	3.7
9	Ilkley... ...	cbcc	bcpo	54	64	Trace	0.4	3.8	4.7
10	Berwick-on-T.	copr	co	54	62	2	Trace	1.7	1.0
11	Dunbar ...	oirc	crsc	54	62	2	Trace	3.6	0.2
12	Douglas ...	cb	cbc	53	62	Trace	-	2.8	1.4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Friday, 3RD JULY, 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊤ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 3rd July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Moderate to fresh southerly to southwesterly winds; mainly fair today, some rain perhaps tomorrow; moderate temperature or rather warm.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Fresh southerly to westerly winds, strong at times; cloudy, some rain, followed by showers and bright intervals; moderate temperature.
10. N.E. England 11. S.E. Scotland	Fresh southerly to southwesterly winds, strong at times; cloudy, some rain and showers; moderate temperature.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. / B. N.W. Scotland. 14. Mid-Scotland	Fresh or strong southerly to westerly winds; cloudy, some rain, followed by showers and bright intervals; moderate temperature.
15. N.E. Scotland 16. Orkneys and Shetlands	As 10 - 11.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 12 - 14.

GENERAL INFERENCE.

A large depression centred off Western Scotland will move eastward and cause unsettled conditions with some rain in most districts particularly in the West and North though weather in Southeast England will remain mainly fair today.

FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2

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

Morning of Friday, 3rd July, 1931.

HIGH
LOW
HIGH
LOW
HIGH
LOW
HIGH
LOW
HIGH
LOW
HIGH
LOW
HIGH
LOW

Lambert's Projection Scale 1·4 × 10⁷ along meridian at 55°N
Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

FRIDAY, 3rd JULY 1931.

No. 25,425

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

District.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	10109	+2	W'S	3	bc	57	85	7	4	3	–	1	2-3	4000
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	10120	+2	WNW	3	bc	58	85	8	5	–	–	4-6	4-6	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	10118	+2	WSW	3	3	57	95	6	5	–	–	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	10082	0	WN	1	c	59	95	6	–	3	6	0	7-8	–
	Cranwell ...	240	10087	0	WSW	2	c	57	85	7	5	7	–	7-8	10	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1011.1	+2	W'S	4	c	57	85	8	4	9	–	4-6	9	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	10121	-6	SWW	2	c	56	85	8	5	–	–	9	9	4000
	Scilly(St.Mary's)	163	10132	-4	W	3	c	56	95	7	5	–	–	9+	9+	4000
	Guernsey ...	175	10130	0	–	0	0	58	95	8	5	–	–	10	10	2500
6	Pembroke ...	142	10095	-6	WSW	3	c	56	95	8	8	–	–	9+	9+	1500
7	Holyhead ...	26	10082	-6	SSW	2	bc	53	95	7	–	–	1	0	4-6	–
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	10077	0	W'S	2	c	58	85	6	8	7	–	7-8	10	5700
	Tynemouth ...	87	10047	+2	W	1	c	55	85	7	6	–	–	7-8	7-8	1500
11	Inchkeith ...	190	10037	+4	SW	3	c	53	85	8	8	2	–	7-8	10	4000
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	9992	-4	WSW	3	c	52	95	7	5	–	–	9+	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	9997	+2	WNW	1	c	51	95	8	8	2	8	4-6	7-8	1500
16	Lerwick ...	54	9970	-6	S	1	c	52	95	7	5	–	–	10	10	800
17	Blacksod Point	18	10027	-22	WSW	4	cD	57	95	7	6	–	–	10	10	1150
18	Malin Head ...	52	10023	-14	S	4	c	55	95	7	5	7	–	2-3	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ..	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	10076	-16	SW	5	0	56	95	8	5	–	–	10	10	800
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District.	Stations.	Barom. at M.S.L. mb. (15)	Change in 12 hours. (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)...	1010.4	+4	SW	2	b	58	85	8	7	–	6	Tr	1	2500	0	*
	Croydon ...	1010.6	+2	W'S	2	bc	58	85	7	1	5	1	1	2-3	1500	0	*
	S. Farnborough	1009.9	0	WSW	2	bc	57	85	8	1	–	1	4-6	4-6	1500	0	*
	Winchester ...	1010.0	-4	SSW	1	bc	56	95	7	5	–	–	2-3	2-3	4000	0	*
	Boscombe Down	1009.9	-4	WSW	3	bc	56	85	7	5	–	–	4-6	4-6	1500	0	*
	Calshot,(S'thmtn)	1011.1	0	SW	2	c	58	75	8	5	–	–	10	10	1500	0	1
	Dungeness ...	*	*	SSW	2	f	*	*	5	5	–	*	10	10	800	*	1
	Lympne ...	1010.8	+2	SW	2	of-	56	95	2	5	–	–	10	10	1150	0	*
2	Shoeburyness	1010.6	0	SW	2	bc	60	85	8	1	–	1	1	2-3	4000	0	*
	Felixstowe ...	1010.0	+2	SW	1	bc	59	85	8	1	3	1	1	4-6	4000	0	0
	Gorleston ...	1008.7	0	WSW	1	bc	59	85	7	–	4	1	0	2-3	–	0	2
	Cranwell ...	1007.7	-8	WSW	3	c	58	88	7	–	3	6	0	7-8	–	0	*
3	Cardington ...	1009.3	0	SW	3	bc	57	85	7	1	–	1	Tr	2-3	1500	*	*
	Birmingham ...	1008.7	-6	WSW	2	bc	56	85	8	1	6	–	2-3	2-3	1500	0	*
	Upper Heyford	1009.8	0	SW'S	3	c/f	54	95	6	5	–	–	9+	9+	450	0	*
	Leafield ...	1009.5	-2	SSW	2	o	53	95	7	5	–	–	10	10	800	0	*
4	Ross-on-Wye ...	1008.7	-10	SW'W	3	c	58	85	7	8	–	–	7-8	7-8	4000	0	*
5	Portland Bill...	1010.5	+4	W	4	c	56	85	8	4	2	–	4-6	10	2500	0	3
	Plymouth ...	1010.5	-6	W	1	c	55	85	8	5	–	–	10	10	1500	0	0
	Falmouth ...	1010.4	-8	SW'W	2	c	56	95	8	5	2	–	4-6	10	4000	0	1
	Scilly(St.Mary's)	1009.7	-12	WSW	4	c	57	95	8	5	–	–	9+	9+	4000	0	1
	Guernsey ...	1012.0	+10	–	0	0	58	85	8	5	–	–	10	10	4000	0	2
6	Pembroke ...	1007.5	-8	SSW	3	c	57	95	8	9	–	–	10	10	800	0	2
7	Holyhead ...	1006.1	-8	S'W	5	c	56	95	8	5	–	–	10	10	800	0	2
	Chester (Sealand)	1006.9	-8	SSW	2	c	59	75	8	5	–	1	4-6	9	1500	0	*
8	L'pool (Bidston)	1005.8	-10	SW'W	3	bc	59	75	8	4	–	1	2-3	2-3	5700	0	*
9	Harrogate ...	1006.3	0	S'E	2	c	58	75	7	6	–	1	4-6	7-8	2500	0	*
10	Spurn Head ...	1007.3	0	W	2	bc	58	85	7	–	1	1	0	4-6	–	0	2
	Tynemouth ...	1003.9	-4	SSW	2	bc	58	75	6	2	–	1	2-3	4-6	2500	0	1
11	Inchkeith ...	1002.6	-4	SW	2	c	54	85	8	5	2	–	4-6	9	2500	0	2
	Leuchars ...	1001.7	-2	SW	2	c/d	56	85	7	5	7	–	2-3	9+	1500	0	*
12	Renfrew ...	1002.0	-14	S	1	-/d	54	95	6	5	–	–	10	10	800	1	*
	Eskdalemuir ...	1003.5	-6	SW'S	4	d$_{od_o}$	52	95	6	6	2	–	9+	10	800	1	*
13A	Tiree	995.7	-24	S'E	5	ir$_o$	54	95	7	6	2	–	7-8	10	800	1	3
13B	Stornoway ...	984.1	-36	S	4	d	53	95	6	5	–	–	10	10	800	1	3
15	Dalwhinnie ...	9999	+20	SSE	3	80	51	85	5	6	3	–	9	10	450	0	*
	Aberdeen ...	999.6	-10	SSW	3	bc	56	85	8	5	–	–	4-6	4-6	4000	0	1
	Wick	9977	-16	S	3	c	52	95	8	5	7	8	7-8	10	2500	0	2
16	Lerwick ...	9966	0	WSW	3	c	52	95	7	5	2	–	4-6	10	1500	0	*
17	Blacksod Point	997.3	-20	S	4	Dr	58	95	6	6	–	–	10	10	1150	1	4
18	Malin Head ...	996.2	-34	S	6	c	59	95	7	5	1	–	7-8	9+	800	0	3
	Aldergrove ...	1000.8	-20	S'E	4	c/r	57	85	7	5	2	–	9	10	800	1	*
	Donaghadee ..	1001.4	-16	SW	2	c/pr	56	95	7	5	2	–	7-8	9	1500	1	1
19	Birr Castle ...	1001.7	-16	S	3	r'd	59	95	6	6	–	–	10	10	1500	1	*
20	Valentia Obsy.†	1003.1	-16	S'W	3	r$_{a_o}$	59	95	4	5	–	–	10	10	450	1	3
	Roches Point...	1004.9	-18	SW	3	c	59	95	7	3	–	–	9+	9+	1500	1	4

PAST 24 HOURS.

District.	Stations.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 2 hrs. Hrs. (36)
1	London (Kew)...	70	52	45	0.1	–	1.6
	Croydon ...	65	50	44	Tr.	Tr	2.5
	S. Farnborough	67	47	34	0.3	–	3.4
	Winchester ...	67	43	37	Tr.	–	2.8
	Boscombe Down	67	55	38	0.1	–	*
	Calshot,(S'thmtn)	65	53	46	Tr.	–	0.9
	Dungeness ...	64	54	*	–	–	*
	Lympne ...	66	54	49	Tr.	Tr	4.1
2	Shoeburyness	67	52	43	Tr.	–	2.0
	Felixstowe ...	66	55	51	0.1	–	3.2
	Gorleston ...	67	55	51	–	–	2.0
	Cranwell ...	70	54	51	–	–	5.7
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	68	51	48	Tr.	–	6.0
	Upper Heyford	67	48	42	0.4	Tr	*
	Leafield ...	65	47	39	0.1	–	4.6
4	Ross-on-Wye ...	69	51	45	–	–	4.8
5	Portland Bill...	61	55	*	–	–	*
	Plymouth ...	63	55	53	Tr.	–	2.6
	Falmouth ...	64	55	*	Tr	–	2.8
	Scilly(St.Mary's)	64	55	*	6	–	1.8
	Guernsey ...	65	57	56	–	–	2.1
6	Pembroke ...	60	55	*	0.1	–	8.3
7	Holyhead ...	62	53	48	–	–	2.7
	Chester (Sealand)	67	49	42	0.1	–	3.4
8	L'pool (Bidston)	61	52	49	Tr	–	2.0
9	Harrogate ...	63	53	48	Tr.	–	4.0
10	Spurn Head ...	70	57	*	–	–	3.6
	Tynemouth ...	66	54	50	0.4	–	*
11	Inchkeith ...	57	51	48	0.1	–	0.9
	Leuchars ...	64	51	47	0.2	Tr	4.1
12	Renfrew ...	61	53	50	Tr.	Tr	0.9
	Eskdalemuir ...	58	49	47	35	0.2	0.9
13A	Tiree	58	52	51	0.1	1	4.7
13B	Stornoway ...	62	51	*	0.2	0.2	6.3
15	Dalwhinnie ...	56	49	48	–	–	2.1
	Aberdeen ...	65	45	36	0.1	Tr	1.0
	Wick	57	49	*	0.1	Tr	*
16	Lerwick ...	55	50	*	Tr.	Tr	0.1
17	Blacksod Point	59	55	*	0.2	3	*
18	Malin Head ...	58	53	*	0.5	–	4.9
	Aldergrove ...	60	51	44	0.1	Tr	0.3
	Donaghadee ..	61	51	*	0.2	0.1	*
19	Birr Castle ...	62	55	50	Tr.	0.2	3.9
20	Valentia Obsy.†	60	56	56	–	3	0.8
	Roches Point...	68	55	*	–	4	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cpr$_o$c	cbc	bcbw	70	52	45	0-1	–	1-6	*	*	8
Croydon	217	cp$_o$rr$_o$	c	bcw$_o$bc	65	50	44	Tr	Tr	2-5	*	*	8
Greenwich (Royal Observatory) ...	149	cp_	cbc	bcbw	69	51	38	0.3	Tr	1-7	70	65	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	1-6	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	67	53	48	0.3		1-5	69	68	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	1-3	*	*	*
Camden Square	110	ccpc	c	*	67	53	49	0.3	–	*	*	70	*
Kensington	80	cocop	cobcbc	*	68	53	43	0.4	–	1-9	At 18h. 73	73	*
Hampstead Observatory	450	cbcp	bc	*	65	48	34	Tr	–	1-0	*	75	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0-5	7h-2nd	10-3	18h on 2nd To 2h on 3rd

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

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 2nd JULY. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 3rd JULY. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1011.1	W	3	c	81	1010.7	–	0	bc	66
Brussels	1011.4	W	3	c	70	1010.6	W	1	b	63
Berlin	1010.3	–	0	c	73	1009.9	SSW	1	ir$_o$	68
Zürich	1014.3	N	1	c	79	1015.6	W	1	c	70
Rome										

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
82	57	–	–
77	54	–	–
81	64	–	Tr
86	63	–	–

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

SATURDAY 4th JULY 1931.

No. 25,426

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

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

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	13h. Barom. at M.S.L. mb. (1)	13h. Change in 3 hours. (2)	13h. Wind. Direc. (3)	13h. Wind. Force 0-12 (4)	13h. Weather. (5)	13h. Temp. °F. (6)	13h. % Humid. (7)	13h. Visibility 0-9 (8)	13h. 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)	18h. Barom. at M.S.L. mb. (15)	18h. Change in 3 hours. (16)	18h. Wind. Direc. (17)	18h. Wind. Force 0-12 (18)	18h. Weather. (19)	18h. Temp. °F. (20)	18h. % Humid. (21)	18h. Visibility 0-9 (22)	18h. 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)	Past 24 hours. Weather. 7h.–13h. 3rd. (37)	13h.–18h. 3rd. (38)	18h. 3rd. to 1h. 4th. (39)	1h.–7h. 4th. (40)
1	London (Kew)	1008.0	-1.2	SW	3	b	71	55	6	-	-	1	0	Tr.	-	1005.5	-1.2	SSW	4	b	75	55	8	-	-	1	0	Tr.	-	0	*	bcby	bc	b	c
	Croydon	1008.4	-6	SW	4	b	71	55	8	-	-	1	Tr.	1	2500	1005.9	-1.6	SW's	3	b	69	66	7	-	-	1	0	1	-	0	*	bcby	byb	born.	cdo
	S. Farnborough	1008.1	-6	SSW	3	b	72	55	8	-	-	1	1	1	2500	1005.8	-1.2	SW's	3	b	68	66	8	-	-	1	0	Tr.	-	0	*	bcby	byb	bo	oidomo
	Winchester	1008.4	-4	SW	4	bc	67	65	8	-	-	1	2.3	2.3	2500	1005.7	-1.4	SSW	4	bc	65	65	8	-	-	1	0	2.3	-	0	*	bbc	bcb	bbcc	odomo
	Boscombe Down	1008.6	-6	SSW	4	bc	66	65	7	-	-	1	4.6	4.6	2500	1006.2	-1.0	SSW	4	b	65	65	8	-	-	1	Tr.	1	4000	0	*	bc	bc	b-cmo	crrmo
	Calshot, S'thmtn	1010.6	-7	SW's	3	bc	62	65	7	-	-	1	4.6	4.6	1500	1008.0	-0.6	SSW	4	bc	61	65	8	-	-	1	2.3	4.6	1500	0	*	bc	bc	bco	oidomo
	Dungeness	*	*	SW	3	*	*	*	*	-	-	*	2.3	4.6	4000	*	*	SW	3	bc	*	*	*	-	-	*	4.6	4.6	4000	*	1	*	*	*	d
	Lympne	1009.1	-4	SW	4	bc	66	65	8	-	-	-	2.3	2.3	1500	1007.0	-6	SSW	3	bc	67	75	8	-	4	-	0	Tr.	-	0	2	cbc	bc	b	bwF	bfoaf
2	Shoeburyness	1008.3	-10	SSW	3	bc	72	65	8	-	-	-	2.3	2.3	4000	1005.4	-6	SSW	3	b	71	65	8	-	-	-	0	0	-	0	*	b	by	bbc	bcc
	Felixstowe	1008.5	-8	SSE	4	b	66	75	9	-	-	-	0	0	-	1005.4	-7.8	S	4	b	67	75	8	-	-	-	0	Tr.	-	0	*	bcyb	bv	brb	bovams
	Gorleston	1007.3	-6	SE	6	b	63	85	9	-	-	-	0	2.3	-	1005.0	-1.0	S	5	b	66	75	8	-	-	-	0	0	-	0	23	bcby	bcby	bqbc	bcc
	Cranwell	1005.5	-1.0	SW	4	b	71	55	8	-	-	1	Tr	1	4000	1003.6	-8	W's	4	b	69	65	8	-	3	-	Tr.	1	4000	0	*	bcby	byb	bicro	cro
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	b-c	codo
	Birmingham	1006.3	-4	SW	3	bc	65	65	8	6	1	-	2.3	7.8	2500	1004.4	-1.0	WSW	3	c	64	75	8	4	4	-	4.6	7.8	2500	0	*	bcc	bc	c	cpro
	Upper Heyford	1007.5	-6	SSW	3	b	68	66	8	-	-	-	4.6	4.6	2500	1004.9	-1.4	SW	4	bc	69	65	8	1	-	5	2.3	2.3	4000	0	*	cmobc	bc	bc	bcforo
	Leafield	1007.2	-6	SW's	3	bc	65	65	8	-	-	-	2.3	2.3	4000	1004.8	-2.0	SW	3	bc	67	65	8	-	-	-	2.3	2.3	5700	0	*	obc	b	bcc	oro c
4	Ross-on-Wye	1007.6	-4	SW	4	c	61	75	6	-	-	-	9+	9+	4000	1004.7	-1.4	SW'W	3	c	65	75	8	6	7	-	1	9	2500	0	*	cbcc	cbc	c	cpoc
5	Portland Bill	1009.2	0	SW	4	c	59	85	7	4	2	-	7.8	10	2500	1006.9	-1.4	SW'W	5	c	59	85	8	4	2	-	7.8	10	2500	0	3	c	c	cro f	fdfmo
	Plymouth	1009.1	-6	SSW	3	c	60	85	8	-	-	-	10	10	1500	1006.9	-1.6	SW	3	c	58	85	8	-	-	-	10	10	800	0	1	co	co	ofaodo	odoaff
	Falmouth	1009.4	-4	SW	4	c	59	85	8	-	-	-	10	10	4000	1007.0	-1.4	SW's	4	dd	58	85	8	-	-	-	10	10	1500	0	2	c	cidmo	oidomcq	cgihomo
	Scilly (St. Mary's)	1008.3	-1.0	SW's	4	c	60	85	8	-	-	-	10	10	2500	1005.5	-1.4	WSW	4	id.	59	85	8	-	-	-	10	10	1500	0	2	omd	mido	ddifo	ifeir
	Guernsey	1010.5	0	SW	1	o	62	75	8	-	-	-	10	10	2500	1008.3	-1.0	W	2	o	60	85	8	-	-	-	10	10	2500	0	2	ocbcc	ocbco	o	iro od
6	Pembroke	1005.4	-1.0	SSW	4	c	57	95	3	6	5	-	10	10	450	1003.4	-1.0	SW	3	df	58	95	1	2	3	9	10	10	4150	1	2	cidifr	orFa	Fjddrr	ifrcbc
7	Holyhead	1004.1	-8	S'E	6	c	57	95	3	6	5	-	10	10	220	1002.9	-1.0	S'W	5	cfr	56	95	1	5	6	9	10	10	4150	1	2	ir.q	id.m	rorot	dadfca
	Chester (Sealand)	1004.5	-8	S	4	c	64	75	9	-	-	-	9+	9+	2500	1002.9	-6	SSE	3	cpr	63	75	8	1	2	-	7.8	9+	2500	1	2	becv	cl	cr	cpr
8	L'pool (Bidston)	1004.4	-4	SW	4	c	64	75	9	9	-	-	7.8	9+	4000	1002.5	-6	SW	3	cpr	61	85	9	6	2	-	7.8	10	2500	1	*	bcvc4	oprvc	proR	rocbb
9	Harrogate	1003.8	-6	S	4	c	66	65	7	6	3	-	4.6	7.8	4000	1002.6	-6	S	4	ir.	62	85	7	6	7	-	7.8	9+	2500	0	*	bcc	cir.	cir	crrcbc
10	Spurn Head	1005.5	-4	SW	4	c	66	65	7	6	3	-	2.3	4.6	4000	1002.6	-4	WSW	4	bc	64	75	8	6	-	-	0	2.3	-	0	2	bc	bc	bcc	bc
	Tynemouth	1002.0	-6	SW	3	c	63	65	7	6	-	-	7.8	7.8	1500	1001.3	-4	SW	3	c	64	75	6	6	-	-	7.8	7.8	1500	0	1	bc	cp.	coir.	orororc
11	Inchkeith	998.0	-1.4	SW	3	c	60	75	8	4	3	-	7.8	9	4000	998.2	-4	SW	3	ir.	59	95	8	5	2	-	4.6	10	2500	1	2	c	cir.	cir.	crr
	Leuchars	998.5	-1.4	SW	4	cfr	63	85	8	5	2	-	7.8	9+	1500	998.3	-2	SW	3	cfr	60	95	7	6	2	-	7.8	10	1500	1	*	cpcrc	cprcr.	cir.	cir.
12	Renfrew	998.7	-6	SW	3	dr	58	95	7	5	2	-	9+	10	1500	998.6	-2	SW	2	c	61	85	7	4	-	1	9+	9+	1500	1	*	c, drmo	cmrmc	cpir.	cir.
	Eskdalemuir	1000.8	-1.0	SW's	5	dd	56	95	6	5	-	-	10	10	800	999.7	-6	SW's	4	cr	55	95	4	5	-	-	10	10	4150	1	4	odd	oddorm	orr	orrepr
13a	Tiree	999.1	+6	SW	5	cfr	59	95	7	5	7	-	2.3	7.8	1500	998.3	+4	SSW	5	bc	58	95	8	5	6	9	2.3	4.6	1500	1	3	orrr.	cbc	bc	bc
13b	Stornoway	999.9	+6	SSW	5	ir.	56	95	7	5	4	-	4.6	5	1500	997.0	+6	SSW	5	c	56	85	8	2	9	-	4.6	7.8	2500	0	3	orr	c	c	c
15	Dalwhinnie	997.8	+10	SSE	3	r	57	55	6	3	-	-	7.8	10	450	996.0	+6	S	2	c	59	65	5	2	4	-	9	10	4000	0	*	by	bc		bc
	Aberdeen	997.3	-1.0	SSE	3	c	58	75	8	7	6	-	1.0	1.0	1500	996.6	+2	SSE	2	c	58	95	6	1	5	8	7.8	9	1500	0	2	bcc	c	cmorr	orrero
	Wick	993.9	-1.0	S	4	c	58	85	7	6	5	8	4.6	7.8	2500	993.2	0	SSW	4	c	61	85	8	5	7	9	4.6	7.8	2500	0	2	c	c		cbc
16	Lerwick	995.0	-1.0	SE	3	c	55	85	7	6	5	6	4.6	7.8	1500	993.8	-2	S	2	c.	53	95	6	6	7	-	10	10	800	1	*	cbcc	cdrcmo	orororbc	cofe
17	Blacksod Point	997.7	+6	S	4	bc	61	85	8	8	-	-	4.6	4.6	2500	997.2	-4	SW	4	pr	59	85	8	8	-	1	4.6	7.8	800	0	4	prqc	prqc	prqc	prcq
18	Malin Head	996.3	+4	WSW	5	cfr	60	95	8	9	2	-	9+	9+	1500	996.4	-2	W	4	c	59	85	8	2	8	-	7.8	7.8	2500	0	3	cirdo	cpobc	bc	bc
	Aldergrove	998.6	-2	S'W	4	id.	61	95	7	6	2	-	9	10	800	998.0	-4	S'W	3	c	65	65	9	8	3	1	2.3	7.8	1500	1	*	cirdo	circn	bccpro	c
	Donaghadee	998.3	-8	SSW	2	id.	61	95	7	6	2	-	46	9	1500	998.2	-10	SW	1	c	63	95	7	3	3	3	4.6	7.8	2500	1	1	prido	id.prc	cpro	cprob
19	Birr Castle	1000.5	0	SW	2	id.	62	85	6	6	2	-	9	10	1500	999.2	-6	SW	1	c	65	65	8	5	5	9	4.6	9	2500	1	*	cid.	c	cp.	cbc
20	Valentia Obsy.	1002.6	-2	SSW	4	c	61	85	8	8	4	2	4.6	7.8	1500	1000.5	-1.8	SW's	4	c	60	95	8	5	3	-	4.6	7.8	800	1	4	cidmirdoc	cpc	cpro bc	bcc
	Roches Point	1002.6	-1.0	SW	3	c	62	95	8	9	-	-	9+	9+	800	1001.7	-6	SW	3	ir	58	95	7	5	-	-	10	10	800	1	4	cid.c	cbir	irid.	ir rbc

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, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail.
i, intermittent.
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).
⊕, Solar halo.
⊖, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

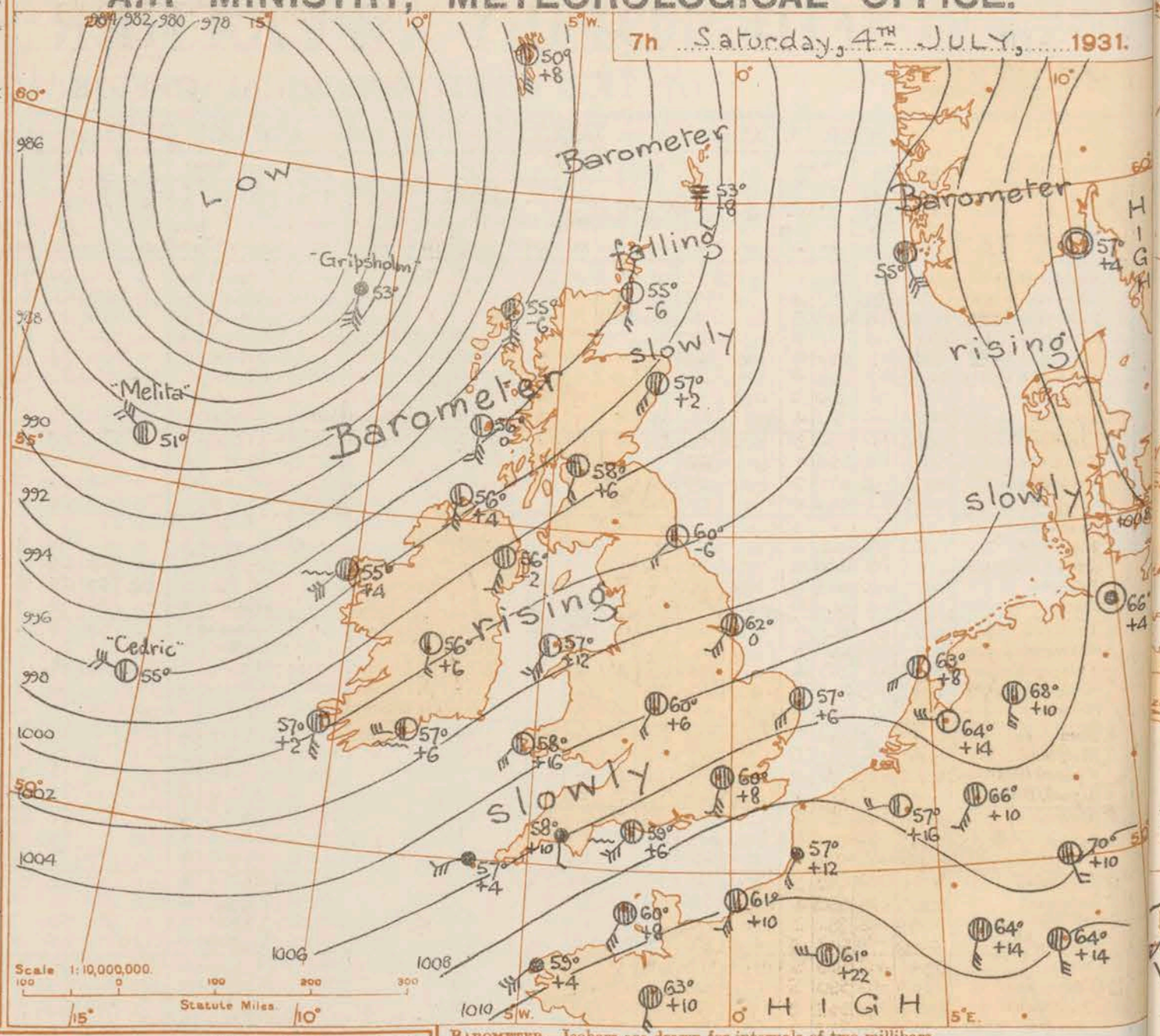
REPORTS from HEALTH RESORTS, for 3rd JULY 1931

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 2nd to 9h. 3rd	Temperature. Max. 9h.—17h. 3rd	Rainfall. Night. 17h. 2nd to 9h. 3rd	Rainfall. Day. 9h.—17h. 3rd	Sunshine. Sunrise to 17h. 3rd	Sunshine. Sunrise to Sunset. 2nd
1	Tunbridge W.	b	b	52	71	–	–	11.8	1.4
	Bournemouth	bc	bc	51	66	–	–	9.0	1.3
	Ventnor ...	ofc	bco	54	60	–	–	5.6	0.4
	Southsea ...	ocb	bcb	53	65	–	–	6.6	0.6
	Bognor Regis	bccbc	bcb	54	63	–	–	8.4	0.3
	Littlehampton	bc	bc	53	62	–	–	7.7	0.7
	Worthing ...	bc	b	56	63	–	–	9.2	2.0
	Brighton ...	bcb	b	57	63	–	–	8.0	2.8
	Eastbourne†	bc	bccbc	56	64	Tr	–	7.5	6.0
	Hastings† ...	tobc	b	56	66	–	–	8.2	5.0
	Folkestone ...	mcbc	b	56	68	–	–	7.7	5.0
	Dover... ...	bcfoc	cb	56	63	Tr	–	6.9	4.4
	Deal	cbcb	b	54	69	–	–	9.2	3.7
	Ramsgate ...	b	b	56	70	–	–	10.1	2.5
	Margate ...	bcb	b	55	74	–	–	11.2	3.3
2	Southend ...	b	b	54	77	–	–	12.0	2.1
	Maldon ...	b	b	50	78	–	–	11.3	1.9
	Clacton-on-Sea	bcb	b	54	68	–	–	11.0	2.7
	Dovercourt ...								
	Lowestoft ...	b	b	52	69	–	–	12.5	3.3
	Skegness ...	b	b	54	75	–	–	11.3	4.2
	Mablethorpe								
	Cleethorpes ...	b	bcb	56	78	–	–	11.3	4.3
3	Leamington S.	cbc	b	51	71	–	–	10.8	2.2
4	Cheltenham†	cwbc	bcb	52	71	–	–	8.0	4.6
5	Bath	cbc	bcbbc	52	70	–	–	5.9	4.9
	Weymouth ...	c	c	52	65	–	–	0.9	3.6
	Jersey ...	rcbc	bcc	56	68	Tr	–	6.6	5.0
	Torquay ...	o	ocbco	54	65	–	–	3.0	2.7
	Penzance ...	c	comf	56	63	–	–	0.0	3.0
	St. Ives ...	c	copb	57	65	–	Tr	1.3	1.2
	Bude	oc	cop	56	63	–	0.2	0.7	0.7
	Ilfracombe ...	cbc	cod	56	66	–	0.1	1.6	3.0
6	Aberystwyth	c	comr	53	62	–	1	0.0	2.3
7	Llandudno ...	c	c	52	69	–	–	4.0	1.2
	Colwyn Bay...	bcb	bcc	49	67	–	–	7.6	2.7
	Rhyl	bcc	bcc	50	64	–	–	5.5	3.7
8	Wallasey ...	bbc	bccp	53	67	–	0.3	5.2	2.0
	Southport‖ ...	bcco	oro	54	66	–	2	3.5	2.5
	Blackpool ...	c	op	55	65	–	0.3	1.8	2.3
	Morecambe ...	crodcrdr		55	66	–	2	0.6	3.0
9	Ilkley... ...	bccbc	c	54	69	–	–	5.3	(3.8)
10	Berwick-on-T.	bcc	oco	53	65	–	–	3.3	1.8
11	Dunbar ...	bc	bcc	53	69	–	–	3.3	1.8
12	Douglas ...	omo	oirF	51	66	–	4	0.0	2.8

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Saturday, 4TH JULY, 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 4th July, 1931
1. S.E. England 2. E. England... 3. E. Midlands	Moderate or fresh southerly or southwesterly winds; occasional rain or showers but also fair intervals; rather warm.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Moderate or fresh southwesterly to westerly winds, strong at times in exposed places; occasional rain and showers but also fair intervals; moderate temperature or rather warm.
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 15. N.E. Scotland 16. Orkneys and Shetlands.	Fresh southerly to southwesterly winds, strong at times in exposed places; occasional rain and showers with perhaps local thunder but also fair intervals; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh southwesterly to westerly winds, strong at times in exposed places; occasional rain and showers with perhaps local thunder but also fair intervals; moderate temperature.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. = ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A deep depression off Western Scotland is remaining almost stationary and beginning to fill up. Weather will be rather unsettled generally with occasional rain or showers in most districts but also fair intervals.

FURTHER OUTLOOK.

Rather unsettled generally.

Forecasts issued at 0915 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

Morning of
Saturday,
4th July,
1931.

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

Lambert's Projection Scale 1.4 × 10⁷ along meridian at 55°N
Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.
○ Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

SATURDAY 4th JULY 1931.

No. 25,426

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

Dist.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1006.3	+ 2	SW'S	3	c	55	95	6	5	-	-	10	10	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1007.0	-6	SSW	4	0	58	95	7	5	-	-	10	10	800
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1005.9	-6	SW/W	2	bF	50	95	1	-	-	1	0	Tr	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1003.9	-6	WSW	2	bc	60	85	7	-	1	-	0	2-3	-
	Cranwell ...	240	1002.4	-8	SW	2	c	61	85	7	5	2	-	7-8	9+	2500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1005.4	-14	SW'S	5	f	57	95	3	5	-	-	10	10	800
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1005.2	-6	SW'S	4	q	59	95	7	5	-	-	10	10	4000
	Scilly (St.Mary's)	163	1004.5	-2	W'S	5	$d_o d_o$	59	95	6	6	-	-	10	10	2500
	Guernsey ...	175	1008.3	0	SSW	2	0	58	85	7	5	-	-	10	10	2500
6	Pembroke ...	142	1001.5	-8	SW	3	if	59	95	2	5	-	-	10	10	<150
7	Holyhead ...	26	1000.9	-10	SSW	5	$d_o d_o$	56	95	3	5	-	-	10	10	<150
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1001.8	-2	SW'S	1	c	60	95	7	7	7	-	4-6	9	5700
	Tynemouth ...	87	999.6	-6	SSW	2	$c_o c_o$	52	95	7	6	-	-	10	10	1500
11	Inchkeith ...	190	998.0	-4	SE	1	c	57	95	8	5	2	-	4-6	10	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	993.5	- 2	S	4	c	52	95	8	6	2	-	4-6	9+	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	995.3	+4	SSW	2	c	53	95	8	8	8	8	7-8	9+	2500
16	Lerwick ...	54	996.2	+14	-	0	c	52	85	7	5	2	-	4-6	9	1500
17	Blacksod Point	18	994.8	-6	SW	5	bc	56	85	7	8	-	-	4-6	4-6	2500
18	Malin Head ...	52	993.9	-8	S	3	bc	56	95	7	8	-	-	2-3	2-3	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	998.2	-10	SW'S	4	bc/pr	56	85	8	4	-	-	4-6	4-6	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Dist.	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)...	1006.2	+10	SSW	3	c	62	85	7	5	-	-	10	10	800	0	*
	Croydon ...	1006.6	+8	SSW	4	o/d	60	95	7	5	-	-	10	10	450	0	*
	S. Farnborough	1006.3	+8	SW	13	$i d_o$	60	95	6	5	-	-	10	10	450	0	*
	Winchester ...	1006.5	+10	SW'S	3	d	59	95	6	5	-	-	10	10	450	1	*
	Boscombe Down	1008.7	+4	SW'S	3	c	62	95	8	5	3	-	4-6	7-8	800	1	*
	Calshot,(S'thmtn)	1007.0	+4	SW	4	$i d_o$	60	95	5	5	-	-	10	10	220	1	2
	Dungeness ...	*	*	SW	3	of	*	*	3	5	-	*	10	10	800	*	2
	Lympne ...	1007.3	+10	SW	4	of	57	95	2	5	-	-	10	10	450	0	*
2	Shoeburyness	1006.1	+6	SW'S	3	c	62	95	8	5	4	9	7-8	9	1500	0	*
	Felixstowe ...	1006.1	+8	SW	3	$i d_o$	61	85	6	5	-	-	10	10	450	1	2
	Gorleston ...	1005.2	+6	SW/W	3	c	57	95	6	7	3	-	7-8	9	2500	0	2
	Cranwell ...	1003.2	+6	SW'S	4	c	61	95	7	6	-	-	9+	9+	800	0	*
3	Cardington ...	1005.0	+14	SW'S	4	$d_o d_o$	62	85	7	6	-	-	10	10	800	*	*
	Birmingham ...	1003.8	+6	SW	2	c	60	95	7	6	-	-	9+	9+	1500	0	*
	Upper Heyford	1004.9	+6	SSW	3	c/r	61	95	8	5	-	-	9	9	800	0	*
	Leafield ...	1004.6	+6	SW'S	4	c	62	95	8	5	-	9	9+	9+	1500	0	*
4	Ross-on-Wye ...	1004.2	+10	SW/W	3	c	61	85	8	9	9	9	2-3	9+	4000	0	*
5	Portland Bill....	1005.9	+6	SW	5	c/f	59	95	5	4	7	2	4-6	9	1500	1	4
	Plymouth ...	1006.0	+10	S	1	dd	58	95	5	6	-	-	10	10	<150	1	1
	Falmouth ...	1005.9	+4	SW/W	4	$i d_o$	59	95	7	6	2	-	4-6	10	2500	1	2
	Scilly (St.Mary's)	1005.2	+4	WSW	4	ir	57	95	7-6	8	-	-	9+	9+	2500	1	2
	Guernsey ...	1008.4	+8	SW	3	-/d	60	95	6	5	-	-	10	10	2500	1	2
6	Pembroke ...	1003.0	+16	SW	3	bc	58	85	7	3	8	1	2-3	4-6	1500	1	2
7	Holyhead ...	1001.9	+12	SW'S	5	bc	57	95	6	5	3	-	1	2-3	800	1	2
	Chester (Sealand)	1002.3	+14	SW/W	2	bc	62	75	6	1	3	-	1	2-3	2500	1	*
8	L'pool (Bidston)	1002.0	+12	SW'S	3	bc	60	75	8	1	6	8	1	2-3	2500	0	*
9	Harrogate ...	1001.3	+6	S	3	bc	60	85	8	6	3	9	2-3	4-6	2500	1	*
10	Spurn Head ...	1002.3	0	SW	4	c	62	95	7	4	4	-	4-6	7-8	4000	0	3
	Tynemouth ...	998.7	-6	SW	2	bc	60	85	6	9	-	-	4-6	4-6	1500	1	1
11	Inchkeith ...	997.4	+6	S	1	c	55	95	8	5	8	-	4-6	7-8	4000	1	*
	Leuchars ...	997.6	+4	SSW	3	c/r	58	85	8	8	-	-	7-8	7-8	1500	1	*
12	Renfrew ...	997.9	+6	SW	2	c	58	85	7	8	3	-	7-8	9	1500	1	*
	Eskdalemuir ...	998.4	+10	SW	4	pr	55	95	6	5	-	-	9+	9+	450	1	*
13A	Tiree	999.4	0	S/W	5	bc	56	85	8	8	6	-	2-3	4-6	2500	0	3
13B	Stornoway ...	997.6	-6	S	5	c	55	85	8	8	6	-	4-6	7-8	2500	1	3
15	Dalwhinnie ...	996.4	+20	E	1	c	53	85	8	1	4	-	3	10	4000	0	*
	Aberdeen ...	996.5	+2	SW	3	c/r	57	95	7	9	7	-	4-6	9+	1500	1	1
	Wick	994.3	-6	SSW	2	bc	55	85	8	8	6	2	4-6	4-6	2500	0	2
16	Lerwick ...	995.0	-8	S	1	f	53	95	2	5	-	-	10	10	450	0	*
17	Blacksod Point	995.0	+4	SW	6	c	55	85	8	9	-	-	9	10	2500	0	4
18	Malin Head ...	994.7	+4	S/W	4	bc	56	95	8	1	-	-	2-3	2-3	4000	0	2
	Aldergrove ...	997.8	-2	SSW	4	c	56	75	8	8	-	-	9	9	1500	1	*
	Donaghadee ...	998.6	+12	SW	2	b	58	85	7	-	3	-	0	1	-	1	0
19	Birr Castle ...	998.9	+6	SSW	2	bc	56	85	8	-	5	-	0	2-3	-	0	*
20	Valentia Obsy.†	999.4	+2	SSW	3	c	57	75	8	8	4	-	7-8	7-8	2500	0	3
	Roches Point...	1001.1	+6	W	3	bc	57	85	8	3	-	4	2-3	4-6	1500	1	4

PAST 24 HOURS.

Dist.	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 (36)
1	London (Kew)...	75	56	52	-	-	14.1
	Croydon ...	72	54	50	-	Tr	14.1
	S. Farnborough	72	53	46	-	Tr	13
	Winchester ...	69	53	49	-	Tr	12.1
	Boscombe Down	68	54	50	-	1	*
	Calshot,(S'thmtn)	64	58	57	-	0.1	9.1
	Dungeness ...	65	53	*	-	-	*
	Lympne ...	67	49	49	-	Tr	11.4
2	Shoeburyness	78	53	47	-	-	14.4
	Felixstowe ...	68	54	51	-	Tr	14.4
	Gorleston ...	67	54	52	-	-	13.1
	Cranwell ...	73	57	54	-	0.2	14.1
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	68	57	57	-	0.2	8.4
	Upper Heyford	71	56	55	-	0.2	*
	Leafield ...	68	55	53	-	0.3	9.6
4	Ross-on-Wye ...	68	59	59	-	0.1	6.7
5	Portland Bill....	60	56	*	-	Tr	*
	Plymouth ...	61	58	57	-	1	0.1
	Falmouth ...	62	58	*	Tr.	1	0.1
	Scilly (St.Mary's)	61	57	*	0.1	1	0.1
	Guernsey ...	65	57	57	-	1	2.1
6	Pembroke ...	58	56	*	2	2	0.1
7	Holyhead ...	58	54	53	1	5	0.3
	Chester (Sealand)	68	58	57	Tr	3	3.4
8	L'pool (Bidston)	66	58	56	1	7	4.1
9	Harrogate ...	69	58	56	Tr	3	3.1
10	Spurn Head ...	76	59	*	-	-	12.1
	Tynemouth ...	69	58	56	Tr	3	*
11	Inchkeith ...	63	54	51	Tr.	2	0.1
	Leuchars ...	65	55	52	0.1	1	0.1
12	Renfrew ...	61	55	52	0.1	4	1.1
	Eskdalemuir ...	56	53	53	12.	18	0.1
13A	Tiree	59	51	47	2	-	5.1
13B	Stornoway ...	61	51	*	3	-	2.1
15	Dalwhinnie ...	53	50	45	-	-	3.1
	Aberdeen ...	62	55	54	-	2	2.1
	Wick	62	51	*	Tr.	-	*
16	Lerwick ...	57	51	*	2	Tr	1.1
17	Blacksod Point	62	54	*	2	1	*
18	Malin Head ...	63	53	*	0.6	Tr	5.1
	Aldergrove ...	67	53	43	1	0.1	1.1
	Donaghadee ...	63	53	*	2	2	*
19	Birr Castle ...	67	51	44	0.1	Tr	2.1
20	Valentia Obsy.†	68	53	49	2	0.1	1.1
	Roches Point...	64	55	*	2	5	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW	18	bc by	bc	b-c	75	56	52	-	-	14.8	*	*	8
CROYDON	217	bc by	by b	$b_o m_o c d_o$	72	54	50	-	Tr	14.8	*	*	6
GREENWICH (Royal Observatory) ...	149	by *	by *	bwc	79	53	45	-	Tr	14.8	49	81	7
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	14.1	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	74	56	53	-	-	13.9	53	83	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	13.9	*	*	*
CAMDEN SQUARE	110	bc b	b	*	78	56	54	-	-	*	At 18h.	81	*
KENSINGTON	80	bc b	bo	*	76	55	50	-	-	14.8	53	87	*
HAMPSTEAD OBSERVATORY	450	bc	b	*	74	51	40	-	Tr.	14.2	*	87	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
0.5	Thr 3rd	Nil.	13hrs 3rd to 3hrs 4th

KEW OBSERVATORY.

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

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 3rd JULY. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 4th JULY. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS						1011.0	W	3	c	61
BRUSSELS	1008.0	NW	1	c	75	1007.8	W	2	c/d	57
BERLIN	1008.0	W/SW	2	bc	82	1007.5	SE	2	c	75
ZÜRICH	1009.4	SW	1	3	81	1012.4	SW	1	r	63
ROME						1013.6	-	0	bc	75

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
		6.1	6
82	55	-	0.6
(81)	61	-	-
80	63	-	3
	68		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 5, 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 31	„

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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† The observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, July, 5th 1931.

No. 25427

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

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

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	13h. Barom. at M.S.L. mb. (1)	13h. Change in 3 hours. (2)	13h. Wind. Direc. (3)	13h. Wind. Force 0-12 (4)	13h. Weather. (5)	13h. Temp. °F. (6)	13h. Humid. % (7)	13h. Visibility 0-9 (8)	13h. 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)	18h. Barom. at M.S.L. mb. (15)	18h. Change in 3 hours. (16)	18h. Wind. Direc. (17)	18h. Wind. Force 0-12 (18)	18h. Weather. (19)	18h. Temp. °F. (20)	18h. Humid. % (21)	18h. Visibility 0-9 (22)	18h. 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)	Past 24 hours. Weather. 7h.–13h. 4th (37)	13h.–18h. 4th (38)	18h. 4th to 1h. 5th (39)	1h.–7h. 5th (40)
1	London (Kew)	1007.8	+6	SSW	4	c	70	65	8				10	10	1500	1008.6	+2	SSW	4	c	65	85	8				10	10	800	0	•	c	cir.c	c	ccw
	Croydon	1007.9	+10	SSW	3	c	66	85	8				9+	9+	800	1008.5	−4	SSW	4	o/d	63	85	8				10	10	800	0	•	ci.c	cri.d.	cd	codd.m.
	S. Farnborough	1007.6	+6	S'W	4	id.	66	85	8				10	10	800	1008.3	+2	SSW	4	o/d	63	85	8				10	10	450	0	•	oi.c	od.cd.	or.	ordd
	Winchester	1008.2	+10	SSW	4	id	61	95	8				10	10	800	1008.7	+2	SW'S	4	d.d.	60	95	8				10	10	450	1	•	cd.m.	odd.m.	oc	corr
	Boscombe Down	1007.1	+2	S	4	r.	61	95	8				10	10	220	1007.7	+2	SSW	4	d.d.	60	95	8				10	10	450	1	•	cd.r.	orrdd	cidm.	crrm.
	Calshot, S'thmtn	1008.6	+6	SW'S	5	o/d	62	95	8				10	10	450	1009.2	+2	SW'S	5	o/d	61	95	8				10	10	450	1	•	oi.m.	odd.m.	oi.r.c	or.r.rr
	Dungeness	*	*	SW	4	o	*	*	5				10	10	2500	*	*	SW'S	3	c	*	*	8				4.6	7.8	4000	•	2	o	bc	•	c
	Lympne	1009.5	+12	SW'W	4	o	62	95	6	5	–	–	10	10	800	1010.2	+2	SW'S	3	c	64	85	8	5	3	1	2.3	9+	1500	0	1	ofo	admbcv	c o f	o f o c
2	Shoeburyness	1008.7	+6	SW'S	4	c	71	75	8				2.3	7.8	2500	1009.6	+4	SW	4	c	67	85	8				7.8	9+	2500	0	•	cbc	bcc	cbc	bcc
	Felixstowe	1007.9	+10	S	4	c	70	65	7	–	–	2	4.6	7.8	2500	1009.1	+6	S'W	4	c	67	75	8				2.3	7.8	1500	0	2	em.bc	bcc	cb	b
	Gorleston	1006.7	+12	WSW	3	c	71	75	7	–	–	1	4.6	7.8	4000	1007.5	+6	SW'S	4	c	71	75	8				4.6	7.8	4000	0	3	cbcc	cg	cbc	bcc
	Cranwell	1004.7	+2	SW'S	4	c	73	55	8	2	3	–	4.6	9+	2500	1007.0	+4	WNW	1	d.d.	58	95	5	6	2	–	9	10	800	1	•	c	ddm.	c.d.o.bc	bcod.
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	•	•	cbc	bcorrm.
	Birmingham	1005.7	+6	SSW	3	r.	67	95	7	6	–	–	10	10	1500	1006.4	+4	SSW	2	c	60	95	8	6	–	–	7.8	7.8	4000	1	•	cor	orrR	bcc	orr
	Upper Heyford	1005.6	−6	SSW	4	ir.	67	75	8	7	2	–	7.8	10	2500	1007.0	+4	SSW	4	c	62	95	8	6	–	–	9	10	800	1	•	cr.	cdarr.	c.r.r.Rrbc	c.r.r.krr
	Leafield	1005.7	0	SSW	4	ir.	64	85	7	6	–	–	10	10	800	1007.2	+8	WSW	3	ir	59	95	8	6	–	–	10	10	450	1	•	cf	oir	orrc	orrc
4	Ross-on-Wye	1005.6	+8	SSW	2	rr	61	95	5	6	–	–	10	10	220	1006.6	+8	SW	3	bc	63	85	7	6	–	9	2.3	4.6	2500	1	•	crr	rrcir.bc	bc.bc	c.o.i.r.c
5	Portland Bill	1007.2	+4	SSW	5	c/d	59	95	6				7.8	10	1500	1008.0	+4	SW	5	c	59	95	8				7.8	10	1500	1	4	o.fd.cd	iDdc	cPRFf	RF.c
	Plymouth	1006.0	+2	SW	4	o/d	59	95	8	4	5	6	10	10	450	1008.3	+12	SW	4	c	59	95	8				1	7.8	450	1	2	oddm	om.bcc	cor.	or.r.b
	Falmouth	1006.2	+4	SW	2	id.	59	95	8	7	–	–	4.6	9	2500	1008.1	+8	SW	4	c	61	95	8				2.3	7.8	4000	1	2	crm.d.	cd.bcc	cir	cirR
	Scilly (St. Mary's)	1006.2	+10	W'S	4	c	61	95	8	6	2	3	2.3	7.8	4000	1007.5	+6	WSW	4	c	61	85	8	4	5	–	2.3	7.8	4000	0	1	cirmc	c	c	cpbc
	Guernsey	1009.3	+6	S	2	o	66	85	7	5	–	–	10	10	2500	1010.0	0	SW	1	o/d	62	95	7	5	–	–	10	10	1500	1	2	oc	oi.d.	or.pr	oirbc
6	Pembroke	1004.0	0	SW	3	c	59	95	7				7.8	10	1500	1005.7	+6	SW	3	c	60	85	7	8	8	4	2.3	7.8	2500	0	2	bceir	cbc	cbc	cir.
7	Holyhead	1003.4	+8	S'W	5	c	59	95	7	4	2	–	1	10	800	1004.5	+4	S'W	5	bc	59	85	7	7	8	3	Tr.	2.3	2500	1	2	bccm.	cm.bc	bbcc	cbw.m.
8	L'pool (Bidston)	1003.4	+4	SW'S	3	pr.	65	95	7	6	8	5	9+	9+	4000	1004.4	+4	SW	3	c	68	85	8	8	8	3	4.6	7.8	2500	0	•	bcc	cpr.v.bc	uybc	cid, be
9	Harrogate	1003.5	+2	WSW	4	c	65	95	8	5	2	–	7.8	10	2500	1004.3	+4	WSW	3	bc	65	85	8	8	8	–	4.6	4.6	4000	0	•	vbcc	ubcvcv	bcbbc	ccpre
10	Spurn Head	1003.5	+6	S	3	c	66	85	8				7.8	9+	2500	1005.2	+6	S	1	ir	60	85	7	6	2	–	9	10	2500	1	•	bcc	cir	cir	cir
	Tynemouth	1003.9	+2	WSW	3	c	64	65	7	3	4	–	2.3	7.8	4000	1006.1	+6	SW	1	ir.	60	95	7	6	–	–	10	10	2500	1	•	bc	corr	cpre	c
11	Inchkeith	1001.2	+12	SW	5	bc	69	45	7	3	–	–	4.6	4.6	2500	1003.4	+8	SW	3	o	63	65	7	6	–	–	10	10	1500	0	2	bcg	bcg.c	obc	bcc
	Leuchars	998.8	+4	SW	4	c	63	55	8	8	8	9	4.6	9	4000	1001.2	+12	SSW	4	c	62	65	8	7	4	–	4.6	7.8	4000	0	2	cir.	c	c bc	bcc
12	Renfrew	999.8	+14	SW	3	pr.	64	65	8	8	6	6	4.6	9	2500	1001.6	+14	WSW	3	bc pr	61	65	8	8	6	8	4.6	4.6	1500	0	•	bccp.r	cpr.bc	bcw	bccw
	Eskdalemuir	1001.2	+14	SW'S	4	c	64	65	8	8	–	6	4.6	7.8	2500	1001.3	+16	WSW	3	ir.	56	85	8	9	–	–	9+	9+	2500	1	•	cbc	bccp	irbcc	bcc
13A	Tiree	995.5	+14	SW	5	c	57	85	8	2	–	–	7.8	10	1500	1002.5	+6	SSW	5	bc	57	85	8	2	–	1	4.6	4.6	2500	1	•	bccpr	cpc	bcc	ccpr.c
13B	Stornoway	995.5	+12	SW	5	bc	61	85	8	8	6	7	2.3	2.3	2500	998.7	+24	SW	5	bc	57	75	8	5	6	–	Tr.	2.3	4000	0	3	bc	bc	bc.b	bcw
15	Dalwhinnie	993.1	+6	S	7	pr.	58	75	8	8	–	–	7.8	9	2500	995.5	+14	SSW	6	q	55	75	8	9	4	9	4.6	7.8	2500	1	4	ebq	cpr.q	bc	bc
	Aberdeen	996.7	+10	SE	2	bc	59	75	8	4	3	–	4.6	4.6	4000	999.2	+20	E	1	c	53	85	8	4	3	–	7.8	10	4000	1	•	bc	phr		r
	Wick	998.3	+12	S'E	4	c	62	75	7	2	3	6	1	7.8	4000	1001.2	+20	S'E	3	c	61	75	7	8	8	–	2.3	7.8	4000	0	1	cr.bc	bcc	bc pc	bcebc
16	Lerwick	995.7	+12	S	2	bc	59	85	8	8	8	8	2.3	4.6	2500	997.8	+14	S	3	c	56	85	8	8	3	1	4.6	7.8	2500	0	2	bc	bcc	bc	bcc
17	Blacksod Point	996.4	+8	S'E	1	o	53	95	6	5	–	–	1.0	1.0	800	997.7	+8	S	1	c	55	85	6	5	7	–	4.6	7.8	1500	0	•	cfcc.om.	ocm.	cbc	bcc
18	Malin Head	997.8	+20	SW	6	q	58	85	8	3	6	–	4.6	7.8	1500	1000.6	+16	SW	5	bc	58	75	8	7	–	2	4.6	4.6	2500	0	3	preq	pcbcq	prc	prc
	Aldergrove	996.6	+12	SSW	5	c/bc	58	85	8	3	–	–	9+	9+	2500	999.4	+22	W	5	bc	59	85	8	7	6	–	2.3	2.3	2500	0	3	bccp.r	cbc	bc	bcpr.bc
	Donaghadee	997.7	+4	SSW	4	c/bc	63	75	8	3	–	3	4.6	7.8	1500	1000.4	+10	SW	4	bc	63	65	8	8	3	–	2.3	2.3	1500	1	•	cbcpr	pr.	bc	bccPR
19	Birr Castle	999.2	+4	SW	2	bc	64	95	7	8	3	3	2.3	4.6	4000	1000.9	+6	SSW	2	bc	59	75	8	8	3	–	4.6	4.6	4000	0	1	bcc	PRbc	bcc	pr.bc
20	Valentia Obsy.	999.5	+4	SSW	3	c	60	75	8	8	–	1	4.6	7.8	2500	1001.1	+8	SSW	2	c	63	85	8	8	5	–	4.6	7.8	2500	1	•	bcc	cprcv	cpr	cpr
	Roches Point	1002.1	+6	SW	3	bc	60	75	8	8	–	–	4.6	4.6	1500	1003.5	+8	SW	4	bc	61	75	8	8	–	4	2.3	4.6	1500	0	4	bc	bc	bcvcw	cbcir

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, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ⊙, lunar halo.
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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

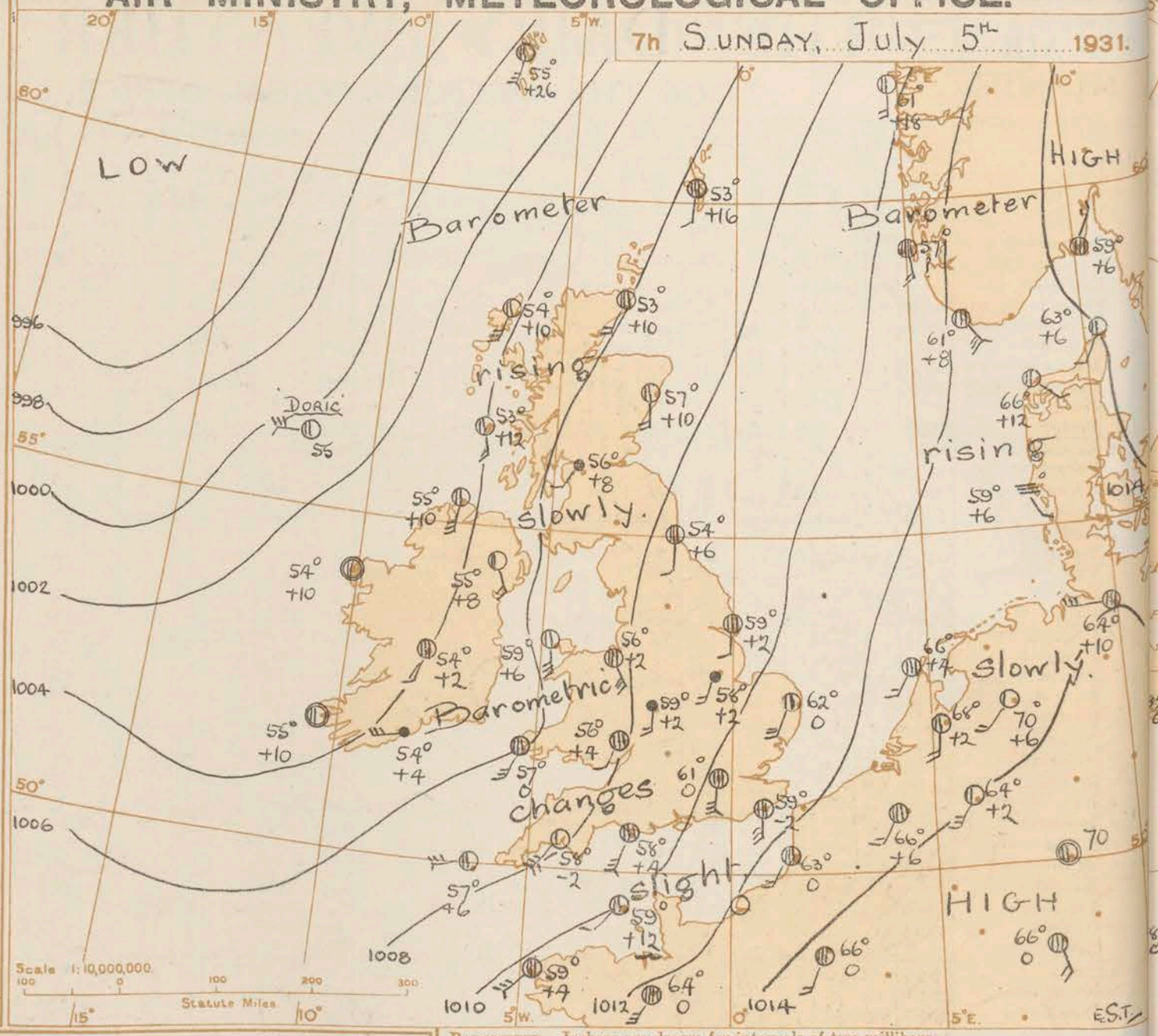
REPORTS from HEALTH RESORTS for ... July 4th ... 1931.

Division	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 3rd to 9h. 4th	Temperature. Max. 9h.—17h. 4th	Rainfall. Night. 17h. 3rd to 9h. 4th	Rainfall. Day. 9h.—17h. 4th	Sunshine. Sunrise to 17h. 4th	Sunshine. Sunrise to Sunset. 3rd
1	Tunbridge W.	oco	o	53	67	—	—	0.1	14.5
	Bournemouth	m	d	57	61	0.3	1	0.0	9.5
	Ventnor ...	rofof	omd	55	60	trace	0.5	0.0	6.1
	Southsea ...	o	od	58	65	trace	trace	0.1	9.5
	Bognor Regis	oc	codd	58	64	trace	0.3	0.0	11.1
	Littlehampton	c	cd	56	63	0.1	trace	0.0	10.7
	Worthing ...	oc	do	58	64	trace	trace	0.0	11.2
	Brighton ...	facb	eo	57	63	—	trace	0.2	10.7
	Eastbourne†	dcod	ocbcc	55	65	trace	trace	1.1	9.8
	Hastings† ...	fdom	omdcc	53	65	0.2	0.2	0.9	10.4
	Folkestone ...	omdo	omcbc	52	68	trace	—	3.4	10.0
	Dover... ...	moc	cbcc	54	65	—	—	1.1	9.2
	Deal	oc	bcc	53	70	—	—	3.2	12.8
	Ramsgate ...	cbc	bcc	53	71	—	—	3.3	12.6
	Margate ...	cbc	bcc	52	74	—	—	4.1	13.7
2	Southend ...	ocbc	oc	54	71	—	—	2.3	14.4
	Maldon ...	cbc	bcc	52	74	—	—	1.5	13.7
	Clacton-on-Sea	cbcc	c	54	70	—	—	2.4	14.3
	Dovercourt ...								
	Lowestoft ...	b	b	53	72	—	—	7.5	15.3
	Skegness ...	b	bor	60	75	—	1	5.4	14.3
	Mablethorpe	cbcv	cvorm	56	76	—	6	7.0	*
	Cleethorpes ...	cbco	rr	60	76	—	3	3.7	13.5
3	Leamington S.								
4	Cheltenham†	c	corro	59	68	trace	3	0.7	9.1
5	Bath	crr	rcr	60	67	trace	2	0.5	7.5
	Weymouth ...	mded	rce	58	61	trace	2	0.0	0.9
	Jersey ...	c	c	56	66	1	4	0.0	7.0
	Torquay ...	odrmo	dcmoc	58	64			0.0	?
	Penzance ...	orc	crbc	60	66	5	2	1.9	0.0
	St. Ives ...	odrob	c	57	64	1	3	1.9	1.3
	Bude	corr	cbc	58	63	2	3	5.9	0.7
	Ilfracombe ...	cor	rcbc	58	65	3	4	2.2	1.6
6	Aberystwyth	cbrbc	cbrbc	58	63	3	2	4.0	0.0
7	Llandudno ...	bcc	cbc	58	67	0.4	—	8.3	4.0
	Colwyn Bay...	bbcc	cb	58	68	trace	—	7.9	7.6
	Rhyl	bcc	cbc	59	69	—	—	8.7	5.5
8	Wallasey ...	bbc	bcbp	59	69	7	0.5	6.5	5.2
	Southport‖ ...	bco	orcb	58	66	5	0.6	6.5	3.5
	Blackpool ...								
	Morecambe ...	cbcbc	bcobc	58	66	?	—	6.0	0.9
9	Ilkley... ...	bc	cor	53	72	1	1	5.8	5.3
10	Berwick-on-T.	bcc	c	55	65	5	—	4.8	3.3
11	Dunbar ...	bcc	irbc	54	67	2	trace	4.8	3.3
12	Douglas ...	cbc	cbcdb	54	60	5	—	6.2	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h SUNDAY, July 5th 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 5th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Wind south to southwest, moderate; cloudy, occasional rain, then bright periods and showers; moderate temperature.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind between south and west, moderate; bright periods, showers; perhaps local thunder; moderate temperature.
9. N. Midlands 10. N.E. England	As 1 - 3.
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.	Wind south to southwest, light or moderate; bright periods, showers; moderate temperature.
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. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. = ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◯ Sky less than 1/10 clouded. ◐ Sky 1/10 to 5/10 clouded. ◑ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

The depression south of Iceland continues to fill up while a shallow trough west of Ireland is spreading slowly east. Winds will be mainly southwesterly moderate in force and weather rather unsettled with showers or occasional local rain and bright periods.

FURTHER OUTLOOK.

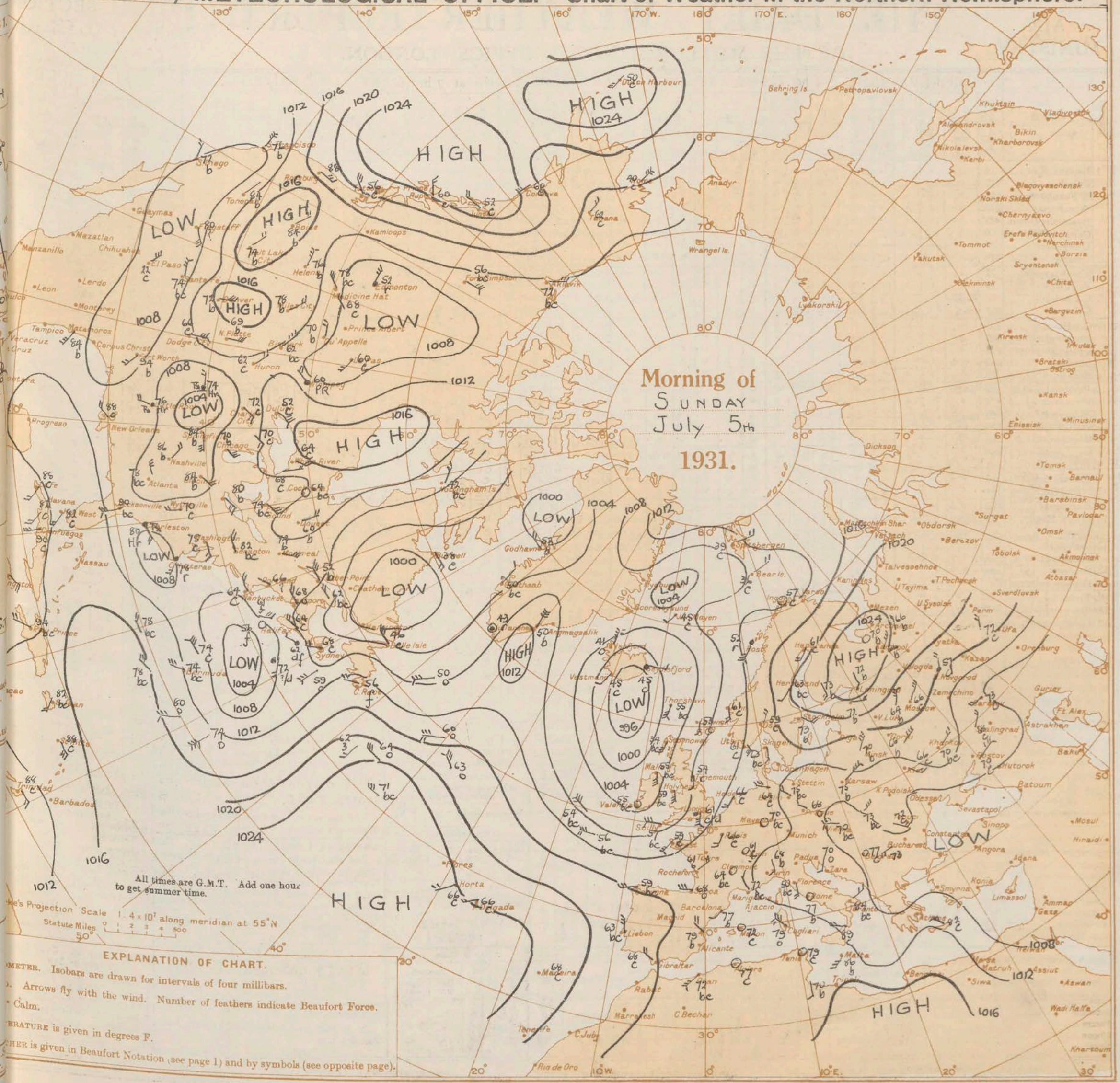
Little change.

Forecasts issued at 1000 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway W.C.2 Rd 302 20 11 W.78 8168 4-303 2/620 731

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 the wind. Number of feathers indicate Beaufort Force.
C Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, July, 5th 1931

No. 25,427

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

Dist.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1010.4	+2	WSW	1	c	59	95	7	5	2	-	7-8	9	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1010.3	-2	S'W	3	ir.	59	95	8	5	-	-	9+	9+	450
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1011.7	-2	S	2	of	59	95	3	5	-	-	10	10	<150
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1010.5 1009.5	+12	SW	3 1	bc	61	95	7	4	-	-	2-3	2-3	4000
	Cranwell ...	240	1009.1	+2	SWS	2	bc	58	95	6	-	3	-	0	4-6	-
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1009.1	0	SSW	4	F	57	95	1	5	-	-	10	10	<150
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1008.5	-10	SSW	4	ir	57	95	7	6	2	-	4-6	10	2500
	Scilly (St. Mary's)	163	1007.0	-10	SSW	4	c	57	95	7	8	-	-	7-8	7-8	4000
	Guernsey ...	175	1010.2	-10	-	0	rdc	59	95	6	6	-	-	10	10	1500
6	Pembroke ...	142	1006.1	0	SSW	2	bc	57	95	8	3	6	-	2-3	4-6	2500
7	Holyhead ...	26	1006.3	+2	S'E	4	c	56	95	7	5	-	2	4-6	9	5700
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1008.3	0	S'W	3	c	59	95	7	4	3	-	4-6	9+	4000
	Tynemouth ...	67	1006.7	+14	SSW	1	bc	55	95	6	2	-	-	2-3	2-3	2500
11	Inchkeith ...	190	1004.8	+14	SW	1	bc	54	85	8	5	-	9	1	2-3	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1001.2	+20	SW	3	bc	51	95	8	4	-	-	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1002.7	+20	SSW	4	bc	54	75	8	5	1	8	2-3	2-3	4000
16	Lerwick ...	54	1002.6	+20	SSW	1	b	53	85	8	1	-	-	1	1	2500
17	Blacksod Point	18	1001.5	0	SW	4	bc	57	75	7	3	-	-	4-6	4-6	800
18	Malin Head ...	52	1002.7	+6	S	1	bc	52	95	8	4	3	-	4-6	4-6	4000
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1003.0	-10	SW	3	c	55	85	7	5	-	-	9	9	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	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)
1009.6	-2	S	4	c	64	85	8	5	-	-	9+	9+	800	0	*
1010.0	0	S	4	dd	61	95	7	5	7	-	4-6	7-8	450	0	*
1009.1	-2	SSW	3	dd	61	95	7	5	6	-	10	10	450	1	*
1009.4	-2	SW'W	2	dd	58	95	6	6	-	-	10	10	220	1	*
1009.7	+2	SSE	1	c	57	95	6	5	7	-	4-6	9+	800	1	*
1009.9	+4	ESE	1	c	58	95	6	5	2	-	7-8	9+	450	1	1
*	*	S	4	c	*	*	7	5	1	*	7-8	9	4000	*	2
1011.4	-2	S'W	3	c	59	95	7	5	-	-	9	9	1500	0	*
1011.3	0	SSW	4	c	64	95	8	5	-	-	10	10	1500	0	*
1011.0	+2	ESE	4	bc	64	85	8	1	3	-	1	2-3	2500	0	2
1010.3	0	SSW	3	bc	62	95	6	6	7	-	2-3	4-6	2500	0	3
1009.3	+2	SSW	2	c	58	95	5	5	-	-	10	10	450	1	*
1009.4	0	SW	2	r	58	95	5	6	-	-	10	10	450	*	*
1008.7	+2	S	2	dd	59	95	7	6	2	-	4-6	9+	1500	1	*
1009.2	+4	-	0	dd	56	95	7	6	2	-	7-8	10	450	1	*
1009.1	+2	S	2	c	55	95	7	6	-	-	10	10	800	1	*
1008.3	+4	SSW	1	c	56	95	7	6	3	-	7-8	9	2500	1	*
1009.0	+4	SSW	4	c	58	95	7	4	4	-	4-6	7-8	2500	1	3
1007.9	-2	SW	5	b	58	85	8	9	7	-	Tr	Tr	800	1	4
1007.5	0	SW	3	bc	56	95	8	9	3	-	4-6	4-6	2500	1	2
1006.8	+6	W'S	4	bc	57	85	7	2	-	-	2-3	2-3	4000	1	2
1010.1	+12	SW	1	bc	59	95	6	5	7	-	4-6	4-6	1500	1	1
1005.7	0	SSW	3	c	57	95	7	9	-	-	7-8	7-8	2500	1	2
1007.1	+6	S'E	3	bc	59	85	7	9	8	-	2-3	4-6	1500	1	1
1007.7	+2	SE'S	3	bc	56	85	7	9	9	-	4-6	7-8	4000	1	*
1007.2	0	SE'E	3	bc	56	85	6	5	3	-	2-3	4-6	2500	1	*
1008.9	+10	S'E	1	r	55	95	4	6	2	-	9	10	<150	1	*
1008.8	+2	S'E	1	c	59	95	7	5	7	-	2-3	10	2500	0	2
1008.2	+6	S	1	c	54	95	6	6	-	-	7-8	7-8	1500	0	1
1006.5	+12	NNW	1	c	55	85	8	4	4	-	4-6	7-8	2500	0	0
1006.9	+14	S	1	c	59	85	8	4	6	8	2-3	7-8	5700	0	*
1006.4	+8	SW	1	pR	56	95	7	9	3	-	7-8	9+	2500	1	*
1007.2	+6	S	2	c/pr	54	95	8	6	1	-	7-8	10	1500	1	*
1004.1	+12	SSE	2	bc	53	95	8	5	6	-	2-3	4-6	2500	1	1
1003.9	+10	SSW	3	bc	54	85	8	1	5	9	2-3	4-6	4000	1	1
1005.3	+20	NE	1	c	52	85	6	5	5	-	7-8	10	2500	1	*
1006.7	+10	S'W	2	bc	57	85	9	5	4	-	1	4-6	4000	0	1
1005.0	+10	SSW	2	c	53	95	8	8	6	8	4-6	7-8	2500	0	2
1006.5	+16	S	1	c	53	85	7	5	7	-	4-6	7-8	1500	0	*
1002.9	+10	-	0	bc	54	85	9	7	-	-	4-6	4-6	2500	1	0
1003.4	+10	S	3	bc	55	85	7	7	8	-	2-3	2-3	1500	0	1
1004.8	+8	SSE	2	bc	55	85	8	7	3	2	1	4-6	1500	1	*
1005.3	+12	SW	1	bc	57	85	8	5	3	-	2-3	4-6	2500	0	0
1003.3	+2	SSW	1	c	54	95	8	8	4	-	4-6	7-8	2500	1	*
1003.9	+10	-	0	bc	55	85	8	8	3	-	4-6	4-6	1500	1	2
1004.5	+4	W	3	ir	54	95	8	6	-	-	4-6	4-6	1500	1	3

PAST 24 HOURS.

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 (36)
72	60	59	Tr	-	1
70	59	57	Tr	0.4	2
68	58	57	Tr.	0.5	0
65	57	56	0.5	6	0
65	55	54	1	5	0
65	58	57	0.3	3	0
65	58	*	-	-	1
67	57	57	Tr	-	1
72	60	59	-	-	3
72	62	57	Tr	-	3
74	59	56	-	-	6
74	53	49	8	0.4	4
*	*	*	*	*	2
67	53	53	8	3	2
69	56	52	1	8	0
67	53	49	3	5	0
67	55	53	10	3	3
60	56	*	0.4	7	2
60	56	54	8	2	0
64	55	*	5	10	1
64	55	*	4	-	2
67	57	57	1	7	0
61	55	*	Tr.	1	6
63	54	49	-	-	3
73	52	48	Tr	0.1	1
67	55	51	-	0.1	8
69	49	45	-	3	5
75	57	*	5	0.1	4
69	52	45	-	-	*
64	53	42	-	-	7
67	45	39	Tr	-	8
66	52	45	1	3	8
61	51	50	2	2	4
61	45	34	-	-	14
59	50	*	0.2	0.3	12
58	46	35	7	1	10
65	48	39	Tr.	Tr	7
62	50	*	-	-	*
56	51	*	1	-	3
60	49	*	2	6	*
62	50	*	1	0.4	13
66	51	45	1	1	12
66	51	*	3	0.1	*
65	49	40	0.6	3	11
63	49	44	0.4	6	13
63	53	*	-	4	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	c	c1c	cw	72	60	59	Tr	-	1.4	*	*	
CROYDON	217	c3c	cc1d	cdd m	70	59	57	Tr	0.4	2.5	*	*	5
GREENWICH (Royal Observatory) ...	149	c	cid	cid	75	59	57	Tr	Tr	1.4	78	82	7
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	2.1	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	71	61	58	-	-	2.6	78	80	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	2.5	*	*	*
CAMDEN SQUARE	110	c	c	*	74	61	58	-	0.3	*	*	84	*
KENSINGTON	80	c0	c0	*	74	61	56	-	Tr	1.6	At 18h. 83	89	*
HAMPSTEAD OBSERVATORY	450	cbcp	bcc	*	71	56	47	Tr	0.3	2.4	*	88	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 4th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 5th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
PARIS	1013.0	SSW	3	c	72	1014.3	SSW	2	c	66	73	61	-	Tr
BRUSSELS	1012.6	SW	2	c	66	1013.9	SSW	2	c	66	68	59	Tr	-
BERLIN	1007.8	WNW	2	c	81	1011.5	NW	2	bc	75	90	70	-	1
ZÜRICH	1015.2	SW	1	c	64	1016.0	E	1	bc	63	70	59	16	4
ROME						1010.7	-	0	b	77		64		-

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
0.5	7h to 8h 4th	NIL	15h 4th to 1h 5th

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

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 „	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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 6th. July 1931.

No. 25.428

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

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

PAST 24 HOURS.

District	Stations (For heights see p. 4.)	13h. Barom. at M.S.L. mb. (1)	13h. Change in 3 hours. (2)	13h. Wind. Direc. (3)	13h. Wind. Force 0-12 (4)	13h. Weather. (5)	13h. Temp. °F. (6)	13h. % Humid. (7)	13h. Visibility 0-9 (8)	13h. Cloud. Form. Low. (9)	Med. (10)	High (11)	Amount. Low 0-10 (12)	Total 0-10 (13)	13h. Height of Base. (feet) (14)
1	London (Kew)	1009·9	-2	SW	4	c	70	65	9	8	7	–	7-8	9+	1500
	Croydon	1009·7	-4	SSW	4	c	70	65	8	8	3	9	4-6	7-8	2500
	S. Farnborough	1010·0	+6	SSW	3	pr	67	65	8	8	3	1	7-8	9	2500
	Winchester	1009·9	+4	SSW	4	c	62	75	8	7	7	–	9	9+	2500
	Boscombe Down	1009·5	0	S'W	4	c	63	75	7	7	7	–	7-8	9+	1500
	Calshot, S'thmtn	1010·6	+2	SSW	3	c/pr	64	75	8	5	–	–	9+	9+	1500
	Dungeness	*	*	S	4	bc	*	*	7	7	3	*	2-3	4-6	4000
	Lympne	1010·9	0	S'W	4	bc	66	65	8	1	4	–	4-6	4-6	1500
2	Shoeburyness	1010·5	0	SSW	4	bc	74	75	8	7	–	–	4-6	4-6	4000
	Felixstowe	1010·8	-2	SSE	4	bc	70	75	9	1	3	–	4-6	4-6	2500
	Gorleston	1010·0	-4	S'E	5	bc	63	95	7	7	4	–	2-3	4-6	4000
	Cranwell	1008·9	-2	SSW	3	c	64	85	8	8	3	–	9	9+	1500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1007·9	-2	S	2	c	66	65	8	6	4	–	4-6	7-8	1500
	Upper Heyford	1008·9	0	SSW	4	c	66	65	8	8	7	–	4-6	7-8	1500
	Leafield	1008·6	0	S'W	5	bc	65	65	9	1	3	9	4-6	4-6	4000
4	Ross-on-Wye	1007·7	0	SW	3	c	66	65	8	2	–	6	4-6	9	4000
5	Portland Bill	1009·5	0	SSW	4	c	61	95	7	4	6	–	4-6	7-8	2500
	Plymouth	1008·8	+4	SW	4	bc	63	75	8	2	–	1	1	2-3	2500
	Falmouth	1008·3	+4	SW	4	q	61	75	8	8	–	–	4-6	4-6	4000
	Scilly (St. Mary's)	1008·0	+8	WSW	3	bc	63	75	7	2	4	–	2-3	4-6	4000
	Guernsey	1010·2	0	–	0	bc	64	85	8	5	4	–	4-6	4-6	2500
6	Pembroke	1006·9	+2	SWS	3	bc	61	85	8	2	8	–	2-3	4-6	2500
7	Holyhead	1007·1	+2	S'E	4	pr	60	85	8	8	–	–	9	9	1500
	Chester (Sealand)	1007·4	+2	SE'E	3	c	61	85	8	5	2	–	7-8	10	1500
8	L'pool (Bidston)	1007·4	+2	SSE	3	r$_o$r$_o$	60	85	8	6	2	–	4-6	10	1500
9	Harrogate	1007·9	-6	SE'E	2	c	63	75	6	3	–	–	7-8	7-8	2500
10	Spurn Head	1008·9	0	SE'S	2	c/d	60	95	7	3	3	–	2-3	10	4000
	Tynemouth	1008·3	0	SE	2	bc	58	85	7	2	–	–	4-6	4-6	2500
11	Inchkeith	1006·7	0	E	2	c	60	85	8	2	8	–	4-6	7-8	4000
12	Leuchars	1007·6	+2	E	3	bc	65	75	8	7	3	–	4-6	4-6	2500
	Renfrew	1006·6	+6	SW	2	c	65	65	8	2	3	–	7-8	7-8	4000
	Eskdalemuir	1006·8	0	SW	2	c	63	65	8	2	7	–	4-6	7-8	2500
13A	Tiree	1007·1	+12	SSW	3	bc	62	85	8	5	6	6	2-3	4-6	4000
13B	Stornoway	1005·6	+10	SE	3	bc	58	85	8	2	7	1	4-6	4-6	4000
15	Dalwhinnie	1005·9	+4	S	1	c	60	65	8	1	4	–	7-8	10	4000
	Aberdeen	1007·9	+4	S	3	c	64	65	8	2	4	1	1	10	4000
16	Lerwick	1006·0	+8	SSE	2	bc	56	85	8	2	9	3	Tr.	4-6	4000
17	Blacksod Point	1005·8	+20	NW	3	bc	59	75	9	7	4	–	2-3	4-6	1500
18	Malin Head	1005·0	+10	N	3	ir$_o$	56	95	6	9	7	–	9	9+	1500
	Aldergrove	1004·7	-2	S'E	3	jp	64	65	8	8	3	3	7-8	9	1500
	Donaghadee	1006·0	+6	SSE	2	bc	58	85	8	7	3	2	2-3	4-6	2500
19	Birr Castle	1003·9	+6	SSW	1	c	61	75	8	3	–	–	9+	9+	2500
20	Valentia Obsy.	1006·4	+14	WNW	4	bc	57	75	8	8	3	–	4-6	4-6	1500
	Roches Point	1005·4	+8	W	3	bc	60	75	9	3	–	–	4-6	4-6	1500

District	Stations	18h. Barom. at M.S.L. mb. (15)	18h. Change in 3 hours. (16)	18h. Wind. Direc. (17)	18h. Wind. Force 0-12 (18)	18h. Weather. (19)	18h. Temp. °F. (20)	18h. % Humid. (21)	18h. Visibility 0-9 (22)	18h. Cloud. Form. Low. (23)	Med. (24)	High (25)	Amount. Low 0-10 (26)	Total 0-10 (27)	18h. Height of Base. (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1010·1	+2	S'E	2	ir$_o$	66	75	8	8	7	–	4-6	9+	2500	1	*
	Croydon	1010·1	+2	SW'S	3	c	64	75	8	5	7	–	2-3	9+	2500	0	*
	S. Farnborough	1009·8	-6	S	2	c	64	75	8	5	–	–	9+	9+	2500	1	*
	Winchester	1009·9	-2	S	4	c	62	75	8	7	3	5	4-6	9+	2500	0	*
	Boscombe Down	1009·6	+2	SSW	4	c	63	65	8	7	–	2	2-3	7-8	4000	0	*
	Calshot, S'thmtn	1010·7	0	SSW	3	c	62	85	8	5	3	1	4-6	9+	2500	0	1
	Dungeness	*	*	SW'W	2	bc	*	*	7	4	4	*	Tr.	4-6	4000	*	1
	Lympne	1010·0	-6	W	1	c/r	64	85	8	5	7	–	4-6	7-8	2500	1	*
2	Shoeburyness	1010·3	0	SSW	3	c	67	85	8	8	7	–	4-6	9+	4000	0	*
	Felixstowe	1010·6	-2	S	3	c	68	75	9	7	3	1	2-3	7-8	4000	0	2
	Gorleston	1010·5	+2	S	4	c	66	85	7	–	3	9	0	7-8	–	0	3
	Cranwell	1008·5	0	SSW	3	c	66	65	8	7	3	–	9	9+	5700	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1007·8	+2	S	3	pr	66	65	8	6	–	1	4-6	7-8	1500	1	*
	Upper Heyford	1009·4	+6	S'W	4	c	64	75	8	7	1	–	4-6	7-8	2500	1	*
	Leafield	1009·1	0	S'W	4	bc	64	65	9	1	3	5	1	2-3	4000	0	*
4	Ross-on-Wye	1008·7	0	S W	2	c	62	75	8	2	–	2	4-6	7-8	4000	1	*
5	Portland Bill	1009·9	+4	SSW	4	bc	59	95	8	2	4	4	2-3	4-6	2500	0	3
	Plymouth	1009·2	+2	S W	3	b	61	85	9	2	–	–	1	1	2500	0	2
	Falmouth	1009·2	+6	SW	4	bc	61	75	8	8	–	–	4-6	4-6	4000	0	2
	Scilly (St. Mary's)	1008·6	+6	WSW	2	c	61	85	8	2	6	–	4-6	7-8	4000	1	1
	Guernsey	1010·4	0	–	0	bc	65	65	9	5	7	–	4-6	4-6	2500	1	1
6	Pembroke	1007·9	+8	S	2	bc	60	85	8	3	5	4	2-3	4-6	1500	0	1
7	Holyhead	1007·8	+4	S'W	4	u	58	85	9	3	6	2	1	2-3	2500	1	1
	Chester (Sealand)	1007·7	+6	NW	2	bc/fg	64	75	8	3	–	1	4-6	4-6	2500	1	*
8	L'pool (Bidston)	1007·7	+10	NW'W	1	bc/pr	61	95	8	3	3	9	2-3	4-6	2500	2	*
9	Harrogate	1007·7	0	S'E	1	b	63	75	7	2	–	9	1	1	2500	1	*
10	Spurn Head	1008·3	-2	S E	4	c	60	95	7	2	4	1	4-6	7-8	2500	0	3
	Tynemouth	1008·4	-4	SSE	2	c	56	95	7	6	–	–	7-8	7-8	1500	0	2
11	Inchkeith	1007·3	0	SSE	2	c	57	85	7	8	2	–	7-8	10	2500	0	1
12	Leuchars	1007·7	0	ESE	3	c	60	85	7	7	8	6	4-6	7-8	2500	0	*
	Renfrew	1007·4	+6	W	1	pr	61	85	8	8	–	–	9+	9+	4000	1	*
	Eskdalemuir	1007·8	+6	WSW	2	rr	57	85	7	5	2	–	9	10	1500	1	*
13A	Tiree	1006·8	+6	N'E	1	c	56	95	7	5	2	–	4-6	9	1500	1	1
13B	Stornoway	1007·8	+8	–	0	c	59	85	8	8	9	6	4-6	7-8	4000	0	0
15	Dalwhinnie	1007·1	+8	E	1	c	54	85	8	5	4	–	4-6	10	4000	1	*
	Aberdeen	1008·6	+6	SSE	3	bc	59	75	7	5	5	6	1	4-6	4000	0	1
16	Lerwick	1008·1	+8	SSE	3	c	57	85	8	2	5	1	1	7-8	4000	0	2
17	Blacksod Point	1010·1	+10	S	1	m	54	95	4	5	–	–	9	9	800	0	*
18	Malin Head	1007·7	+10	NW	3	bc	58	65	9	5	6	–	2-3	4-6	2500	0	3
	Aldergrove	1006·0	+6	NE	1	c	55	95	7	8	–	–	9+	9+	2500	0	1
	Donaghadee	1005·9	+6	–	0	c/pr	58	85	8	9	7	3	7-8	9	800	1	*
19	Birr Castle	1006·1	0	S	2	bc	57	85	8	7	3	2	1	4-6	2500	0	1
20	Valentia Obsy.	1005·3	+6	SSW	1	pr	60	85	8	3	–	–	10	10	2500	1	*
	Roches Point	1007·6	+10	NW	2	c	60	75	8	8	–	9	4-6	7-8	1500	0	3

District	Stations	Past 24 hours. Weather. 7h.–13h. 5th (37)	13h.–18h. 5th (38)	18h. 5th to 1h. 6th (39)	1h.–7h. 6th (40)
1	London (Kew)	cddcv	cir$_o$	c	ccr$_o$rm
	Croydon	odd m$_o$c	cr$_o$c	cw	cwr$_o$
	S. Farnborough	ord$_o$c	cp$_o$	cbc	becp
	Winchester	oprc	ccpr$_o$	c	eifr$_o$
	Boscombe Down	crm$_o$	c	c,b,c	com$_o$
	Calshot, S'thmtn	c	cp$_o$r	bcw	bcwcpr
	Dungeness	bc	o	*	p
	Lympne	cd$_o$bc	bcycr	cprrlf	cof
2	Shoeburyness	cbc	bcc	cp	bcp
	Felixstowe	bccbcy	bcy	bcRR	crrc
	Gorleston	bccbc	bcq	clorr	c
	Cranwell	ddid$_o$	c	c	cbcm$_o$
3	Cardington	*	*	*	*
	Birmingham	bcpur	bcpr	bcc	bbc cbc
	Upper Heyford	cr$_o$,r$_o$bc	bccbc	bc	bccfp$_o$
	Leafield	ir$_o$cbcv	bcy	bc	bcc
4	Ross-on-Wye	ccp$_o$bc	bccpbc	p$_o$bccp	bfcF
5	Portland Bill	cc	cbcbc	bcc	c,w,c
	Plymouth	cb	bcb		cprbw
	Falmouth	bcr$_o$q	bc	bc	bc
	Scilly (St. Mary's)	bcp$_o$	bccp$_o$	cpbc	bccp
	Guernsey	cprbc	bc	bccpr	bc
6	Pembroke	cprbc	bcp$_o$	bcp$_o$	bcbw
7	Holyhead	p$_o$rpr	cbcu	bbcw	bbcwc
	Chester (Sealand)	cr$_o$Rm$_o$	prTlr	bcw	cwm,bc
8	L'pool (Bidston)	cpr$_o$	ctlrp	b$_o$cb	bWb$_o$w
9	Harrogate	rrcbc	t$_o$lRb	bbc	bcc
10	Spurn Head	czrc	bc	bc	cr$_o$
	Tynemouth	oir$_o$bc	bc	oirtbco	oiFir
11	Inchkeith	c	ir$_o$c	tlrc	cFw
12	Renfrew	cwcbc	bcc	cprof	afefe
	Eskdalemuir	cprc	bccp	cp$_o$bcw	Abcwcm
13A	Tiree	c	ccr	erbc	bcc
13B	Stornoway	bc	bccd$_o$	cr$_o$	or$_o$bc
15	Dalwhinnie	bc	bcc	c	c
	Aberdeen	bc	phr		rf
16	Lerwick	bcb	bbc	bcc	cfft
17	Blacksod Point	cbc	bc	bc	bc F
18	Malin Head	cz$_o$	cfe,cm$_o$	cmffm	coffda
	Aldergrove	bc	bc	bc	bc
	Donaghadee	bccR	cir$_o$c	cjpc	cir$_o$
	Valentia Obsy.	bcpr	tlPRp$_o$r	p$_o$r	em$_o$
	Roches Point	bc	bc	bcc	coffe
19	Birr Castle	cpr	cpr	cPRtlpr	cprcbc
20	Valentia Obsy.	bcrbc	bc	bcb	blwbc
	Roches Point	irbc	bcvp$_o$c	cvcir	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered).
c, generally cloudy.
d, drizzle.
e, wet air.
g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
f$_s$, fog over sea (coast station).
f$_g$, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail.
i, intermittent.
jp, precipitation within sight of station.
k$_s$, 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).

⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 1/10 of the sky.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

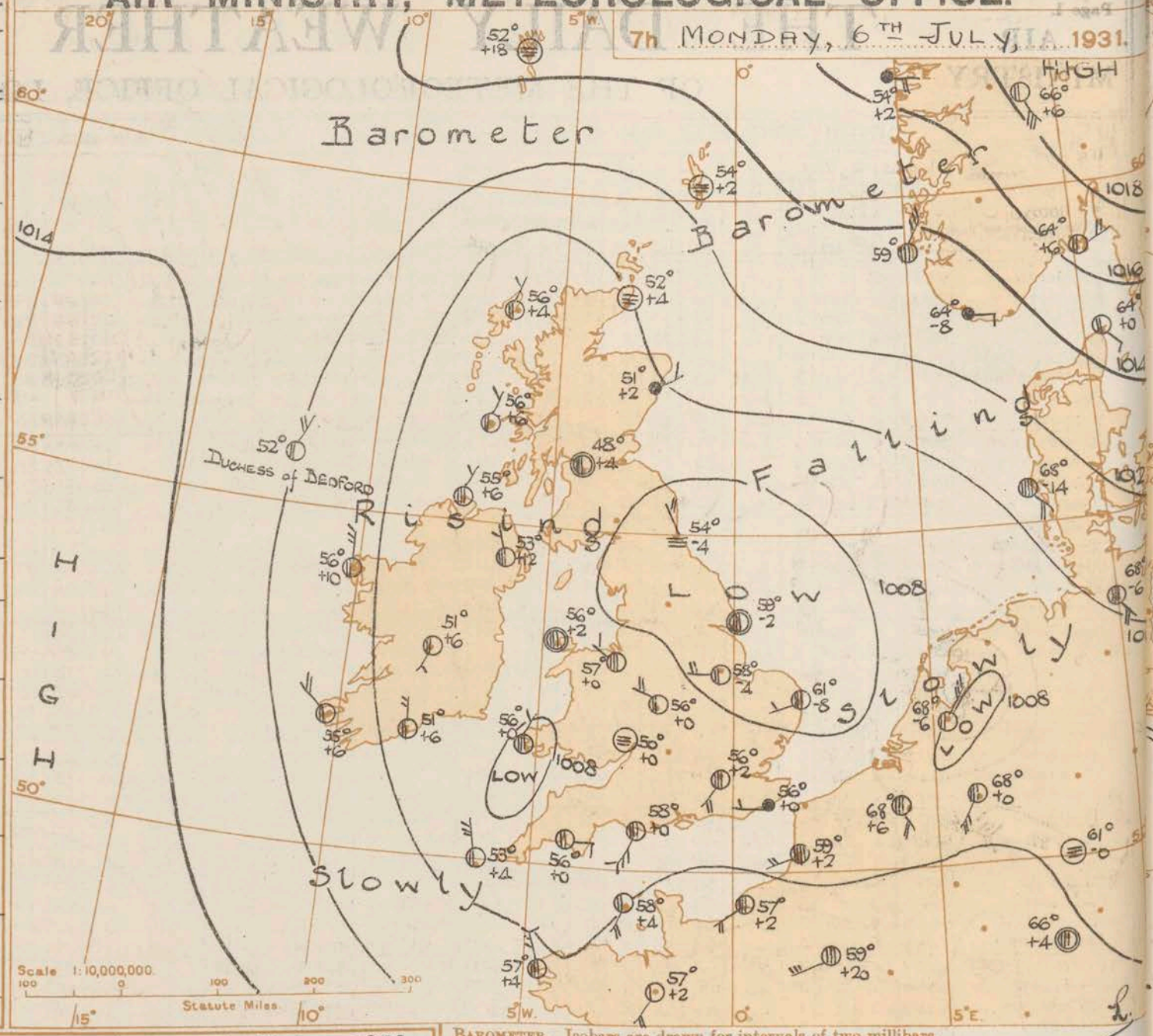
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 5H July 1931.

Districts	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 4H to 9h. 5H	Temperature. Max. 9h.—17h. 5H	Rainfall. Night. 17h. 4H to 9h. 5H	Rainfall. Day. 9h.—17h. 5H	Sunshine. Sunrise to 17h. 5H	Sunshine. Sunrise to Sunset. 4H
1	Tunbridge W.	cbcc	oroc	59	70	0·5	0·3	4·5	0·1
	Bournemouth	occ	cbcc	56	67	4	–	4·0	0·0
	Ventnor ...	rcpcf	cf	56	63	5	Trace	1·0	0·0
	Southsea ...	cc	ocpo	58	67	2	Trace	1·6	0·1
	Bognor Regis	bccbc	oirn	59	64	1	Trace	1·1	0·0
	Littlehampton	c	cipc	58	62	0·1	0·2	0·7	0·0
	Worthing ...	c	cdoc	60	65	0·5	Trace	1·6	0·1
	Brighton ...	bcp	bcpc	59	64	Trace	1	4·2	0·2
	Eastbourne†	ocbcc	codirac	59	67	0·5	0·6	4·8	1·1
	Hastings† ...	ocbc	bccor	59	67	1	1	1·2	1·0
	Folkestone ...	cocbc	bccr	59	72	–	Trace	4·8	4·0
	Dover... ...	cbcc	cbccr	58	67	–	Trace	6·2	1·9
	Deal	cob	bcop	59	74	–	Trace	6·2	3·8
	Ramsgate ...	bc	bc	59	70	–	–	6·5	3·6
	Margate ...	cbc	bc	60	75	–	–	7·6	4·3
2	Southend ...	c	cor	61	71	–	Trace	1·7	2·3
	Maldon ...	ncbc	bcc	58	76	Trace	–	3·0	1·5
	Clacton-on-Sea	cbcc	cbcc	61	70	–	–	6·5	2·6
	Dovercourt ...								
	Lowestoft ...	b	b	58	67	–	–	8·5	7·9
	Skegness ...	robc	b	58	65	9	Trace	3·0	5·4
	Mablethorpe	orcv	cv	56	66	7	0·3	1·0	7·0
	Cleethorpes ...	orrm	novc	55	68	4	Trace	1·7	3·7
3	Leamington S.	cbc	bcb	56	70	4	–	5·7	2·7
4	Cheltenham†	cbc	bc	55	70	5	–	5·2	1·9
5	Bath	cbc	bcb	57	69	10	–	7·0	0·6
	Weymouth ...	cb	bcbb	56	65	8	–	7·8	0·3
	Jersey ...	cd	cdbc	57	66	1	1	2·5	0·0
	Torquay ...	pc	bcpb	57	67	2	TRACE	8·4	0·5
	Penzance ...	bpr	bpr	57	65	2	0·3	9·0	1·9
	St. Ives ...	p	p	57	65	1	0·3	6·7	2·0
	Bude	rbcpr	prbc	54	63	4	3	4·8	6·1
	Ilfracombe ...	cpc	bcpbc	57	64	3	2	3·2	2·8
6	Aberystwyth	ccir	cprbc	56	65	1	1	5·4	6·1
7	Llandudno ...	ccrc	pcbc	56	66	–	3	5·3	10·8
	Colwyn Bay...	bccro	orbcb	56	64	–	1	4·8	10·9
	Rhyl	bcpr	cprc	54	67	–	3	3·7	11·6
8	Wallasey ...	bbcp	pbHr	55	66	0·3	11	3·2	9·1
	Southport‖ ...	coc	ctlrc	54	67	–	1	3·1	9·5
	Blackpool ...	cc	pt	53	67	–	1	3·3	9·2
	Morecambe ...	cbcbc	cprbp	51	68	–	2	3·0	9·3
9	Ilkley... ...	robcc	ocpc	48	67	5	1	1·6	5·8
10	Berwick-on-T.	c	c	51	63	–	–	2·3	6·8
11	Dunbar ...	bc	bcmo	53	68	–	–	4·7	7·6
12	Douglas ...	cbc	circb	53	63	–	1	4·4	8·2

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/10 clouded. ◕ Sky 7/10 to 1/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
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 July, 1931.
1. S.E. England	Light or moderate southwesterly wind; variable sky; occasional rain or showers of a thundery type; moderate temperature.
2. E. England...	
3. E. Midlands	Light westerly or variable wind; variable sky; occasional rain or showers of a thundery type; moderate temperature; perhaps local morning fog.
4. W. Midlands	
5. S.W. England	Light northerly or variable wind; bright intervals; local occasional thundery rain or showers; moderate temperature; perhaps local morning fog.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	Light or moderate easterly to northerly wind; occasional rain or showers and perhaps thunder; moderate temperature; local coastal fog.
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	
13. A. W. Scotld. B. N.W. Scotland.	Light or moderate northerly wind; variable sky; perhaps thundery rain or showers; moderate temperature.
14. Mid-Scotland	Light or moderate easterly to northerly wind; variable sky; occasional rain or showers; local coastal fog; moderate temperature.
15. N.E. Scotland	
16. Orkneys and Shetlands.	
17. N.W. Ireland	Light or moderate northerly wind; variable sky; local showers or occasional rain of a thundery type; moderate temperature.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

GENERAL INFERENCE.

A shallow low-pressure area over the British Isles is likely to move slowly east. Weather will be somewhat unsettled with local showers or occasional rain of a thundery type.

FURTHER OUTLOOK.

Showers; brighter periods.

Forecasts issued at 0920 G.M.T.

C. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2. Pe 302 22 7/31 W 75 B 6/31 24308 3/1520 7/31

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

Morning of
Monday.
6th July.
1931.

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

Lambert's Projection Scale 1·4 × 10⁷ along meridian at 55°N

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.
○ Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 6th July 1931.

No. 25,428

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

Distrct.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low. 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1010.1	-4	S	1	c	55	95	7	5	7	-	2-3	7-8	4000
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1010.4	-4	SW	2	bc	55	95	8	5	7	-	4-6	4-6	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	10099	0	WNW	2	c/pr	57	95	7	-	9	-	0	9	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	10089	-10	ESE	1	c	61	95	7	6	2	-	7-8	10	1500
	Cranwell ...	240	1008.7	-4	SW	2	c	57	95	7	5	2	-	2-3	10	5700
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	10094	-4	SSW	3	c	57	95	8	4	4	-	4-6	9	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	10099	-2	-	0	bc	54	95	8	3	-	-	2-3	2-3	4000
	Scilly (St. Mary's)	163	10095	0	WNW	3	bc	53	95	8	2	-	-	4-6	4-6	4000
	Guernsey ...	175	1011.1	-8	-	0	bc	55	95	8	7	-	-	4-6	4-6	2500
6	Pembroke ...	142	10083	+4	S	1	bc	55	85	8	8	-	-	4-6	4-6	2500
7	Holyhead ...	26	10085	0	S'E	2	bc	53	95	8	4	8	2	1	2-3	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	10084	0	S'W	1	r	59	95	7	6	-	-	10	10	2500
	Tynemouth ...	67	10092	+4	-	0	of	54	95	3	6	-	-	10	10	1500
11	Inchkeith ...	190	10085	+8	ENE	1	c	53	95	8	5	2	-	4-6	10	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	10091	+4	-	0	c	53	95	7	4	2	-	4-6	9	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	10092	+8	SSE	2	bc	53	95	8	8	6	8	2-3	4-6	4000
16	Lerwick ...	54	10124	+6	-	0	m	52	95	4	5	-	-	10	10	220
17	Blacksod Point	18	10093	+4	NW	2	bc	49	85	8	7	-	-	2-3	2-3	2500
18	Malin Head ...	52	10073	+2	N	1	ir$_o$	54	95	7	9	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1010.3	0	W	4	c	54	85	8	3	-	-	7-8	7-8	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Distrct.	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1009.2	-2	W'S	3	c	56	85	6	6	7	-	4-6	9+	1500	1	*
	Croydon ...	1009.5	+2	SW'W	2	c	56	95	6	5	7	-	4-6	9	1500	1	*
	S. Farnborough	1009.1	0	S	1	c	55	95	6	5	8	-	9	10	2500	1	*
	Winchester ...	1009.3	+4	S	2	c	54	95	6	6	-	-	10	10	4150	1	*
	Boscombe Down	1009.5	0	SW	2	c	53	95	7	9	-	-	10	10	4150	0	*
	Calshot, (S'thmtn)	1010.3	0	NW	2	PRC	56	95	7	9	-	-	9	9	1500	1	*
	Dungeness ...	*	*	W	1	c	*	*	*	9	-	-	7-8	7-8	2500	*	0
	Lympne ...	1009.0	0	W	1	pr	56	95	7	9	-	-	9	9	2500	1	*
2	Shoeburyness	1008.8	0	W	2	c	58	85	7	7	6	9	2-3	7-8	4000	1	*
	Felixstowe ...	1008.3	0	WNW	2	c	61	75	7	6	7	9	2-3	7-8	2500	1	0
	Gorleston ...	1007.3	-8	WSW	1	c	61	95	6	6	-	-	9	9	2500	1	*
	Cranwell ...	1007.4	-4	W	2	bc	58	85	6	9	-	8	0	4-6	-	1	0
3	Cardington ...	1008.3	0	SW	3	c	55	95	7	5	3	-	4-6	7-8	1500	*	*
	Birmingham ...	1008.3	0	WNW	2	c	56	85	6	6	7	-	0	4-6	-	1	*
	Upper Heyford	1008.5	-6	WSW	1	pr	53	95	6	9	9	-	4-6	9	450	1	*
	Leafield ...	1008.7	0	SW	2	c	53	95	7	5	7	-	7-8	9+	4000	0	*
4	Ross-on-Wye ...	1009.1	0	-	0	F	50	95	-	5	3	-	0	7-8	-	1	*
5	Portland Bill....	1008.6	0	SSW	4	c	58	95	8	3	6	9	4-6	7-8	2500	0	3
	Plymouth ...	1008.9	0	E	1	bc	56	85	8	3	8	3	1	2-3	2500	0	3
	Falmouth ...	1009.4	+2	-	0	c	55	85	8	3	8	-	7-8	7-8	4000	0	0
	Scilly (St. Mary's)	1008.5	+4	NNW	3	bc	53	95	8	3	3	-	4-6	4-6	2500	1	1
	Guernsey ...	1010.1	+4	SSW	2	bc	58	85	8	2	-	-	4-6	4-6	1500	1	1
6	Pembroke ...	1007.8	0	NE	1	c/p	56	95	7	9	7	9	4-6	7-8	1500	0	1
7	Holyhead ...	1008.6	+2	-	0	c	56	95	7	5	8	9	4-6	7-8	800	0	0
	Chester (Sealand)	1008.4	0	W'N	1	c	57	85	6	8	-	-	4-6	7-8	4000	1	*
8	L'pool (Bidston)	1008.3	0	WNW	2	bc	56	85	8	7	-	-	2-3	4-6	4000	0	*
9	Harrogate ...	1007.6	0	S'W	1	c	56	85	7	5	4	2	-	4-6	9+	1	*
10	Spurn Head ...	1007.0	-2	-	0	c	59	95	7	5	4	3	-	4-6	7-8	0	0
	Tynemouth ...	1007.5	-4	NNW	2	of	54	95	7	5	8	-	-	10	10	800	1	2
11	Inchkeith ...	1008.9	+6	N	1	fog	51	95	7	-	-	-	-	10	10	4150	1	*
	Leuchars ...	1009.2	+6	-	0	fog	55	95	7	-	-	-	-	10	10	4150	1	*
12	Renfrew ...	1009.6	+4	-	0	wc	48	95	7	-	-	-	-	0	9	-	1	*
	Eskdalemuir ...	1008.6	0	NE	1	c	53	95	7	5	-	-	7-8	9+	4000	1	*
13A	Tiree	1009.7	+6	NNE	1	bc	56	95	8	5	6	-	2-3	2-3	2500	1	1
13B	Stornoway ...	1009.4	+4	NNE	1	bc	56	95	8	7	-	-	2-3	4-6	2500	0	0
15	Dalwhinnie ...	1006.6	+6	-	0	fog	51	95	8	-	-	-	0	0	-	0	*
	Aberdeen ...	1010.0	+2	ENE	1	fog	51	95	8	-	-	-	10	10	4150	1	1
	Wick	1009.8	+4	-	0	F	52	95	8	-	-	-	10	10	4150	0	2
16	Lerwick ...	1012.1	+2	-	0	F	54	95	8	-	-	-	10	10	4150	1	*
17	Blacksod Point	1011.0	+10	N	3	bc	56	95	9	7	-	-	4-6	4-6	2500	0	3
18	Malin Head ...	1008.1	+6	NE	1	c/p	55	95	6	9	3	-	9	9+	1500	1	0
	Aldergrove ...	1009.0	+12	NNW	1	f	55	95	7	9	-	-	9+	9+	450	1	*
	Donaghadee ...	1008.3	+8	NNE	1	f	52	95	7	5	-	-	10	10	800	0	0
19	Birr Castle ...	1009.1	+6	SW	1	bc	51	95	8	-	4	-	0	2-3	-	1	*
20	Valentia Obsy.†	1011.0	+6	NW	2	bc	55	75	8	8	-	1	4-6	4-6	2500	1	2
	Roches Point...	1009.8	+6	N	2	bc	51	95	8	8	-	-	2-3	+6 2-3	1500	0	2

PAST 24 HOURS.

Distrct.	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 Hrs. (36)
1	London (Kew)...	71	56	51	0·6	1	1·7
	Croydon ...	71	54	53	0·2	1	3·1
	S. Farnborough	69	51	40	1	1	1·7
	Winchester ...	65	53	51	0·1	0·2	4·1
	Boscombe Down	66	51	41	0·2	-	*
	Calshot, (S'thmtn)	65	54	48	Tr	1	3·6
	Dungeness ...	65	53	*	0·5	3	*
	Lympne ...	70	53	53	0·2	2	3·4
2	Shoeburyness	74	54	48	-	0·4	4·2
	Felixstowe ...	71	60	58	-	3	7·3
	Gorleston ...	69	59	58	-	8	8·3
	Cranwell ...	71	54	52	2	-	4·4
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	68	50	41	1	-	7·7
	Upper Heyford	69	52	45	1	0·2	*
	Leafield ...	67	49	39	0·4	-	8·8
4	Ross-on-Wye ...	67	47	40	0·3	0·3	4·2
5	Portland Bill....	61	56	*	-	-	*
	Plymouth ...	64	52	46	-	0·3	12·8
	Falmouth ...	62	50	*	2	-	12·8
	Scilly (St. Mary's)	65	51	*	2	4	11·7
	Guernsey ...	67	54	51	0·1	0·5	6·7
6	Pembroke ...	62	52	*	1	0·2	10·5
7	Holyhead ...	64	53	46	0·4	-	10·0
	Chester (Sealand)	67	47	42	0·5	-	3·8
8	L'pool (Bidston)	66	53	49	13	0·1	6·1
9	Harrogate ...	67	52	48	4	-	4·9
10	Spurn Head ...	62	58	*	5	Tr.	2·6
	Tynemouth ...	61	53	53	0·6	2	*
11	Inchkeith ...	65	50	44	Tr	2	5·6
	Leuchars ...	66	53	53	-	2	8·0
12	Renfrew ...	67	43	36	1	Tr.	6·3
	Eskdalemuir ...	64	44	38	3	1	2·6
13A	Tiree	62	52	49	0·5	2	7·4
13B	Stornoway ...	60	51	*	-	-	12·0
15	Dalwhinnie ...	64	51	40	1	7	6·5
	Aberdeen ...	64	51	51	-	Tr.	8·1
	Wick	58	51	*	-	-	*
16	Lerwick ...	59	51	*	-	2	4·8
17	Blacksod Point	60	48	*	0·1	-	*
18	Malin Head ...	59	54	*	12	1	5·5
	Aldergrove ...	64	48	40	15	0·3	5·8
	Donaghadee ...	61	51	*	-	-	*
19	Birr Castle ...	62	46	41	3	17	3·6
20	Valentia Obsy.†	60	47	39	-	Tr.	10·3
	Roches Point...	63	48	*	1	3	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cddcv	cir$_o$	cr$_o$rm	71	56	51	0·6	1	1·7	*	*	6
Croydon	317	oddm$_o$c	cr$_o$c	cwr$_o$	71	54	53	0·7	1	3·1	*	*	6
Greenwich (Royal Observatory) ...	149	cld$_o$	cir$_o$ay	cr$_o$	78	55	45	Tr.	0·5	3·5	57	73	*
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3·3	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	72	56	54	*	1	2·6	57	85	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	1·9	*	*	*
Camden Square	110	cdc	c	*	73	55	54	Tr.	2	*	*	89	*
Kensington	80	obc	co	*	71	55	51	-	1	2·3	At 18h. 70	88	*
Hampstead Observatory	450	od bcp	bcpbc	*	69	51	40	0·3	2	2·9	*	91	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·2	6h 6th	NIL	12h 5th to 1h 6th

Kew Observatory. Max.	Time.	Min.	Time.
0·1	6h 6th	<0·1	rest of period

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 5th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 6th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris						1011·7	WSW	3	c	59		59		1
Brussels						1008·4	SSE	2	c	68		59		5
Berlin	1011·9	WNW	1	ir$_o$	40	1010·2	ENE	1	fog	68	84	66	(13)	1
Zürich						1011·2	NW	1	bc	64		59		-
Rome	1010·1	W	4	bc	84	1012·1	-	0	b	75	90	64	-	-

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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

TUESDAY 7th July 1931.

No. 25429

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1008·8	-4	SW	3	c	65	55	8	8	7	-	4·6	7·8	4000
	Croydon	1008·9	-2	SW	3	bc	65	55	8	8	7	-	4·6	4·6	2500
	S. Farnborough	1008·7	-2	SSW	2	bc/pr	62	75	8	8	-	3	2·3	2·3	2500
	Winchester	1008·2	-6	S	4	c	64	65	8	2	-	-	7·8	7·8	4000
	Boscombe Down	1008·3	-6	S	4	c/p	60	75	7	3	-	-	7·8	7·8	2500
	Calshot, S'thmtn	1009·9	-6	SSW	4	bc	65	65	8	8	-	-	4·6	4·6	2500
	Dungeness	*	*	SW	4	bc	*	*	7	8	4	*	2·3	4·6	4000
	Lympne	1008·8	-4	SWS	4	b	65	65	9	2	-	-	1	1	2500
2	Shoeburyness	1008·4	-2	SW	3	bc	67	55	8	4	-	-	4·6	4·6	4000
	Felixstowe	1008·0	-2	SW	3	bc	69	45	8	8	-	1	4·6	4·6	2500
	Gorleston	1007·1	0	SW	3	c	65	75	6	2	-	-	7·8	7·8	2500
	Cranwell	1006·9	-2	WSW	3	bc	65	55	X8	8	6	-	2·3	4·6	4000
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1007·4	-4	SW	2	bc	62	55	8	8	-	-	4·6	4·6	2500
	Upper Heyford	1008·1	-6	S	2	pr	60	85	8	3	-	-	4·6	4·6	2500
	Leafield	1007·4	-6	SSW	3	c	62	65	9	3	-	-	7·8	7·8	5700
4	Ross-on-Wye	1008·1	0	WNW	2	c/tlr.	59	75	8	3	4	3	2·3	7·8	4000
5	Portland Bill	1008·4	-2	SWS	4	bc	60	80	8	3	4	2	2·3	4·6	2500
	Plymouth	1008·2	-2	SSW	3	bc	59	75	8	3	3	3	2·3	4·6	4000
	Falmouth	1009·0	-2	WNW	4	c	60	75	8	2	3	8	2·3	7·8	4000
	Scilly (St. Mary's)	1009·7	+2	NWW	4	c	59	85	8	3	6	1	4·6	7·8	4000
	Guernsey	1009·3	0	SW	3	bc	61	75	8	2	-	-	4·6	4·6	2500
6	Pembroke	1007·8	-2	WNW	2	c/pr	59	85	9	8	8	9	4·6	7·8	1500
7	Holyhead	1008·4	-4	NW	3	t	59	85	8	3	-	3	4·6	7·8	1500
	Chester (Sealand)	1007·5	-2	NWN	2	c	61	75	8	8	2	-	7·8	10	2500
8	L'pool (Bidston)	1007·4	-2	NWN	3	c	58	85	9	5	2	-	4·6	9+	4000
9	Harrogate	1006·7	-14	SSW	3	TLR	52	95	5	6	-	-	10	10	2500
10	Spurn Head	1005·9	-2	SEE	2	c	64	85	7	1	3	9	2·3	7·8	4000
	Tynemouth	1006·0	-12	N	2	bc	57	95	6	2	6	-	4·6	4·6	2500
11	Inchkeith	1008·4	-4	S	1	o	54	95	6	5	-	-	10	10	800
	Leuchars	1008·4	-8	-	0	rr	57	95	6	6	2	-	9+	10	450
12	Renfrew	1008·9	-2	E'N	1	c	62	75	6	4	7	-	2·3	9+	1500
	Eskdalemuir	1006·3	-10	NE	4	c	61	75	7	2	7	2	4·6	9+	2500
13A	Tiree	1008·9	0	NNW	2	bc	59	95	8	1	6	-	2·3	2·3	4000
13B	Stornoway	1008·6	-2	N	2	c	61	85	7	4	1	-	4·6	9+	2500
15	Dalwhinnie	1009·4	-2	NE	1	rr	56	65	6	3	2	-	7·8	10	450
	Aberdeen	1008·4	-8	NE	2	r₀r₀	55	95	6	6	-	-	10	10	450
16	Lerwick	1009·8	-4	SE	2	rF	54	95	1	5	-	-	10	10	150
17	Blacksod Point	1011·6	+4	NNW	3	bc	59	65	9	2	-	-	4·6	4·6	2500
18	Malin Head	1008·4	-2	N	2	bc	57	95	7	2	6	-	2·3	2·3	2500
	Aldergrove	1007·5	-8	W'N	1	c/pr	59	75	8	9	-	3	7·8	9	1500
	Donaghadee	1007·6	-4	NNE	1	bc	58	85	8	7	3	-	2·3	4·6	4000
19	Birr Castle	1009·1	-6	NW	2	c	61	65	8	8	-	-	9	9	2500
20	Valentia Obsy.	1012·0	0	NWW	4	bc	59	75	9	8	-	-	4·6	4·6	2500
	Roches Point	1009·6	-2	N	3	bc	60	75	9	8	-	-	4·6	4·6	1500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% 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)	1007·7	-2	SSW	3	bc	70	55	9	1	-	-	2·3	2·3	4000	0	*
	Croydon	1007·9	-6	SW	3	b	63	55	8	1	-	-	1	1	4000	0	*
	S. Farnborough	1007·7	0	SW'S	3	b	63	55	9	2	-	-	1	1	4000	1	*
	Winchester	1007·6	-4	S	3	bc	61	75	8	1	-	-	2·3	2·3	4000	1	*
	Boscombe Down	1007·4	-6	SW	3	bc	61	75	8	2	-	-	4·6	4·6	2500	0	*
	Calshot, S'thmtn	1009·4	-2	SW'S	3	c	60	75	8	8	-	-	7·8	7·8	2500	0	1
	Dungeness	*	*	SW	2	bc	*	*	8	1	1	*	1	2·3	4000	*	0
	Lympne	1008·9	+2	SSW	4	b	61	65	9	2	3	1	Tr.	1	4000	0	*
2	Shoeburyness	1008·0	0	SW	3	bc	66	55	9	1	7	-	2·3	4·6	4000	0	*
	Felixstowe	1007·8	0	SW	4	bc	67	55	9	1	4	1	1	2·3	4000	0	2
	Gorleston	1006·9	0	SSW	2	bc	66	85	6	9	-	-	4·6	4·6	2500	0	2
	Cranwell	1006·8	-2	WSW	1	c	64	65	7	8	-	-	7·8	7·8	4000	0	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1007·0	-4	NNW	2	c	63	65	8	8	6	-	4·6	7·8	2500	1	*
	Upper Heyford	1007·2	-6	SSW	3	c/pr	62	65	8	3	3	-	4·6	7·8	1500		*
	Leafield	1007·0	-6	SW'S	1	c	60	75	9	8	-	-	9	9	4000	0	*
4	Ross-on-Wye	1006·9	-8	S	2	c	63	65	8	2	6	-	4·6	7·8	4000	1	
5	Portland Bill	1007·9	-6	SW'S	3	bc	58	85	8	2	-	-	4·6	4·6	2500	0	3
	Plymouth	1008·0	-2	W	4	bc	60	65	8	3	-	-	4·6	4·6	4000	1	1
	Falmouth	1009·9	+2	NW'W	4	c	56	75	8	3	3	-	2·3	7·8	4000	1	2
	Scilly (St. Mary's)	1010·1	-4	WNW	4	c	57	75	8	9	1	-	4·6	7·8	2500	1	2
	Guernsey	1009·8	-4	W	2	bc	61	75	8	1	3	-	4·6	4·6	1500	0	2
6	Pembroke	1008·0	-2	WNW	2	bc	58	85	8	3	8	1	2·3	4·6	2500	0	1
7	Holyhead	1008·2	-2	NW'W	2	bc	56	95	7	3	8	3	1	1	1500	0	1
	Chester (Sealand)	1007·3	-4	NW	2	bc	61	75	8	8	-	-	4·6	4·6	4000	1	*
8	L'pool (Bidston)	1007·1	-2	NW	3	bc	60	85	9	3	-	-	2·3	2·3	4000	0	*
9	Harrogate	1006·1	0	SSW	3	b	63	65	8	1	-	-	Tr.	Tr.	4000	1	*
10	Spurn Head	1006·5	0	NW	3	bc	65	75	7	-	1	1	0	4·6	-	0	1
	Tynemouth	1005·7	-2	NW	2	c/r	56	85	6	6	-	-	7·8	7·8	1500	1	2
11	Inchkeith	1007·0	-2	N	1	r₀r₀	54	95	6	6	-	-	10	10	800	1	1
	Leuchars	1007·1	+2	NE	2	c/d	55	95	7	5	2	8	4·6	10	450	1	*
12	Renfrew	1007·6	+4	NNE	1	c/pr	58	85	7	8	7	-	7·8	9	1500	1	*
	Eskdalemuir	1006·7	+4	W'N	3	c/pr	53	85	6	5	1	-	9+	10	2500	1	*
13A	Tiree	1008·5	-2	NW	4	c	56	85	7	5	7	9	2·3	7·8	2500	0	2
13B	Stornoway	1009·2	0	NNE	3	c	57	85	6	4	2	-	4·6	10	2500	0	1
15	Dalwhinnie	1008·3	-4	-	0	d₀d₀	53	95	6	3	2	-	9	10	450	1	
	Aberdeen	1006·9	-8	NNE	1	d₀d₀	56	95	6	6	-	-	10	10	450	1	1
16	Lerwick	1008·0	-8	NNE	3	rr	52	95	6	6	-	-	10	10	1500	1	2
17	Blacksod Point	1009·7	-18	N'E	1	r₀r₀	52	95	4	6	-	-	10	10	220	1	*
18	Malin Head	1012·4	+2	N	5	bc	58	65	8	8	-	-	4·6	4·6	3000	0	4
	Aldergrove	1009·0	+6	N'W	4	c	56	95	7	5	-	-	9+	9+	800	0	2
	Donaghadee	1008·0	-2	NNW	3	c	58	85	7	9	-	3	4·6	9	1500	1	*
19	Birr Castle	1007·4	-2	NNE	2	c	57	85	7	5	-	-	7·8	7·8	2500	0	1
20	Valentia Obsy.	1009·5	0	N	3	bc	60	55	8	1	-	2	2·3	4·6	2500	0	*
	Roches Point	1012·7	+2	NW'N	5	bc	58	65	9	1	-	-	2·3	2·3	2500	1	2
		1009·5	0	N	4	bc	61	65	9	5	3	1	2·3	4·6	2500	0	2

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 6th (37)	Weather. 13h.–18h. 6th (38)	Weather. 18h. 6th to 1h. 7th (39)	Weather. 1h.–7h. 7th (40)
London (Kew)	cm₀bcy	bcuy	bvyb	bbc
Croydon	crrpr₀y	bcby	bbcw	bcwm₀c
S. Farnborough	prbcp₀	bcubq	byb c w	bcw
Winchester	cprm₀bc	bcb	b	b-FF
Boscombe Down	omcpr	cbc	bcc	coffe
Calshot, S'thmtn	cprbc	bc	bcbw	bwbc
Dungeness	bc	b	*	o
Lympne	cpr₀bu	bu	bvbc	bcifc
Shoeburyness	cbc	bc	bcb	c
Felixstowe	cbc	bcuybuq	bvyb	b-c
Gorleston	cpr₀c	cbc	bcb	bbcc
Cranwell	c m₀c	bcyc	cPRb	bbcf
Cardington	*	*	c	cbccm₀
Birmingham	bc	bcpr₀	bcpr₀	bcc
Upper Heyford	cr₀rrbcpr	bcpr₀	bc	cffc
Leafield	cp₀tbc	bcp₀cu	cbcw	bcifc
Ross-on-Wye	fcbctlr	tbcc	cbcu	bcFF
Portland Bill	cbc	bc	bc	bcc
Plymouth	bbc	bbc	bclb	bbcw
Falmouth	bc	bcq	bccl	cPlbc
Scilly (St. Mary's)	cqp	cp	crrtl	crrcp
Guernsey	bc	bc	bcw	bcw
Pembroke	cp₀bcc	cp₀3₀bc	cbc	c
Holyhead	bcu	tlbcm₀	bwm₀	bwm₀c
Chester (Sealand)	bctlpr₀	tprbc	bc	cwm₀
L'pool (Bidston)	obc	cbbcu	bvb-c	cco
Harrogate	TLR	tlRob	b	bw
Spurn Head	bc	cbc	bcw	bc
Tynemouth	oifyr₀bc	bcoirif	bc	bc
Inchkeith	FFo	rrFo	dfo	irfo
Leuchars	for₀rr	orrdd₀c	coid₀ir₀	oid₀
Renfrew	cm	ctPR₀	c-r₀bc	bc irom
Eskdalemuir	c	ctcpR₀c	cpr c r₀r₀	or₀r₀0
Tiree	cbc·	bcc	c o	or₀
Stornoway	bcc	c	oir	orr
Dalwhinnie	rr	rr		bc
Aberdeen	forrm₀	orrm₀o	od₀c	c
Lerwick	Ffrr	om₀rr	orrF	Fmd₀
Blacksod Point	oFFm	or₀r₀m	or₀r₀FFe	oFF r₀r₀
Malin Head	bc	bc	preq	0
Aldergrove	cp₀bc	⊕bcc	cmce	cir₀m₀c
Donaghadee	pr₀t	TLRRt	cr₀	cr₀r₀odd
Birr Castle	offcbc	bcc	c	cpr₀c
Valentia Obsy.	bcc	cp₀bc	bcc r₀	coir
Roches Point	bcp₀cbc	bc	bc	bcc
	bcu	bcu	bbcvb	bbcc

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.
f₀, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

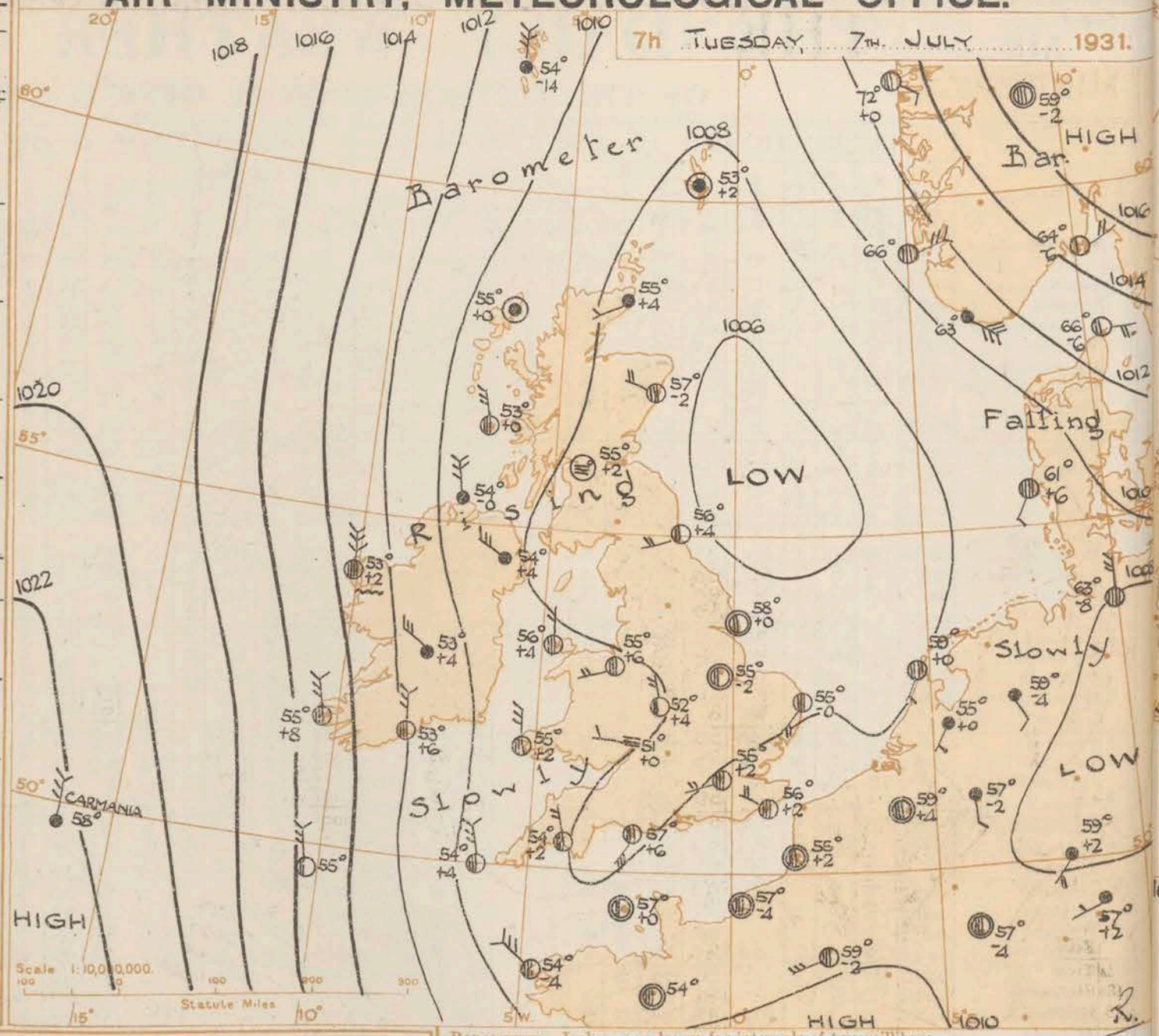
REPORTS from HEALTH RESORTS for 6th July 1931.

District	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min 9h. 5th to 9h. 6th	Temperature. Max. 9h.—17h. 6th	Rainfall. Night 17h. 5th to 9h. 6th	Rainfall. Day. 9h.—17h. 6th	Sunshine. Sunrise to 17h. 6th	Sunshine. Sunrise to Sunset. 5th
1	Tunbridge W.	ocbc	bcb	53	67	1	-	7.9	4.5
	Bournemouth	cb	b	53	65	1	-	9.0	6.2
	Ventnor ...	cbcpb	bbc	54	62	0.3	-	9.7	1.5
	Southsea ...	bcb	b	55	66	1	-	8.5	2.5
	Bognor Regis	bcprb	b	55	63	7	-	9.5	1.2
	Littlehampton	bc	bc	54	62	7	-	9.2	0.8
	Worthing ...	bcrb	b	54	64	11	T.	9.1	1.6
	Brighton ...	bc	bc	54	64	3	-	9.9	4.2
	Eastbourne†	b	bv	55	64	5	-	10.4	4.8
	Hastings† ...	cbcb	b	54	66	1	-	10.5	1.2
	Folkestone ...	rcbc	bcb	56	71	3	-	9.7	5.4
	Dover... ...	cbc	bcb	58	64	9	-	8.7	6.8
	Deal	ocb	b	57	69	11	-	8.7	6.6
	Ramsgate ...	bc	bcb	57	68	11	-	8.4	6.5
	Margate ...	bc	bc	59	71	9	-	7.7	7.8
2	Southend ...	bc	bcb	56	70	0.5	-	8.7	1.7
	Maldon ...	bccb	bcb	55	70	0.3	-	5.6	3.1
	Clacton-on-Sea	bc	bc	58	70	2	-	8.3	6.6
	Dovercourt ..								
	Lowestoft ...	bc	bc	59	69	10	-	5.2	9.6
	Skegness ...	b	b	58	70	-	-	10.1	4.2
	Mablethorpe								
	Cleethorpes ...	cbc	b	58	71	-	-	7.2	2.9
3	Leamington S.	oprc	cbcb	50	67	-	0.3	5.7	8.2
4	Cheltenham†	cwcp	cirtb	48	65	-	4	3.3	6.5
5	Bath	bcbpc	pcbc	54	66	-	1	3.5	9.5
	Weymouth ...	b	bv	56	64	-	-	11.0	9.7
	Jersey ...	pcpbc	bc	54	63	0.4	T.	11.7	4.0
	Torquay ...	bcpb	bbcpc	51	63	0.4	1	6.2	11.0
	Penzance ...	bc	cbcpr	50	63	2	0.3	4.2	11.0
	St. Ives ...	c	p	50	61	1	1	7.0	9.4
	Bude	prbc	prbcc	48	61	3	4	5.0	6.1
	Ilfracombe ...	bbc	bcc	52	61	-	-	5.6	4.0
6	Aberystwyth	cprbc	bc	56	61	2	-	9.8	6.4
7	Llandudno ...	c	cbc	51	62	-	-	4.4	8.0
	Colwyn Bay...	bcbrt	robcb	51	63	-	2	5.0	7.6
	Rhyl	bbcc	cprbc	48	63	-	0.5	8.2	6.7
8	Wallasey ...	bbcc	cbcb	51	63	T.	-	6.5	5.9
	Southport‖ ...	bcco	ocbcb	51	62	0.1	-	5.6	4.8
	Blackpool ...	bc	cbc	52	64	0.3	-	5.9	3.6
	Morecambe ...	cbc	cbbc	51	64	-	-	5.3	4.3
9	Ilkley... ...	bc	clrhb	49	69	T.	15	4.9	3.3
10	Berwick-on-T.	oPRo	procm	50	59	1	2	0.1	2.3
11	Dunbar ...	ofrr	ofrr	51	59	1	3	0.0	4.7
12	Douglas ...	bccbc	Fcbc	53	61	-	-	6.7	7.4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h TUESDAY, 7TH. JULY 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Wind southwest or west, light or moderate; variable sky; perhaps thunderstorms; moderate temperature.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind north or northwest, moderate; variable sky; showers; chance of local thunder; moderate temperature.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind variable or westerly, light or moderate; variable sky; showers or occasional rain; possibly local thunder; moderate temperature.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland.	Wind northerly, moderate, fresh locally; cloudy or dull, with some rain; fairer later; moderate temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind variable or northerly, light or moderate; cloudy or dull; rain at times; local mist or fog; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind northerly, backing later; moderate or fresh; cloudy; showers or occasional rain; brighter intervals; moderate temperature.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm = ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A shallow low pressure area covers the North Sea and Great Britain and there is a ridge of high pressure west of Ireland. Weather will be rather unsettled with occasional rain in the North, and perhaps local thunderstorms in the South.

FURTHER OUTLOOK.

Rather unsettled but fair periods.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

Morning of
Tuesday
July 7th
1931.

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

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force. ○ Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 7th July 1931.

No. 254.29.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1008.6	-2	S'W	2	bc	50	95	7	-	3	-	0	2-3	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1009.0	-6	S'W	3	bc	56	95	8	5	4	-	1	2-3	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1008.8	-6	SW	2	bc	50	95	8	-	3	-	0	4-6	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1007.3	-6	W'S	2	b	55	95	7	-	-	-	0	0	-
	Cranwell ...	240	1007.5	-4	W	1	b	51	95	5	-	-	1	0	Tr	-
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1007.2	-4	SW'W	3	bc	56	85	8	-	4	-	0	2-3	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1009.1	-4	N'W	2	cl	53	95	7	5	-	-	10	10	4000
	Scilly(St.Mary's)	163	1010.3	-8	NNW	5	rr	53	95	7	6	-	-	9+	9+	2500
	Guernsey ...	175	1009.6	-8	-	0	bc	53	95	9	1	-	-	2-3	2-3	2500
6	Pembroke ...	142	1008.2	0	NNW	2	c	54	95	8	8	8	-	4-6	7-8	2500
7	Holyhead ...	26	1008.4	-2	-	0	b	52	95	5	5	-	-	1	1	220
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1006.7	0	-	0	bc	57	95	6	5	-	-	2-3	2-3	1500
	Tynemouth ...	67	1006.5	0	SW	1	bc	51	85	6	2	-	-	2-3	2-3	2500
11	Inchkeith ...	190	1007.2	0	NE	1	dzl	53	95	2	5	-	-	10	10	<150
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1008.6	-6	N	3	c	53	95	7	3	2	-	9	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1007.0	-6	N	1	F	54	95	1	5	-	-	10	10	<150
16	Lerwick ...	54	1007.9	-4	-	0	F	55	95	1	5	-	-	10	10	<150
17	Blacksod Point	18	1013.5	0	N	6	pr	55	85	6	8	-	-	9	9	800
18	Malin Head ...	52	1009.5	0	N'W	5	ir	55	95	7	6	1	-	2-3	10	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1014.4	0	NNW	4	bc	55	85	8	4	-	-	4-6	4-6	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	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)
1008.4	0	SW'W	2	c	56	85	6	7	3	2	2-3	7-8	800	0	*
1008.6	+2	SW'W	2	c	55	85	7	7	7	8	2-3	7-8	1500	0	*
1007.9	-2	-	0	bc	54	95	6	2	4	1	1	4-6	4000	1	*
1008.3	0	-	0	F	51	95	1	5	-	-	10	10	<150	0	*
1008.4	+4	SE	1	pf-	53	95	3	5	-	-	10	10	<150	0	*
1008.8	0	S'W	3	bc	59	75	8	2	4	-	4-6	4-6	2500	0	1
*	*	WNW	1	c	*	*	7	7	7	*	2-3	7-8	4000	*	0
1008.8	+2	WSW	2	c	56	95	7	5	-	-	9	9	7200	0	*
1008.4	0	WSW	3	c	58	85	7	2	7	-	2-3	7-8	5700	0	*
1008.6	0	SW'W	1	c	57	85	7	5	7	-	7-8	9	4000	0	0
1007.3	0	SW	2	c	55	95	7	6	7	-	4-6	7-8	2500	0	1
1007.5	-2	-	0	bc	55	95	6	-	-	1	0	2-3	-	1	*
1007.6	+2	SW'W	1	c	55	85	6	-	3	1	0	9	-	*	*
1008.1	+4	NNW	2	bc	52	95	6	-	4	-	0	4-6	-	1	*
1008.1	+2	-	0	cf	51	95	2	5	-	-	7-8	7-8	5700	1	*
1007.4	0	-	0	c	55	95	6	5	3	-	2-3	7-8	<150	0	*
1008.2	0	W	1	cf-	51	95	2	5	-	-	9+	9+	220	1	*
1007.1	+6	SW	3	c	57	85	8	3	4	9	4-6	9	2500	0	3
1008.3	+2	NNW	2	c	54	95	8	8	1	3	4-6	7-8	4000	1	0
1009.6	+6	NW	4	PR	54	95	7	3	7	-	7-8	9	2500	1	2
1009.8	+4	NNW	4	c	54	85	8	8	6	2	4-6	7-8	4000	1	2
1008.6	0	-	0	bc	57	75	9	2	-	1	2-3	4-6	2500	0	1
1008.5	+2	N	3	c	55	95	8	8	8	1	4-6	7-8	1500	0	1
1008.8	+4	N	2	c	56	95	8	5	-	-	9+	9+	800	0	0
1008.7	+6	W'S	2	c	55	85	6	5	-	-	9	9	1500	0	0
1008.4	+2	W'S	2	c	54	85	7	5	2	-	4-6	10	2500	0	*
1007.5	0	SSW	2	b	55	85	7	-	-	1	0	Tr	-	1	*
1007.0	0	-	0	bc	58	95	6	5	-	1	2-3	4-6	1500	1	0
1006.8	+4	WSW	2	bc	56	85	6	5	-	1	2-3	4-6	2500	0	1
1007.0	0	ENE	1	f	54	95	3	5	-	-	10	10	<150	0	0
1007.5	+2	E	1	o/do	56	95	3	4	5	-	10	10	450	1	*
1007.8	+2	-	0	m	55	95	4	5	-	-	10	10	1500	1	*
1007.3	+2	SSE	1	0	53	95	6	5	-	-	10	10	220	1	*
1008.2	0	N	3	c	53	95	7	5	2	-	4-6	9	1500	1	1
1008.1	0	-	0	do	55	95	6	5	-	-	10	10	450	2	0
1008.1	+2	NE	1	c	54	85	8	4	-	-	10	10	800	1	*
1006.8	-2	WNW	2	c	57	85	7	5	3	-	7-8	9+	2500	1	1
1007.1	+4	SW	1	DD	55	95	5	5	-	-	10	10	<150	1	2
1007.8	+2	-	0	rf	53	95	1	5	-	-	10	10	<150	1	*
1014.1	+2	N	6	c	53	75	8	8	-	-	10	10	800	0	4
1008.8	0	N'W	5	dd	54	95	5	6	-	-	10	10	800	1	3
1008.8	+4	NW'W	3	do	54	95	5	5	-	-	10	10	450	1	*
1007.7	+2	WNW	1	c	56	95	7	5	-	-	8+	8+	1500	0	0
1011.2	+4	NW	3	ir	53	95	7	6	-	-	10	10	1500	1	*
1015.0	+8	NNW	4	c	55	75	8	5	-	-	9	9	1500	0	3
1011.5	+6	N	4	c	53	95	8	3	-	-	7-8	7-8	1500	0	3

PAST 24 HOURS.

Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine Hrs. (36)
70	50	42	0.4	-	9.7
67	50	47	1	Tr	10.5
67	47	36	1	-	9.6
66	46	41	Tr.	Tr	10.9
65	47	42	0.5	-	*
65	53	51	1	-	11.6
66	52	*	-	-	*
66	49	45	0.1	-	12.4
70	48	36	-	-	11.0
70	54	49	-	-	9.7
70	52	50	Tr.	-	5.4
68	48	44	-	1	6.8
*	*	*	*	*	*
66	49	43	Tr.	Tr	7.5
65	47	42	3	0.2	*
65	47	37	0.2	-	5.7
66	46	41	1	-	5.5
61	55	*	-	-	*
63	49	43	-	-	13.1
61	51	*	-	0.6	7.0
62	49	*	0.4	30	5.5
63	50	46	-	-	15.4
62	52	*	2	-	9.2
60	52	43	-	-	12.3
64	50	46	0.2	(Tr)	7.6
63	52	50	-	-	9.0
66	46	41	13	-	7.4
71	54	*	-	Tr	9.6
59	49	48	2	-	*
55	52	52	3	3	0.0
57	53	53	8	0.3	0.0
65	51	43	5	1	0.5
64	51	51	2	3	2.1
59	53	52	-	1	9.6
62	53	*	-	7	2.2
56	51	48	5	2	0.0
57	54	53	9	0.2	0.0
54	51	*	3	4	*
54	53	*	3	9	0.0
60	53	*	-	Tr	*
58	53	*	Tr	1	5.2
61	52	51	3	1	4.7
59	53	*	-	0.2	*
62	51	50	Tr	0.4	8.3
60	53	49	1	-	13.3
65	50	*	-	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW	18	cmsbcy	bcvy	bvybbc	70	50	42	0.4	-	9.7	*	*	8
CROYDON	217	crrpr.y	bcby	bbcwsc	67	50	47	1	Tr	10.5	49	63	8
GREENWICH (Royal Observatory) ...	149	cpy	bcby	bcw	74	49	38	Tr	Tr	10.6	74	49	7
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	9.7	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	67	53	48	-	-	9.6	55	68	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	7.3	*	*	*
CAMDEN SQUARE	110	c	cb	*	71	53	49	-	-	*	*	67	*
KENSINGTON	80	corbc	bcpbc	*	70	52	44	0.2	-	9.5	At 18h. 57	70	*
HAMPSTEAD OBSERVATORY	450	bcb	b	*	67	48	41	-	-	9.1	*	77	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
0.5	7th 9hr 6th	Nil	13 to 21h 6th

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.2	5hr 7th	<0.1	17-21h 6th

FOREIGN OBSERVATIONS.

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

7h. G.M.T. 7th July

Stations	Barom. mb. (18h.)	Wind. Direc. (18h.)	Wind. Force. (18h.)	Weather. (18h.)	Temp. °F. (18h.)	Barom. mb. (7h.)	Wind. Direc. (7h.)	Wind. Force. (7h.)	Weather. (7h.)	Temp. °F. (7h.)
PARIS	1009.5	SW	3	pr	66	1009.7	W'S	4	cip	59
BRUSSELS	1008.7	NW	1	bc	68	1008.2	-	0	c	59
BERLIN	1005.0	ESE	2	c	63	1006.7	SE	3	bc	81
ZÜRICH	1011.2	NE	1	c	68	1012.0	SE	1	ir	58
ROME	1011.7	SSW	3	bc	84	1010.1	WNW	2	bc	75

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
73	55	Tr	8
72	54	2	-
86	66	-	1
77	58	7	2
95	63	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	„
2	Fog	550	„
3	Moderate fog	1,100	„
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	„
6	Moderate „	6½	„
7	Good „	12½	„
8	Very good „	31	„
9	Excellent „	beyond 31	m.

COLUMN 30.—Code for State of Sea.

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

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

WEDNESDAY 8th JULY 1931.

No. 25430

DISTRICT.	STATIONS. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 7th JULY: Barom. at M.S.L. mb. (1)	Change in 3 hours. (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)	1006.5	-6	SW	2	bc	68	45	8	8	7	-	4-6	4-6	4000
	Croydon	1006.8	-8	W'S	2	bc	69	45	8	2	3	-	4-6	4-6	4000
	S. Farnborough	1006.3	-8	S	1	c	67	55	8	2	-	-	7-8	7-8	4000
	Winchester	1006.7	-6	SW	3	bc	66	65	8	2	-	-	4-6	4-6	4000
	Boscombe Down	1006.8	-10	S	3	t	65	75	8	2	-	-	7-8	7-8	4000
	Calshot, S'thmtn	1008.1	-2	SSW	4	bc	65	65	8	8	-	-	4-6	4-6	4000
	Dungeness	*	*	SW	3	bc	*	*	7	1-8	7	*	2-3	4-6	4000
	Lympne	1007.0	-6	SW	3	bc	66	55	8	8	5	-	2-3	4-6	4000
2	Shoeburyness	1005.7	-14	SSW	2	c	70	45	7	8	7	-	2-3	7-8	4000
	Felixstowe	1007.4	-2	S	3	bc	65	55	9	8	7	1	Tn	4-6	4000
	Gorleston	1006.8	0	SSE	3	bc	62	85	7	9	7	-	2-3	4-6	2500
	Cranwell	1005.8	-12	NW	2	c	69	55	7	2	3	6	4-6	9	4000
3	Cardington	1006.6	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1007.1	-4	NNE	2	tlr	60	75	6	6	3	-	7-8	9	2500
	Upper Heyford	1008.4	-12	NE	2	bc	68	55		2	4	-	4-6	4-6	4000
	Leafield	1006.5	-6	NE	1	c	62	65	9	3	-	-	7-8	7-8	5700
4	Ross-on-Wye	1006.7	-8	NW	2	t	62	75	7	3	-	3	7-8	9	4000
5	Portland Bill	1007.2	0	SW'S	3	bc	59	85	8	2	4	-	2-3	4-6	2500
	Plymouth	1007.7	-2	NNW	4	cjp bc	60	65	8	9	7	-	7-8	9	2500
	Falmouth	1009.4	+2	NNW	4		61	75	8	2	6	8	2-3	4-6	4000
	Scilly (St. Mary's)	1010.8	+4	NW	4	PR	58	95	7	9	6	-	4-6	7-8	2500
	Guernsey	1008.6	0	W	2	bc	62	65	9	1	4	-	2-3	2-3	2500
6	Pembroke	1008.6	-2	WNW	2	bc	60	85	8	2	5	-	2-3	4-6	2500
7	Holyhead	1008.7	-2	NW	3	c	59	95	7	5	-	3	7-8	7-8	800
	Chester (Sealand)	1007.6	-6	NW	4	bc	64	65	8	2	3	1	1	4-6	4000
8	L'pool (Bidston)	1007.6	0	NW	3	bc	59	75	8	-	-	6	0	2-3	-
9	Harrogate	1006.1	-6	S	1	bc	69	45	9	2	-	1	1	2-3	4000
10	Spurn Head	1006.6	-2	E	2	bc	62	85	6	5	3	1	2-3	4-6	4000
	Tynemouth	1006.2	+4	SE	2	bc	61	75	7	2	-	-	4-6	4-6	2500
11	Inchkeith	1006.3	-6	NE	1	bc	59	95	8	1	4	-	4-6	4-6	2500
	Leuchars	1007.1	-2	E	2	c	62	85	8	8	2	-	7-8	9+	1500
12	Renfrew	1007.0	-4	S	1	c	61	85	6	8	-	-	7-8	7-8	2500
	Eskdalemuir	1006.5	-2	-	0	c	62	75	7	2	-	-	7-8	7-8	2500
13A	Tiree	1007.1	-4	N	2	c	57	95	9	5	6	-	2-3	7-8	2500
13B	Stornoway	1007.2	-2	NNW	1	c	55	95	7	4	-	-	10	10	1500
15	Dalwhinnie	1006.4	-4	NNE	1	tr.	62	65	8	4	3	-	4-6	9+	2500
	Aberdeen	1006.9	+4	SE	1	o/d	57	95	5	5	-	-	10	10	800
	Wick	1006.0	-2	SW	2	c	59	95	7	8	2	-	9+	10	1500
16	Lerwick	1006.6	-6	SE	2	o	57	85	6	5	-	-	10	10	800
17	Blacksod Point	1013.8	-6	NW	6	c	55	75	8	8	-	-	10	10	2500
18	Malin Head	1008.1	-6	NW'N	3	c	56	95	7	5	-	-	9+	9+	800
	Aldergrove	1008.3	-2	NW	2	id.	56	95	6	5	-	-	10	10	800
	Donaghadee	1007.7	-2	E'N	2	c	59	85	8	8	3	2	4-6	7-8	2500
19	Birr Castle	1011.1	-2	NW	3	tr.	54	95	7	6	-	-	10	10	1500
20	Valentia Obsy.	1015.2	+2	NW'N	4	cjp c	55	75	7	5	-	-	10	10	1500
	Roches Point	1011.7	+4	N	5		59	75	9	3	-	-	7-8	7-8	1500

DISTRICT.	STATIONS.	OBSERVATIONS at 18h. G.M.T. 7th JULY: Barom. at M.S.L. mb. (15)	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)	1006.0	+2	WSW	3	bc	67	55	8	2	-	8	1	4-6	4000	0	*
	Croydon	1006.3	-2	SW'S	3	c	65	65	8	8	2	3	2-3	7-8	4000	0	*
	S. Farnborough	1006.2	0	W	3	bc	64	65	8	3	-	3	4-6	4-6	2500	1	*
	Winchester	1006.8	+4	NW'W	4	bc	62	65	8	3	3	-	2-3	2-3	4000	0	*
	Boscombe Down	1007.0	-2	NW	3	bc	59	75	7	4	1	-	2-3	2-3	4000	1	*
	Calshot, S'thmtn	1007.6	-6	W'N	3	bc	65	55	8	8	-	3	2-3	4-6	4000	0	*
	Dungeness	*	*	SW	4	bc	*	*	7	1	7	*	2-3	4-6	4000	*	2
	Lympne	1006.7	0	SW'S	4	bc	62	65	8	7	-	6	2-3	4-6	4000	0	*
2	Shoeburyness	1006.4	+2	SW	2	c	63	65	8	5	-	-	7-8	7-8	7200	0	*
	Felixstowe	1006.4	-2	S'W	3	c	64	65	9	8	-	6	1	7-8	4000	0	0
	Gorleston	1006.1	-4	S'E	3	bc	63	75	7	-	-	3	0	4-6	-	0	3
	Cranwell	1006.5	+4	W	3	c/TLR	57	95	6	8	-	8	7-8	9	2500	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1006.8	+2	SW	1	TLH	58	75	5	6	2	-	7+0	10	1500	1	*
	Upper Heyford	1006.5	+10	~~NW~~	4	TLR	56	85		9	7	-	7-8	7-8	1500	1	*
	Leafield	1006.8	0	NW	3	t	54	85	7	8	-	3	4-6	7-8	5700	0	*
4	Ross-on-Wye	1008.1	+12	SW	2	t	54	95	7	3	-	-	9	10	2500	1	*
5	Portland Bill	1007.4	0	W	5	bc	59	75	8	2	4	2	2-3	4-6	2500	0	3
	Plymouth	1009.2	+6	-	0	c	57	85	8	7	-	3	7-8	9	2500	2	0
	Falmouth	1010.4	+4	NW'N	4	bc	59	85	8	3	-	3	4-6	4-6	4000	0	2
	Scilly (St. Mary's)	1011.6	+6	NW	5	cjp	58	85	8	8	6	-	4-6	7-8	2500	1	3
	Guernsey	1009.0	0	W	3	bc	60	75	8	5	-	-	4-6	4-6	2500	0	2
6	Pembroke	1008.7	0	NW	3	c	57	85	8	8	6	-	4-6	7-8	2500	0	2
7	Holyhead	1008.4	-2	W'N	4	c	58	85	8	5	8	-	4-6	7-8	2500	0	!
	Chester (Sealand)	1007.5	+2	NW'N	4	c	61	75	8	2	3	4	4-6	7-8	4000	0	*
8	L'pool (Bidston)	1007.2	-2	WNW	4	bc	59	85	8	1	-	6	1	4-6	5700	0	*
9	Harrogate	1006.0	0	S	2	bc	59	75	5	3	-	3	4-6	4-6	2500	1	*
10	Spurn Head	1006.6	0	ES	2	bc	61	95	6	1	3	1	2-3	4-6	4000	0	1
	Tynemouth	1006.1	-8	SE	2	bc	59	85	6	2	-	-	4-6	4-6	2500	0	1
11	Inchkeith	1005.9	-6	NE	1	f bc	59	95	2	-	-	-	10	10	150	0	0
	Leuchars	1006.8	+2	E	2		59	95	6	2	8	1	2-3	4-6	1500	0	*
12	Renfrew	1006.5	0	E	1	tlr	58	95	7	3	-	-	9+	9+	2500	2	*
	Eskdalemuir	1005.7	+2	SW	4	bc	63	75	8	2	6	-	4-6	4-6	2500	1	*
13A	Tiree	1006.9	-2	NW	1	f	55	95	3	5	-	-	10	10	150	0	1
13B	Stornoway	1006.1	-8	NW	1	f o	55	95	87	5	-	-	10	10	2500	1	0
15	Dalwhinnie	1006.6	-2	SW	1	c	60	85	8	4	3	-	7-8	10	2500	1	*
	Aberdeen	1006.6	+2	ESE	1	o	58	95	5	5	-	-	10	10	450	1	1
	Wick	1005.8	-2	SE	1	o f	56	95	1	-	-	-	10	10	150	0	1
16	Lerwick	1006.6	+2	SE	2	f	55	95	3	5	-	-	10	10	150	1	*
17	Blacksod Point	1012.2	-6	WNW	4	cjp	55	75	7	8	-	-	10	10	150	0	4
18	Malin Head	1007.4	-6	NW'N	2	c	56	95	7	5	2	-	9	10	1500	0	2
	Aldergrove	1008.0	0	W'N	2	o	57	85	8	5	-	-	10	10	1500	1	*
	Donaghadee	1007.4	0	-	0	c	57	85	8	5	-	-	7-8	7-8	1500	0	0
19	Birr Castle	1011.0	-2	NW	3	tr.	54	85	7	6	-	-	10	10	1500	1	*
20	Valentia Obsy.	1014.6	-4	NW'W	4	c	56	75	8	5	-	-	9	9	1500	1	3
	Roches Point	1012.1	0	N	5	c	57	85	9	3	-	-	7-8	7-8	1500	0	3

DISTRICT.	STATIONS.	PAST 24 HOURS. WEATHER. 7h.–13h. (37)	13h.–18h. (38)	18h.–1h. (39)	1h.–7h. (40)
1	London (Kew)	bcy	bcy	beyc	cbc
	Croydon	bcy	bcy	bepremo	cbcw
	S. Farnborough	bcv	bc	bccb	b, cbcw
	Winchester	fmbc	bc	bbc	cmo
	Boscombe Down	ofebc	tlrbc	bc	cmfgw
	Calshot, S'thmtn	bcy	bcy	bw	bcwmo
	Dungeness	bc	bc	o	bc
	Lympne	cpr.bc	tbcuy	bcc	cprmo
2	Shoeburyness	cbcy	bc	bcer	circ
	Felixstowe	bc	bcy	bcvet	cpr ir
	Gorleston	cpr.bcq	bcq	bcoir	oir.
	Cranwell	bcmoc	tlR	cmof	cfmo
3	Cardington	*	*	*	c cmo
	Birmingham	bc	ctr.	R o	oc
	Upper Heyford	bcy	cTLR	cTLR	cmo
	Leafield	bccwt	bctlc	cbcw	cpo
4	Ross-on-Wye	fbccup	bctglrct	cubcgf	bcc
5	Portland Bill	cpr.bc	bc	bc	bcc
	Plymouth	bccPR	ctlRr	bccRR	crmo
	Falmouth	cPRbc	bcq	bcp.	cpbc
	Scilly (St. Mary's)	cpiR	cP	cp	cp
	Guernsey	bc	bcbc	bc	cprbc
6	Pembroke	cm.bc	bcc	cpr	cirs
7	Holyhead	c	cbc	c	c
	Chester (Sealand)	m.bc	bcc	bcc	c
8	L'pool (Bidston)	cbc	bc	bcco	o
9	Harrogate	b	bbcgt	tl bc	bcc
10	Spurn Head	bc	bc	bcc	bc
	Tynemouth	bc	bc	bco	oifid.
11	Inchkeith	ofc	bc	dF	Frr
	Leuchars	cm.cpr	cbc	offid.	offrd.
12	Renfrew	cmm.	cm.bc	tlRirc	c
	Eskdalemuir	cprc	cbc	bctbcF	cpr
13A	Tiree	c	bccfo	foc	coff
13B	Stornoway	oid.c	o	o	o
15	Dalwhinnie	bc	bc	*	cr
	Aberdeen	cir.o	od.m.d	om.	orr
	Wick	m.d.c	cFf	cFF	FFrr
16	Lerwick	offr.m.	om.fe	oFFe	oFF ffe
17	Blacksod Point	o	prc	preq	id
18	Malin Head	cidm.	ce	cir.odmdm	odmdm
	Aldergrove	d.d.id.	oid.c	c	cid.
	Donaghadee	id.bc	bcc	bcc	c
19	Birr Castle	oir.	oir.	c	corrc
20	Valentia Obsy.	cpr.	cp.c	cpre	c
	Roches Point	co	co	cvp.	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, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ☾, lunar halo.
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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

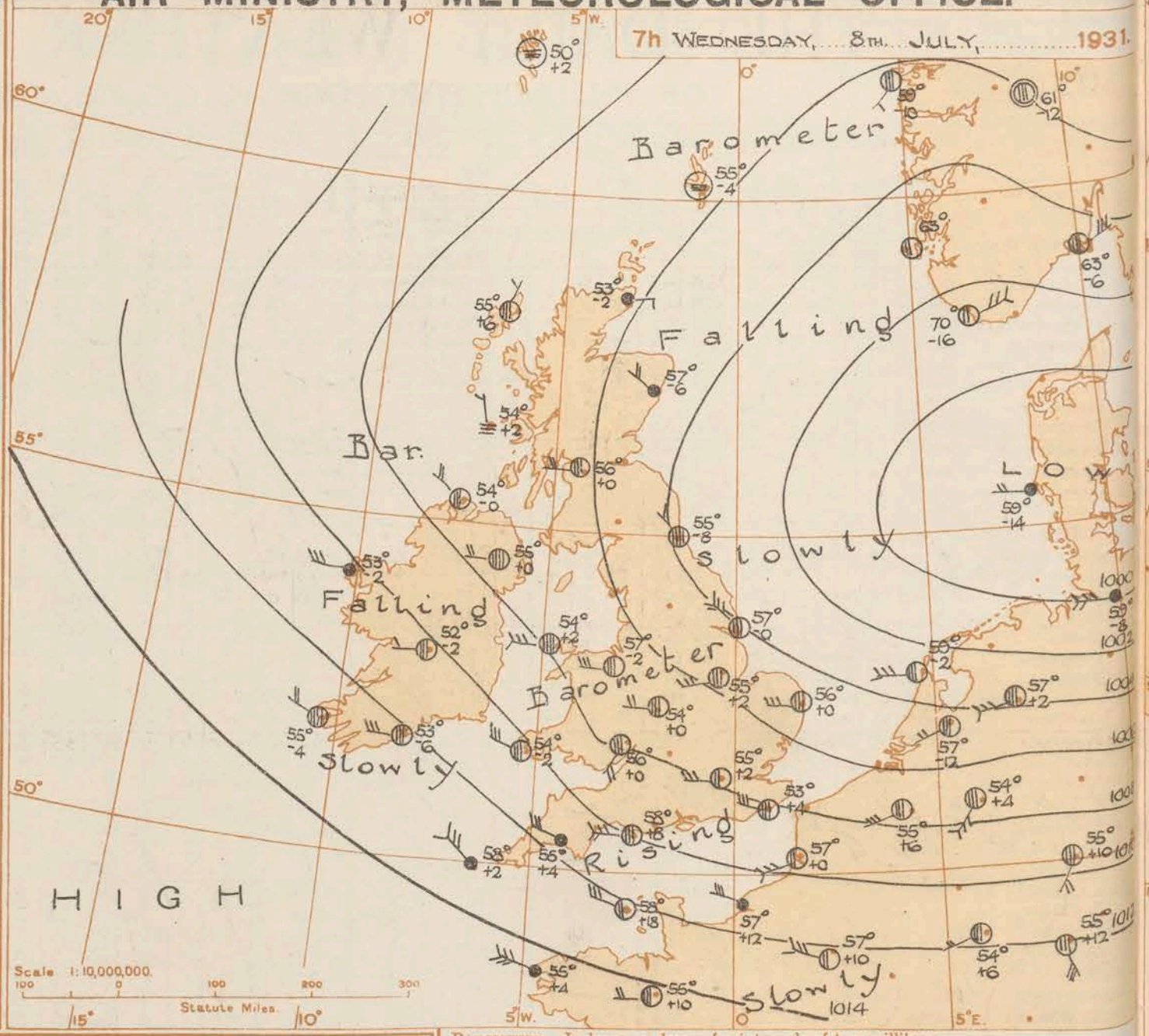
REPORTS from HEALTH RESORTS for 7th July 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 6h. 9h. to 9h. 7h.	Temperature. Max. 9h.—17h. 7h.	Rainfall. Night. 17h. 6h. to 9h. 7h.	Rainfall. Day. 9h.—17h. 7h.	Sunshine. Sunrise to 17h. 7h.	Sunshine. Sunrise to Sunset. 6h.
1	Tunbridge W.	b	bcb	47	67	-	-	9·2	10·6
	Bournemouth	bcc	b	49	67	-	-	6·7	12·0
	Ventnor ...	b	b	53	62	-	-	11·9	11·6
	Southsea ...	b	b	53	67	-	-	11·8	10·8
	Bognor Regis	bcb	b	54	62	-	-	10·7	11·8
	Littlehampton	bc	bc	53	62	-	-	11·1	12·0
	Worthing ...	b	b	55	63	-	-	10·4	10·2
	Brighton ...	bc	bc	56	63	-	-	10·2	12·0
	Eastbourne†	b	bv	54	64	-	-	10·7	12·8
	Hastings† ...	bcb	bcb	53	64	-	-	9·4	12·9
	Folkestone ...	bc	bc	53	69	-	-	8·6	12·2
	Dover... ...	bc	bc	54	63	-	-	8·7	11·1
	Deal	cbcb	bbc	51	69	-	-	7·5	11·5
	Ramsgate ...	bc	bcpb	53	67	-	Trace	6·7	10·9
	Margate ...	bcv	cbcv	52	67	-	-	5·6	10·4
2	Southend ...	bcb	bcc	53	71	-	-	7·5	11·3
	Maldon ...	bcb	bcc	45	74	-	-	5·5	8·0
	Clacton-on-Sea	bc	bc	54	67	-	-	6·8	10·7
	Dovercourt ...								
	Lowestoft ...	bc	bc	50	63	1	-	7·0	6·2
	Skegness ...	b	b	50	65	-	-	8·7	11·6
	Mablethorpe	bc	bc	48	69	Trace	-	9·9	10·2
	Cleethorpes ...	b	b	51	65	-	-	12·0	9·3
3	Leamington S.	c	bcbc	47	69	-	-	5·4	7·7
4	Cheltenham†	c3wc	citlr	48	67	-	4	3·0	4·2
5	Bath	bcc	ctlr	45	66	-	2	4·1	6·0
	Weymouth ...	bc	btpb	50	66	-	2	8·2	12·9
	Jersey ...	bc	bc	54	63	-	-	9·9	14·3
	Torquay ...	bccRtl	PRbcjp	51	62	-	8	2·3	7·2
	Penzance ...	bcrb	bpr	50	63	19	0·5	6·3	4·2
	St. Ives ...	bcpbc	c	51	60	14	0·3	5·3	7·1
	Bude	cbc	bc	48	62	-	-	7·3	5·0
	Ilfracombe ...	cbc	bcP	?55	63	-	6	2·3	5·8
6	Aberystwyth	bcbc	bcbc	50	61	-	-	6·3	12·4
7	Llandudno ...	bbc	bc	48	64	-	-	10·1	7·0
	Colwyn Bay...	bcb	bcc	47	63	-	-	8·8	7·0
	Rhyl	bcb	b	48	62	-	-	9·7	10·8
8	Wallasey ...	b	b	537	63	-	-	9·5	5·3
	Southport‖ ...	bcb	b	53	63	-	-	9·4	7·8
	Blackpool ...	cbc	bcc	53	64	-	-	9·8	8·0
	Morecambe ...	bbc	bcb	53	64	-	-	9·5	8·2
9	Ilkley... ...	b	b	47	71	-	-	9·3	6·8
10	Berwick-on-T.	c	o	53	59	-	-	1·6	0·1
11	Dunbar ...	cfdr	bcof	52	62	4	Trace	3·8	0·0
12	Douglas ...	cbbc	cbbc	49	63	-	-	8·8	7·6

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h WEDNESDAY, 8TH JULY, 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 8th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind westerly, moderate or fresh; bright periods; occasional local showers; moderate temperature.
8. N.W. England 9. N. Midlands 10. N.E. England	Wind northwest or west, moderate, fresh locally; variable sky; showers or occasional rain; moderate or rather low temperature.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind north or northwest, light or moderate; cloudy; some rain or showers; moderate or rather low temperature; local coastal fog.
13. A. W. Scotld. B. N.W. Scotland.	Wind variable or northerly, light or moderate; mainly cloudy; moderate or rather low temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind mainly between north and east, light or moderate; mainly cloudy or dull; rain at times; local coastal fog; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind westerly, moderate or fresh; mainly cloudy; perhaps occasional local rain; moderate or rather low temperature.

H.M. Stationery Office Press, Kingsway, W.C.2

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. - ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A depression over the Baltic extends to Scotland, while an anticyclone centred near the Azores extends towards Iceland. Bright periods and local showers may be expected in the South and cloudy weather with rain at times in Scotland.

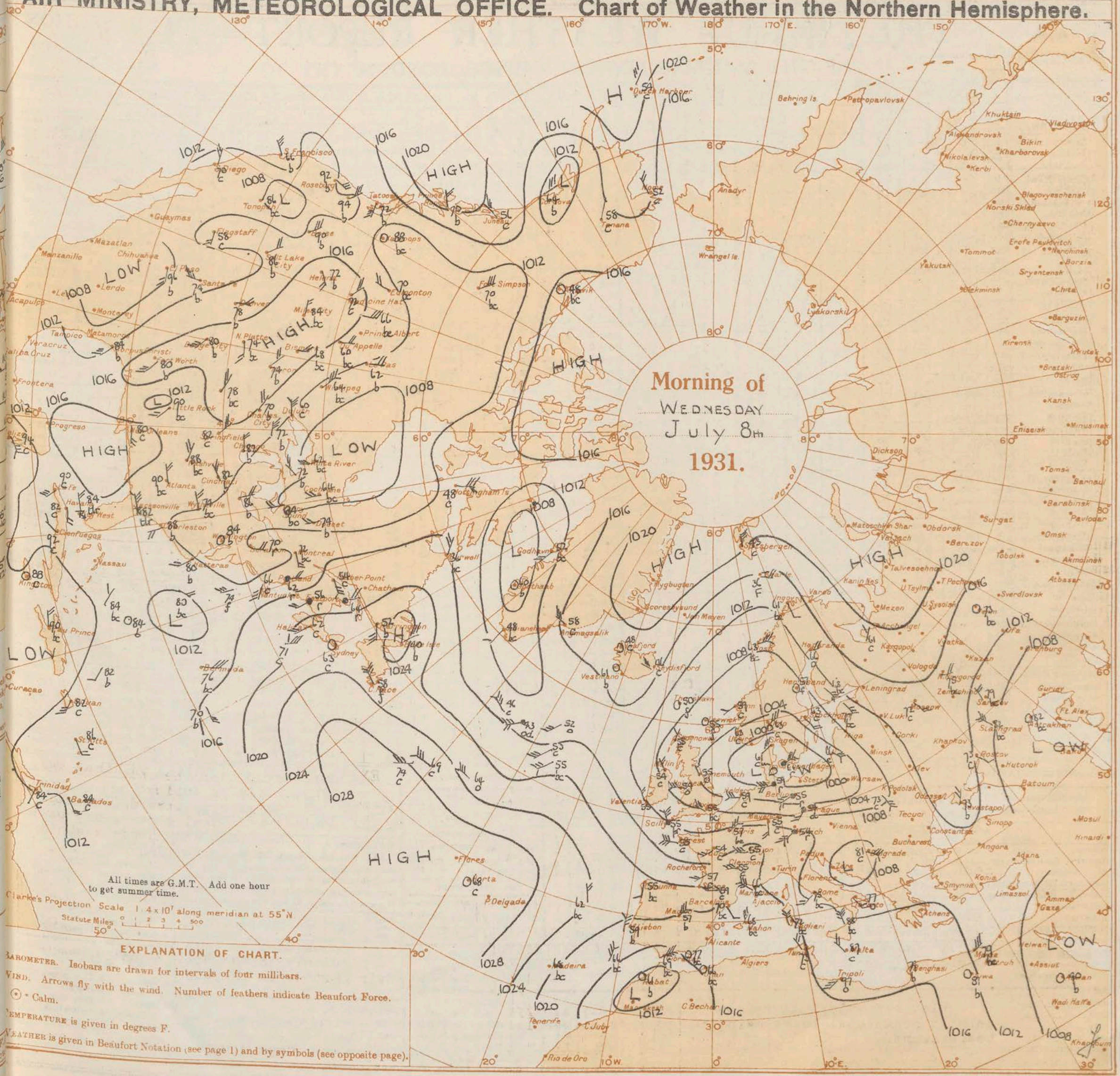
FURTHER OUTLOOK.

Somewhat unsettled but more particularly in the North; considerable fair periods in the South.

Forecasts issued at 0920 G.M.T.

C. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

WEDNESDAY 8th JULY 1931.

No. 25430

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0-10 (12)	Cloud. Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1007·1	+2	W'S	2	c	53	95	6	-	2	-	0	9	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1008·4	+2	W	2	bc	52	95	8	..	4	1	0	2·3	-
	Dungeness	20	*	*	*	*	*	*	*	*	.	*	*	*	*	*
	Lympne	346	1006·7	-6	WSW	2	c	53	95	5	5	2	-	4·6	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1004·5	-6	-	0	c.c.	58	95	6	6	-	-	10	10	1500
	Cranwell	240	1005·7	-4	W	2	f	53	95	5	5	-	-	10	10	4000
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1008·5	+4	WNW	4	bc	57	85	8	4	4	-	2·3	4·6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1012·1	+2	NW'W	4	c	56	95	8	3	7	-	4·6	7·8	4000
	Scilly (St. Mary's)	163	1012·4	0	NNW	5	pr	55	85	7	6	-	-	7·8	7·8	4000
	Guernsey	175	1010·1	+2	W	-	bc	57	95	8	8	-	-	4·6	4·6	2500
6	Pembroke	142	1009·4	+4	NW	3	c	54	85	8	8	6	-	7·8	9+	1500
7	Holyhead	26	1008·1	+4	W'N	4	c	55	95	8	5	-	-	10	10	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1003·6	-20	NW	4	c	59	95	6	4	1	-	4·6	7·8	4000
	Tynemouth	67	1004·8	-6	NW	2	f	53	95	3	6	-	-	10	10	1500
11	Inchkeith	190	1006·0	-4	ENE	1	dF	52	95	1	-	-	-	10	10	<150
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1006·3	-2	-	0	0	54	95	7	5	..	-	10	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1006·6	+2	E	1	F	52	95	1	.	.	-	10	10	<150
16	Lerwick	54	1007·4	-4	-	0	F	53	95	1	.	.	.	10	10	<150
17	Blacksod Point	18	1010·3	-8	W	5	c	53	85	6	8	-	-	10	10	<150
18	Malin Head	52	1007·1	-6	N'W	2	dd	55	95	4	6	-	-	10	10	800
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1013·8	-10	NW'W	4	0	54	75	8	5	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount. Low. 0-10 (26)	Cloud. Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1008.2	+2	W	2	bc	57	85	6	-	5	8	0	4·6	-	0	*
	Croydon	1007.9	+2	W	3	bc	55	85	6	1	3	9	1	4·6	2500	1	*
	S. Farnborough	1008.0	0	WNW	2	bc	57	85	7	5	9	-	1	2·3	2500	1	*
	Winchester	1008.6	+2	WNW	3	c	53	95	6	5	-	-	9+	9+	220	0	*
	Boscombe Down	1008.6	0	W'N	3	c	54	95	6	5	3	8	2·3	9	450	1	*
	Calshot, (S'thmtn)	1008.9	+6	WSW	2	bc	55	85	6	5	3	1	1	4·6	800	0	1
	Dungeness	*	*	W	2	c	*	*	7	4	7	*	4·6	7·8	2500	*	1
	Lympne	1007.6	+4	W'N	3	c	53	95	5	5	-	-	9	9	5700	0	*
2	Shoeburyness	1006.8	0	WSW	2	c	55	85	6	5	-	-	9+	9+	5700	1	*
	Felixstowe	1006·3	+2	W	3	ir	56	95	5	6	1	-	4·6	10	1500	1	1
	Gorleston	1004.5	0	W	3	c/r.	56	95	6	8	-	-	9+	9+	1500	1	2
	Cranwell	1005.9	+2	WSW	3	c	55	95	6	5	1	-	7·8	10	4000	1	*
3	Cardington	1006.8	+4	SW'W	3	c	55	95	6	5	7	-	7·8	10	4000	*	*
	Birmingham	1007.6	0	W	2	c	54	85	6	-	7	-	0	7·8	-	1	*
	Upper Heyford	1008·3	+4	SSW	2	c	54	95	7	5	2	-	9	10	2500	1	*
	Leafield	1007.9	+6	W'S	2	c	54	95	7	5	7	-	2·3	9+	4000	10	*
4	Ross-on-Wye	1008.0	0	SW	2	c	56	95	8	8	-	-	9+	9+	4000	1	*
5	Portland Bill	1009.4	+8	W	5	c	58	85	8	8	4	9	4·6	7·8	2500	0	3
	Plymouth	1010.8	+4	WNW	3	ir.	55	95	8	9	9	3	7·8	9+	1500	2	1
	Falmouth	1012·3	+2	W'N	3	bc	55	85	8	8	6	-	4·6	4·6	4000	1	2
	Scilly (St. Mary's)	1012·8	+2	NW	4	pr	55	85	8	8	3	-	7·8	9+	2500	1	3
	Guernsey	1011.7	+18	WNW	3	bc	58	85	8	8	3	-	4·6	4·6	1500	1	3
6	Pembroke	1008.8	-2	WNW	3	c	54	85	7	8	-	-	9+	9+	1500	0	2
7	Holyhead	1008.0	+2	W	4	c	54	95	8	5	-	-	10	10	800	0	1
	Chester (Sealand)	1006.8	-2	W	3	c	57	85	8	5	-	-	9+	9+	1500	0	*
8	L'pool (Bidston)	1006.4	-4	W'N	4	o	55	95	8	5	-	-	10	10	2500	0	*
9	Harrogate	1005.0	-6	SSW	3	c	55	85	7	6	1	-	2·3	9+	2500	1	*
10	Spurn Head	1003.5	0	NW	5	c	57	95	6	2	3	-	4·6	7·8	4000	0	3
	Tynemouth	1003.9	-8	NW	1	o	55	95	5	5	-	-	10	10	800	1	1
11	Inchkeith	1005.7	0	W	1	rrf	53	95	2	5	-	-	10	10	<150	1	0
	Leuchars	1005.7	0	-	0	id.	56	95	7	5	2	-	7·8	10	450	1	*
12	Renfrew	1006.4	0	W	2	c	56	95	7	5	-	8	9+	9+	800	1	*
	Eskdalemuir	1004.9	-2	ENE	1	c	53	95	6	5	1	-	7·8	10	1500	1	*
13A	Tiree	1006·3	+2	NNW	1	f	54	95	3	5	-	-	10	10	<150	1	1
13B	Stornoway	1006.4	+6	NNE	1	c	55	95	8	5	-	-	9+	9+	1500	1	0
15	Dalwhinnie	1006·1	+2	N	1	r	54	95	7	3	-	-	10	10	450	1	*
	Aberdeen	1005.0	-6	NW	2	ir	57	95	6	6	-	-	10	10	800	1	1
	Wick	1006·2	-2	E	1	rF	53	95	1	5	-	-	10	10	<150	1	1
16	Lerwick	1006·6	-4	-	0	f	55	95	2	5	-	-	10	10	<150	1	*
17	Blacksod Point	1010.0	-2	W	3	dd	53	95	6	6	-	-	10	10	<150	1	2
18	Malin Head	1006.4	0	NW	2	c/d	54	95	6	5	-	-	9+	9+	800	1	1
	Aldergrove	1007·2	0	.W	2	c/d.	55	95	6	5	-	-	10	10	450	1	*
	Donaghadee	1006·5	-2	N'E	1	c	55	85	7	7	2	-	4·6	7·8	1500	1	0
19	Birr Castle	1009.6	-2	W	1	c	52	95	7	6	7	-	7·8	9+	1500	1	*
20	Valentia Obsy.†	1012·2	-4	NW'W	2	c	55	75	8	5	-	-	10	10	1500	0	2
	Roches Point	1011.4	-6	W	3	c	53	85	8	3	-	-	7·8	7·8	1500	0	2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 7h. Hrs. (36)
1	London (Kew)	72	53	50	-	-	8.8
	Croydon	70	51	51	-	1	8.3
	S. Farnborough	68	47	38	-	-	10.4
	Winchester	87	46	42	-	-	11.7
	Boscombe Down	67	46	39	7	-	*
	Calshot, (S'thmtn)	66	49	45	-	-	14.5
	Dungeness	65	53	*	-	-	*
	Lympne	66	52	51	Tr.	Tr.	10.5
2	Shoeburyness	70	53	50	-	2	8.0
	Felixstowe	67	55	54	-	0·3	9.6
	Gorleston	65	55	54	0.4	1	8.7
	Cranwell	70	51	50	.4	-	5.9
3	Cardington	*	*	*	*	*	*
	Birmingham	67	51	49	0.5	5	4.0
	Upper Heyford	70	49	47	0.3	2	*
	Leafield	67	48	44	-	Tr.	4.6
4	Ross-on-Wye	66	50	46	3	-	2.7
5	Portland Bill	61	56	*	Tr.	-	*
	Plymouth	63	53	52	7	10	7.0
	Falmouth	62	54	*	4	1	10.5
	Scilly (St. Mary's)	60	53	*	10	2	4.7
	Guernsey	63	55	53	-	0.4	12.1
6	Pembroke	62	52	*	-	0.4	9.5
7	Holyhead	61	54	53	-	-	4.2
	Chester (Sealand)	65	54	50	-	-	11.5
8	L'pool (Bidston)	61	55	53	-	-	11.6
9	Harrogate	70	53	49	-	-	10.3
10	Spurn Head	64	56	*	-	-	13.8
	Tynemouth	64	53	52	-	0.1	*
11	Inchkeith	63	51	51	-	8	7.7
	Leuchars	64	54	54	Tr.	1	4.3
12	Renfrew	69	49	43	3	5	3.5
	Eskdalemuir	66	49	49	0.1	0.4	4.2
13A	Tiree	59	53	51	-	-	2.5
13B	Stornoway	57	53	*	0.1	0.6	0.0
15	Dalwhinnie	63	53	40	-	0.2	0.2
	Aberdeen	61	54	54	Tr.	3	0.0
	Wick	59	51	*	Tr.	0.5	*
16	Lerwick	59	52	*	1	0.3	0.1
17	Blacksod Point	57	52	*	Tr.	0.4	*
18	Malin Head	56	53	*	0.4	2	0.1
	Aldergrove	58	53	51	0.1	0.1	0.0
	Donaghadee	61	51	*	0.1	-	*
19	Birr Castle	56	50	50	0.5	2	0.0
20	Valentia Obsy.†	57	51	50	0.4	0.1	0.1
	Roches Point	60	52	*	-	0.1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
										Yesterday.		To-day.	
Kew	18	bcy	bcy	bcy-bc	72	53	50	-	-	8·8	*	*	7
Croydon	217	bcy	bcy	bc pr bcw	70	51	51	-	1	8·3	*	*	6
Greenwich (Royal Observatory)	149	bcy	bccy	cp. c3	77	53	50	-	Tr.	7·9	38	71	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	7·5	*	*	*
Westminster (St. James' Park)	27	*	*	*	72	54	51	-	-	7·7	35	75	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	9·3	*	*	*
Camden Square	110	c	c	*	72	53	52	-	-	*	*	70	*
Kensington	80	bc	bc	*	72	53	50	-	-	9·0	At 18h. 70	74	*
Hampstead Observatory	450	bcb	borc	*	70	49	45	0·3	Tr.	9·4	*	75	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 7th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 8th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1008.3	-	0	bc	61	1012.4	-	0	bc	57
Brussels	1006.4	-	0	bc	54	1007.9	WSW	3	c	55
Berlin	1001·3	-	0	c/TLR	68	999.7	WSW	5	r.r.	55
Zürich	1009.5	S	2	r.r.	52	1013.5	WNW	4	c	54
Rome	1008.5	S	3	c	82	1012·3	SW	2	bc	77

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 8th. 0

South Kensington. Max.	Time.	Min.	Time.
0·5	7h. 7th	Nil	10h. to 12h. 7th

Kew Observatory. Max.	Time.	Min.	Time.
0·1	23h. 7th	<0·1	9h. to 12h. 7th

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
?	52	?	-
66	48	25	-
?	55	?	33
63	50	25	10
95	70	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† The observations are from Valentia W/T station

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 9th July, 1931.

No. 25431.

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (3)	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)	1007·8	0	W'S	4	u	65	55	8	8	3	–	7-8	9+	1500
	Croydon	1008·2	+6	W	1	c/pr	60	85	6	8	7	–	7-8	9+	2500
	S. Farnborough	1008·2	+2	WSW	4	c	66	55	8	8	–	–	9+	9+	2500
	Winchester	1009·0	+4	W	4	c	61	65	8	8	3	–	7-8	9	2500
	Boscombe Down	1008·4	-4	W	4	c	62	75	7	8	–	–	9+	9+	2500
	Calshot, S'thmtn	1009·5	+2	W	4	c/pr	62	75	8	8	4	–	7-8	9+	1500
	Dungeness	*	*	SW	5	c	*	*	7	8	7	*	4-6	7-8	2500
	Lympne	1007·9	W3W +2	~~NW~~	5	pr	63	65	7	9	–	–	7-8	7-8	2500
2	Shoeburyness	1007·5	-4	WSW	3	c	62	65	7	8	–	–	9+	9+	4000
	Felixstowe	1006·6	0	W'S	3	bc	67	55	8	2	7	–	4-6	4-6	2500
	Gorleston	1003·9	-4	W'N	4	bc	67	75	7	2	–	–	4-6	4-6	2500
	Cranwell	1004·9	-4	WSW	4	c	61	75	7	8	–	6	7-8	9+	2500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1007·3	0	W	3	$r_o r_o$	58	75	8	8	–	–	10	10	1500
	Upper Heyford	1007·8	+4	WSW	4	c	60	75	8	8	7	–	4-6	9	4000
	Leafield	1007·9	+4	WSW	3	c/r	56	85	8	5	2	–	7-8	10	4000
4	Ross-on-Wye	1008·2	0	W	3	pr	59	75	8	8	–	–	10	10	4000
5	Portland Bill	1010·2	+6	WSW	5	c	60	85	8	8	4	–	4-6	7-8	2500
	Plymouth	1011·3	0	W'S	4	c	59	65	8	8	3	–	7-8	9	2500
	Falmouth	1012·4	+2	W'N	4	c	59	65	8	8	–	–	7-8	7-8	4000
	Scilly (St. Mary's)	1012·7	0	WNW	3	c	60	75	8	8	3	1	4-6	9	4000
	Guernsey	1013·1	+6	SW	2	c	62	75	8	8	–	–	7-8	7-8	2500
6	Pembroke	1009·6	+4	W	4	c	56	85	8	8	6	–	4-6	9+	2500
7	Holyhead	1007·9	-2	W'S	4	c	57	95	7	5	–	–	10	10	450
	Chester (Sealand)	1006·3	-6	NW	3	c	60	85	8	5	–	–	10	10	1500
8	L'pool (Bidston)	1006·3	0	WNW	4	c	59	85	9	8	–	8	4-6	7-8	2500
9	Harrogate	1004·0	-6	S'W	4	c	63	65	8	1	1	–	4-6	9+	4000
10	Spurn Head	1002·7	0	NW	3	c	64	75	6	5	7	–	7-8	10	4000
	Tynemouth	1002·3	-6	W	2	$r_o r_o$	58	95	6	6	–	–	10	10	1500
11	Inchkeith	1004·5	-6	WSW	2	rr	56	95	5	6	–	–	10	10	800
12	Renfrew	1004·1	-6	NW	2	c/r	62	95	7	6	2	–	7-8	10	800
	Eskdalemuir	1005·3	-2	NW	1	$d_o d_o$	62	85	6	6	2	–	7-8	10	1500
13A	Tiree	1004·3	-2	NW	4	rr	57	85	6	6	2	–	4-6	10	1500
13B	Stornoway	1006·4	0	NW	2	c	57	95	7	5	1	–	4-6	9	1500
15	Dalwhinnie	1006·6	0	ENE	1	c	59	85	8	4	7	–	4-6	7-8	1500
	Aberdeen	1007·0	-2	NNE	1	c	58	55	8	4	1	–	7-8	10	800
	Wick	1004·1	+4	NW	3	o/r	59	95	8	5	–	–	10	10	800
16	Lerwick	1005·7	0	E	2	o	57	95	6	5	–	–	10	10	1500
17	Blacksod Point	1004·9	-4	N	2	b	65	75	8	–	–	9	0	Tr.	–
18	Malin Head	1009·5	-2	NNW	3	$i d_o$	54	95	7	6	–	–	10	10	<150
	Aldergrove	1006·7	0	W	2	c	57	95	7	5	1	–	7-8	9+	800
	Donaghadee	1006·8	0	W'N	2	c	58	85	8	5	1	–	9	10	800
19	Birr Castle	1006·5	0	W'N	1	c	56	85	8	5	2	–	4-6	9	1500
20	Valentia Obsy.	1009·2	0	W	2	c	57	85	8	5	–	–	9+	9+	2500
	Roches Point	1011·1	-6	W'N	3	c	58	65	9	7	2	2	2-3	9	2500
		1010·6	-4	N	2	c	59	75	8	3	–	–	7-8	7-8	1500

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

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1008·5	+10	W	4	c	61	65	8	7	3	–	2-3	9+	1500	0	*
	Croydon	1008·5	+6	W	4	c	61	75	8	8	–	–	9+	9+	2500	1	*
	S. Farnborough	1009·0	+10	W'S	3	c	62	65	9	7	–	–	9+	9+	2500	1	*
	Winchester	1009·9	+10	W	4	c	57	85	8	5	–	–	9+	9+	2500	0	*
	Boscombe Down	1009·6	+10	W	4	c	59	85	8	8	–	–	9+	9+	1500	1	*
	Calshot, S'thmtn	1010·2	+6	SW'W	3	c	60	75	8	8	–	–	9+	9+	4000	0	1
	Dungeness	*	*	SW	6	c	*	*	7	8	3	*	4-6	7-8	2500	*	4
	Lympne	1008·6	+10	WSW	5	c	60	75	7	5	3	–	7-8	9	1500	0	*
2	Shoeburyness	1007·4	+2	W	3	c	62	75	7	5	6	–	4-6	7-8	4000	0	*
	Felixstowe	1006·5	+2	W	4	c	65	55	8	8	3	8	4-6	7-8	2500	0	2
	Gorleston	1003·8	+2	W	4	c	66	85	7	2	1	–	2-3	7-8	2500	0	2
	Cranwell	1004·8	0	W'S	4	c	61	75	7	5	1	8	7-8	10	4000	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1007·5	+2	W	4	$i r_o$	57	85	8	6	2	–	7-8	9+	1500	1	*
	Upper Heyford	1008·3	+4	W'S	5	c/r	57	85	8	8	7	–	7-8	10	800	1	*
	Leafield	1008·4	+4	W	4	c	56	85	8	5	7	–	7-8	9+	4000	0	*
4	Ross-on-Wye	1008·7	+4	W	3	c	58	75	8	8	–	–	9+	9+	4000	1	*
5	Portland Bill	1010·1	-2	WSW	6	c	58	85	8	8	4	–	7-8	7-8	2500	0	4
	Plymouth	1011·4	0	WSW	4	bc	59	65	8	7	–	1	4-6	4-6	2500	0	2
	Falmouth	1012·3	0	WSW	4	bc	58	75	8	1	–	1	2-3	4-6	4000	0	2
	Scilly (St. Mary's)	1011·8	-6	SW	3	c	59	75	8	8	3	–	4-6	7-8	4000	0	3
	Guernsey	1013·1	0	SW	3	bc	61	75	9	8	–	1	4-6	4-6	4000	1	3
6	Pembroke	1009·7	-2	WSW	4	c	57	85	8	8	–	–	9	9	2500	0	2
7	Holyhead	1008·0	+2	WSW	4	c/r	56	95	6	5	–	–	10	10	800	1	1
	Chester (Sealand)	1006·9	+6	WNW	3	$i d_o$	59	85	7	5	–	–	9+	9+	1500	0	*
8	L'pool (Bidston)	1006·5	0	WNW	5	c	57	85	8	5	2	–	4-6	10	2500	0	*
9	Harrogate	1004·1	0	SSW	5	rr	55	95	7	6	2	–	7-8	10	2500	1	*
10	Spurn Head	1002·3	0	NW'W	6	ir	61	85	6	6	3	–	4-6	10	4000	1	3
	Tynemouth	1002·5	0	NW	2	rr	55	95	6	6	–	–	10	10	1500	1	2
11	Inchkeith	1004·3	0	WSW	2	$i r_o$	58	95	6	5	–	–	10	10	1500	1	1
12	Renfrew	1004·1	0	NW	1	c/r	64	85	8	5	8	8	7-8	9	4000	1	*
	Eskdalemuir	1005·7	+4	NW	1	$r_o r_o$	59	95	6	6	2	–	7-8	10	1500	1	*
13A	Tiree	1004·0	+2	S'E	1	rr	57	85	6	6	2	–	4-6	10	800	1	*
13B	Stornoway	1006·7	0	WNW	2	c	56	95	8	5	2	–	4-6	7-8	1500	0	1
15	Dalwhinnie	1007·5	+4	NE	3	bc	56	95	8	5	6	–	4-6	4-6	2500	0	2
	Aberdeen	1005·7	+2	NE	2	c	59	85	8	3	8	–	4-6	7-8	800	0	*
	Wick	1003·4	-4	NW	4	bc	61	85	8	7	4	1	4-6	4-6	800	1	1
16	Lerwick	1004·8	-4	NNW	4	bc	55	95	8	5	–	–	4-6	4-6	1500	0	3
17	Blacksod Point	1003·4	-10	N'W	3	bc	61	75	8	5	4	–	1	2-3	1500	0	*
18	Malin Head	1009·4	0	W	3	c	56	95	8	5	–	–	10	10	220	0	2
	Aldergrove	1007·2	+16	WNW	3	jp	57	95	8	8	6	9	7-8	9+	1500	0	2
	Donaghadee	1007·2	+6	W'N	2	$i d_o$	57	95	7	5	1	–	9	10	800	1	*
19	Birr Castle	1006·9	+6	N'E	1	$i d_o$	55	95	8	6	–	–	10	10	800	0	0
20	Valentia Obsy.	1008·7	-2	WSW	2	c	59	85	8	5	2	–	9+	10	2500	0	*
	Roches Point	1010·6	-2	NW'W	3	bc	60	75	9	7	3	1	4-6	4-6	2500	0	2
		1009·9	-4	W	2	c	57	75	8	3	–	–	9+	9+	1500	0	2

PAST 24 HOURS.

Weather. 7h.–13h. 8th (37)	13h.–18h. 8th (38)	18h. 8th to 1h. 9th (39)	1h.–7h. 9th (40)
ccuy	c	c	cbc
cPR	cp_o	cbcb	bc
bcc	$cp_o vc$	cb hc	bc bvw
$cp_o c$	c	cb	bcv
$cm_o c$	$cp_o rc$	cpr_o	bc
$cp_o r$	cPr	cbw	bw bc
bc	bc	*	c
bc cpr	ct $p_o r$	cbc	bbc
$cir_o 3o$	cbc	bc	bc
cbc	bcqvcqy	cqybcq	bcqcq
cbcq	bcc	cq	coq
$cm_o 3o$	c	$cr_o r_o$	$r_o cr_o$
*	*	*	ccjp
cor_o	cr_o	cr_o	cr_o
cbcc	cir	cjp	c
cir	cir_o	cbc	cbc
c	cip_o	c	cbc
$cp_o rc$	c	cbcbc	bcc
cir_o	cbc	bcc	bcodd m
bc	bc	bcor	ormd.
$cp_o c$	cbc	coddo	ddmme
cprbc	bccbb	bccw	corro
cd_o	c	cbcb	bw
$c_i d_o c$	$Dr_o m$	$cm_o cc$	ir_o
cpr_o	cpr_o	idc	$cr_o r_o m_o$
$cp_o vc$	ccy	$ccpr_o$	$r_o pd$
c	crr	crr	c
bc	bc	oir	oc
orr	oRR	oiroc	coir
Frr	Frrrr	c	c
cir rr	$cr_o r_o$	cbcw	bccw
$i d_o r_o$	$cr_o r_o$	$r_o r_o c$	cbcc
$crr m_o$	crr	crrc	cbc
foc	c	c	cff
c	cbc	o	o
c	c	*	c
orrc r_o	cbc	bc	bcq
Ffr rom $_o$ m	$am_o bc$	$omm_o m$	$om_o m$
offe, bc	bc	$bcom_o$	om_o
id	idc	c	ido
$cd_o c$	c	cbc	$bcp_o e$
$cid_o yc$	$id_o DD$	crr	$cird_o$
c	cid_o	cir_o	$cir_o c$
c	c	c	cpr_o
cvbc	cvbc	bcbv	bwb
cpocg	cgir	$ir_o cbc$	

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

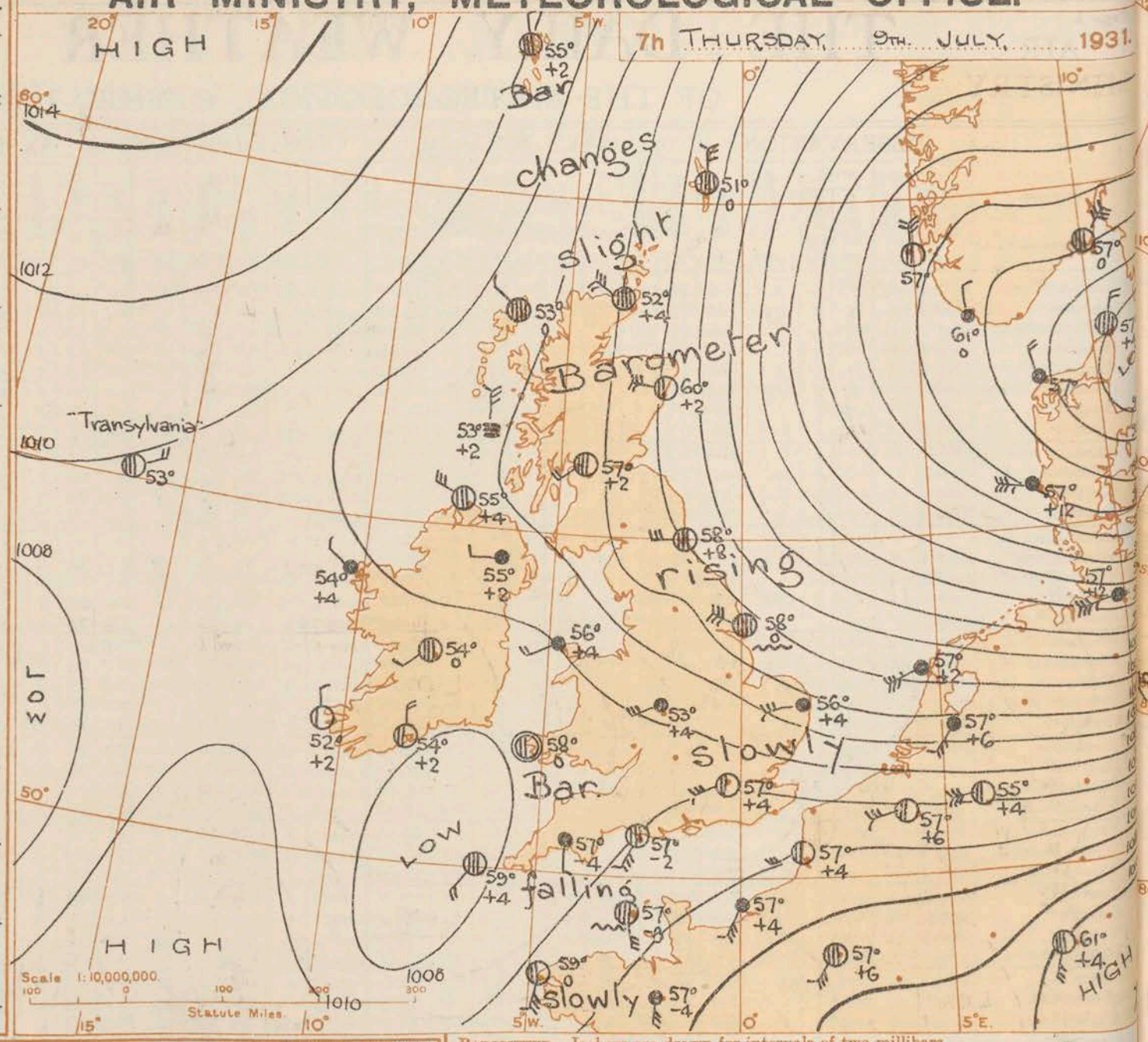
REPORTS from HEALTH RESORTS for 8th JULY, 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 7th to 9h. 8th	Temperature. Max. 9h.—17h. 8th	Rainfall. Night. 17h. 7th to 9h. 8th	Rainfall. Day. 9h.—17h. 8th	Sunshine. Sunrise to 17h. 8th	Sunshine. Sunrise to Sunset. 7th
1	Tunbridge W.	bccp	cbccp	52	66	-	1	6.4	10.0
	Bournemouth	bc	bcco	50	65	-	-	3.3	10.0
	Ventnor ...	dbbc	bcb	53	62	-	-	8.0	13.9
	Southsea ...	bcp	ocpbc	53	64	-	2	4.1	14.4
	Bognor Regis	bbcpc	bcpr	51	64	-	1	5.5	12.7
	Littlehampton	bcp	bcp	50	63	-	2	5.4	13.5
	Worthing ...	bcr	cr,c	52	64	-	1	5.8	12.8
	Brighton ...	bbcr	cpbc	53	64	-	Trace	7.1	12.7
	Eastbourne†	bbc	bccobc	54	63	-	Trace	10.0	13.2
	Hastings† ...	bcbbc	bc	52	67	-	-	8.6	11.5
	Folkestone ...	cbc	bccp	54	68	-	Trace	6.5	10.0
	Dover... ...	bccbc	bcc	55	65	Trace	-	5.8	9.6
	Deal	cbco	oc	54	68	-	-	3.5	9.0
	Ramsgate ...	bcc	cpcpc	54	69	0.4	1	4.0	8.7
	Margate ...	cm,bc	bccp	54	68	0.5	2	3.6	7.6
2	Southend ...	c	crq,	55	68	Trace	0.2	2.4	8.6
	Maldon ...	crc	bcc	53	68	2	0.3	2.4	5.5
	Clacton-on-Sea	cbcc	cbcc	54	69	-	-	5.0	7.5
	Dovercourt ..								
	Lowestoft ...	irebc	cbcc	55	67	2	-	7.5	7.8
	Skegness ...	bc	bcm,o	53	67	-	-	5.4	9.5
	Mablethorpe	oc	cop,	52	66	-	Trace	1.5	11.6
	Cleethorpes ...	cm,	bc	54	68	-	-	3.4	13.9
3	Leamington S.	oc	bcco	51	64	-	-	1.7	5.8
4	Cheltenham†	c	opo	49	62	1	1	0.2	3.0
5	Bath	cbcc	c	49	62	Trace	-	1.5	4.3
	Weymouth ...	bcc	c	53	64	-	-	1.5	9.8
	Jersey ...	bcpc	cbc	56	62	3	Trace	7.4	12.3
	Torquay ...	,acvcbcbcy		52	64	0.1	-	1.8	2.9
	Penzance ...	b	b	54	64	0.2	-	6.7	7.3
	St. Ives ...	c	b	53	62	-	-	5.9	6.1
	Bude ...	pcc	cpbc	54	61	1	0.2	1.8	7.3
	Ilfracombe ...	odc	bcc	55	61	0.4	0.3	2.5	4.0
6	Aberystwyth	c	cpr,c	55	58	-	0.3	0-0	6.7
7	Llandudno ...	oid,	cir,d	55	62	-	0.2	0.4	12.0
	Colwyn Bay...	codo	od	55	62	-	Trace	0.7	10.9
	Rhyl	cbc	bcc	55	62	-	-	2.7	12.1
8	Wallasey ...	cbc	bcc	56	62	-	-	2.1	11.8
	Southport‖ ...	o	o	56	62	-	-	2.5	12.0
	Blackpool ...	c	c	56	63	-	-	1.2	11.7
	Morecambe ...	c	bcdp	53	61	-	Trace	0.2	12.0
9	Ilkley... ...	b	bcr	51	65	-	Trace	2.1	9.7
10	Berwick-on-T.	oRR	RRo	52	58	Trace	16	0.0	1.6
11	Dunbar ...	brrm,	orrm,	52	57	0.3	11	0.0	3.9
12	Douglas ...	ccb	cbc	51	60	-	-	0.6	9.8

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h THURSDAY, 9TH. JULY, 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th July, 1931.
1. S.E. England	Wind southwest or west, moderate or fresh; variable cloud; probably a little rain; moderate temperature.
2. E. England... 3. E. Midlands 4. W. Midlands	Wind westerly, moderate or fresh, strong locally on East Coast at first; mainly cloudy; occasional rain at first; moderate temperature.
5. S.W. England	Wind variable, light to fresh; cloudy; local drizzle or rain; moderate temperature.
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind westerly or variable, moderate; cloudy or variable sky; perhaps occasional rain or drizzle; moderate temperature.
10. N.E. England 11. S.E. Scotland	Wind northwesterly, moderate or fresh, strong on coast at first; mainly cloudy today, perhaps less settled tomorrow; moderate temperature, or rather warm locally.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland.	Wind northerly, moderate; mainly fair; moderate temperature,
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind northwest or north, moderate or fresh, strong in exposed places; mainly cloudy today, perhaps less settled later; moderate or rather high temperature.
17. N.W. Ireland 18. N.E. Ireland	Wind variable or north or northeast, moderate; cloudy; drizzle or rain at times; moderate or rather low temperature.
19. S.E. Ireland 20. S.W. Ireland	Wind northerly or variable becoming southerly, moderate or fresh; mainly fair at first, less settled later; moderate temperature.

H.M. Stationery Office Press, Kingsway W.C.2. 32-2231 m 75 D.E.C.O. 44/305 2/1670.731

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. = ⊙
WEATHER SYMBOLS :—
○Clear sky. ◔Sky less than 1/10 clouded. ◑Sky 1/10 to 5/10 clouded. ◕Sky 6/10 to 9/10 clouded. ●Overcast sky.
●Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ϒ Thunder. ⱾThunderstorm.
SEA DISTURBANCE.~~Rough. ≈≈High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A deep depression centred over Northern Denmark is now almost stationary. A secondary depression south of Ireland and a larger disturbance west of Ireland will probably move east-south-east. Weather will be somewhat unsettled, though with fair periods.

FURTHER OUTLOOK.

Rather unsettled.

Gale Warning.
North Cone at 0830 G.M.T. on 9th in 10, 11, 15, 16.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S. Director.

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

Morning of
THURSDAY.
July 9th
1931.

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.
⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 9th July, 1931.

No. 25431

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1009.0	-2	WSW	4	b	53	85	7	-	3	-	0	1	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1010.6	-2	WSW	3	b	52	85	8	-	.	-	0	0	-
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1009.6	0	WSW	4	bc	52	85	7	-	32	-	0	2.3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1004.6	+2	W	4	c	57	85	7	6	2	-	4.6	10	2500
	Cranwell	240	1004.6	-2	WSW	5	c.c	55	95	6	6	-	-	10	10	1500
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1010.3	-4	WSW	4	bc	57	85	8	0	4	-	0	4.6	-
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1011.1	-14	SSE	2	rr	55	95	7	6	-	-	10	10	2500
	Scilly (St. Mary's)	163	1009.0	-20	SE'S	3	DD	56	95	5	6	-	.	10	10	2500
	Guernsey	175	1012.6	-8	-	0	c	56	95	9	8	-	.	7.8	7.8	2500
6	Pembroke	142	1009.0	-4	W	2	b	55	95	8	4	-	-	1	1	2500
7	Holyhead	26	1007.9	0	W'N	4	ic	56	95	7	6	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1001.8	0	NNW	6	o|r	56	95	6	6	-	-	10	10	2500
	Tynemouth	67	1002.1	-4	W	2	c	57	95	7	6	.	.	7.8	7.8	1500
11	Inchkeith	190	1003.7	-4	WSW	2	c	55	95	7	5	8	-	4.6	9	4000
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1007.5	-4	-	0	0	53	95	6	5	-	-	10	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1003.8	-8	NW	5	0	53	95	5	5	-	-	10	10	1500
16	Lerwick	54	1002.1	-2	N'W	4	0	52	95	6	5	-	-	10	10	220
17	Blacksod Point	18	1008.5	-4	W	2	c	54	95	7	5	-	-	9	9	4500
18	Malin Head	52	1007.1	0	W	2	bc|p	54	95	7	3	7	-	2.3	4-6	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1010.1	-10	NW	1	b	51	85	8	-	-	-	0	0	.
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1009.7	+6	SW'W	3	bc	58	75	8	7	3	9	Tr	2-3	2500	0	*
	Croydon	1009.8	-20	WSW	4	bc	57	75	8	-	9	9	-	2-3	-	0	*
	S. Farnborough	1010.0	+2	WSW	3	bc	58	75	9	-	8	1	Tr	1	1500	0	*
	Winchester	1010.3	+2	WSW	3	bc	56	85	8	7	-	1	2-3	2-3	1500	0	*
	Boscombe Down	1010.2	-2	WSW	3	bc	55	85	8	-	1	1	-	2-3	-	0	*
	Calshot, (S'thmtn)	1010.5	+2	SW'S	4	bc	59	75	8	5	4	-	4-6	7-8	1500	0	1
	Dungeness	*	*	SW	5	c	*	*	7	8	7	*	4-6	7-8	2500	*	3
	Lympne	1009.9	+2	SW'W	4	bc	56	85	9	2	-	1	1	4-6	2500	0	*
2	Shoeburyness	1009.0	+2	SW'S	6	bc	58	65	8	5	3	1	2-3	4-6	7200	0	*
	Felixstowe	1007.5	+8	WSW	5	c	57	75	8	5	7	-	4-6	9	4000	0	3
	Gorleston	1004.5	+4	W	4	ir.	56	95	6	6	-	-	10	10	1500	1	3
	Cranwell	1005.7	+10	WSW	4	c	56	95	6	5	2	-	9	10	450	0	*
3	Cardington	1007.7	+6	SW'W	4	c|p	56	75	8	5	7	-	4-6	9	2500	*	*
	Birmingham	1008.4	+4	WSW	3	r.r.	53	85	7	6	2	-	7-8	9+	1500	1	*
	Upper Heyford	1008.8	+4	WSW	3	c	55	85	8	5	4	4	4-6	7-8	2500	0	*
	Leafield	1008.9	+2	SW	3	bc	52	85	9	5	3	1	4-6	7-8	4000	0	*
4	Ross-on-Wye	1009.0	0	SW	2	bc	56	95	9	5	5	9	1	4-6	4000	1	*
5	Portland Bill	1010.0	-2	SW	4	c	57	95	8	8	7	-	7-8	9+	1500	0	3
	Plymouth	1009.3	-4	SSE	1	d.d.	57	95	6	5	-	-	10	10	2150	1	0
	Falmouth	1008.8	-2	SE	3	d.d.	57	95	6	6	-	-	10	10	2500	1	2
	Scilly (St. Mary's)	1007.7	+4	SW	2	fs	59	95	6	5	-	-	9+	9+	1500	1	2
	Guernsey	1010.7	-8	SSE	3	o	57	95	7	5	-	-	10	10	1500	1	4
6	Pembroke	1008.7	0	-	0	b	58	85	8	1	-	1	1	2-3	4000	0	1
7	Holyhead	1008.4	+4	W'S	2	r.r.	56	95	8	5	7	-	1	10	4000	1	1
	Chester (Sealand)	1007.5	+10	W'N	3	r.r.	57	85	6	6	2	-	7-8	10	1500	1	*
8	L'pool (Bidston)	1007.5	0	WNW	4	o|d	55	95	8	6	2	-	4-6	10	2500	0	*
9	Harrogate	1004.6	+6	SW	5	c	56	95	8	6	3	-	1	9	2500	1	*
10	Spurn Head	1002.7	0	NWW	6	c	58	95	6	5	3	9	2-3	9+	2500	0	4
	Tynemouth	1002.0	+8	W	3	c	58	95	6	6	-	-	7-8	7-8	~~2200~~ 1500	1	2
11	Inchkeith	1003.7	0	WSW	3	c	55	95	6	5	4	-	2-3	7-8	3700	0	2
	Leuchars	1002.7	+2	WNW	3	c	62	75	9	5	3	-	4-6	7-8	2500	0	1
12	Renfrew	1005.3	+2	SW	2	c	57	95	7	5	3	1	1	7-8	1500	1	*
	Eskdalemuir	1003.4	0	SE	2	bc	62	85	8	-	3	2	-	4-6	-	1	*
13A	Tiree	1006.5	+2	N	4	f.	53	95	3	5	-	-	10	10	2150	1	1
13B	Stornoway	1007.1	0	NW	1	o	53	95	5	5	-	-	10	10	220	0	0
15	Dalwhinnie	1005.7	-2	-	0	bc	57	85	8	7	-	-	7-8	7-8	4000	1	*
	Aberdeen	1001.6	+2	WNW	5	bc	60	75	8	5	3	-	1	4-6	1500	1	1
	Wick	1003.8	+4	NW	5	o	52	95	6	5	-	-	10	10	1500	0	3
16	Lerwick	1001.6	0	N	4	o	51	95	6	5	-	-	10	10	450	0	*
17	Blacksod Point	1008.8	+4	NW	1	DD	54	95	6	6	-	-	10	10	2150	1	2
18	Malin Head	1007.1	+4	NW'W	3	c	55	95	8	5	-	-	9+	9+	4000	0	2
	Aldergrove	1007.4	+2	W	1	id.	55	95	7	5	2	-	~~7-8~~ 9	~~9~~ 10	800	1	*
	Donaghadee	1006.7	+2	SW	2	c	56	95	8	5	-	-	9	9	1500	1	1
19	Birr Castle	1008.2	0	SW	1	c	54	95	8	8	-	-	7-8	7-8	2500	1	*
20	Valentia Obsy.†	1009.7	+2	NNW	1	bc	52	95	8	5	-	1	1	1	4000	0	1
	Roches Point	1008.9	+4	N	2	bc	54	95	8	5	-	-	4-6	4-6	2500	0	2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 8th Hrs. (36)
1	London (Kew)	66	51	47	-	-	4.8
	Croydon	65	51	47	2	-	5.8
	S. Farnborough	69	47	38	Tr.	-	5.0
	Winchester	64	45	39	Tr.	-	4.4
	Boscombe Down	63	45	~~45~~ 39	Tr.	Tr.	*
	Calshot, (S'thmtn)	65	49	45	2	-	4.0
	Dungeness	66	55	*	-	Tr.	*
	Lympne	68	49	47	0.3	-	5.8
2	Shoeburyness	68	52	49	Tr.	-	3.2
	Felixstowe	69	54	52	-	-	7.3
	Gorleston	68	54	51	-	Tr.	8.7
	Cranwell	65	54	53	-	0.4	2.5
3	Cardington	*	*	*	*	*	*
	Birmingham	61	51	51	Tr.	1	0.3
	Upper Heyford	61	51	50	0.1	-	*
	Leafield	61	49	47	0.1	-	1.7
4	Ross-on-Wye	62	50	47	0.2	-	1.0
5	Portland Bill	60	56	*	Tr.	-	*
	Plymouth	61	55	46	0.1	2	2.6
	Falmouth	62	55	*	-	3	9.2
	Scilly (St. Mary's)	62	55	*	1	4	6.3
	Guernsey	63	53	50	0.2	2	8.6
6	Pembroke	58	53	*	~~Tr.~~ 0.4	-	2.6
7	Holyhead	58	55	53	2	0.2	0.0
	Chester (Sealand)	62	56	54	Tr.	2	1.3
8	L'pool (Bidston)	60	54	54	Tr.	1	1.9
9	Harrogate	63	55	53	1	5	1.2
10	Spurn Head	65	56	*	Tr.	2	3.1
	Tynemouth	59	54	53	22	4	*
11	Inchkeith	59	54	52	6	0.1	0.0
	Leuchars	64	54	48	4	-	0.7
12	Renfrew	63	51	48	4	1	0.6
	Eskdalemuir	58	52	46	9	3	0.0
13A	Tiree	58	51	~~48~~ 46	-	-	0.0
13B	Stornoway	62	52	*	-	-	6.6
15	Dalwhinnie	65	44	35	0.2	Tr.	0.0
	Aberdeen	61	57	54	2	-	4.2
	Wick	62	51	*	0.2	-	*
16	Lerwick	68	51	*	-	-	11.7
17	Blacksod Point	57	52	*	0.5	Tr.	*
18	Malin Head	58	54	*	Tr.	Tr.	1.1
	Aldergrove	53	53	50	Tr.	2	0.0
	Donaghadee	58	53	*	Tr.	2	*
19	Birr Castle	60	52	50	-	Tr.	0.3
20	Valentia Obsy.†	61	43	37	-	Tr.	10.8
	Roches Point	61	53	*	Tr.	2	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (34 hrs. ended 9h.)	Weather. Afternoon. (34 hrs. ended 9h.)	Weather. Night. (34 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.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cuy	c	ebc	66	51	47	-	-	4.8	•	•	8
Croydon	217	cPR	cpr.	cbcbbc	65	51	47	2	-	5.8	•	•	8
Greenwich (Royal Observatory)	149	c	c.	cbey	71	50	44	-	-	4.5	60	57	7
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	4.1	•	•	•
Westminster (St. James' Park)	27	•	•	•	66	53	49	-	-	4.4	53	53	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	4.3	•	•	•
Camden Square	110	c	c	•	68	52	49	-	-	•	•	56	•
Kensington	80	bcce	co	•	68	52	46	-	-	5.3	At 18h. 71	59	•
Hampstead Observatory	450	bc	bc	•	66	48	40	-	Tr.	3.7	•	65	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.5	7h 8th	Nil.	21h 8th to 4h 9th

Kew Observatory. Max.	Time.	Min.	Time.
0.1	15h 8th	<0.1	20h-24h 8th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 8th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 9th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1013.4	WNW	4	bc|q	63	1014.7	SW	4	c	57
Brussels	1008.8	N	4	bc	63	1010.3	WSW	4	bc	57
Berlin	1003.8	SW	5	c	63					
Zürich	1015.6	NW	4	bc	61	1016.8	SW	1	bc	57
Rome						1017.5	-	0	bc	64

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
66	54	3	3
68	50	trace	-
66		12	
66	52	1	-
	57		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

FRIDAY 10th JULY 1931.

No. 25,432

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

Dist.	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1009·5	-2	W	3	c	68	55	8	8	3	1	7-8	7-8	4000
	Croydon	1009·4	+2	WSW	4	c	69	55	8	8	3	-	4-6	7-8	2500
	S. Farnborough	1009·7	+2	SW	3	c	68	65	8	8	-	-	9+	9+	2500
	Winchester	1010·1	+2	SW	3	c	65	65	8	8	1	-	7-8	9+	2500
	Boscombe Down	1010·3	+4	SSW	3	pr.	62	85	8	5	-	-	9+	9+	2500
	Calshot, S'thmtn	1010·6	-2	S'W	¥3	rc	65	75	7	8	-	-	10	10	2500
	Dungeness	*	*	SW	6	cq	*	*	7	8	-	*	7-8	7-8	2500
	Lympne	1010·6	+8	SW	5	c	63	75	9	7	3	-	7-8	7-8	2500
2	Shoeburyness	1009·3	0	WSW	5	bc	70	45	8	1	-	1	2-3	2-3	4000
	Felixstowe	1008·8	+4	W	4	c/r	68	55	8	1	1	-	2-3	9+	4000
	Gorleston	1006·3	+10	W'N	3	ir.	62	85	6	7	-	-	10	10	1500
	Cranwell	1007·5	+12	W	4	c	63	65	7	7	7	-	2-3	9+	5700
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1008·5	+4	WSW	3	c	65	55	8	6	2	-	4-6	7-8	1500
	Upper Heyford	1009·0	0	WSW	4	bc	69	55	8	2	3	-	4-6	4-6	4000
	Leafield	1009·3	+2	SW	3	bc	66	55	8	1	3	-	2-3	4-6	4000
4	Ross-on-Wye	1009·0	+4	SW	3	bc	67	55	8	1	3	-	2-3	2-3	4000
5	Portland Bill	1010·3	+4	SSW	4	c	60	95	5	4	7	-	7-8	9	1500
	Plymouth	1009·7	+6	SW	3	c	61	95	6	5	-	1	7-8	7-8	1150
	Falmouth	1010·2	+8	SW	3	bc	64	85	7	2	3	9	2-3	4-6	4000
	Scilly (St. Mary's)	1009·3	+8	NE W	2	c	63	85	7	5	1	-	4-6	7-8	2500
	Guernsey	1011·4	+10	SW	3	bc	66	75	9	1	-	-	2-3	2-3	2500
6	Pembroke	1009·6	0	SW	1	c	61	85	8	1	6	-	2-3	7-8	2500
7	Holyhead	1009·1	+2	SW'W	3	ir.	60	75	8	4	1	8	Tr.	9+	2500
	Chester (Sealand)	1008·6	+2	NW'W	3	ir.	62	75	8	5	1	-	4-6	7-8	2500
8	L'pool (Bidston)	1008·5	+2	WNW	4	c	59	85	9	6	2	-	4-6	10	2500
9	Harrogate	1006·1	+10	SW'S	6	c/r	59	85	8	6	3	-	1	9	2500
10	Spurn Head	1005·0	+4	WNW	5	c	62	85	6	4	2	-	4-6	7-8	4000
	Tynemouth	1004·3	+8	W	3	bc	69	75	7	2	-	-	4-6	4-6	2500
11	Inchkeith	1003·5	-2	SW	3	c	68	75	6	1	8	-	4-6	7-8	4000
12	Leuchars	1002·9	-2	W	3	bc	76	55	8	2	6	-	2-3	4-6	4000
	Renfrew	1005·4	+6	SW	4	c	64	85	7	5	7	-	Tr.	7-8	1500
	Eskdalemuir	1004·6	+10	SW'S	4	c	68	75	7	5	3	-	4-6	7-8	2500
13A	Tiree	1006·6	0	NW	4	c	56	85	7	5	1	-	4-6	9	1500
13B	Stornoway	1007·3	0	NE	2	0	55	95	7	5	-	-	10	10	1500
15	Dalwhinnie	1004·0	0	N	1	bc	70	55	8	1	-	-	4-6	4-6	4000
	Aberdeen	1003·0	+6	NW	4	b	62	75	8	1	4	-	Tr.	1	1500
	Wick	1004·3	+6	NNW	5	c	55	85	8	4	1	-	7-8	9	1500
16	Lerwick	1001·9	0	NE	6	ojp	51	95	6	5	-	-	10	10	1500
17	Blacksod Point	1009·0	+4	W	1	ir.	57	85	8	5	-	-	7-8	7-8	450
18	Malin Head	1008·0	+6	WNW	3	f-	56	95	4	-	-	-	0	0	-
	Aldergrove	1007·7	+2	-	0	d. d.	59	85	7	5	1	-	4-6	10	1500
	Donaghadee	1007·3	+4	W	2	c	59	85	7	5	-	-	9	9	1500
19	Birr Castle	1008·7	0	NW	1	c	62	65	8	8	-	8	7-8	9+	2500
20	Valentia Obsy.	1009·6	-2	W'N	3	bc	61	75	9	7	-	6	2-3	4-6	2500
	Roches Point	1009·5	+4	SW	2	bc ¥¥	62	75	9	5	-	4	2-3	4-6	2500

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

Dist.	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	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)	1010·3	+4	SW	4	c	68	65	8	8	3	-	2-3	7-8	2500	0	*
	Croydon	1010·0	+2	SW	3	c	65	75	8	7	7	-	7-8	9	4000	0	*
	S. Farnborough	1010·3	+2	SSW	3	c	65	65	8	8	3	-	9	9+	4000	0	*
	Winchester	1010·4	+2	SW	3	c	64	75	8	8	-	-	9	9	2500	0	*
	Boscombe Down	1010·3	0	SSW	4	c	63	85	8	7	4	-	9	9+	800	0	*
	Calshot, S'thmtn	1011·3	+2	SW	4	pr.	60	85	8	9	-	-	9+	9+	1500	0	2
	Dungeness	*	*	SW	3	bc	*	*	7	9	-	*	2-3	4-6	4000	*	2
	Lympne	1011·1	+4	SW	4	bc	62	85	9	7	-	-	2-3	2-3	2500	0	*
2	Shoeburyness	1010·0	+4	SW	3	bc	67	65	8	5	6	-	4-6	4-6	2500	0	*
	Felixstowe	1009·3	+4	WSW	4	bc	69	55	8	6	-	1	4-6	4-6	4000	0	2
	Gorleston	1008·5	+10	-	0	o/r	62	95	6	6	-	-	10	10	2500	1	*
	Cranwell	1008·5	+8	W'S	3	c	63	75	6	5	7	-	4-6	9+	4000	0	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1008·4	0	WSW	2	bc	67	55	8	8	4	9	2-3	4-6	4000	1	*
	Upper Heyford	1009·5	+2	SW'S	3	bc	66	65	8	2	7	-	2-3	4-6	4000	0	*
	Leafield	1009·9	0	SW	3	bc	63	75	9	8	-	5	2-3	4-6	4000	0	*
4	Ross-on-Wye	1009·2	0	SW	3	bc	67	65	8	8	-	-	2-3	2-3	4000	0	*
5	Portland Bill	1010·5	0	SW	4	dd	60	95	5	5	-	-	10	10	800	1	3
	Plymouth	1010·4	+2	SW	2	c	61	85	8	9	3	9	7-8	9	800	1	1
	Falmouth	1011·5	+6	SW'W	5	cq	62	95	8	8	3	-	4-6	7-8	4000	0	2
	Scilly (St. Mary's)	1010·9	+4	WSW	3	r	60	95	7	8	3	-	9+	9+	2500	1	¥2
	Guernsey	1012·5	+12	SW	4	bc	63	85	8	5	3	-	4-6	4-6	1500	0	4
6	Pembroke	1009·3	+2	WNW	1	bc	61	85	8	7	9	9	4-6	4-6	2500	0	1
7	Holyhead	1009·5	+2	SW	4	c	58	85	8	5	7	8	1	9+	4000	0	1
	Chester (Sealand)	1009·3	+2	NW'N	2	c	60	85	8	5	7	1	7-8	7-8	2500	1	*
8	L'pool (Bidston)	1009·4	+4	NWW	3	c	57	85	9	5	1	-	2-3	9+	2500	1	*
9	Harrogate	1007·2	+6	SW'S	4	c	58	85	9	5	4	-	7-8	9	4000	1	*
10	Spurn Head	1006·2	+4	WNW	5	c	62	75	6	4	2	-	7-8	9+	4000	0	4
	Tynemouth	1005·9	+12	WNW	3	bc	65	75	7	2	-	-	4-6	4-6	2500	0	2
11	Inchkeith	1005·3	+12	SW	2	r. r.	57	95	8	6	-	-	10	10	2500	1	1
12	Leuchars	1005·3	+20	ESE	2	c/pr	58	85	7	8	7	3	4-6	9	4000	1	*
	Renfrew	1006·7	+10	S	3	c	62	85	7	8	7	-	9	9+	1500	1	*
	Eskdalemuir	1006·4	+10	SW	4	c	60	85	7	5	2	-	9+	10	1500	1	*
13A	Tiree	1007·0	0	WNW	2	c	56	95	7	5	2	-	4-6	10	1500	0	1
13B	Stornoway	1008·1	+4	ENE	3	c	53	85	7	4	-	-	10	10	2500	0	2
15	Dalwhinnie	1004·8	+2	NE	1	bc	68	55	8	1	-	1	2-3	4-6	4000	1	*
	Aberdeen	1005·3	+10	NW	4	c	56	75	8	5	3	9	2-3	7-8	1500	0	2
	Wick	1005·5	+8	NNW	5	c	52	85	8	5	2	-	4-6	7-8	1500	0	3
16	Lerwick	1002·8	0	NE	6	o	51	85	7	5	-	-	10	10	1500	0	*
17	Blacksod Point	1009·4	+2	NW	1	c	58	85	8	5	-	-	7-8	7-8	450	0	2
18	Malin Head	1008·3	+2	NW'N	3	c	56	95	7	5	-	-	9+	9+	1500	0	2
	Aldergrove	1008·0	+2	-	0	d. d.	59	95	6	5	2	-	7-8	10	800	1	*
	Donaghadee	1008·0	+4	SW	1	c	55	95	7	5	-	-	9	9	1500	0	0
19	Birr Castle	1008·5	0	-	0	c	62	75	8	9	7	-	7-8	10	2500	0	*
20	Valentia Obsy.	1009·3	-4	SSW	3	c	60	75	9	5	3	-	9	9	2500	0	1
	Roches Point	1009·9	0	SW	2	bc	61	75	9	5	-	4	2-3	4-6	2500	0	2

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 9th (37)	13h.–18h. 9th (38)	18h. 9th to 1h. 10th (39)	1h.–7h. 10th (40)
London (Kew)	bcy	cp.bc	bc	bc.bc
Croydon	bcy	bcc	bbcw	bcwcr.
S. Farnborough	bc	cbc	cb,c	cor,c
Winchester	bcc	cpr.bcc	c	c
Boscombe Down	b	cpr.	c	copr.
Calshot, S'thmtn	c	cpr.	cid.	cbcp.
Dungeness	c	cpr.	cid.	r.r.
Lympne	bc	bc	bcvo	c
Shoeburyness	bcv	cbcv	bcb	bcc
Felixstowe	cr.	bc	bcy	bcc
Gorleston	cir.q	cir	ocbc	bc,c
Cranwell	cm.	c3.	cr.bc	bcbz.
Cardington	*	*	*	b
Birmingham	cr.	bc	bc	bc
Upper Heyford	bcy	bcy	bcc	cprm.
Leafield	bcv	bcv	bcc	or.d.
Ross-on-Wye	bc	bc	ccd.	cod.
Portland Bill	cd.cm.	cm.	bcc	cm.
Plymouth	ocd.m.	cm.bc	cbc	oddm.
Falmouth	oid.m.bc	bcq	bccq	cid.mbc
Scilly (St. Mary's)	cid.c	c	epir	orimc
Guernsey	ocbc	bc	bcobc	corrm
Pembroke	bbc	cbc	bc	bccpr
Holyhead	ir.	pr.c	c	cbc
Chester (Sealand)	ir.c	ir.c	cbc	bc
L'pool (Bidston)	d.vo,c	cvd.c	cvbcv	bcv
Harrogate	cr.q	c	cir	cir.
Spurn Head	bc	bc	cpr.	cpr.
Tynemouth	cbc	bcq	bco	oid.
Inchkeith	c	tlR3	cir	d fo
Leuchars	cwbcy	tlRpr	cpr.tc	odomid.
Renfrew	cbcc	bcc,t	Rc	cim.
Eskdalemuir	c	bcc	c	c
Tiree	fc	co	c	cw
Stornoway	o	c	c	c
Dalwhinnie	bc	b		bc
Aberdeen	bccqb	bqbc	bc	c
Wick	om.c	c	cd.d	C
Lerwick	om.	om.	o	oc
Blacksod Point	ir	c	c	c
Malin Head	cvif	cm.c	ce	om.d.
Aldergrove	id.dd.c	id.d.d.	crr	rrir.
Donaghadee	cpr.c	c	od.doff	offirc
Birr Castle	c	c	cp.c	cbc
Valentia Obsy.	bbcv	bcvcv	c	c
Roches Point	bcv	bcv	bcvc	cir.c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

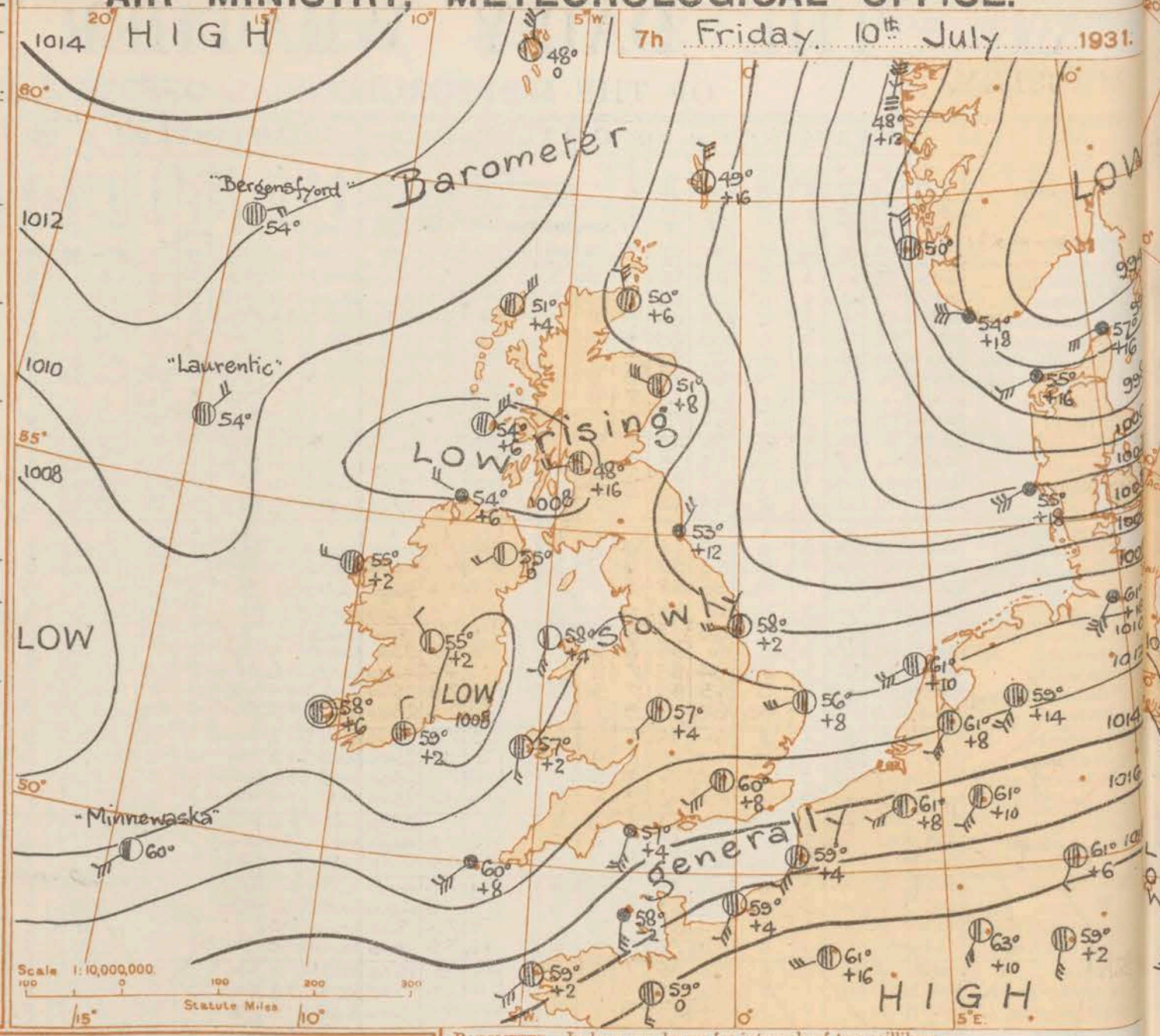
REPORTS from HEALTH RESORTS for 9th. July 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 8th to 9h. 9th	Temperature. Max. 9h.—17h. 9th	Rainfall. Night 17h. 8th to 9h. 9th	Rainfall. Day. 9h.—17h. 9th	Sunshine. Sunrise to 17h. 9th	Sunshine. Sunrise to Sunset. 8th
1	Tunbridge W.	bcb	b	49	69	-	-	12.2	7 3
	Bournemouth	bco	obcdo	48	65	-	0.3	2.7	3.0
	Ventnor ...	cpovc	pcobq	53	62	Trace	Trace	3.0	8.3
	Southsea ...	bco	op.bc	52	67	0.3	Trace	6.6	4.1
	Bognor Regis	bc	e bc	50	64	-	-	7.6	5.7
	Littlehampton	bcc	cd.bc	48	63	0.2	Trace	8.0	5.9
	Worthing ...	bcc	cbc	50	65	1	-	6.8	5.9
	Brighton ...	bc	bc	52	64	3	-	6.9	7.2
	Eastbourne†	cpc	cir.cbc	55	64	-	0.1	8.4	10.4
	Hastings† ...	bbc	cbccb	50	67	0.5	-	8.2	9.0
	Folkestone ...	bbc	bc	51	69	-	-	12.3	6.9
	Dover... ...	bc	bc	53	63	-	-	12.5	5.9
	Deal	b	b	52	68	-	-	12.5	3.5
	Ramsgate ...	bcb	b	52	70	-	-	12.4	4.3
	Margate ...	bc	bc	52	71	-	-	11.7	4.3
2	Southend ...	bcc	bc	53	74	-	-	9.1	2.6
	Maldon ...	cbcb	bbc	52	74	-	-	6.8	2.7
	Clacton-on-Sea	bccbc	bccbc	54	73	-	-	4.7	5.8
	Dovercourt ...								
	Lowestoft ...	cod.c	ciroc	55	65	Trace	2	0.0	8.7
	Skegness ...	om.	om.	49	63	-	-	0.0	5.4
	Mablethorpe	or.	or.m.	56	66	1	1	0.5	1.5
	Cleethorpes ...	coc	co	56	64	3	-	1.8	3.4
3	Leamington S.	oc	cbc	53	70	11	-	4.7	1.9
4	Cheltenham†	bcbc	bcb	52	69	-	-	7.6	0.2
5	Bath	bcc	cp.bc	52	67	-	0.5	6.7	2.2
	Weymouth ...	c	cd.bc	49	66	-	Trace	1.5	1.5
	Jersey ...	rcbc	bc	55	67	3	-	7.3	9.8
	Torquay ...	drdmf	dr.pbc	49	67	1	0.2	4.7	3.2
	Penzance ...	cb	bcpr.	56	67	3	Trace	4.7	9.0
	St. Ives ...	pr	c	54	65	2	0.5	3.3	7.2
	Bude	coc	cop	48	66	0.1	1	1.6	1.8
	Ilfracombe ...	bcc	bcabc	52	62	-	-	4.8	2.5
6	Aberystwyth	cpr.c	cbc	55	63	0.3	-	8.5	0.0
7	Llandudno ...	c	c	55	62	1	-	0.4	0.4
	Colwyn Bay ...	rc	orc	55	64	2	0.3	0.5	0.7
	Rhyl	cpr.	cr.c	56	61	1	Trace	0.0	2.7
8	Wallasey ...	c	cr	56	61	3	0.3	0.0	2.1
	Southport‖ ...	oc	cbccc	56	62	2	-	2.2	2.5
	Blackpool ...	c	c	56	62	3	-	2.5	1.2
	Morecambe ...	cbbcc	bccbc	56	62	4	-	3.3	0.2
9	Ilkley	bc	copbc	54	61	6	Trace	0.1	2.1
10	Berwick-on-T.	cbcb	b.tcro	54	75	Trace	0.5	4.3	0.0
11	Dunbar ...	bcm.	cr.t	55	75	0.3	1	4.0	0.0
12	Douglas ...	cidc	ccbc	53	63	1	Trace	0.6	0.6

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Friday. 10th July 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 10th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind southwest, light or moderate; mainly fair with variable skies; possibility of some rain or drizzle; normal temperature.
5. S.W. England 6. South Wales 7. North Wales	Wind southwest, light or moderate, becoming light variable; some showers at first, then improving temporarily; normal temperature.
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.	Winds light or variable; rain or showers locally, with a possibility of further thunderstorms at first, improving later; normal temperature or rather cool.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind northeast, light or moderate; mainly fair; cool.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable winds, bright periods and local showers; rather cool.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force.
Temperature is given in degrees F. Calm. = ⊙
Weather Symbols :—
○ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 3/10 to 5/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ⊤ Thunder. ⊼ Thunderstorm.
Sea Disturbance. ≋ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

Shallow depression lie over the British Isles while other depressions are centred over Southern Scandinavia and to the west of Ireland. Weather will continue rather unsettled with considerable fair periods in many places.

FURTHER OUTLOOK.

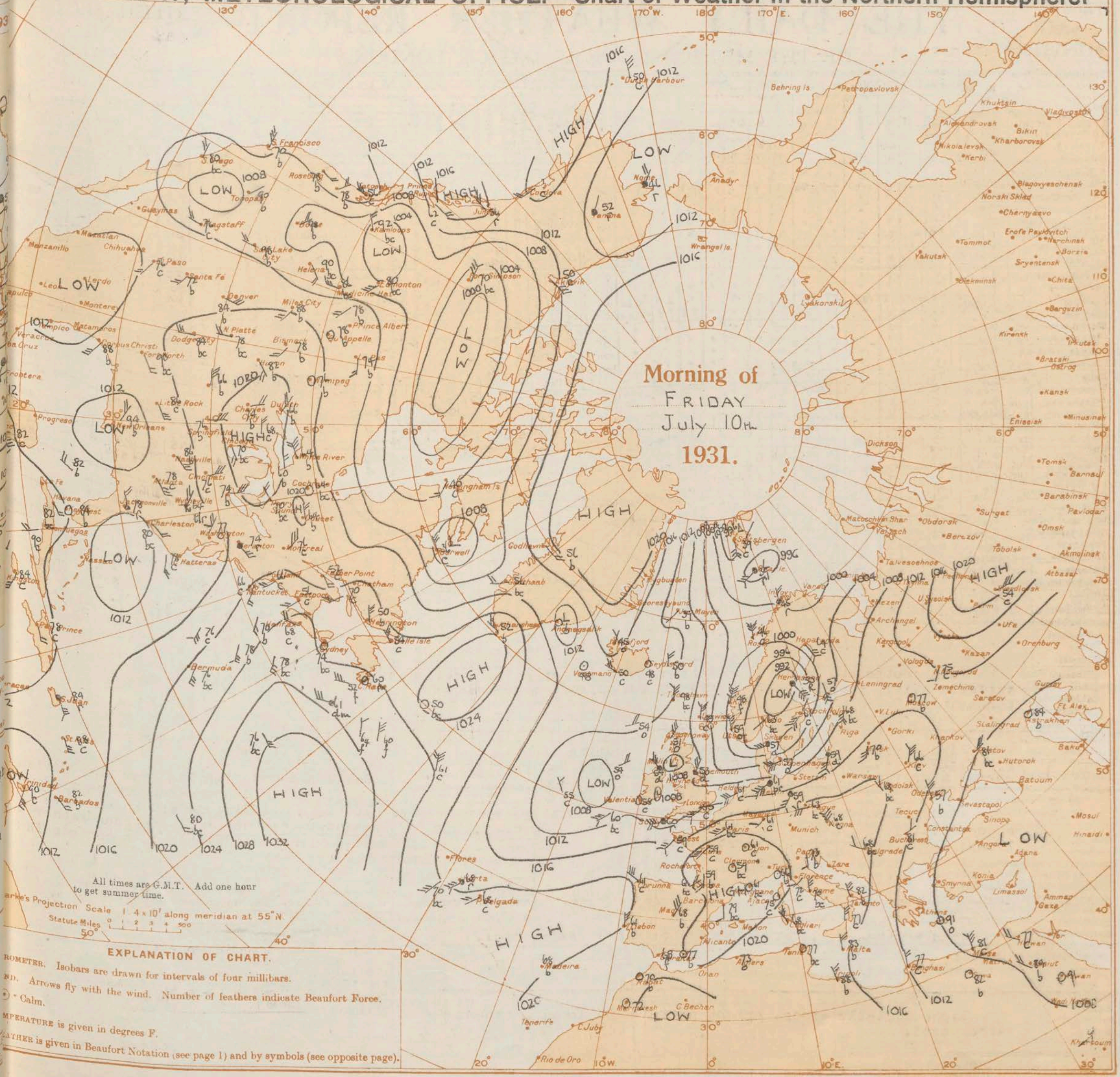
Continuing rather unsettled.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2

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


Morning of
FRIDAY
July 10th.
1931.
HIGH
LOW
1012
1016
1020
1024
1028
1032
1008
1004
1000
996
992
Behring Is.
Petropavlovsk
Anadyr
Wrangel Is.
Nome
Dutch Harbour
Kamloops
Prince Rupert
Juneau
Edmonton
Medicine Hat
Simpson
Akpatok
Lyakorski
Dickson
Yakutsk
Tommot
Verkhoyansk
Khatanga
Norilsk
Dudinka
Igarka
Turukhansk
Yeniseisk
Krasnoyarsk
Irkutsk
Bratsk
Ostrog
Kirensk
Bodaibo
Chita
Borzia
Nerchinsk
Erofe Pavlovitch
Chernyaevo
Norski Sklad
Blagovyeschensk
Khabarovsk
Nikolaievsk
Kerbi
Vladivostok
Khuktsin
Aleksandrovsk
Bikin
Barguzin
Sryentensk
Minusinsk
Tomsk
Barnaul
Barabinsk
Pavlodar
Omsk
Tobolsk
Akmolinsk
Atbasar
Surgut
Obdorsk
Berezov
Matochkin Shar
Talvesochnoe
Archangel
Ufa
Orenburg
Kazan
Vologda
Leningrad
Moscow
Zemchino
Saratov
Gurjev
Ft. Alex.
Astrakhan
Stalingrad
Gorki
Riga
Batoum
Baku
Hutorok
Sevastopol
Tecuci
Constantza
Odessa
Warsaw
Stettin
Copenhagen
Munich
Paris
Rochefort
Clermont
Florence
Rome
Zara
Belgrade
Bucharest
Angora
Adana
Konia
Smyrna
Limassol
Ammap
Gaza
Athens
Malta
Tripoli
Benghasi
Algiers
Oran
Tangier
Madeira
Tenerife
C. Juby
Rio de Oro
Barcelona
Lisbon
Gibraltar
Flores
Belgada
Bermuda
Hatteras
Kingston
Havana
Nassau
Charleston
Jacksonville
Key West
Progreso
Vera Cruz
Tampico
Metamoras
Corpus Christi
Galveston
Brownsville
Monterey
Manzanillo
Mexican
Chihuahua
Leon
Acapulco
Guaymas
Flagstaff
El Paso
Santa Fe
Denver
Miles City
Bismarck
N. Platte
Dodge City
Fort Worth
Little Rock
New Orleans
Memphis
Nashville
Cincinnati
Atlanta
Charleston
Washington
Montreal
Quebec
Father Point
Chatham
Sydney
Belle Isle
Hebrington
Battle Harbour
Nain
Godthaab
Angmagsalik
Julianehaab
Scoresbysund
Ivigtut
Reykjavik
Hvarf
Seydisfjord
Vestmanno
Thorshavn
Aberdeen
Lerwick
Kirkwall
Stornoway
Valentia
Belmullet
Roche Point
Holyhead
Falmouth
Scilly
Jan Mayen
Hopen
Hammerfest
Tromso
Bodo
Trondheim
Bergen
Stavanger
Skagen
Helder
Ijmuiden
Flushing
Ostend
Calais
Cherbourg
Brest
Lorient
Nantes
Roche Point
Valentia
Belmullet
Aberdeen
Lerwick
Kirkwall
Stornoway
Thorshavn
Seydisfjord
Reykjavik
Akpatok
Simpson
Coppermine
Herschel
Dawson
Prince Albert
Winnipeg
Duluth
Chicago
Detroit
Toronto
Buffalo
Pittsburgh
Washington
Norfolk
Hatteras
Cape Race

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

FRIDAY 10th July 1931.

No. 25,432

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

Dist.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1011.6	0	SW'S	3	c	58	95	7	5	-	-	7-8	7-8	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1012.1	+4	SW	4	c	60	85	8	5	-	-	9+	9+	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1012.7	+4	SW'W	4	c	57	95	7	5	-	-	9	9	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1009.7	+2	WSW	2	bc	57	95	7	7	4	-	1	2-3	4000
	Cranwell ...	240	1009.8	+2	SW'W	2	c	55	95	6	5	-	-	7-8	7-8	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1011.8	+4	SW'W	5	c	59	95	8	8	7	-	4-6	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1012.6	+4	SW'W	4	ic	57	95	7	5	-	-	10	10	4000
	Scilly(St.Mary's)	163	1011.3	-6	SSW	4	c	57	95	6	6	-	-	10	10	2500
	Guernsey ...	175	1014.5	+2	SSW	2	bc	58	95	7	5	-	-	4-6	4-6	2500
6	Pembroke ...	142	1009.8	+2	-	0	bc	56	95	8	4	6	-	4-6	4-6	2500
7	Holyhead ...	26	1009.6	0	SW'S	3	c	55	95	7	5	-	-	9+	9+	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1008.2	0	W'S	3	pc	58	85	6	3	3	-	7-8	10	2500
	Tynemouth ...	87	1007.4	0	NW	1	o	58	85	7	5	-	-	10	10	800
11	Inchkeith ...	190	1006.3	0	WSW	2	c	55	95	7	8	-	-	9+	9+	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1009.1	0	NE	3	c	50	85	7	4	-	-	10	10	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1006.9	+2	NW	3	c	49	95	8	8	-	-	9+	9+	1500
16	Lerwick ...	54	1004.7	+14	N	4	c	50	85	7	5	2	-	4-6	10	1500
17	Blacksod Point	18	1009.1	-2	-	0	bc	51	95	7	5	5	-	2-3	4-6	450
18	Malin Head ...	52	1008.3	-2	W'N	2	c	55	95	7	5	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1008.7	-6	S	1	c	56	85	8	5	-	-	9+	9+	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Dist.	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)...	1012.5	+10	SW'S	3	c/pr	62	85	8	5	2	-	9	10	1500	0	*
	Croydon ...	1012.4	+8	SW'W	4	o/r	60	85	6	5	2	-	9	10	800	0	*
	S. Farnborough	1012.6	+6	SW	4	c	60	85	8	5	-	-	9	9	4000	0	*
	Winchester ...	1012.6	+8	SW'S	4	id.	59	85	7	5	-	-	9+	9+	1500	0	*
	Boscombe Down	1012.4	+4	SW	4	o	58	85	7	5	-	-	9+	9+	1500	1	*
	Calshot,(S'thmtn)	1013.2	+10	SW'S	4	c	61	85	8	5	4	1	4-6	7-8	1500	0	2
	Dungeness ...	*	*	SW	5	r.r.	*	*	6	9	-	*	9+	9+	1500	*	3
	Lympne ...	1013.4	+6	SWW	4	id.	59	95	7	5	-	-	9+	9+	450	0	*
2	Shoeburyness	1012.5	+4	W'S	3	c	63	75	8	5	4	-	7-8	7-8	2500	0	*
	Felixstowe ...	1011.6	+2	SSW	3	c	61	85	7	5	-	-	7-8	7-8	1500	0	2
	Gorleston ...	1010.4	+8	W'S	3	c	56	95	7	6	2	-	4-6	10	2500	0	1
	Cranwell ...	1010.7	+8	SW	3	bc	58	75	6	-	3	8	0	2-3	-	0	*
3	Cardington ...	1010.9	+8	SW'W	4	c	61	85	7	5	3	-	9	9+	-	*	*
	Birmingham ...	1011.1	+6	SW	1	bc	58	75	8	0	4	-	0	4-6	-	1	*
	Upper Heyford	1011.7	+6	SSW	3	c/p	59	85	6	5	-	-	9+	9+	800	1	*
	Leafield ...	1011.5	+10	SW'S	3	id.	57	95	8	6	-	-	10	10	450	1	*
4	Ross-on-Wye ...	1011.1	+4	SW	3	o/d	57	95	7	6	7	-	9	10	2500	1	*
5	Portland Bill....	1012.4	+4	SSW	5	dd	57	95	5	5	-	-	10	10	800	0	3
	Plymouth ...	1011.3	-6	S	3	id	59	95	6	5	-	-	10	10	4150	1	1
	Falmouth ...	1011.3	+4	SW'W	4	bc	59	95	7	1	3	-	2-3	4-6	4000	1	2
	Scilly(St.Mary's)	1011.4	+8	SW'W	5	ir.	60	95	7	6	-	-	7-8	7-8	2500	1	3
	Guernsey ...	1014.2	-2	S	3	rr	58	95	4	6	-	-	10	10	800	1	3
6	Pembroke ...	1009.7	+2	SSW	2	c/p	57	95	7	9	6	-	7-8	9+	1500	1	1
7	Holyhead ...	1009.8	+4	S'W	4	bc	58	95	8	5	4	1	1	2-3	800	0	1
	Chester (Sealand)	1010.2	+4	ESE	1	bc	57	85	8	-	3	-	-	7-8	-	0	*
8	L'pool (Bidston)	1010.1	+4	WSW	2	bc	58	75	9	4	3	-	2-3	2-3	5700	0	*
9	Harrogate ...	1009.1	+6	SW	3	c	56	85	7	6	2	-	4-6	9+	2500	1	*
10	Spurn Head ...	1008.8	+2	W	3	c	58	85	6	5	3	1	4-6	7-8	4000	0	2
	Tynemouth ...	1007.9	+12	NE	2	d.d.	53	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith ...	1007.5	+10	E	2	dd	50	95	6	6	-	-	10	10	1500	1	2
	Leuchars ...	1008.7	+4	ESE	2	id.	50	95	6	5	2	-	9	10	800	1	*
12	Renfrew ...	1007.8	+4	WSW	2	o/pr	56	95	6	5	-	-	10	10	800	1	*
	Eskdalemuir ...	1008.3	+4	NNW	2	c	54	85	7	5	-	-	10	10	1500	1	*
13A	Tiree	1007.7	+6	NE	4	c	54	95	8	5	6	-	2-3	7-8	2500	0	2
13B	Stornoway ...	1009.7	+4	NE	3	c	51	85	8	4	-	-	10	10	4000	0	2
15	Dalwhinnie ...	1009.2	+16	NE	2	bc	48	85	8	4	-	-	9	9	1500	1	*
	Aberdeen ...	1008.5	+8	WNW	3	c	51	85	8	9	-	3	9	9	1500	0	1
	Wick	1007.8	+6	NNW	4	c	50	95	8	4	2	-	7-8	10	1500	0	2
16	Lerwick ...	1006.3	+16	N	4	c	49	75	7	5	2	-	4-6	9+	1500	0	*
17	Blacksod Point	1009.5	+2	SW	2	c	55	85	8	5	-	-	10	10	450	0	1
18	Malin Head ...	1008.1	+6	WNW	2	id.	54	95	5	6	-	-	10	10	450	0	1
	Aldergrove ...	1009.0	0	SW	2	bc	55	95	6	5	3	1	4-6	4-6	800	1	*
	Donaghadee ...	1008.5	+2	-	0	c	56	95	7	5	-	-	9	9	800	1	0
19	Birr Castle ...	1008.3	+2	NW	1	bc	55	95	8	0	4	-	0	2-3	-	1	*
20	Valentia Obsy.†	1008.7	+6	-	0	c	58	95	8	5	-	-	9	9	1500	0	0
	Roches Point...	1008.4	+2	N	1	c	59	95	8	5	-	-	7-8	7-8	2500	0	3

PAST 24 HOURS.

Dist.	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 Hrs. (36)
1	London (Kew)...	70	58	54	Tr.	Tr.	9.0
	Croydon ...	70	56	51	-	Tr.	11.6
	S. Farnborough	72	55	47	-	Tr.	8.9
	Winchester ...	67	56	54	Tr.	Tr.	10.4
	Boscombe Down	67	54	48	Tr.	0.1	*
	Calshot,(S'thmtn)	66	59	56	0.2	0.1	7.0
	Dungeness ...	66	57	*	-	0.5	*
	Lympne ...	66	55	54	-	Tr.	14.5
2	Shoeburyness	73	56	51	-	-	10.5
	Felixstowe ...	72	57	55	Tr.	-	4.9
	Gorleston ...	64	54	51	3	-	0.0
	Cranwell ...	67	52	50	-	Tr.	1.0
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	68	54	49	0.1	-	3.6
	Upper Heyford	70	55	54	-	0.2	*
	Leafield ...	68	54	49	-	0.6	11.8
4	Ross-on-Wye ...	69	57	54	-	Tr.	11
5	Portland Bill....	62	56	*	-	-	*
	Plymouth ...	63	55	55	0.2	1	5.5
	Falmouth ...	65	56	*	0.6	0.4	7.2
	Scilly(St.Mary's)	65	57	*	0.4	1	2.5
	Guernsey ...	66	57	55	-	6	9.4
6	Pembroke ...	63	55	*	-	1	11.5
7	Holyhead ...	61	54	50	Tr.	-	0.8
	Chester (Sealand)	63	50	46	0.2	-	0.1
8	L'pool (Bidston)	59	53	50	Tr.	-	0.0
9	Harrogate ...	62	55	52	Tr.	0.2	1.1
10	Spurn Head ...	62	55	*	-	Tr.	1.9
	Tynemouth ...	71	53	52	-	0.2	*
11	Inchkeith ...	69	50	50	9	5	6.1
	Leuchars ...	78	50	50	4	1	6.9
12	Renfrew ...	71	54	53	-	Tr.	*
	Eskdalemuir ...	70	52	50	-	-	6.5
13A	Tiree	54	49	42	-	-	0.0
13B	Stornoway ...	56	49	*	Tr.	-	0.1
15	Dalwhinnie ...	71	48	44	-	-	9.5
	Aberdeen ...	64	49	48	-	-	7.9
	Wick	56	48	*	-	0.1	*
16	Lerwick ...	52	49	*	-	Tr.	0.0
17	Blacksod Point	59	50	*	Tr.	-	*
18	Malin Head ...	56	53	*	-	Tr.	0.0
	Aldergrove ...	60	54	51	Tr.	3	0.0
	Donaghadee ...	61	53	*	0.3	3	*
19	Birr Castle ...	65	50	42	-	Tr.	1.7
20	Valentia Obsy.†	62	55	52	-	-	8.7
	Roches Point...	65	55	*	-	1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	bcy	cp. bc	bc.p.bc	70	58	54	Tr.	Tr.	9.0	*	*	7
Croydon	217	bcy	bcc	bb.c.v.c	70	56	51	-	Tr.	11.6	*	*	7
Greenwich (Royal Observatory) ...	149	cby.	bcy	cb.w.c	70	56	47	-	Tr.	8.6	60	66	7
City (Bunhill Row)	—	*	*	*	77	*	*	*	*	6.7	*	*	*
Westminster (St. James' Park) ...	27	*	*	*						8.8	*	*	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	6.3	*	*	*
Camden Square	110	c	c	*	73	58	55	-	-	*	72		*
Kensington	80	bc	bcc	*	73	58	52	-	-	9.0	At 18h. 69	74	*
Hampstead Observatory	450	bc	bcp	*	70	54	45	Tr.	Tr.	6.3	*	78	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 9th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 10th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1014.6	SW	4	c	68	1018.7	WSW	3	bc	61
Brussels	1012.4	WSW	3	c	64	1015.4	WSW	4	c	61
Berlin	1008.8	SW	4	r.r.	61	1012.2	SW'S	4	r.r.	59
Zurich	1017.8	WNW	1	c	63	1020.3	S	1	bc	59
Rome	1016.6	WSW	3	b	79	1018.9	N	3	bc	70

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.2	7-8h 9th	Nil.	20h 9th 5h 10th

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

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
70	55	0.3	-
68	55	0.1	0.3
66	59	0.6	Tr.
72	54	-	1
86	55	-	-

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.

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 11th July 1931.

No. 25433.

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1013·2	-4	SSW	3	pr.	67	75	8	5	-	-	10	10	2500
	Croydon	1013·0	-4	SW'S	4	c/d	63	85	8	5	-	-	10	10	1500
	S. Farnborough	1012·8	-6	SSW	4	c/d	67	85	8	2	3	-	7-8	7-8	1500
	Winchester	1012·5	-8	SW	4	c	67	75	8	7	7	-	4-6	7-8	800
	Boscombe Down	1012·2	-2	SW	4	c	65	75	8	8	-	-	9	9	2500
	Calshot, S'thmtn	1013·6	0	SW	5	c	65	75	7	8	6	-	4-6	7-8	1500
	Dungeness	*	*	SSW	3	d. d.	*	*	4	6	-	*	10	10	1500
	Lympne	1014·4	+6	SW	4	d. d.	59	95	4	5	-	-	10	10	1150
2	Shoeburyness	1013·6	+2	SW	3	c	66	95 65	8	5	-	-	9	9	2500
	Felixstowe	1012·9	+4	SW'S	4	bc	70	55	8	7	3	-	4-6	4-6	2500
	Gorleston	1011·9	+8	WNW	2	c	62	95	6	7	8	-	9	9	2500
	Cranwell	1011·2	+4	SW	3	c	67	65	7	8	-	-	9	9	4000
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1011·5 D	0	SW	3	c	65	65	8	6	-	-	7-8	7-8	2500
	Upper Heyford	1012·2	0	SSW	4	ir.	63	75	7	6	2	-	7-8	10	1500
	Leafield	1011·7	0	S'E	4	c/pr	63	85	8	8	-	-	9	9	4000
4	Ross-on-Wye	1011·5	0	SW	3	rr	62	85	6	6	-	-	10	10	2500
5	Portland Bill	1013·4	+10	SW	5	c	61	85	8	8	4	9	4-6	7-8	2500
	Plymouth	1013·0	+6	SW	4	c/d	62	85	7	5	-	-	9+	9+	800
	Falmouth	1012·5	+6	WSW	6	pr	61	95	7	3	7	-	4-6	7-8	4000
	Scilly (St. Mary's)	1011·9	+10	WSW	5	c	62	95	7	8	6	-	4-6	7-8	2500
	Guernsey	1015·6	+10	SW	4	bc	66	75	8	5	6	-	4-6	4-6	2500
6	Pembroke	1010·7	0	SW	3	c	62	85	7	2	8	-	4-6	7-8	1500
7	Holyhead	1010·7	+4	SSW	4	bc	63	85	9	1	-	9	2-3	2-3	2500
	Chester (Sealand)	1010·7	+4	WNW	3	c	67	65	8	8	-	-	7-8	7-8	4000
8	L'pool (Bidston)	1010·8	+8	NNW	3	bc	64	65	9	-	4	-	0	4-6	-
9	Harrogate	1010·0	0	SW'S	3	c	67	55	9	8	-	-	7-8	7-8	4000
10	Spurn Head	1010·1	0	-	0	c	67	75	6	2	4	-	4-6	7-8	4000
	Tynemouth	1009·9	+8	NE	1	d. d.	52	95	6	6	-	-	10	10	1500
11	Inchkeith	1010·3	+12	ENE	2	dd	50	95	6	6	-	-	10	10	1500
12	Leuchars	1010·4	+6	ESE	3	c	57	75	7	5	2	-	7-8	10	1500
	Renfrew	1010·3	+14	NE	2	d. d.	54	95	5	5	-	-	10	10	800
	Eskdalemuir	1010·2	+10	SW	3	id.	56	95	6	5	2	-	7-8	10	800
13A	Tiree	1009·1	+6	NE	3	bc	58	85	8	5	6	8	2-3	4-6	2500
13B	Stornoway	1011·2	+4	NE	3	c	53	75	8	4	7	-	7-8	9	2500
15	Dalwhinnie	1010·2	+2	NNE	2	bc	59	65	8	1	3	-	2-3	2-3	4000
	Aberdeen	1010·3	+10	WNW	3	c	53	75	8	7	-	-	10	10	1500
	Wick	1010·4	+12	N	3	c	52	75	8	8	2	-	7-8	10	1500
16	Lerwick	1008·5	+16	NE	X3	c	52	75	7	5	2	-	4-6	10	1500
17	Blacksod Point	1010·7	+8	N	2	c	59	75	9	5	6	-	4-6	7-8	800
18	Malin Head	1009·7	+10	WNW	2	c	57	95	7	6	9	-	4-6	7-8	800
	Aldergrove	1009·2	0	WSW	3	bc	68	65	8	7	3	9	1	4-6	2500
	Donaghadee	1009·4	+2	-	0	c	60	85	7	7	3	-	4-6	7-8	2500
19	Birr Castle	1009·0	0	S	1	c	71	55	8	8	4	-	4-6	7-8	2500
20	Valentia Obsy.	1010·7	+12	SW'W	3	c	60	95	8	8	-	1	7-8	7-8	1500
	Roches Point	1010·0	+6	SW	2	bc	61	85	9	5	-	4	4-6	4-6	2500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. ·mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1013·0	+3	SW'S	4	bc	70	65	8	7	6	-	2-3	2-3	2500	0	*
	Croydon	1012·8	+2	SW	4	bc	66	65	8	7	-	-	2-3	2-3	4000	0	*
	S. Farnborough	1013·1	+3	SW	4	bc	65	75	8	1	3	-	4-6	4-6	2500	0	*
	Winchester	1013·3	+6	SW	4	c	64	75	8	8	-	-	7-8	7-8	2500	0	*
	Boscombe Down	1013·1	+10	SSW	4	c	64	75	8	7	-	-	7-8	7-8	1500	0	*
	Calshot, S'thmtn	1014·2	+6	SW	5	c	62	85	8	5	-	-	7-8	7-8	1500	0	
	Dungeness	*	*	SSW	4	bc	*	*	7	1	7	*	2-3	4-6	2500	*	3
	Lympne	1013·8	-4	WSW	5	bc	65	65	8	1	-	-	2-3	2-3	2500	0	*
2	Shoeburyness	1012·6	-8	SW	3	bc	68	65	8	4	-	-	4-6	4-6	2500	0	*
	Felixstowe	1012·4	-4	S'W	4	bc	67	75	8	8	-	-	4-6	4-6	2500	0	2
	Gorleston	1011·6	0	SW'W	2	bc/pr	65	95	6	2	6	1	2-3	4-6	4000	1	2
	Cranwell	1010·7	0	WNW	2	bc	68	65	7	8	-	-	4-6	4-6	4000	0	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1011·2	+4	SW	2	c	65	75	8	8	6	-	2-3	7-8	2500	1	*
	Upper Heyford	1012·1	+6	SW'W	3	bc	66	65	8	2	3	-	4-6	4-6	4000	1	*
	Leafield	1012·0	+4	SW'S	3	bc	65	65	8	8	-	9	4-6	4-6	4000	1	*
4	Ross-on-Wye	1011·5	+4	SW'W	4	bc	67	55	8	8	-	9	2-3	2-3	4000	0	*
5	Portland Bill	1013·8	+6	SW'W	5	c	59	95	8	8	4	-	4-6	7-8	2500	0	4
	Plymouth	1014·2	+10	WSW	5	id.	59	95	7	5	-	-	10	10	450	1	4
	Falmouth	1014·2	+10	WSW	6	cq	60	85	7	8	-	-	9	9	4000	1	3
	Scilly (St. Mary's)	1014·5	+12	W'S	5	bc	61	85	7	2	-	3 1	4-6	4-6	4000	0	4
	Guernsey	1016·8	+10	SW	5	bo	63	75	8	-	-	-	0	2-3	-	1	4
6	Pembroke	1011·4	+2	SW'S	2	c	61	95	8	2	8	-	4-6	7-8	2500	0	2
7	Holyhead	1010·8	+2	SSW	3	bc	61	85	8	5	3	-	2-3	2-3	800	0	1
	Chester (Sealand)	1011·3	+10	WNW	2	c	64	75	8	5	-	-	9	9	2500	0	*
8	L'pool (Bidston)	1011·1	0	N'W	2	c	62	75	9	5	-	-	7-8	7-8	4000	0	*
9	Harrogate	1010·2	+6	S'W	2	b	69	55	8	2	4	9	In	1	4000	1	*
10	Spurn Head	1010·1	0	E'S	2	c	60	85	6	4	3	9	4-6	9+	4000	0	3
	Tynemouth	1010·8	+10	NE	1	o	54	95	7	6	-	-	10	10	1500	1	2
11	Inchkeith	1011·0	+4	E	1	id	50	95	6	6	-	-	10	10	1500	1	1
12	Leuchars	1011·3	+6	SE	2	c	55	75	8	7	6	1	4-6	7-8	2500	1	*
	Renfrew	1011·3	+6	NE	1	id.	53	95	4	5	-	-	10	10	450	1	*
	Eskdalemuir	1010·8	+6	W	1	id.	57	85	6	5	2	-	7-8	10	800	1	*
13A	Tiree	1010·0	+8	N'E	2	bc	56	85	8	5	7	-	2-3	4-6	2500	0	2
13B	Stornoway	1011·5	+2	N'E	4	bc	52	75	8	7	6	-	2-3	4-6	2500	0	2
15	Dalwhinnie	1010·1	+4	E	1	c	60	75	8	4	-	-	7-8	7-8	2500	0	*
	Aberdeen	1010·5	+8	NNE	2	c	55	65	8	5	-	-	9	9	1500	0	1
	Wick	1010·9	+4	N	2	c	51	75	8	5	2	-	7-8	10	1500	0	2
16	Lerwick	1010·0	+8	N'W	2	c	51	75	8	5	2	-	4-6	9+	1500	0	*
17	Blacksod Point	1010·8	+2	N	2	bc	60	75	9	5	8	-	2-3	4-6	450	0	2
18	Malin Head	1010·3	+2	WNW	2	c	57 95	75	7	5	9	-	4-6	9	1500	0	1
	Aldergrove	1009·9	+6	N	1	bc	64	75	8	8	3	-	1	2-3	2500	1	*
	Donaghadee	1010·3	+4	N'E	1	bc	60	85	7	7	3	-	4-6	4-6	2500	0	0
19	Birr Castle	1009·5	+2	S	1	pr	67	65	7	9	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1011·4	+4	SW	3	bc	63	75	8	8	4	-	2-3	4-6	2500	0	1
	Roches Point	1010·0	+6	SW	2	bc	63	75	9	3	-	-	2-3	2-3	1500	0	3

PAST 24 HOURS.

Stations. (For heights see p. 4.)	Weather. 7h.–13h. 10th. (37)	Weather. 13h.–18h. 10th. (38)	Weather. 18h. 10th. – 1h. 11th. (39)	Weather. 1h.–7h. 11th. (40)
London (Kew)	cpr.	cpr. cbc	bc bc	c
Croydon	cr. pr. d.	cpr. bcy	bcw	bcc ⊕
S. Farnborough	ocd. d	bc	bcc bc	bcc
Winchester	cd. rmbc	bc	c	c
Boscombe Down	cid.	c	cir.	c
Calshot, S'thmtn	d d c	bcid. q	cb	bbc
Dungeness	d	bc	*	bc
Lympne	cod. d. m	od. d. bc	bcobc	bcc bc
Shoeburyness	cbc	cbc	bc	bcc
Felixstowe	cd. cy	bcycjpbc	cd. bc	bc
Gorleston	cpr.	cpr.	bc	bc
Cranwell	bz. yc	cbc	bcb m.	bbcm
Cardington	*	*	*	bwc
Birmingham	bcc	bccpr.	c b c	bcc
Upper Heyford	cjpr	cRRc	bc	bcwc
Leafield	cir.	cbcPbc	d. c	cr.
Ross-on-Wye	cd. cbcc	rcbc	bc	bcc
Portland Bill	d d c	d. d c	bcc	c
Plymouth	obcid.	bcoid.	od. bc	bcwc
Falmouth	bcPq	bccpq	cqbed.	cid. bc
Scilly (St. Mary's)	irimc	cid. dmbc	cbc	bccrr
Guernsey	ormbc	bc	bcbw	bcwc
Pembroke	cbcc	cbcc	cir. q	cir. bc
Holyhead	bcb	b	bcw	com.
Chester (Sealand)	bcc	c	pr. c	bcwm.
L'pool (Bidston)	bobco	bcco	ccbcw	bcW
Harrogate	cbc	bcb	b	b
Spurn Head	bc	bc	bc	coF
Tynemouth	od. d.	oid. o	o	off
Inchkeith	dd Fo	d d o	i d o f	d fir o
Leuchars	oid. c	cbcc	co	odd
Renfrew	cod. d.	oid. m	oid. om	oin dm
Eskdalemuir	cid. m, c	cid.	em.	cm. c
Tiree	cbc	bc	c	cw
Stornoway	c	bc	bc	bc
Dalwhinnie	bc	c	bc	bc
Aberdeen	bc	b		c
Wick	c	cbcc	c	c
Lerwick	c	c	c	c
Blacksod Point	co	oc	co	c
Malin Head	c	bc	bc	c
Aldergrove	cm. cidc	ce	cir.	cbc
Donaghadee	bccbc	bcb	bbc	bcw
Birr Castle	c	cbc	c	coff
Valentia Obsy.	bcy	cp.	Pcp	cpbc
Roches Point	cbcd	cbc	bccprc	cprbc
	cbcu	bcu	bcvcw	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.
f, fog, visibility 220–1100 yds.
F, thick fog, ,, less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
g, gloom.
m, mist, visibility 1100-2200 yds.
h, hail.
i, intermittent.
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).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

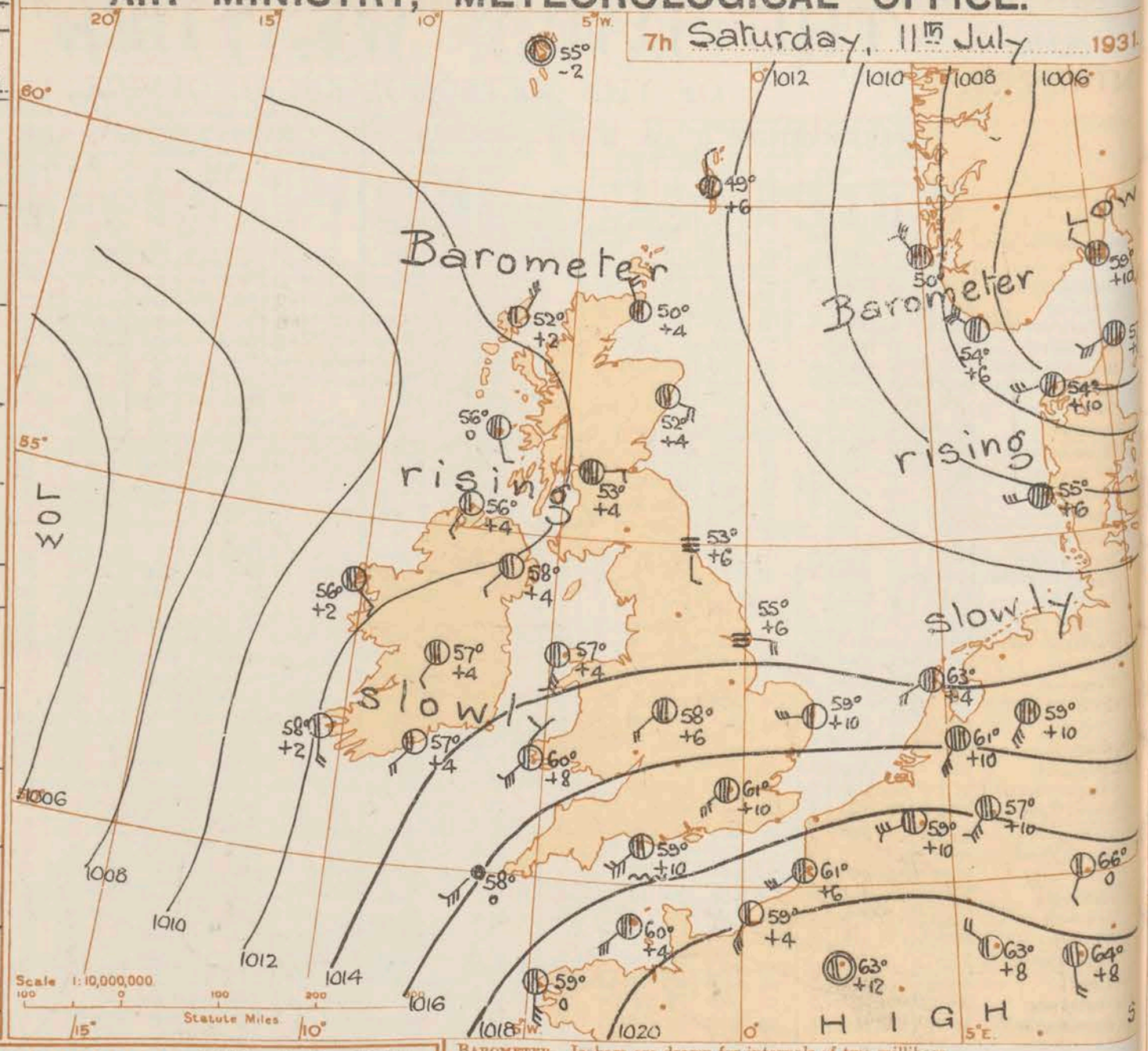
REPORTS from HEALTH RESORTS for 10th July 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 9th to 9h. 10th.	Temperature. Max. 9h.—17h. 10th.	Rainfall. Night. 17h. 9th to 9h. 10th.	Rainfall. Day. 9h.—17h. 10th.	Sunshine. Sunrise to 17h. 10th.	Sunshine. Sunrise to Sunset. 9th.
1	Tunbridge W.	cod	odocb	56	67	Tr.	0.5	3.1	14.7
	Bournemouth	o	bc	57	68	0.5	-	4.0	3.0
	Ventnor ...	dorfc	bc	56	62	0.5	1	1.4	3.0
	Southsea ...	op	bcc	57	68	1	0.6	3.7	6.6
	Bognor Regis	bcoid	bcbbc	57	61	0.3	1	3.9	8.4
	Littlehampton	cr.cr	crbc	57	64	0.5	2	4.4	9.5
	Worthing ...	codr.	r.cbc	60	65	Tr.	2	4.2	8.3
	Brighton ...	bcrc	bc	59	65	-	0.5	3.5	8.6
	Eastbourne†	cod.d	dr.cbc	57	64	0.3	3	3.6	9.1
	Hastings† ...	bccod	dmbcb	58	65	0.4	1	3.4	9.0
	Folkestone ...	ocbcc	odcbc	58	67	-	Tr.	3.4	14.7
	Dover... ...	cbcr.o	or.bc	59	63	Tr.	0.2	2.5	13.7
	Deal	bcoc	od.bc	57	67	-	Tr.	4.0	14.9
	Ramsgate ...	bcc	cbc	56	67	-	-	5.3	14.7
	Margate ...	bc	cpbc	55	69	-	Tr.	6.6	14.3
2	Southend ...	bcc	opcbc	57	69	-	0.4	5.2	10.8
	Maldon ...	bccb	bcc	51	71	-	-	4.0	8.3
	Clacton-on-Sea	bcbc	bccbc	58	69	-	-	6.0	7.0
	Dovercourt ...								
	Lowestoft ...	cidoc	bcprc	53	69	Tr.	0.4	4.5	0.0
	Skegness ...	b	bccb	55	72	-	-	8.9	0.0
	Mablethorpe	bc	bc	59	74	Tr.	-	9.2	0.5
	Cleethorpes ...	b	bc	53	74	0.2	-	7.6	1.8
3	Leamington S.	opr	oprc	55	69	0.2	0.3	2.2	6.9
4	Cheltenham†	c	cbc	57	71	3	-	4.0	9.5
5	Bath	cpbc	bbc	59	71	1	0.5	5.1	7.6
	Weymouth ...	dcc	cb	57	67	0.4	Tr.	3.7	1.9
	Jersey ...	pcbc	bc	57	67	0.2	-	5.6	8.5
	Torquay ...	rdpmc	bcdpjb	55	67	2	Tr.	5.3	6.8
	Penzance ...	cidb	bcpr	56	66	3	0.5	5.0	5.2
	St. Ives ...	bccpc	pr	55	65	1	1	7.4	4.7
	Bude	cbc	bc	56	65	3	-	6.6	2.8
	Ilfracombe ...	cpcbc	bbc	57	66	1	2	8.8	4.8
6	Aberystwyth	bcemr	cmrbc	56	67	0.5	1	3.5	10.5
7	Llandudno ...	bbc	cip.c	50	68	-	Tr.	5.6	0.8
	Colwyn Bay...	b	bcbcc	53	66	-	-	6.5	0.5
	Rhyl	bbc	bc	51	667	-	-	9.5	0.0
8	Wallasey ...	b	b	52	66	Tr.	-	11.5	0.0
	Southport‖ ...	b	b	55	66	0.2	-	10.4	2.2
	Blackpool ...	cbc	bbc	57	67	0.3	-	8.7	2.6
	Morecambe ...	bbc	b	57	66	2	-	7.7	3.7
9	Ilkley... ...	bc	b	55	72	Tr.	-	8.2	0.1
10	Berwick-on-T.	or.	o	48	52	5	Tr.	0.0	4.2
11	Dunbar ...	crm.	or.m.	49	55	1	Tr.	0.0	4.0
12	Douglas ...	bccb	bc	54	65	1	-	10.6	0.6

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Saturday, 11th July 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 11th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Light southwest winds; fair; warm.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Light or moderate southwest winds; fair, apart from coastal drizzle in extreme Southwest; warm.
8. N.W. England 9. N. Midlands 10. N.E. England	Light southwest wind; fair generally; rather warm, especially inland.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Variable to light southerly winds; perhaps local drizzle at first, then improving; becoming warmer.
13. A. W. Scotld. / B. N.W. Scotland.	Variable to light or moderate southerly winds; fair at first, perhaps slight rain later; becoming warmer.
14. Mid-Scotland 15. N.E. Scotland	Variable to light southerly winds; fair generally, becoming warmer.
16. Orkneys and Shetlands. 17. N.W. Ireland	As 13.
18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Southwesterly wind, light or moderate; mainly fair, perhaps a few scattered showers; rather warm.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm, ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

An anticyclone centred over France extends over Southern England, while a depression west of Ireland is advancing very slowly northeastwards. Weather will be fair in most districts but later slight rain may set in on the extreme northwest coasts.

FURTHER OUTLOOK.

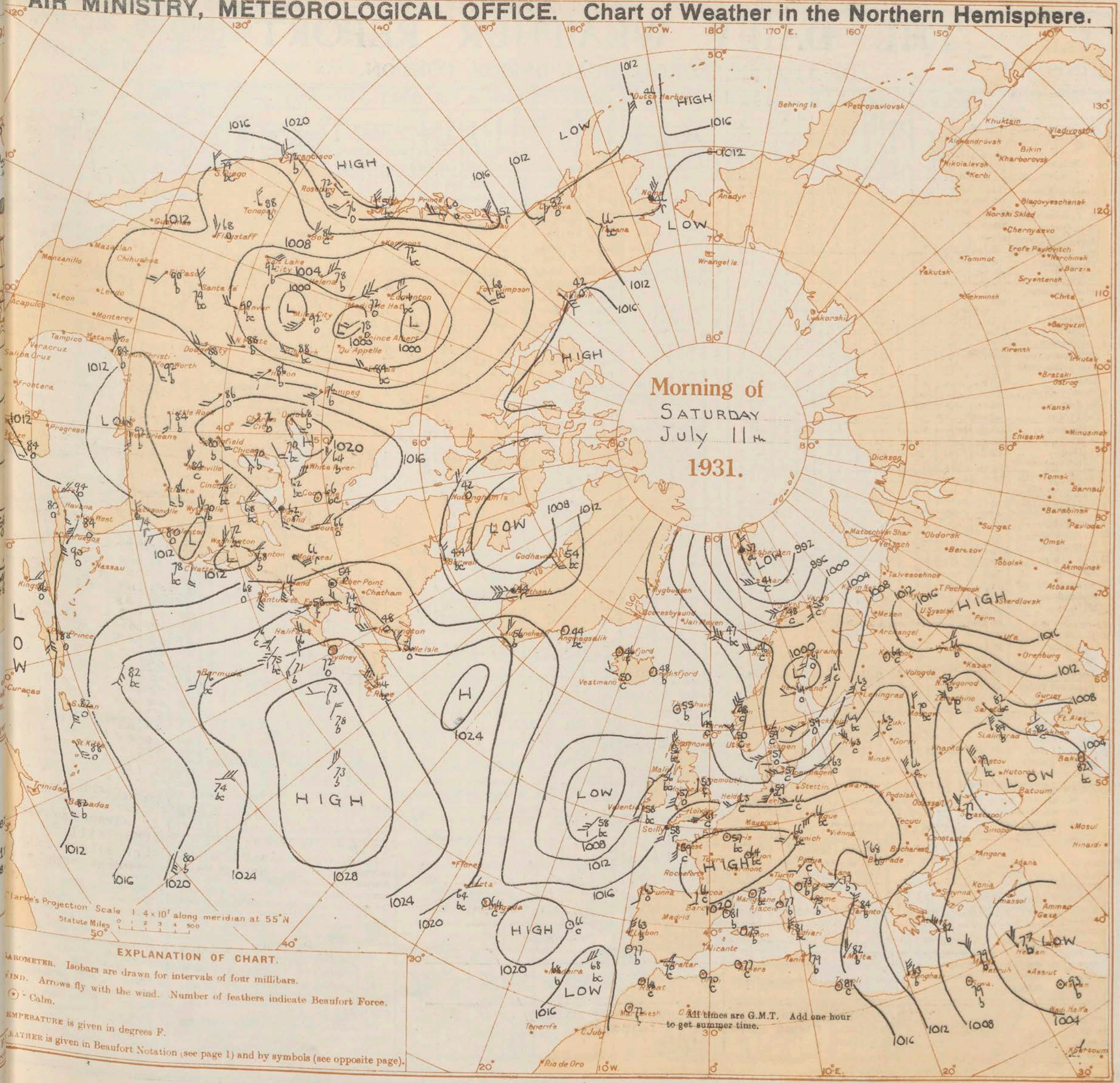
Fair in Southeast England.

Forecasts issued at 0915 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2

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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 11th July 1931.

No. 25435.

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

District.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1015.2	+6	SW'W	2	bc	58	95	7	5	-	-	2-3	2-3	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1016.0	+8	SW'W	3	b	58	85	7	5	-	-	1	1	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1015.7	+2	SW	2	c	57	95	8	5	-	-	7-8	7-8	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1012.8	+10	WSW	2	bc	60	95	7	-	7	-	0	4-6	-
	Cranwell ...	240	1012.7	+4	WSW	3	b	57	95	6	-	3	-	0	Tr.	-
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1016.1	+4	SW'W	5	c	59	85	8	4	7	-	4-6	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1017.5	+4	SW'W	3	id.	56	95	8	2	1	-	2-3	4-6	4000
	Scilly(St.Mary's)	163	1016.5	+4	W'S	3	bc	56	95	8	4	-	-	4-6	4-6	4000
	Guernsey ...	175	1018.7	+2	SW	2	bc	58	95	7	5	-	-	2-3	2-3	2500
6	Pembroke ...	142	1013.5	+6	WSW	4	q	59	85	7	8	-	-	7-8	7-8	2500
7	Holyhead ...	26	1012.0	+2	S'W	3	c	57	95	8	5	-	-	9	9	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1012.1	+2	NE'E	2	c	56	95	7	5	2	-	7-8	10	4000
	Tynemouth ...	67	1012.3	+2	S	1	o	54	95	6	6	-	-	10	10	1500
11	Inchkeith ...	190	1012.3	+6	E	2	df	51	95	2	6	-	-	10	10	<150
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1011.7	0	NE	2	bc	50	85	8	-	-	2	0	10	-
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	87	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1012.1	+4	N	2	c	49	75	8	5	2	-	7-8	10	1500
16	Lerwick ...	54	1011.1	+4	NW	1	o	48	75	8	5	-	-	10	10	1500
17	Blacksod Point	18	1011.4	+2	-	0	bc	53	95	7	7	-	-	4-6	4-6	800
18	Malin Head ...	52	1011.1	+2	W	1	c/r	55	95	7	5	7	-	4-6	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1012.8	0	S	2	bc	57	95	8	5	-	-	4-6	4-6	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District.	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1016.8	+8	SW	3	c	62	75	8	5	1	-	9+	9+	1500	0	*
	Croydon ...	1016.7	+10	WSW	3	c	61	85	8	7	3	6	4-6	9	1500	0	*
	S. Farnborough	1016.7	+18	WSW	4	c	61	85	8	1	3	6	2-3	9	1500	0	*
	Winchester ...	1017.2	+8	WSW	3	c	59	85	8	5	-	2	4-6	9+	4000	0	*
	Boscombe Down	1016.8	+8	SW	3	c	57	95	7	7	-	2	2-3	9	4000	0	*
	Calshot,(S'thmtn)	1017.2	+8	WSW	3	bc	60	85	7	5	-	1	2-3	7-8	2500	0	1
	Dungeness ...	*	*	SW	3	bc	*	*	7	4	1	*	2-3	4-6	4000	*	2
	Lympne ...	1016.4	0	SW'W	3	bc	64	75	7	8	3	1	4-6	7-8	1500	0	*
2	Shoeburyness	1016.4	+20	WSW	3	c	61	85	7	56	-	-	9	9	2500	0	*
	Felixstowe ...	1016.0	+10	WSW	3	c	61	85	7	7	3	1	2-3	4-6	4000	0	1
	Gorleston ...	1014.2	+10	SW	3	bc	59	95	7	1	6	-	2-3	4-6	4000	0	2
	Cranwell ...	1014.8	+12	WSW	3	bc	58	85	56	2	3	1	1	2-3	4000	0	*
3	Cardington ...	1015.2	+4	SW'W	4	c	61	85	8	8	-	-	9	9	1500	*	*
	Birmingham ...	1015.8	+6	SW	2	c	58	85	7	5	-	-	9	9	2500	1	*
	Upper Heyford	1016.0	+10	SW'W	3	c	59	95	7	5	-	-	7-8	7-8	800	0	*
	Leafield ...	1016.2	+8	SW	3	c	57	95	8	5	-	-	9+	9+	2500	1	*
4	Ross-on-Wye ...	1015.6	+10	SW	3	bc	60	85	7	8	-	1	2-3	2-3	4000	0	*
5	Portland Bill....	1017.3	+10	SW'W	5	c	59	95	7	4	4	-	4-6	7-8	2500	0	4
	Plymouth ...	1017.2	+6	-	0	c	58	95	7	5	-	3	7-8	9+	1500	1	0
	Falmouth ...	1017.3	+2	SW'S	3	r	57	95	7	3	2	-	2-3	10	4000	1	1
	Scilly(St.Mary's)	1015.9	.0	SW'S	4	r.r.	58	95	6	9	-	-	9	9	2500	1	2
	Guernsey ...	1019.0	+4	SW	3	c	60	85	7	5	3	-	4-6	7-8	1500	1	3
6	Pembroke ...	1015.7	+8	SW	4	bc	60	85	7	3	6	4	4-6	4-6	2500	0	3
7	Holyhead ...	1012.8	+4	S'W	4	c	57	95	6	5	-	-	10	10	450	0	1
	Chester (Sealand)	1014.0	+6	SSE	2	c	61	85	8	5	-	9	7-8	9	2500	1	*
8	L'pool (Bidston)	1014.1	+4	SSE	2	bc	60	85	8	5	8	9	1	4-6	5700	0	*
9	Harrogate ...	1013.9	+6	S'E	1	b	59	85	6	2	-	1	Tr	1	2500	1	*
10	Spurn Head ...	1013.7	+6	E	2	c	55	95	1	5	-	-	10	10	450	0	3
	Tynemouth ...	1013.8	+6	S	1	f	53	95	3	5	-	-	10	10	1500	0	1
11	Inchkeith ...	1012.2	0	E	1	o	52	95	7	5	-	-	10	10	800	1	1
	Leuchars ...	1013.6	+8	NE	2	dd	51	95	4	5	-	-	10	10	<150	1	*
12	Renfrew ...	1012.5	+4	E	1	o/d	53	95	4	5	-	-	10	10	800	1	*
	Eskdalemuir ...	1013.1	+2	SW	3	c	56	95	7	5	-	-	9+	9+	1500	1	*
13A	Tiree	1011.2	0	SSE	1	c	56	95	7	5	7	-	4-6	9	1500	1	1
13B	Stornoway ...	1012.2	+2	E	3	bc	52	85	8	4	7	-	2-3	4-6	4000	0	1
15	Dalwhinnie ...		+10	SE	1	c	50	95	6	8	-	-	10	10	450	01	*
	Aberdeen ...	1013.6	+4	SE	2	c	52	75	6	5	-	-	9+	9+	1500	0	1
	Wick	1013.3	+4	NNW	2	c	50	75	8	5	7	8	4-6	10	1500	0	3
16	Lerwick ...	1012.1	+6	N	1	c	49	75	8	5	2	-	4-6	10	1500	0	*
17	Blacksod Point	1011.9	+2	SE	2	c	56	95	9	5	7	3	4-6	7-8	800	0	2
18	Malin Head ...	1011.6	+4	SW	1	bc	56	95	7	7	8	-	2-3	2-3	2500	0	1
	Aldergrove ...	1012.1	+4	SW	1	c	58	95	6	5	7	-	4-6	9	1500	1	*
	Donaghadee ...	1012.2	+6	S	1	F	55	95	1	5	-	-	10	10	800	0	0
19	Birr Castle ...	1012.4	+4	SW	1	bc	57	95	8	1	4	-	1	2-3	2500	1	*
20	Valentia Obsy.†	1012.6	+2	S'W	2	bc	58	95	8	8	-	1	2-3	2-3	800	1	1
	Roches Point...	1013.4	+4	SW	2	bc	57	95	8	8	-	-	2-3	2-3	1500	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 10th Hrs. (36)
1	London (Kew)...	71	58	54	Tr	-	6.1
	Croydon ...	69	57	52	Tr	-	6.5
	S. Farnborough	71	55	51	Tr	-	7.6
	Winchester ...	69	55	51	1	-	5.9
	Boscombe Down	68	54	50	Tr 0.4	0.1	*
	Calshot,(S'thmtn)	66	57	54	1	-	4.0
	Dungeness ...	71	58	*	1	-	*
	Lympne ...	68	55	53	0.1	-	4.5
2	Shoeburyness	71	59	55	-	-	9.6
	Felixstowe ...	71	57	53	Tr	Tr	7.5
	Gorleston ...	69	56	53	1	-	5.0
	Cranwell ...	71	55	53	-	-	10.9
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	69	54	51	Tr	-	4.4
	Upper Heyford	69	55	52	6	-	*
	Leafield ...	67	54	46	6	Tr	5.9
4	Ross-on-Wye ...	70	56	51	1	-	6.7
5	Portland Bill....	61	57	*	0.2	-	*
	Plymouth ...	63	57	51	0.1	Tr	4.8
	Falmouth ...	63	55	*	1	Tr	10.3
	Scilly(St.Mary's)	63	53	*	0.3	0.6	7.5
	Guernsey ...	66	57	54	2.4	-	9.7
6	Pembroke ...	63	57	*	Tr	Tr	5.9
7	Holyhead ...	64	56	53	-	-	13.7
	Chester (Sealand)	69	52	49	-	Tr	6.5
8	L'pool (Bidston)	64	55	51	-	-	11.5
9	Harrogate ...	70	53	49	-	-	8.9
10	Spurn Head ...	69	54	*	-	Tr	7.1
	Tynemouth ...	54	52	52	1	-	*
11	Inchkeith ...	51	50 81	51	2	3	0.0
	Leuchars ...	57	50	51	Tr	0.5	1.2
12	Renfrew ...	58	52	51	Tr	0.3	0.0
	Eskdalemuir ...	57	52	48	0.2	-	0.0
13A	Tiree	58	48	38	*	-	7.7
13B	Stornoway ...	54	48	*	-	-	6.0
15	Dalwhinnie ...	62	47	46	-	-	8.3
	Aberdeen ...	57	50	49	Tr	-	1.5
	Wick	52	47	*	-	-	*
16	Lerwick ...	52	47	*	-	-	0.0
17	Blacksod Point	63	50	*	-	-	*
18	Malin Head ...	59	54	*	1	0.1	1.2
	Aldergrove ...	68	49	43	-	Tr	8.5
	Donaghadee ...	62	53	*	-	-	*
19	Birr Castle ...	72	53	45	Tr	6	8.2
20	Valentia Obsy.†	64	53	48	-	1	7.4
	Roches Point...	65	53	*	-	Tr	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cpr.	cpr.cbc	bcc	71	58	54	Tr	-	6.1	•	•	8
Croydon	217	cr.pr.d.	cpr.bcy	bcwbc	69	57	52	Tr	-	6.4	•	•	8
Greenwich (Royal Observatory) ...	149	c	cp.bcy	bwcpc	75	57	49	Tr	Tr	5.8	59	67	7
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	5.1	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	70	59	56	-	-	5.3	65	71	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	3.9	•	•	•
Camden Square	110	c	cpc	•	70	59	56	0.3	-	•	•	71	•
Kensington	80	bc	bcc pcbc	•	71	59	54	Tr	-	5.5	At 18h. 74	77	•
Hampstead Observatory	450	bcp	bcp	•	69	55	49	0.3	Tr	3.8	•	79	•

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 10th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 11th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1018.2	SW	5	c	70	1020.6	-	0	c	63
Brussels	1018.2	SSW	2	ir.	61	1018.6	W SW	3	c	59
Berlin	1012.9	SW'S	4	c	68	1015.1	S	2	c	63
Zürich	1019.6	NNW	2	c	70	1020.8	ESE	1	c	61
Rome	1014.6	S	2	b	81	1016.3	NNE	2	b	75

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
0.2	8hr 10th	Nil	18hr 10th to 4hr 11th

Kew Observatory.

Max.	Time.	Min.	Time.
0.1	Whole period.		

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
72	54	-	-
66	54	1	6
73	57	Tr	-
82	55	-	-
91	55	-	-

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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† hr observations are from Valentia W/T station

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 12th July 1931.

No. 25434

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

District.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1017.1	- 2	WSW	3	bc	69	55	8	1	-	1	4-6	4-6	2500
	Croydon	1017.3	0	W	4	c	70	55	8	1	-	1	4-6	7-8	2500
	S. Farnborough	1016.9	- 4	SW	3	c	73	45	8	5	-	1	9	9+	4000
	Winchester	1017.4	- 2	SW'S	3	c	68	65	8	5	1	-	7-8	9+	4000
	Boscombe Down	1017.2	- 2	SSW	3	c	68	65	8	7	-	-	9	9	2500
	Calshot, S'thmtn	1018.1	- 2	SSW	4	bc	67	68	8	5	-	1	2-3	4-6	2500
	Dungeness	*	*	SW	4	bc	*	*	7	4	1	*	2-3	4-6	2500
	Lympne	1017.3	- 2	SW	4	bc	68	65	8	2	-	4	4-6	4-6	4000
2	Shoeburyness	1017.1	0	SW	3	c	70	65	8	8	-	-	7-8	7-8	4000
	Felixstowe	1016.5	- 2	SW'S	3	c	70	55	8	7	1	1	4-6	7-8	4000
	Gorleston	1015.4	+ 2	W	3	bc	71	65	7	2	6	-	4-6	4-6	4000
	Cranwell	1015.5	0	WSW	3	c	69	65	7	8	-	1	9	9	4000
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1015.4	0	SW	2	bc	67	55	8	5	4	1	4-6	4-6	4000
	Upper Heyford	1016.7	0	SSW	3	c	69	55	8	2	-	2	4-6	7-8	2500
	Leafield	1016.4	+ 6	SW	4	bc	67	55	9	1	4	1	4-6	4-6	5700
4	Ross-on-Wye	1016.0	0	SW	3	bc	69	55	8	8	-	2	4-6	4-6	4000
5	Portland Bill	1016.8	- 2	SW	4	bc	61	85	8	4	4	1	2-3	4-6	2500
	Plymouth	1016.8	- 6	S	4	c	62	85	7	8	3	-	7-8	9+	4000
	Falmouth	1016.0	- 6	S'E	5	c	61	95	6	5	2	-	7-8	10	4000
	Scilly (St. Mary's)	1013.8	- 12	E	5	ir	61	95	6	6	-	-	10	10	2500
	Guernsey	1018.5	- 2	SE	3	bc	65	75	8	7	7	-	4-6	4-6	4000
6	Pembroke	1014.3	- 4	S	3	c	66	95	7	3	3	-	2-3	10	1500
7	Holyhead	1014.1	- 2	S'W	4	b	63	85	8	2	8	-	1	1	4000
	Chester (Sealand)	1014.3	+ 2	SW	3	c	70	55	9	7	-	1	7-8	7-8	4000
8	L'pool (Bidston)	1014.5	+ 2	W'N	3	c	65	65	9	5	-	-	9	9	4000
9	Harrogate	1014.1	0	SSW	3	c	67	68	7	8	-	-	7-8	7-8	2500
10	Spurn Head	1014.2	+ 2	E	3	F	59	95	1	5	-	-	10	10	<150
	Tynemouth	1012.9	- 4	SE	2	bc	60	85	6	2	-	-	4-6	4-6	2500
11	Inchkeith	1013.4	0	ENE	2	bc	56	95	7	5	8	-	4-6	6-6	800
12	Renfrew	1013.9	0	-	0	o/c	55	95	5	5	-	-	10	10	<150
	Eskdalemuir	1013.1	- 2	WNW	1	c	66	75	7	7	3	-	4-6	9	4000
13a	Tiree	1013.3	0	W	3	c	63	75	8	5	-	-	7-8	7-8	2500
13a	Stornoway	1011.9	0	S'W	4	c	61	75	8	7	6	-	4-6	7-8	2500
15	Dalwhinnie	1012.4	0	NE	3	bc	55	75	8	1	6	-	1	2-3	5700
	Aberdeen	1012.9	+6	S	1	c	56	85	6	8	4	-	7-8	10	450
	Wick	1013.9	+ 4	SSE	2	c	56	75	8	5	1	-	7-8	9	1500
16	Lerwick	1013.8	+4	ESE	3	bc	58	65	8	7	1	4	2-5	4-6	2500
17	Blacksod Point	1013.0	+4	S'E	3	c	53	65	8	5	-	-	9+	9+	1500
18	Malin Head	1010.9	- 2	SE	2	bc	64	75	9	2	-	-	2-3	2-3	4000
	Aldergrove	1012.2	0	NE	3	bc	59	85	8	1	4	3	2-3	4-6	2500
	Donaghadee	1012.2	- 4	S	1	bc	66	75	8	2	3	-	4-6	4-6	1500
19	Birr Castle	1012.7	+ 2	SSE	2	m	59	95	4	5	-	-	9	9	1500
20	Valentia Obsy.	1011.1	- 6	SW	1	bc	69	55	8	8	-	-	4-6	4-6	2500
	Roches Point	1012.1	- 10	SE	3	ir	59	95	7	6	-	-	10	10	800

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. C-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)
1016.8	0	SW	3	bc	74	55	8	1	-	1	2-3	2-3	2500	0	*
1016.7	- 2	SW	3	c	69	65	8	8	-	9	4-6	7-8	4000	1	*
1016.5	- 4	SW	2	bc	68	55	8	1	8	2	1	4-6	4000	0	*
1016.7	- 4	SW'S	3	bc	67	55	8	1	-	8	1	4-6	4000	0	*
1016.7	- 2	SSW	3	bc	67	65	7	7	-	2	2-3	4-6	4000	0	*
1017.5	- 4	SSW	3	bc	67	55	8	-	8	2	0	2-3	-	0	1
*	*	SW	3	c	*	*	7	-	8	*	0	7-8	-	*	2
1017.8	+ 2	SW	3	bc	63	75	8	-	-	4	0	4-6	-	0	*
1016.7	0	SW	2	bc	71	65	8	7	6	-	2-3	4-6	5700	0	*
1016.3	- 2	SW	4	bc	70	65	8	7	-	1	4-6	4-6	4000	0	1
1015.8	+4	ESE	2	bc	64	95	6	2	-	1	2-3	4-6	4000	0	1
1015.1	- 2	SWS	4	bc	68	65	8	7	-	1	1	2-3	4000	0	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1015.8	- 2	SW	2	c	66	55	8	6	5	-	4-6	7-8	4000	1	*
1016.0	- 6	S'W	3	c	67	65	8	4	3	3	2-3	7-8	4000	0	*
1015.7	- 6	S'W	3	bc	66	65	9	4	4	2	1	4-6	5700	0	*
1014.8	- 8	S'E	2	c	65	75	8	5	7	1	2-3	7-8	2500	0	*
1016.4	- 8	SSW	4	c	60	95	8	8	7	-	4-6	7-8	2500	0	3
1015.3	- 10	S	4	o	61	95	7	5	-	-	10	10	800	1	3
1014.2	- 6	S	5	rr	59	95	6	6	-	-	10	10	2500	1	3
1011.2	-16	SSW	5	o/d	60	95	5	5	-	-	10	10	1500	1	3
1016.7	-10	SE	2	c	66	75	9	5	-	-	9+	9+	2500	0	2
1011.4	- 2	S	4	rr	60	95	4	6	2	-	7-8	10	800	1	3
1012.6	-10	S'W	2	r	57	95	6	5	2	-	7-8	10	4000	1	0
1013.9	- 6	S'E	1	c	66	65	8	8	-	-	9+	9+	4000	0	*
1013.9	- 6	-	0	c/d	63	75	8	6	-	8	7-8	9+	2500	0	
1013.7	0	SSW	2	bc	68	65	8	2	-	4	1	4-6	2500	1	*
1013.9	0	SE	3	bc	60	95	6	1	3	1	4-6	4-6	4000	0	2
1013.2	+2	SE	1	bc	60	85	6	2	-	-	4-6	4-6	2500	0	2
1012.9	- 4	E	2	c	57	95	7	85	8	-	4-6	7-8	800	0	1
1013.4	- 2	ESE	1	c	57	85	6	6	3	-	2-3	7-8	2500	1	*
1012.4	- 2	S	2	c	65	75	7	8	3	-	9	9	2500	1	*
1013.1	+ 2	SW	4	bc	61	75	8	8	-	-	4-6	4-6	2500	1	*
1011.2	- 2	SW	1	c	59	85	8	5	7	-	2-3	7-8	2500	0	1
1011.9	- 8	NE	3	bc	53	85	8	4	6	-	2-3	4-6	4000	0	2
1012.4	+12	SE	1	c	60	75	8	8	-	-	7-8	7-8	2500	0	
1013.6	- 4	SSE	3	o	53	95	5	5	-	-	10	10	220	0	1
1013.5	- 2	ESE	3	bc	52	75	8	5	1	8	2-3	4-6	4000	0	3
1013.5	- 2	WN	2	c	52	65	8	5	-	-	9+	9+	1500	0	
1008.8	-16	N	2	bc	62	75	9	2	6	-	2-3	2-3	4000	0	1
1010.7	-10	ENE	3	c	57	95	7	7	9	1	2-3	9	2500	0	1
1010.5	- 6	SE	3	c	64	75	7	3	3	3	2-3	7-8	2500	1	
1011.7	- 2	SE	1	c	61	85	87	5	-	-	7-8	7-8	1500	0	0
1008.7	- 8	SE	1	pr	60	85	8	6	1	-	7-8	10	2500	1	*
1006.6	-24	ENE	3	r	58	95	6	6	2	-	9	10	1500	1	2
1007.4	-20	SE	3	ir	59	95	7	6	-	-	10	10	800	1	3

PAST 24 HOURS.

Weather. 7h.—13h. 11th (37)	Weather. 13h.—18h. 11th (38)	Weather. 18h. 11th to 1h. 12th (39)	Weather. 1h.—7h. 12th (40)
c b c y	b c y	b c	c
c b c y ⊕	b c e y	b c b	b c c
b c e v	c b c	b c	b c a
c b c c	c b c y	b c y c	c
c	c b c	b c	b c c
b c c	b e y	c b c	b c a
b c	b c	b c	b c c
b c m₀ c	c b c y	b c b	p o r c
*	*	b b c	b c c
c b c	b c	b c b	b c o
b c r₀ c y	b e y	b c	c
b c	b c	b c	b c c
b c m₀ c	c b c y	b c b	p o r c
c b c	b c	b c	b c
b c c	b e e	c c p₀	c c
c b c	b c c	p r₀ c p r	p r r p r
c r r₀ c	c o	r r₀ r c	c o r m₀
c r m₀ q	c o i r m q	o r r m q	o R m₀
r r i r	i r m₀	o r r m	o r r m c
c b c	b e c	b c c o	o c
b c c	o r r c	o r r	o r r
c m₀ b c	b, c r₀	r₀ r₀ r R	r₀ r₀ m₀
c v	b c c v y	c i r	i r
b c c v	c c v d₀	c i d d₀	d r c
b b c c	b c	b c c	c a i r
o r c i f	c f c	b c	b c a
o f f b c	b c p₀	b c o	o i r
c b c	b c i r c	c r F	F r r
o d d r m	o b c m₀	c r₀ o f d₀	o f d o r r
o m c m₀	c R b c c	P c, R.	R r m₀
c p r a c	c b c	b c	b c c r r m
c	b c c	c	c o r
b c	b c	c b c	b c c
c	b c	-	i r
b c	b c	p r c	r r
b c p₀ b c	b c	c r₀ m₀	c i r
i d₀ r r	b c c p r	c r r p r	p r i r d
o f f R e m	c l	- p o r	c r o r a c
b c y	b c r p r₀	c o i r	o i r c
b c c	p r₀ R r r₀	c r₀ i r	c i r c p₀
b c c o i r	o i r	o d d c	c b c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
ip, 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).
⊕, Solar halo. ◎, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

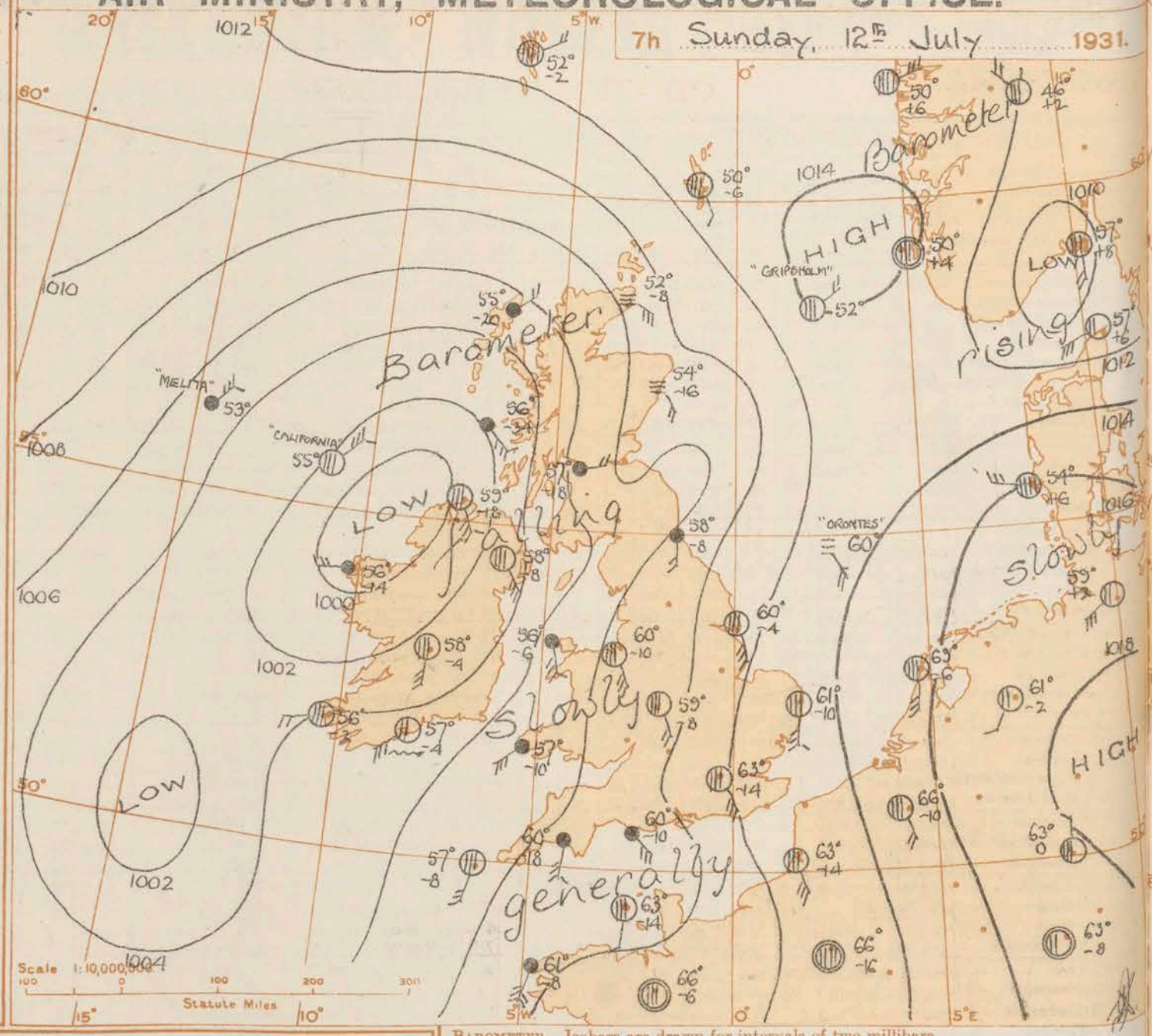
REPORTS from HEALTH RESORTS for SATURDAY, 11th JULY 1931.

DISTRICTS	STATIONS.	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 10th to 9h. 11th	TEMPERATURE. Max. 9h.—17h. 11th	RAINFALL. Night. 17h. 10th to 9h. 11th	RAINFALL. Day. 9h.—17h. 11th	SUNSHINE. Sunrise to 17h. 11th	SUNSHINE. Sunrise to Sunset. 10th
1	Tunbridge W.	cbc	bcb	56	71	~	~	8.1	4.1
	Bournemouth	cb	b	55	69	~	~	9.6	4.4
	Ventnor ...	czb	b	56	65	Tr	~	10.7	1.4
	Southsea ...	b	b	58	69	~	~	10.1	4.5
	Bognor Regis	bcb	b	58	66	~	~	11.4	4.6
	Littlehampton	bc	bc	57	64	~	~	11.5	5.4
	Worthing ...	b	b	59	66	~	~	11.0	5.5
	Brighton ...	bc	bc	58	65	~	~	10.1	4.6
	Eastbourne†	bcb	bbc	58	66	0.3	~	10.6	5.2
	Hastings† ...	bcb	b	58	68	0.3	~	10.8	4.2
	Folkestone ...	bccbc	bcb	57	69	~	~	11.4	6.9
	Dover... ...	bcb	bbc	58	65	~	~	12.1	4.3
	Deal	bcb	b	56	72	~	~	9.3	6.2
	Ramsgate ...	bc	bcb	57	73	~	~	9.1	7.5
	Margate ...	bc	bc	56	72	~	~	6.5	8.9
2	Southend ...	cbc	cbcb	57	76	~	~	8.0	6.9
	Maldon ...	bccb	bbc	53	76	~	~	7.5	4.9
	Clacton-on-Sea	cbc	bc	57	74	~	~	7.9	6.5
	Dovercourt ..								
	Lowestoft ...	b	b	54	71	~	~	9.7	5.1
	Skegness ...	obc	b	53	73	~	~	7.0	10.6
	Mablethorpe								
	Cleethorpes ...	oc	cb	55	70	~	~	5.5	7.6
3	Leamington S.	cbc	bbcc	54	71	~	~	5.5	3.3
4	Cheltenham†	cbcb	bbc	56	71	~	~	5.2	5.1
5	Bath	cbcc	cbc	58	70	1	~	8.4	5.6
	Weymouth ...	cb	bbc	57	67	~	~	8.3	4.3
	Jersey ...	bc	bcc	57	72	~	~	7.7	8.3
	Torquay ...	bccbc	oip	55	67	~	~	5.6	5.2
	Penzance ...	cir	cor	55	61	0.5	0.3	0.0	5.6
	St. Ives ...	p	p	54	64	0.3	1	0.7	7.5
	Bude ...	c	coc	54	66	~	~	1.2	6.6
	Ilfracombe ...	cdcbc	bcdc	58	68	1	0.1	2.6	9.1
6	Aberystwyth	cprbc	bccd	57	65	1	1	3.5	5.2
7	Llandudno ...	bc	c	53	67	~	~	6.9	5.7
	Colwyn Bay...	bcb	bcc	54	70	~	~	8.3	6.5
	Rhyl	bc	bbcc	53	70	~	~	8.4	9.6
8	Wallasey ...	bcb	bbcc	55	68	~	~	7.6	12.4
	Southport‖ ...	cbcc	bccc	53	68	~	~	9.5	12.0
	Blackpool ...	cbc	c	54	68	~	~	6.7	11.6
	Morecambe ...	bbc	cbbc	57	68	~	~	6.8	11.0
9	Ilkley... ...	bc	bc	49	71	~	~	8.6	9.8
10	Berwick-on-T	ocbc	orbc	50	59	1	7	5.3	0.0
11	Dunbar ...	bcmo	bcmo	50	62	1	~	3.2	0.0
12	Douglas ...	omos	cbc	54	63	~	~	4.2	13.4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Sunday, 12th July 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
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. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 12th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Wind southeast, light to moderate, veering southwest later; mainly cloudy; occasional slight rain at first; thunderstorms and more general rain later; rather warm and close to moderate temperature.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind south to southwest, light to moderate; cloudy; further rain later; perhaps local thunder; moderate temperature.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southeast to south, light to moderate; occasional rain at first; improving temporarily; perhaps local thunder later; moderate temperature.
13. A. W. Scotld. / B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind east to southeast, moderate to fresh locally; dull; rain; some improvement later; coastal fog; rather low to moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind south to variable, light to moderate; variable skies; some showers; possibly deteriorating in the South later; moderate temperature.

GENERAL INFERENCE.

A complex low pressure area covers most of the British Isles and Northern France. Weather will be unsettled generally, with further rain in most districts, but some bright periods. Thunderstorms are to be expected in the eastern half of England, they may possibly occur locally elsewhere.

FURTHER OUTLOOK.

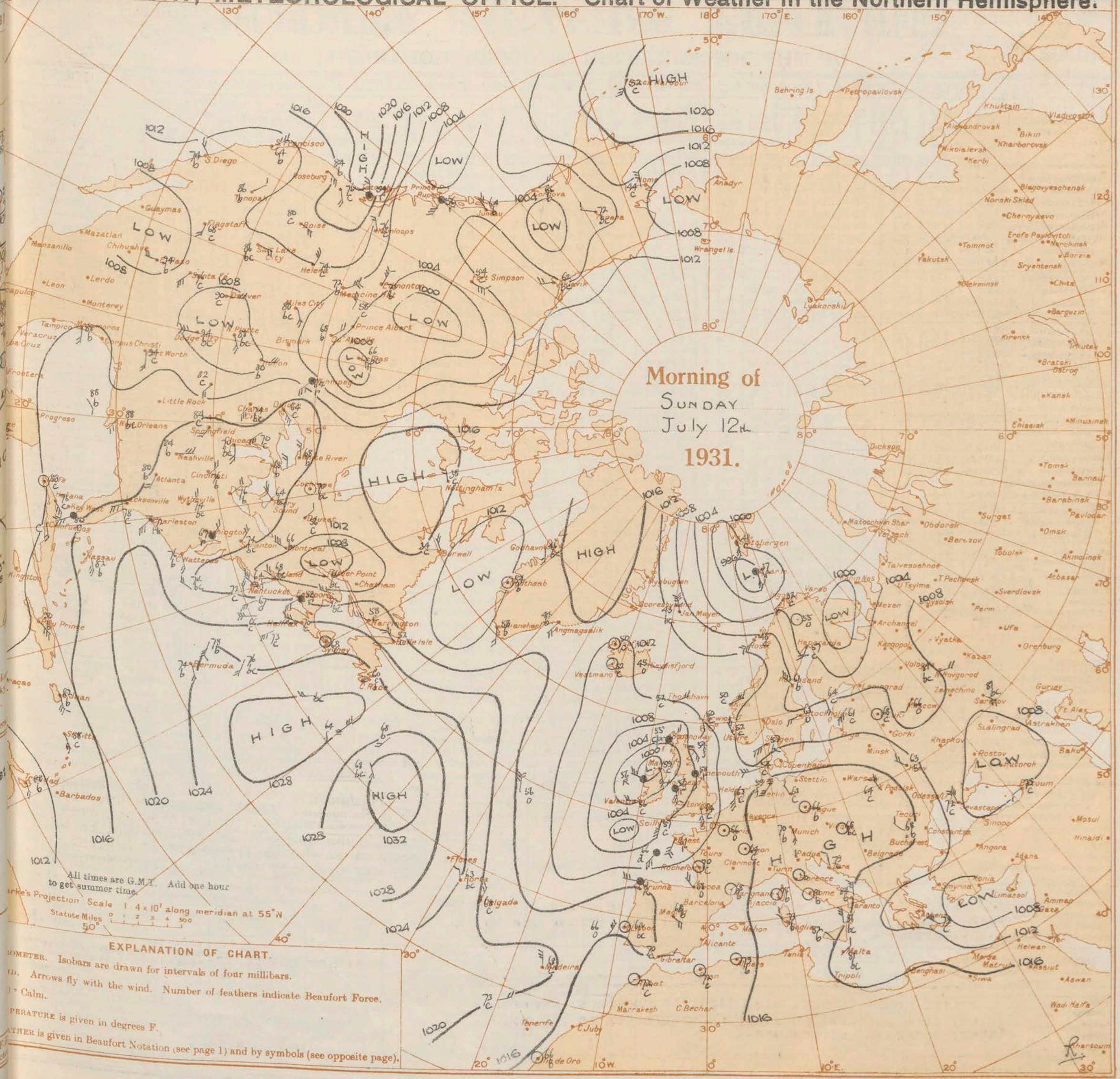
Rather unsettled.

Forecasts issued at 1000 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway W.C.2

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, 12th July 1931.

No. 25434

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1015.3	-12	S	3	bc	58	85	7	-	9	8	0	1-3	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1014.7	-14	ESE	5	bc	62	85	7	5	-	-	4-6	4-6	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1015.7	-14	SSE	2	b	55	95	8	-	5	-	0	1	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1015.4	-4	W'S	1	bc	61	85	7	-	4	-	0	1-3	-
	Cranwell ...	240	1014.2	-8	~~NE~~ SE	3	bc	58	85	7	5	3	1	1	2-3	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1012.1	-20	SE	3	pr	59	95	8	8	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1011.3	-14	S'W	5	rr	58	95	6	6	-	-	10	10	2500
	Scilly (St. Mary's)	163	1010.2	-8	SW	4	rr	56	95	5	6	-	-	10	10	1500
	Guernsey ...	175	1013.2	-18	-	0	0	61	95	8	5	-	-	10	10	2500
6	Pembroke ...	142	1009.1	-8	SW	4	rr	58	95	6	6	-	-	10	10	800
7	Holyhead ...	26	1008.8	-16	S'E	5	ir$_o$	59	95	6	6	2	-	9	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1013.3	0	S'W	2	bc$_j$p	59	95	7	1	3	-	2-3	4-6	4000
	Tynemouth ...	67	1011.7	+8	S	2	0	59	85	6	6	-	-	10	10	1500
11	Inchkeith ...	190	1011.5	-4	NE	2	F	53	95	1	5	-	-	10	10	<150
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1009.6	-8	-	0	bc	48	95	7	4	-	-	2-3	2-3	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1011.9	-8	SE	3	c	52	95	8	5	2	-	4-6	10	1500
16	Lerwick ...	54	1013.5	-2	-	0	c	49	75	8	5	2	-	4-6	10	1500
17	Blacksod Point	18	1004.1	-30	NW	3	pr	58	95	8	3	-	-	9	9	800
18	Malin Head ...	52	1005.9	-22	ENE	3	ir$_o$	57	95	7	6	1	-	2-3	10	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1005.4	-14	WSW	3	0	56	95	4	6	-	-	10	10	800
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. ·mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1011.4	-10	SSE	3	c	64	75	8	7	7	-	1	10	2500	0	*
	Croydon ...	1012.0	-14	SE'S	3	c	63	85	7	5	7	6	2-3	10	5700	0	*
	S. Farnborough	1010.4	-16	SE	2	jp	60	85	7	5	8	8	2-3	10	4000	0	*
	Winchester ...	1009.9	-20	SW	2	c	63	85	8	1	1	-	2-3	9+	4000	0	*
	Boscombe Down	1009.4	-18	SE	4	c	62	95	7	4	1	-	2-3	10	4000	0	*
	Calshot, (S'thmtn)	1010.8	-20	E'S	4	c	63	85	7	5	~~2~~3	-	4-6	10	1500	0	2
	Dungeness ...	*	*	E	2	c	*	*	7	5	1	*	7-8	9	4000	*	1
	Lympne ...	1012.6	-10	ESE	3	c	60	75	7	4	1	-	4-6	10	4000	0	*
2	Shoeburyness	1013.1	-16	SE	3	c	62	85	6	5	2	-	7-8	10	2500	0	*
	Felixstowe ...	1013.3	-10	SE	4	c	64	75	8	7	7	-	4-6	10	4000	0	3
	Gorleston ...	1013.2	-10	S	4	c	61	95	6	7	-	-	9	9	2500	0	2
	Cranwell ...	1011.4	-12	SE'S	3	c	58	85	6	5	1	-	9	10	4000	0	*
3	Cardington ...	1011.0	-12	SE'S	3	c	61	75	7	5	7	7	7-8	10	4000	*	*
	Birmingham ...	1009.8	-8	SSE	2	c	59	85	7	6	7	-	4-6	10	1500	1	*
	Upper Heyford	1010.6	-12	SE	3	c	60	85	7	5	-	-	10	10	1500	0	*
	Leafield ...	1009.9	-10	SE	4	c	58	85	9	5	2	-	7-8	10	4000	0	*
4	Ross-on-Wye ...	1008.9	-12	S	2	c	61	85	7	6	7	-	4-6	9+	4000	0	*
5	Portland Bill...	1008.8	-10	ESE	3	pr$_o$	60	95	7	6	2	-	7-8	10	1500	0	3
	Plymouth ...	1008.3	-18	S	4	r$_o$r$_o$	60	95	6	6	2	-	7-8	10	220	1	2
	Falmouth ...	1008.4	-8	-	0	RR	55	95	6	6	-	-	10	10	2500	2	0
	Scilly (St. Mary's)	1007.6	-8	S'W	3	c	57	95	7	9	6	-	4-6	7-8	2500	1	2
	Guernsey ...	1009.7	-14	S	1	c	63	85	7	8	7	-	4-6	7-8	2500	0	1
6	Pembroke ...	1006.7	-10	SW	3	r$_o$r$_o$	57	95	7	6	-	-	10	10	800	1	3
7	Holyhead ...	1007.4	-6	SSE	4	r$_o$r$_o$	56	95	6	6	-	-	10	10	450	1	2
	Chester (Sealand)	1008.1	-10	SSE	3	c	60	85	7	6	7	1	4-6	9+	1500	1	*
8	L'pool (Bidston)	1008.1	-8	SSE	4	jp	59	95	7	6	1	-	9	10	1500	1	*
9	Harrogate ...	1009.5	-10	SE	3	ir	57	95	6	6	2	-	9	10	2500	1	*
10	Spurn Head ...	1011.8	-4	S'E	3	c	60	95	6	4	2	-	4-6	9+	4000	0	2
	Tynemouth ...	1009.3	-8	S	2	r$_o$r$_o$	58	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith ...	1007.9	-14	ENE	2	rr	54	95	7	6	-	-	10	10	1500	1	2
	Leuchars ...	1008.4	-20	NE	2	rr	55	95	5	5	-	-	10	10	<150	1	*
12	Renfrew ...	1006.6	-18	E	2	rr	57	95	6	6	2	-	9	10	2500	1	*
	Eskdalemuir ...	1007.1	-16	SSE	3	rr	57	95	6	6	2	-	7-8	10	1500	1	*
13A	Tiree	1002.2	-34	SE'E	4	d$_o$d$_o$	56	95	6	6	2	-	7-8	10	800	1	2
13B	Stornoway ...	1005.6	-20	NE	2	pr	55	95	6	5	2	-	4-6	9+	1500	1	1
15	Dalwhinnie ...	1006.9	-18	E	5	iR	54	95	6	3	2	-	4-6	10	450	1	*
	Aberdeen ...	1009.3	-16	SE	2	of	54	95	3	5	-	-	10	10	<150	1	1
	Wick	1009.3	-8	ESE	3	F	52	95	1	5	-	-	10	10	<150	0	3
16	Lerwick ...	1012.5	-6	SSE	1	c	51	65	8	5	2	-	4-6	9+	1500	0	*
17	Blacksod Point	999.8	-14	W	3	RR	56	95	6	6	-	-	10	10	<150	2	3
18	Malin Head ...	1000.1	-18	SSE	4	c/r	53	95	7	6	1	-	7-8	9+	1500	1	1
	Aldergrove ...	1002.9	-8	SSE	3	c/d	58	95	7	5	1	-	9	10	800	1	*
	Donaghadee ...	1004.1	-12	SSW	3	c	57	95	7	5	-	-	9	9	1500	1	2
19	Birr Castle ...	1002.2	-4	S	3	c	58	85	8	8	-	-	7-8	7-8	1500	1	*
20	Valentia Obsy.†	1004.1	-2	W'S	2	c/pr	56	~~85~~ 95	8	8	-	-	9	9	1500	1	2
	Roches Point...	1004.8	-4	SW	3	bc	57	95	8	3	-	4	2-3	4-6	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine Hrs. (36)
1	London (Kew)...	74	58	51	-	-	8.4
	Croydon ...	73	57	53	-	-	9.9
	S. Farnborough	74	57	52	-	-	9.9
	Winchester ...	70	56	53	-	-	9.7
	Boscombe Down	70	57	53	-	-	*
	Calshot, (S'thmtn)	68	61	60	-	-	12.3
	Dungeness ...	62	56	*	-	-	*
	Lympne ...	68	54	48	-	-	13.0
2	Shoeburyness	75	53	44	-	-	8.7
	Felixstowe ...	74	54	50	Tr	-	6.3
	Gorleston ...	73	58	52	-	-	11.6
	Cranwell ...	73	56	55	-	0.2	8.8
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	69	57	56	-	-	5.0
	Upper Heyford	70	56	54	-	-	*
	Leafield ...	69	54	52	-	-	8.1
4	Ross-on-Wye ...	71	59	56	-	0.1	5.2
5	Portland Bill...	64	58	*	-	-	*
	Plymouth ...	64	60	58	Tr	Tr	1.5
	Falmouth ...	62	54	*	0.4	32	0.7
	Scilly (St. Mary's)	61	55	*	2	16	0.0
	Guernsey ...	68	60	57	-	15	9.9
6	Pembroke ...	62	55	*	4	Tr	5.0
7	Holyhead ...	64	56	55	1	12	4.7
	Chester (Sealand)	74	58	56	-	0.6	5.3
8	L'pool (Bidston)	66	57	56	Tr	1	7.2
9	Harrogate ...	69	57	56	-	2	10.9
10	Spurn Head ...	60	57	*	-	-	4.8
	Tynemouth ...	63	57	53	Tr	0.5	*
11	Inchkeith ...	59	53	50	0.3	7	3.4
	Leuchars ...	60	53	48	1	5	0.6
12	Renfrew ...	68	55	49	9	14	3.0
	Eskdalemuir ...	66	51	50	Tr	7	6.6
13A	Tiree	62	51	45	-	4	5.8
13B	Stornoway ...	56	47	*	-	XTr	9.5
15	Dalwhinnie ...	62	52	51	-	~~4~~5	2.5
	Aberdeen ...	56	5~~4~~3	53	-	0.4	0.1
	Wick	54	50	*	-	-	*
16	Lerwick ...	56	49	*	-	-	2.4
17	Blacksod Point	65	56	*	-	16	*
18	Malin Head ...	62	54	*	Tr	2	7.9
	Aldergrove ...	69	56	53	2	4	4.3
	Donaghadee ...	68	55	*	1	5	*
19	Birr Castle ...	70	56	53	0.4	2	6.5
20	Valentia Obsy.†	69	54	53	7	4	6.9
	Roches Point...	63	55	*	7	3	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cbcy	bcy	bcc	74	58	51	-	-	8.4	*	*	8
Croydon	217	cbcy ⊕	bccy	bcbbcc	73	57	53	-	-	9.9	*	*	7
Greenwich (Royal Observatory) ...	149	c ⊕ y	cy	bwcd$_o$	79	56	44	-	Tr.	6.5	51	76	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	5.7	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	72	60	54	*	-	5.8	52	70	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	76	59	54	-	=	7.2	*	71	*
Camden Square	110	c	c	*	74	59	52	-	-	7.4	At 18h. 64	75	*
Kensington	80	cbc	bc	*	71	57	44	-	Tr.	5.7	*	77	*
Hampstead Observatory	459	bc	b	*									

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.3	9h 11^{m}	NIL	12-19h 11^{m}

Kew Observatory. Max.	Time.	Min.	Time.
0.1	1h 12^{m}	<0.1	Rest of period

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 11th Sunday. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 12th Today. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1017.8	ESE	2	c	73	1012.3	-	0	c	66
Brussels	1018.2	WNW	2	c	70	1014.8	SSE	2	c	64
Berlin	1014.9	WNW	3	c	68	1017.3	NNW	1	c	63
Zürich	1019.0	N	1	bc	75					
Rome	1014.5	WSW	3	bc	86	1018.3	-	0	b	81

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
75	57	-	-
72	55	-	-
73	61	-	-
82		-	
91	61	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	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	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, Air MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

MONDAY, JULY, 13th, 1931.

No. 25,435.

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

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)	1007.6	-12	SSW	4	c	74	65	8	7	7	-	4-6	9+	5700
	Croydon	1007.8	-10	S'W	4	c	75	65	8	8	7	9	4-6	7-8	2500
	S. Farnborough	1006.8	-10	SSE	4	ir.	70	75	7	2	7	-	1	9+	2500
	Winchester	1007.1	-6	S'W	4	c	65	85	8	5	2	-	7-8	10	1500
	Boscombe Down	1007.0	-6	S'W	4	c	65	85	7	5	2	-	9	10	1500
	Calshot, S'thmtn	1008.6	-6	SSW	3	c/pr	64	85	7	8	7	-	4-6	10	2500
	Dungeness	*	*	S	3	c	*	*	7	7	7	*	4-6	7-8	4000
	Lympne	1008.8	-14	SSE	3	c	72	65	7	5	7	-	2-3	7-8	5700
2	Shoeburyness	1008.3	-20	SSE	3	c	72	75	7	5	9	-	7-8	7-8	4000
	Felixstowe	1008.8	-12	SE	5	ir.	67	75	7	7	7	-	4-6	9	4000
	Gorleston	1008.2	-20	SSE	5	c	64	95	6	5	5	-	7-8	9	2500
	Cranwell	1005.0	-32	W'S	3	TLR	67	75	7	9	3	-	9	9+	1500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1005.8	-10	SSW	2	c	62	95	6	6	2	-	7-8	10	1500
	Upper Heyford	1006.2	-28	S'W	3	c/r	68	75	6	5	-	-	10	10	800
	Leafield	1005.9	-6	S'W	3	c/r	64	95	7	6	1	-	7-8	10	1500
4	Ross-on-Wye	1005.5	-16	S	3	c	67	75	8	9	6	-	9	9+	4000
5	Portland Bill	1006.8	0	S	3	c/pr	61	95	8	8	2	-	7-8	10	1500
	Plymouth	1006.0	-6	SW	3	bc	63	85	8	9	3	-	2-3	2-3	2500
	Falmouth	1007.0	0	SW'W	4	bc	63	85	8	2	3	-	2-3	4-6	4000
	Scilly (St. Mary's)	1006.7	0	WSW	4	c	63	85	8	2	6	3	4-6	7-8	4000
	Guernsey	1008.2	-4	SSE	3	c	66	75	8	8	-	-	7-8	7-8	2500
6	Pembroke	1005.0	-8	SW	3	bc	62	85	8	8	-	-	4-6	4-6	2500
7	Holyhead	1005.5	-10	S	4	bc	62	86	8	4	3	8	2-3	2-3	1500
	Chester (Sealand)	1004.2	-20	SE'S	3	cu	66	75	8	9	-	1	9	9+	2500
8	L'pool (Bidston)	1004.0	-10	S'E	2	c/r	66	75	9	9	1	-	4-6	9	2500
9	Harrogate	1005.8	-10	SE	1	rr	60	95	4	6	2	-	9	10	<150
10	Spurn Head	1005.6	-12	SE	4	c	62	85	7	5	1	9	2-3	9+	4000
	Tynemouth	1005.7	-20	SSE	2	rr	52	95	6	6	-	-	10	10	1500
11	Inchkeith	1004.7	-10	SSW	2	c	59	85	8	8	2	-	7-8	9+	4000
	Leuchars	1004.7	-16	SSE	3	r.	62	95	6	5	1	-	4-6	10	800
12	Renfrew	1004.0	-12	S	3	ir.	60	85	7	5	2	-	9	10	1500
	Eskdalemuir	1004.4	-8	SW	4	c	59	85	7	5	-	-	9+	9+	1500
13A	Tiree	999.4	-14	SE	5	c	59	95	7	5	7	-	4-6	9	1500
13B	Stornoway	1001.7	-22	ESE	3	ir.	57	95	7	4	2	-	7-8	10	2500
15	Dalwhinnie	1002.7	+20	SE	2	r.	59	85	7	8	1	-	4-6	10	800
	Aberdeen	1005.2	-22	SSE	3	o/r	57	95	5	6	-	-	10	10	450
	Wick	1005.2	-20	SE	5	m/r	53	95	4	5	2	-	10	10	1600
16	Lerwick	1010.9	-6	SSE	3	c	54	65	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	1001.0	+20	W	3	RR	57	85	6	6	-	-	10	10	<150
18	Malin Head	996.8	-20	S'E	5	bc	65	75	8	2	8	-	4-6	4-6	2500
	Aldergrove	1000.6	-14	S'W	5	c/pr	65	65	8	8	3	-	7-8	7-8	1500
	Donaghadee	1001.5	-8	SSW	3	bc	65	75	7	7	3	2	4-6	4-6	4000
19	Birr Castle	1002.0	-4	SW	4	c	65	65	8	3	-	1	7-8	7-8	2500
20	Valentia Obsy.	1003.9	-2	SW'W	3	c	63	75	9	2	-	2	4-6	7-8	2500
	Roches Point	1003.5	-6	SW	3	bc	63	75	9	3	-	4	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. JULY, 12th

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)	1005.6	-10	SW	5	bc	74	65	9	8	8	9	2-3	4-6	4000	0	*
	Croydon	1006.3	-4	SSW	4	bc	69	75	8	2	9	1	4-6	4-6	2500	0	*
	S. Farnborough	1005.7	-10	SSW	4	c/pr	66	75	8	1	-	-	7-8	7-8	1500	0	*
	Winchester	1005.9	-10	SW	4	c	63	85	8	5	2	-	7-8	9+	450	0	*
	Boscombe Down	1006.1	-8	SSW	4	c	62	95	8	8	-	-	9	9	1500	1	*
	Calshot, S'thmtn	1008.1	-8	SW'S	4	c	63	85	8	5	-	-	7-8	7-8	800	0	2
	Dungeness	*/7	*	S'W	1	bc	*	*	7	4	3	*	4-6	4-6	4000	*	0
	Lympne	1007.5	-4	SW'S	3	bc	71	65	8	7	3	-	4-6	4-6	4000	0	*
2	Shoeburyness	1006.4	-4	SW	4	bc	71	65	8	8	8	-	1	4-6	7200	0	*
	Felixstowe	1006.1	-18	S	4	bc	68	85	8	8	3	9	2-3	4-6	4000	0	2
	Gorleston	1005.4	-10	S	5	c	66	85	6	9	5	-	4-6	7-8	2500	0	3
	Cranwell	1003.5	-12	S'W	4	pr	63	95	8	3	-	3	7-8	9	1500	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1004.3	-2	WSW	2	c	63	85	8	9	3	-	4-6	7-8	2500	1	*
	Upper Heyford	1005.3	-2	S'W	4	c/pr	64	85	7	8	-	-	7-8	7-8	1500	1	*
	Leafield	1004.6	-6	S'W	4	c/p	63	85	9	8	-	1	9	9	1500	1	*
4	Ross-on-Wye	1004.6	-6	SW	3	c	65	75	8	9	3	-	7-8	7-8	4000	1	*
5	Portland Bill	1006.4	-4	WSW	5	bc	60	85	8	3	4	-	4-6	4-6	1500	1	4
	Plymouth	1007.4	+8	WSW	5	bc	61	85	8	8	3	-	4-6	4-6	1500	1	4
	Falmouth	1007.4	0	SW'S	5	PR	59	95	8	3	3	-	4-6	7-8	2500	1	3
	Scilly (St. Mary's)	1006.2	-4	SW'W	4	c	60	85	7	2	6	1	4-6	7-8	4000	1	2
	Guernsey	1009.3	+10	SW	5	bc	63	75	8	8	-	-	4-6	4-6	1500	1	3
6	Pembroke	1004.8	-6	SW'W	3	c	60	85	8	8	7	-	4-6	9+	1500	1	2
7	Holyhead	1004.7	-2	S'W	4	cu	60	85	8	3	5	3	1	7-8	2500	1	1
	Chester (Sealand)	1003.5	-6	S	1	c	64	75	8	8	-	1	7-8	9	2500	1	*
8	L'pool (Bidston)	1003.4	-6	-	0	bc	65	75	9	3	-	9	2-3	4-6	5700	0	*
9	Harrogate	1002.6	-14	SW	2	c/tlR	59	95	6	3	8	-	7-8	9	2500	1	*
10	Spurn Head	1003.3	-4	SE'S	3	c/p	61	95	7	3	1	1	4-6	9+	4000	1	3
	Tynemouth	1002.0	-16	SSE	2	r.	57	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith	1002.3	-12	NE	2	bc	60	85	8	7	2	-	4-6	4-6	2500	0	1
	Leuchars	1002.3	-14	NE	1	c	62	95	7	8	3	8	4-6	7-8	2500	1	*
12	Renfrew	1001.8	-10	S	4	c	65	75	8	8	7	1	7-8	7-8	4000	1	*
	Eskdalemuir	1001.7	-12	WSW	4	bc	62	65	8	2	3	1	2-3	4-6	2500	1	*
13A	Tiree	999.9	-18	SE	5	c/p	57	95	7	5	2	-	7-8	9+	1500	0	3
13B	Stornoway	998.8	-16	SE	3	c	58	95	8	5	9	9	2-3	7-8	450	1	2
15	Dalwhinnie	1000.5	-12	SSE	2	bc	62	65	8	4	-	-	4-6	4-6	1500	1	
	Aberdeen	1003.0	-20	SSE	3	o/r	55	95	6	6	-	-	10	10	450	1	1
	Wick	1001.4	-24	ESE	5	rr	53	95	6	6	2	-	4-6	10	1500	1	4
16	Lerwick	1007.5	-20	SSE	4	r.	51	95	6	6	-	-	10	10	800	1	*
17	Blacksod Point	1001.8	0	W	3	c	57	85	9	5	8	-	1	7-8	220	0	2
18	Malin Head	998.5	+28	WSW	5	c/d	55	95	7	6	1	-	7-8	10	1600	1	3
	Aldergrove	1000.9	+2	SW'W	3	c	62	65	9	7	4	6	1	7-8	2500	1	*
	Donaghadee	1000.8	-4	SSW	2	c	63	85	7	5	-	-	9	9	1500	1	1
19	Birr Castle	1001.8	0	W	1	c	62	65	8	3	-	7	2-3	9	2500	1	*
20	Valentia Obsy.	1004.0	0	W'S	3	bc	60	85	9	2	-	5	2-3	4-6	2600	1	2
	Roches Point	1003.3	-6	W	3	bc	62	75	8	3	-	4	2-3	4-6	1500	0	3

PAST 24 HOURS.

District	Stations.	Weather. 7h.–13h. 12th (37)	Weather. 13h.–18h. 12th (38)	Weather. 18h. 12th to 1h. 13th (39)	Weather. 1h.–7h. 13th (40)
1	London (Kew)	cr.bcc	cbcv	bcv	bcvcp.bc
	Croydon	cr.c	cbc	bbc	bc
	S. Farnborough	c	cp.	cbc	bcwcp.
	Winchester	ctpRprc	cpr.c	cbcc	cpr.c
	Boscombe Down	ctrpr	cr.rrc	cr.m.	cprd.
	Calshot, S'thmtn	cp.r	cp.rq	cqc	cpor
	Dungeness	bc	bc	*	bc
	Lympne	crc	bc	cbc	bbc
2	Shoeburyness	oc	cbc	bc	bc
	Felixstowe	cr.	bcprt	bcb	bbc
	Gorleston	cq	cp.rq	cprbc	bcq
	Cranwell	r. tl	TLR	iRq.tl	cr. bc
3	Cardington	*	*	*	b.c
	Birmingham	tR rrc	bctRc	tlRc	wf r.
	Upper Heyford	cirtm.	cprbc	cprc	bcwm.
	Leafield	ciR	cR	cpbcc	cir.
4	Ross-on-Wye	r.iRc	cp.c	ccd.	cpc
5	Portland Bill	pr cpr	ddRcbc	cbc	bcc
	Plymouth	cr.dmbc	bc	cpr	bccpr
	Falmouth	oRmbc	bcp.q	cP	cPbc
	Scilly (St. Mary's)	cid.c	cp	cpbc	bccp.
	Guernsey	bccpr	oPRq	bcbw	bccpr
6	Pembroke	cr.bc	bcpc	p.Rbc	bcpov
7	Holyhead	ir.bc	bc	c	c
	Chester (Sealand)	r.rc	kqrtc	cjpl	bcw
8	L'pool (Bidston)	ddir.	vrrbc	bvbcv	bwbc
9	Harrogate	mrriR	tLR	cirtz	cbc
10	Spurn Head	oirc	c	cir.	c
	Tynemouth	orrir	oir	cpr	c
11	Inchkeith	r	r b	x	c
	Leuchars	ffforrm	orrm.	or.m.ff	ffrcbc
12	Renfrew	Ffrrmmo	cm.rr	m.Ff	Ff
	Eskdalemuir	c	or.r.m.	orrm.	orrm.
13A	Tiree	rr	c	prc	prc
13B	Stornoway	cbc	bcc	cbc	bcr.bc
15	Dalwhinnie	cpr.	cprbc	bc	bcw
	Aberdeen	cbc	bcPRc	cbc	bc
	Wick	cp.c	cp.c	c	c
16	Lerwick	c	c'bc	bccbc	circpc
17	Blacksod Point	p.bcv	bc	bccgw	cgwbc
18	Malin Head	tR rrc	bctRc	tlRc	wf r.
	Aldergrove	cirtm.	cprbc	cprc	bcwm.
	Leafield	ciR	cR	cpbcc	cir.
19	Birr Castle	r.iRc	cp.c	ccd.	cpc
20	Valentia Obsy.	cp.c	cp.c	c	c
	Roches Point	c	c'bc	bccbc	circpc

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.
f_s, fog over sea (coast station).
f_g, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ☾, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

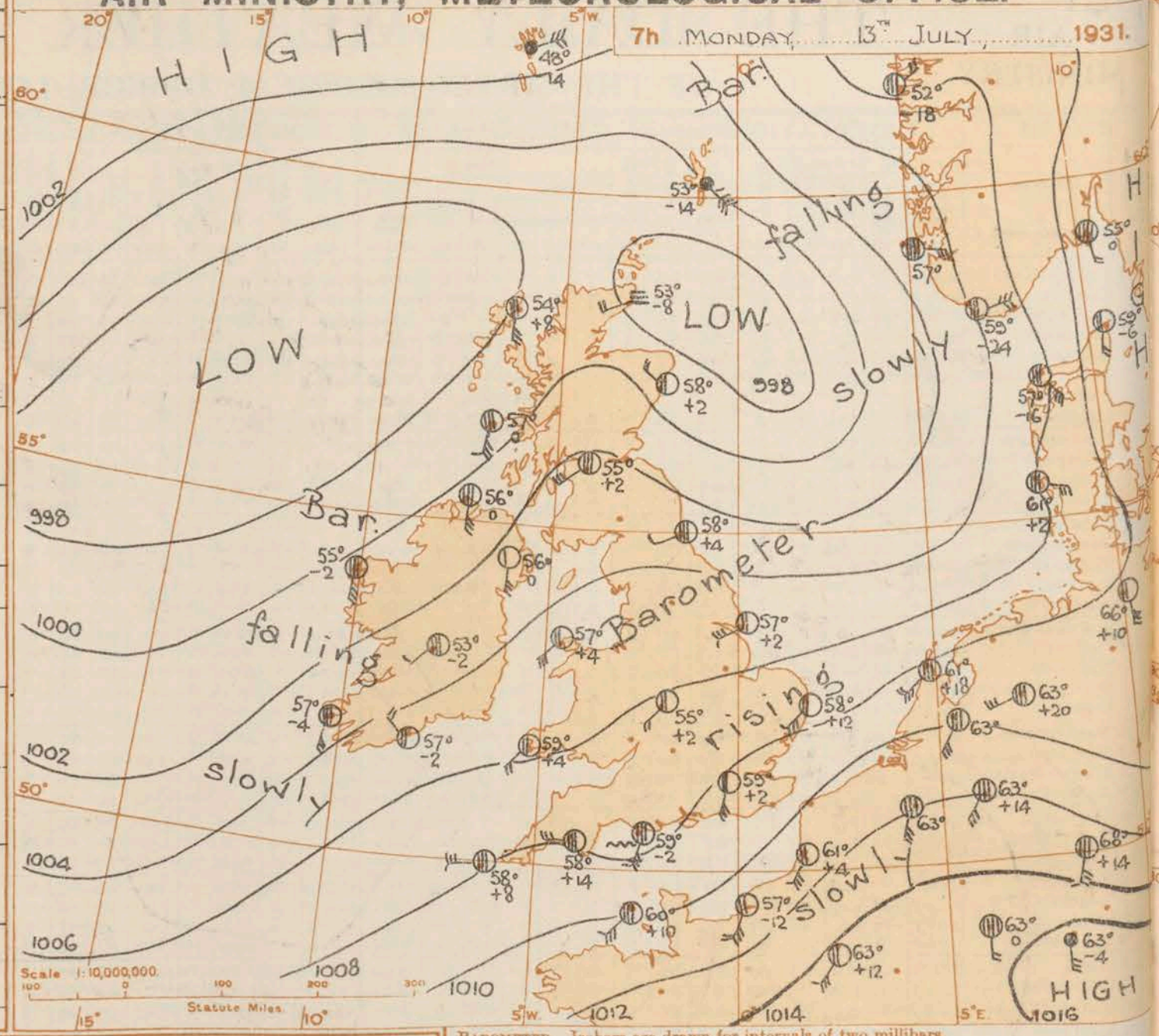
REPORTS from HEALTH RESORTS for JULY, 12th 1931.

District.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 11th to 9h. 12th	Temperature. Max. 9h.—17h. 12th	Rainfall. Night, 17h. 11th to 9h. 12th	Rainfall. Day. 9h.—17h. 12th	Sunshine. Sunrise to 17h. 12th	Sunshine. Sunrise to Sunset. 12th
1	Tunbridge W.	cbc	bbc	53	77	Trace	-	5.5	10.6
	Bournemouth	oco	odco	58	69	0.5	0.3	0.8	11.2
	Ventnor ...	obco	pbpcf	58	71	-	0.3	2.8	12.9
	Southsea ...	co	op₀bc	58	70	-	Trace	2.4	12.5
	Bognor Regis	bcir	cbc	60	67	Trace	Trace	3.4	13.7
	Littlehampton	cbc	bc	58	66	-	-	3.0	14.0
	Worthing ...	c	cbc	58	67	0.3	-	3.0	13.7
	Brighton ...	cbc	cbbc	58	67	Trace	-	3.4	12.6
	Eastbourne†	oqc	cbbc	56	70	0.1	-	3.6	12.9
	Hastings† ...	op₀c	bcb	56	69	-	0.2	4.2	13.1
	Folkestone ...	cor₀c	cbcb	52	77	-	0.2	5.2	13.8
	Dover... ...	cir	cbbc	55	73	-	0.2	5.5	14.3
	Deal	coc	b	54	78	-	-	5.3	11.7
	Ramsgate ...	cpbc	bcb	58	75	-	0.2	4.7	11.3
	Margate ...	c	bc	56	79	-	Trace	5.1	8.8
2	Southend ...	or₀	ocbc	58	75	Trace	Trace	2.7	9.6
	Maldon ...	doc	bcpcb	50	79	Trace	2	2.4	8.3
	Clacton-on-Sea	c	cbcpt	59	69	-	Trace	2.6	9.3
	Dovercourt ..								
	Lowestoft ...	idbcc	cdbcc	56	66	Trace	Trace	2.3	11.9
	Skegness ...	ocm.	obctR	60	73	-	32	2.5	4.6
	Mablethorpe								
	Cleethorpes...	ocv	otlR	55	69	-	14	0.1	7.7
3	Leamington S	ortl	cbc	58	70	1	14	3.0	6.2
4	Cheltenham†	orro	ocip	58	68	7	14	1.1	5.8
5	Bath	Rc	Pcbc	60	68	7	6	0.7	2.0
	Weymouth ...	or	rrcb	59	65	0.5	6	1.4	8.3
	Jersey ...	cpc	cpbc	60	69	Trace	Trace	2.8	7.9
	Torquay ...	rpc3₀	ordbc	59	68	3	Trace	3.7	4.9
	Penzance ...	cb	bcirb	55	65	29	3	7.0	0.0
	St. Ives ...								
	Bude	r	ocbc	55	66	15	4	3.6	1.2
	Ilfracombe ...	op	pcbcp	57	65	4	3	3.2	2.6
6	Aberystwyth	crr	cirbc	57	64	17	2	2.2	3.5
7	Llandudno ...	c	cpcbc	57	68	8	0.1	3.1	6.9
	Colwyn Bay...	rro	robcb	58	68	7	Trace	2.6	8.3
	Rhyl	r.c	cprbc	58	61	2	0.3	2.1	8.4
8	Wallasey ...	oir	oirbc	58	66	1	1	0.6	7.6
	Southport‖ ...	opo	oRorcb	57	66	7	7	0.8	9.7
	Blackpool ...	orc	cp	58	66	8	1	0.7	7.1
	Morecambe ...	rrcbc	brrcr	59	64	8	6	0.4	7.5
9	Ilkley... ...	ror	otlr	58	65	4	12	0.0	10.0
10	Berwick-on-T.	ocPR	cPRm	53	61	9	2	0.1	6.3
11	Dunbar ...	cd.m₀	cpm₀	52	65	2	0.3	0.6	3.3
12	Douglas ...	cmidc	cbbccb	54	61	15	0.3	4.1	4.4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h MONDAY, 13TH JULY, 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, -⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○Clear sky. ◔Sky less than 1/10 clouded. ◑Sky 1/10 to 5/10 clouded. ◕Sky 7/10 to 9/10 clouded. ●Overcast sky.
●Rain falling. ✱Snow. ▲Hail. ≡Fog. ≡°Mist. ⊤Thunder. ⊼Thunderstorm.
SEA DISTURBANCE. ⌒Rough. ≈High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 13th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W Scotld. B. N.W Scotland 14. Mid-Scotland 15. N.E. Scotland	Moderate southwest wind; showers and local thunder but bright intervals; moderate temperature.
16. Orkneys and Shetlands.	Variable winds, finally westerly, fresh locally; some rain and fog at first, improving later; moderate temperature
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate southwest to south wind, backing; showers at first, rain later; moderate temperature.

GENERAL INFERENCE.

A depression is centred off the Hebrides and small secondaries are crossing the British Isles. Weather will be showery with local thunder but some bright intervals. A new secondary disturbance on the Atlantic will deepen and move eastward, and weather will be unsettled for some days.

FURTHER OUTLOOK.

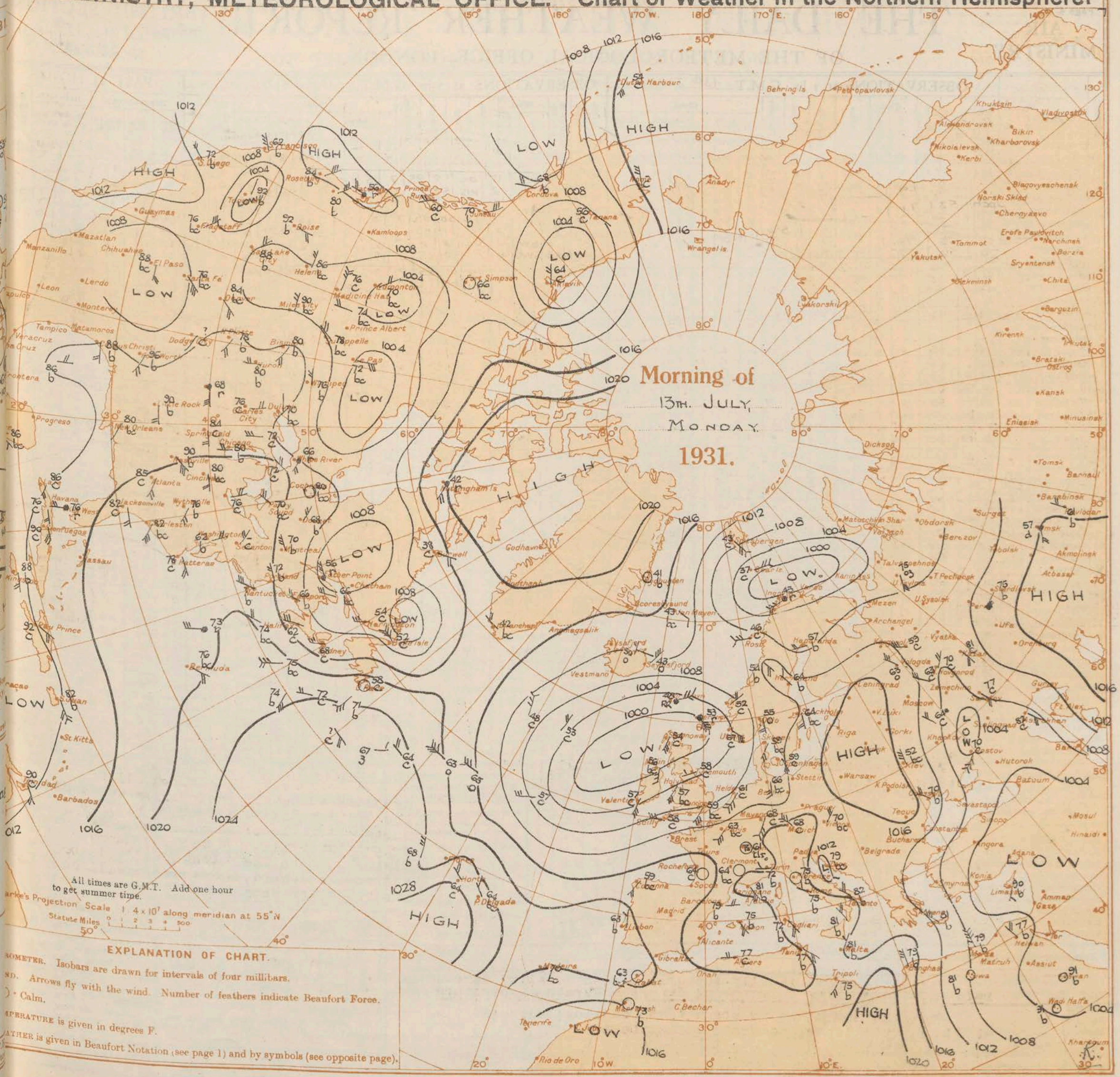
Unsettled.

Forecasts issued at 0905 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2

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



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

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

○ Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

MONDAY, JULY, 13th, 1931.

No. 25,435

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

Distrct.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1008.2	+4	SSW	3	bc	57	85	7	4	-	-	2-3	2-3	4000
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1008.8	+8	SW'S	5	bc	60	85	7	5	-	-	4-6	4-6	800
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1009.2	+6	WSW	3	b	54	95	8	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1005.3	+4	WSW	4	bc	61	95	8	4	-	-	2-3	2-3	2500
	Cranwell ...	240	1005.1	+8	SW'W	3	~~+0.05~~	55	95	7	6	-	1	7-8	9	2500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1007.8	0	SW	5	bc	59	85	8	2	7	-	2-3	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1007.7	+2	SW	3	PR	56	95	,	5	2	-	4-6	10	4000
	Scilly (St. Mary's)	163	1005.6	-10	NW	6	bc	56	95	7	3	-	-	4-6	4-6	2500
	Guernsey ...	175	1010.2	-4	SSW	3	b	57	95	8	-	-	-	0	0	-
6	Pembroke ...	142	1005.1	+2	SW'W	2	bc	57	85	8	-	4	-	0	2-3	-
7	Holyhead ...	26	1004.7	0	SW'S	4	c	55	95	7	5	-	-	7-8	7-8	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1003.1	0	SW'W	4	l	55	95	7	3	1	-	2-3	7-8	4000
	Tynemouth ...	87	1001.5	-2	W	2	c	55	95	6	6	-	-	7-8	7-8	1500
11	Inchkeith ...	190	1001.5	-4	WSW	2	bc	54	95	8	5	8	-	2-3	2-3	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	997.4	-10	S	4	c	53	95	7	9	-	-	7-8	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	999.5	-12	SE	3	F	52	95	1	5	-	-	10	10	<150
16	Lerwick ...	54	1003.5	-10	SE	6	rr	52	95	6	6	-	-	10	10	800
17	Blacksod Point	18	1001.2	-4	W	3	bc	55	95	7	8	-	-	4-6	4-6	800
18	Malin Head ...	52	1000.6	+2	S	2	bc	53	95	8	8	-	9	2-3	2-3	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1004.5	-6	SW	2	c	57	85	8	5	-	-	9+	9+	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Distrct.	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1008.2	+4	SW'S	3	bc	62	75	8	7	4	-	4-6	4-6	1500	0	*
	Croydon ...	1008.3	+2	SSW	3	bc	59	85	7	5	-	-	1	4-6	800	0	*
	S. Farnborough	1007.8	-2	S	2	pr.	59	85	7	9	-	-	9+	9+	1500	1	*
	Winchester ...	1007.4	-2	SSW	4	c/pr	57	95	7	5	2	-	9	10	450	1	*
	Boscombe Down	1007.4	+4	SSW	5	c/d	58	95	7	5	-	-	9+	9+	450	1	*
	Calshot, (S'thmtn)	1008.4	-2	S'W	5	c	60	85	7	5	3	-	7-8	9+	800	1	3
	Dungeness ...	*	*	SW	4	bc	*	*	7	8	4	*	4-6	4-6	2500	*	2
	Lympne ...	1009.6	+2	SW'S	4	c	58	85	8	7	-	-	9	9	1500	0	*
2	Shoeburyness	1009.1	+6	SW	4	bc	61	85	7	4	6	1	4-6	4-6	1500	0	*
	Felixstowe ...	1008.8	+8	SW'W	4	c	61	75	8	7	-	9	7-8	7-8	2500	0	2
	Gorleston ...	1007.6	+12	SW'W	4	bc	58	85	7	2	-	-	4-6	4-6	4000	0	3
	Cranwell ...	1006.1	~~+0.06~~ +16	SW	4	bc	57	85	6	1	3	-	.1	4-6	2500	1	*
3	Cardington ...	1006.8	+6	SW'S	4	c	60	75	8	8	3	-	7-8	9	2500	*	*
	Birmingham ...	1006.2	+2	SW	2	bc	55	95	8	6	3	-	2-3	4-6	1500	1	*
	Upper Heyford	1007.2	0	S'W	3	o	57	95	6	5	-	-	10	10	800	1	*
	Leafield ...	1006.5	0	S'W	3	jp	56	95	8	6	3	-	9	9+	800	1	*
4	Ross-on-Wye ...	1006.2	+4	SW'W	2	c	58	85	7	2	-	9	7-8	7-8	4000	1	*
5	Portland Bill...	1006.7	-2	SSW	5	c	59	85	7	8	4	-	7-8	9	2500	1	4
	Plymouth ...	1007.6	+14	W	3	c	58	85	8	9	-	5	9	9+	1500	1	3
	Falmouth ...	1008.9	+14	WSW	4	c	57	95	8	2	1	-	2-3	7-8	4000	0	2
	Scilly (St. Mary's)	1007.8	+8	W	4	c	58	85	7	2	-	6	2-3	7-8	4000	1	3
	Guernsey ...	1009.7	+10	SW	4	c	60	85	8	8	3	8	4-6	7-8	2500	1	3
6	Pembroke ...	1005.1	+4	SW	2	bc/pr	59	85	9	2	4	-	4-6	4-6	2500	1	2
7	Holyhead ...	1005.0	+4	SW	3	bc	57	95	8	8	-	1	2-3	4-6	2500	1	1
	Chester (Sealand)	1004.5	+4	SSE	2	c	59	85	7	8	-	1	7-8	7-8	2500	1	*
8	L'pool (Bidston)	1004.7	+6	S	2	bc	57	85	8	7	4	9	2-3	4-6	4000	0	*
9	Harrogate ...	1004.0	+6	S	2	bc	56	85	6	3	8	-	2-3	4-6	2500	1	*
10	Spurn Head ...	1004.6	+2	WSW	4	bc	57	95	7	4	3	-	2-3	4-6	4000	1	3
	Tynemouth ...	1002.0	+4	WSW	1	c	58	85	6	6	-	-	7-8	7-8	1500	1	2
11	Inchkeith ...	1001.7	+6	SW	3	bc	52	95	7	5	7	1	2-3	4-6	2500	0	1
	Leuchars ...	1001.3	+6	WSW	3	bc	58	85	8	7	4	x6	1	4-6	4000	1	*
12	Renfrew ...	1002.6	+2	SW	3	c	55	85	7	8	7	1	4-6	7-8	2500	1	*
	Eskdalemuir ...	1002.5	+4	W'S	3	c	54	85	8	2	-	2	4-6	7-8	1500	1	*
13A	Tiree	999.3	0	SSW	4	c	57	95	7	5	6	-	2-3	7-8	1500	1	2
13B	Stornoway ...	998.2	+8	SSW	3	c	54	85	7	4	6	-	4-6	9	1500	1	2
15	Dalwhinnie ...	1001.1	+2	SE	1	c	51	85	8	4	4	-	7-8	10	450	0	*
	Aberdeen ...	999.3	+2	NW	2	bc	58	85	8	7	3	1	1	2-3	2500	1	1
	Wick	997.7	-8	WSW	2	F-	53	95	1	5	-	-	10	10	<150	1	3
16	Lerwick ...	1000.3	-14	SE	7	rr	53	95	6	6	-	-	10	10	800	1	*
17	Blacksod Point	1000.6	-2	S	3	c	55	85	9	8	-	-	9	9	800	1	2
18	Malin Head ...	1000.1	0	S	3	bc	56	95	7	7	4	1	1	2-3	2500	0	1
	Aldergrove ...	1002.6	0	S	3	b	56	85	7	5	-	8	1	1	1500	1	*
	Donaghadee ...	1002.3	+4	WSW	1	bc	56	85	7	7	3	2	4-6	4-6	4000	0	0
19	Birr Castle ...	1002.6	-2	SW	1	c	53	95	8	5	4	1	4-6	7-8	4000	0	*
20	Valentia Obsy.†	1003.2	-4	SSW	3	c	57	95	8	8	-	1	7-8	7-8	800	1	2
	Roches Point...	1004.3	-2	NW	2	bc	57	95	8	3	-	4	2-3	4-6	1500	0	2

PAST 24 HOURS.

Distrct.	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 to 12th Hrs. (36)
1	London (Kew)...	76	56	52	Tr.	Tr.	4·9
	Croydon ...	75	56	52	Tr.	-	7·6
	S. Farnborough	74	54	49	Tr.	Tr.	5·2
	Winchester ...	69	54	52	3	Tr.	3·2
	Boscombe Down	67	53	50	7	0·2	*
	Calshot, (S'thmtn)	68	58	57	Tr.	0·1	1·2
	Dungeness ...	73	57	*	Tr.	-	*
	Lympne ...	74	53	51	0·1	-	7·8
2	Shoeburyness	80	56	52	-	-	4·6
	Felixstowe ...	71	56	53	0·2	-	3·2
	Gorleston ...	67	55	52	Tr	0·2	3·4
	Cranwell ...	70	52	50	21	7	1·7
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	68	53	51	13	6	2·8
	Upper Heyford	69	51	48	2	1	*
	Leafield ...	68	50	46	5	2	1·8
4	Ross-on-Wye ...	68	54	51	5	1	2·0
5	Portland Bill...	62	58	*	9	-	*
	Plymouth ...	64	56	54	2	3	5·9
	Falmouth ...	64	55	*	11	2	9·2
	Scilly (St. Mary's)	64	56	*	1	0·5	8·6
	Guernsey ...	69	57	54	2	2	7·2
6	Pembroke ...	63	55	*	0.2	3	3·3
7	Holyhead ...	63	54	51	0.1	-	7·4
	Chester (Sealand)	68	51	46	4	-	1·2
8	L'pool (Bidston)	66	53	50	!	-	2·1
9	Harrogate ...	65	51	46	15	2	0·3
10	Spurn Head ...	63	54	*	9	9	0·1
	Tynemouth ...	59	52	50	31	3	*
11	Inchkeith ...	65	52	49	3	-	3·9
	Leuchars ...	63	47	41	4	-	2·5
12	Renfrew ...	67	45	36	5	-	4·3
	Eskdalemuir ...	65	47	45	4	-	4·4
13A	Tiree	61	53	48	0.5	0·5	4·3
13B	Stornoway ...	59	52	*	1	0·2	2·2
15	Dalwhinnie ...	62	49	45	2	-	2·1
	Aberdeen ...	59	54	49	4	3	0·1
	Wick	53	51	*	4	0·2	*
16	Lerwick ...	55	50	*	0.6	10	2·2
17	Blacksod Point	59	52	*	23	3	*
18	Malin Head ...	66	51	*	0.1	0·1	3·9
	Aldergrove ...	66	47	37	0.2	Tr.	8·1
	Donaghadee ...	66	51	*	0·1	-	*
19	Birr Castle ...	65	49	40	Tr.	-	7·1
20	Valentia Obsy.†	64	54	50	-	3	10·3
	Roches Point...	65	51	*	Tr.	Tr.	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cr,bcc	cbcy	bcrcpbc	76	56	52	Tr.	Tr.	4·9	*	*	7
Croydon	217	cr,c	cbc	bbcbc	75	56	52	Tr.	-	7·6	*	*	7
Greenwich (Royal Observatory) ...	149	cbccy	cbcy	bwcp	81	56	47	-	1	5·8	48	85	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	5·8	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	76	58	53	1		5·6	75	87	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	6·5	*	*	*
Camden Square	110	c	c	*	79	57	53	-	0·3	*	*	89	*
Kensington	80	cbc	bc	*	78	57	50	-	0·2	5·7	At 18h. 67	94	*
Hampstead Observatory	450	bc	bc	*	76	52	44	-	0·3	6·3	*	87	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 12th JULY. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 13th JULY. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	1009·4	SW	4	c	77	1014·1	SW	4	bc	63	77	52	Tr.	-
Brussels						1012·2	SSW	3	c	63		57		-
Berlin	1014·4	W	1	c	73						77		-	
Zürich						1016·8	ENE	1	c	70		64		-
Rome	1016·3	SW	3	b	84	1017·0	WNW	1	b	75	95	59	-	-

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·3	7-10h 12th	NIL	16h 12th 5h 13th

Kew Observatory. Max.	Time.	Min.	Time.
Less than 0·1 for 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	1¼ miles.
5 Poor visibility	2½ „
6 Moderate „	6½ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 14th July, 1931.

No. 25,436.

District.	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 13th July. Barom. at M.S.L. mb. (1)	Change in 3 hours. (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)	OBSERVATIONS at 18h. G.M.T. 13th July. Barom. at M.S.L. mb. (15)	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)	PAST 24 HOURS. Weather. 7h.–13h. 13th (37)	13h.–18h. 13th (38)	18h. 13th to 1h. 14th (39)	1h.–7h. 14th (40)
1	London (Kew)	1006.9	-.6	SW	4	pr$_o$	68	65	8	4	-	1	7·8	9	2500	1007.5	0	WSW	3	c	68	55	8	4	-	6	2·3	7·8	2500	0	*	bcc pr$_o$	bcp$_o$b	bc	bc
	Croydon	1007.2	-.6	SSW	4	c	66	75	8	7	-	6	7·8	9+	1500	1007.5	-4	SW	3	c	65	65	8	1	-	6	2·3	7·8	2500	0	*	bccpr	cprbc	bc	bcpr
-	S. Farnborough	1006.9	+.2	SW$_S$	4	c/pr	67	65	8	8	8	-	9+	9+	1500	1007.8	0	SWW	4	c	63	65	8	1	-	6	2·3	9	1500	0	*	cpr	cpr$_o$c	cbc bw	bbc wc
	Winchester	1007.6	+.8	SWW	3	c/pr	59	95	8	9	-	3	7·8	9	1500	1007.9	-.4	SWW	4	c	62	75	8	8	-	8	4·6	7·8	2500	1	*	cpr$_o$ bcpr	cprbc	cbcc	cprpr
	Boscombe Down	1007.5	+.4	WSW	3	c/pr	64	65	7	8	-	-	9	9	2500	1007.7	-.2	SW	4	c	63	75	8	7	-	1	7·8	7·8	2500	1	*	cd$_o$pr	c pr$_o$c	c	cd$_o$rr
	Calshot, S'thmtn	1008.4	0	SW$_S$	5	c	66	65	8	8	-	6	2·3	7·8	2500	1008.7	-.2	SW$_S$	4	c	62	75	8	5	-	7	4·6	7·8	1500	1	2	cmpr q	bccq	cbc	bcc
	Dungeness	*	*	SW	5	q	*	*	7	7	*	*	4·6	7·8	2500	*	*	SW	4	c	*	*	7	5	7	*	4·6	7·8	4000	*	3	o	o	*	p
	Lympne	1008.9	-.6	SW$_S$	6	c	64	75	8	8	-	*	9	9	1500	1008.7	-.2	SW	4	c	62	75	8	1	-	7	7+	9+	1500	0	*	cpr$_o$dc	bccv	cbbw	bcpr$_o$o
2	Shoeburyness	1007.4	-.10	SW$_S$	4	c	69	65	8	8	7	-	4·6	7·8	4000	1007.3	+.2	SW$_S$	4	c	67	55	8	1	9	6	1	7·8	4000	0	*	bcpr$_o$	bcc	cb	bcobc
	Felixstowe	1007.5	-.10	S'W	6	bc	66	75	9	8	-	1	4·6	4·6	2500	1007.3	+.2	WSW	3	c	63	75	8	8	1	1	4·6	7·8	4000	0	3	bcpr$_o$cy	bcvr$_o$qc	c	bc
	Gorleston	1006.9	-.6	SSW	5	c	65	85	7	2	6	-	4·6	7·8	2500	1006.1	-.4	SE	1	c	61	85	6	8	-	-	9	9	2500	1	2	bcprcq	c tlrc	cbc	bcw
	Cranwell	1005.4	-.6	S	3	c	64	65	8	3	3	-	7·8	7·8	2500	1005.4	+.2	SW	3	pr	64	65	8	9	-	-	9+	9+	2500	1	*	bccbc	cbccf	cbcc	porm$_o$
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	bcc
	Birmingham	1005.4	0	WSW	3	bc	66	55	8	8	-	1	4·6	4·6	2500	1005.4	0	SW	3	c	63	65	8	9	4	-	4·6	7·8	1500	1	*	bc	bccpr	cbc	bcpr$_o$
	Upper Heyford	1006.2	-.2	S'W	2	bc/pr	65	85	8	8	1	1	4·6	4·6	2500	1006.8	+.6	SW	4	c	61	75	8	8	7	8	4·6	9	2500	1	*	PRpr	bccyjp	cp$_o$bc	bccr$_o$
	Leafield	1005.8	0	SW$_S$	4	c	65	65	9	9	-	1	9	9	1500	1006.5	+.6	SW$_S$	4	c	60	85	9	3	3	6	1	7·8	2500	1	*	cp bcc	cp$_o$	cp$_o$bc	coir$_o$
4	Ross-on-Wye	1005.8	0	SW$_S$	4	bc	68	55	8	2	-	1	4·6	4·6	4000	1005.9	0	SW	4	c	62	75	8	2	6	2	4·6	7·8	4000	1	*	bccbc	bcy	pcir	cbc
5	Portland Bill	1008.6	+.8	SW$_S$	5	c	61	85	7	8	7	2	4·6	7·8	2500	1007.8	-.6	SW	5	bc	59	85	8	2	7	2	2·3	4·6	2500	0	4	c	cbc	bcc	cp$_o$PRc$_3$o
	Plymouth	1008.4	+.4	O																															
	Falmouth	1008.2	-.4	SSW	4	c	62	85	8	3	-	3	2·3	7·8	2500	1007.6	-.8	SW	5	pr	59	85	8	9	3	3	7·8	9+	1500	1	3	cbc	bccpr	cPR	cpr
	Scilly (St. Mary's)	1007.4	-.6	SW	5	c/pr	59	95	8	3	8	7	4·6	7·8	4000	1006.9	-.8	SW	5	q	59	95	8	8	8	4	4·6	7·8	4000	1	3	bccp	cbcpq	cPbc	bcp$_o$cr
	Guernsey	1007.4	-.6	SW	4	c	64	85	7	2	-	6	4·6	7·8	4000	1005.8	-.8	SWW	5	ir$_o$	57	95	7	9	-	-	9	9	2500	1	3	cp	cp$_o$	circ$_o$	bccr
		1010.9	+.6	SW	4	o	62	75	8	5	-	-	10	10	2500	1010.4	-.4	SW	3	bc	63	75	8	1	1	8	2·3	4·6	2500	0	2	c o	cp$_o$bc	cbc	coi$_o$
6	Pembroke	1005.5	-.2	SW	4	q	62	85	8	2	8	4	4·6	7·8	2500	1004.0	-.8	SW	4	c/pr	59	95	6	8	8	-	4·6	7·8	1500	1	3	bcpc	cpq	ciRq	ciRq
7	Holyhead	1004.9	-.2	S'W	4	bc	62	85	9	1	8	2	2·3	2·3	4000	1004.3	-.6	S'W	5	v	58	95	8	8	-	3	1	4·6	2500	0	1	bccbc	bcbbc	bc	PR c
	Chester (Sealand)	1004.5	-.4	SW$_W$	3	c/jp	68	55	9	3	-	1	7·8	7·8	4000	1004.3	-.2	WSW	2	c/jp	68	55	8	8	-	6	4·6	7·8	4000	0	*	pr$_o$bc	bccvy	jpc	rac
8	L'pool (Bidston)	1004.6	0	NW	2	bc	64	75	9	7	-	8	4·6	4·6	4000	1003.9	-.2	W'S	4	bc	66	55	9	8	-	4	2·3	4·6	4000	0	*	bcvpr	ubcvy	ybcrc	cr$_o$bc
9	Harrogate	1004.3	+.6	S	1	c/pr	56	85	7	8	-	-	9+	9+	2500	1004.85	0	S	1	t	61	75	7	9	-	-	9+	9+	2500	1	*	bccP	bccpt	cbctir	cir$_o$
10	Spurn Head	1005.0	0	SW	2	bc	72	65	7	1	3	-	2·3	4·6	4000	1004.6	0	NE	3	iR	59	95	6	3	2	-	4·6	9	4000	1	2	bc	bccotr	clt rbc	bcc
	Tynemouth	1003.5	+.6	NNE	1	ir$_o$	57	85	7	6	-	-	9	9	1500	1003.2	0	SE	1	bc	59	85	7	2	-	-	2·3	2·3	2500	1	1	cptl	cir$_o$bc	bc	bcc
11	Inchkeith	1002.0	+.2	WSW	2	c	60	65	7	5	3	-	4·6	7·8	2500	1002.4	0	W	1	pr	58	85	8	9	4	-	7·8	9	1500	1	1	bcc	cpr	prc	ir$_o$
	Leuchars	1001.8	+.2	W	3	bc	66	55	7	1	-	1	2·3	2·3	2500	1001.8	-.2	SSW	3	c	65	55	8	8	3	6	2·3	7·8	4000	0	*	bc	bcyc	bcpr$_o$c	cpr$_o$bc
12	Renfrew	1002.6	-.2	SSW	3	c	65	65	8	7	-	5	7·8	7·8	2500	1002.6	+.2	SW	3	c	61	75	8	8	7	-	4·6	9+	4000	1	*	cbc	bcc	c	c, ir$_o$
	Eskdalemuir	1003.0	+.6	WSW	4	c/jp	59	85	8	3	4	3	7·8	9	2500	1002.9	0	SW	4	c	59	75	8·	2	-	2	2·3	7·8	2500	1	*	cbccjp	cprbc	bccbc	bccw
13A	Tiree	999.8	0	S'E	4	c	60	85	8	7	7	-	2·3	7·8	2500	999.9	0	SSW	4	bc	58	85	8	8	6	8	2·3	4·6	2500	1	2	cbc	crc	bc	bcw
13B	Stornoway	998.6	+.2	SSW	4	c	61	75	8	4	7	-	4·6	7·8	2500	999.1	+.2	SSW	4	c	59	75	8	7	7	-	4·6	7·8	4000	0	3	c	bc	cbc	bc
15	Dalwhinnie	1002.3	+.2	E	1	c	55	85	8	4	4	-	7·8	10	800	1000.9	0	S	1	c	56	85	8	4	6	-	7-8	10	2500	0		bc	bc cprtbc*		r
	Aberdeen	1000.6	+.4	SE	3	c	63	65	7	2	6	8	2·3	9+	2500	1001.4	+.4	ENE	2	bc	58	85	7	8	-	3	2·3	4·6	2500	1	1	bccpr	[illegible]	bc	bcw
16	Wick	999.5	+.8	SSE	2	c	56	95	8	8	1	8	4·6	7·8	1500	1001.5	+.12	SSE	2	ir	53	95	8	8	7	-	7·8	10	1500	1	2	Frrc	cprir	cbc	bcc
17	Lerwick	998.9	-.8	SSE	2	r$_o$r$_o$	54	95	5	6	-	-	10	10	450	998.7	-.4	-	0	r$_o$r$_o$	54	95	5	6	-	-	10	10	450	2	*	or$_o$r$_o$m$_o$	or$_o$r$_o$m$_o$c	or$_o$r$_o$m$_o$c	cir$_o$
18	Malin Head	1000.6	+.2	S	2	bc	58	85	9	-	5	-	0	4·6	-	1000.6	-.4	W	2	bc	60	75	9	2	4	1	2·3	4·6	800	0	1	bc	bc	bc	bc
	Aldergrove	1000.1	+.6	W	3	ir	56	95	7	9	7	-	7·8	9+	1500	1000.6	+.2	W	3	bc	58	85	8	1	8	9	1	2·3	4000	0	1	bccir	cm$_o$irbc	bcc	cod$_o$m$_o$
	Donaghadee	1001.5	-.2	S	3	pr	60	85	8	3	1	3	4·6	9	1500	1001.2	-.2	S'E	3	pr	59	85	8	9	3	3	7·8	9+	800	1	*	prPRt	prPR	cprc	ir$_o$
19	Birr Castle	1002.2	-.4	WNW	2	bc	63	75	8	5	3	-	2·3	4·6	2500	1001.6	-.6	SW	2	c	59	85	7	5	-	-	7·8	7·8	1500	0	1	bc	cpr$_o$c	c ℓ	cir$_o$
20	Valentia Obsy.	1002.0	-.4	SW	1	c/pr	55	95	8	9	-	-	9+	9+	2500	1000.2	-.8	SW	1	pr	63	75	8	3	1	-	7·8	10	2500	1	*	cpr	cpr	rrr$_o$ir	orro
	Roches Point	1003.3	-.6	S	3	c/pr	59	85	8	5	2	-	9	10	1500	1000.7	-.6	SW$_S$	3	r$_o$r$_o$	57	95	7	5	-	-	9+	9+	800	1	2	cpr$_o$c	cirr$_o$	r$_o$ir	cpoc
		1003.1	-.4	SW	3	bc	61	85	9	3	3	4	2·3	4·6	1500	1001.4	-.8	SW	3	ir	57	95	7	6	-	-	10	10	1500	1	3	bcpbcv	bc oir	irorrc	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.
f$_s$, fog over sea (coast station).
f$_g$, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
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/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).
⊕, Solar halo. ☾, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—b/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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

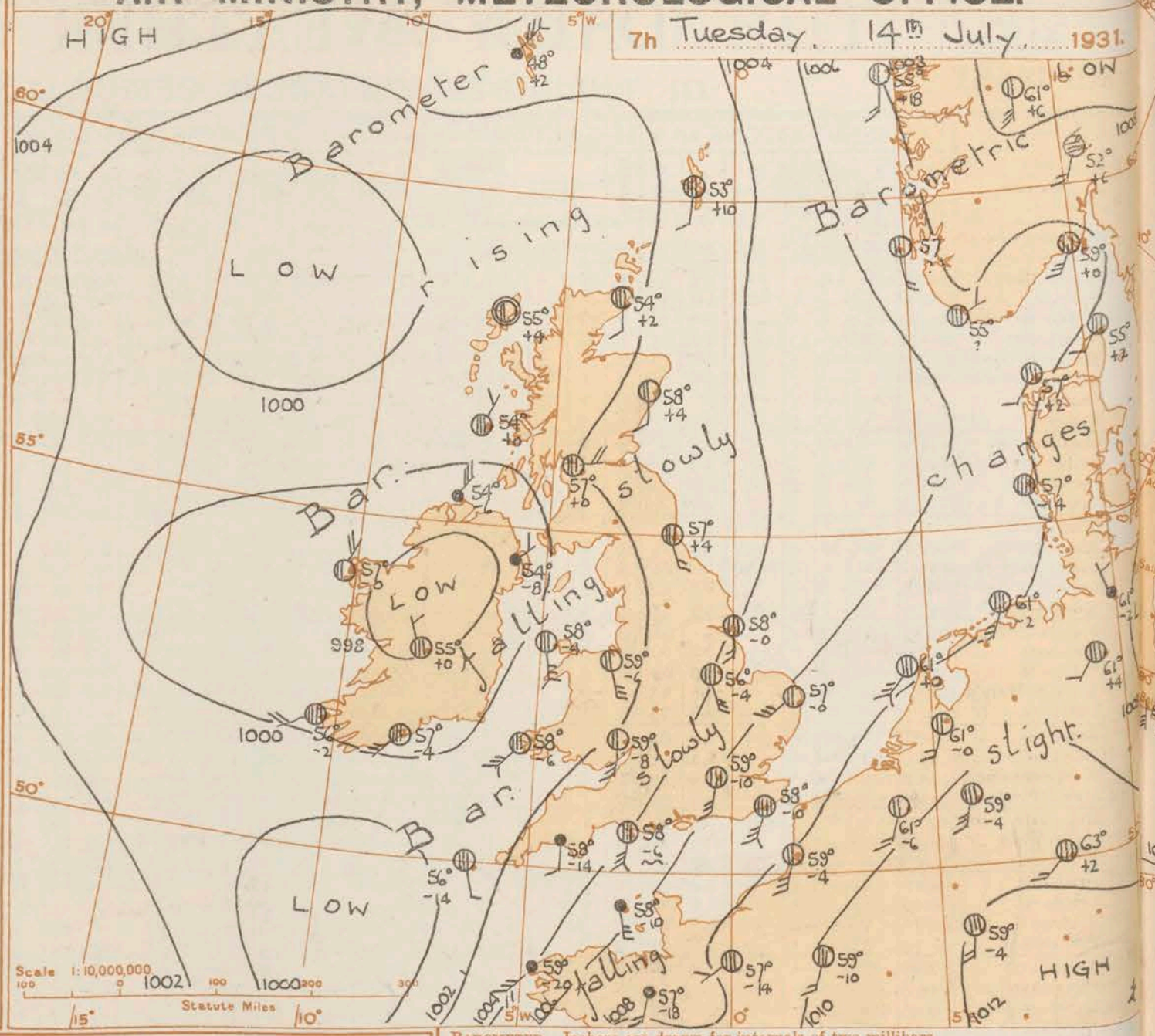
REPORTS from HEALTH RESORTS for 13th JULY, 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 12th to 9h. 13th	Temperature. Max. 9h.—17h. 13th	Rainfall. Night, 17h. 12th to 9h. 13th	Rainfall. Day. 9h.—17h. 13th	Sunshine. Sunrise to 17h. 13th	Sunshine. Sunrise to Sunset. 12th
1	Tunbridge W.	pocbc	cbc	55	67	1	Tr.	6.9	7.7
	Bournemouth	cb	bbc	57	68	-	-	6.3	2.9
	Ventnor ...	pcbc	bc	57	62	1	-	6.1	3.0
	Southsea ...	cb	bcb	58	67	0.3	-	7.0	3.5
	Bognor Regis	dbcbc	bc	58	65	0.3	-	7.8	4.9
	Littlehampton	cbc	bc	58	64	Tr.	-	7.2	5.2
	Worthing ...	c	bcb	59	66	Tr.	-	6.9	4.8
	Brighton ...	cbc	bbc	59	64	-	-	6.2	5.2
	Eastbourne†	rocbc	bc	58	65	0.3	0.5	8.2	5.3
	Hastings† ...	opcbc	bcbbc	57	66	-	0.2	5.4	6.1
	Folkestone ...	bccod	cbc	56	67	Tr.	Tr.	6.2	6.3
	Dover... ...	corc	cbcc	50	64	0.3	2	6.8	6.8
	Deal	bcopb	bbc	56	68	0.5	1	9.9	6.3
	Ramsgate ...	bc	bc	56	67	0.3	-	9.4	6.2
	Margate ...	bcp	bc	55	69	0.2	Tr.	10.2	6.7
2	Southend ...	bcr	bcr	56	69	Tr.	Tr.	7.7	4.7
	Maldon ...	bcorc	bcptbc	54	70	-	3	6.2	4.6
	Clacton-on-Sea	bccpbc	bccpbc	57	68	-	0.5	8.1	4.0
	Dovercourt ...								
	Lowestoft ...	bcprl	bcrtl	54	66	0.2	12	7.2	4.4
	Skegness ...	bor	rob	53	67	12	3	7.9	4.7
	Mablethorpe	cbc	bc	52	70	Tr.	-	9.5	2.4
	Cleethorpes ...	bcb	bcotlr	53	72	21	6	10.1	0.2
3	Leamington S.	bc	bc	54	69	0.5	-	9.0	3.7
4	Cheltenham†	bccp	cbc	53	69	3	Tr.	6.7	1.1
5	Bath	bcpbc	bccpt	55	68	12	2	5.7	0.7
	Weymouth ...	cb	bcb	58	66	Tr.	-	7.8	2.9
	Jersey ...	cpr	c	57	66	-	0.2	3.5	5.3
	Torquay ...	rpb	bcpcp	56	67	1	-	10.3	4.7
	Penzance ...	b	bpr	55	65	1	0.2	9.0	8.0
	St. Ives ...	bpr	bpr	54	65	1	1	9.6	7.7
	Bude	bc	bcp	55	65	2	4	9.8	4.1
	Ilfracombe ...	bcpbc	bbc?	55	66	4	5	9.7	3.4
6	Aberystwyth	cprbc	bcprc	53	65	1	0.5	8.8	3.5
7	Llandudno ...	bc	bc	56	69	-	-	10.0	3.6
	Colwyn Bay...	bcc	bcb	52	68	-	-	11.0	4.4
	Rhyl	bcb	bc	52	68	-	-	11.7	3.7
8	Wallasey ...	bbcp	b	54	69	-	Tr.	10.1	1.8
	Southport‖ ...	bcb	b	55	68	-	-	9.1	2.5
	Blackpool ...	cbc	bc	57	67	-	-	8.2	2.6
	Morecambe ...	b	b	57	66	-	-	9.0	2.2
9	Ilkley... ...	cbccb	orbcc	52	66	4	3	5.0	0.0
10	Berwick-on-T.	bc	bc	50	65	1	-	7.0	0.1
11	Dunbar ...	bc	bcc	51	66	-	Tr.	7.7	1.3
12	Douglas ...	cbbc	bccb	53	62	4	-	10.3	5.8

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Tuesday, 14th July, 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 14th July, 1931.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England	Wind southerly to variable or westerly, moderate or fresh, strong at times locally; dull, rain at times; day temperature below normal.
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind variable or east to northeast, mainly light or moderate; dull, some rain; moderate temperature, cooler tomorrow.
13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind light variable to easterly; fair periods, probably occasional rain; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable wind; mainly cloudy, occasional rain and possibly thunder; moderate temperature.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force.
Temperature is given in degrees F. Calm. - ⊙
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A complex low pressure area covers our western districts. A centre off the mouth of the English Channel will deepen and move east to northeast, and weather will be very unsettled generally.

FURTHER OUTLOOK.

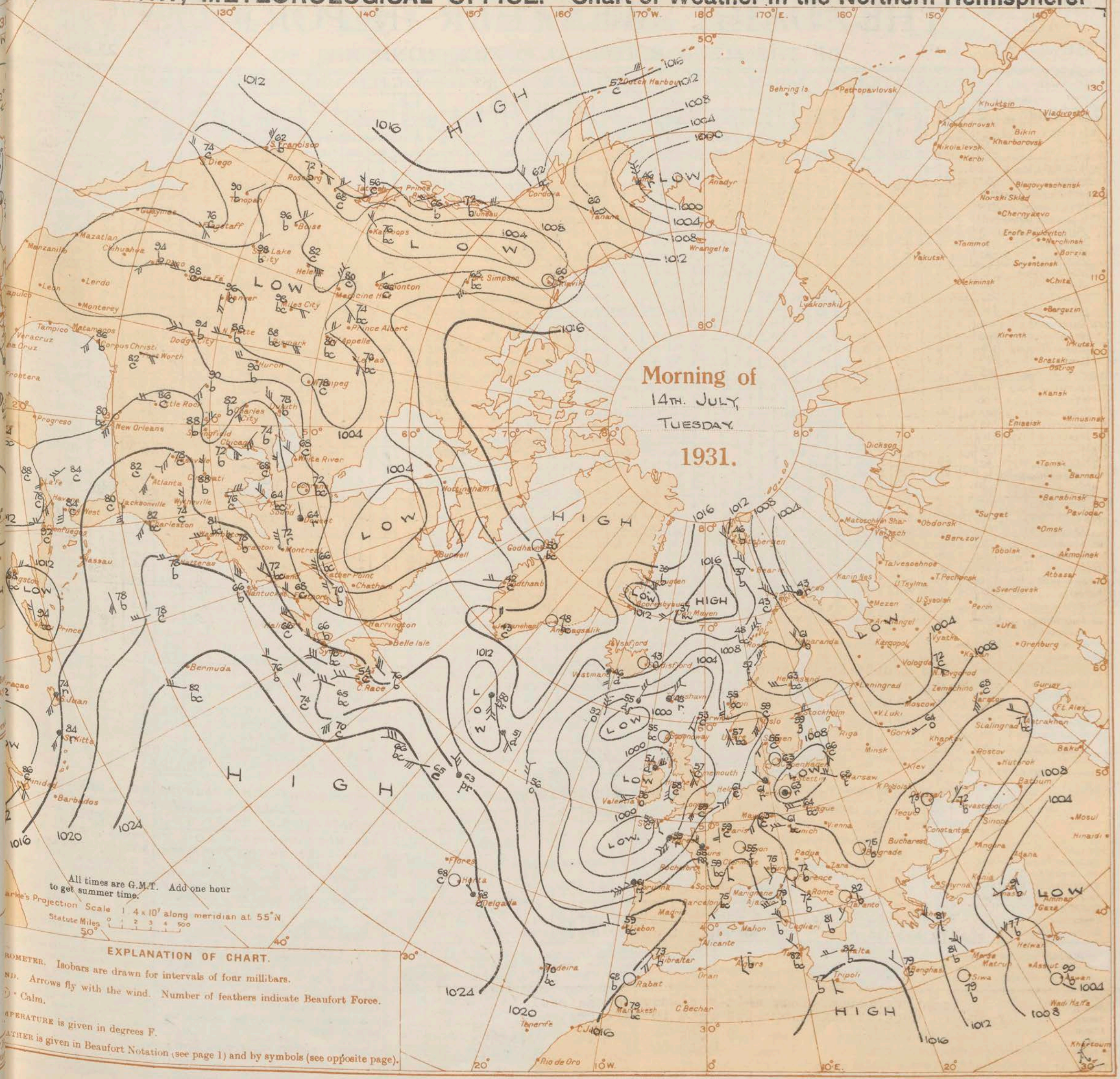
Very unsettled and rather cool.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway W.C.2

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


Morning of
14TH. JULY,
TUESDAY.
1931.
HIGH
LOW
1012
1016
1008
1004
1000
1020
1024
Dutch Harbour
Behring Is.
Petropavlovsk
Anadyr
Wrangel Is.
Tanana
Cordova
Juneau
Prince Rupert
Kamloops
Edmonton
Fort Simpson
Medicine Hat
Prince Albert
Swift Current
Miles City
Helena
Boise
Salt Lake City
Winnemucca
Roseburg
San Francisco
Tonopah
Flagstaff
Guaymas
Mazatlan
Manzanillo
Chihuahua
Leon
Lerdo
Monterey
Tampico
Veracruz
Corpus Christi
Dodge City
Fort Worth
Amarillo
Santa Fe
North Platte
Denver
Huron
Winnipeg
Duluth
Little Rock
New Orleans
Progreso
Charles City
Springfield
Chicago
Cincinnati
Atlanta
Jacksonville
Havana
Key West
Charleston
Wilmington
Hatteras
Nassau
Kingston
Prince
Bermuda
San Juan
St Kitts
Barbados
Trinidad
Belle Isle
Harrington
Sydney
Nantucket
Chatham
Father Point
Montreal
Toronto
Detroit
Sandusky
Cleveland
Pittsburgh
White River
Buffalo
Portland
Boston
New York
Washington
Norfolk
Key West
Havana
Jacksonville
Wilmington
Charleston
Hatteras
Nassau
Kingston
Prince
Bermuda
San Juan
St Kitts
Barbados
Trinidad
Belle Isle
Harrington
Sydney
Nantucket
Chatham
Father Point
Montreal
Toronto
Detroit
Sandusky
Cleveland
Pittsburgh
White River
Buffalo
Portland
Boston
New York
Washington
Norfolk
Godthaab
Angmagsalik
Ivigtut
Julianehaab
Scoresbysund
Jan Mayen
Bergen
Thorshavn
Vestmannaeyjar
Isafjord
Reykjavik
Stornoway
Valentia
Shannon
Aberdeen
Lerwick
Hellisland
Oslo
Stockholm
Copenhagen
Helsingfors
Leningrad
Moscow
Archangel
Murmansk
Petsamo
Kandalaksha
Kem
Onega
Vologda
Yaroslavl
Nizhni Novgorod
Kazan
Perm
Ufa
Orenburg
Kargopol
Vyatka
Zemchino
Gurjev
Astrakhan
Stalingrad
Saratov
Ft. Alexander
Baku
Rostov
Kutaisi
Batoum
Sevastopol
Tiflis
Sinope
Angora
Adana
Smyrna
Konia
Aleppo
Gaza
Amman
Mosul
Hinaidi
Khartoum
Wadi Halfa
Assuat
Siwa
Benghasi
Tripoli
Malta
Cagliari
Palermo
Rome
Naples
Ajaccio
Marseilles
Barcelona
Madrid
Lisbon
Gibraltar
Tangier
Oran
Algiers
Alicante
Mahon
Rabat
Mogador
Marrakesh
C. Bechar
Tenerife
Rio de Oro
Madeira
Flores
Horta
Belgaida
Vienna
Munich
Berlin
Stettin
Warsaw
Prague
Paris
Brussels
Cherbourg
Rochefort
Bordeaux
Lisbon

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

TUESDAY, 14th JULY, 1931.

No. 25,436.

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

Dist.	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)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1007.9	-6	SSW	3	bc	57	95	7	5	3	-	2-3	2-3	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1008.2	-6	S'W	5	bc	60	85	7	5	-	-	4-6	4-6	800
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1008.5	-6	SW	3	b	53	95	8	5	-	-	1	1	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1006.7	0	SW	2	bc	55	95	7	-	4	-	0	2-3	-
	Cranwell	240	1005.2	-8	SSW	2	c	55	95	6	5	3	1	4-6	7-8	5700
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1006.0	-10	S'W	5	c	59	95	8	4	4	-	4-6	7-8	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1005.5	-6	SW'W	4	pr	57	95	8	3	7	-	4-6	7-8	2500
	Scilly (St. Mary's)	163	1004.1	-4	WSW	4	bc/pr	56	95	7	2	-	-	2-3	2-3	4000
	Guernsey	175	1008.3	-16	SW	3	bc	57	85	8	5	-	-	4-6	4-6	2500
6	Pembroke	142	1001.4	-10	SW	4	bc	57	85	8	8	-	-	4-6	4-6	2500
7	Holyhead	26	1002.3	-14	SSE	3	pr	57	95	8	4	-	3	7-8	9	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1004.2	0	SW	3	bc	56	95	7	4	1	-	2-3	4-6	4000
	Tynemouth	87	1003.2	0	SW	1	bc	54	85	6	2	-	-	2-3	2-3	2500
11	Inchkeith	190	1002.2	0	SSE	1	c	56	85	8	8	7	-	7-8	10	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1000.5	+6	S	2	bc	46 (45)	95	7	4	-	-	4-6	4-6	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1001.5	0	-	0	bc	51	95	8	8	8	-	2-3	4-6	2500
16	Lerwick	54	1001.1	+16	WSW	2	c	51	95	8	6	2	-	4-6	9+	1500
17	Blacksod Point	18	999.8	-4	-	0	bc	54	85	7	5	-	-	2-3	2-3	2500
18	Malin Head	52	1000.2	-6	-	0	c	54	95	8	5	3	-	4-6	9+	5700
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1000.8	-6	SW	4	iR	56	95	7	3	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Dist.	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)	1005.3	-10	S'W	3	c	61	75	8	4	-	6	4-6	7-8	2500	0	*
	Croydon	1006.0	-10	SSW	3	c	59	85	7	5	-	2	4-6	7-8	800	0	*
	S. Farnborough	1004.9	-8	SSE	2	in.	60	85	6	6	-	-	9+	9+	800	0	*
	Winchester	1004.5	-8	SSW	2	c/pr	57	95	7	6	-	-	9+	9+	450	1	*
	Boscombe Down	1004.2	-10	S'W	3	rr	57	95	7	5	-	-	10	10	800	1	*
	Calshot, (S'thmtn)	1005.6	-10	S'E	4	c	60	85	7	5	-	-	10	10	1500	0	2
	Dungeness	*	*	SSW	4	c	*	*	7	5	7	*	4-6	7-8	2500	*	2
	Lympne	1006.6	-10	SSW	4	o	58	95	7	5	-	-	10	10	800	0	*
2	Shoeburyness	1006.0	-6	S	2	bc	61	85	7	8	7	6	2-3	4-6	7200	0	*
	Felixstowe	1006.5	-8	SSW	4	c	62	85	8	7	3	1	4-6	7-8	1500	0	3
	Gorleston	1006.1	0	SW'W	3	bc	57	95	6	3	3	-	1	4-6	2500	0	1
	Cranwell	1004.1	-4	S'E	3	c/pr	56	95	6	5	3	-	4-6	9+	4000	1	*
3	Cardington	1004.5	-8	S'W	4	c	60	75	8	4	4	1	7-8	9	1500	*	*
	Birmingham	1003.4	-4	S	3	c	57	85	7	5	-	-	7-8	7-8	2500	1	*
	Upper Heyford	1004.0	-8	S'E	3	c/r	58	85	7	6	7	-	4-6	9	800	1	*
	Leafield	1003.5	-10	SSE	4	o/r	55	95	8	6	-	-	10	10	1500	1	*
4	Ross-on-Wye	1002.9	-8	SSW	3	bc	59	85	7	9	-	3	2-3	4-6	4000	1	*
5	Portland Bill	1003.4	-6	S'W	4	c	58	95	6	8	7	8	4-6	9	1500	1	4
	Plymouth	1002.2	-14	S	1	pr.	58	95	7	9	7	-	4-6	10	800	1	2
	Falmouth	1002.4	-18	S'W	2	rr	56	95	7	6	2	-	4-6	10	2500	1	2
	Scilly (St. Mary's)	1001.1	-14	S'E	1	c	56	95	7	8	-	-	9	9	2500	1	2
	Guernsey	1005.1	-10	SSE	3	id.	58	95	7	8	-	-	10	10	1500	1	3
6	Pembroke	1000.2	-6	SW	4	c	58	85	8	8	8	-	4-6	7-8	1500	1	3
7	Holyhead	1001.0	-4	S'E	4	jp	58	95	8	8	-	-	9	9	1500	1	2
	Chester (Sealand)	1001.2	-6	SSE	3	bc	59	85	7	5	3	-	2-3	4-6	1500	1	*
8	L'pool (Bidston)	1000.9	-2	SE'S	4	bc	59	85	8	4	6	-	2-3	4-6	4000	1	*
9	Harrogate	1002.9	-6	SE	2	in.	57	95	5	6	2	-	7-8	9+	2500	1	*
10	Spurn Head	1003.6	0	SSW	2	c	58	95	6	4	1	-	4-6	9+	4000	0	1
	Tynemouth	1002.9	-4	SSE	2	c	57	85	6	4	-	-	9	9	2500	0	1
11	Inchkeith	1002.6	+2	SE	1	c	55	95	8	8	-	-	9	9	4000	1	2
	Leuchars	1002.6	0	E	1	c	57	85	8	7	3	1	4-6	7-8	2500	1	*
12	Renfrew	1002.0	0	E	2	c/r	57	95	5	8	-	-	9+	9+	2500	1	*
	Eskdalemuir	1001.6	-2	ESE	1	c	56	85	8	5	-	-	7-8	7-8	1500	1	*
13A	Tiree	1000.4	0	NE	1	c	54	95	8	5	7	-	4-6	7-8	2500	0	1
13B	Stornoway	1001.1	+4	-	0	bc	55	85	9	-	6	-	0	2-3	-	0	0
15	Dalwhinnie	1002.5	+20	S	1	c	55	85	8	3	5	-	4-6	10	450	1	*
	Aberdeen	1002.5	+4	S	1	bc	58	85	8	-	4	-	0	4-6	-	1	0
	Wick	1001.4	+2	S	1	c	54	95	8	5	3	-	4-6	7-8	2500	1	2
16	Lerwick	1003.4	+10	S'W	1	c	53	95	7	5	-	-	7-8	7-8	1500	1	*
17	Blacksod Point	999.4	0	NE	2	bc	57	85	9	5	-	2	2-3	4-6	1500	0	2
18	Malin Head	999.3	-6	NE'E	3	d. d.	54	95	5	6	-	-	10	10	450	1	1
	Aldergrove	998.1	-6	ENE	2	rr	55	95	6	6	2	-	7-8	10	1500	1	*
	Donaghadee	999.2	-8	NE	1	in.	54	95	7	6	-	-	9	9	800	1	0
19	Birr Castle	997.9	0	NW	1	o	55	95	8	8	-	-	10	10	1500	1	*
20	Valentia Obsy.†	999.6	-2	WSW	2	jp	56	95	8	5	-	-	10	10	800	1	2
	Roches Point	999.6	-4	SW	3	c	57	95	8	5	-	-	7-8	7-8	2500	1	3

PAST 24 HOURS.

Dist.	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 1.3 Hrs. (36)
1	London (Kew)	70	56	52	0.1	-	6.0
	Croydon	68	56	52	2	0.2	7.4
	S. Farnborough	68	56	51	1	Tr.	7.1
	Winchester	65	55	53	3	0.5	4.1
	Boscombe Down	67	55	52	1	1	*
	Calshot, (S'thmtn)	66	58	56	0.3	-	4.9
	Dungeness	67	57	*	Tr.	Tr.	*
	Lympne	65	53	51	0.3	Tr.	6.1
2	Shoeburyness	71	56	53	Tr.	-	8.9
	Felixstowe	69	57	54	1	-	9.3
	Gorleston	65	53	50	12	-	7.8
	Cranwell	70	51	49	Tr.	0.1	11.2
3	Cardington	*	*	*	*	*	*
	Birmingham	68	54	52	0.4	Tr.	7.7
	Upper Heyford	69	53	50	2	0.1	*
	Leafield	67	51	47	2	1	6.3
4	Ross-on-Wye	69	55	53	-	3	10.4
5	Portland Bill	61	57	*	-	1	*
	Plymouth	63	57	53	9	4	10.1
	Falmouth	63	55	*	1	6	10.2
	Scilly (St. Mary's)	65	56	*	1	1	9.6
	Guernsey	65	57	55	Tr.	0.1	8.4
6	Pembroke	62	55	*	2	5	10.1
7	Holyhead	63	55	53	-	3	12.1
	Chester (Sealand)	71	53	49	0.3	0.4	8.1
8	L'pool (Bidston)	68	55	53	0.4	0.1	11.6
9	Harrogate	64	53	47	1	1	5.1
10	Spurn Head	73	55	*	5	1	10.2
	Tynemouth	64	53	49	7	-	*
11	Inchkeith	62	54	47	2	0.1	6.8
	Leuchars	67	51	44	-	0.1	10.6
12	Renfrew	61	53	46	-	0.3	5.0
	Eskdalemuir	62	47	43	2	-	6.6
13A	Tiree	61	43	33	0.4	-	6.9
13B	Stornoway	62	(45)	*	-	-	6.1
15	Dalwhinnie	61	51	46	-	2	5.0
	Aberdeen	64	49	38	2	-	3.0
	Wick	56	50	*	7	Tr.	*
16	Lerwick	55	51	*	5	4	0.0
17	Blacksod Point	61	49	*	0.1	-	*
18	Malin Head	63	49	*	2	0.2	10.7
	Aldergrove	63	52	44	4	1	6.3
	Donaghadee	65	53	*	2	2	*
19	Birr Castle	66	53	54	3	19	5.0
20	Valentia Obsy.†	62	55	53	3	5	3.7
	Roches Point	62	56	*	5	6	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	bc cpr.	bc cpo bc	bc bc	70	56	52	0.1	-	6.6	*	*	7
Croydon	217	bc cpr	cpr bc	bc	68	56	52	2	0.2	7.4	*	*	8
Greenwich (Royal Observatory)	149	cp .	cbc ⊕	cp. c ⊕	73	55	47	0.3	Tr.	6.0	62	70	7
City (Bunhill Row)	—									5.2	*	*	*
Westminster (St. James' Park)	27	.	.	.	67	58	54	Trace		5.2	67	76	*
Regents Pk. (Botanic Gardens)	168	.	.	.						4.4	*	*	*
Camden Square	110	c	c c pc	.	69	56	53	4	1	*	*	86	*
Kensington	80	bc p	c	.	69	57	51	Tr.	0.3	5.5	At 18h. 69	89	*
Hampstead Observatory	450	bc p	bc p	.	68	53	44	1	Tr.	5.3		67	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 14th

South Kensington.

Max.	Time.	Min.	Time.
0.2	7h 13th 48h 14th	NIL	13h. 13th 2h 14th

Kew Observatory.

Max.	Time.	Min.	Time.
0.1	4h. 14th	<0.1	Rest of period.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 13th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 14th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	1011.4	SW'W	4	bc	72	1010.2	S	2	c	59	72		Tr.	Tr.
Brussels	1010.3	W	2	c	64	1009.2	SSW	2	bc	61	73	54	-	Tr.
Berlin	1009.5	NW	2	u	73	1005.7	-	0	r/t/r	63	77	61	-	4
Zürich	1010.5	SE	3	t/r	68	1013.5	N	1	bc	59	81	54	0.3	22
Rome						1012.5	NW	1	b	72		72		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2¼	,,
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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† Hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

WEDNESDAY, 15th JULY, 1931.

No. 25,437.

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

District.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1002.8	-2.0	SW	4	c	67	65	8	4	-	8	7-8	9	2500
	Croydon	1003.8	-1.0	S	4	id$_o$	62	85	8	5	2	1	4-6	9+	800
	S. Farnborough	1001.1	-1.4	SSE	3	pr$_o$	64	75	8	2	3	1	7-8	9	1500
	Winchester	1002.8	-6	S'W	4	c	59	95	7	9	-	-	9+	9+	800
	Boscombe Down	1001.3	-1.8	S'W	4	ir$_o$	60	95	7	8	-	1	9	9+	800
	Calshot, S'thmtn	1002.8	-2.0	SSE	4	c	62	75	8	6	2	-	7-8	9	1500
	Dungeness	*	*	S	3	c	*	*	7	5	1	*	4-6	9+	2500
	Lympne	1004.8	-1.4	S	4	c	61	85	8	2	1	-	1	10	1500
2	Shoeburyness	1004.5	-1.0	SSE	4	c	64	75	8	5	1	-	4-6	10	2500
	Felixstowe	1004.9	-1.0	S	4	c	64	75	8	7	1	-	4-6	9	2500
	Gorleston	1004.0	-1.0	S	6	c	60	95	6	8	-	-	9+	9+	2500
	Cranwell	1001.7	-1.0	SE'S	3	c$\|$tr$_o$	61	95	8	9	3	1	4-6	7-8	1500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1000.6	-1.4	S	2	c	66	55	8	8	3	-	4-6	9	2500
	Upper Heyford	1001.4	-1.6	S'E	3	pr	61	85	6	9	-	-	9+	9+	800
	Leafield	1001.2	-1.0	SSE	4	pr	58	95	6	9	-	-	9+	9+	800
4	Ross-on-Wye	1001.0	-1.0	SW	2	r$\|$r$_o$	58	95	7	9	-	-	10	10	2500
5	Portland Bill	1001.1	-1.2	S	4	c$\|$pr	58	95	8	8	7	8	4-6	10	1500
	Plymouth	999.2	-1.4	SSE	3	rr	57	95	6	6	2	-	9	10	800
	Falmouth	998.8	-.8	S'E	4	rr	57	95	7	6	2	-	4-6	10	2500
	Scilly (St. Mary's)	998.8	-.4	NW'W	2	c	60	95	7	9	-	-	9+	9+	1500
	Guernsey	1000.6	-.28	SE	3	rr	58	95	6	6	-	-	10	10	1500
6	Pembroke	999.5	-.6	S	2	c	60	85	8	6	8	1	4-6	7-8	1500
7	Holyhead	1000.2	-.6	S	4	bc	63	75	8	8	-	3	2-3	4-6	4000
	Chester (Sealand)	999.7	-.8	S'E	4	c	70	55	9	2	1	1	2-3	7-8	4000
8	L'pool (Bidston)	999.2	-.4	SW'S	2	bc	68	55	9	7	-	1	4-6	4-6	4000
9	Harrogate	1000.5	-1.0	SE	3	b	63	65	7	9	-	-	9+	9+	2500
10	Spurn Head	1001.7	-.4	SE'E	4	c	61	85	7	3	3	1	2-3	9+	4000
	Tynemouth	1001.2	-.4	ESE	2	bc	61	85	6	9	-	-	4-6	4-6	1500
11	Inchkeith	1000.8	-.8	E	2	ir	59	95	6	9	-	-	9+	9+	1500
	Leuchars	1001.8	-.4	E	3	c	64	75	7	8	3	1	4-6	7-8	4000
12	Renfrew	1001.1	+.2	NW	1	c$\|$r$\|$r$_o$	59	95	6	8	2	-	9	10	2500
	Eskdalemuir	1000.0	-.6	NE	1	c	60	75	7	3	-	-	9	9	2500
13A	Tiree	1000.3	0	NE	3	c	60	85	8	7	7	-	2-3	7-8	4000
13B	Stornoway	1001.8	+.2	NE	3	bc	60	85	8	1	7	-	1	2-3	4000
15	Dalwhinnie	1002.0	-.20	SE	1	r	59	85	7	4	5	-	4-6	10	800
	Aberdeen	1003.0	+.4	ESE	2	b	62	75	8	3	-	4	Tr	1	2500
16	Lerwick	1002.2	+.4	S	1	bc	57	85	8	2	4	-	4-6	4-6	2500
17	Blacksod Point	1004.6	+.6	SE	2	c	59	85	6	5	2	-	4-6	9+	450
18	Malin Head	1000.2	0	N	3	bc	61	75	9	1	-	-	2-3	2-3	2500
	Aldergrove	998.5	-.2	NE	3	c$\|$r	57	95	7	5	1	-	7-8	9+	1500
	Donaghadee	997.5	-.6	ESE	3	c	63	65	8	8	-	3	7-8	9	1500
19	Birr Castle	998.5	-.4	SE	2	bc	58	85	8	8	3	-	2-3	4-6	2500
20	Valentia Obsy.	997.8	-.2	NW	2	c	60	75	8	8	-	-	9+	9+	2500
	Roches Point	999.9	0	W'N	3	c$\|$pr	69	85	8	8	-	-	7-8	7-8	1500

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

District.	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	999.3	-.22	ESE	2	rr	60	85	7	6	2	-	2-3	10	1500	1	*
	Croydon	999.9	-.24	E'S	3	rr	59	95	6	5	2	-	9+	10	800	1	*
	S. Farnborough	998.3	-.26	SE	2	rr	57	95	6	6	2	-	9	10	800	1	*
	Winchester	997.8	-.26	ESE	3	r$_o$r$_o$	56	95	7	6	2	-	7-8	10	1500	1	*
	Boscombe Down	997.5	-.30	ESE	3	rr	56	95	6	6	-	-	10	10	450	1	*
	Calshot, S'thmtn	997.2	-.42	E'S	5	rr	60	95	6	6	-	-	10	10	800	1	3
	Dungeness	*	*	SE	3	r$_o$r$_o$	*	*	7	3	2	*	9	9+	1500	*	1
	Lympne	1000.7	-.26	SE'S	3	rr	57	95	6	6	-	-	10	10	450	1	*
2	Shoeburyness	1000.8	-.20	S'W	4	ir$_o$	60	85	8	3	2	-	4-6	9+	2500	1	*
	Felixstowe	1001.7	-.16	SE	4	c	63	75	8	8	7	-	4-6	9	2500	0	2
	Gorleston	1001.9	-.10	SSE	4	bc	62	85	7	-	9	8	0	4-6	-	0	3
	Cranwell	1000.0	-.8	S	3	c$\|$pr	59	85	8	8	-	9	4-6	9+	4000	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	999.9	-.8	SSE	2	0	58	95	6	6	-	-	10	10	2500	1	*
	Upper Heyford	999.7	-.14	S'E	2	r$_o$r$_o$	57	95	6	6	-	-	10	10	800	1	*
	Leafield	998.7	-.14	S'E'S	3	r$_o$r$_o$	56	95	8	6	2	-	7-8	10	2500	1	*
4	Ross-on-Wye	998.5	-.16	E	2	ir$_o$	58	95	6	9	1	-	9	10	2500	1	*
5	Portland Bill	994.8	-.40	E	5	rr	58	95	7	9	-	-	10	10	800	2	4
	Plymouth	996.2	-.12	N	1	rr	57	95	8	6	2	-	7-8	10	800	2	0
	Falmouth	997.1	-.6	N'E	3	r$_o$r$_o$	58	95	7	5	2	-	4-6	7-8	4000	1	2
	Scilly (St. Mary's)	998.6	0	NNW	4	bc	62	85	8	2	9	-	2-3	4-6	4000	0	2
	Guernsey	989.3	-.64	SE	6	q	61	95	8	5	-	-	10	10	1500	2	4
6	Pembroke	999.7	-.10	WSW	1	bc$\|$pr	59	85	8	3	6	4	4-6	4-6	1500	0	2
7	Holyhead	999.6	-.6	SSW	3	u	62	65	8	3	8	3	1	7-8	4000	1	1
	Chester (Sealand)	998.9	-.6	SSE	3	ir$_o$	61	75	8	5	2	-	4-6	10	2500	0	*
8	L'pool (Bidston)	998.3	0	N'E	2	PR	62	75	8	6	1	-	7-8	9+	2500	1	*
9	Harrogate	1000.8	0	-	0	RR	56	95	5	6	2	-	7-8	10	2500	1	*
10	Spurn Head	1000.6	-.2	SW'S	2	c$\|$p	60	95	7	3	7	-	4-6	9	4000	1	3
	Tynemouth	1000.5	-.8	SE	2	0	58	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith	1001.2	-.4	NNE	2	c	55	95	8	5	-	-	9+	9+	2500	1	2
	Leuchars	1001.6	-.6	ESE	3	c$\|$p	60	85	7	9	8	3	4-6	7-8	1500	1	*
12	Renfrew	1000.6	0	NE	2	c$\|$r	57	95	7	8	7	3	4-6	7-8	4000	1	*
	Eskdalemuir	1000.3	-.6	E'N	4	bc	57	85	8	2	3	1	2-3	4-6	2500	1	*
13A	Tiree	1000.8	+.2	NNE	1	c$\|$p	57	95	7	5	2	-	4-6	9+	1500	1	1
13B	Stornoway	1001.9	0	NE	4	bc	58	85	8	1	7	-	1	4-6	4000	0	2
15	Dalwhinnie	999.7	+.4	S	1	c	56	85	7	4	-	-	7-8	7-8	800	1	*
	Aberdeen	1002.7	-.2	SE	3	f	55	95	2	5	-	-	10	10	<150	0	0
16	Lerwick	1002.6	+.2	SE	3	bc	55	95	8	7	4	-	2-3	4-6	2500	0	2
17	Blacksod Point	1005.4	0	SE	1	f	54	95	2	5	-	-	10	10	<450	0	*
18	Malin Head	1001.1	+.10	N	4	bc	59	75	9	1	-	-	4-6	4-6	2500	0	3
	Aldergrove	999.4	+.4	NE	4	c	57	95	7	8	3	6	4-6	9	2500	0	2
	Donaghadee	998.3	+.8	ENE	3	c	59	85	8	8	-	-	9	9	1500	1	*
19	Birr Castle	998.1	-.2	ESE	1	bc	59	85	8	8	3	2	2-3	4-6	2500	0	1
20	Valentia Obsy.	997.9	-.2	NNW	2	c	62	75	8	3	8	-	7-8	9	2500	1	*
	Roches Point	1000.5	+.6	NW'N	4	bc	61	75	9	8	-	-	2-3	2-3	2500	1	2
		998.6	0	W	3	c	60	85	8	6	-	9	4-6	7-8	1500	1	3

PAST 24 HOURS.

District.	Stations.	Weather. 7h.–15h. 14th (37)	Weather. 13h.–18h. 14th (38)	Weather. 18h. 14th to 1h. 15th (39)	Weather. 1h.–7h. 15th (40)
1	London (Kew)	bccpr$_o$	ccrr	crr cRr	cr$_o$r
	Croydon	cd$_o$d$_o$r	cd$_o$rr	orr RR	rrbcr$_o$r$_o$
	S. Farnborough	cp$_o$	cr$_o$r$_o$	oRR	orr
	Winchester	cpRc	cpr$_o$cr	corr rr	orrir
	Boscombe Down	cirR	cir$_o$orr	orr m$_o$	crr m$_o$
	Calshot, S'thmtn	crpro	corr	oRR rr	cRr$_o$
	Dungeness	o	r	*	r
	Lympne	c	c c r r	or R pr	cpr$_o$oddf
2	Shoeburyness	cpr$_o$c	cir$_o$	crr	crbc
	Felixstowe	bcc	cbcc	oRRq	rrc
	Gorleston	corcq	cbcq	oRRq	orrir
	Cranwell	prrlr	bcprc	PR r$_o$r$_o$	Rorr
3	Cardington	*	*	*	orr
	Birmingham	bcc	crtir	corr	rr
	Upper Heyford	crrPR	prr$_o$r$_o$	rr R	RR
	Leafield	cpr	cPir$_o$	crr	orrRRc
4	Ross-on-Wye	bcrrrl	r$_o$tciRd	R r$_o$r$_o$	roir$_o$
5	Portland Bill	cpr$_o$c	cddrr	rr RR	oRc pr
	Plymouth	curr m$_o$	corr m$_o$	crr	cpR bc
	Falmouth	crrq	crrr$_o$	cr$_o$ bc	bcp$_o$q
	Scilly (St. Mary's)	cr$_o$	c	cbc	cbcc
	Guernsey	cor$_o$r	cRrc	bcorr	cprbc
6	Pembroke	cbc	cir$_o$	cbc	bcc
7	Holyhead	pr$_o$cbc	bcu	c	cr$_o$r$_o$
	Chester (Sealand)	bcvy	cvyir$_o$	r$_o$r$_o$	crm$_o$
8	L'pool (Bidston)	bcvy	p$_o$cer	tlRo	o
9	Harrogate	eir$_o$if	rlhRR	cRR	ofrr
10	Spurn Head	cprc	clrpr	trcbc	crr
	Tynemouth	cbcp$_o$	bcoirlr	o	o
11	Inchkeith	crir$_o$	TLRc	co	ofcw
	Leuchars	bcc	cgo p$_o$	ir$_o$mf	om$_o$rc
12	Renfrew	cm$_o$t	cirt	cirbc	bccm$_o$
	Eskdalemuir	clRgir	clrbc	bc	bccir
13A	Tiree	cbcc	crrc	croc	cbc
13B	Stornoway	bc	bc	bc	bcf
15	Dalwhinnie	bc	rbc	*	r
	Aberdeen	bcb	bbcff	ffe	cmm$_o$
16	Lerwick	cbc	bc	Ff m$_o$	om$_o$
17	Blacksod Point	cm$_o$	cm$_o$ off	offe	offercm$_o$
18	Malin Head	bc	bc	cq	cc
	Aldergrove	orr c m$_o$m$_o$	cbcc	cd$_o$	c
	Donaghadee	crrc	cpr$_o$	cprdc	cbc
19	Birr Castle	ir$_o$bc	bc	c cd	cm$_o$
20	Valentia Obsy.	orc	cPRc	~~cr$_o$o~~	c
	Roches Point	cir$_o$p$_o$c	cp$_o$bcv	bcvcp$_o$	bccp$_o$bc
		cbcv	bcrrc	cpc	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.
f$_s$, fog over sea (coast station).
f$_g$, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail.
i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_g$, 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).
⊕, Solar halo.
☽, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

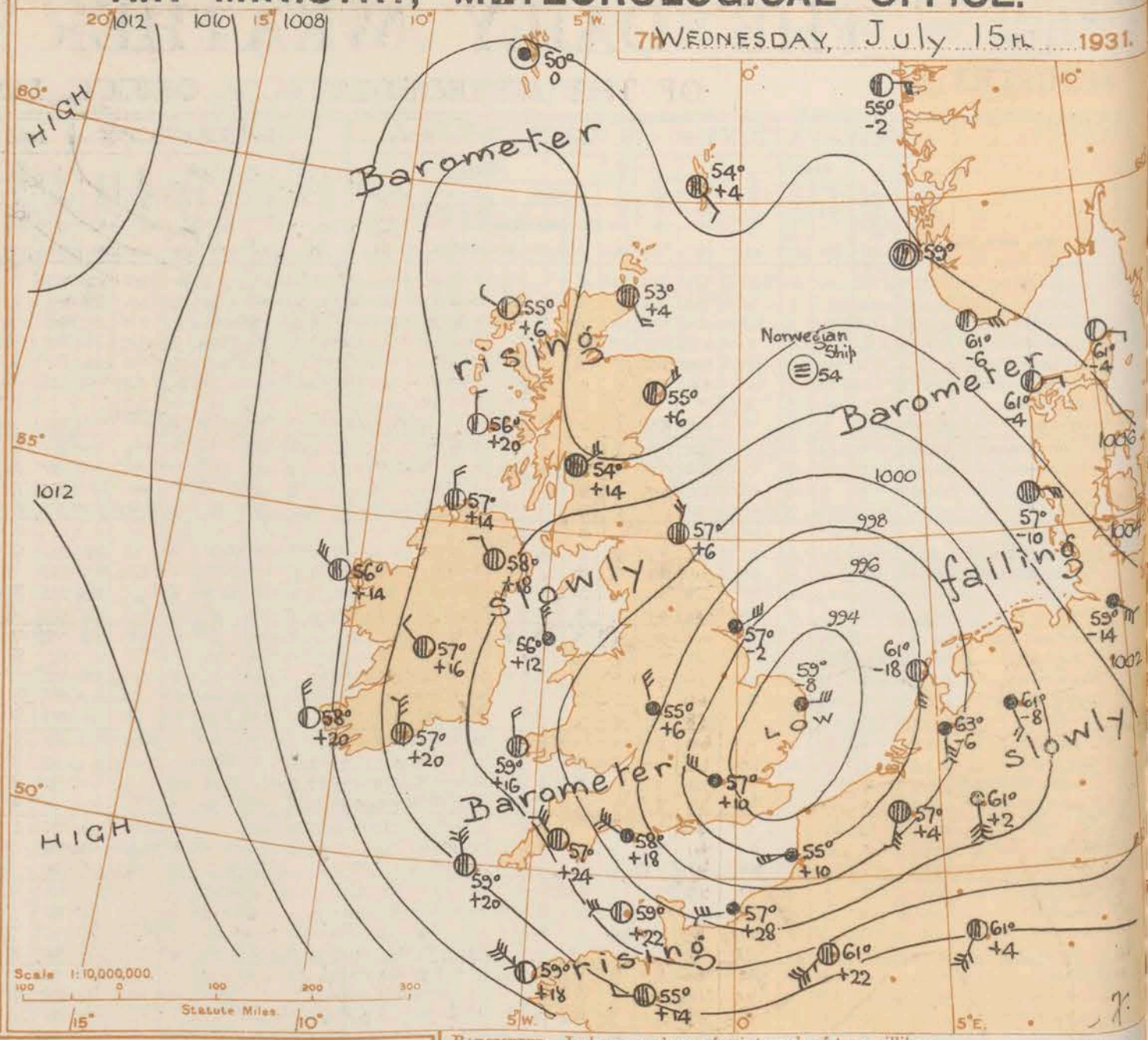
REPORTS from HEALTH RESORTS for 14th July, 1931.

Distts	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 13th to 9h. 14th	Temperature. Max. 9h.—17h. 14th	Rainfall. Night. 17h. 13th to 9h. 14th	Rainfall. Day. 9h.—17h. 14th	Sunshine. Sunrise to 17h. 14th	Sunshine. Sunrise to Sunset. 13th
1	Tunbridge W.	cbco	ocor	55	64	0.5	0.3	0.5	8·2
	Bournemouth	o	r	57	62	-	3	0.0	7.5
	Ventnor ...	opou	ocour	57	66	Trace	2	0.3	6·1
	Southsea ...	op.	opor	57	64	Trace	1	0.0	7·2
	Bognor Regis	bcobc	or rr	57	64	1	2	0·8	7·8
	Littlehampton	cpc	cbccr	58	63	-	2	0.7	9.0
	Worthing ...	cd.	ocoir	59	63	Trace	2	0·7	8.3
	Brighton ...	bc o	cr	59	63	-	2	0.5	7.9
	Eastbourne†	co	or.r.	58	63	-	2	0.5	9.1
	Hastings† ...	oc	ocor	57	65	-	2	0.9	6.6
	Folkestone ...	bccoc	cbcor	57	72	0.4	Trace	2·3	6.4
	Dover... ...	oc	cbcro	58	65	-	Trace	1·9	6·8
	Deal	cocbm	bcor.	55	68	-	Trace	3.9	8.7
	Ramsgate ...	c	cbcrd	57	64	-	1	4·3	9·9
	Margate ...	bcc	bcc	55	68	-	-	4·2	11·2
2	Southend ...	cor.	cor.	57	67	Trace	Trace	2.5	9.2
	Maldon ...	bcc	cpcpc	53	70	-	Trace	2.5	6.4
	Clacton-on-Sea	bcc	cbc	58	64	-	-	5 6·2	8·2
	Dovercourt ...								
	Lowestoft ...	bccpr	prcbc	53	63	3	4	6.4	7.4
	Skegness ...	obc	bom.	56	69	10	-	8·8	10.0
	Mablethorpe	bc	cotr	51	69	Trace	0·2	6.7	10·1
	Cleethorpes ...	oirc	iR o	55	65	0.5	15	3·4	10.5
3	Leamington S.	bcc	bcprc	55	68	0.5	2	6.3	10.3
4	Cheltenham†	bcco	oiror	56	65	-	7	2.7	7.8
5	Bath	cbcp	cr	57	65	9	3	3.0	5.9
	Weymouth ...	pcdrc	cr	57	60	3	5	0.1	9.1
	Jersey ...	rcr	rcbc	58	66	2	6	0.6	4.5
	Torquay ...	trorq	ormrm	55	60	10	5	0.0	11.5
	Penzance ...	c	cprb	54	65	10	0·2	1·9	9.0
	St. Ives ...	o	c	53	61	7	-	1·3	10.1
	Bude	orr	orr	54	59	4	11	0.2	10.7
	Ilfracombe ...	orr	rr	56	61	2	17	0.0	10.4
6	Aberystwyth	cprc	cprc	55	63	2	4	1·9	9.4
7	Llandudno ...	cbc	bcc	56	70	0.3	-	5.6	12.0
	Colwyn Bay...	cbc	bccrt	54	69	0.3	1	7.3	12.0
	Rhyl	prbc	bcrc	54	69	0.6	0.4	9.1	12·9
8	Wallasey ...	bccbc	bbcc	56	71	-	- 66 11		11.9
	Southport‖ ...	bccolthcbcothrco		55	66	0.5	5	4.3	10.7
	Blackpool ...	cbc	cptl	55	69	0.2	0.1	6.1	9.1
	Morecambe ...	thrcb	cbccb	56	69	-	2	6.6	11.5
9	Ilkley... ...	bcct	bcto	51	70	3	-	4.8	5.3
10	Berwick-on-T.	bc	ctlco	50	60	-	-	5.2	8.4
11	Dumbar ...	bc	ctirr	53	61	-	4	2.6	7.7
12	Douglas ...	cidcb	cbbc	55	62	1	0.3	5.2	10.3

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h WEDNESDAY, July 15th 1931.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Moderate northwest wind; mainly cloudy, some showers, perhaps local thunder; improving later; rather cool.
10. N.E. England 11. S.E. Scotland	Light or moderate northeast to north wind; cloudy, local drizzle, improving tomorrow; rather cool.
12. S.W. Scotland & Isle of Man 13. A. W Scotld. B. N.W. Scotland. 14. Mid-Scotland	Light variable or northerly wind; variable cloud, local showers and perhaps thunder; moderate temperature.
15. N.E. Scotland 16. Orkneys and Shetlands.	As 10 - 11.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate to light north to northwest wind, backing later; mainly fair but local showers; moderate temperature.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force.
Temperature is given in degrees F. Calm. - ⊙
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
Sea Disturbance. ~~ Rough. ≈≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A depression over Eastern England is moving northeast and becoming less deep. Weather will improve in the Southeast but there will be showers in most districts and perhaps local thunder.

FURTHER OUTLOOK.

Unsettled after a very temporary improvement.

Forecasts issued at 0925 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2 Fo 302 22 11 M 78 DEC 31 4305 21/620 791

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

Morning of
15TH. JULY,
WEDNESDAY.
1931.

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

Lambert's Projection Scale 1·4 x 10⁷ along meridian at 55°N
Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND: Arrows fly with the wind. Number of feathers indicate Beaufort Force.
C Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

WEDNESDAY, 15th JULY, 1931.

No. 25,437.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	994.1	-26	NE	2	r.r.	57	95	6	6	2	-	7-8	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	993.2	-2	WSW	1	bc	58	95	7	5	-	-	4-6	4-6	800
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	993.8	-30	SSE	4	pr	58	95	8	5	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	997.4	-32	E'S	5	RR	59	95	6	6	-	-	10	10	800
	Cranwell ...	240	997.5	-12	NE'N	2	r.r.	56	95	6	6	2	-	9	10	800
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	994.9	+2	NW'W	5	RR	57	95	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1000.5	+6	WNW	3	bc	55	95	8	7	-	-	2-3	2-3	4000
	Scilly(St.Mary's)	163	1001.3	+6	NW	4	bc	56	85	8	2	-	-	2-3	2-3	4000
	Guernsey ...	175	997.3	+42	W'N	5	o/r	56	95	7	5	-	-	10	10	1500
6	Pembroke ...	142	999.2	+2	WNW	1	bc	56	95	8	2	4	-	4-6	4-6	1500
7	Holyhead ...	26	1000.1	0	NNE	2	c	56	95	7	5	-	-	9+	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	998.1	-6	SE'E	4	bc	58	95	7	6	2	-	2-3	4-6	4000
	Tynemouth ...	87	1000.4	0	ESE	2	0	56	95	6	6	-	-	10	10	1500
11	Inchkeith ...	190	1001.7	+4	NE	3	0	54	95	6	5	-	-	10	10	800
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1002.5	+6	NNW	1	bc	54	95	7	1	7	9	1	4-6	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1003.7	+4	SSE	2	o	52	95	6	5	-	-	10	10	1500
16	Lerwick ...	54	1006.2	+4	-	0	o/fg	52	95	3	5	-	-	10	10	220
17	Blacksod Point	18	1003.4	+10	N	5	c	57	85	8	5	-	-	9+	9+	800
18	Malin Head ...	52	1001.4	+8	NNE	3	c/d.	55	95	7	5	-	8	7-8	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1003.9	+6	NW	4	bc	56	95	8	5	-	-	2-3	2-3	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
995.1	+24	NW'W	3	r.r.	57	95	6	6	2	-	4-6	10	1500	1	*
994.6	+10	NW	3	r.r.	57	95	5	6	2	-	10	10	450	1	*
995.8	+20	NW	2	r.r.	56	95	6	6	3	-	9+	10	450	2	*
996.9	+18	NW	4	ir	56	95	7	6	-	-	10	10	800	1	*
997.7	+16	NW	3	r.r.	55	95	6	6	2	-	9+	10	450	1	*
996.9	+20	W'N	4	r.r.	57	95	6	6	2	-	4-6	10	1500	1	1
*	*	W	3	c	*	*	7	6	1	*	4-6	7-8	2500	*	2
993.7	+10	WNW	3	id.	56	95	8	5	-	-	9+	10	450	1	*
994.0	0	NW'W	2	c	61	85	8	5	9	-	4-6	7-8	2500	1	*
993.7	-2	-	0	c	60	85	7	8	-	-	9	9	1500	1	0
993.6	-8	E	3	ir	59	95	6	6	-	-	10	10	800	1	3
996.8	0	N'E	4	rr	56	95	6	6	2	-	9+	10	450	1	*
995.0	+4	NNW	3	c/r	58	95	8	6	3	-	9+	9+	800	*	*
998.3	+6	NNW	3	ir.	55	95	5	6	-	-	10	10	1500	1	*
996.2	+10	NNW	3	r.r.	56	95	6	6	2	-	7-8	10	450	1	*
996.5	+6	N'W	3	c/r	56	95	7	6	7	-	9+	10	800	1	*
998.8	+10	NW	3	ir.	57	95	5	6	7	-	2-3	10	1500	1	*
998.4	+18	WNW	5	pr.	58	95	7	9	2	-	7-8	10	1500	2	4
1001.6	+24	NW	4	jp	57	85	8	3	3	3	4-6	7-8	1500	2	1
1003.3	+10	NW	4	bc	58	95	8	8	-	-	4-6	4-6	4000	1	2
1004.0	+20	NNW	5	c	59	85	8	2	-	4	4-6	7-8	4000	0	3
1001.5	+22	W	4	bc	59	85	7	8	4	-	4-6	4-6	2500	1	4
1001.0	+16	N'W	2	c	59	95	8	6	8	1	4-6	7-8	1500	0	2
1001.6	+12	NNW	3	r.r.	56	95	7	6	2	-	4-6	10	2500	1	1
999.7	+10	NW'N	2	c	58	85	6	5	3	1	2-3	7-8	4000	1	*
999.8	+8	N'E	2	c	58	85	7	5	-	-	9+	9+	2500	1	*
999.6	0	N	1	rr	55	95	3	5	-	-	10	10	<150	1	*
996.6	-2	ENE	3	rr	57	95	7	6	2	-	7-8	10	2500	1	3
1001.3	+6	NNE	2	o	57	95	7	6	-	-	10	10	1500	0	2
1002.7	+4	NE	3	c	54	95	7	5	2	-	2-3	9+	800	0	2
1002.7	+4	NE	3	bc	56	95	8	5	6	-	1	2-3	4000	0	1
1003.8	+6	WNW	1	bc	55	95	7	5	-	-	4-6	4-6	800	0	0
1004.6	+18	S	1	c	51	85	7	5	1	-	4-6	10	450	1	*
1004.6	+6	NE	2	c	55	85	6	5	2	-	7-8	10	2500	1	1
1004.8	+4	SSE	2	o	53	95	7	5	-	-	10	10	1500	0	2
1006.1	+4	SE	1	c	54	95	6	5	-	-	9+	9+	1500	0	*
1006.5	+14	NW	3	c	56	85	8	7	-	-	7-8	7-8	800	0	3
1003.3	+14	N'W	2	c	57	95	8	5	3	-	2-3	7-8	1500	0	1
1003.3	+18	NW'N	1	c	58	85	6	8	3	-	2-3	7-8	1500	1	*
1002.1	+12	SSW	1	c	55	95	6	5	2	-	4-6	7-8	800	0	1
1003.0	+16	NW	1	c	57	95	8	9	1	-	9	9+	2500	1	*
1007.4	+20	NNW	3	bc	58	85	8	8	3	-	4-6	4-6	1500	1	2
~~1007.4~~ 1004.2	+20	N	4	c	57	85	8	3	-	-	7-8	7-8	2500	0	3

PAST 24 HOURS.

District	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 14.45 Hrs. (36)
1	69	57	56	1	20	4.1
	65	53	51	1	9	2.3
	66	55	55	1	21	2.5
	62	54	54	11	30	0.1
	62	54	54	6	23	*
	63	55	54	6	12	0.2
	61	55	*	1	11	*
	64	55	53	1	12	1.4
2	69	55	55	0.1	17	4.3
	66	58	55	-	15	5.4
	64	58	56	2	14	6.9
	67	55	55	3	11	4.7
3	*	*	*	*	*	*
	67	55	53	3	7	4.9
	63	55	54	8	16	*
	65	53	53	6	15	3.3
4	66	54	54	8	11	5.1
5	59	55	*	4	18	*
	59	55	51	18	3	0.0
	58	54	*	8	1	0.0
	63	55	*	0.1	-	3.5
	63	55	53	9	3	1.3
6	62	54	*	0.2	-	4.5
7	64	55	55	0.1	0.4	10.8
	71	54	52	Tr.	1	7.3
8	69	54	52	0.2	3	7.2
9	65	53	49	5	4	3.6
10	66	55	*	8	1	3
	63	53	52	9	-	9.2
11	61	53	50	5	Tr.	4.4
	65	54	54	0.1	Tr.	6.8
12	65	49	41	16	1	2.4
	62	52	50	6	3	4.5
13A	61	52	42	3	1	5.1
13B	62	51	*	-	-	~~13.7~~
15	59	48	48	4	7	0.6
	63	53	53	-	Tr.	9.2
16	58	51	*	-	-	*
	60	51	*	-	-	0.7
17	61	55	*	-	-	*
18	58	55	*	3	0.1	2.9
	64	51	47	4	1	2.1
	60	51	*	12	-	*
19	63	54	53	5	Tr.	3.0
20	62	53	46	0.6	0.3	7.0
	63	55	*	3	2	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	bc.pr.	c.r.r	c.r.R.c.g.r	69	57	56	1	20	4.1	*	*	6
Croydon	217	c.d..d.r	c.d..r.r	d.R.R.r.b.c.g	65	53	51	1	9	2.3	*	*	6
Greenwich (Royal Observatory) ...	149	c.p	c.p.d.r	r.d.r.R.R.c	67	53	45	2	13	2.2	73	88	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	2.7	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	66	58	57	18		2.9	59	91	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	3.7	*	*	*
Camden Square	110	c.p	c.p.o.r	*	69	57	57	4	22	*	*	97	*
Kensington	80	c.b.c	c.o.r	*	67	57	56	1	20	3.9	At 18h. 89	96	*
Hampstead Observatory ...	450	b.c.p	b.c.o.r	*	66	53	49	3	21	2.6	89	95	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.2	7-11hrs 14th	Nil.	14-16hrs 14th

Kew Observatory. Max.	Time.	Min.	Time.
0.1	20hrs 14th	<0.1	13hrs.14th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 14th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 15th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	1001.5	SSE	2	r.r.	64	1002.7	SW	7	c	61	68	59	4	2
Brussels	1003.4	SE	2	c	63	997.4	SSW	4	o	57	68	57	1	4
Berlin	1008.1	-	0	c	66	1004.4	ESE	3	c	64	68	55	6	-
Zürich	1006.8	E	1	c	70	1007.6	NW	2	r.r.	59	77	59	-	0.3
Rome	1011.0	S	3	b	84	1011.9	NNE	1	b	81	95	66	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	"
2	Fog	550	"
3	Moderate fog	1,100	"
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	"
6	Moderate	6¼	"
7	Good	12½	"
8	Very good	31	"
9	Excellent	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† hr obser ations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

THURSDAY, 16th JULY, 1931.

No. 25,438

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

Dist.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	999.7	+3.4	NNW	4	ir$_o$	62	75	7	6	1	-	4-6	9+	1500
	Croydon	999.5	+2.6	WNW	4	r$_o$6	59	95	6	5	2	-	9	9+	800
	S. Farnborough	1000.4	+2.6	NNW	3	r$_o$r$_o$	60	85	7	6	2	-	4-6	10	2500
	Winchester	1001.4	+2.6	NW	3	c/pr	60	95	6	9	2	-	7-8	10	1500
	Boscombe Down	1001.4	+2.2	WNW	4	c	65	75	6	8	-	-	9+	9+	1500
	Calshot, S'thmtn	1001.4	+2.2	W'N	4	c/r	62	85	6	5	2	-	7-8	10	1500
	Dungeness	01.4	*	SW	3	iR	*	*	5	6	-	*	9+	9+	1500
	Lympne	999.8	+2.0	W	4	pr	58	95	6	5	-	-	10	10	1500
2	Shoeburyness	999.5	+2.6	WNW	2	ir	61	95	6	6	2	-	7-8	10	1500
	Felixstowe	999.4	+2.4	NNW	3	c/r r$_o$	61	95	8	8	1	-	4-6	10	1500
	Gorleston	999.9	+1.4	NNW	3	0	60	95	6	6	-	-	10	10	1500
	Cranwell	999.7	+1.8	NNW	3	c/r	58	95	7	9	-	-	9+	9+	1500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1001.4	+1.8	NNE	3	c/p	60	75	6	6	2	-	4-6	10	2500
	Upper Heyford	1001.0	+2.6	NNW	4	r$_o$r$_o$	59	85	6	6	2	-	7-8	10	800
	Leafield	1000.8	+1.4	N'W	4	ir$_o$	60	85	7	9	2	-	4-6	9+	2500
4	Ross-on-Wye	1001.7	+1.6	NW'N	4	c/pr	66	75	7	3	6	3	4-6	7-8	4000
5	Portland Bill	1002.9	+2.0	W'N	5	c	61	85	8	8	7	-	4-6	7-8	1500
	Plymouth	1005.5	+2.2	NNW	4	c/pr	63	75	8	9	3	-	9	9+	1500
	Falmouth	1008.1	+1.4	N.W	5	q	61	85	8	1	3	-	2-3	7-8	4000
	Scilly (St. Mary's)	1008.9	+2.4	NNW	6	c	61	85	7	8	-	-	7-8	7-8	4000
	Guernsey	1006.0	+2.4	W	5	bc	62	85	7	8	4	-	4-6	4-6	2500
6	Pembroke	1005.3	+2.2	NW	3	bc	61	85	8	1	6	-	1	4-6	2500
7	Holyhead	1005.2	+2.2	NNW	4	pr$_o$	59	85	6	5	3	-	7-8	9+	5700
	Chester (Sealand)	1002.3	+1.8	NNW	4	c	61	85	6	3	-	-	9	9	2500
8	L'pool (Bidston)	1002.9	+1.0	N'W	4	iR	58	95	8	9	1	-	7-8	9+	2500
9	Harrogate	1002.1	+1.4	NW	3	r$_o$r$_o$	57	95	6	6	2	-	9	10	2500
10	Spurn Head	998.9	+2	NNE	6	ir$_o$	60	95	6	6	2	-	7-8	10	2500
	Tynemouth	1002.8	+1.4	N	2	c	58	85	7	6	-	-	7-8	7-8	1500
11	Inchkeith	1004.8	+.8	ENE	2	c	61	95	8	7	6	-	4-6	7-8	2500
	Leuchars	1005.4	+.8	NE	2	c	61	75	7	7	-	-	10	10	1500
12	Renfrew	1005.2	+.8	N	1	c	64	75	7	8	-	8	7-8	9+	2500
	Eskdalemuir	1003.6	+1.0	NE'N	+	c	61	65	8	1	3	1	4-6	7-8	2500
13A	Tiree	1006.0	+1.2	NW	3	bc	59	85	8	1	6	-	2-3	4-6	4000
13B	Stornoway	1005.1	+.6	SSE	1	c	62	85	7	2	-	-	7-8	7-8	2500
15	Dalwhinnie	1004.0	0	SE	1	c	61	85	8	4	6	-	4-6	10	800
	Aberdeen	1005.4	+.6	NE	3	0	57	75	7	5	-	-	10	10	1500
16	Lerwick	1005.7	+.6	ESE	2	c	55	95	6	8	6	8	4-6	7-8	2500
		1007.0	+.6	ESE	1	bc	56	75	7	5	-	1	4-6	4-6	1500
17	Blacksod Point	1009.7	+2.0	NW	4	bc	62	65	9	5	6	-	2-3	4-6	2500
18	Malin Head	1006.4	+1.6	NW'N	4	c	57	95	7	5	1	-	7-8	10	2500
	Aldergrove	1005.3	+.8	NW	3	c	63	75	7	8	7	8	2-3	7-8	1500
	Donaghadee	1005.0	+1.2	N'W	2	c	57	95	7	5	2	-	7-8	9	1500
19	Birr Castle	1006.8	+1.4	NNW	3	c/pr	63	75	8	3	4	-	7-8	7-8	2500
20	Valentia Obsy.	1010.7	+1.8	NW'N	4	bc	62	75	9	8	-	4	2-3	4-6	2500
	Roches Point	1008.1	+1.8	N	4	c	63	75	8	5	-	-	7-8	7-8	2500

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

Dist.	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base. (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1004.1	+2.4	NW	2	c	62	75	6	9	2	7	4-6	10	1500	1	*
	Croydon	1003.6	+1.4	N'W	3	r$_o$r$_o$	61	95	6	5	2	-	7-8	10	1500	1	*
	S. Farnborough	1004.6	+2.8	WNW	2	r$_o$r$_o$	59	95	6	5	1	1	7-8	9+	1500	2	*
	Winchester	1005.4	+2.0	NW	3	c	58	85	7	5	1	-	4-6	7-8	4000	1	*
	Boscombe Down	1005.6	+2.6	N'W	3	pr	57	95	7	8	2	-	7-8	9+	1500	1	*
	Calshot, S'thmtn	1005.5	+2.2	W'N	4	pr$_o$	61	85	6	8	4	-	7-8	9+	1500	1	1
	Dungeness	*	*	W	5	r$_o$r$_o$	*	*	7	9	3	*	4-6	10	1500	*	3
	Lympne	1002.6	+2.6	W	4	ir$_o$	59	95	6	6	7	-	7-8	9+	1500	1	*
2	Shoeburyness	1002.4	+2.6	W'N	2	ir$_o$	60	85	8	6	2	-	4-6	10	1500	1	*
	Felixstowe	1000.7	+2.6	NW	4	c/r	60	85	8	5	2	-	7-8	10	1500	1	2
	Gorleston	998.1	+2.4	NNW	5	ir$_o$	59	95	6	6	-	-	10	10	1500	1	3
	Cranwell	1003.3	+2.4	NNW	3	c	60	85	8	9	2	-	9	10	1500	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1005.3	+2.0	NNE	4	ir$_o$	58	85	5	6	2	-	4-6	10	2500	1	*
	Upper Heyford	1005.0	+3.0	NNW	4	ir	59	85	6	6	2	-	9	10	800	1	*
	Leafield	1004.5	+2.6	NW	3	c	58	85	7	6	1	-	1	9	2500	1	*
4	Ross-on-Wye	1006.3	+2.0	W'N	2	c/r	57	95	7	9	-	-	9+	9+	2500	1	*
5	Portland Bill	1006.2	+1.2	W'N	5	bc	62	75	8	2	6	-	2-3	4-6	2500	0	4
	Plymouth	1009.2	+2.0	NW	4	c/p	61	85	8	9	-	-	9	9	1500	1	3
	Falmouth	1011.1	+1.2	WNW	5	q	62	85	8	2	3	-	2-3	4-6	4000	0	3
	Scilly (St. Mary's)	1011.7	+1.4	NW'W	6	bc	61	85	7	1	4	4	1	2-3	4000	0	4
	Guernsey	1009.6	+2.6	W	6	bc	61	75	7	8	4	-	4-6	4-6	4000	0	4
6	Pembroke	1008.0	+1.0	WNW	2	bc	61	85	8	1	4	1	2-3	4-6	4000	0	2
7	Holyhead	1007.6	+1.4	WNW	3	c	58	95	6	5	3	-	9	9+	5700	0	1
	Chester (Sealand)	1005.9	+1.8	WNW	4	c/r	61	85	7	5	7	-	4-6	9	2500	1	*
8	L'pool (Bidston)	1005.7	+1.2	NW	3	c/r	60	95	7	9	1	-	4-6	9+	2500	1	*
9	Harrogate	1003.3	+1.0	NNW	3	bc	60	75	7	3	-	9	2-3	4-6	2500	1	*
10	Spurn Head	1001.3	+.8	N	6	ir$_o$	59	95	6	3	2	-	7-8	10	2500	1	4
	Tynemouth	1004.5	+.8	N	2	c	56	85	7	6	-	-	10	10	1500	0	2
11	Inchkeith	1005.7	+.6	ENE	1	bc	58	95	8	5	8	-	2-3	4-6	1500	0	1
	Leuchars	1006.1	+.2	ENE	1	c	59	75	7	5	3	1	4-6	7-8	2500	0	*
12	Renfrew	1006.2	-.2	NNW	3	c	66	75	7	3	6	-	7-8	9+	4000	1	*
	Eskdalemuir	1005.8	+.8	NE	3	bc	63	65	8	1	-	1	2-3	4-6	2500	1	*
13A	Tiree	1007.7	+.8	NW	4	bc	57	85	8	5	6	-	2-3	2-3	2500	0	1
13B	Stornoway	1006.7	+.8	WNW	2	c	56	95	7	5	8	-	10	10	2500	0	1
15	Dalwhinnie	1007.0	+1.8	E	1	r	55	85	7	4	6	-	7-8	10	1500	1	*
	Aberdeen	1005.5	0	ENE	2	bc	56	95	6	5	-	1	2-3	2-3	1500	0	1
16	Lerwick	1006.3	+.2	-	0	F	54	95	1	5	-	-	10	10	1500	0	2
		1007.4	0	E	1	c	53	95	7	5	2	-	4-6	10	1500	0	*
17	Blacksod Point	1011.0	+.6	NW	3	c	59	75	9	5	-	-	9	9	2500	0	2
18	Malin Head	1008.7	+1.0	NW	4	c	57	85	8	7	-	-	9+	9+	2500	0	1
	Aldergrove	1007.9	+1.8	NW'N	3	c	57	85	8	5	-	-	9+	9+	1500	1	=
	Donaghadee	1007.1	+1.2	NW	2	bc	58	85	7	7	3	1	2-3	4-6	4000	0	1
19	Birr Castle	1009.0	+1.2	NNW	3	bc	64	65	8	8	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	1013.0	+.8	W'N	4	c	61	75	9	8	3	2	2-3	7-8	1500	0	2
	Roches Point	1010.1	+1.2	N	5	bc	64	65	9	3	-	4	2-3	4-6	1500	0	3

PAST 24 HOURS.

Dist.	Stations.	Weather. 7h.–13h. 15th (37)	Weather. 13h.–18h. 15th (38)	Weather. 18h. 15th to 1h. 16th (39)	Weather. 1h.–7h. 16th (40)
1	London (Kew)	cRcir$_o$	cr$_o$c	cr,rcm$_o$	cm$_o$
	Croydon	oRRcrr	cm$_o$r$_o$r$_o$	or$_o$r$_o$do	or,cm$_o$
	S. Farnborough	cr$_o$pr	cr$_o$r$_o$c	cp$_o$c	cbc
	Winchester	circ	cprER	cpr$_o$c,c	c
	Boscombe Down	cr$_o$r$_o$	cpr	cpr	cm$_o$
	Calshot, S'thmtn	RRr$_o$	cpr$_o$	rrcbc	bc
	Dungeness	p	p	*	bc
	Lympne	c/lrpr	crrr$_o$	r$_o$com$_o$	om$_o$r$_o$c
2	Shoeburyness	cpr$_o$	crrir$_o$	orr	orr
	Felixstowe	cprc/lr	cr$_o$tbrc	c	cbcm$_o$cm$_o$
	Gorleston	oiro	oir$_o$q	coir$_o$q	cm$_o$
	Cranwell	crrir	cir	pr bm$_o$	bom$_o$
3	Cardington	*	*	crc	cbc
	Birmingham	rrir$_o$	oir	or$_o$r	cbc
	Upper Heyford	or$_o$r$_o$	cir$_o$	or$_o$r$_o$c	bcc
4	Ross-on-Wye	cir$_o$	ir$_o$c	tr$_o$c	cbc
5	Portland Bill	c$_o$pc$_o$tp	c$_o$tp$_o$c$_o$tRR	rorrcbc	bcbbc
	Plymouth	pr$_o$c	cbc	bcw	bcwbc
	Falmouth	bccpr$_o$	cpr$_o$bc	cbc	bcw
	Scilly (St. Mary's)	cp$_o$c$_o$bq	bcq	bcq	bcq
	Guernsey	cbcc	cbc	bc	bcc
		bccbc	bccbc	bcco	o
6	Pembroke	c$_o$bc	bc	bc	bcc
7	Holyhead	r$_o$r$_o$cpro	ir$_o$c	ir$_o$ pr	bm$_o$wb$_o$c
	Chester (Sealand)	cPR	RtlRr$_o$	r$_o$c	cbcwm$_o$
8	L'pool (Bidston)	tliR	Rr$_o$c	cp$_o$cc	cbc
9	Harrogate	ferr	cr$_o$bc	bcb	c
10	Spurn Head	cimr	cir$_o$	c	oc
	Tynemouth	oc	c0	obc	bcc
11	Inchkeith	c	cbcb	bc	bcm$_o$w
	Leuchars	cir$_o$id$_o$	c⊕	co	opr$_o$oc
12	Renfrew	cir$_o$c	bcc	cp$_o$b	bw
	Eskdalemuir	cpd$_o$c	cbc	bc	bcowc
13A	Tiree	bcc	bc	bc	bccr
13B	Stornoway	bc$_o$z	bcc		c
15	Dalwhinnie	bc	r		r
	Aberdeen	c0	cbc	bc,c	c
16	Lerwick	oc$_o$o	c$_o$Ff	Ffc	cm$_o$nw
		cm$_o$bc	bcc	coido	om$_o$e
17	Blacksod Point	bc	bcc	c	prc
18	Malin Head	cbcc	cbcc	c bcc	cpr$_o$cjp
	Aldergrove	bcc	cbcc	c	cwc
	Donaghadee	cr$_o$c	cbc	bcc	c
19	Birr Castle	cpr	cbc	bc	bcc
20	Valentia Obsy.	bc	bccbcc	c	cp$_o$c
	Roches Point	cp$_o$c	cbcv	bcvc	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.
f$_s$, fog over sea (coast station).
f$_g$, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
k$_s$, 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).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

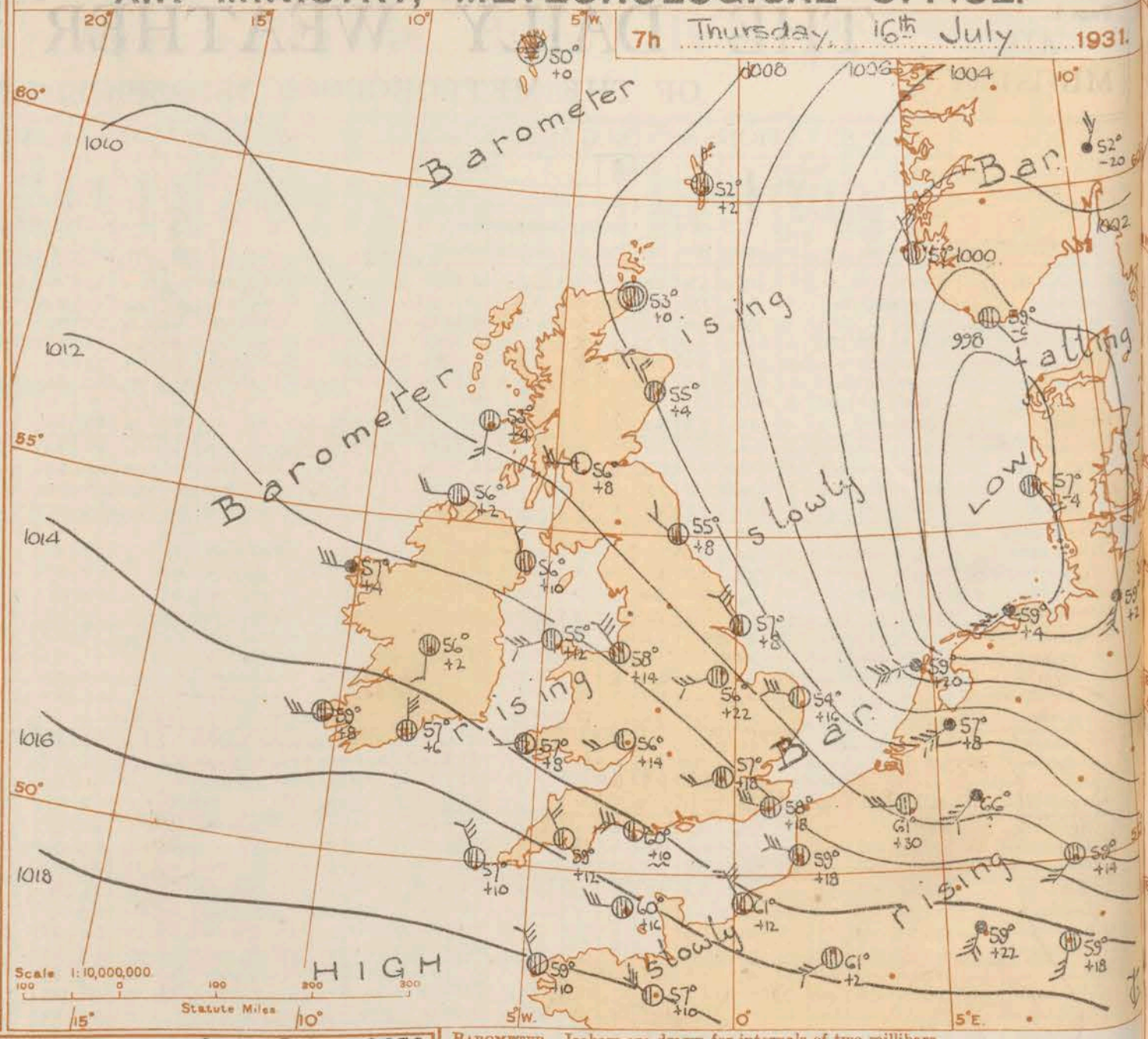
REPORTS from HEALTH RESORTS for 15th JULY, 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 14th to 9h. 15th	Temperature. Max. 9h.—17h. 15th	Rainfall. Night. 17h. 14th to 9h. 15th	Rainfall. Day. 9h.—17h. 15th	Sunshine. Sunrise to 17h. 15th	Sunshine. Sunrise to Sunset. 14th
1	Tunbridge W.	oro	ocorc	51	61	12	4	0.5	0.5
	Bournemouth	cobc	beco	55	69	37	-	3.5	0.0
	Ventnor ...	orfow	ocdru	54	66	11	1	1.6	0.3
	Southsea ...	or	octlp	56	65	20	4	0.4	0.0
	Bognor Regis	ro	obertl	56	64	13	3	0.3	0.8
	Littlehampton	cr.ip	cipc	53	63	15	3	0.1	0.9
	Worthing ...	orcir	criR	54	64	14	5	0.4	0.7
	Brighton ...	ber	rcber	55	65	15	7	0.9	0.5
	Eastbourne†	r.r.c	oir.o	55	63	9	1	0.8	0.5
	Hastings† ...	opro	opor	55	62	12	2	0.7	0.9
	Folkestone ...	rcoir	coir	56	63	19	6	1.7	2.3
	Dover... ...	c	ortc	56	64	19	1	1.6	1.9
	Deal	cbcc	bcor	56	67	21	3	2.2	3.9
	Ramsgate ...	ctr	rcrc	56	65	16	6	1.8	4.3
	Margate ...	bcr	bcr	56	67	26	3	1.4	4.2
2	Southend ...	coP	oP	56	66	15	11	3.7	2.5
	Maldon ...	bcc	corc	52	67	22	7	1.5	2.5
	Clacton-on-Sea	cbctlr	crc	57	67	23	10	3.4	5.2
	Dovercourt ...								
	Lowestoft ...	Roc	cord	57	63	15	1	1.6	7.5
	Skegness ...	ror	r	55	60	16	1	0.0	8.8
	Mablethorpe	or	or	57	60	11	2	0.0	6.7
	Cleethorpes...	ord	or.o	56	60	18	0.3	0.0	3.4
3	Leamington S.	opr	opr	55	63	12	1	0.0	6.3
4	Cheltenham†	omcop	oirtl	54	63	9	3	0.0	2.7
5	Bath	cr	trc	56	64	8	3	0.2	3.0
	Weymouth ...	c	cm	55	68	13	-	1.6	0.1
	Jersey ...	r bc	bc	56	64	9	-	8.9	1.5
	Torquay ...	Rr r.p.	bcvbcb	55	68	19	-	6.1	0.0
	Penzance ...	bcpr	cpr	55	66	-	0.3	8.7	3.6
	St. Ives ...	c	b	56	62	Trace	-	5.0	3.7
	Bude	cpc	cbc	55	62	5	0.2	3.7	0.2
	Ilfracombe ...	bcb	bcb	56	63	7	-	7.3	0.0
6	Aberystwyth	cprc	cbc3o	56	63	1	-.	4.1	1.9
7	Llandudno ...	oc	co	57	61	2	-	0.2	5.6
	Colwyn Bay...	ro	o bco	56	62	5	-	0.0	7.3
	Rhyl	c	bcc	56	63	5	-	1.5	9.1
8	Wallasey ...	cfoltro	oRc	55	65	4	4	1.4	6.6
	Southport‖ ...	bcoltr	oraco	55	66	0.3	3	2.7	4.3
	Blackpool ...	c	cpc	55	66	0.6	2	1.2	6.1
	Morecambe ...	cdpbc	cthr	57	66	1	3	1.2	6.8
9	Ilkley... ...	ro	rocbc	53	62	Trace	1	0.0	4.8
10	Berwick-on-T.	o	co	54	58	-	-	0.2	5.2
11	Dunbar ...	cm.	cm.	53	63	4	-	0.8	2.6
12	Douglas ...	cidc	cb	54	62	1	0.3	0.4	7.5

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Thursday, 16th July 1931.



Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
Temperature is given in degrees F.
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Moderate westerly wind: mainly cloudy, occasional local showers; moderate temperature.
7. North Wales 8. N.W. England 9. N. Midlands	Moderate westerly wind; cloudy, some showers; moderate temperature.
10. N.E. England 11. S.E. Scotland	As 1 - 6.
12. S.W. Scotland & Isle of Man	As 7 - 9.
13. A. W. Scotld. B. N.W. Scotland.	
14. Mid-Scotland	
15. N.E. Scotland	As 1 - 6.
16. Orkneys and Shetlands.	Light variable wind; cloudy, local drizzle and mist; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 7 - 9.

H.M. Stationery Office Press, Kingsway, W.C.2

GENERAL INFERENCE.

Pressure is high to south and southwest of the British Isles. Wind will be westerly and weather mainly cloudy with local showers.

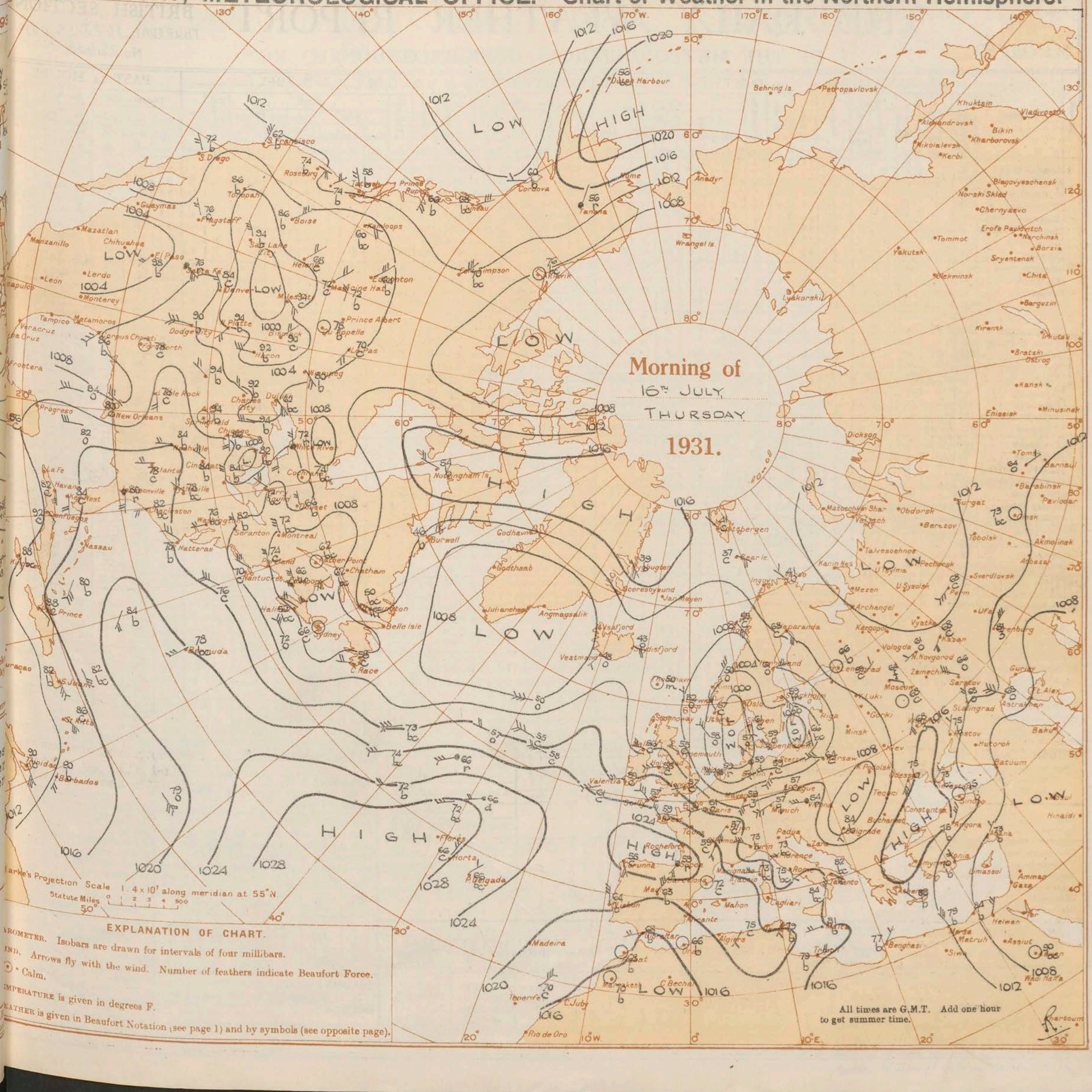
FURTHER OUTLOOK.

Similar.

Forecasts issued at 0910 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

THURSDAY, 16th JULY, 1931.

No. 25,438.

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

Dist.	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)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1009.2	+14	W	3	id.	57	95	6	5	-	-	10	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1010.6	+16	W	3	b	56	95	7	5	-	-	1	1	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1008.1	+18	W'N	3	o	56	95	5	5	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1005.0	+18	NW	3	o	55	95	7	6	-	-	10	10	2500
	Cranwell ...	240	1007.6	+14	W	2	b	54	95	6	5	-	-	1	1	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1011.6	+12	W	4	bc	58	95	8	4	4	-	2-3	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1014.4	+10	WNW	4	q	58	95	8	5	-	-	2-3	2-3	4000
	Scilly(St.Mary's)	163	1015.2	+8	NW	5	bc	57	95	8	2	-	-	2-3	2-3	4000
	Guernsey ...	175	1013.6	+12	W	3	o	58	95	6	5	-	-	10	10	2500
6	Pembroke ...	142	1011.4	+6	W'N	3	bc	59	85	8	6	5	1	2-3	4-6	2500
7	Holyhead ...	26	1010.7	+8	NNW	2	b	56	95	6	4	-	-	1	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1005.1	+6	NNW	5	c	56	95	7	-	2	-	0	10	-
	Tynemouth ...	87	1006.2	+4	WNW	2	bc	52	85	7	5	-	-	2-3	2-3	1500
11	Inchkeith ...	190	1006.7	+4	W	1	bc	53	95	7	6	8	-	2-3	4-6	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34														
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1007.3	+2	-	0	c	53	95	7	5	2	-	7-8	10	1500
16	Lerwick ...	54	1007.7	0	ANE	3	o/d.	49	95	7	6	-	-	10	10	800
17	Blacksod Point	18	1011.6	+2	W	3	c	57	85	6	5	-	-	10	10	<150
18	Malin Head ...	52	1010.2	+2	WSW	2	c	55	95	8	5	-	-	9+	9+	4000
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1013.1	+6	W	5	o	58	95	8	5	-	-	10	10	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Dist.	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)...	1012.9	+20	W'S	2	c	58	85	6	5	1	-	7-8	10	2500	1	*
	Croydon ...	1012.5	+18	W'S	2	c	57	95	6	5	3	-	7-8	9+	800	1	*
	S. Farnborough	1012.9	+18	W	2	c	58	95	6	5	3	-	4-6	9+	7200	1	*
	Winchester ...	1013.4	+10	W	2	c	57	95	7	5	-	-	10	10	4000	1	*
	Boscombe Down	1013.5	+16	WNW	3	c	57	95	6	5	-	-	9+	9+	5700	1	*
	Calshot,(S'thmtn)	1013.5	+10	W	3	c	57	95	7	5	3	-	7-8	9+	4000	1	1
	Dungeness ...	*	*	W	2	c	*	*	7	8	7	*	4-6	7-8	2500	*	1
	Lympne ...	1011.5	+18	WNW	3	c	58	85	6	5	3	-	7-8	9+	800	1	*
2	Shoeburyness	1011.7	+12	W'N	3	b	60	85	6	4	4	-	Tr.	1	5700	1	*
	Felixstowe ...	1010.7	+14	WNW	3	bc	60	85	6	7	-	-	4-6	4-6	1500	1	1
	Gorleston ...	1009.6	+16	WNW	4	bc	56	85	6	-	3	-	0	4-6	-	0	2
	Cranwell ...	1010.7	+22	W'S	4	c	56	85	6	5	3	-	9+	10	2500	1	*
3	Cardington ...	1011.4	+20	NNE	3	bc	57	85	7	4	6	1	4-6	4-6	2500	*	*
	Birmingham ...	1012.6	+14	NW	4	bc	55	85	7	1	3	-	2-3	2-3	2500	1	*
	Upper Heyford	1013.2	+20	WNW	3	c	58	85	6	5	-	-	9	9	1500	1	*
	Leafield ...	1012.3	+14	NNW	4	bc	58	85	7	1	4	-	2-3	2-3	2500	1	*
4	Ross-on-Wye ...	1012.9	+14	W	2	bc	59	85	8	1	4	-	Tr.	2-3	4000	1	*
5	Portland Bill....	1014.4	+10	W'N	5	bc	60	85	8	2	6	9	2-3	4-6	2500	0	4
	Plymouth ...	1013.7	+12	NNW	2	bc	59	85	7	8	6	1	2-3	4-6	2500	1	2
	Falmouth ...	1017.2	+6	WNW	2	c	58	85	8	3	3	-	2-3	7-8	4000	0	1
	Scilly(St.Mary's)	1017.3	+10	NW	4	c	57	95	8	8	6	-	4-6	7-8	4000	0	3
	Guernsey ...	1016.5	+16	W	3	o	60	85	7	5	-	-	10	10	2500	0	3
6	Pembroke ...	1013.9	+8	W	1	c	57	85	8	1	6	1	2-3	7-8	2500	0	2
7	Holyhead ...	1012.6	+12	W'S	4	c	55	85	8	5	-	-	9+	9+	4000	1	1
	Chester (Sealand)	1012.3	+14	WNW	4	c	58	75	8	5	-	-	7-8	7-8	1500	1	*
8	L'pool (Bidston)	1012.0	+8	WNW	4	bc	55	85	8	3	-	-	4-6	4-6	4000	0	*
9	Harrogate ...	1010.0	+10	SSW	3	c	55	95	6	6	8	-	9	9+	2500	1	*
10	Spurn Head ...	1008.4	+8	NW'N	4	c	57	95	6	4	2	-	7-8	9+	4000	0	3
	Tynemouth ...	1008.8	+8	WNW	1	c	55	95	6	6	-	-	7-8	7-8	1500	0	2
11	Inchkeith ...	1008.4	+8	WSW	3	c	53	95	6	5	6	-	7-8	9	1500	0	1
	Leuchars ...	1008.5	+6	WSW	2	c	57	95	7	5	3	-	7-8	9+	1500	0	*
12	Renfrew ...	1010.0	+8	W	2	b	56	85	8	1	-	-	Tr	Tr	4000	1	*
	Eskdalemuir ...	1009.4	+10	WNW	2	c	54	85	7	5	-	-	10	10	1500	1	*
13A	Tiree	1009.9	+4	SSW	2	c/r	53	95	7	5	2	-	4-6	9+	1500	1	1
13B	Stornoway ...	1008.5	+2	WNW	1	c	54	85	9	7	6	-	4-6	7-8	2500	0	1
15	Dalwhinnie ...	1009.6	+2	SE	1	c	52	85	7	5	1	-	7-8	10	800	1	*
	Aberdeen ...	1008.3	+4	NW	2	o	55	85	7	5	-	-	10	10	800	0	1
	Wick	1007.5	0	-	0	c	53	95	6	9	-	-	10	10	1500	1	*
16	Lerwick ...	1007.7	+2	N	1	o	52	95	6	5	-	-	10	10	450	0	*
17	Blacksod Point	1012.1	+4	W	3	pr	57	95	8	6	-	-	10	10	150	1	2
18	Malin Head ...	1010.7	+2	W	2	cjp	56	85	8	8	-	-	9+	9+	4000	0	1
	Aldergrove ...	1012.0	+3	WSW	2	c	56	85	8	5	-	-	9+	9+	4000	1	*
	Donaghadee ...	1011.3	+10	NW	1	c	56	85	8	5	2	-	7-8	9	2500	0	0
19	Birr Castle ...	1012.7	+2	SSW	1	c	56	95	8	5	-	-	10	10	2500	1	*
20	Valentia Obsy.†	1013.2	+3	W'S	3	c	59	85	8	8	5	-	4-6	9	1500	1	2
	Roches Point...	1014.6	+6	N	2	c	57	85	8	5	9	+	2-3	7-8	1500	0	2

PAST 24 HOURS.

Dist.	Stations	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 15th Hrs. (36)
1	London (Kew)...	63	56	55	3	1	0.0
	Croydon ...	61	56	55	8	1	0.0
	S. Farnborough	65	52	45	1	0.1	0.8
	Winchester ...	62	52	49	15	Tr.	0.3
	Boscombe Down	65	51	47	1	1	*
	Calshot,(S'thmtn)	66	53	50	5	5	1.0
	Dungeness ...	62	56	*	14	1	*
	Lympne ...	65	55	55	5	0.3	1.4
2	Shoeburyness	67	54	52	8	1	+2
	Felixstowe ...	66	56	54	3	-	2.1
	Gorleston ...	62	54	52	1	0.3	0.0
	Cranwell ...	61	52	50	4	0.1	0.5
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	62	53	49	3	0.6	0.0
	Upper Heyford	63	53	48	0.5	0.4	*
	Leafield ...	62	52	49	1	0.3	0.6
4	Ross-on-Wye ...	67	54	49	24	4	3.0
5	Portland Bill....	63	57	*	Tr.	-	*
	Plymouth ...	64	57	54	0.2	-	4.3
	Falmouth ...	64	58	*	Tr.	-	9.3
	Scilly(St.Mary's)	64	56	*	-	-	14.0
	Guernsey ...	64	57	55	-	-	10.7
6	Pembroke ...	62	56	*	-	-	10.4
7	Holyhead ...	61	53	48	0.1	0.3	0.8
	Chester (Sealand)	63	53	50	15	Tr.	0.2
8	L'pool (Bidston)	62	53	52	5	Tr.	1.4
9	Harrogate ...	60	50	42	3	-	1.8
10	Spurn Head ...	60	56	*	1	Tr.	0.3
	Tynemouth ...	59	50	50	-	-	*
11	Inchkeith ...	62	52	46	-	-	7.2
	Leuchars ...	61	54	50	Tr.	Tr.	1.4
12	Renfrew ...	68	50	42	0.1	Tr.	4.2
	Eskdalemuir ...	65	46	43	Tr.	-	7.5
13A	Tiree	59	45	36	-	0.6	12.1
13B	Stornoway ...	62	52	*	-	Tr.	4.8
15	Dalwhinnie ...	64	51	46	3	3	2.5
	Aberdeen ...	59	54	53	-	-	1.2
	Wick	56	52	*	-	Tr.	*
16	Lerwick ...	58	49	*	-	Tr.	1.7
17	Blacksod Point	62	54	*	-	0.3	*
18	Malin Head ...	59	53	*	-	1	2.6
	Aldergrove ...	65	47	35	-	Tr.	5.4
	Donaghadee ...	61	49	*	1	-	*
19	Birr Castle ...	67	52	46	3	-	6.3
20	Valentia Obsy.†	63	56	55	-	Tr.	11.9
	Roches Point...	65	54	*	0.1	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	cR,r,	cn,c	cr,rcm,	63	56	55	3	1	0.0	*	*	7
CROYDON	217	oRRcrr	cm,r,r,	or,rd,m,	61	56	55	8	1	0.0	*	*	6
GREENWICH (Royal Observatory) ...	149	cpdr	cirid	cddd,c	64	56	53	3	0.3	0.0	81	73	6
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	64	57	56	4	*	0.1	75	72	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	0.1	*	*	*
CAMDEN SQUARE	110	cdcp	cp	*	62	57	56	2	-	*	*	71	*
KENSINGTON	80	cor	cor	*	63	57	55	5	2	0.1	At 18h. 100	76	*
HAMPSTEAD OBSERVATORY	450	or	or	*	61	53	48	3	0.3	0.0	*	75	*

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 15th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 16th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1007.1	SW	3	c	64	1015.8	WSW	4	c	61
BRUSSELS						1010.2	W	3	c	61
BERLIN	1005.2	SW	2	r,r,	61	1003.6	SSW	4	c	59
ZÜRICH	1010.3	SW	1	c	55	1017.2	W	3	c/r	55
ROME						1014.5	S	1	bc	75

Past 24 Hours.

Stations	Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
PARIS	70	50	Tr.	-
BRUSSELS		59		5
BERLIN	70	55	4	0.3
ZÜRICH	66	54	16	1
ROME		72		-

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
0.5	11h-12h 15th	0.3	1h.-4h. 16th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.2	23h. 15th	0.1	2h. 10th

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 17th July 1931.

No. 25439

Dist.	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 16th July: Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	1015.1	+10	W'S	3	c	66	55	8	8	3	-	4-6	9+	4000
	Croydon	1014.5	+8	W'S	4	c	67	65	8	8	7	-	7-8	9+	2500
	S. Farnborough	1014.6	+10	WNW	2	c/pr	69	65	8	2	8	1	4-6	7-8	2500
	Winchester	1015.4	+10	WNW	4	c	67	55	8	8	-	9	4-6	7-8	2500
	Boscombe Down	1015.8	+10	WNW	4	c	65	65	7	7	-	1	4-6	9	5700
	Calshot, S'thmtn	1016.2	+10	WSW	4	pr$_o$	62	85	8	8	3	-	4-6	9	2500
	Dungeness	*	*	NW	4	c	*	*	7	9	7	*	4-6	9	2500
	Lympne	1014.1	+12	WSW	4	c	68	65	7	7	3	-	7-8	7-8	4000
2	Shoeburyness	1014.0	+10	W'N	3	bc	70	55	7	1	7	-	4-6	4-6	4000
	Felixstowe	1013.6	+14	W	3	bc	69	55	8	1	-	-	4-6	4-6	2500
	Gorleston	1012.2	+20	W	3	bc	65	75	6	8	-	-	4-6	4-6	2500
	Cranwell	1012.9	+12	W'N	4	c	64	65	7	8	-	-	7-8	7-8	2500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1014.4	+10	WNW	3	c	61	55	8	6	3	-	4-6	7-8	2500
	Upper Heyford	1014.7	+6	WNW	4	c	62	55	9	7	-	-	7-8	7-8	2500
	Leafield	1014.5	+10	WNW	4	c	63	65	9	7	-	1	7-8	7-8	5700
4	Ross-on-Wye	1015.0	+10	WNW	3	c	63	65	9	8	-	-	9+	9+	4000
5	Portland Bill	1017.0	+10	SW'W	5	c	60	85	8	4	4	2	4-6	9	2500
	Plymouth	1017.9	+10	W	3	c/p	62	85	8	8	-	-	9+	9+	1500
	Falmouth	1018.8	+6	WNW	3	c	62	75	8	8	3	-	4-6	7-8	4000
	Scilly (St. Mary's)	1019.1	+8	W	3	bc	63	85	7	7	3	-	2-3	4-6	4000
	Guernsey	1019.3	+14	WSW	4	c	63	75	8	8	6	-	7-8	9+	2500
6	Pembroke	1016.0	+8	W	2	c	61	85	8	4	6	-	4-6	7-8	2500
7	Holyhead	1014.4	+8	WSW	4	c	61	75	9	8	-	9	7-8	9	2500
	Chester (Sealand)	1014.4	+10	NNW	4	c	61	65	8	8	-	-	9+	9+	2500
8	L'pool (Bidston)	1014.2	+4	NNW	4	c	59	75	9	5	1	-	9+	9+	4000
9	Harrogate	1011.6	+6	SSW	4	bc	64	65	9	1	-	-	2-3	2-3	4000
10	Spurn Head	1010.9	+2	NNW	4	bc	66	75	6	4	-	-	4-6	4-6	4000
	Tynemouth	1009.5	+4	WNW	3	bc	67	65	7	1	-	-	2-3	2-3	4000
11	Inchkeith	1009.3	0	WSW	3	bc	60	65	8	1	-	-	4-6	4-6	4000
12	Leuchars	1008.7	-2	WNW	3	c	65	65	8	2	3	-	9	9	2500
	Renfrew	1011.2	+12	W	3	c	62	65	8	7	-	-	9	9	4000
	Eskdalemuir	1011.0	+10	W	4	c	59	65	9	5	-	-	10	10	4000
13A	Tiree	1010.4	+4	SW	3	c	59	85	8	7	6	-	2-3	7-8	2500
13B	Stornoway	1008.8	0	SW	3	c/p	59	65	9	3	2	-	7-8	9+	2500
15	Dalwhinnie	1009.9	0	SW	2	c	59	65	8	4	-	-	10	10	4000
	Aberdeen	1009.1	+6	ENE	2	o/r	58	85	7	6	-	-	10	10	1500
16	Lerwick	1008.3	+2	NNW	2	c	57	75	8	8	2	-	7-8	10	1500
17	Blacksod Point	1007.4	0	NNE	1	c	53	85	8	5	2	-	4-6	10	1500
18	Malin Head	1012.7	+6	SW	3	c	61	85	8	5	-	-	9+	9+	800
	Aldergrove	1011.2	+2	W	3	c	59	95	8	8	3	-	4-6	9+	4000
	Donaghadee	1012.2	-2	SW	3	c	60	75	8	7	7	-	2-3	9+	1500
19	Birr Castle	1012.1	+2	WNW	1	c	60	75	8	5	-	-	9+	9+	1500
20	Valentia Obsy.	1013.7	+2	SW	3	c	62	85	8	6	2	-	7-8	10	4000
	Roches Point	1016.8	+10	WSW	3	c	60	95	8	5	-	-	10	10	800
		1016.0	+8	SW	3	c	63	75	9	3	-	-	7-8	7-8	2500

Dist.	Stations.	OBSERVATIONS at 18h. G.M.T. 16th July: Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	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)	1015.4	+6	W'N	2	c	66	55	8	8	-	-	9	9	4000	1	*
	Croydon	1015.1	+2	NW	4	c	65	65	8	8	7	-	4-6	7-8	4000	1	*
	S. Farnborough	1015.3	+2	W	3	c	66	65	8	8	8	1	4-6	7-8	2500	0	*
	Winchester	1016.3	+2	WNW	3	c	62	75	8	5	1	-	7-8	9	2500	1	*
	Boscombe Down	1016.0	+2	WNW	3	c	62	75	8	7	7	-	7-8	9	4000	0	*
	Calshot, S'thmtn	1016.6	+2	W'S	4	c	64	75	8	8	3	-	4-6	7-8	2500	1	1
	Dungeness	*	*	SW	5	bc	*	*	7	1	6	*	2-3	4-6	4000	*	3
	Lympne	1015.0	+4	WSW	4	bc	65	65	8	1	3	8	1	2-3	2500	0	*
2	Shoeburyness	1014.4	0	W'N	3	c	67	55	8	8	-	-	7-8	7-8	4000	0	*
	Felixstowe	1014.1	+2	WNW	3	bc	69	55	8	7	3	-	4-6	4-6	4000	0	1
	Gorleston	1012.3	0	WNW	3	bc	69	55	7	1	-	-	2-3	2-3	4000	0	2
	Cranwell	1013.8	+4	W	3	c	61	65	8	8	3	-	7-8	9+	4000	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1014.6	-2	WNW	3	c	61	65	8	6	1	-	4-6	9	2500	1	*
	Upper Heyford	1015.1	+2	WSW	3	bc	63	75	8	7	3	-	4-6	4-6	4000	1	*
	Leafield	1014.5	0	W'S	4	bc	62	75	8	7	3	9	1	4-6	4000	1	*
4	Ross-on-Wye	1015.2	0	W'S	3	c/p	61	85	8	8	-	-	9+	9+	4000	1	*
5	Portland Bill	1017.2	-6	SW'W	5	c	60	85	8	4	4	8	4-6	9	2500	0	4
	Plymouth	1018.1	+2	WSW	4	bc	60	85	8	3	3	-	4-6	4-6	1500	1	2
	Falmouth	1018.9	-4	WSW	4	c	61	95	8	2	8	-	4-6	7-8	4000	0	2
	Scilly (St. Mary's)	1019.3	-2	W	4	dr$_o$	60	95	7	4	-	-	9	9	2500	0	3
	Guernsey	1019.0	0	WSW	3	c	62	85	7	5	-	-	9+	9+	2500	0	3
6	Pembroke	1015.6	-4	WSW	4	c	59	95	8	4	8	-	4-6	7-8	1500	0	2
7	Holyhead	1013.3	-10	SSW	4	ir$_o$	58	85	8	8	2	-	4-6	10	4000	1	1
	Chester (Sealand)	1013.9	-6	WSW	2	c	62	65	8	5	-	-	9+	9+	5700	1	*
8	L'pool (Bidston)	1013.4	-4	W	3	c	60	75	9	5	-	-	9+	9+	4000	0	*
9	Harrogate	1012.4	0	SW	5	c	60	65	9	2	3	9	1	7-8	4000	1	*
10	Spurn Head	1011.9	0	WNW	4	bc	62	75	7	-	2	1	0	4-6	-	0	3
	Tynemouth	1010.2	0	W	3	c	62	65	7	4	-	-	7-8	7-8	4000	0	2
11	Inchkeith	1009.6	-4	WSW	3	c	57	75	8	8	6	-	4-6	7-8	2500	0	2
12	Leuchars	1009.0	0	W	4	c	62	55	8	7	5	1	4-6	9	2500	0	*
	Renfrew	1010.9	-6	W	2	c	59	75	8	7	-	-	9+	9+	4000	1	*
	Eskdalemuir	1010.9	-2	SW'W	4	c	57	75	7	5	-	-	10	10	2500	1	*
13A	Tiree	1009.7	-6	SW	2	c	58	95	8	7	2	-	4-6	9	2500	0	1
13B	Stornoway	1008.7	0	SW	1	c	58	75	9	8	7	5	4-6	9+	1500	1	1
15	Dalwhinnie	1010.5	+2	S	2	c	58	65	7	3	2	-	7-8	10	800	0	*
	Aberdeen	1008.6	-6	SSE	2	c	57	85	6	6	7	-	10	10	1500	1	1
16	Lerwick	1008.1	-4	NW	3	c	57	75	8	5	9	8	4-6	7-8	2500	0	2
17	Blacksod Point	1006.6	-2	N'W	1	c	52	85	8	5	2	-	4-6	10	1500	0	*
18	Malin Head	1013.4	+6	SW	5	c	59	75	9	8	-	-	10	10	800	0	2
	Aldergrove	1010.5	-6	WSW	3	c/p	58	95	7	9	-	-	9+	9+	2500	1	1
	Donaghadee	1011.0	-10	SW	2	c/pr	59	95	8	9	7	-	4-6	9+	1500	1	*
19	Birr Castle	1010.8	-8	-	0	ir$_o$	63	75	7	5	-	-	9	9	1500	1	0
20	Valentia Obsy.	1013.6	-2	WSW	3	c	61	85	8	8	-	-	9+	9+	2500	1	*
	Roches Point	1017.4	+2	W'N	4	c	60	75	8	5	-	-	10	10	1500	1	3
		1015.2	-10	NW	3	c	63	75	9	9	-	2	4-6	7-8	2500	0	3

PAST 24 HOURS. WEATHER.

Dist.	Stations.	7h.—13h. 16th (37)	13h.—18h. 16th (38)	18h. 16th to 1h. 17th (39)	1h.—7h. 17th (40)
1	London (Kew)	bccy	bcycy	c	c
	Croydon	cm$_o$bc	cprbc	bcb	bcm$_o$c
	S. Farnborough	cbcpr$_o$	bcebc	bcwcb	bbcc
	Winchester	cbcy	bccy	cbc,c	c
	Boscombe Down	cm$_o$c	c	cbc	bccir$_o$
	Calshot, S'thmtn	cpr$_o$	cpr$_o$	bcb	b,c
	Dungeness	p	bc	*	p
	Lympne	cm$_o$c	cprbc	cbc	bcmcr$_o$
2	Shoeburyness	bccbc	bcc	c	bccr$_o$
	Felixstowe	bcm$_o$cbcy	bcycy	bcjc	c
	Gorleston	bcc	bc	bc	bcc
	Cranwell	c$_3$o bc	bccbc	bccpr	cpr$_o$
3	Cardington	*	*	cbc	c
	Birmingham	bc	cbcc	c	c
	Upper Heyford	bc	ccpo	cm$_o$	cm$_o$w
	Leafield	bc	cjpbc	bcw	bcc
4	Ross-on-Wye	bccv	cvc	p$_o$c	c
5	Portland Bill	bcc	c	c	c
	Plymouth	bccpr	cbcpr$_o$	bccpr$_o$	co
	Falmouth	cpoq	cbc	bcidm$_o$	bcc
	Scilly (St. Mary's)	cbc	bc	idrcbc	cidp$_o$
	Guernsey	cbcc	cbcc	ocbc	cold$_o$
6	Pembroke	c	cq	cq	cir$_o$
7	Holyhead	c	c	prc	bcc
	Chester (Sealand)	c	c	cir	c
8	L'pool (Bidston)	bccv	vcbcc	ccp$_o$c	cpr$_o$q
9	Harrogate	cb	bbc	bccr	bcp$_o$
10	Spurn Head	cbc	bc	bc	cpr
	Tynemouth	cbc	bcc	coir$_o$	cirbc
11	Inchkeith	cbc	c	cbc	cir$_o$
12	Renfrew	cpr$_o$	cvy	c	cr$_o$rir$_o$
	Eskdalemuir	bbccv	cv	c,pr$_o$	cpr$_o$bc
13A	Tiree	cwbbcc	bccyc	cdm	cirmbc
13B	Stornoway	c	c	codr	ovo
15	Dalwhinnie	cpr$_o$	c	od$_o$	c
	Aberdeen	bc	c		c
16	Lerwick	cr$_o$	cir$_o$	cm$_o$r$_o$	cir$_o$
17	Blacksod Point	om$_o$mc	c	c	cbc
18	Malin Head	om$_o$	c	c	coir$_o$
	Aldergrove	c	prcq	prqc	prc
	Donaghadee	cpr$_o$c	cirm$_o$cpr$_o$	cdsm$_o$cjp	cpr$_o$c
	Birr Castle	cido$_o$c	cpr$_o$R	cpr$_o$	C
19	Birr Castle	c	cir$_o$	rrirc	c
20	Valentia Obsy.	cp$_o$c	cpr	c	corr
	Roches Point	cid	c	cbcc	cp$_o$c
		cv	cp$_o$cv	cup$_o$c	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered).
c, generally cloudy.
d, drizzle.
e, wet air.
g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail.
i, intermittent.
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/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).
⊕, Solar halo.
☾, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

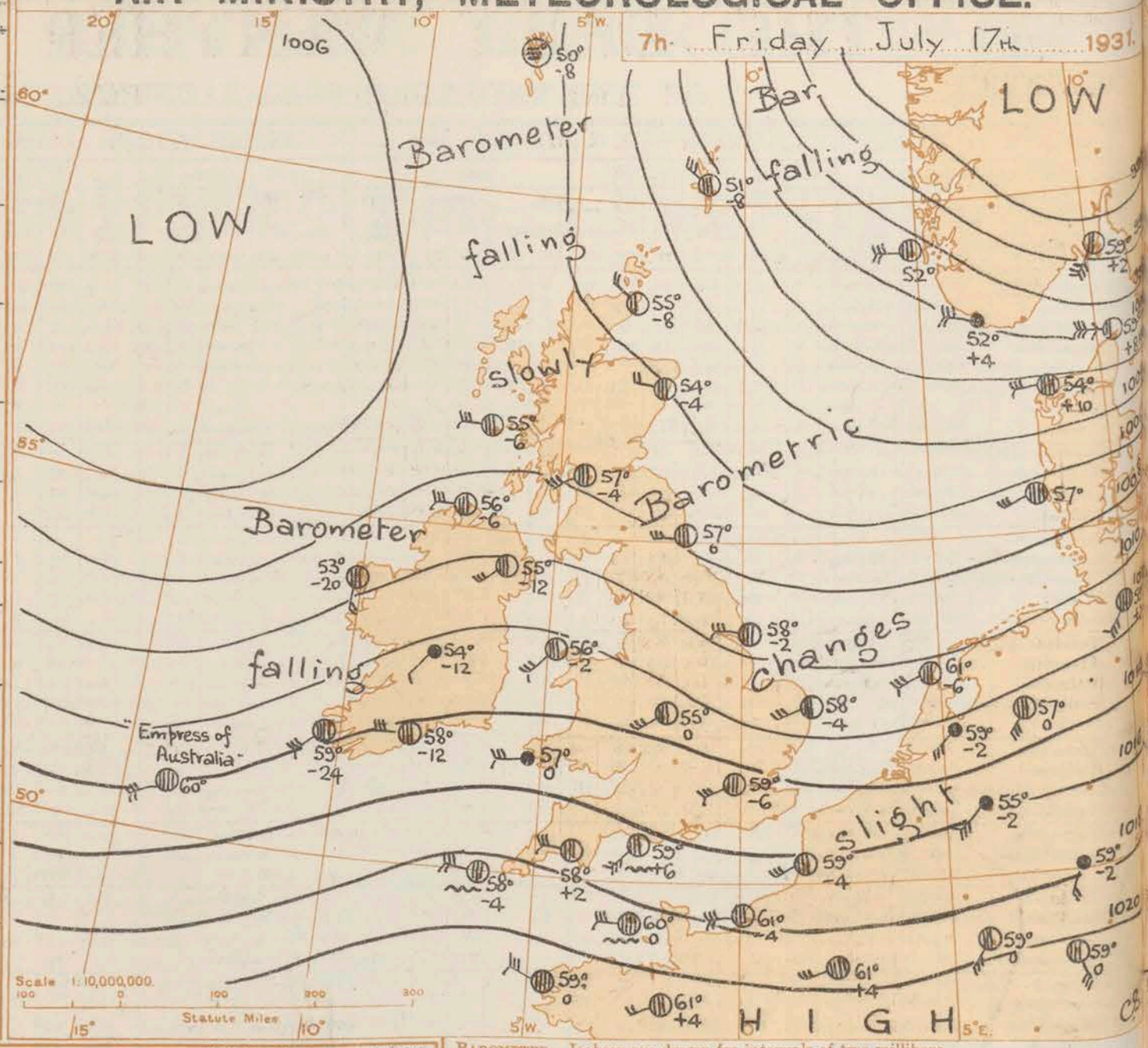
REPORTS from HEALTH RESORTS for 16th July 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 15th to 9h. 16th.	Temperature. Max. 9h.—17h. 16th.	Rainfall. Night. 17h. 15th to 9h. 16th.	Rainfall. Day. 9h.—17h. 16th.	Sunshine. Sunrise to 17h. 16th.	Sunshine. Sunrise to Sunset. 15th.
1	Tunbridge W.	copoc	cbc	55	69	5	1	4.4	0.5
	Bournemouth	bccbc	cbccb	54	69	-	-	5.5	4.8
	Ventnor ...	pbc	bcu	56	?	0.5	Trace	6.2	1.7
	Southsea ...	ocbc	bccpo	55	68	2	Trace	3.8	0.6
	Bognor Regis	bccro	bccbc	55	70	1	Trace	4.8	0.4
	Littlehampton	bcp	pbc	54	66	0.2	0.4	3.3	0.1
	Worthing ...	cor	cbc	55	66	0.5	0.5	2.9	0.4
	Brighton ...	bc	pcbc	56	65	0.3	Trace	5.4	0.9
	Eastbourne†	bcc	cbcb	57	66	-	-	4.4	0.8
	Hastings† ...	cbcc	cbcb	55	68	2	-	5.6	0.7
	Folkestone ...	ocbc	cpbc	56	70	1	6	6.0	1.7
	Dover... ...	copc	copbc	56	68	6	4	4.9	1.6
	Deal	coc	bcop	56	72	3	0.3	4.0	2.2
	Ramsgate ...	cbc	bcc	56	70	2	-	6.1	1.6
	Margate ...	cbc	bcc	59	71	0.6	-	6.6	1.4
2	Southend ...	cbc	cro	55	71	3	Trace	7.9	3.7
	Maldon ...	bbcb	bbc	55	72	1	-	9.7	1.5
	Clacton-on-Sea	cbc	bcy	55	71	-	-	9.4	3.4
	Dovercourt ...								
	Lowestoft ...	idc	cbc	54	67	0.3	-	7.5	1.6
	Skegness ...	mombc	bcc	52	68	Trace	-	5.6	0.0
	Mablethorpe	ocbcm	bccmo	51	68	Trace	-	5.6	0.0
	Cleethorpes ...	omcb	bcb	53	68	-	-	5.0	0.1
3	Leamington S.	bc	bcc	53	66	4	-	8.5	0.0
4	Cheltenham†	coc	cbc	53	66	0.3	-	3.4	0.0
5	Bath	bc	bcc	66	68	0.3	-	6.5	0.2
	Weymouth ...	b	bcc	56	68	-	-	6.8	3.3
	Jersey ...	bc	bcc	59	65	-	-	5.3	9.7
	Torquay ...	bcc	bc	55	67	-	Trace	7.4	8.6
	Penzance ...	cb	b	56	67	0.5	-	5.4	11.0
	St. Ives ...	pr	b	57	65	1	0.3	6.6	7.4
	Bude	c	bc	59	65	0.1	-	5.0	5.9
	Ilfracombe ...	bccbc	bbc	58	65	-	-	6.9	9.9
6	Aberystwyth	cprc	c	57	63	0.5	-	0.7	4.8
7	Llandudno ...	c	c	55	63	-	-	2.1	0.2
	Colwyn Bay...	bcobc	c	53	65	-	-	2.6	0.0
	Rhyl								
8	Wallasey ...	bccbc	bbcc	54	64	-	-	4.1	1.4
	Southport‖ ...	oc	coco	56	64	-	-	4.9	2.8
	Blackpool ..	cbc	bcc	56	64	0.2in	-	5.7	1.3
	Morecambe ...	cbbc	bbc	56	63	-	-	6.8	1.6
9	Ilkley... ...	bc	cbc	50	64	-	-	6.1	0.3
10	Berwick-on-T.	ocbc	bccoc	50	65	-	-	2.8	0.2
11	Dunbar ...	cmo	cmo	51	66	-	-	6.4	2.5
12	Douglas ...	cb	cbc	51	64	Trace	-	3.8	0.8

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-6h. ‖ Min. Temp. 17h.-9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday, July 17th. 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm = ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ϒ Thunder. ⱦ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 17th July, 1931.
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	Wind southwest to west, moderate to fresh or strong; cloudy, occasional rain; some bright intervals tomorrow; moderate temperature.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southwest, veering west to northwest, moderate to fresh or strong: cloudy, rain at times; showers and bright intervals tomorrow: moderate temperature.
13. A. W. Scotland B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind variable or southerly, light or moderate, then freshening from northwest; cloudy, some rain; showers and bright intervals tomorrow; moderate or rather low temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 11 -13A.

GENERAL INFERENCE.

A depression northwest of Ireland is moving rapidly eastward. Wind will be southwest to west, fresh or strong at exposed places and weather will be cloudy with occasional rain especially in the North.

FURTHER OUTLOOK.

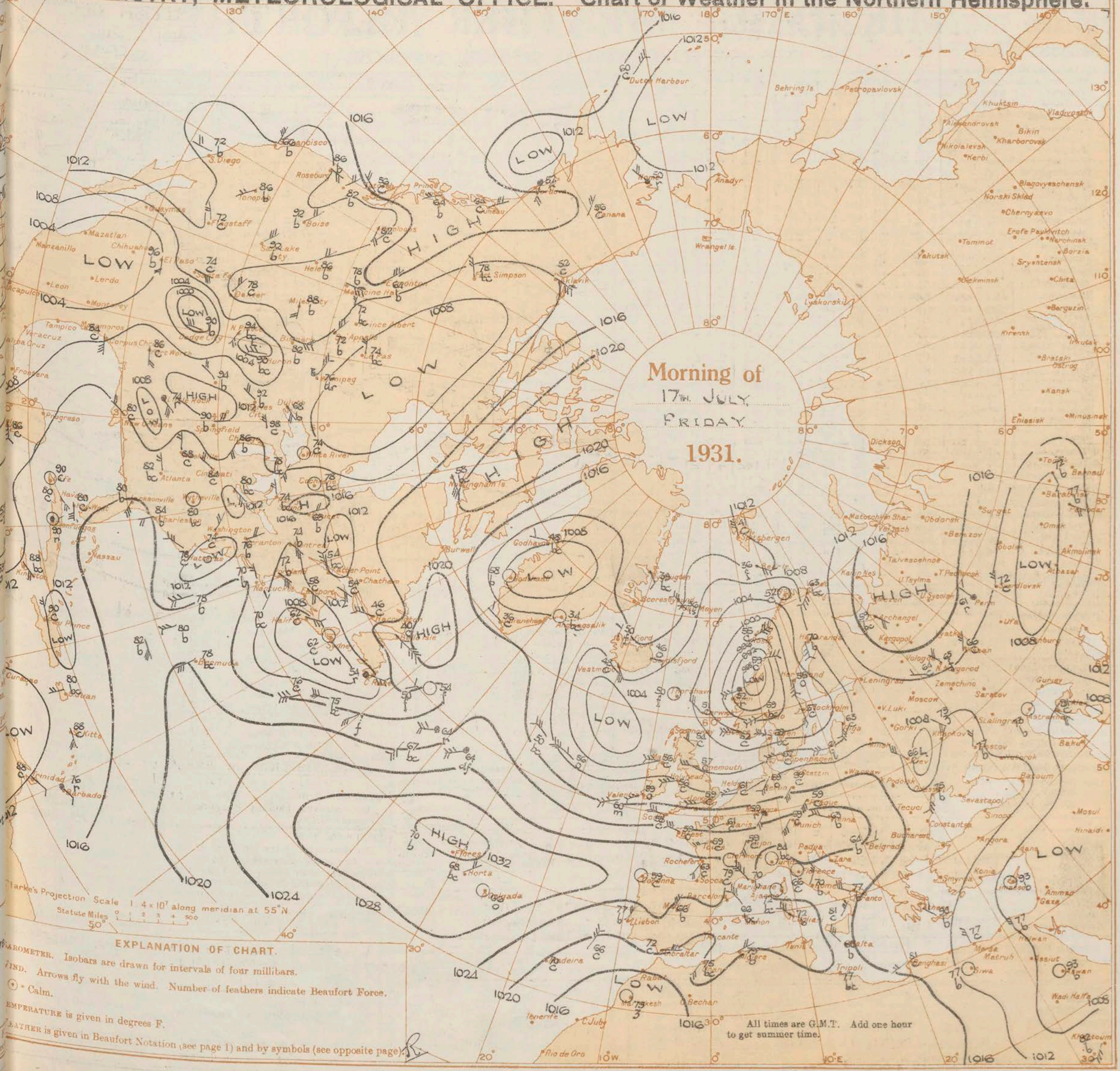
Unsettled: considerable bright intervals tomorrow in most districts.

Forecasts issued at 0915 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2

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


Morning of
17th. JULY.
FRIDAY
1931.
LOW
HIGH
Dutch Harbour
Behring Is.
Petropavlovsk
Anadyr
Wrangel Is.
Yakutsk
Dickson
Lyakorskii
Khuktsin
Vladivostok
Khabarovsk
Nikolaievsk
Kerbi
Blagoveschensk
Norski Skled
Chernyaevo
Tommot
Nerchinsk
Borzia
Sryentensk
Chita
Berguzin
Irkutsk
Bratski Ostrog
Kansk
Eniesisk
Minusinsk
Barnaul
Omsk
Akmolinsk
Atbassar
Uralsk
Ufa
Kamyshin
Saratov
Gurjev
Astrakhan
Baku
Batoum
Sevastopol
Tecuci
Constanta
Bucharest
Belgrade
Padua
Florence
Rome
Naples
Palermo
Malta
Tripoli
Benghasi
Siwa
Matruh
Assiut
Wadi Halfa
Khartoum
Mosul
Hinaidi
Amara
Gaza
Konia
Smyrna
Ankara
Sinope
Archangel
Kargopol
Vologda
Leningrad
Moscow
Zemchino
V. Luki
Gorki
Kharkov
Rostov
Kiev
Warsaw
Berlin
Hamburg
Kiel
Copenhagen
Stockholm
Oslo
Aberdeen
Lerwick
Thorshavn
Scoresby Sund
Godthaab
Julianehaab
Angmagssalik
Jan Mayen
Spitsbergen
Bear Is.
Hammerfest
Vardo
Murmansk
Kandalaksha
Kem
Petrozavodsk
Kotlas
Perm
Ekaterinburg
Tyumen
Tobolsk
Omsk
Barnaul
Semipalatinsk
Akmolinsk
Atbassar
Uralsk

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 17th July 1931.

No. 25439

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

District	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind Direc. (3)	Wind Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1016.4	+2	WSW	3	bc	57	85	6	-	3	-	0	2-3	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1016.7	-2	SW'W	3	b	57	85	8	-	3	-	0	1	-
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1016.1	+2	W'S	3	bc	56	95	8	5	-	-	2-3	2-3	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1013.4	0	WSW	1	bc	58	85	7	-	4	-	0	4-6	-
	Cranwell ...	240	1012.8	-8	WSW	3	pr	56	95	6	6	2	-	7-8	9+	2500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1016.8	-4	WSW	5	c	59	95	8	4	7	-	7-8	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1020.0	+2	W	4	bc	56	95	8	5	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	163	1020.0	+8	WNW	5	cd	57	95	7	8	-	-	7-8	7-8	2500
	Guernsey ...	175	1019.3	0	SW	3	bc	58	95	8	5	-	-	4-6	4-6	2500
6	Pembroke ...	142	1015.4	+8	W	4	q	58	95	7	-	6	-	0	7-8	-
7	Holyhead ...	26	1012.7	0	W	5	bc	56	85	7	5	-	-	4-6	4-6	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1011.2	0	SW'W	3	c	57	85	7	4	2	-	4-6	9	4000
	Tynemouth ...	67	1008.9	-6	WSW	1	ir.	56	95	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1009.1	0	WSW	3	c	52	95	7	5	2	-	4-6	9+	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1008.0	+4	NW	3	c	53	95	7	5	-	-	10	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1007.2	-2	NW	2	c	50	95	8	8	5	8	4-6	7-8	2500
16	Lerwick ...	54	1005.3	-14	NNW	1	c	50	85	8	8	-	-	9	9	1500
17	Blacksod Point	18	1012.9	-4	W	5	PR	56	85	6	8	-	-	10	10	<150
18	Malin Head ...	52	1009.9	-6	W	4	cjp	55	95	7	9	3	-	7-8	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1016.9	0	W	3	o	57	95	6	5	-	-	10	10	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind Direc. (17)	Wind Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	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)
1014.1	0	WSW	3	c	60	85	8	4	7	8	2-3	9+	1500	1	*
1014.4	-6	W'S	4	c	59	85	7	5	7	-	7-8	9+	800	0	*
1013.9	-2	W'S	3	c	60	85	8	5	3	-	7-8	9+	5700	0	*
1014.9	+2	W'S	3	c	58	95	8	5	7	-	9	9+	1500	0	*
1015.1	+2	W	3	c	58	95	7	5	7	-	7-8	10	1500	0	*
1015.5	+2	W'S	4	c	60	85	8	5	7	-	4-6	10	4000	0	2
*	*	SW	5	c	*	*	7	5	1	*	7-8	10	1500	*	3
1014.1	-8	WSW	3	c/pr	57	95	7	5	-	-	10	10	800	1	*
1013.6	-6	WSW	4	ir.	59	95	7	6	2	-	7-8	9+	1500	3	*
1012.9	-16	WSW	4	c	60	75	7	5	3	-	7-8	9+	4000	0	2
1011.4	-4	WSW	3	c	58	85	7	4	6	-	7-8	9+	2500	0	2
1011.0	-2	W	4	c	58	95	6	8	3	-	4-6	7-8	450	1	*
1012.4	0	WSW	4	c	59	75	8	5	7	-	4-6	9+	2500	*	*
1012.8	0	WSW	3	c/pr	55	85	6	6	7	-	2-3	9+	1500	1	*
1013.8	+2	WSW	4	c	57	85	7	5	-	-	9+	9+	1500	1	*
1013.1	0	WSW	2	c	56	85	8	5	7	-	9	9+	2500	1	*
1014.1	0	W	3	c	57	75	8	5	7	-	4-6	9+	2500	1	*
1016.2	+6	SWW	5	c	59	85	7	4	7	-	7-8	10	2500	0	4
1017.6	+2	W	4	c	58	85	7	5	3	-	9	9+	1500	1	3
1018.8	-4	W	3	c	57	95	7	8	3	-	4-6	7-8	4000	0	2
1018.9	-4	WNW	5	c/pr	58	95	7	8	8	-	4-6	9	4000	0	4
1019.2	0	W	4	c/d	60	85	7	8	-	-	10	10	1500	1	4
1014.7	0	W	4	ir.	57	85	7	5	2	-	7-8	10	1500	1	2
1012.3	-2	SWW	4	c	56	85	8	5	-	-	9+	9+	4000	1	2
1012.3	0	W	4	c	56	75	8	5	3	-	7-8	9	2500	1	*
1011.5	-2	WNW	5	c/pr	55	85	9	9	-	-	9+	9+	2500	0	*
1009.7	0	SSW	4	bc/pr	57	85	9	3	4	-	4-6	4-6	2500	1	*
1009.0	-2	W'N	4	c/pr	58	95	7	3	7	-	4-6	9+	4000	1	3
1007.3	0	W	3	c	57	85	6	6	-	-	7-8	7-8	1500	1	2
1006.8	-10	WSW	3	c	55	85	8	5	2	-	4-6	9+	2500	0	1
1007.1	-8	W	2	ir.	55	95	7	5	2	-	7-8	10	2500	1	*
1008.2	-4	SWW	3	c	57	85	8	3	-	-	7-8	7-8	1500	1	*
1008.1	-4	W	4	c	56	75	8	5	3	-	4-6	7-8	2500	1	*
1006.6	-6	W	4	c	55	95	7	5	2	-	4-6	9+	1500	1	2
1005.9	-8	-	0	c	55	95	8	2	6	-	4-6	9+	1500	1	0
1007.1	-10	-	0	c	50	95	7	4	-	-	10	10	450	1	*
1006.2	-4	WNW	2	c	54	85	8	5	4	-	4-6	7-8	4000	1	1
1005.4	-8	NW	2	bc	55	85	8	8	6	8	2-3	4-6	2500	0	2
1003.5	-8	NW	3	c/r	51	85	7	6	2	-	4-6	10	1500	1	*
1003.6	-20	S	2	c	53	85	9	5	-	-	10	10	450	1	2
1008.4	-6	W	4	c	56	95	7	8	-	-	9+	9+	2500	0	1
1010.1	-12	SW'S	3	c	55	85	8	5	3	-	7-8	9+	1500	1	*
1009.9	-6	WSW	2	c	54	95	8	5	-	-	9+	9+	1500	0	1
1012.7	-12	SW	1	rr	54	95	7	6	-	-	10	10	2500	1	*
1013.3	-24	SW	4	c	59	95	8	5	-	-	10	10	800	1	3
1014.1	-12	W	3	c	58	85	8	3	-	-	7-8	7-8	2500	0	3

PAST 24 HOURS.

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 16th Hrs. (36)
70	56	51	-	-	6.9
69	56	53	Tr	-	6.0
75	52	42	Tr	-	8.4
69	53	48	-	-	7.1
67	52	49	-	Tr	*
68	56	53	1	-	3.1
68	52	*	Tr	Tr	*
69	54	53	2	Tr	7.8
72	56	53	-	Tr	9.1
71	57	55	-	-	9.3
69	56	52	-	-	9.8
66	54	51	-	1	9.3
*	*	*	*	*	*
62	54	52	-	Tr	4.8
69	54	52	Tr	Tr	*
65	53	49	-	-	7.8
65	55	51	-	Tr	3.2
62	58	*	-	-	*
63	56	54	0.2	0.1	4.4
64	54	*	0.1	0.1	3.2
64	57	*	-	0.4	6.9
66	58	55	-	0.1	7.3
62	56	*	-	Tr	5.9
62	55	52	Tr	1	3.7
64	56	53	-	0.5	1.9
61	54	53	-	1	5.3
64	55	50	-	1	8.4
67	56	*	-	0.1	7.1
70	56	55	-	0.6	*
61	52	50	-	Tr	6.3
69	48	43	Tr	0.3	4.3
63	53	51	-	0.4	5.5
64	52	51	-	8	4.7
64	54	54	-	5	2.2
61	51	*	0.5	0.5	0.3
59	49	46	10	0.2	1.5
59	53	51	0.1	1	2.4
58	49	*	-	-	*
53	49	*	-	Tr	0.3
62	52	*	0.5	6	*
60	54	*	1	1	0.8
63	52	47	2	0.1	0.7
65	52	*	0.1	5	*
65	54	52	2	2	2.1
62	56	53	0.3	Tr	2.0
65	55	*	Tr	0.1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 16h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	bccy	bcycy	c	70	56	51	-	-	6.9	*	*	8
CROYDON	217	cm,bc	cpr,bc	bcm,c	69	56	53	Tr	-	6.0	*	*	8
GREENWICH (Royal Observatory) ...	149	cy	cy	cbc	74	55	47	-	-	6.2	51	66	7
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	8.0	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	71	57	53	-	-	7.4	50	73	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	6.7	*	*	*
CAMDEN SQUARE	110	c	c	*	71	57	53	-	Tr	*	*	77	*
KENSINGTON	80	bcc	bcco	*	74	56	49	-	-	6.5	At 18h. 73	77	*
HAMPSTEAD OBSERVATORY	450	bc	bc	*	69	52	?	-	Tr	9.2	*	85	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 16th July. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 17th July. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.
PARIS	1018.5	W	2	c	66	1019.1	WSW	3	c	61
BRUSSELS	1015.4	W	3	tlr.	63	1015.4	SW	4	c	61
BERLIN	1007.5	WSW	6	pr.	63	1014.2	SW	3	c	59
ZÜRICH	1020.7	N	1	bc	61	1021.2	WNW	1	c	59
ROME	1015.1	N	4	b	79	1017.8	NNE	3	b	70

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
68	59	4	-
70	55	0.1	4
66	55	4	1
70	52	1	-
86	57	-	-

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.6	7h-8h 16th.	Nil.	23h. 16th to 4h. 17th.

Kew Observatory. Max.	Time.	Min.	Time.
0.1	8h. 16th.	0.1	23h. 16th

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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 18th July 1931.

No. 25440

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1014.9	+6	W'S	4	c/pr	62	55	8	4	2	-	4-6	10	2500
	Croydon	1015.0	+6	W	4	c/pr	62	65	8	7	2	-	7-8	9+	2500
	S. Farnborough	1015.8	+10	W'S	4										
	Winchester	1015.9	+2	W'S	3	ir	62	73	7	6	2	-	7-8	10	2500
	Boscombe Down	1015.5	0	W	4	ir$_o$	60	75	8	6	2	-	7-8	10	1500
	Calshot, S'thmtn	1016.3	0	SW	4	c	63	83	7	6	2	-	2-3	10	1500
	Dungeness	*	*	SW	5	rr	*	*	7	5	2	-	7-8	10	1500
	Lympne	1014.0	0	W'S	5	ir$_o$	64	55	8	5	2	-	T$_r$	10	2500
2	Shoeburyness	1013.7	0	WSW	4	c	66	66	8	7	2	-	7-8	10	1500
	Felixstowe	1012.8	-2	WNW	4	c	67	45	8	5	2	-	4-6	9	2500
	Gorleston	1010.9	+2	WNW	4	c	66	75	7	4	6	-	4-6	9	2500
	Cranwell	1011.4	+2	WSW	4	c	61	75	8	8	3	1	7-8	9	1500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1013.2	0	WSW	4	cjp	56	85	8	6	-	-	10	10	1500
	Upper Heyford	1014.4	+2	W'S	4	r$_o$r$_o$	57	85	7	6	2	-	7-8	10	1500
	Leafield	1014.5	0	SW'W	4	rr	56	85	8	6	2	-	1	10	2500
4	Ross-on-Wye	1013.9	-4	SW	3	r$_o$r$_o$	57	85	6	6	1	-	9+	10	2500
5	Portland Bill	1016.2	-4	W'S	5	c	60	85	8	4	-	-	10	10	2500
	Plymouth	1016.5	-8	WSW	5	ir	59	95	7	6	2	-	9	10	800
	Falmouth	1017.2	-4	WSW	6	c	60	83	7	8	-	-	7-8	7-8	4000
	Scilly (St. Mary's)	1018.3	-10	W'S	6	bc	62	85	7	8	-	9	4-6	4-6	2500
	Guernsey	1019.3	0	SW	5	c	64	85	7	8	6	-	7-8	10	2500
6	Pembroke	1012.4	-8	SW	4	rr	59	90	6	5	-	-	10	10	800
7	Holyhead	1010.1	-18	S'W	4	c	56	85	8	5	2	-	4-6	10	2500
	Chester (Sealand)	1011.2	-8	SW	4	i$_o$	59	75	8	5	-	-	10	10	1500
8	L'pool (Bidston)	1010.6	-2	W'S	3	pr$_o$	56	85	8	3	-	-	10	10	1500
9	Harrogate	1009.8	0	SSW	4	ir$_o$	57	85	8	6	2	-	9	10	2500
10	Spurn Head	1009.2	0	W'W	5	c	60	75	7	5	7	-	2-3	9+	4000
	Tynemouth	1006.9	-4	W	3	c	62	65	7	9	-	-	7-8	7-8	1500
11	Inchkeith	1006.0	-6	WSW	3	c	59	75	8	5	-	9	4-6	7-8	2500
12	Leuchars	1005.7	-10	W	3	pr$_o$	63	75	8	8	7	-	7-8	9+	1500
	Renfrew	1006.9	-8	SW	3	c	59	75	8	5	1	-	9	10	2500
	Eskdalemuir	1007.3	-6	W	4	cjp	55	85	8	5	2	-	7-8	10	1500
13	Tiree	1005.0	-8	SSW	3	r$_o$r$_o$	56	93	7	6	2	-	4-6	9+	1500
14	Stornoway	1004.2	-12	SSE	2	c	55	95	8	8	2	-	7-8	9+	1500
15	Dalwhinnie	1004.9	-16	S	1	c	58	85	8	8	2	-	9	9	1000
	Aberdeen	1003.4	-8	SSE	3	c	61	75	8	3	4	-	7-8	7-8	2500
	Wick	1004.4	-8	S	2	c	54	85	8	8	1	1	4-6	7-8	2500
16	Lerwick	1002.1	-6	NW	3	c	53	85	7	5	2	-	4-6	10	1500
17	Blacksod Point	1002.0	-28	W	4	iD	61	95	7	5	-	-	10	10	<150
18	Malin Head	1004.2	-32	S	3	d$_o$d$_o$	57	85	5	6	2	-	7-8	10	1500
	Aldergrove	1006.5	-26	SSE	3	d$_o$d$_o$	55	95	5	5	1	-	9	10	450
	Donaghadee	1007.6	-12	WSW	1	i$_d$	57	95	7	5	-	-	10	10	1500
19	Birr Castle	1006.3	-36	SW	3	dd	63	95	7	6	-	-	10	10	2500
20	Valentia Obsy.	1010.2	-10	S/W	5	c/r	62	95	7	6	-	-	10	10	1500
	Roches Point	1011.6	-20	SW	4	id	60	95	6	6	-	-	10	10	1500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1012.0	-30	SW'S	4	rr	60	95	7	6	-	-	10	10	800	1	*
	Croydon	1013.6	-14	SW	4	r$_o$r$_o$	59	95	6	6	2	-	7-8	10	800	1	*
	S. Farnborough	1012.2	-26	SW	4	rr	59	95	6	6	-	-	10	10	800	1	*
	Winchester	1012.9	-18	SW'W	4	rr	58	95	7	6	2	-	9	10	800	1	*
	Boscombe Down	1012.1	-26	SW	3	rr	58	95	6	6	7	-	9+	10	450	1	*
	Calshot, S'thmtn	1014.0	-18	SW'W	6	rr	59	95	6	6	-	-	10	10	800	1	3
	Dungeness	*	*	SW	4	rr	*	*	5	6	-	*	10	10	1500	*	3
	Lympne	1013.3	-18	SW	5	rr	57	95	6	6	-	-	10	10	<150	1	*
2	Shoeburyness	1012.5	-20	SSW	3	r$_o$r$_o$	59	95	7	6	-	-	10	10	1500	1	*
	Felixstowe	1013.3	-10	SW'W	4	c	60	65	7	5	2	-	7-8	10	1500	0	2
	Gorleston	1010.5	-2	WSW	3	o/r	61	75	7	6	-	-	10	10	1500	1	2
	Cranwell	1008.4	-2.2	SSW	3	id$_o$	57	95	7	5	-	-	10	10	1500	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1008.0	-34	WSW	4	o/r	58	85	7	6	-	-	10	10	1500	1	*
	Upper Heyford	1010.4	-30	SW	4	rr	58	95	6	6	2	-	9	10	450	1	*
	Leafield	1009.9	-30	SW'S	4	rr	57	95	8	6	-	-	10	10	450	1	*
4	Ross-on-Wye	1008.8	-26	SW	5	c/r	60	95	7	6	7	-	9+	10	2500	1	*
5	Portland Bill	1012.8	-24	SW'W	7	RR	59	95	5	5	-	-	10	10	800	2	5
	Plymouth	1013.8	-20	WSW	6	ir$_o$	58	95	6	6	-	-	10	10	450	1	4
	Scilly (St. Mary's)	1014.2	-8	WSW	7	d$_p$d$_o$	59	95	6	6	-	-	10	10	2500	1	4
	Guernsey	1014.5	-10	W'S	6	ir$_o$	59	95	5	5	-	-	10	10	<150	1	4
6	Pembroke	1017.5	-16	SW	6	c	61	85	7	5	2	-	4-6	10	4000	0	4
7	Holyhead	1007.8	-8	SW	5	Dr	60	95	6	6	-	-	9+	9+	450	1	3
	Chester (Sealand)	1004.8	-30	SSW	5	o	58	95	5	5	-	-	10	10	320	1	3
8	L'pool (Bidston)	1004.8	-44	SW'S	3	c/p	62	85	7	5	7	-	4-6	9+	800	1	*
9	Harrogate	1004.3	-44	S'E	2	o/d	58	85	8	5	-	-	10	10	2500	0	*
10	Spurn Head	1006.0	-26	S'E	3	c/d	57	85	5	6	2	-	9	10	2500	1	*
	Tynemouth	1007.4	-6	SW'W	3	pr$_o$	59	95	7	6	7	-	7-8	9+	4000	0	3
11	Inchkeith	1004.3	-10	SW	3	c	59	75	6	6	-	-	7-8	7-8	1500	0	2
12	Leuchars	1003.7	-18	W	2	ir$_o$	57	85	8	8	2	-	4-6	10	4000	1	1
	Renfrew	1003.3	-14	SW	3	c	59	75	7	2	7	-	T$_r$	10	2500	1	*
	Eskdalemuir	1003.8	-18	—	0	dr	55	95	6	6	2	-	7-8	10	1500	1	*
13	Tiree	1003.8	-22	SW	4	ir	53	95	6	6	2	-	7-8	10	1500	1	*
14	Stornoway	1002.1	-16	E	2	dd	54	95	6	6	2	-	7-8	10	800	1	2
15	Dalwhinnie	1003.2	-12	SE	1	c	57	85	8	8	9	8	4-6	9+	2500	0	0
	Aberdeen	1004.2	-18	SE	1	iR	55	85	6	3	2	-	4-6	10	4000	1	*
	Wick	1002.3	-16	SSE	2	i$_o$	56	85	7	6	1	-	4-6	10	2500	0	1
16	Lerwick	1003.0	-8	S	1	c	55	85	8	8	4	1	4-6	7-8	2500	0	2
17	Blacksod Point	1001.1	-6	NNW	3	c	52	85	7	5	2	-	4-6	10	1500	0	*
18	Malin Head	1002.0	-2	W	5	id	58	95	6	3	-	-	10	10	<150	1	3
	Aldergrove	1003.8	-20	S	1	dr	58	95	5	6	2	-	9	10	800	1	0
	Donaghadee	1004.7	-34	SSW	4	rr	60	95	6	5	2	-	9	10	220	1	*
19	Birr Castle	1004.4	-30	S	1	i$_d$	55	95	6	5	-	-	10	10	800	1	0
20	Valentia Obsy.	1004.5	-4	SW	4	id	59	85	7	6	2	-	9	10	1500	1	*
	Roches Point	1010.7	-8	NW	5	bc	65	75	8	8	-	-	2-3	2-3	1500	0	4

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	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)	ccpr$_o$	orcr	circ	c
	Croydon	cpr$_o$	cr$_o$rrm$_o$	rrRbc	bcr$_o$c
	S. Farnborough				
	Winchester	c$_c$ir	crr	orrc	bcoid$_o$
	Boscombe Down	cir$_o$	cr$_o$rrR	crrc,c	c
	Calshot, S'thmtn	cr$_o$	crrm$_o$	cr$_m$.$_o$q	cq
	Dungeness	cpr$_o$	cr$_o$r$_o$q	rr$_i$$_oq_c$	bcc
	Lympne	o	r	*	o
2	Shoeburyness	ocr$_o$y	orrm$_d$	orrd$_o$	obcc
	Felixstowe	cir$_o$cm$_o$	cor$_o$r$_o$	cir	crc
	Gorleston	cpr$_o$y	cyq	cqrr	c
	Cranwell	c$_o$ir$_o$	c	oii$_r$$_o$	bccq
3	Cardington	c	pr$_o$d$_o$	prid$_o$c	c
	Birmingham	*	*	orc	cqv
	Upper Heyford	cpr$_o$	cpr	oc	c
	Leafield	c$_c$rr$_o$	rrR	cr$_o$r$_o$	cd$_o$r$_o$
4	Ross-on-Wye	cir$_o$o	orr	or$_o$r$_o$c	cir$_o$
5	Portland Bill	c$_o$ir$_o$	rror	cq	cqc
	Plymouth	c	cRRRm$_o$	orrcbc	bcc
	Falmouth	cr$_o$	c$_o$m$_o$r	c$_o$m$_o$r	c
	Scilly (St. Mary's)	cp$_o$q	c$_o$d$_o$m$_o$q	o$_d$m$_o$cq	cq
	Guernsey	c	cirm	d$_f$f$_e$r	cq
6	Pembroke	ocbcc	ocbcc	odd	oprr$_o$
7	Holyhead	cirr$_o$	oRrm	cqbc	bccq
	Chester (Sealand)	ir$_o$c	P$_r$o$_o$m$_o$	ir$_o$c	oc
8	L'pool (Bidston)	id$_o$c	c i d$_o$r$_c$	co	o i d m$_o$q
9	Harrogate	PRcp$_o$	vpd$_o$	opr	qprcc
10	Spurn Head	bccir	c i d$_o$	codd	coid
	Tynemouth	cq	cp$_o$	cpr	cprq
11	Inchkeith	c	cp$_o$	cbir	or$_o$r$_o$
12	Leuchars	c	ir$_o$c	cir$_o$o	r$_o$r$_o$c
	Renfrew	crpr$_o$	cp$_r$o$_o$c	cir$_o$i$_d$$_o$	cir$_o$i$_d$$_o$
	Eskdalemuir	bccpc	cir$_o$rd	rdid	cir$_o$
13	Tiree	bccir	cirr$_o$	crrodm$_o$	odm$_o$c
14	Stornoway	c	o$_r$r$_o$	i$_d$$_o$	or$_o$
15	Dalwhinnie	cpr$_o$	c	c	c
	Aberdeen		ir		ir
	Wick	cr$_o$bc	bccr$_o$c	cr$_o$r$_o$	cr$_o$r$_o$
16	Lerwick	bcc	c	c	c
17	Blacksod Point	c	c	c	c
18	Malin Head	idq	id$_o$	prqc	c
	Aldergrove	cri$_d$h$_m$$_o$	cm$_o$$_or_dc_d$$_o$$_o$ffo		cpr
	Donaghadee	id$_d$$_d$$_o$	r$_o$t$_m$$_o$	rrc	cid$_o$
19	Birr Castle	cid$_o$	id$_o$m$_o$	cid$_o$c	c
20	Valentia Obsy.	rrcod	oddcid	od$_o$c	c
	Roches Point	cpirr$_o$$_o$	cpr$_o$c	cp$_o$c	cpcirr$_o$c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, " less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

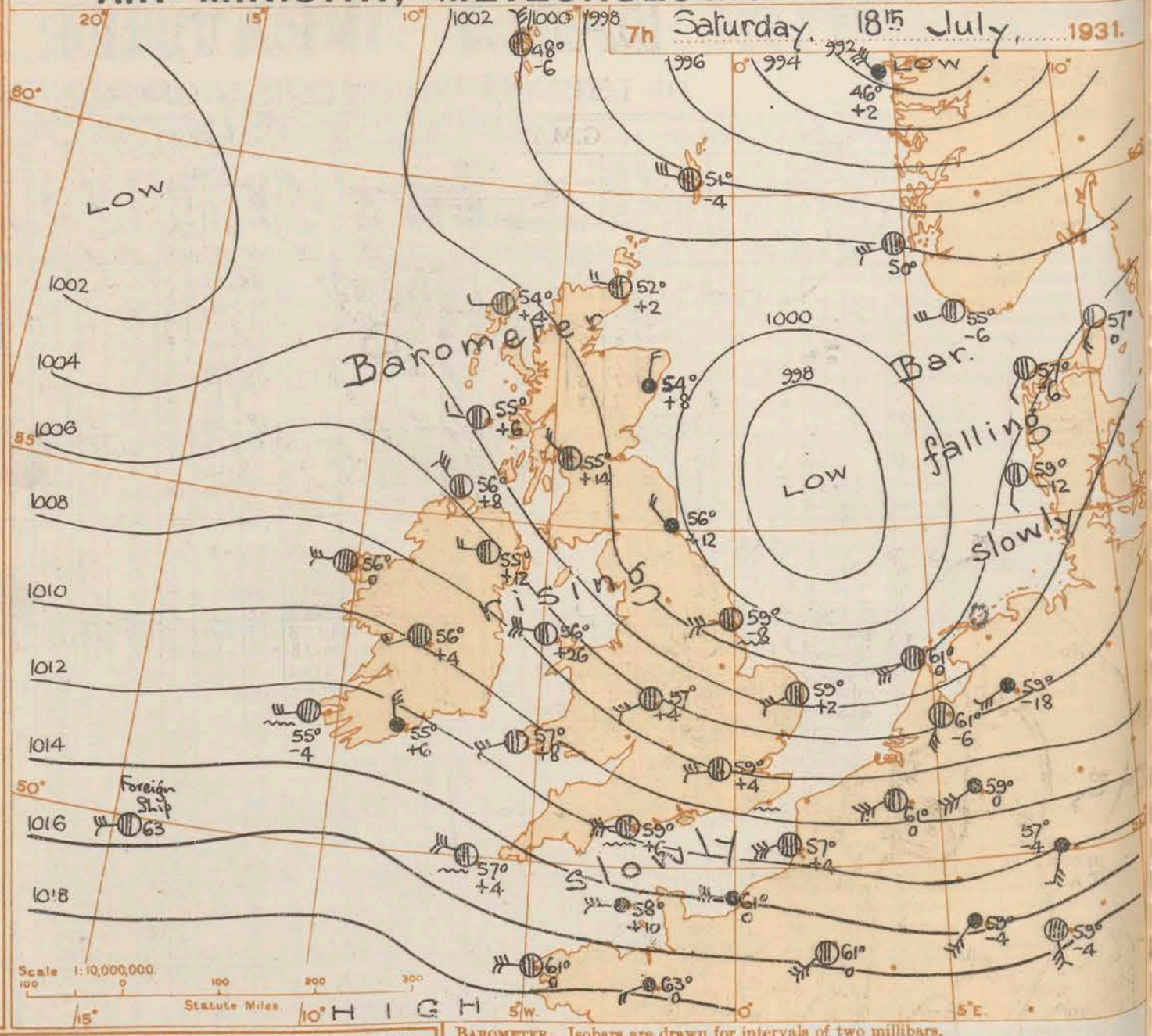
REPORTS from HEALTH RESORTS for 17th July 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min 9h. 16th to 9h. 17th.	Temperature. Max. 9h.—17h. 17th.	Rainfall. Night, 17h. 16th to 9h. 17th.	Rainfall. Day. 9h.—17h. 17th.	Sunshine. Sunrise to 17h. 17th.	Sunshine. Sunrise to Sunset. 16th.
1	Tunbridge W.	cbc	cor	54	66	Trace	2	2.2	5.8
	Bournemouth	o	od	57	69	-	0.3	0.0	6.5
	Ventnor ...	guco	odgor	57	64	-	Trace	0.6	8.1
	Southsea ...	bcco	op	59	64	-	1	1.3	3.9
	Bognor Regis	bcoir	oir	57	65	-	2	1.9	5.0
	Littlehampton	bcc	cper	57	64	0.4	2	2.1	3.7
	Worthing ...	bcor.	orRr	59	66	0.3	3	2.3	3.7
	Brighton ...	bc	berer	59	66	Trace	3	3.3	6.2
	Eastbourne†	co	orbb	58	65	Trace	2	1.2	5.6
	Hastings† ...	ebcc	copor	56	67	0.3	1	1.5	7.5
	Folkestone ...	odoc	coir	56	68	Trace	1	1.0	7.4
	Dover... ...	c	cor	57	65	Trace	1	0.3	6.7
	Deal	ocbc	orc.	55	69	-	Trace	1.0	4.5
	Ramsgate ...	cbcc	c	57	69	3	-	2.3	6.4
	Margate ...	cbc	cd	56	68	1	Trace	1.7	6.9
2	Southend ...	cor.	or.	62	67	0.2	Trace	1.4	8.7
	Maldon ...	cbc	co	54	68	-	-	1.2	10.5
	Clacton-on-Sea	c	c	57	68	-	-	1.8	11.2
	Dovercourt ...								
	Lowestoft ...	bcoid	irco	54	64	Trace	1	3.4	9.8
	Skegness ...	oc	com.	53	65	1	-	1.1	6.7
	Mablethorpe	co	ocm.	52	63	1	0.3	1.0	6.7
	Cleethorpes ...	c	circo	54	64	1	Trace	2.5	6.1
3	Leamington S.	cbc	cor	57	62	-	1	0.8	8.7
4	Cheltenham†	wco	oiror	56	60	-	4	0.1	4.0
5	Bath	bcerr	rcrr	59	62	-	7	0.0	7.8
	Weymouth ...	c	cr	58	65	-	3	0.4	7.1
	Jersey ...	pcbc	cpbc	59	63	Trace	Trace	1.9	6.0
	Torquay ...	cpoir	dqmdq	57	65	-	3	0.5	8.5
	Penzance ...	c	comd	56	66	0.5	Trace	1.4	6.1
	St. Ives ...	o	bccod	57	65	Trace	Trace	3.1	7.7
	Bude	ccer	rr	55	61	0.2	10	0.0	5.3
	Ilfracombe ...	cr	r	59	63	-	8	0.0	8.1
6	Aberystwyth	cpr	orrmr	56	61	1	10	0.0	1.1
7	Llandudno ...	cp.	c	56	62	0.3	Trace	0.8	2.2
	Colwyn Bay...	c	c	55	63	1	-	0.9	2.7
	Rhyl								
8	Wallasey ...	c	op.op	56	62	1	0.5	0.8	4.4
	Southport‖ ...	o	or	56	61	1	1	0.6	4.9
	Blackpool ...	pc	cor	57	61	0.5	2	0.3	5.7
	Morecambe ...	rdpc	cbrdo	57	60	3	3	0.3	6.6
9	Ilkley... ...	bccwo	cpo	55	61	3	0.5	0.3	7.[illegible]
10	Berwick-on-T.	c	o	51	54	0.3	-	3.0	2.[illegible]
11	Dunbar ...	crom.	cr.	51	65	0.3	Trace	3.2	6.[illegible]
12	Douglas ...	copp	F	53	59	1	5	0.3	3.9

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Saturday, 18th July, 1931.



Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
Temperature is given in degrees F.
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊻ Thunderstorm.
Sea Disturbance. ≈ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 18th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England	Moderate or fresh westerly wind, backing slightly; cloudy, occasional slight rain or showers; rather cool.
6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W Scotld. / B. N.W. Scotland.	Moderate or fresh west or southwest winds; cloudy, occasional rain; rather cool.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind west to southwest, light to moderate or fresh; cloudy, occasional rain; rather cool.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 6 - 13A.

GENERAL INFERENCE.

A depression over the North Sea is moving eastward and further disturbances are approaching from the Atlantic. Fresh westerly winds will continue with cloudy rather unsettled weather.

FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 0920 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2

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

Morning of
18th. JULY,
SATURDAY.
1931.

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

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 18th July 1931.

No. 25440

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

Dist.	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)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1008·7	-10	WSW	5	bc	60	85	7	5	-	-	4-6	4-6	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1011·1	-4	WSW	4	c	60	95	8	5	-	-	7-8	7-8	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1009·0	-18	WSW	4	o/d.	58	95	5	6	-	-	10	10	220
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1004·8	-24	WSW	4	bc	60	95	7	6	-	-	4-6	4-6	1500
	Cranwell ...	240	1002·8	-10	WSW	5	c	59	85	7	5	3	6	4-6	9	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1010·5	- 2	WSW	6	bc	59	95	7	4	4	-	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1013·8	0	W	5	q	59	85	7	5	-	-	9	9	4000
	Scilly (St. Mary's)	163	1015·5	+8	WNW	5	q	59	95	7	5	-	-	9+	9+	2500
	Guernsey ...	175	1015·1	-14	SW	5	d. d.	59	95	5	6	-	-	10	10	1500
6	Pembroke ...	142	1009·2	+10	W	4	bc	58	85	8	6	-	-	4-6	4-6	2500
7	Holyhead ...	26	1004·9	+ 2	WSW	6	o	57	85	7	5	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1000·9	- 6	W	4	pr	61	95	7	9	2	-	4-6	9	4000
	Tynemouth ...	67	998·9	-20	S	1	c. 6	55	95	6	6	-	-	10	10	1500
11	Inchkeith ...	190	1001·0	- 8	NNE	1	r.	53	95	8	5	-	-	10	10	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1002·6	0	-	0	c	53	95	8	4	7	-	4-6	9+	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1001·7	- 2	NNW	2	c	52	95	8	8	-	-	9+	9+	1500
16	Lerwick ...	54	999·5	- 2	WNW	3	c	50	85	7	5	2	-	4-6	10	1500
17	Blacksod Point	18	1008·6	+24	NW	5	c	55	95	7	8	-	-	7-8	7-8	800
18	Malin Head ...	52	1005·0	+4·8	NW	4	cjp	55	95	7	6	2	-	4-6	10	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1012·4	+6	WSW	5	o	56	95	7	5	-	-	10	10	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Dist.	Stations.	Barom. at M.S.L. ·mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. (29)	Sea. 0-9 (30)
1	London (Kew)...	1008·7	+1·4	WSW	3	c	59	75	8	5	-	-	10	10	1500	1	*
	Croydon ...	1009·0	+·4	W	4	c	59	85	8	5	2	-	7-8	10	800	1	*
	S. Farnborough	1009·3	+·8	W'S	4	o/d	58	85	8	6	-	-	10	10	1500	1	*
	Winchester ...	1010·3	+·8	W	4	c	58	85	8	5	2	-	9	9+	1500	1	*
	Boscombe Down	1011·1	+·4	WNW	4	c	58	85	8	5	3	-	7-8	9+	1500	1	*
	Calshot, (S'thmtn)	1011·5	+·6	WSW	4	c	59	75	8	5	5	-	7-8	9	2500	0	2
	Dungeness ...	*	*	SW	5	cq	*	*	7	8	7	*	4-6	7-8	2500	*	4
	Lympne ...	1008·5	+·6	WSW	5	c	59	85	8	5	-	-	9+	9+	4000	1	*
2	Shoeburyness	1007·3	+·2	WSW	4	c	60	85	7	5	7	-	7-8	9+	1500	1	*
	Felixstowe ...	1006·3	+·2	W	4	c	61	75	8	5	-	-	10	10	2500	1	2
	Gorleston ...	1003·7	+·2	W'S	4	c	59	85	7	4	6	-	7-8	9	2500	0	3
	Cranwell ...	1003·4	+·2	WSW	5	c	58	85	8	5	3	-	9+	10	450	1	*
3	Cardington ...	1006·3	+·6	WSW	5	c	59	75	9	5	4	9	9	9+	1500	*	*
	Birmingham ...	1006·5	+·4	WSW	4	c	57	85	6	6	-	-	9+	9+	1500	1	*
	Upper Heyford	1007·5	+·4	WSW	4	r.	57	85	8	6	-	-	10	10	1500	1	*
	Leafield ...	1008·0	+·6	WSW	5	r.	56	85	9	6	-	-	10	10	1500	1	*
4	Ross-on-Wye ...	1008·8	+1·0	W'S	3	cjp	57	85	8	5	-	-	9+	9+	2500	1	*
5	Portland Bill....	1011·3	+·6	W	6	c	59	85	8	8	8	-	4-6	7-8	2500	1	5
	Plymouth ...	1013·3	+·4	NW	5	c	59	75	8	9	3	-	7-8	7-8	1500	1	3
	Falmouth ...	1014·6	+·4	W'N	5	cq	58	85	8	5	-	-	10	10	4000	0	2
	Scilly (St. Mary's)	1015·1	+·4	WNW	5	cjp	57	95	7	8	-	-	9+	9+	2500	1	4
	Guernsey ...	1015·4	+1·0	W	4	r.	58	95	6	8	-	-	10	10	1500	1	3
6	Pembroke ...	1010·7	+·8	W	4	c	57	85	7	5	7	-	9	9	1500	1	3
7	Holyhead ...	1008·0	+2·6	W'N	6	c	56	85	8	5	7	-	2-3	9+	800	0	3
	Chester (Sealand)	1005·6	+2·0	W'N	6	cjp	57	85	8	5	-	-	9+	9+	800	0	*
8	L'pool (Bidston)	1004·6	+1·0	W'N	7	cjp	56	85	8	5	-	8	7-8	9+	2500	0	*
9	Harrogate ...	1001·1	+·6	SSW	3	q	58	95	9	6	-	-	10	10	2500	1	*
10	Spurn Head ...	1000·6	-·8	W	5	c	59	85	7	3	4	-	4-6	7-8	4000	0	4
	Tynemouth ...	1000·5	+1·2	NW	2	r. r.	56	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith ...	1001·7	+·8	SW	1	r.	53	95	7	8	8	-	7-8	10	2500	1	1
	Leuchars ...	1001·9	+1·0	W	1	r.	55	95	6	6	2	-	4-6	10	800	1	*
12	Renfrew ...	1003·5	+1·4	NW	2	c/pr	55	95	8	5	7	-	9	9+	1500	1	*
	Eskdalemuir ...	1002·1	+·24	N	2	c	53	85	8	5	-	-	10	10	1500	1	*
13A	Tiree	1003·5	+·6	W	1	c	55	95	7	5	2	-	2-3	9	1500	1	1
13B	Stornoway ...	1002·8	+·4	W	1	c	54	85	8	4	-	-	9+	9+	4000	0	0
15	Dalwhinnie ...	1003·1	+1·0	-	0	iR	50	95	8	4	2	-	9	10	1500	1	*
	Aberdeen ...	1001·5	+·8	NNE	2	r. r.	54	95	7	6	-	-	10	10	800	2	2
	Wick	1001·9	+·2	WNW	2	c	52	85	8	5	3	9	7-8	10	2500	0	2
16	Lerwick ...	999·9	-·4	WNW	3	c	51	85	8	8	-	-	9	9	1500	0	*
17	Blacksod Point	1008·9	0	W	4	c	56	85	8	8	-	-	10	10	800	0	2
18	Malin Head ...	1005·6	+·8	NW	4	cjp	56	95	7	9	6	-	7-8	9+	1500	1	2
	Aldergrove ...	1006·6	+1·2	W	2	c	55	85	8	5	7	-	7-8	9+	1500	1	*
	Donaghadee ...	1005·7	+2·0	WNW	2	c	56	85	7	5	-	-	7-8	7-8	2500	0	1
19	Birr Castle ...	1009·9	+·4	WSW	2	c	56	85	7	3	8	-	1	9	2500	1	*
20	Valentia Obsy.†	1012·6	-·4	W'S	3	o/r	55	95	7	6	-	-	10	10	800	1	4
	Roches Point...	1012·1	+·6	N	3	r.	55	95	8	6	-	-	10	10	1500	1	2

PAST 24 HOURS.

Dist.	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 17th Hrs. (36)
1	London (Kew)...	64	59	57	3	1	0·6
	Croydon ...	64	58	56	3	2	1·8
	S. Farnborough	66	57	54	7	2	0·7
	Winchester ...	62	57	54	7	0·4	0·3
	Boscombe Down	61	56	54	7	Tr	*
	Calshot, (S'thmtn)	64	58	56	7	4	0·5
	Dungeness ...	63	57	*	2	5	*
	Lympne ...	66	56	55	3	6	0·6
2	Shoeburyness	67	58	52	0·5	1	2·4
	Felixstowe ...	67	58	57	Tr	4	1·9
	Gorleston ...	65	56	54	0·2	3	1·4
	Cranwell ...	63	56	55	Tr	1	2·3
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	59	55	54	0·4	-	0·2
	Upper Heyford	63	56	54	4	0·2	*
	Leafield ...	60	55	53	4	0·6	0·2
4	Ross-on-Wye ...	60	56	55	5	-	0·0
5	Portland Bill....	60	58	*	5	6	*
	Plymouth ...	62	57	53	1	2	0·7
	Falmouth ...	62	57	*	Tr	0·2	2·5
	Scilly (St. Mary's)	62	56	*	0·2	0·3	1·2
	Guernsey ...	65	58	57	-	2	4·2
6	Pembroke ...	60	56	*	9	Tr	0·3
7	Holyhead ...	59	56	54	0·1	Tr	0·1
	Chester (Sealand)	62	56	54	0·2	Tr	0·5
8	L'pool (Bidston)	60	54	53	0·2	0·3	1·1
9	Harrogate ...	61	55	54	0·1	1	3·9
10	Spurn Head ...	63	56	*	Tr	1	2·6
	Tynemouth ...	66	54	53	Tr	·7	*
11	Inchkeith ...	61	52	52	0·1	1	3·6
	Leuchars ...	65	54	53	*	1	0·8
12	Renfrew ...	61	53	52	1	2	0·5
	Eskdalemuir ...	58	51	51	2	8	1·3
13A	Tiree	58	53	52	4	2	0·5
13B	Stornoway ...	60	52	*	6	-	1·1
15	Dalwhinnie ...	57	50	50	10	6	1·0
	Aberdeen ...	61	53	52	Tr	3	1·2
	Wick	58	51	*	-	-	*
16	Lerwick ...	55	49	*	Tr	-	0·2
17	Blacksod Point	62	54	*	1	0·1	*
18	Malin Head ...	58	54	*	6	5	0·2
	Aldergrove ...	61	52	50	4	0·5	0·1
	Donaghadee ...	60	53	*	3	0·6	*
19	Birr Castle ...	64	54	51	5	Tr	0·2
20	Valentia Obsy.†	62	54	53	5	2	0·3
	Roches Point...	65	55	*	2	1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	cpr.	ovcr	circ	64	59	57	3	1	0·6	*	*	8
Croydon	217	cpr.	cr. rrrm.	rrRbcr	66	58	56	3	2	1·8	*	*	8
Greenwich (Royal Observatory) ...	149	c	crr	crdd.	71	58	54	3	2	0·7	83	65	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	1·2	*	*	*
Westminster (St. James' Park) ...	27	*	*.	*	?	59	57	4		1·1	79	67	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	0·7	*	*	*
Camden Square	110	c	cor	*	66	59	56	4	-	*	*	71	*
Kensington	80	bccor	or	*	?	56	55	2	1	1·4	At 18h. 54	70	*
Hampstead Observatory	450	bc	bcor	*	63	54	43	4	0·1	0·8	*	78	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 17th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 18th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris						1015·7	SW	6	c	61
Brussels	1015·2	W	3	c	59	1008·9	WSW	6	c/d.	61
Berlin	1012·2	WSW	3	bc	66	1009·6	SW'S	4	c	61
Zurich	1020·3	WNW	2	c	64	1019·6	W	1	r. r.	59
Rome	1016·6	WSW	3	bc	75	1018·2	N'W	2	b	73

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·5	17h. 17th	Nil.	22h. 17th to 5h. 18th.

Kew Observatory. Max.	Time.	Min.	Time.
0·1	11h. 17th	0·1	21h. 17th to 5h. 18th.

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
64	50		Tr
64	57	2	8
70	55	1	Tr
72	57	0·1	1
86	48	-	-

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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 19th July 1931.

No. 25441

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

Districts	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1010.2	+4	WSW	4	r	62	75	8	6	2	-	4-6	10	1500
	Croydon	1010.3	+6	W	4	r.	60	85	7	6	2	-	4-6	10	800
	S. Farnborough	1010.7	+6	WSW	4	r.	60	85	7	5	2	-	4-6	10	2500
	Winchester	1011.4	+4	W	4	r	59	85	7	6	1	-	4-6	10	1500
	Boscombe Down	1011.3	+4	W	3	r.	59	95	8	5	2	-	4-6	10	1500
	Calshot, S'thmtn	1012.0	0	SW'W	5	r	61	85	7	6	7	-	4-6	10	1500
	Dungeness	*	*	SW'W	5	0	*	*	7	8	-	*	10	10	1500
	Lympne	1010.0	+8	W	5	c	63	65	8	8	1	-	7-8	10	4000
2	Shoeburyness	1009.3	+6	W	4	r.	62	75	8	5	2	-	7-8	10	1500
	Felixstowe	1008.2	+14	W	4	c	63	65	8	5	2	-	7-8	10	1500
	Gorleston	1004.8	+8	WNW	5	c	63	75	7	5	6	-	7-8	7-8	2500
	Cranwell	1006.7	+16	W'N	4	c	61	75	8	7	3	-	9	9+	2500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1008.8	+4	W	4	c	61	75	8	6	V-	-	7-8	7-8	1500
	Upper Heyford	1009.7	+10	W	5	c/p	62	75	8	6	-	-	9	9	1500
	Lesfield	1009.5	+10	W	4	c	59	75	9	9	-	-	9+	9+	2500
4	Ross-on-Wye	1009.9	0	W	4	c	62	65	8	8	3	-	7-8	9	4000
5	Portland Bill	1012.5	+2	WSW	6	pr	58	95	6	3	7	-	7-8	10	2500
	Plymouth	1013.7	-2	WSW	4	r.	58	95	7	5	2	-	7-8	10	800
	Falmouth	1015.0	-2	W	4	r.	59	95	7	6	2	-	4-6	10	2500
	Scilly (St. Mary's)	1014.6	-2	W'S	4	r.	58	95	5	5	-	-	10	10	1500
	Guernsey	1015.6	0	WSW	4	0	63	75	7	5	-	-	10	10	2500
6	Pembroke	1011.5	0	W	4	c	59	65	8	8	8	1	7-8	9	1500
7	Holyhead	1009.3	+6	W'S	5	pr	58	75	8	5	-	-	10	10	1500
	Chester (Sealand)	1008.3	+10	WNW	4	c/pr	61	65	8	8	3	-	7-8	9	2500
8	L'pool (Bidston)	1008.1	+8	W'N	6	r	60	75	9	7	3	8	4-6	7-8	4000
9	Harrogate	1004.6	+26	SW	5	r	61	75	8	3	7	-	7-8	9+	2500
10	Spurn Head	1003.3	+6	NW'W	7	c/pr	60	85	7	3	3	-	7-8	9+	4000
	Tynemouth	1004.2	+10	N	2	r.	56	95	7	6	-	-	10	10	1500
11	Inchkeith	1003.9	+6	SSW	1	c	58	95	8	7	-	-	9+	9+	4000
12	Leuchars	1003.9	+10	SE	1	c/r	58	85	8	8	3	-	9	9+	1500
	Renfrew	1003.9	+10	W	3	c	61	85	8	8	7	-	7-8	9+	1500
	Eskdalemuir	1004.5	+6	NW	5	c	58	75	8	5	-	-	10	10	2500
13A	Tiree	1005.2	+6	W	3	c/d	59	85	8	9+	7	-	7-8	9+	2500
13B	Stornoway	1003.4	+4	WNW	3	c	61	65	9	7	7	9	4-6	7-8	4000
15	Dalwhinnie	1003.6	+2	SW	2	c	58	75	8	4	2	-	7-8	10	4000
	Aberdeen	1003.5	+6	E	1	r.	57	85	7	9	-	-	10	10	1500
	Wick	1002.4	+4	WNW	2	c	55	85	8	5	-	8	7-8	10	2500
16	Lerwick	999.5	0	WNW	3	c	54	65	8	5	-	-	7-8	7-8	1500
17	Blacksod Point	1009.2	+2	W	4	r	56	95	6	6	-	-	10	10	4150
18	Malin Head	1006.8	+2	WSW	4	c/p	56	95	7	9	3	-	7-8	9+	1500
	Aldergrove	1008.3	+14	W	3	r.	57	85	7	8	1	-	4-6	10	1500
	Donaghadee	1007.4	+10	WNW	2	r.	57	95	7	6	-	-	7-8	7-8	1500
19	Birr Castle	1009.6	-2	W	2	c	61	75	8	5	1	-	7-8	9+	2500
20	Valentia Obsy.	1011.4	-6	SW	2	0	63	95	8	5	-	-	10	10	800
	Roches Point	1012.0	0	W	3	c	58	95	5	6	-	-	9+	9+	2500

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

Districts	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	°F. Temp. (20)	% 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)	1010.1	-6	WSW	4	c	65	65	8	8	3	1	2-3	7-8	2500	1	*
	Croydon	1010.5	-2	W'S	4	c	61	75	8	7	3	3	2-3	9	2500	1	*
	S. Farnborough	1010.7	-6	SW'W	4	c	62	75	8	1	3	2	1	7-8	2500	1	*
	Winchester	1011.3	-4	W'S	4	bc	59	85	8	4	3	3	2-3	4-6	2500	1	*
	Boscombe Down	1011.3	-2	W	4	c	59	85	8	7	7	1	4-6	9	2500	1	*
	Calshot, S'thmtn	1012.1	0	WSW	2	c	61	85	8	5	7	8	4-6	7-8	1500	0	-
	Dungeness	*	*	SW	4	iD	*	*	4	3	-	*	9+	9+	800	*	3
	Lympne	1010.6	-4	W'S	5	c	58	85	7	5	2	-	4-6	10	1500	1	*
2	Shoeburyness	1009.6	-2	WSW	3	c	62	75	8	5	7	-	7-8	9+	4000	1	*
	Felixstowe	1009.3	+8	NW'N	4	c/pr	60	85	9	5	2	-	7-8	9+	1500	1	2
	Gorleston	1006.4	+6	W'N	3	c	63	75	7	8	-	-	7-8	7-8	2500	0	3
	Cranwell	1007.8	+4	W	3	bc	61	75	8	2	3	-	2-3	4-6	2500	0	
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1009.6	0	WNW	3	r.	58	85	8	6	3	-	7-8	7-8	1500	1	*
	Upper Heyford	1009.8	+2	W	5	c	62	65	8	7	7	2	4-6	7-8	2500	1	*
	Lesfield	1010.0	0	W'S	3	c	59	75	9	9	9	1	7-8	9	1500	1	*
4	Ross-on-Wye	1010.1	0	W	2	c	61	75	9	7	-	1	7-8	7-8	4000	1	*
5	Portland Bill	1011.9	-4	W	5	c/pr	60	85	7	8	7	9	4-6	9	2500	1	4
	Plymouth	1012.7	-6	W	3	c/d	59	95	6	5	3	-	9+	9+	4150	1	2
	Falmouth	1013.7	-4	WSW	3	c/d	59	95	5	5	2	-	7-8	10	2500	1	1
	Scilly (St. Mary's)	1013.0	-10	W'S	4	c	59	95	7	5	7	-	4-6	9+	4000	1	3
	Guernsey	1014.6	-8	WSW	3	d.	60	95	5	6	-	-	10	10	1500	1	3
6	Pembroke	1010.6	-4	W	3	c	57	95	8	2	3	-	2-3	9+	2500	0	2
7	Holyhead	1009.4	-2	SSW	3	c	59	75	8	8	-	-	9+	9+	5700	0	0
	Chester (Sealand)	1009.1	+4	W'N	3	c/pr	57	85	8	3	-	-	9	9	2500	1	*
8	L'pool (Bidston)	1008.9	0	WNW	4	c	57	75	9	8	-	-	9	9	2500	0	*
9	Harrogate	1006.9	+6	SW	4	bc	58	75	8	9	8	-	1	4-6	2500	1	*
10	Spurn Head	1005.3	.	NW'N	5	c	61	85	7	4	4	9	2-3	9+	4000	0	3
	Tynemouth	1005.7	+6	N	2	c	56	95	7	6	-	-	7-8	7-8	1500	1	2
11	Inchkeith	1004.2	0	WSW	3	c	57	85	8	5	3	-	4-6	9	4000	0	1
12	Leuchars	1004.4	+2	ESE	1	pr	57	95	8	9	7	-	9	9+	800	1	*
	Renfrew	1005.8	+2	NW'W	3	c	59	75	9	8	3	-	7-8	7-8	1500	1	*
	Eskdalemuir	1005.1	+2	NW	4	bc	60	75	8	8	1	-	4-6	4-6	2000	1	1
13A	Tiree	1005.8	0	W	3	c	57	85	8	5	6	-	2-3	7-8	2500	0	1
13B	Stornoway	1003.8	+2	WNW	2	c	59	75	8	8	7	8	4-6	9	4000	0	1
15	Dalwhinnie	1003.5	+4	W	2	c	57	65	8	4	-	-	8	8	4000	0	
	Aberdeen	1003.6	-2	SSW	2	r.	56	85	7	6	3	-	7-8	9	1500	1	1
	Wick	1002.6	0	WNW	2	c	57	95	8	8	6	8	4-6	7-8	2500	0	1
16	Lerwick	999.0	0	WNW	3	c	52	65	8	5	-	-	4-6	7-8	1500	0	*
17	Blacksod Point	1008.8	0	W	3	c	57	85	9	8	-	-	7-8	7-8	800	0	2
18	Malin Head	1007.9	0	WNW	4	c	56	85	7	8	6	-	7-8	9+	2500	0	2
	Aldergrove	1007.7	-2	SSW	2	pr	56	95	8	9	1	-	4-6	10	2500	1	*
19	Birr Castle	1007.4	0	-	0	c	55	95	7	5	3	-	4-6	7-8	1500	1	0
20	Valentia Obsy.	1008.3	-4	W	1	c	61	85	8	8	1	-	7-8	10	2500	1	*
	Roches Point	1011.8	+2	WSW	3	d.	59	95	7	5	-	-	9+	9+	800	1	3

PAST 24 HOURS.

Districts	Stations. (For heights see p. 4.)	Weather. 7h.–13h. 18th (37)	13h.–18h. 18th (38)	18h. 18th to 1h. 19th (39)	1h.–7h. 19th (40)
1	London (Kew)	r.	c p. c	bc	cb
	Croydon	c r.	r. r. u	b c i r c	c r r m.
	S. Farnborough	c r, c	c r c d e	c b, c	c o r c d.
	Winchester	c i r. c r	c r c b c	*b c	b c e i r
	Boscombe Down	c i r.	c r r c	c b c	c p r o r
	Calshot, S'thmtn	p	r	b c	c d. d.
	Dungeness	o	d	*	o
	Lympne	c	r p. r c	b w e m.	c p r d.
2	Shoeburyness	c	c i r. c e	c b c	c p. r c
	Felixstowe	c q	c q v p r c	c v	c b c
	Gorleston	c q	c q	c b c c	c
	Cranwell	c	c p r.	b c c m.	c m. p r
3	Cardington	*	*	*	c p r
	Birmingham	c b a c	c p r.	c b c b	b c e i r
	Upper Heyford	c d. r.	c b e j b	b c c	c p. r
4	Ross-on-Wye	i r. c	c p.	b c c	c o c
5	Portland Bill	c i p.	p. c b c c v	b c p. c	c p. c
	Plymouth	c p r. p r	c p r	c f d r f	a b f c
	Falmouth	c p r. i r.	o d. m r c	c d m.	c b c
	Scilly (St. Mary's)	c i d. m.	c i r.	c d. m.	c b c p.
	Guernsey	c i d.	s i d f c	c i d c m	b c c
6	Pembroke	o i d. o	o d. d.	o r. p r	o P R e
7	Holyhead	c i r.	c	c	c b c
	Chester (Sealand)	c	p r c	c i r. c	R e
8	L'pool (Bidston)	c q p r. v q v c	p r q c v a g v c v	C c o P R	r c p r q r P R c
9	Harrogate	c q	c b c	b c b	b c e i r
10	Spurn Head	c q	c q	c b c	c r r
	Tynemouth	o r. r.	o r r	c p o	o c
11	Inchkeith	i r. c	c i r	c	c
12	Leuchars	c r. m. r	c P R	c p r	c p o r. c
	Renfrew	c	c p. c v	c v	c v
	Eskdalemuir	c p r c	c p r b c	b c c	c
13A	Tiree	c d.	b c c	c	c p r.
13B	Stornoway	c	c	c p. o r	
15	Dalwhinnie	c	c	c	c
	Aberdeen	Y c i r.	c i r.	c i r b c	c i r
	Wick	c	c	c p r. c	c
16	Lerwick	c	c	c o i r.	o i r. o
17	Blacksod Point	i d.	i d.	p r e q	p r e q
18	Malin Head	c p r	c p r c	c p. c p. c	c p. r c p
	Aldergrove	c v c r	i r. p r	c p r	c p r
19	Birr Castle	c i r.	c i r. c	c p. r c	c b c
20	Valentia Obsy.	c i r.	c i r	c p r	c p r
	Roches Point	c i r. i d. r.	c i d. c	c p. r c	c p. r c p r

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

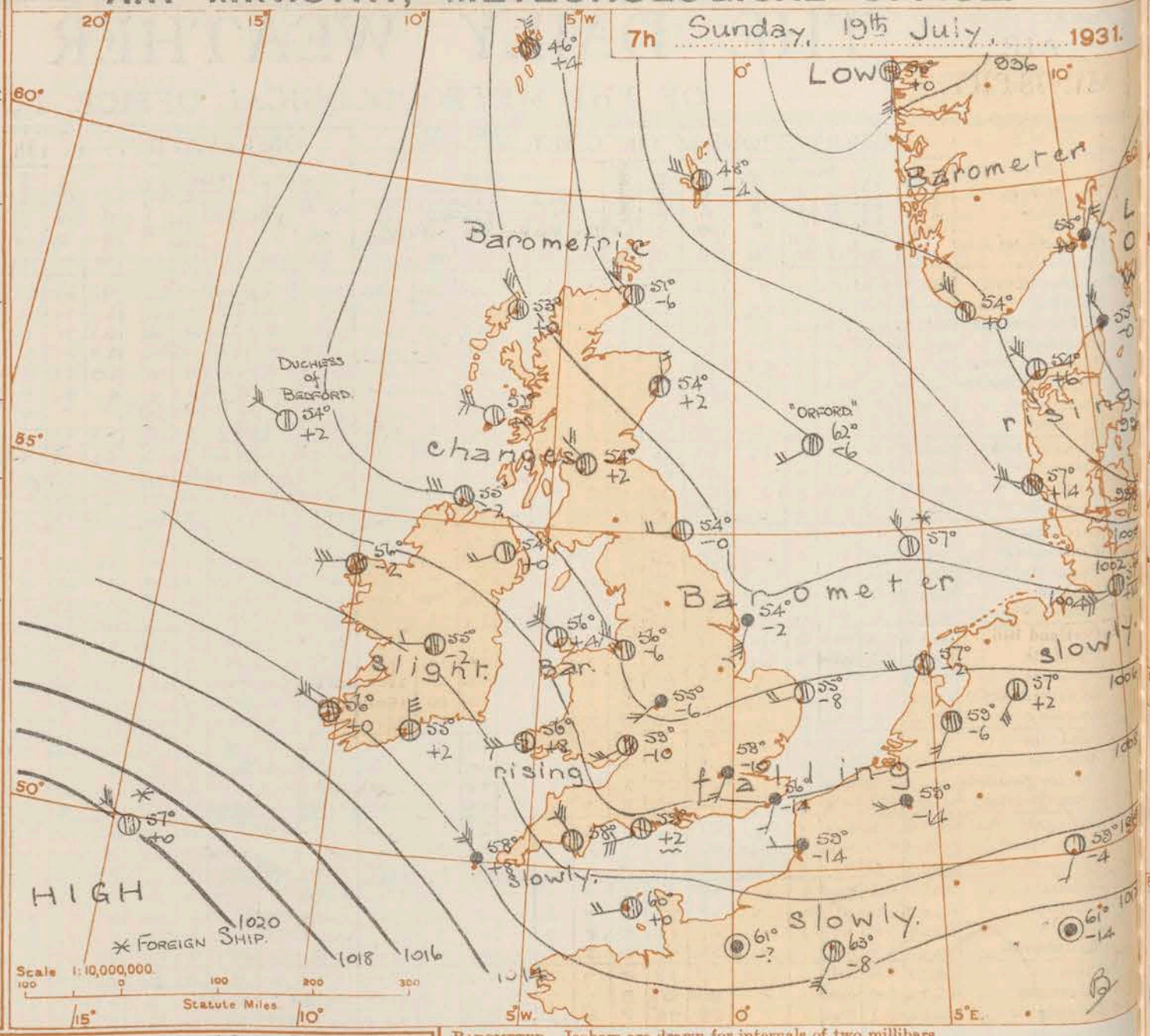
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 18th July 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 17th to 9h. 18th	Temperature. Max. 9h.—17h. 18th	Rainfall. Night. 17h. 17th to 9h. 18th	Rainfall. Day. 9h.—17h. 18th	Sunshine. Sunrise to 17h. 18th	Sunshine. Sunrise to Sunset. 17th.
1	Tunbridge W.	aco	oro	57	64	6	1	0.5	2.2
	Bournemouth	coco	olod	57	65	13	2	1.0	0.0
	Ventnor ...	orc	odd.	56	61	19	0.5	0.6	0.6
	Southsea ...	co	op	59	63	5	1	0.0	1.3
	Bognor Regis	bcc	oiro	58	64	6	1	0.4	1.9
	Littlehampton	c	cpc	58	63	8	0.4	0.5	2.8
	Worthing ...	co	or.c	59	64	8	0.5	0.7	2.3
	Brighton ...	cbc	rc	59	64	8	0.4	1.3	3.3
	Eastbourne†	co	orro	57	62	16	0.6	0.7	1.2
	Hastings† ...	c	cop.	57	63	12	0.6	0.6	1.5
	Folkestone ...	co	oroc	58	64	8	0.5	0.5	1.0
	Dover... ...	c	copc	58	65	5	0.4	0.2	0.3
	Deal	o	oro	58	65	4	0.5	0.2	1.0
	Ramsgate ...	c	crc	58	64	3	0.6	0.3	2.3
	Margate ...	c	cr	58	64	2	0.6	0.0	1.7
2	Southend ...	or.	odc	58	63	2	Tr.	0.7	1.4
	Maldon ...	c	cbcc	57	67	2	-	1.5	1.2
	Clacton-on-Sea	c	cp.c	59	66	4	Tr.	0.5	1.7
	Dovercourt ...								
	Lowestoft ...	oirc	co	55	65	2	-	2.0	2.4
	Skegness ...	oc	bcc	55	65	Tr.	-	3.0	1.1
	Mablethorpe	ocw.	cocp.	56	65	0.5	Tr.	0.8	1.0
	Cleethorpes...	oc	cr.o	56	64	-	Tr.	0.5	2.5
3	Leamington S.	oc	bcc	56	64	2	-	1.4	0.8
4	Cheltenham†	cp.c	cp.c	57	65	1	Tr.	0.7	0.1
5	Bath	cr.	r.cbc	58	64	4	Tr.	1.2	0.0
	Weymouth ...	cbcc	cdpc	58	64	16	2	1.1	0.4
	Jersey ...	rcbc	c	59	64	2	-	1.7	2.2
	Torquay ...	drq.obc	fodpcb	58	64	2	0.5	1.0	0.5
	Penzance ...	cid	combd	57	63	1	0.5	0.0	1.4
	St. Ives ...	c	pr.	57	62	0.3	0.3	0.0	3.1
	Bude	codr	c	58	60	2	1	0.7	0.0
	Ilfracombe ...	cpc	bcpc	59	62	1	1	1.9	0.0
6	Aberystwyth	omrc	cbc	55	61	0.3	-	2.4	0.0
7	Llandudno ...	c	cp.c	56	62	Tr.	Tr.	1.3	1.5
	Colwyn Bay...	cbcc	cbcrc	56	64	0.3	2	2.1	0.9
	Rhyl								
8	Wallasey ...	c	cbcc	55	63	0.3	-	1.2	0.8
	Southport‖ ...	ocbc	bcr.	56	62	6	Tr.	1.9	0.6
	Blackpool ...	cp	c	56	61	7	0.1	1.1	0.3
	Morecambe ...	cbcc	dpbbc	55	61	-	Tr.	1.5	0.3
9	Ilkley... ...	c	c	54	62	3	Tr.	0.3	0.3
10	Berwick-on-T.	or.	r.oc	52	58	6	0.4	0.1	3.0
11	Dunbar ...	cr.	or.rr	52	58	3	.5	0.0	3.2
12	Douglas ...	o	cidcb	53	60	3	0.3	2.0	0.3

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 19th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Wind west to northwest, moderate or fresh and squally; bright intervals, showers of a thundery type· rather cool.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind between northwest and west, fresh and squally; bright intervals, showers of a thundery type; rather cool.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 3.
12. S.W. Scotland & Isle of Man	As 4 - 8.
13. A. W. Scotld. B. N.W. Scotland	Wind between west and north, moderate, fresh locally; bright intervals; showers; rather cool.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 8.

H.M. Stationery Office Press, Kingsway W.C.2.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force.
Temperature is given in degrees F. Calm. - ⊙
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ϒ Thunder. ⚡ Thunderstorm.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

Pressure is high southwestward of Ireland and low over Scandinavia. Small secondaries are passing east or southeast across the British Isles. Winds will be moderate or fresh and squally from between west and northwest and weather rather cool with thundery showers.

FURTHER OUTLOOK.

Bright periods; showers.

Forecasts issued at 1100 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

Morning of
SUNDAY,
19th. JULY,
1931.

Clarke's Projection Scale 1: 4×10^7 along meridian at 55°N
Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 19th July 1931.

No. 25441

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1010·3	-2	WSW	3	c	58	95	7	5	7	-	2-3	9	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1011·5	-4	SW'W	3	c	58	95	7	5	9	-	4-6	7-8	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1010·3	+10	W'S	3	c	53	95	6	5	2	-	7-8	9+	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1007·9	-4	W	2	c	57	95	7	4	2	-	4-6	9	2500
	Cranwell ...	240	1007·8	-6	WSW	3	c	53	95	6	5	7	-	4-6	9+	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1010·0	-14	WSW	4	df	58	95	3	5	-	-	10	10	800
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1011·8	-4	W	3	c	59	95	6	5	-	-	7-8	7-8	4000
	Scilly (St.Mary's)	163	1012·2	-6	WNW	4	c	57	95	7	5	-	-	9+	9+	4000
	Guernsey ...	175	1012·7	-20	SW	1	0	59	95	6	5	-	-	10	10	2500
6	Pembroke ...	142	1008·3	+6	W	3	c	58	95	7	5	-	-	9	9	1500
7	Holyhead ...	26	1007·3	-14	SW'W	4	c	56	95	7	6	2	-	7-8	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1006·4	0	WNW	4	bc	55	85	7	-	7	-	0	4-6	-
	Tynemouth ...	67	1004·9	0	W	3	0	54	85	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1004·7	+4	WSW	3	c	52	95	8	5	3	-	4-6	7-8	4000
	Leuchars ...	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1004·3	0	NNW	2	c	51	95	8	4	-	-	7-8	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1002·7	+2	WNW	2	c	50	85	8	8	2	8	4-6	10	1500
16	Lerwick ...	54	998·5	-6	W	3	c/c	48	95	7	6	2	-	4-6	10	1500
17	Blacksod Point	18	1009·7	+2	W	4	c	55	85	7	8	-	-	7-8	7-8	800
18	Malin Head ...	52	1006·9	-4	W'N	3	c/p	53	95	7	8	7	-	7-8	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1013·2	+6	W	4	c/pr	55	95	8	8	-	-	7-8	7-8	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	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)
1007·1	-12	SW	2	c	60	85	8	5	2	-	9	10	1500	1	*
1007·6	-10	SW'S	2	ir$_o$	58	95	7	6	2	-	9	9+	1500	1	*
1007·1	-10	SW	2	id$_o$	59	95	7	6	-	-	9+	9+	800	1	*
1007·2	-8	W'S	3	c	58	95	8	5	-	-	7-8	7-8	1500	1	*
1007·6	-6	SW	3	o/r	58	95	6	6	-	-	10	10	450	1	*
1008·6	-12	WSW	2	c	60	85	8	5	3	-	7-8	9	1500	1	1
*	*	SW	1	dd	*	*	5	6	-	*	10	10	2500	*	0
1007·7	-14	SW	1	id$_o$	56	95	6	5	-	-	9	9	2500	1	*
1007·3	-6	SW	2	c	59	85	7	5	7	-	2-3	7-8	5700	1	*
1007·2	-16	WSW	1	c	58	85	7	5	3	-	4-6	7-8	5700	0	0
1006·1	-8	WSW	2	c	55	95	7	-	3	-	0	7-8	-	0	1
1005·0	-16	SW'S	3	ir$_o$	56	95	6	6	3	-	7-8	9+	1500	1	*
1006·2	-14	SW	3	c/pr	59	85	8	5	3	-	9	9+	1500	*	*
1005·7	-6	SW	2	pr	55	95	7	9	-	-	7-8	7-8	1500	1	*
1006·4	-10	SW	3	c	57	95	8	5	-	-	10	10	450	1	*
1006·2	-10	SW	3	c	57	95	8	5	8	-	9+	9+	1500	1	*
1006·8	-10	WSW	3	c	59	95	8	8	-	-	9+	9+	4000	1	*
1008·3	+2	W'S	4	c	59	95	7	3	4	-	4-6	7-8	1500	1	4
1010·2	+10	NW	4	c	58	85	8	8	-	-	9	9	2500	1	1
1012·5	+6	NW'W	5	q$_r$	57	95	8	3	3	-	2-3	4-6	4000	0	2
1012·9	+8	NW'N	5	r$_r$	58	85	7	3	4	-	4-6	7-8	2500	1	3
1010·8	0	W'S	2	c	60	95	8	8	-	-	9+	9+	1500	1	3
1009·3	+8	W	4	bc	56	85	8	8	8	1	2-3	4-6	1500	0	2
1007·7	+4	NW'N	5	c	56	85	8	2	4	-	7-8	7-8	1500	5	2
1006·0	+6	WNW	4	c/d	56	85	8	5	-	-	9	9	1500	1	*
1005·6	+2	NNW	5	c	55	95	9	9	-	-	9+	9+	1500	1	*
1004·5	-6	SSW	2	ir$_o$	54	95	8	6	7	-	7-8	9+	2500	1	*
1004·4	-2	SSW	2	rr	54	95	6	6	2	-	7-8	10	2500	1	2
1004·7	-4	W	1	c	55	85	7	4	-	-	7-8	7-8	4000	0	2
1004·2	0	WSW	3	c	52	85	8	5	4	-	9	9+	4000	0	1
1003·7	-2	W	3	p$_o$	55	85	9	4	6	-	7-8	10	4000	1	*
1005·5	+2	NW	2	c	54	85	8	8	-	-	9+	9+	2500	1	*
1004·4	0	WNW	4	c	53	85	8	5	-	-	10	10	1500	1	*
1005·0	0	WNW	4	c/pr	52	85	7	9	7	-	4-6	9	1500	1	2
1004·2	0	NW	3	c	53	75	8	4	6	-	7-8	9+	2500	1	2
1004·3	-2	SW	1	c	50	95	8	3	2	-	4-6	10	800	1	*
1003·0	-2	NNW	1	c/r	54	95	8	6	3	-	4-6	9	1500	1	1
1001·5	-6	N'N	3	c	51	75	8	5	2	8	4-6	10	1500	0	2
998·2	-4	N'N	3	c	48	95	8	8	2	-	7-8	10	1500	1	*
1009·2	-2	W	4	c	56	85	8	8	-	-	10	10	800	0	3
1006·0	-2	W'N	3	c/p	55	85	7	8	7	-	4-6	9+	2500	0	1
1007·0	0	WSW	2	c	54	85	9	5	-	-	7-8	7-8	2500	1	*
1006·3	0	WNW	1	bc	54	95	8	5	3	-	4-6	4-6	2500	0	0
1009·1	-1	W	1	c	55	95	8	5	1	-	7-8	9+	2500	1	*
1012·1	0	WNW	4	c/p	56	85	8	6	4	-	7-8	9+	1500	1	3
1011·2	+2	N	3	bc	55	85	9	3	-	-	2-3	2-3	1500	0	2

PAST 24 HOURS.

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 8th Hrs. (36)
65	55	52	0.1	-	0.6
62	55	52	0.6	0.6	0.4
64	52	43	0.3	1	2.1
63	52	46	0.4	2	1.3
61	53	48	1	6	*
64	56	53	0.5	0.2	0.6
63	57	*	1	Tr.	*
63	53	51	1	1	0.8
64	54	51	Tr.	Tr.	0.8
65	54	52	0.1	-	1.1
63	54	51	-	-	3.8
63	52	50	Tr.	0.5	3.3
*	*	*	*	*	*
62	54	52	Tr.	3	1.4
66	53	49	Tr.	0.3	*
63	53	47	0.1	-	2.3
66	55	54	Tr.	0.1	3.3
60	57	*	1	0.3	*
60	57	54	0.3	0.5	0.4
61	57	*	0.1	0.4	0.0
60	55	*	0.2	0.4	0.0
63	59	57	0.2	4	0.1
62	52	*	0.5	0.1	1.1
60	57	54	0.3	0.5	0.4
61	55	53	1	5	1.3
63	53	53	-	10	2.6
63	53	51	-	1	2.4
63	54	52	Tr.	7	4.6
61	55	53	1	5	1.3
59	52	50	3	2	0.3
59	49	*	-	Tr.	*
55	47	*	-	1	5.1
58	53	*	1	1	*
59	53	*	1	0.4	2.6
62	50	44	1	1	1.3
61	54	*	3	0.4	*
62	52	51	0.3	2	1.3
61	54	50	2	1	0.5
62	53	*	3	1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	cr$_o$	cpr$_o$c	bccb	65	55	52	0.1	-	0.6	*	*	7
CROYDON	237	cr$_o$r$_o$	cr$_o$r$_o$u	bcr$_o$r$_{rr}$	62	55	51	0.6	0.6	0.4	*	*	8
GREENWICH (Royal Observatory) ...	149	c	cir$_o$d	cbccp	65	55	48	0.3	Tr.	0.6	82	81	6
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.4	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	65	56	53	0.5	*	0.3	84	82	*
REGENTS PK. (Botanic Gardens) ...	163	*	*	*	*	*	*	*	*	0.0	*	*	*
CAMDEN SQUARE	110	c	ccp	*	63	55	53	2	-	*	*	87	*
KENSINGTON	80	c0	codc	*	63	55	51	1	Tr.	0.4	At 18h. 71	85	*
HAMPSTEAD OBSERVATORY	450	Cor	bc	*	62	51	37	4	Tr.	0.5	*	87	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
0·5	16h 18m	N.?	0-6h 19th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0·1	15h 19h	To·1	0-3h 19h

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 19th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Th. G.M.T. 19th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1014·2	W	1	c/pr	64	1010·7	SW	4	c	63
BRUSSELS	1011·5	WSW	3	c/o	59	1008·4	WSW	2	ir$_o$	59
BERLIN	1005·4	SW'S	3	c	66	1006·0	W'S	3	d$_o$d$_o$	55
ZÜRICH	1016·4	NNW	1	c	70	1014·2	W	1	c	64
ROME	1016·7	WSW	2	b	73	1015·1	-	0	bc	72

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
70	61	3	9
66	55	1	0.4
68		2	
70	59	1	-
68	64	-	-

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.

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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† The observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 20th JULY 1931.

No. 25,442

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1005.6	0	W'N	3	c/pr	62	75	8	8	2	-	7-8	9+	1500
	Croydon	1005.9	-2	WNW	3	pr.	59	85	7	8	2	-	4-6	9+	800
	S. Farnborough	1006.0	+6	WNW	2	pr.	61	75	7	9	5	-	9	9+	1500
	Winchester	1006.6	+6	NW	5	c	63	65	8	8	-	-	7-8	7-8	2500
	Boscombe Down	1007.3	+6	WNW	5	pr.	60	75	7	8	-	-	9+	9+	1500
	Calshot, S'thmtn	1007.8	0	WNW	5	q	63	65	8	8	3	-	4-6	7-8	2500
	Dungeness	*	*	SW	3	c	*	*	7	8	3	*	4-6	7-8	1500
	Lympne	1004.8	-12	W'S	4	PR	60	95	7	9	-	-	10	10	1500
2	Shoeburyness	1004.4	-14	WNW	3	c/tlr	65	75	8	8	7	-	4-6	7-8	4000
	Felixstowe	1004.0	-14	W	4	tlr	57	95	5	6	2	-	9	10	800
	Gorleston	1002.6	-16	WNW	3	tlr	63	95	6	6	-	-	10	10	1500
	Cranwell	1004.8	+6	WNW	3	cr.	55	95	6	9	2	-	9	9+	1500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1006.3	+2	WNW	3	c	59	65	8	9	-	-	9	9	1500
	Upper Heyford	1006.2	+6	NW'W	4	c/p	58	75	9	9	-	-	9+	9+	2500
	Leafield	1006.0	0	W'N	5	c	59	65	9	8	3	-	7-8	9+	4000
4	Ross-on-Wye	1007.2	0	W'N	4	c/p	62	65	8	8	-	-	9	9	4000
5	Portland Bill	1008.3	+4	W	4	c	62	75	8	8	7	-	4-6	7-8	2500
	Plymouth	1010.4	-2	WNW	5	c	62	65	8	8	-	1	7-8	7-8	2500
	Falmouth	1011.8	-2	WNW	5	q	61	75	8	8	8	-	4-6	4-6	4000
	Scilly (St. Mary's)	1013.1	0	NW'W	5	pr.	63	85	7	3	4	-	4-6	7-8	2500
	Guernsey	1011.1	+2	W	5	bc	63	75	8	7	4	-	4-6	4-6	2500
6	Pembroke	1009.0	-2	W	4	c/r	56	95	8	6	6	-	2-3	7-8	1500
7	Holyhead	1007.6	-2	W'S	5	u	61	85	8	8	8	9	7-8	7-8	1500
	Chester (Sealand)	1006.3	+2	NW'W	4	c	59	65	9	4	3	-	4-6	7-8	2500
8	L'pool (Bidston)	1005.7	0	WNW	3	c	56	75	9	7	3	8	4-6	9	2500
9	Harrogate	1004.2	-6	SSW	3	c do.	58	75	9	9	2	-	7-8	10	2500
10	Spurn Head	1003.3	0	N'E	3	c	61	75	7	1	3	-	4-6	4-6	4000
	Tynemouth	1003.4	0	N	1	pr.	58	85	7	6	-	-	9	9	1500
11	Inchkeith	1004.0	0	WNW	1	c/pr	57	85	8	8	4	1	7-8	9	4000
12	Leuchars	1003.4	-2	E	3	c	59	85	8	3	6	-	9	9+	1500
	Renfrew	1004.5	-2	WNW	3	bc	62	65	9	2	7	-	4-6	7-8	2500
	Eskdalemuir	1003.9	0	N'W	3	c	57	65	8	5	2	-	7-8	10	4000
13A	Tiree	1006.2	+4	NNW	4	c/pr	55	85	8	5	1	-	4-6	7-8	2500
13B	Stornoway	1005.8	+10	N	3	c	54	75	9	8	2	4	4-6	9	2500
15	Dalwhinnie	1004.1	+4	NW	1	c	55	65	8	4	-	-	[illegible]	[illegible]	4000
	Aberdeen	1003.5	0	[illegible]	3	c	57	75	8	9	-	-	9+	9+	1500
16	Lerwick	1002.7	+6	NW	3	c	55	75	8	8	2	-	7-8	10	1500
17	Blacksod Point	998.8	+8	N'W	3	cr.	50	85	7	8	2	+	7-8	10	1500
18	Malin Head	1003.6	+14	NW	6	c	60	85	8	8	-	-	10	10	800
	Aldergrove	1006.7	+6	NNW	3	c/p	59	85	8	8	6	9	2-3	4-6	2500
	Donaghadee	1006.1	-6	WSW	3	PR	59	75	7	9	-	-	9+	9+	1500
19	Carr Castle	1005.9	-2	NNE	2	c	57	85	8	7	3	-	4-6	7-8	2500
20	Valentia Obsy.	1008.4	-6	SW	3	pr	56	95	7	9	7	-	7-8	9+	2500
	Roches Point	1013.7	+4	W'N	5	c/pr	60	85	8	8	3	-	7-8	9	1500
		1010.6	-4	N	4	c	61	75	9	6	-	-	7-8	7-8	2500

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

Barom. at M.S.L. mb. (15)	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)
1006.7	+6	NW	3	pr.	60	65	8	9	8	-	7-8	9	1500	1	*
1006.2	+2	W'N	3	c/p	58	75	7	8	2	-	4-6	9	1500	1	*
1006.2	+2	WNW	2	pr.	63	75	6	3	9	2	7-8	7-8	2500	1	*
1007.0	-2	WNW	4	pr	61	75	8	8	-	-	7-8	7-8	2500	1	*
1007.1	-2	WNW	4	bc	59	75	8	8	-	-	7-8	7-8	2500	1	*
1007.8	-2	WNW	4	bc	62	65	9	8	-	-	7-8	7-8	4000	0	1
*	*	W	3	c	*	*	7	8	7	*	4-6	9	1500	*	2
1005.6	+6	W	3	c/pr	60	75	8	8	6	-	4-6	9	2500	1	*
1005.5	+10	N'W	3	c/p	58	85	7	8	-	-	9+	9+	4000	1	*
1004.6	+4	NW'N	3	c	61	75	7	5	-	-	9+	9+	1500	1	1
1003.3	+4	NW'W	3	o/r	57	95	6	6	-	-	10	10	1500	1	2
1004.5	-2	W-NW	1	c/pr	58	85	6	8	2	-	9	10	1500	1	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1006.4	+6	NW	3	tlr	56	75	6	9	2	-	4-6	7-8	1500	1	*
1006.6	0	NW	3	c/p	57	75	9	9	7	3	4-6	7-8	1500	1	*
1006.4	+6	NNW	2	c/pr	58	75	8	9	6	-	7-8	7-8	1500	1	*
1007.2	0	W'N	2	c/pr	59	85	8	9	4	1	4-6	7-8	4000	1	*
1008.3	0	W'N	4	c/pr	60	75	8	8	6	-	4-6	7-8	2500	0	4
1010.3	+2	WNW	5	c	60	75	8	8	-	-	9	9	2500	1	2
1011.4	-2	W'N	4	q	59	85	8	2	8	-	4-6	4-6	4000	0	3
1012.2	-4	NW	6	q	59	85	7	2	-	-	7-8	7-8	4000	0	4
1011.2	0	W	5	c	60	85	7	7	4	-	7-8	7-8	2500	0	4
1008.0	-4	W	3	c/r	58	85	8	8	6	-	4-6	7-8	2500	1	2
1007.6	0	WSW	4	u	57	85	8	8	8	3	4-6	4-6	1500	1	1
1006.1	+2	NW'W	4	bc	60	75	9	8	3	4	4-6	4-6	4000	1	*
1005.8	0	WNW	4	bc	58	75	9	1	3	1	4-6	4-6	1500	0	*
1004.7	+6	SW	2	cr.	55	85	8	9	-	-	9+	9+	2500	1	*
1003.9	0	NE'N	2	pr.	56	95	6	3	2	-	4-6	9+	2500	1	1
1004.1	+6	NNE	2	cr.	54	95	7	6	-	-	9	9	1500	1	2
1004.3	+10	ENE	1	c	55	95	8	8	6	-	4-6	7-8	2500	1	0
1004.7	+6	ESE	1	c	58	85	8	8	3	3	4-6	9	1500	1	*
1005.4	+10	WNW	4	bc	60	65	9	7	-	2	1	4-6	2500	1	*
1004.7	+6	SE	1	c/pr	53	85	8	5	2	-	4-6	7-8	2500	1	*
1008.3	+14	NW	5	c	55	75	8	8	7	-	3-4	7-8	2500	1	3
1007.8	+8	NNW	3	c	51	95	8	3	2	-	7-8	9+	2500	1	2
1007.0	+16	N	1	c	52	75	8	6	6	-	7-8	10	2500	0	*
1004.9	+18	NW	4	c/r	54	75	8	9	7	-	4-6	7-8	1500	1	1
1004.4	+8	NW	3	cr.	50	95	8	8	2	-	7-8	10	1500	1	2
1002.2	+20	NW	3	c	49	85	7	8	4	-	7-8	9+	1500	1	*
1013.0	+20	N	6	c	55	85	8	8	-	-	9+	9+	850	1	4
1009.5	+20	N'W	4	c/p	55	85	8	8	-	-	9+	9+	2500	0	2
1008.6	+14	NW	4	pr	56	75	8	9	-	-	9	9	2500	1	*
1007.1	+12	NE	3	bc	57	75	8	8	-	2	2-3	4-6	2500	0	2
1008.7	+8	NW	2	c	58	85	8	8	-	8	7-8	9	2500	1	*
1014.6	+10	NW	5	c	58	85	8	8	-	-	7-8	7-8	1500	1	3
1010.6	+6	N	5	bc	59	75	9	6	-	-	4-6	4-6	1500	0	3

PAST 24 HOURS.

Weather. 7h.–13h. 19th (37)	13h.–18h. 19th (38)	18h. 19th to 1h. 20th (39)	1h.–7h. 20th (40)
cPRqt	ci prbcq	cpr bc	c
cptlr	cpr	becpq	bccmq
pbccp	bcqpt	tlRc	ir cp
tprc	cprqc	~~cprbcq~~	bwbc
or.c	cpr bc	cpr	cbc
cPRhq	pr	bc	bc
c	tlr	*	bc
cPR	ctPR	clb	bwcrm
cipr Hmq	ciPR	cipr	c
becprtlr	ctlRpr.	cr	c3.
cbc pr.	otlir	oir.c	or.r ir.
cir. ir	ci pr.	cm.	cr.r
*	*	cp. bc	bcc
cpr	cpr	cbcb	tlRir
Pq P.	cRr	bccp	ccarv
pbccP	cbccp	cPRbc	bcb
p.cc	cvcP	bccv	bc
cc	c	cbc	bc
bcc	cpr. bc	bccpr	bccpr.
bcpq	bccpq	bcPq	bccPq
cp.	p.bcc	cbccp	c
cbcq	bcc	bccpr	bccpr
bcrrcm	cir.	cbc	bcc
pr.c	pr.cbc	bc	bcc
id.cqv	cqbcv	bccpr.	cjp
cbccv	cbcv	cbc	cprc
cid	cir	cir	cir
crc	cpr	cprc	circ
cp.	coir	coir.	dir.
c	cpr	cpr	c
crd.m.c	crtlr r.	cpr pr.	cbcc
cbcv	bcvy	bccvw	bccvw
cpr. c	ccpre	cprbcpr	bcc
c	cpro	c	cbc
cpr.	cpr.	cp.d	c
rc	rc	.	rc
cir.	bccr.	cir.	bc ir.
c	cir. c	cr.r	cr.rc
oir.	oir.	cor.r.	or.r.
prcq	prq	prpc	c
cirbc	bccpr.	cpr ~~cprbc~~	cpr.
cvpr.	PRbc	~~cc~~ c	cbc
bcc	cbc		c
cpr	cprc	cp.	cbc
cpr.	cpr.c	cp.c	c
cpcv	cpbcv	bcvbc	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, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r_o, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◐, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

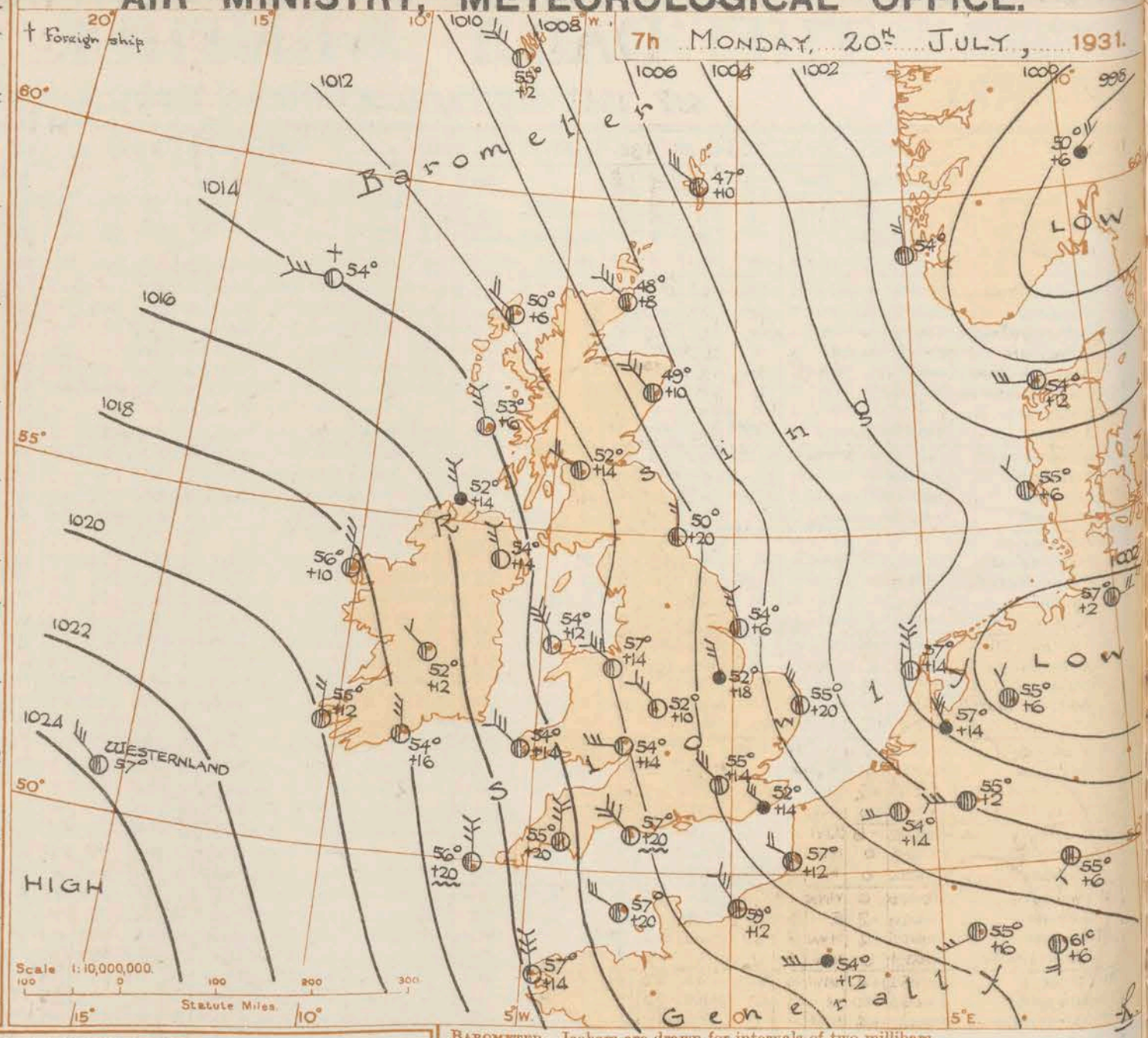
REPORTS from HEALTH RESORTS for 19th JULY 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 18th to 9h. 19th	Temperature. Max. 9h.—17h. 19th	Rainfall. Night. 17h. 18th to 9h. 19th	Rainfall. Day. 9h.—17h. 19th	Sunshine. Sunrise to 17h. 19th	Sunshine. Sunrise to Sunset. 18th
1	Tunbridge W.	bccp	optbc	52	67	1	1	4·8	1·2
	Bournemouth	cbc	bcc	56	67	1	-	7·3	1·0
	Ventnor ...	rcbcb	cpbc	57	67	1	-	5·9	0·7
	Southsea ...	cPbc	cp	58	66	5	0·3	4·3	0·0
	Bognor Regis	bcpr	bcpr	57	67	1	1	4·5	0·4
	Littlehampton	cbcop	Pbc	56	67	1	4	3·8	0·7
	Worthing ...	ciRc	crbc	57	67	1	8	3·4	0·9
	Brighton ...	crbc	bcrcbc	58	67	0·3	2	4·0	1·4
	Eastbourne†	corrgirc	circ	58	64	3	2	4·4	0·7
	Hastings† ...	oiRc	opcbc	54	65	6	4	2·6	0·6
	Folkestone ...	cp	cp	53	68	-	10	2·2	0·5
	Dover... ...	cpr	bpcp	55	63	0·3	11	0·7	0·2
	Deal	oocr	oro	54	64	1	6	1·5	0·2
	Ramsgate ...	cpp	ppbc	54	65	3	14	2·9	0·6
	Margate ...	bbcbc	bcHrc	54	66	0·2	30	2·9	0·5
2	Southend ...	cr.	ctlr	54	69	-	3	5·8	1·5
	Maldon ...	cp.dc	tlrcrc	51	68	-	1	2·3	1·5
	Clacton-on-Sea	cbcc	cptlcpc	55	67	-	2	4·2	1·2
	Dovercourt ...								
	Lowestoft ...	bcbcc	cotlr	53	65	-	22	4·7	3·2
	Skegness ...	robcr	r	51	63	5	3	1·2	4·8
	Mablethorpe	ORm.	ocrm.	50	62	8	2	0·8	0·8
	Cleethorpes ...	rrom	cbcor	53	61	13	3	1·4	1·4
3	Leamington S.	oprbc	cprc	53	63	1	2	1·3	1·9
4	Cheltenham†	c	cipc	56	64	3	0·3	3·1	2·0
5	Bath	cbcp.	cPbc	58	64	2	1	5·2	3·3
	Weymouth ...	obb	bcbcp.	58	67	1	-	8·3	1·6
	Jersey ...	dcc	bcc	60	67	3	-	7·1	1·7
	Torquay ...	p.bbc	bcbo	58	67	-	-	10·3	0·9
	Penzance ...	b	bpr.	56	65	1	0·2	9·7	0·0
	St. Ives ...	b	pr	56	63	1	0·3	11·9	0·0
	Bude	cbc	bcc	57	62	-	-	6·6	0·7
	Ilfracombe ...	cbc	bcc	57	62	0·2	-	4·5	1·9
6	Aberystwyth	cprc	cprc	56	61	5	2	3·1	2·4
7	Llandudno ...	bcc	cbc	54	62	8	-	6·0	1·4
	Colwyn Bay...	rccbc	cebcb	54	63	8	-	4·9	2·3
	Rhyl								
8	Wallasey ...	cbc	bccb	54	61	12	-	4·5	1·6
	Southport‖ ...	bc	bc	54	61	14	-	2·9	3·0
	Blackpool ...	c	ccpbc	55	61	9	1	2·6	1·6
	Morecambe ...	rclpbc	bbcbc	54	62	2	-	3·8	2·2
9	Ilkley	c	cbcp	52	63	3	1	2·2	1·7
10	Berwick-on-T.	o	oc	50	58	5	-	0·7	0·1
11	Dunbar ...	oc	cpm.	51	58	2	1	1·5	0·1
12	Douglas ...	cbbc	cbbc	52	62	2	-	5·2	2·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h MONDAY, 20th JULY, 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. = ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ≈ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 20th July, 1931.
1. S.E. England	Wind northwesterly, fresh locally; cloudy, with brighter intervals; showers or occasional rain; possibly local thunder; rather cool.
2. E. England...	
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	
13. A. W Scotld. B. N W Scotland	
14. Mid-Scotland	
15. N.E. Scotland	
16. Orkneys and Shetlands.	
17. N.W. Ireland	Wind northwesterly, moderate, fresh locally, backing; mainly fair, apart from local showers; rather cool, becoming warmer.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

GENERAL INFERENCE.

Barometeric pressure is high to the southwest and low to the northeast and east of the British Isles. Cool northwesterly winds will be maintained. Weather will be cloudy, with showers or occasional rain, but brighter intervals are probable.

FURTHER OUTLOOK.

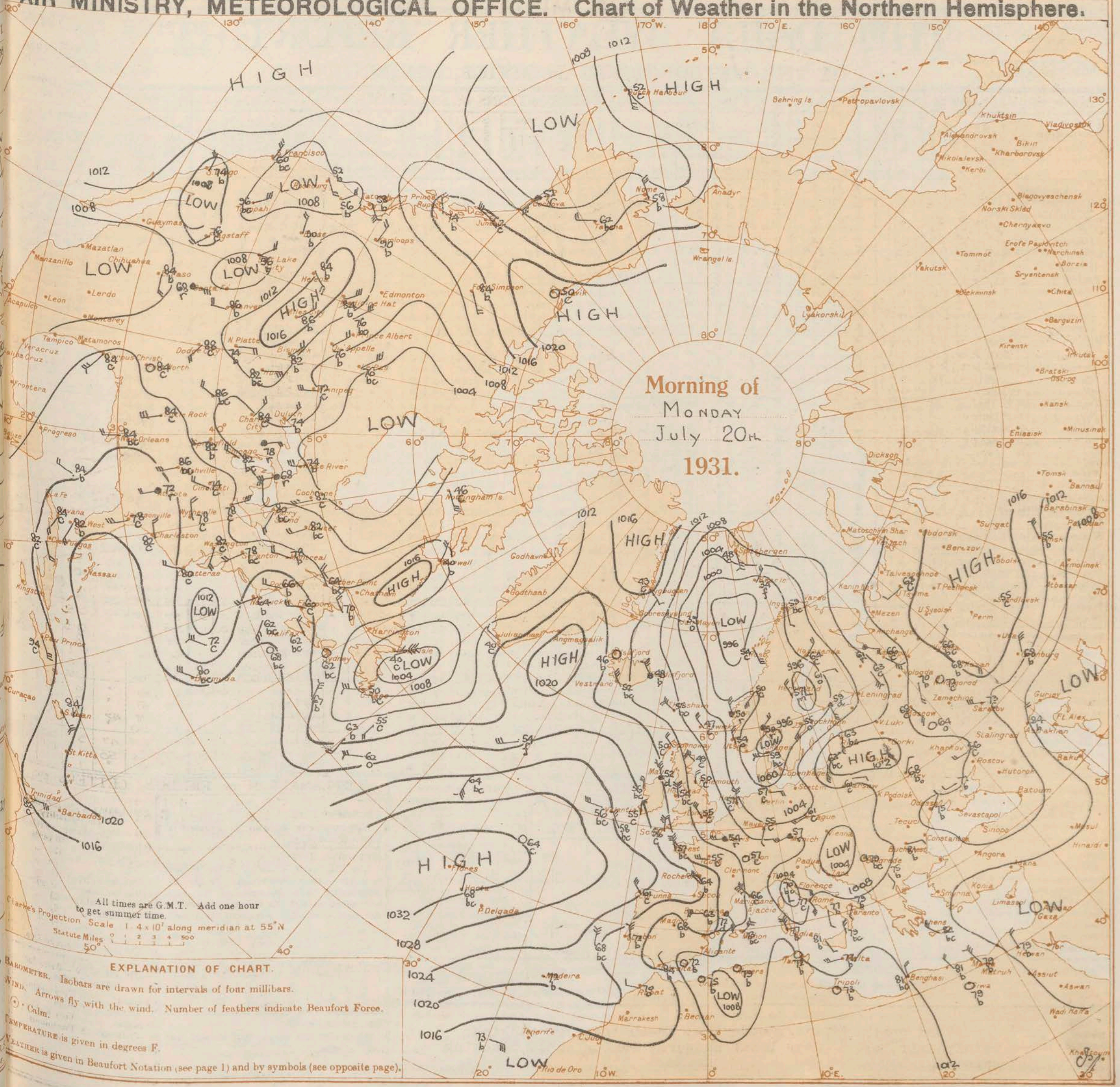
Probably mainly fair apart from showers.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2

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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 20th JULY 1931.

No. 25,442

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

District	Stations	Height above M.S.L., in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1007.9	+6	W'N	2	bc	51	95	7	5	2	-	2-3	2-3	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1008.6	+4	W	3	bc	55	85	8	5	3	-	2-3	4-6	4000
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1006.7	+4	NW	3	b	50	95	8	7	-	-	1	1	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1004.4	+4	NW'W	2	bb	58	85	6	6	-	-	10	10	1500
	Cranwell ...	240	1006.9	+8	NNW	2	c	52	95	6	5	2	-	7-8	9+	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	5	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1009.1	+2	W'N	4	bc	57	85	8	4	4	-	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1013.1	+4	NW	5	PR	56	85	7	3	3	-	2-3	4-6	4000
	Scilly(St.Mary's)	163	1014.1	+6	NNW	6	c	56	85	7	2	-	-	7-8	7-8	4000
	Guernsey ...	175	1011.6	0	W	3	bc/pr	57	95	8	5	-	-	4-6	4-6	2500
6	Pembroke ...	142	1011.2	+16	NW	3	bc	55	95	8	8	5	1	2-3	4-6	2500
7	Holyhead ...	26	1010.9	+16	NNW	6	bc	54	75	8	5	-	1	2-3	2-3	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1005.8	+2	N'E	3	c	55	95	7	3	1	-	4-6	7-8	4000
	Tynemouth ...	67	1007.6	+14	N	2	16	51	95	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1008.4	+12	SW	1	c	51	95	8	8	2	-	7-8	10	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1011.6	+14	NW	3	c	49	95	7	2	-	-	9+	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1007.7	+16	NW	3	bb	47	85	8	9	2	-	7-8	10	1500
16	Lerwick ...	54	1004.4	+14	NW	4	bb	[illegible]	95	7	6	-	-	10	10	800
17	Blacksod Point	18	1017.3	+26	N	5	bc	54	75	7	5	-	-	4-6	4-6	800
18	Malin Head ...	52	1013.5	+18	N'W	5	c/p	53	75	8	5	-	-	7-8	7-8	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1017.6	+14	NW'N	4	bc	55	65	8	5	-	-	2-3	2-3	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)...	1010.3	+18	NW'W	3	c	56	75	7	5	-	-	2+	2+	1500	1	*
	Croydon ...	1008.6	+14	NW'N	3	c	55	85	6	8	3	-	7-8	9	800	1	*
	S. Farnborough	1011.0	+14	NW'W	3	c	53	95	8	5	-	-	2+	2+	1500	1	*
	Winchester ...	1011.7	+14	N'W	4	bc	55	85	8	5	-	2	1	2-3	5700	1	*
	Boscombe Down	1011.5	+20	NW	4	bc	53	85	8	-	1	-	0	2-3	-	1	*
	Calshot,(S'thmtn)	1011.2	+14	NNW	5	bc	56	75	8	5	3	-	2-3	2-3	4000	0	2
	Dungeness ...	*	*	NW	2	c	*	*	7	5	3	*	7-8	9	4000	*	0
	Lympne ...	1008.9	+14	NW	3	ir.	52	95	4	5	7	-	7-8	9+	2500	1	*
2	Shoeburyness	1009.0	+14	NW	4	c	55	95	7	5	-	-	2+	2+	4000	1	*
	Felixstowe ...	1008.5	+20	NNW	3	c	55	85	7	5	7	-	7-8	9	1500	1	1
	Gorleston ...	1007.3	+20	NNW	3	c	55	85	6	6	2	-	7-8	9	1500	1	2
	Cranwell ...	1009.8	+18	N'W	3	ir	52	95	5	6	2	-	9	10	800	1	*
3	Cardington ...	1009.5	+22	WNW	3	c	55	85	7	4	-	1	2+	2+	1500	*	*
	Birmingham ...	1011.1	+10	NW	4	bc	52	85	8	7	-	-	4-6	4-6	2500	1	*
	Upper Heyford	1011.1	+16	NW	4	bc	52	85	8	5	4	-	2-3	4-6	2500	1	*
	Leafield ...	1010.8	+14	NW'N	4	bc	52	75	8	-	4	-	0	2-3	-	1	*
4	Ross-on-Wye ...	1012.1	+14	W	3	bc	54	65	8	5	-	-	2-3	2-3	4000	1	*
5	Portland Bill....	1012.1	+20	NW	5	bc	57	75	8	4	4	2	2-3	4-6	4000	0	4
	Plymouth ...	1014.3	+20	N	5	c/p	55	85	8	2	3	-	7-8	9	800	1	2
	Falmouth ...	1015.7	+14	NNW	4	bc/pr	53	95	8	3	3	1	2-3	4-6	4000	1	2
	Scilly(St.Mary's)	1017.4	+20	N	5	c	56	85	7	4	6	-	4-6	7-8	4000	0	4
	Guernsey ...	1013.0	+20	WNW	3	c	57	65	7	5	-	-	7-8	7-8	1500	1	3
6	Pembroke ...	1014.4	+14	NW	4	c	54	85	8	3	4	-	4-6	7-8	2500	0	2
7	Holyhead ...	1013.0	+12	NNW	6	bc	54	75	6	4	3	2	4-6	4-6	1500	1	3
	Chester (Sealand)	1011.4	+14	NW	4	c/pr	57	75	8	8	3	-	7-8	7-8	2500	1	*
8	L'pool (Bidston)	1011.3	+6	NW	4	c	55	85	8	8	-	-	7-8	7-8	2500	1	*
9	Harrogate ...	1010.8	+20	NW	3	c	51	85	8	6	3	-	2-3	9	2500	1	*
10	Spurn Head ...	1008.3	+6	NNW	4	c	54	95	7	4	2	-	7-8	9+	2500	1	3
	Tynemouth ...	1010.4	+20	N	2	c/r	50	95	7	6	-	-	7-8	7-8	1500	1	2
11	Inchkeith ...	1011.0	+12	W	1	c	50	75	8	6	3	2	2-3	7-8	4000	0	1
	Leuchars ...	1011.0	+14	WNW	3	c	51	75	8	7	3	2	4-6	9	2500	1	*
12	Renfrew ...	1012.4	+14	WNW	2	c	52	75	8	5	3	1	tr.	9	2500	1	*
	Eskdalemuir ...	1011.8	+14	NNE	3	c	49	75	8	8	3	-	7-8	9	2500	1	*
13A	Tiree	1014.0	+6	NNW	4	bc	53	75	8	5	6	-	2-3	4-6	2500	0	3
13B	Stornoway ...	1012.8	+6	NW	2	c	50	85	8	4	3	-	4-6	10	4000	0	1
15	Dalwhinnie ...	1012.6	+12	N	1	c	46	85	8	4	2	-	7-8	10	800	1	*
	Aberdeen ...	1010.3	+10	NW	5	c/r	49	85	8	3	3	1	7-8	7-8	1500	1	1
	Wick	1009.4	+8	NW	4	c	48	85	8	8	2	-	7-8	10	1500	0	2
16	Lerwick ...	1005.8	+10	NW	3	c	47	65	8	5	7	-	4-6	7-8	1500	1	0
17	Blacksod Point	1010.0	+10	N	3	bc	56	75	9	-	5	-	0	4-6	-	0	3
18	Malin Head ...	1016.0	+14	NNW	4	id.	52	95	6	5	7	-	7-8	9+	1500	0	2
	Aldergrove ...	1015.2	+14	NW'N	4	bc	54	65	8	5	-	8	4-6	4-6	4000	1	*
	Donaghadee ...	1014.0	+18	NNE	3	c	53	75	8	7	3	-	4-6	7-8	2500	0	2
19	Birr Castle ...	1017.4	+12	NW	1	bc	52	85	8	5	4	-	2-3	4-6	4000	1	*
20	Valentia Obsy.†	1020.7	+12	N	2	c	55	85	8	5	-	2	7-8	9	2500	0	2
	Roches Point...	1018.4	+16	N	3	bc	54	85	8	5	-	4	2-3	4-6	1500	0	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 19th Hrs. (36)
1	London (Kew)...	65	52	47	1	0·1	2·5
	Croydon ...	65	51	49	1	0·4	3·8
	S. Farnborough	68	50	41	1	1·2	5·2
	Winchester ...	(63)	50	47	1	0·5	3·5
	Boscombe Down	63	49	47	1	0·5	*
	Calshot,(S'thmtn)	66	54	51	0·4	-	4·2
	Dungeness ...	65	49	*	8	1	*
	Lympne ...	66	47	47	9	Tr.	3·5
2	Shoeburyness	69	50	47	2	0·2	4·6
	Felixstowe ...	67	52	50	5	0·2	4·3
	Gorleston ...	66	53	52	17	0·6	4·1
	Cranwell ...	61	51	49	5	1	1·1
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	61	49	46	3	6	2·4
	Upper Heyford	63	48	41	7	0·6	*
	Leafield ...	63	48	43	2	6	4·0
4	Ross-on-Wye ...	65	50	44	1	-	5·2
5	Portland Bill....	63	55	*	-	-	*
	Plymouth ...	63	54	50	*	1	6·6
	Falmouth ...	64	53	*	Tr.	4	8·2
	Scilly(St.Mary's)	63	56	*	1	0·1	12·1
	Guernsey ...	64	55	52	-	1	9·2
6	Pembroke ...	60	52	*	0·3	-	4·2
7	Holyhead ...	61	53	49	Tr.	-	8·8
	Chester (Sealand)	62	53	50	Tr.	Tr.	5·3
8	L'pool (Bidston)	59	52	50	-	0·1	5·5
9	Harrogate ...	61	49	46	1	2	0·8
10	Spurn Head ...	62	52	*	5	6	0·2
	Tynemouth ...	60	49	49	2	2	*
11	Inchkeith ...	61	46	46	5	0·5	1·2
	Leuchars ...	60	46	41	10	1	2·4
12	Renfrew ...	66	43	36	-	-	7·0
	Eskdalemuir ...	62	44	39	2	1	0·3
13A	Tiree	57	50	47	0·5	-	2·0
13B	Stornoway ...	59	47	*	0·3	-	1·7
15	Dalwhinnie ...	58	43	38	2	1	2·5
	Aberdeen ...	61	46	43	0·2	0·3	1·7
	Wick	54	45	*	0·4	1	*
16	Lerwick ...	52	46	*	0·6	Tr.	0·9
17	Blacksod Point	61	51	*	6	Tr.	*
18	Malin Head ...	65	51	*	2	1	5·0
	Aldergrove ...	62	48	42	3	Tr.	5·4
	Donaghadee ...	59	50	*	-	-	*
19	Birr Castle ...	59	50	47	5	0·2	4·3
20	Valentia Obsy.†	60	54	50	1	0·1	5·2
	Roches Point...	62	51	*	1	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	cPRqt	c.pr.bc.p.	cpr.bc	65	52	47	1	0·1	2·5	*	*	7
CROYDON	217	cpt.r	cpr	bc.pr.	65	51	49	1	0·4	3·8	*	*	6
GREENWICH (Royal Observatory) ...	149	c.r.t	c.r.R	C	68	52	46	3	-	2·9	72	77	6
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	3·0	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	64	53	49	.6	*	3·1	54	78	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	3·3	*	*	*
CAMDEN SQUARE	110	cpor.t.dp	cp	*	64	52	49	4	-	*	At 18h. 78	*	*
KENSINGTON	80	C	C	*	65	52	46	5	0·1	2·9	77	78	*
HAMPSTEAD OBSERVATORY	450	c.r	bc.t.l	bc.bc	64	48	33	3	0·3	4·0	*	84	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.			
Max.	Time.	Min.	Time.
0·6	10-12h 13m	N.7	1-2h 20m

KEW OBSERVATORY.			
Max.	Time.	Min.	Time.
0·2	5h 20m	0·1	23h 19m

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 19th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Th. G.M.T. 20th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1008·5	WNW	6	bc	64	1010·9	W	3	rr	54
BRUSSELS	1003·8	WS	4	c	64	1007·2	WSW	2	c/d	54
BERLIN	1004·7	SW	1	c	63					
ZÜRICH						1009·8	N	1	rr	54
ROME	1013·7	WSW	4	bc	73	1009·8	SSE	3	c	77

Past 24 Hours.	Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
PARIS	72	54	5	4
BRUSSELS	70	52	1	6
BERLIN	68		·3	
ZÜRICH		52		2·0
ROME	88	61	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 21st July 1931.

No. 25443

District.	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 20th July: Barom. at M.S.L. mb. (1)	Change in 3 hours. (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)	OBSERVATIONS at 18h. G.M.T. 20th July: Barom. at M.S.L. mb. (15)	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)	PAST 24 HOURS. Weather. 7h.–13h. 20th (37)	13h.–18h. 20th (38)	18h 20th to 1h. 21st (39)	1h.–7h. 21st (40)
1	London (Kew)	1013.4	+.4	NW	3	c	61	65	7	4	3	-	7-8	9+	2500	1015.2	+.0	N	1	r.r.	56	85	5	6	7	-	7-8	10	1500	1	*	c	c bc r.r.	c pb r cm.	bc bm.
	Croydon	1013.1	+.4	NW	3	c/pr	59	75	7	8	7	-	4-6	10	2500	1014.9	+.4	NW'N	2	rr	59	85	6	5	2	-	7-8	10	2500	1	*	cm. pr	c pr r.r.	c r r. mbc	bc m. w
	S. Farnborough	1013.0	+.0	NNW	3	c	63	65	8	7	-	-	9	9	2500	1015.0	+.4	NNW	2	c	69	75	6	8	3	-	7-8	10	2500	1	*	c bcc	c p.	c bw	bw c b
	Winchester	1014.2	+.4	N'W	3	c	60	65	8	7	-	-	9	9	4000	1015.7	+.4	N'W	4	c jp	57	75	8	8	1	-	7-8	10	4000	1	*	c	pr. c	bc bbc	bw b
	Boscombe Down	1013.8	+.6	NNW	4	c	60	55	8	7	4	-	7-8	7-8	4000	1016.0	+.4	N	3	c/r	56	55	7	8	-	-	9+	9+	2500		*	bcc	cr.	b	b
	Calshot, S'thmtn	1014.1	+.4	NNW	4	c	61	55	8	7	-	-	7-8	7-8	4000	1015.1	+.0	NNW	5	c	61	75	7	8	3	-	4-6	7-8	4000	0	2	bcc	bc cq.	bcb	bc b
	Dungeness	*	*	N	3	c	*	*	7	8	1	*	7-8	10	2500	*	*	N	2	c	*	*	7	8	7	*	7-8	9+	2500	*	0	pr	pr	p	p
	Lympne	1011.8	+.4	NNW	3	pr	58	85	6	5	3	-	7-8	9	2500	1014.1	+.2	N'W	3	c	55	85	9	8	2	-	7-8	9+	4000	1	*	c p.	c pr c v	ord m. c	c bw m.
2	Shoeburyness	1012.6	+.4	NW	3	ir	55	95	7	6	1	-	7-8	9+	4000	1014.4	+.4	NNE	1	c jp	58	85	8	9	1	-	7-8	10	2500	1	*	cr.	c i r.	c	bc b m.
	Felixstowe	1012.0	+.8	NNW	3	c/r.	57	85	8	6	1	-	9	10	1500	1014.1	+.6	N	2	c	56	75	8	5	2	-	4-6	10	2500	1	1	c r c i r.	c pr o l r c	c bc	bw
	Gorleston	1010.5	+.2D	N'W	5	c/pr	58	85	7	6	2	-	7-8	9	1500	1013.1	+.4	NNW	5	bc	58	65	7	1	-	1	2-3	4-6	4000	0	3	c p r. q	c bc q	bc q b	bbc
	Cranwell	1012.7	+.4	N	3	c	57	75	8	5	-	-	9+	9+	1500	1014.9	+.6	-	0	c/pr	54	85	7	6	-	-	10	10	2500	1	*	c r p. r	c p. r	c bc m.	bw m.
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	bw
	Birmingham	1014.2	+.6	NNW	4	c	55	75	6	6	2	-	7-8	9	2500	1015.5	+.6	NNW	4	bc	57	85	8	8	-	-	4-6	4-6	2500	1	*	c p R	c bc	bc b	bbc
	Upper Heyford	1013.9	+.4	NW	3	pr	57	75	6	8	7	1	4-6	9	2500	1015.5	+.8	NW'N	3	c	57	75	7	5	7	-	4-6	7-8	4000	1	*	bc c p.	bc c p.	c bc bw	bw
	Leafield	1013.5	+.0	NNW	3	c/pr	59	75	8	8	-	-	9+	9+	4000	1015.1	+.6	NW'N	5	bc	57	65	8	5	4	-	4-6	4-6	7200	1	*	bc c p	c p bc	bc bw	bw
4	Ross-on-Wye	1014.6	+.0	NNW	3	c/pr	59	65	8	8	-	-	7-8	7-8	4000	1016.4	+.2	NW	3	bc	59	55	9	4	-	-	2-3	2-3	4000	1	*	bc c P	c bc	bc y b	bbc
5	Portland Bill	1015.0	+.6	WNW	4	c	61	55	8	2	4	-	4-6	7-8	4000	1015.8	+.6	NW	5	c	60	65	8	4	4	-	4-6	7-8	2500	0	3	bc c	c	b c b b	b b c c
	Plymouth	1017.0	+.0	N'W	5	c	59	65	8	8	-	-	9	9	2500	1018.5	+.8	NNW	5	b	58	65	8	2	-	1	1	1	1500	1	2	c bc q	c y b	b c b	b c b w m.
	Falmouth	1019.3	+.8	NNW	5	c/pr	56	85	8	8	-	-	7-8	7-8	4000	1020.8	+.8	NW'N	4	bc	58	75	9	1	-	1	4-6	4-6	4000	0	2	bc p.	bc	bc	bc
	Scilly (St. Mary's)	1020.7	+.6	N	5	b	58	75	8	4	6	-	4-6	7-8	4000	1021.3	+.2	NW'N	5	bc	60	75	8	4	4	-	2-3	4-6	4000	0	4	c	c bc	bcb	o c c c
	Guernsey	1016.7	+.0	W'N	4	bc	61	65	8	7	4	-	2-3	4-6	2500	1017.4	+.6	WNW	5	bc	59	65	8	7	4	-	4-6	4-6	2500	0	4	bc c bc	bc	bc b w	b bc
6	Pembroke	1018.0	+.6	WNW	4	bc	59	55	9	2	9	-	2-3	4-6	2500	1020.1	+.8	W	2	c	58	65	8	7	8	-	4-6	7-8	1500	0	2	c bc v y	bc c	c bc b	b b c
7	Holyhead	1017.1	+.6	NW'N	5	bc	58	65	8	7	-	8	4-6	4-6	4000	1018.2	+.6	WNW	2	bc	57	75	8	5	-	-	2-3	2-3	5700	0	1	bc c bc	bc	bc w	bcc
8	Chester (Sealand)	1015.6	+.2	NW'N	5	q	58	65	8	4	-	9	7-8	9	2500	1016.7	+.4	WNW	5	q	58	65	8	2	-	-	4-6	4-6	2500	1	*	p R c q	c bc q	bcb	bc j c
9	L'pool (Bidston)	1014.7	+.6	NW	5	bc	57	65	9	7	-	-	4-6	4-6	4000	1016.3	0	NW	5	bc	58	65	8	1	-	-	2-3	2-3	2500	0	*	D R V	v bc	b b c	b r. c
10	Harrogate	1013.1	+.6	NW	3	c	58	65	8	9	1	-	7-8	9+	2500	1014.5	+.6	NNW	1	c	56	65	7	5	-	-	9	9	4000	1	*	c	c	c b c	r. c
	Spurn Head	1012.1	+.8	N'E	5	c	56	75	7	3	7	-	2-3	9+	4000	1013.4	+.2	N'E	4	bc	56	75	7	2	8	8	2-3	4-6	4000	0	3	c pr.	c bc	bc	bc
	Tynemouth	1012.5	+.0	NNE	3	c	53	65	7	6	-	-	7-8	7-8	1500	1014.0	+.2	NNE	2	bc	54	65	7	2	6	-	2-3	4-6	2500	0	2	c bc c	c bc	bc	l c
11	Inchkeith	1013.2	+.8	NNW	2	c	57	85	8	5	8	-	4-6	7-8	4000	1013.9	0	NNE	2	c	59	75	8	8	8	-	4-6	7-8	4000	0	1	c	c pr	c bc	bc
12	Leuchars	1013.2	+.0	NW	3	c	58	55	8	8	-	-	9+	9+	2500	1013.9	+.2	ESE	2	c jp	57	65	9	8	6	3	7-8	7-8	2500	1	*	c y	c v y p. r	c bc	w c w
	Renfrew	1014.6	+.4	WNW	3	c	60	55	8	7	-	1	7-8	7-8	4000	1015.6	+.6	WNW	4	bc	59	55	8	7	-	-	2-3	2-3	4000	0	*	c bc v	bc b v y	b bc v w	bc w c
	Eskdalemuir	1013.7	+.0	N	3	c	56	65	8	7	-	-	9+	9+	2500	1014.8	+.6	NNW	3	c	55	65	8	7	3	-	4-6	7-8	2500	1	*	c	c y c	c b	b j r. c
13A	Tiree	1016.2	+.4	NNW	3	c	55	85	8	5	7	-	4-6	7-8	2500	1016.5	0	NNW	4	pr.	56	85	8	7	6	-	2-3	7-8	2500	1	2	bc	c	c	c
13B	Stornoway	1014.4	0	NNW	2	c	57	65	9	8	-	-	7-8	7-8	4000	1014.3	0	WNW	4	c	55	75	9	8	6	-	4-6	7-8	2500	0	2	c	c pr	c pr bc	c
15	Dalwhinnie	1015.2	+.0	N	1	c	52	55	8	4	5	-	7-8	10	800	1015.4	+.6	NE	1	c	53	45	8	4	2	-	4-6	10	4000	0		rc	bc	.	bc
	Aberdeen	1012.7	+.2	NW	4	c	53	65	8	8	-	-	9	9	2500	1013.5	+.6	NNW	4	bc	56	55	8	1	-	1	2-3	2-3	4000	0	1	c p r. c	c b	b	o
	Wick	1011.7	+.8	NW	4	c	53	65	8	8	2	8	4-6	9+	1500	1012.7	+.6	NW	4	bc	55	55	8	1	-	-	4-6	4-6	2500	0	3	c	c bc	bq pr	bc
16	Lerwick	1008.7	+.0	VNW	4	c	53	65	8	8	-	-	7-8	7-8	1500	1009.4	0	W'N	3	c	53	75	8	8	-	-	7-8	7-8	1500	0	*	c	c	c bc c p r.	c p r. c
17	Blacksod Point	1021.1	+.0	WNW	4	c	58	65	9	8	7	-	4-6	9	800	1021.6	+.2	W'N	4	bc	58	75	9	5	6	-	4-6	4-6	2500	0	3			bc c	c p r
18	Malin Head	1017.6	+.6	NNW	4	c jp	57	75	8	9	8	-	7-8	9	1500	1018.1	+.2	NW	4	c	57	85	8	2	8	9	4-6	7-8	2500	0	2	c d r bc	c p. r c	c j p bc c	c p c
	Aldergrove	1017.7	+.6	NW'N	4	c jp	58	65	8	7	-	-	7-8	7-8	4000	1019.1	+.6	NW	3	c	56	75	8	8	-	-	7-8	7-8	4000	1	*	c bc	bc p. r c	p. b c w	bc w c
	Donaghadee	1016.7	+.8	N	5	q	56	75	8	9	2	-	4-6	7-8	2500	1017.5	+.4	N	2	bc	56	75	8	7	3	-	4-6	4-6	4000	0	1	c q	c bc	c	c
19	Birr Castle	1019.5	+.6	NW	3	c	60	65	8	5	-	-	9+	9+	2500	1020.1	+.4	NW	2	c	58	75	8	5	-	-	9+	9+	2500	1	*	bc c	c r. c	c bc c	c
20	Valentia Obsy.	1022.8	+.6	W'N	3	c	59	75	8	8	-	-	7-8	7-8	1500	1023.1	0	NW'W	4	bc	59	75	8	8	3	-	4-6	4-6	1500	1	2	c	c p. bc	bc b c w	b c w c, c
	Roches Point	1020.0	+.6	N	3	c	59	75	9	6	-	-	7-8	7-8	2500	1020.7	+.4	N	4	c	61	65	9	6	-	9	4-6	7-8	2500	0	3	bc c v	c v	c v bc	bc c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

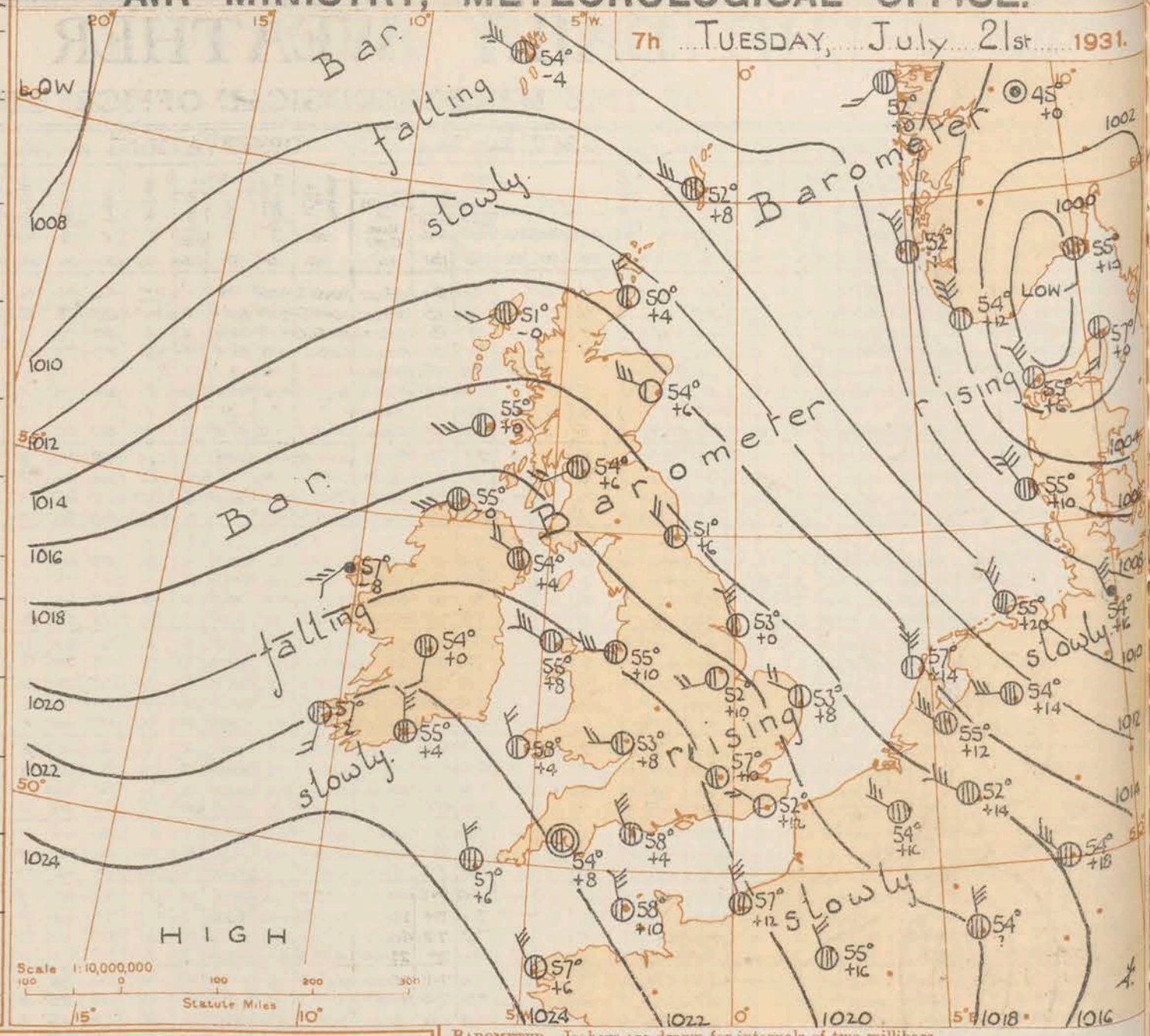
REPORTS from HEALTH RESORTS for ... 20th July ... 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 20th to 9h. 20th	Temperature. Max. 9h.—17h. 20th	Rainfall. Night. 17h. 20th to 9h. 20th	Rainfall. Day. 9h.—17h. 20th	Sunshine. Sunrise to 17h. 20th	Sunshine. Sunrise to Sunset. 20th
1	Tunbridge W.	ocbc	ocbc	50	61	2	-	2·6	5·3
	Bournemouth	bbc	bcc	52	65	0·5	-	9·0	7·7
	Ventnor ...	pbbc	bcbbc	52	66	0·3	-	10·5	6·8
	Southsea ...	bbcc	bbc	54	66	0·2	-	8·6	4·4
	Bognor Regis	bcc	bcc	52	67	0·3	-	7·6	5·0
	Littlehampton	bc	bc	53	67	0·3	-	6·1	4·2
	Worthing ...	bc	bccG	53	65	1	Trace	10·3	3·8
	Brighton ...	bc	bc	52	67	2	-	9·6	4·2
	Eastbourne†	c	c	52	67	1	-	6·3	4·6
	Hastings† ...	cbcc	copoc	50	63	11	0·1	2·0	2·6
	Folkestone ...	cor	orcp	51	63	0·2	3	1·2	3·2
	Dover... ...	cpo	oopc	53	61	1	2	1·5	1·2
	Deal	obc	orc	51	65	4	3	1·4	2·0
	Ramsgate ...	bcc	cpc	53	64	1	5	1·4	3·7
	Margate ...	cbc	cch	55	63	0·3	2	1·3	2·9
2	Southend ...	cdo	cdbcc	51	59	0·2	1	0·6	6·2
	Maldon ...	c	oirc	52	61	1	1	0·6	2·4
	Clacton-on-Sea	bccpc	cpc	50	63	3	1	1·6	4·3
	Dovercourt ...								
	Lowestoft ...	coprc	idobc	52	59	0·5	Trace	3·1	4·7
	Skegness ...	romo	ob	52	58	1	-	5·7	1·2
	Mablethorpe	bcpo	bc	51	59	2	Trace	4·4	1·3
	Cleethorpes ...	oc	ebv	52	58	2	-	4·3	1·4
3	Leamington S.	oc	oprc	50	60	2	0·6	3·6	1·3
4	Cheltenham†	wocbc	cpc	48	63	-	1	3·1	2·9
5	Bath	bcc	upbc	51	65	3	Trace	7·1	6·2
	Weymouth ...	byybcb	bbcby	53	66	0·3	-	9·8	9·0
	Jersey ...	pcbc	bc	57	64	1	-	8·4	7·3
	Torquay ...	pbcwc	cbcbq	53	62	1	-	5·2	11·2
	Penzance ...	b	b	55	63	1	-	9·8	11·2
	St. Ives ...	b	b	53	59	1	-	11·0	13·7
	Bude	c	bcb	55	59	-	-	5·8	6·9
	Ilfracombe ...	oc	bcb	55	62	0·3	-	4·1	4·7
6	Aberystwyth	c	cbc	54	58	-	-	4·8	4·1
7	Llandudno ...	cbc	bc	53	59	-	-	5·9	7·5
	Colwyn Bay ...	obcb	bcb	52	60	-	-	4·1	6·8
	Rhyl								
8	Wallasey ...	oircb	bcb	53	61	1	2	5·0	6·5
	Southport‖ ...	ocbc	bcb	54	59	0·3	-	7·3	5·0
	Blackpool ...	cbc	bcb	53	60	-	-	7·8	4·5
	Morecambe ...	cdpbc	b	53	62	2	Trace	8·3	4·8
9	Ilkley	bcc	c	50	63	Trace	-	2·7	2·7
10	Berwick-on-T.	bcc	bcc	48	56	1	-	6·2	0·7
11	Dunbar ...	cpmo	coG	49	58	0·5	Trace	3·7	1·5
12	Douglas ...	cb	bbc	50	58	-	-	10·6	8·4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h ... TUESDAY, ... July ... 21st ... 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/10 clouded. ◕ Sky 1/10 to 1/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ϒ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 21st July, 1931.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind northwest or west, backing, moderate; mainly fair today, perhaps deteriorating later; somewhat warmer.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind west or southwest, moderate, freshening; mainly cloudy; perhaps drizzle or rain later; somewhat warmer.
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	Wind southwest or south, moderate or fresh, perhaps strong on coasts; mainly cloudy; some rain; moderate temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind west, backing, moderate or fresh; mainly fair today, probably some rain later; somewhat warmer.
17. N.W. Ireland	As 12 - 13.
18. N.E. Ireland 19. S.E. Ireland	As 5 - 9.
20. S.W. Ireland	As 12 - 13.

GENERAL INFERENCE.

An anticyclone lies southwest of the British Isles and a depression on the Eastern Atlantic is moving northeast. Weather will be mainly fair today in the South and East but cloudier conditions with rain are probable in the Northwest and may spread eastwards later. Temperature is likely to rise somewhat.

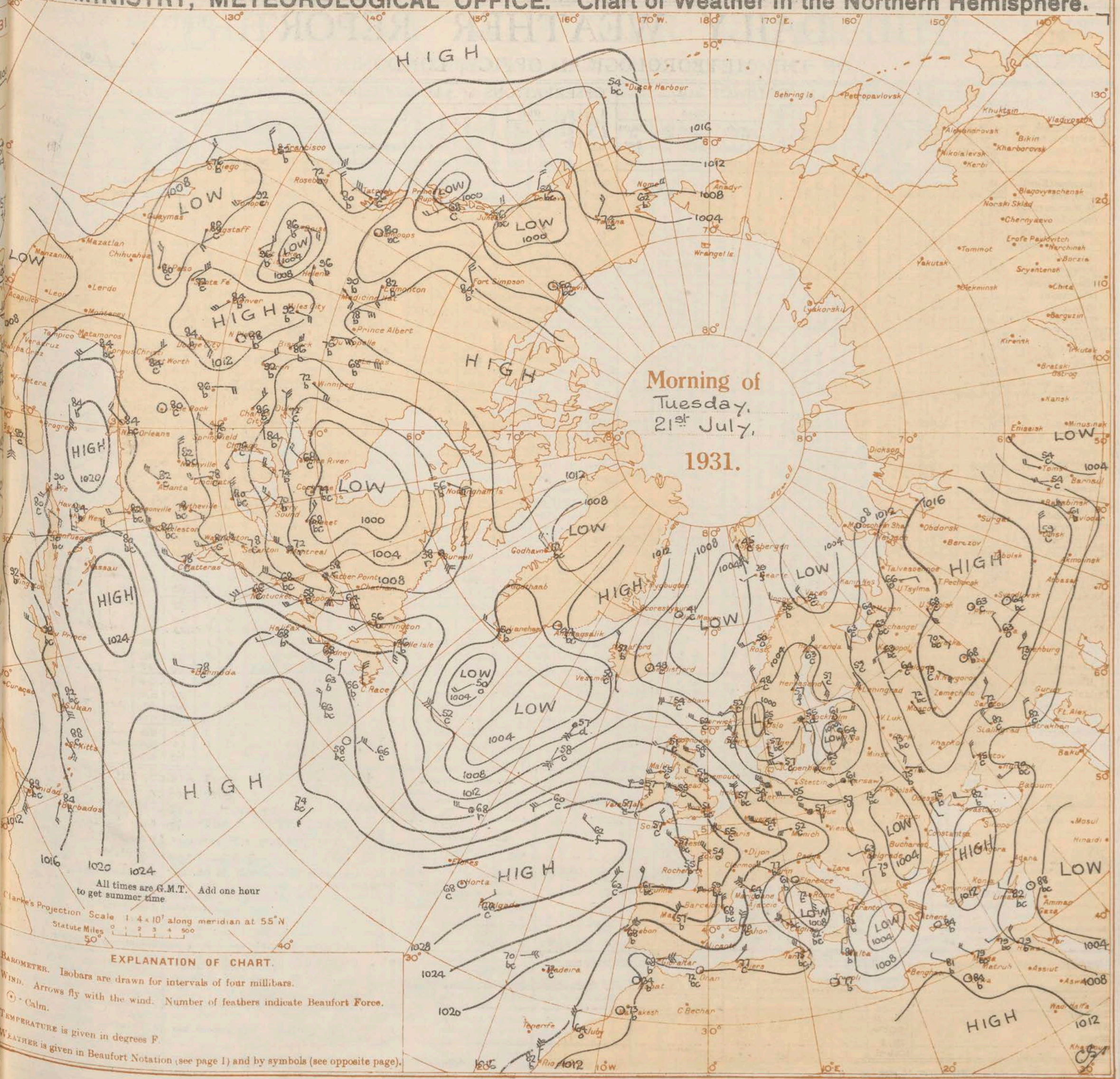
FURTHER OUTLOOK.

Unsettled weather in the Northwest and West, perhaps spreading eastwards.

Forecasts issued at 0910 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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


Morning of
Tuesday,
21st July,
1931.
HIGH
LOW
Dutch Harbour
Behring Is.
Petropavlovsk
Khuktsin
Vladivostok
Alexandrovsk
Bikin
Kharborovsk
Nikolaievsk
Kerbi
Blagovyeschensk
Norski Skiad
Chernyaevo
Erofe Paulovitch
Nerchinsk
Tommot
Yakutsk
Berzia
Sryentensk
Olekminsk
Chita
Lyakovskii
Barguzin
Kirensk
Irkutsk
Bratski Ostrog
Nansk
Enisseisk
Minusinsk
Dickson
Tomsk
Barnaul
Obdorsk
Surgut
Berezov
Tobolsk
Akmolinsk
Tavvesoemoe
T. Pechorsk
U. Tsylma
Sverdlovsk
Arcasan
Archangel
Petrograd
Zamechno
Gurjev
Ft. Alex
Strakhan
Baku
Badoum
Mosul
Hinaidi
Assiut
Aswan
Wadi Halfa
Khartoum
Nome
Anadyr
Wrangel Is.
Tatoosh
Prince Rupert
Juneau
Tatuna
Vancouver
Seattle
San Francisco
San Diego
Roseburg
Kamloops
Edmonton
Medicine Hat
Prince Albert
Fort Simpson
Winnipeg
Flagstaff
Guaymas
Mazatlan
Manzanillo
Chihuahua
Leon
Lerdo
Acapulco
Monterey
Tampico
Matamoros
Veracruz
Frontera
Progreso
Peso
Santa Fe
Denver
Miles City
Helena
Dodge City
Fort Worth
Corpus Christi
Bismarck
Williston
Devils Lake
Duluth
Minneapolis
Chicago
Omaha
Kansas City
Springfield
St. Louis
Memphis
Little Rock
New Orleans
Nashville
Atlanta
Charleston
Jacksonville
Havana
Nassau
Key West
Cienfuegos
Swan River
Nottingham Is.
Sault Ste. Marie
Montreal
Father Point
Chatham
Kentucke
Sydney
Halifax
Yarmouth
Boston
New York
Washington
Cape Hatteras
Bermuda
C. Race
Belle Isle
Burwell
Godhavn
Godthaab
Angmagssalik
Ivigtut
Julianehaab
Scoresbysund
Jan Mayen
Vestmannaeyjar
Reykjavik
Thorshavn
Lerwick
Aberdeen
Valentia
Curacao
St. Juan
St. Kitts
Trinidad
Barbados
Flores
Horta
Madeira
Tenerife
Juby
Rio de Janeiro
Gibraltar
Oran
Algiers
Tripoli
Benghazi
Malta
Palermo
Messina
Naples
Rome
Florence
Genoa
Marseilles
Barcelona
Lisbon
Oporto
Corunna
Brest
Paris
Dijon
Rochefort
Nantes
Cherbourg
Jersey
Falmouth
Valencia
Malin Head
Stornoway
Aberdeen
Shetland Is.
Aalesund
Bergen
Stavanger
Christiansund
Trondheim
Oslo
Stockholm
Copenhagen
Skagen
Malmo
Visby
Stettin
Warsaw
Libau
Memel
Danzig
Hamburg
Amsterdam
Ostend
Dover
Hull
Munich
Vienna
Prague
Cracow
Lemberg
Odessa
Sevastopol
Constantsa
Bucharest
Belgrade
Zara
Padua
Trieste
Udine
Milan
Turin
Geneva
Metz
Nancy
Strasbourg
Karlsruhe
Stuttgart
Frankfurt
Cologne
Aachen
Utrecht
Groningen
Terschelling
Ijmuiden
Hook of Holland
Flushing
Ostend
Calais
Boulogne
Le Havre
Cherbourg
Jersey
Guernsey
Falmouth
Scilly Is.
Valent

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 21st July 1931.

No. 25443

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0-10 (12)	Cloud. Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1017·9	+6	WNW	1	bc	49	85	6	S	-	-	2·3	2·3	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1018·7	+10	WNW	3	b	51	75	8	-	-	-	0	0	-
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1017·0	+8	N	2	c	52	85	7	S	2	-	4·6	9+	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1015·6	+6	WNW	3	bc	47	95	7	1	-	-	2·3	2·3	4000
	Cranwell ...	240	1017·2	+2	SW	2	bc	49	95	6	S	3	-	2·3	2·3	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1019·6	+6	NW	4	b	55	75	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1022·7	+4	NW	3	bc	56	95	8	S	-	-	4·6	4·6	4000
	Scilly (St. Mary's)	163	1023·4	+6	NNW	4	b	56	95	7	4	-	-	1	1	4000
	Guernsey ...	175	1020·6	+12	NW	2	b	55	85	9	-	-	-	0	0	-
6	Pembroke ...	142	1020·4	+6	WNW	2	b	55	85	8	-	4	-	0	1	-
7	Holyhead ...	26	1019·6	+4	SW	1	bc	52	85	8	S	-	-	2·3	2·3	5700
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1015·6	+2	NW	3	bc	53	85	7	4	-	-	2·3	2·3	4000
	Tynemouth ...	87	1015·7	+2	W	2	bc	50	85	6	2	-	-	4·6	4·6	2500
11	Inchkeith ..	190	1015·8	+10	WSW	3	bc	51	85	8	S	8	-	4·6	4·6	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1015·3	+6	-	0	bc	46	95	8	1	7	-	2·3	4·6	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1013·0	0	WNW	3	bc	49	85	8	8	6	-	2·3	4·6	2500
16	Lerwick ...	54	1009·0	+2	W	1	pc	48	95	8	8	-	-	7·8	7·8	1500
17	Blacksod Point	18	1021·6	-2	W	4	c	55	85	8	-	7	-	0	9+	-
18	Malin Head ...	52	1019·2	+2	NW	4	c	54	85	8	8	3	-	4·6	7·8	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1023·7	0	W	2	c	55	85	8	S	-	-	7·8	7·8	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount. Low 0-10 (26)	Cloud. Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Ses. 0-9 (30)
1	London (Kew)...	1020·3	+10	W	1	b	52	85	6	1	-	-	Tr.	Tr.	2500	1	*
	Croydon ...	1019·9	+10	WN	2	bc	51	85	6	-	3	1	0	2·3	-	1	*
	S. Farnborough	1020·3	+14	WNW	1	b	54	75	8	-	3	-	0	Tr.	-	1	*
	Winchester ...	1020·9	+6	NNW	2	b	53	85	8	-	-	1	0	Tr.	-	0	*
	Boscombe Down	1021·1	+10	NW	2	b	51	95	7	5	-	-	1	1	7200	20	*
	Calshot, (S'thmtn)	1020·4	+8	NNW	3	b	54	75	7	-	-	1	0	Tr.	-	0	1
	Dungeness ...	*	*	NW	2	bc	*	*	6	1	3	*	2·3	4·6	4000	*	1
	Lympne ...	1018·7	+12	WNW	2	b	52	95	5	-	4	-	0	1	-	1	*
2	Shoeburyness	1019·5	+6	WNW	2	b	52	95	6	-	3	-	0	1	-	1	*
	Felixstowe ...	1018·7	+12	WNW	2	bc	53	85	7	-	3	-	0	2·3	-	0	1
	Gorleston ...	1016·8	+8	WNW	2	bc	53	86	7	-	8	-	0	4·6	-	0	2
	Cranwell ...	1018·6	+10	WSW	2	bc	52	85	6	5	3	-	2·3	2·3	4000	1	*
3	Cardington ...	1019·2	+10	WN	3	b	53	85	7	7	-	1	Tr.	Tr.	7200	*	*
	Birmingham ...	1020·3	+10	WNW	3	bc	51	75	6	-	6	1	0	4·6	-	1	*
	Upper Heyford	1020·0	+10	NW	4	bc	53	75	8	5	-	1	1	2·3	4000	1	*
	Leafield ...	1020·1	+10	WNW	2	b	52	85	9	-	9	4	0	1	-	1	*
4	Ross-on-Wye ...	1020·7	+8	W	2	bc	53	85	8	5	3	-	2·3	4·6	5700	0	*
5	Portland Bill....	1021·3	+4	NW	3	c	58	75	8	4	4	-	4·6	7·8	2500	0	3
	Plymouth ...	1022·6	+8	-	0	bc	54	85	6	7	-	1	2·3	2·3	4000	1	0
	Falmouth ...	1023·2	+4	NW	1	bc	57	85	8	8	3	-	4·6	4·6	4000	0	0
	Scilly (St. Mary's)	1023·8	+6	NNW	2	c	57	85	8	7	5	-	2·3	7·8	4000	0	2
	Guernsey ...	1021·9	+10	NNW	4	bc	58	75	8	2	7	-	4·6	4·6	2500	0	3
6	Pembroke ...	1021·6	+4	NW	2	bc	58	75	9	1	5	4	2·3	4·6	4000	0	1
7	Holyhead ...	1020·2	+8	WN	4	c	55	85	8	5	3	-	9+	9+	500	0	1
	Chester (Sealand)	1020·1	+10	W	3	c	55	85	6	5	-	-	9+	9+	1500	1	*
8	L'pool (Bidston)	1019·7	+8	NNW	4	c	55	85	9	3	8	8	4·6	9	2500	0	*
9	Harrogate ...	1017·6	+10	SW	3	c	55	75	9	5	4	1	7·8	7·8	4000	1	*
10	Spurn Head ...	1016·8	0	NW	4	bc	53	85	7	-	2	1	0	4·6	-	0	3
	Tynemouth ...	1016·7	+6	WNW	2	bc	51	85	6	2	-	-	4·6	4·6	2500	0	2
11	Inchkeith ..	1015·7	+4	W	3	c	53	85	8	5	8	1	2·3	7·8	4000	0	1
	Leuchars ...	1015·7	+2	W	3	c	55	75	8	6	4	6	2·3	9	4000	1	*
12	Renfrew ...	1017·5	+6	WSW	2	c	54	85	8	8	7	1	2·3	9	1500	0	*
	Eskdalemuir ...	1017·4	+4	NW	3	ir	52	85	8	5	2	-	9	10	1500	1	*
13A	Tiree	1017·0	0	WSW	3	c/pr	55	85	7	5	1	9	2·3	7·8	1500	1	1
13B	Stornoway ...	1014·9	0	WSW	2	c	51	95	9	8	7	-	7·8	9	4000	0	1
15	Dalwhinnie ...	1016·3	+4	S	1	c	51	65	6	7	4	-	7·8	10	4000	0	*
	Aberdeen ...	1015·0	+6	WNW	3	b	54	75	8	1	3	-	1	2·3	2500	1	1
	Wick	1013·5	+4	NW	2	bc	50	85	8	3	4	1	2·3	4·6	2500	0	2
16	Lerwick ...	1010·0	+8	WNW	3	c	52	75	8	8	-	-	7·8	7·8	1500	0	*
17	Blacksod Point	1019·1	-8	SW	4	pr	57	85	7	6	-	-	10	10	4150	1	3
18	Malin Head ...	1018·3	0	WSW	3	c/p	55	95	8	9	2	-	2·3	9+	1500	0	1
	Aldergrove ...	1019·7	+2	W'S	2	c	54	85	8	5	2	-	7·8	10	2500	1	*
	Donaghadee ...	1018·5	+4	WNW	2	c	54	85	7	5	-	-	9	9	1500	0	1
19	Birr Castle ...	1021·2	0	S	1	c	54	95	7	-	7	-	0	10	-	0	*
20	Valentia Obsy.†	1022·7	-2	SW	2	c	57	95	8	5	2	-	7·8	10	1500	0	2
	Roches Point...	1022·5	+4	N	2	c	55	85	8	5	-	-	7·8	7·8	4000	0	2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 20th Hrs. (36)
1	London (Kew)...	63	49	43	1	0·5	2·6
	Croydon ...	63	45	44	0·5	1	2·4
	S. Farnborough	64	43	34	Tr.	Tr.	4·1
	Winchester ...	65	44	41	Tr.	-	5·4
	Boscombe Down		44	37		—	*
	Calshot, (S'thmtn)	64	48	43	-	-	5·0
	Dungeness ...	63	48	*	1	8	*
	Lympne ...	59	47	45	0·5	2	1·3
2	Shoeburyness	61	46	42	4	2	1·1
	Felixstowe ...	62	48	43	4	-	1·2
	Gorleston ...	61	45	43	0·1	-	4·2
	Cranwell ...	61	45	41	0·4	Tr.	1·5
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	59	46	43	3	-	7·5
	Upper Heyford	60	46	42	0·1	Tr.	*
	Leafield ...	60	41	30	0·4	-	8·7
4	Ross-on-Wye ...	62	43	37	0·4	-	8·5
5	Portland Bill....	63	53	*	-	-	*
	Plymouth ...	60	47	41	-	-	7·8
	Falmouth ...	59	54	*	Tr.	-	11·9
	Scilly (St. Mary's)	61	54	*	-	-	9·9
	Guernsey ...	62	53	49	-	-	11·4
6	Pembroke ...	60	52	*	-	-	7·6
7	Holyhead ...	59	51	41	-	-	9·1
	Chester (Sealand)	59	50	44	3	Tr.	7·4
8	L'pool (Bidston)	58	53	45	3	0·1	7·1
9	Harrogate ...	59	45	40	-	-	4·7
10	Spurn Head ...	59	51	*	Tr.	-	5·8
	Tynemouth ...	55	48	46	-	-	*
11	Inchkeith ..	61	49	47	Tr.	-	6·3
	Leuchars ...	62	44	39	0·2	-	5·2
12	Renfrew ...	63	46	36	-	-	9·9
	Eskdalemuir ...	59	43	39	-	Tr.	3·7
13A	Tiree	58	51	45	0·2	0·2	7·8
13B	Stornoway ...	60	45	*	Tr.	0·3	5·0
15	Dalwhinnie ...	55	44	38	-	-	6·0
	Aberdeen ...	57	46	36	Tr.	-	7·9
	Wick	56	46	*	-	0·2	*
16	Lerwick ...	54	47	*	-	1	8·2
17	Blacksod Point	60	54	*	-	0·1	*
18	Malin Head ...	58	53	*	1	Tr.	8·0
	Aldergrove ...	60	48	37	Tr.	Tr.	8·6
	Donaghadee ...	*	*	*	-	-	*
19	Birr Castle ...	61	50	44	Tr.	-	3·8
20	Valentia Obsy.†	62	52	44	Tr.	Tr.	7·5
	Roches Point...	63	53	*	-	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	c	cbc c.c	cpbrcm.	63	49	43	1	0·5	2·6	*	*	8
Croydon	217	cm.por	cpr c.r.	crr cmr	63	45	44	0·5	1	2·4	*	*	6
Greenwich (Royal Observatory) ...	149	c	cr	crc bc	64	48	37	0·3	0·5	1·2	65	63	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3·5	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	63	49	46	2	*	3·0	57	61	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	4·1	*	*	*
Camden Square	110	c	c/p	*	63	49	46	1	-	*	*	70	*
Kensington	80	bc	bc	*	63	48	44	3	0·5	2·8	At 18h. 55	67	*
Hampstead Observatory	450	bcor	o	o	62	43	28	3	0·3	3·1	*	75	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 21st

South Kensington. Max.	Time.	Min.	Time.
1·0	2h 21st	0·3	10-15h 20th

Kew Observatory. Max.	Time.	Min.	Time.
0·3	21h 20th	4·0	14h 20th

FOREIGN OBSERVATIONS.

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

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1013·8	NNE	2	c	59
Brussels	1011·9	WNW	3	c	57
Berlin	1002·6	WSW	3	bc	68
Zürich	1011·8	NW	2	ir	54
Rome	1016·5	S	3	bc	77

7h. G.M.T. 21st July

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1012·5	NW	2	c	55
1017·4	WNW	3	c	54
1008·3	WN	3	c	55
1015·0	N	1	ir	52
1007·3	S	3	c	72

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
66	52	1	-
63	45	11	0·1
70	54	8	*
63	50	11	1
86	57	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 22nd July 1931.

No. 25444

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	10[illegible] 21·2	+4	W'N	2	c	62	45	9	2	3	-	2-3	7-8	2500
	Croydon	10.1·0	+6	WNW	3	c	62	55	8	7	7	-	7-8	9	2500
	S. Farnborough	1021·1	+2	WNW	2	c	63	55	8	4	5	-	9	9	7200
	Winchester	1021·9	+4	NW'N	3	c	62	55	8	8	1	-	9	9+	4000
	Boscombe Down	1021.6	+2	NW	3	c	63	55	8	7	3	-	7-8	9+	4000
	Calshot, S'thmtn	1021.7	0	W'N	2	bc	63	55	8	7	5	-	4-6	4-6	4000
	Dungeness	*	*	SW'S	2	bc	*	*	6	7	-	*	4-6	4-6	2500
	Lympne	1020·3	+10	WNW	2	c	62	55	7	8	-	-	9	9	4000
2	Shoeburyness	1020.5	+6	WNW	2	c	62	65	8	8	-	-	9	9	4000
	Felixstowe	1019.9	+4	WNW	4	c	61	55	8	8	-	-	9	9	2500
	Gorleston	1018.7	+6	NW'N	3	c	63	65	7	5	-	-	9	9	2500
	Cranwell	1019.6	+10	NW'W	3	c	59	75	7	9	3	-	9	9+	2500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1020.8	+2	NW	3	c	58	65	8	6	-	-	9+	9+	1500
	Upper Heyford	1021·1	0	W	3	c	63	65	9	7	9	-	4-6	9	2500
	Leafield	1021.0	+6	W'N	3	c	59	65	9	8	-	-	9+	9+	5700
4	Ross-on-Wye	1020.8	+4	WNW	3	c	63	55	9	8	3	8	4-6	9	4000
5	Portland Bill	1022·2	+2	NW	4	c	59	85	8	8	7	-	4-6	7-8	2500
	Plymouth	1023.2	+2	SW	4	c	61	85	8	2	3	3	4-6	7-8	2500
	Falmouth	1024.9	+4	WNW	2	c	63	85	8	1	3	-	2-3	7-8	4000
	Scilly (St. Mary's)	1024.8	+6	NW'N	3	bc	64	75	8	1	4	-	2-3	4-6	4000
	Guernsey	1023·8	+8	WNW	3	bc	62	65	8	7	4	-	4-6	4-6	2500
6	Pembroke	1022·4	+2	W	2	bc	59	75	8	1	9	1	2-3	4-6	2500
7	Holyhead	1020·3	-2	SSW	4	c	59	75	8	1	3	-	1	9+	4000
	Chester (Sealand)	1020.4	+2	NW'W	4	c	63	65	8	8	3	1	7-8	9	4000
8	L'pool (Bidston)	1020.1	+2	WNW	5	c	59	65	9	7	3	8	4-6	9	2500
9	Harrogate	1018·4	0	SW	3	c	58	65	9	8	-	-	9+	9+	4000
10	Spurn Head	1018.0	+4	NW	3	c	62	75	7	4	1	1	4-6	7-8	4000
	Tynemouth	1016·4	0	WNW	3	c	61	65	7	6	-	-	7-8	7-8	1500
11	Inchkeith	1015.9	-2	SW	4	c	58	65	8	7	-	-	7-8	7-8	2500
12	Leuchars	1015·1	-6	NW	4	c	65	55	9	7	7	-	7-8	9+	4000
	Renfrew	1016·3	0	W	2	c	59	75	8	7	-	7	4-6	10	2500
	Eskdalemuir	1017.0	-4	WNW	4	c	59	65	8	5	1	-	9	10	2500
13A	Tiree	1014.6	-16	S	4	id.	55	95	7	6	2	-	4-6	10	1500
13B	Stornoway	1013.5	-6	SSW	3	r	55	95	8	6	2	-	7-8	10	2500
15	Dalwhinnie	1016·6	+8	S	1	c	56	55	6	7	4	-	7-8	10	7200
	Aberdeen	1014.2	0	SE	3	c	59	65	8	7	3	-	4-6	7-8	2500
16	Wick	1013·3	-2	WSW	2	c	54	75	8	8	1	8	4-6	7-8	2500
17	Lerwick	1011·0	+8	WNW	3	c	66	65	8	8	3	-	4-6	7-8	1500
18	Blacksod Point	1017.7	0	SW	4	c	59	95	6	-	2	-	0	10	-
	Malin Head	1015.9	-20	SSW	3	c/d	57	95	7	5	2	-	7-8	9+	1500
	Aldergrove	1018.4	-10	SSW	3	ir.	56	95	6	6	1	-	9	10	1500
	Donaghadee	1018·1	-2	WSW	2	id.	61	75	7	5	2	-	4-6	7-8	1500
19	Birr Castle	1020.0	-4	SW	2	d.	58	95	7	5	2	-	7-8	10	2500
20	Valentia Obsy.	1022·0	-2	SW	2	c	61	95	8	5	-	-	9	9	450
	Roches Point	1022·0	-4	SW	3	c	58	85	8	5	-	-	9+	9+	1500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Ses. 0-8 (30)
1	London (Kew)	1021·1	0	WSW	2	c	64	55	8	1	3	1	1	9	4000	0	*
	Croydon	1020·8	-2	W	3	c	63	65	8	7	7	4	2-3	7-8	4000	0	*
	S. Farnborough	1021.0	-2	W'S	2	c	63	75	8	5	5	6	9	9+	4000	1	*
	Winchester	1021·4	+4	WNW	3	c	63	55	8	7	-	6	1	9+	5700	0	*
	Boscombe Down	1021.6	0	NW'N	3	c	62	65	8	1	-	2	1	9+	4000	0	*
	Calshot, S'thmtn	1021·8	0	SW	4	c	62	75	8	5	-	6	2-3	7-8	4000	0	2
	Dungeness	*	*	WSW	2	c	*	*	7	4	3	*	2-3	7-8	2500	*	1
	Lympne	1021·1	+6	W	2	c	61	65	7	5	-	-	7-8	7-8	7200	0	*
2	Shoeburyness	1020.9	0	WNW	1	c	61	65	7	2	3	-	4-6	9	4000	0	*
	Felixstowe	1020·5	+2	NW'W	3	c	62	55	8	5	-	-	7-8	7-8	4000	0	1
	Gorleston	1019.0	0	W'N	1	c	61	65	6	5	-	-	9+	9+	2500	0	1
	Cranwell	1019.2	-4	W	2	c	60	75	7	7	3	-	2-3	9	4000	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1020·0	-4	W	3	c	61	55	8	-	7	-	0	9	-	1	*
	Upper Heyford	1020.6	0	W	2	c	62	65	8	5	7	6	4-6	9	4000	0	*
	Leafield	1020.4	-6	WSW	3	c	59	75	8	4	7	-	2-3	9+	5700	0	*
4	Ross-on-Wye	1020.6	0	W'N	4	c	61	65	9	5	1	-	7-8	10	4000	0	*
5	Portland Bill	1022·0	-2	SW	4	bc	60	85	8	4	4	1	2-3	4-6	2500	0	4
	Plymouth	1022·7	0	WSW	4	bc	61	75	8	7	6	2	2-3	4-6	4000	0	1
	Falmouth	1024.6	-4	WNW	3	bc	63	85	8	2	-	9	2-3	4-6	4000	0	1
	Scilly (St. Mary's)	1024.0	-2	W'S	3	bc	61	85	8	7	4	1	2-3	4-6	4000	0	2
	Guernsey	1023.5	-6	W	3	bc	62	75	8	7	-	1	4-6	4-6	2500	0	2
6	Pembroke	1021.6	0	S	2	rr	57	95	5	5	-	-	10	10	450	1	2
7	Holyhead	1018.6	-16	S	5	c/d	57	85	8	5	2	-	4-6	10	1500	0	2
	Chester (Sealand)	1019.5	-8	SW'W	3	c	61	65	9	5	7	8	4-6	9+	5700	0	*
8	L'pool (Bidston)	1019.0	-8	WSW	4	c	60	65	9	3	1	-	7-8	9	2500	0	*
9	Harrogate	1018.6	0	SSW	2	ir.	56	75	9	6	2	-	7-8	10	2500	1	*
10	Spurn Head	1017.6	0	NW'W	4	c	61	75	7	4	1	-	4-6	7-8	4000	0	3
	Tynemouth	1015·8	-4	W	2	c	59	75	6	6	-	-	7-8	7-8	1500	0	2
11	Inchkeith	1015.5	-4	SW	3	rr	54	95	7	6	-	-	10	10	1500	1	1
12	Renfrew	1014.7	0	WSW	3	r.	56	95	7	6	2	-	2-3	10	1500	1	*
	Eskdalemuir	1014.8	-18	SW	2	id.	55	95	6	6	2	-	9+	10	1500	0	*
	Tiree	1016·1	-8	SW	4	c	54	85	8	6	-	-	10	10	800	1	*
13A	Stornoway	1011·3	-18	SSW	4	d.	57	95	3	6	-	-	10	10	450	1	2
13B	Dalwhinnie	1008.6	-24	S	4	rr	63	95	6	5	-	-	10	10	800	2	3
15	Aberdeen	1012·5	+10	N	1	iR	53	65	7	4	2	-	9	10	450	1	*
	Wick	1012·6	-14	-	0	c	59	75	7	7	1	-	2-3	10	2500	0	1
16	Lerwick	1012·0	-8	SSE	2	c	53	75	8	8	6	8	4-6	7-8	2500	0	2
17	Blacksod Point	1010.7	-6	W'S	1	bc	55	65	8	8	4	1	2-3	4-6	1500	0	*
18	Malin Head	1016·3	-10	SW	4	f	58	95	3	-	2	-	0	10	-	0	3
	Aldergrove	1013.6	-8	SWW	3	c	61	95	7	5	3	-	7-8	9+	1500	1	1
	Donaghadee	1015.4	-14	S'W	3	c/d	60	95	7	5	1	-	9	10	450	1	*
	Birr Castle	1015.7	-14	SW	2	id.	57	95	7	5	-	-	9+	9+	800	1	1
19	Valentia Obsy.	1017.7	-8	WSW	1	c	65	85	8	8	4	-	4-6	7-8	2500	1	*
20	Roches Point	1020.4	-10	S'W	3	c	62	95	7	5	-	-	9+	9+	800	0	2
		1020·0	-10	SW	3	bc	59	85	7	5	-	-	2-3	2-3	1500	0	2

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.–13h. 21st (37)	Weather. 13h.–18h. 21st (38)	Weather. 18h. 21st to 1h. 22nd. (39)	Weather. 1h.–7h. 22nd. (40)
1	London (Kew)	bz.cy	cy	c	co
	Croydon	bm.cy	cy	cbc	bcc
	S. Farnborough	b, c	cy	c	coc
	Winchester	bc yc	cy	c	c
	Boscombe Down	bcc	cy	cir.	co
	Calshot, S'thmtn	bcc	bc bc	bcc	c
	Dungeness	bc	o	*	o
	Lympne	bc z o y	cy	c b w c	c m p
2	Shoeburyness	bm. bcc	c	c	c
	Felixstowe	by. cy	cy bcy	bc	bcc
	Gorleston	bc	c	cbc	bcc
	Cranwell	bm. c	cyc	c	c
3	Cardington	*	*	c	c
	Birmingham	bcc	c	c	c
	Upper Heyford	bbc c v	cv bcy	c	c b c w
	Leafield	bbcc	c	c	cbc
4	Ross-on-Wye	c bcc	cvy	c	c
5	Portland Bill	c	c bc	bcc	c o i r. m.
	Plymouth	bm. c	c b bc	bcc	c d. m.
	Falmouth	bc	bc	bcc	c i d i f
	Scilly (St. Mary's)	c	bc	c i d i f	b c w c
	Guernsey	b bc	bc	b c w	
6	Pembroke	b c v	c r r m o	o m i r.	F F e d
7	Holyhead	~~bc~~ c	c i d. c	com.	o m c m.
	Chester (Sealand)	p r. c	c	c j p	c
8	L'pool (Bidston)	c b c c v	c v	c o i r.	o c v
9	Harrogate	bc c	cr.	cr.	cir
10	Spurn Head	bcc	bc	co	o r c
	Tynemouth	bcc	c p.	coir.	c
11	Inchkeith	c	corr	cir.	c
12	Renfrew	c v y	c v y r r.	c r r r c	c i r c
	Eskdalemuir	c v c	c i r. m.	c o i d.	o m c a
	Tiree	c p r. c	c r d c	c d c	c
13A	Stornoway	c o d.	o r d m	f m d.	o i d. m
13B	Dalwhinnie	c o r	o r r	o i r	o i r d
15	Aberdeen	bc	r	.	r
	Wick	b b c	b c c	o r r o	o c
16	Lerwick	b c c	c	c r. r r r o	r r f c
17	Blacksod Point	c	c b c	b c c	c r. f. m.
18	Malin Head	o f	o f	i d f	p r a
	Aldergrove	c d. r	c i d r m c	c e	c e
	Donaghadee	c i r.	c d d d.	c	c w c
	Birr Castle	c i d.	c i d.	c i d. c	c
19	Valentia Obsy.	c d d	c i d.	c	c
20	Roches Point	c i d. c	c i d. c	c o f m	o m c r p c
		c p. c	c o f b c	b c c w	c o f f e

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, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r_o, slight rain. rr, continuous rain.
< , less than (for cloud height).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

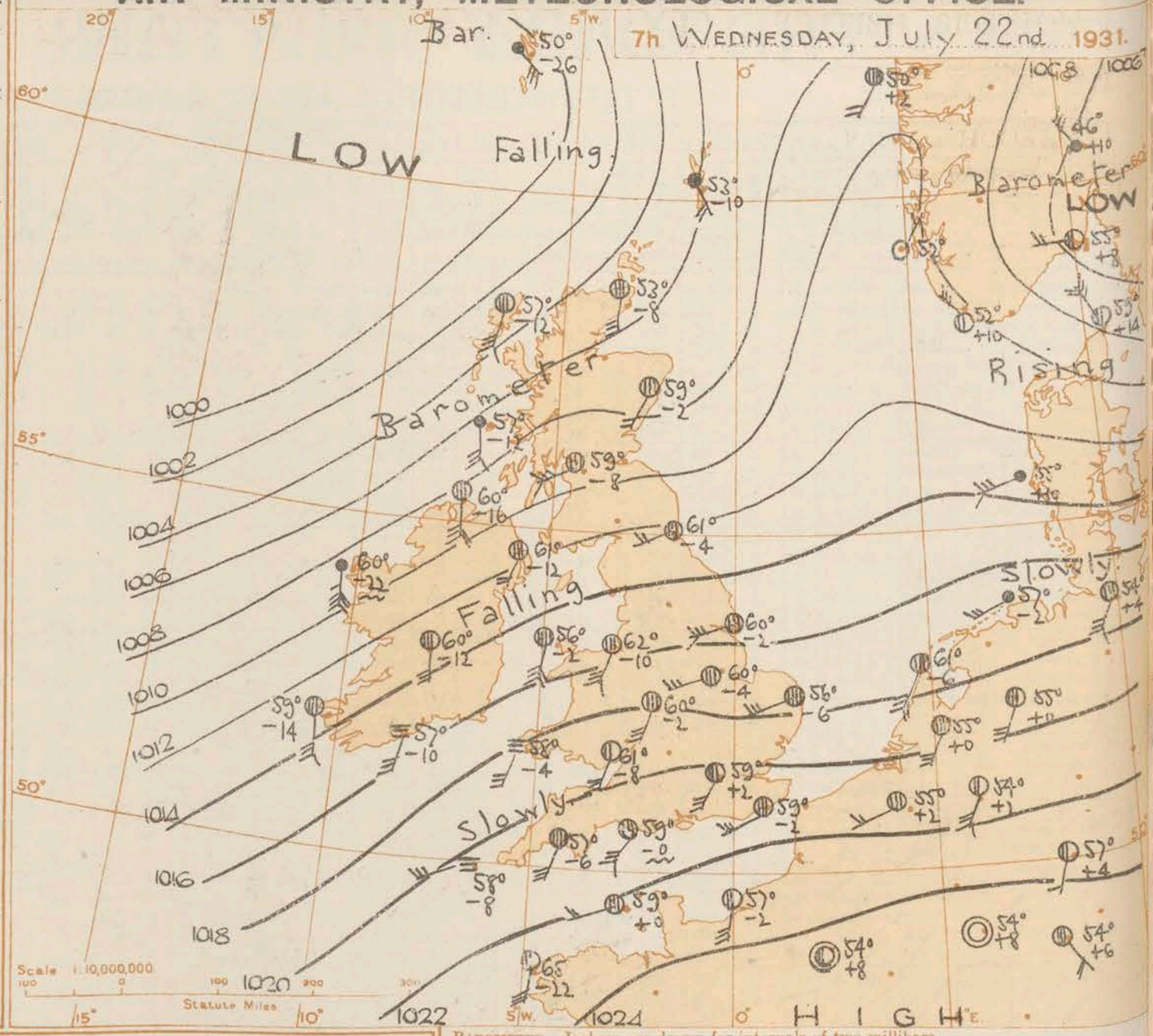
REPORTS from HEALTH RESORTS for 21st July 1931.

Districts	Stations	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h.20th. to 9h.21st.	Temperature. Max. 9h.–17h. 21st.	Rainfall. Night. 17h.20th. to 9h.21st.	Rainfall. Day. 9h.–17h. 21st.	Sunshine. Sunrise to 17h. 21st.	Sunshine. Sunrise to Sunset. 20th.
1	Tunbridge W.	bbcco	cbc	45	63	1	-	7.2	2.6
	Bournemouth	b	bc	47	66	-	-	7.2	8.5
	Ventnor ...	bc	bcb	49	63	-	-	9.0	10.8
	Southsea ...	b	bbc	49	66	-	-	9.1	8.8
	Bognor Regis	bbc	bccbc	48	67	1	-	8.7	7.6
	Littlehampton	bbc	bc	48	66	-	-	7.3	6.3
	Worthing ...	bbc	c	49	66	1	-	7.8	10.1
	Brighton ...	bbc	bcc	48	67	0.6	-	7.2	9.7
	Eastbourne†	bbc	bc	49	66	2	-	9.7	6.6
	Hastings† ...	bbc	bcc	49	66	0.2	-	9.0	2.2
	Folkestone ...	bbcc	c	49	66	3	-	6.6	1.3
	Dover... ...	ybcc	cbcy	49	64	2	-	6.0	1.5
	Deal	bbc	bbc	48	67	4	-	8.4	1.4
	Ramsgate ...	b	bbc	49	67	0.6	-	10.2	1.5
	Margate ...	bc	bc	53	66	2	-	9.8	1.6
2	Southend ...	bbc	co	49	66	3	-	7.6	0.6
	Maldon ...	b	cbcc	47	66	0.5	-	6.7	0.6
	Clacton-on-Sea	bbcc	cbcy	48	64	-	-	8.3	1.9
	Dovercourt ...								
	Lowestoft ...	bc	bc	44	63	-	-	8.5	4.8
	Skegness ...	bbc	ovo	45	65	0.5	-	6.8	5.8
	Mablethorpe	bcb	bc	44	63	0.3	-	7.8	6.1
	Cleethorpes...	bc	coc	47	64	-	-	6.9	5.8
3	Leamington S.	bcco	ocbc	42	64	-	-	3.4	5.6
4	Cheltenham†	wc	cbcc	43	67	-	-	4.5	4.7
5	Bath	bcc	cbc	45	65	-	-	6.1	9.6
	Weymouth ...	bccb	by	49	67	-	-	7.3	11.3
	Jersey ...	bc	bc	55	65	-	-	11.4	9.7
	Torquay ...	bvbbc	bvy	48	69	-	-	10.1	8.0
	Penzance ...	cbbc	b	55	66	-	-	6.1	12.1
	St. Ives ...	b	b	54	63	-	-	12.1	13.4
	Bude ...	cbc	bc	48	63	-	-	10.8	7.4
	Ilfracombe ...	b	bbc	56	63	-	-	10.8	5.8
6	Aberystwyth	bcc	cbcc	54	61	-	-	3.8	7.2
7	Llandudno ...	c	c	53	62	-	-	2.2	7.5
	Colwyn Bay...	cbcc	c	51	64	-	-	1.8	5.7
	Rhyl								
8	Wallasey ...	bccbc	bcc	53	63	-	-	4.5	7.6
	Southport‖ ...	bcb	bcco	54	61	Tr.	-	3.2	10.3
	Blackpool ...	c	c	54	62	-	-	1.5	10.4
	Morecambe ...	edpbc	c	53	61	-	Tr.	0.5	11.0
9	Ilkley... ...	bcc	cp.	45	62	-	Tr.	3.4	3.0
10	Berwick-on-T.	c	co	46	66	-	-	4.3	7.4
11	Dunbar ...	bc	cp.	48	62	-	Tr.	3.1	5.2
12	Douglas ...	ebc	obdms	50	61	-	0.5	1.0	13.6

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Wednesday, July 22nd 1931.



Districts	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T 22nd July, 1931.
1. S.E. England 2. E. England	Wind southwesterly, moderate or fresh; cloudy; perhaps local coastal drizzle and fog; perhaps rain later; rather close.
3. E. Midlands 4. W. Midlands	Wind southwesterly, moderate or fresh; cloudy; some rain later; moderate temperature; rather close today.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind southwest, moderate to strong, veering; cloudy, local drizzle and coastal fog at first, some rain later; rather close today.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 2 - 4.
12. S.W. Scotland & Isle of Man 13. A. W Scotld. B. N.W Scotland	Wind south or southwest, veering, moderate or fresh, strong locally; cloudy; some rain; moderate or rather low temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind south or southwest, moderate or fresh, perhaps strong locally later; cloudy; rain later; moderate temperature at first, somewhat cooler later.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind becoming westerly, fresh, strong locally; cloudy: some rain or showers; perhaps brighter intervals later; moderate or rather low temperature.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force.
Temperature is given in degrees F. Calm. = ⊙
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ⊤ Thunder. ⊼ Thunderstorm.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A depression south of Iceland is moving eastwards. Weather will be cloudy generally and drizzle or rain is probable, especially in the West and North. Temperature will be moderate and air rather close today.

FURTHER OUTLOOK.

Rather unsettled.

Forecasts issued at 0915 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

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

Morning of
Wednesday,
22nd July,
1931.

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Forces.

⊙ - Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 22nd July 1931.

No. 25414

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1026.3	0	VHSW	3	bc	56	75	7	-	7	-	0	4-6	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1021.6	-2	SW'W	2	c	58	85	7	5	3	6	4-6	10	4000
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1021.1	-6	W'S	3	c	55	95	7	5	2	-	9	9+	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1019.0	-2	SW	2	bc	55	95	7	-	2	-	0	4-6	-
	Cranwell ...	240	1017.7	-12	WSW	3	c	55	85	7	5	-	-	9+	9+	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1021.6	-2	W'S	4	c	59	85	8	4	4	-	4-6	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1023.3	-2	SW'W	3	c	57	95	7	5	2	-	4-6	10	4000
	Scilly(St.Mary's)	163	1022.8	-8	WSW	4	id.	58	95	5	5	-	-	9+	9+	1500
	Guernsey ...	175	1023.7	-4	WSW	1	bc	56	95	8	5	-	-	2-3	2-3	2500
6	Pembroke ...	142	1019.4	-4	SW	3	df	57	95	2	5	-	-	10	10	4150
7	Holyhead ...	26	1016.6	-3	SSW	5	o	56	95	5	5	-	-	10	10	220
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1016.3	-4	SW'W	3	o	56	85	7	5	-	-	10	10	1500
	Tynemouth ...	67	1013.1	-10	SW	3	c	58	85	7	2	-	-	7-8	7-8	2500
11	Inchkeith ...	190	1010.4	-20	SW	4	c	59	95	8	5	2	-	2-3	9	4000
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1005.3	0	W	3	ir	57	95	7	6	-	-	9+	9+	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1006.6	-18	S	3	fr	52	95	8	6	-	-	10	10	1500
16	Lerwick ...	54	1008.3	-8	-	0	c	50	85	8	5	7	-	4-6	7-8	1500
17	Blacksod Point	18	1012.8	-20	SW	5	df	57	95	4	6	-	-	10	10	4150
18	Malin Head ...	52	1011.0	-8	SW	4	c	59	95	8	5	1	-	4-6	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1018.3	-10	SW	2	df	56	95	3	3	-	-	10	10	800
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 22nd July

Barom. at M.S.L. mb. (15)	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)
1020.0	0	SWS	3	0	59	85	8	5	-	-	10	10	1500	0	*
1020.5	+2	SWW	3	c	59	85	8	5	2	-	9	9+	1500	0	*
1020.1	-2	SW	2	c	59	85	8	5	3	-	9+	9+	1500	1	*
1020.8	+2	SW	2	c	59	85	8	5	2	-	9+	10	1500	0	*
1020.6	0	SW	3	o	58	95	7	5	-	-	10	10	1500	0	*
1020.9	-4	SWW	3	c	62	85	8	5	4	-	7-8	9+	2500	0	1
1020.5	-2	WSW	3	c	*	*	7	8	-	*	9+	9+	2500	*	2
1019.8	-6	WS	3	c	59	85	8	5	-	-	9+	9+	4000	0	*
1019.2	-2	WSW	3	c	60	85	7	5	-	-	10	10	4000	0	*
1017.4	-6	WS	3	c	58	85	8	5	-	-	9	9	7200	0	2
1016.5	-4	WSW	3	c	56	85	7	5	-	-	10	10	4000	0	2
1017.9	-2	SWW	3	c	60	85	8	5	3	-	7-8	9+	800	1	*
1017.9	-2	SW	4	c	61	85	7	5	3	1	7-8	9	2500	*	*
1017.9	-2	SW	3	c	60	85	8	5	-	9	7-8	7-8	1500	1	*
1018.6	-6	SW	4	bc	61	85	8	5	3	-	4-6	4-6	800	1	*
1018.1	-6	SWW	4	bc	60	85	8	5	3	9	2-3	4-6	800	0	*
1018.2	-8	SW	3	bc	61	85	8	5	3	9	2-3	4-6	4000	0	*
1020.7	0	WS	4	c	59	95	8	8	7	-	4-6	7-8	2500	0	4
1020.9	-6	SW	3	o	57	95	6	5	-	-	10	10	220	1	2
1021.8	-6	SW	4	c	58	95	6	5	2	-	7-8	10	2500	0	2
1020.7	-8	WSW	3	8	58	95	3	5	-	-	10	10	4150	1	2
1022.7	0	WSW	2	c	59	85	7	5	8	-	4-6	7-8	1500	0	2
1019.3	-4	SW	3	df	58	95	1	5	-	-	10	10	4150	1	2
1014.9	-2	SSW	5	o	56	95	6	5	-	-	10	10	4150	0	2
1015.6	-10	SWW	4	c	62	85	8	5	-	-	9	9	1500	0	*
1015.0	-16	WSW	4	c	61	85	9	5	-	-	9+	9+	4000	0	*
1015.2	0	S	1	8	60	85	7	6	2	-	9	10	2500	1	*
1015.1	-2	WS	4	c	60	95	7	1	3	1	4-6	7-8	4000	0	3
1017.4	-4	WSW	2	c	61	85	6	6	-	-	7-8	7-8	1500	0	2
1009.8	-2	SW	4	c	58	95	8	4	9	-	9	9+	4000	0	2
1009.2	-6	WSW	3	c	60	85	8	5	7	8	2-3	9+	4000	1	*
1010.4	-8	SW	5	9	59	95	7	5	-	-	9+	9+	800	0	*
1011.4	-4	WS	5	c	57	85	8	5	4	6	4-6	9+	450	1	*
1006.8	-12	S	4	d	57	95	5	6	2	-	7-8	10	800	1	3
1002.9	-12	SSW	4	c	57	95	7	6	6	-	7-8	9+	1500	1	3
1008.1	-20	SE	1	c	57	85	8	4	3	-	7-8	10	450	1	*
1007.1	-2	SSW	2	c	59	85	7	-	7	-	0	9+	-	1	1
1004.9	-8	S	3	c	53	95	8	5	2	8	7-8	10	2500	1	2
1006.0	-10	SSE	2	c	53	95	7	5	2	-	4-6	10	1500	1	*
1008.2	-22	S	7	ir	60	95	7	6	-	-	10	10	4150	1	5
1008.1	-16	SW	5	c	60	95	7	5	7	-	7-8	9+	800	0	2
1011.8	-12	SW	3	c	60	85	7	5	1	-	9+	10	1500	1	*
1011.8	-12	SW	2	c	61	85	7	5	-	-	7-8	7-8	1500	0	1
1012.9	-10	S	3	c	60	95	7	5	-	7	7-8	10	1500	0	*
1013.7	-14	S	4	c	59	95	8	5	2	-	7-8	9+	800	1	3
1015.8	-10	SW	3	5	57	95	2	5	-	-	10	10	4150	1	3

PAST 24 HOURS.

Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 24 hrs. Hrs. (36)
*	*	*	*	*	*
64	56	52	-	-	5.5
67	54	49	-	-	7.1
65	55	54	-	-	8.5
63	54	53	-	Tr.	*
66	57	56	-	-	5.2
67	57	*	-	-	*
63	53	51	-	-	7.6
*	*	*	*	*	*
64	55	51	-	-	8.6
64	54	51	-	-	6.3
62	53	51	-	-	5.6
*	*	*	*	*	*
62	55	53	-	-	1.2
65	54	52	-	Tr.	*
64	53	50	-	-	6.7
66	56	54	-	-	4.5
*	*	*	*	*	*
62	58	*	-	-	*
64	56	54	-	0.4	12.2
66	55	*	-	Tr.	9.3
65	57	*	-	1	2.7
64	55	51	-	-	14.7
61	56	*	0.3	1	4.9
61	55	54	Tr.	-	1.6
63	58	54	Tr.	-	1.8
60	56	55	-	Tr.	5.1
60	54	52	Tr.	0.3	2.2
62	56	*	-	Tr.	6.5
64	55	53	Tr.	0.3	*
57	56	55	1	0.4	0.0
59	52	*	1	7	0.7
58	50	48	3	2	0.0
62	53	51	-	3	7.2
58	51	*	-	10	*
57	49	*	-	Tr.	10.0
60	57	*	0.6	0.2	*
61	58	*	Z	-	0.0
60	57	53	0.5	Tr.	0.0
61	56	*	0.6	Tr.	*
65	57	53	0.6	-	0.0
65	57	57	Tr.	1	1.6
63	55	*	Tr.	1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	b3cy	cy	c	65	56	53	-	-	5.7	*	*	8
Croydon	217	bmcy	cy	cbc	64	56	52	-	-	5.9	*	*	8
Greenwich (Royal Observatory) ...	140	c	cy	cbc	67	55	46	-	-	4.5	49	78	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	4.4	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	64	58	53	-	-	5.1	51	78	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	4.7	*	*	*
Camden Square	110	bcc	c	*	66	56	52	-	-	*	*	78	*
Kensington	30	bc	bc	*	64	57	51	-	-	5.2	At 18h. 54	83	*
Hampstead Observatory	450	bc	bc	bc	63	52	47	-	-	4.9	*	86	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 21st July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 22nd July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1021.7	NW	2	c	64	1024.6	-	0	3	54
Brussels	1020.6	WNW	2	c	61	1021.8	WSW	2	c	55
Berlin	1014.0	NW	2	c/pr	59	1018.4	WSW	4	bc	59
Zürich	1019.6	S	1	c	54	1023.0	NE	1	bc	60
Rome	1009.4	ESE	3	b	75	1014.2	N	3	b	68

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.0	7h 21st	N.?	1-5h 22nd.

Kew Observatory. Max.	Time.	Min.	Time.
0.1	21h 21st	<0.1	4h 22nd.

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
66	45	-	-
64	50	Tr.	-
64	52	Tr.	-
63	46	6	Tr.
64	57	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 23rd July 1931.

No. 25445

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 22nd July: Barom. at M.S.L. mb. (1)	Change in 3 hours. (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)	1019.5	-12	SW	4	c	70	65	8	4	-	-	7-8	7-8	2500
	Croydon	1019.8	-4	SW	3	c	67	75	8	7	-	-	9	9	2500
	S. Farnborough	1019.5	-4	SW	3	c	68	75	8	5	-	-	9	9	2500
	Winchester	1020.2	-2	SW	4	c	62	85	8	5	1	-	7-8	9+	1500
	Boscombe Down	1020.1	-2	SW	3	0	63	85	8	5	-	-	10	10	1500
	Calshot, S'thmtn	1020.9	-2	SW	5	c	64	75	8	5	-	-	9	9	1500
	Dungeness	*	*	SW	4	bc	*	*	7	4	1	*	2-3	4-6	2500
	Lympne	1020.4	-2	SW's	4	c	64	85	8	5	3	-	9	9+	1500
2	Shoeburyness	1019.7	-2	WSW	3	bc	71	65	8	1	-	-	2-3	2-3	5700
	Felixstowe	1018.7	-4	SW	3	bc	71	65	8	1	-	8	2-3	2-3	4000
	Gorleston	1016.9	0	SW	4	c	75	75	6	2	6	-	4-6	7-8	4000
	Cranwell	1015.5	-10	SW'W	4	c	72	65	6	2	-	-	7-8	7-8	4000
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1016.8	-4	SW	4	c,p	69	65	8	6	8	9	4-6	7-8	1500
	Upper Heyford	1018.2	-2	SW	4	c	68	75	7	8	3	-	4-6	7-8	2500
	Leafield	1017.9	0	SW	4	c	68	75	8	8	8	9	9+	9+	4000
4	Ross-on-Wye	1017.8	+4	SW	4	c	65	75	7	8	-	-	9	9	4000
5	Portland Bill	1020.8	+2	SW	4	c	60	85	8	4	7	-	4-6	7-8	2500
	Plymouth	1020.6	-6	SW	4	c	60	85	8	5	-	-	9+	9+	450
	Falmouth	1020.2	-6	SW's	5	id.	59	95	7	5	2	-	7-8	10	4000
	Scilly (St. Mary's)	1019.3	-6	SW's	5	c	60	85	7	8	-	-	7-8	7-8	4000
	Guernsey	1022.2	-2	WSW	2	bc	65	75	8	8	-	-	4-6	4-6	2500
6	Pembroke	1017.0	-4	SW	3	c	60	95	7	5	-	-	9+	9+	450
7	Holyhead	1013.9	-6	SSW	6	0	60	95	6	5	-	-	10	10	450
	Chester (Sealand)	1015.5	0	SW's	4	c	71	65	9	7	3	9	4-6	7-8	2500
8	L'pool (Bidston)	1014.6	-2	SW'W	5	c	65	75	9	7	-	8	7-8	7-8	4000
9	Harrogate	1013.7	-6	S'W	4	c	70	65	7	3	-	1	7-8	9	2500
10	Spurn Head	1014.2	0	W'S	4	c	73	75	7	2	6	-	4-6	7-8	4000
	Tynemouth	1011.3	-6	SW	3	c	66	75	7	6	-	-	7-8	7-8	1500
11	Inchkeith	1008.3	-12	SW	3	c	63	85	8	8	8	-	9	9+	4000
12	Leuchars	1008.3	-6	WSW	4	c	65	75	8	7	7	-	7-8	10	1600
	Renfrew	1008.6	-14	SW's	6	q	66	75	7	7	3	9+	7-8	9	1500
	Eskdalemuir	1010.8	-4	SW	6	0	59	95	7	5	-	-	10	10	220
13A	Tiree	1003.2	-16	S	5	r.	60	95	6	6	2	-	4-6	10	800
13B	Stornoway	1000.5	-20	SSW	6	id	58	95	6	9	2	-	9	10	800
15	Dalwhinnie	1005.4	-20	?	-	c	54	85	8	5	3	-	4-6	10	800
	Aberdeen	1006.6	-2	SSW	3	c	66	75	8	7	4	8	2-3	7-8	4000
	Wick	1003.1	-8	SSW	3	c	60	85	8	8	-	8	7-8	10	2500
16	Lerwick	1004.1	-10	S'E	3	fo	53	95	3	6	-	-	10	10	220
17	Blacksod Point	1003.8	-34	S	6	RR	60	95	7	6	-	-	10	10	<150
18	Malin Head	1004.3	-20	S	6	c	64	85	7	5	-	-	9+	9+	1500
	Aldergrove	1008.1	-18	S	4	p	65	75	8	5	7	-	9	9+	1500
	Donaghadee	1009.5	-8	WSW	3	c	64	85	7	8	2	-	4-6	7-8	1500
19	Birr Castle	1009.4	-18	S	4	c	67	75	8	5	-	-	9+	9+	1500
20	Valentia Obsy.	1010.1	-20	S'E	6	r.	61	95	6	6	-	-	10	10	800
	Roches Point	1013.8	-6	SW	3	dd	58	95	5	5	-	-	10	10	450

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 18h. G.M.T. 22nd July: Barom. at M.S.L. mb. (15)	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)	1018.3	-6	SW's	4	bc	69	65	8	7	-	-	4-6	4-6	4000	0	*
	Croydon	1018.4	-10	SW'W	3	bc	65	75	8	1	-	9	2-3	2-3	2500	0	*
	S. Farnborough	1018.2	-10	SSW	3	b	64	75	8	1	4	-	Tr.	Tr.	2500	1	*
	Winchester	1018.4	-10	SSW	4	b	63	75	8	1	-	5	1	1	2500	0	*
	Boscombe Down	1018.7	-6	WSW	3	b	63	75	8	7	-	-	1	1	1500	0	*
	Calshot, S'thmtn	1019.6	-8	SW'W	3	bc	62	75	8	5	-	5	2-3	4-6	1500	0	2
	Dungeness	*	*	SW	3	bc	*	*	7	4	7	*	1	2-3	4000	*	2
	Lympne	1019.9	-4	SW	4	bc	62	85	8	-	4	-	0	2-3	-	0	*
2	Shoeburyness	1018.5	-8	SW	4	bc	67	75	8	1	-	5	2-3	2-3	4000	0	*
	Felixstowe	1017.8	-2	SW's	5	bc	67	75	8	1	4	9	2-3	4-6	4000	0	2
	Gorleston	1016.0	-6	SW	4	bc	74	65	6	2	-	9	2-3	4-6	2500	0	3
	Cranwell	1014.2	-8	SW	4	bc	69	65	7	2	3	-	2-3	2-3	4000	8	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1015.7	-8	SW	4	c	65	75	8	5	-	2	7-8	9	2500	1	*
	Upper Heyford	1016.7	-6	SSW	4	bc	65	85	8	7	-	-	4-6	4-6	2500	0	*
	Leafield	1016.3	-6	SSW	4	bc	65	75	9	7	-	1	2-3	2-3	4000	0	*
4	Ross-on-Wye	1016.2	-8	WSW	3	c	63	85	7	8	-	-	9+	9+	2500	0	*
5	Portland Bill	1019.3	-10	SW'S	4	bc	59	85	8	2	-	-	4-6	4-6	2500	0	3
	Plymouth	1018.8	-12	SSW	3	c	59	95	8	6	-	2	Tr.	9	1500	1	1
	Falmouth	1017.9	-8	SW	5	q	60	85	8	2	3	4	2-3	4-6	4000	0	3
	Scilly (St. Mary's)	1017.6	-10	SW'W	5	bc	61	85	7	1	4	-	2-3	4-6	4000	0	3
	Guernsey	1020.5	-10	E	1	bc	62	75	8	-	1	-	0	2-3	-	0	1
6	Pembroke	1014.5	-6	SW'S	4	c	59	85	7	5	-	-	9+	9+	800	0	3
7	Holyhead	1011.8	-14	SSW	6	q	58	95	6	5	-	-	10	10	800	0	3
	Chester (Sealand)	1013.3	-10	SSW	2	c	68	65	9	5	3	8	4-6	9	2500	0	*
8	L'pool (Bidston)	1012.7	-10	SW's	3	c	66	75	9	4	3	9	4-6	7-8	2500	0	*
9	Harrogate	1012.2	-10	SSW	4	c	67	65	7	3	-	9	4-6	7-8	2500	1	*
10	Spurn Head	1013.0	-2	WSW	4	bc	70	75	7	-	1	9	0	4-6	-	0	2
	Tynemouth	1009.8	-8	SW	4	c	66	65	7	9	-	-	7-8	7-8	2500	0	2
11	Inchkeith	1006.3	-14	SSW	4	c	62	85	8	5	5	-	4-6	7-8	2500	0	2
12	Leuchars	1005.8	-14	SSW	4	c,p	63	85	7	8	8	8	7-8	9	2500	1	*
	Renfrew	1004.9	-26	SSW	5	r.r.	62	95	5	6	-	-	10	10	800	1	*
	Eskdalemuir	1008.1	-20	SW's	6	id	56	95	5	5	-	-	10	10	220	1	*
13A	Tiree	1001.1	-10	SSW	4	c	59	95	7	5	6	-	2-3	7-8	1500	1	3
13B	Stornoway	998.7	-4	SSW	4	c	59	95	8	3	7	-	4-6	7-8	1500	1	3
15	Dalwhinnie	1005.9	-20	N	2	r	59	85	6	5	4	-	7-8	10	450	1	*
	Aberdeen	1004.4	-10	S	3	c	63	75	8	5	4	-	7-8	9	2500	1	1
	Wick	1001.5	-14	SSW	4	ir.	58	85	8	8	2	-	7-8	9+	1500	1	2
16	Lerwick	1002.1	-16	S	1	c	54	95	6	5	2	-	4-6	9+	800	1	*
17	Blacksod Point	1004.7	+2	SW	6	c	60	85	8	2	5	9	2-3	7-8	800	0	5
18	Malin Head	1002.4	-2	WSW	4	pr	61	95	7	8	6	-	7-8	9	1500	1	3
	Aldergrove	1006.1	-12	S	4	ir	61	95	7	6	1	-	9	10	450	1	*
	Donaghadee	1005.6	-20	SW	3	pr	60	95	7	3	-	-	7-8	7-8	1500	1	2
19	Birr Castle	1007.9	-6	SW	3	rr	60	95	7	6	-	-	10	10	1500	1	*
20	Valentia Obsy.	1010.1	+2	SW'S	5	c	60	95	8	5	-	-	9+	9+	800	1	3
	Roches Point	1011.5	-14	SW	4	rr	58	95	6	6	-	-	10	10	800	1	4

District	Stations. (For heights see p. 4.)	PAST 24 HOURS. Weather. 7h.–13h. 22nd (37)	13h.–18h. 22nd (38)	18h. 22nd to 1h. 23rd (39)	1h.–7h. 23rd (40)
1	London (Kew)	oc	bc	b	bcm.bc
	Croydon	c	cd.bc	bbcbw	bwcw.
	S. Farnborough	c	cb	b	bwcw
	Winchester	cpr.c	cbcb	bcc,bc	bcw
	Boscombe Down	o	c, b	cbc	bccom
	Calshot, S'thmtn	bc	cbc	bcw	bcw
	Dungeness	bc	bc	*	b
	Lympne	c	cbc	bw	bwm.bc
2	Shoeburyness	cbc	bc	bcb	b
	Felixstowe	cbc	bc	b	b
	Gorleston	cbcc	cbcq	bc	bc
	Cranwell	cbc	bc	bccbc	bcc
3	Cardington	*	*	*	*
	Birmingham	bc	cbcc	cbc	bc
	Upper Heyford	bc	cbc	bcb	bbcwc
	Leafield	bcc	cbc	bccw	c
4	Ross-on-Wye	cbcc	bcc	c	co
5	Portland Bill	c	cbc	bcwbc	bc
	Plymouth	om.d.c	bcc	bbc	bccw
	Falmouth	cid.	cd.bcq	bcq	bcc
	Scilly (St. Mary's)	foidc	c	bcc	cidf
	Guernsey	cbc	bcb	bcbw	bc
6	Pembroke	ifc	cid.f	omrd	omrd
7	Holyhead	od.fom.	om.q	idmq	ocm.
	Chester (Sealand)	bccvq	cr.q.v	cv	o
8	L'pool (Bidston)	vcbcc	cv	co	od.c
9	Harrogate	c	cbc	bccq	c
10	Spurn Head	bc	cbc	cbc	bc
	Tynemouth	c	cq	coq	o
11	Inchkeith	c	c	cpr	c
12	Leuchars	c	cp.r	cr.prc	c
	Renfrew	cid.q	epr.q	Rir.	oc
	Eskdalemuir	co	ofod	odrrc	c
13A	Tiree	or.rr	rrcbc	cpr.	c
13B	Stornoway	oid	oid	cid	cpdr
15	Dalwhinnie	c	r		rc
	Aberdeen	bc	bc	cir.	cbcb
	Wick	c	cir.	cir.c	cprc
16	Lerwick	or.r.mf	oprr.cm.	or.r.	oir.bcfe
17	Blacksod Point	rrq	cbcq	prcq	prcq
18	Malin Head	c	cRbc	cp.bcce	cpr.cib
	Aldergrove	cp.r	p.cir	crc	cp.c
	Donaghadee	c	cp.r	cpr.c	c
19	Birr Castle	c	corr	orcpr	cpr
20	Valentia Obsy.	cir.	crr.p.c	cbdc	cprc
	Roches Point	ofdd	odorr	orc	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. z, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r_o, slight rain. rr, continuous rain.
< , less than (for cloud height).
⊕, Solar halo. ⊗, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

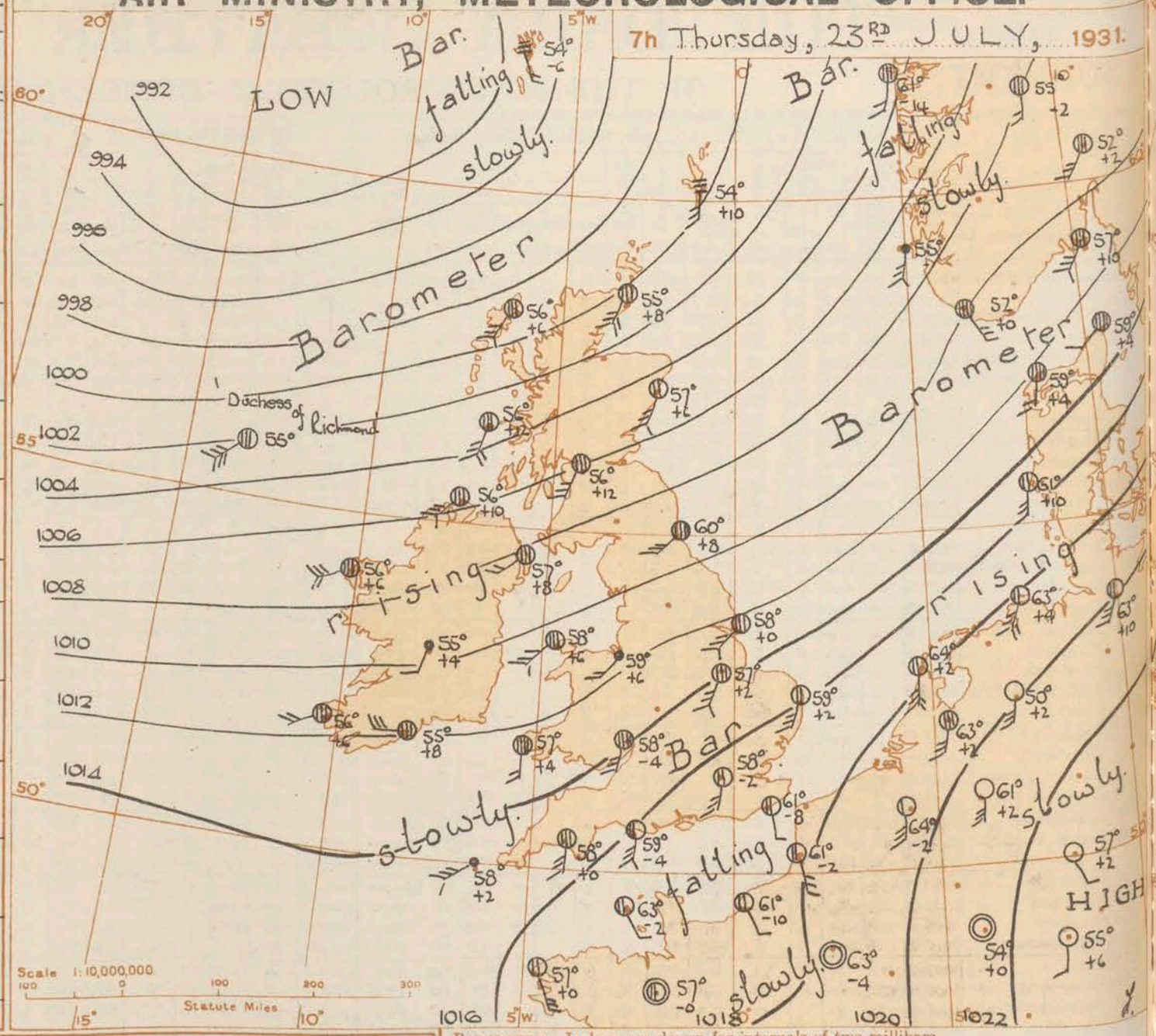
REPORTS from HEALTH RESORTS for 22nd July 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h 21st to 9h 22nd	Temperature. Max. 9h.—17h. 22nd	Rainfall. Night. 17h 21st to 9h 22nd	Rainfall. Day. 9h.—17h. 22nd	Sunshine. Sunrise to 17h. 22nd	Sunshine. Sunrise to Sunset. 21st
1	Tunbridge W.	oco	ocb	54	67	-	-	1.9	7.3
	Bournemouth	o	cbc	55	65	-	-	3.2	9.9
	Ventnor ...	covc	cb	56	62	-	-	5.1	9.3
	Southsea ...	o	ocb	58	66	-	-	3.1	9.7
	Bognor Regis	bcobc	bcb	59	67	-	-	6.4	9.6
	Littlehampton	bc	bc	57	64	-	-	6.3	9.2
	Worthing ...	cbc	cbcb	58	65	-	-	5.5	9.1
	Brighton ...	oc	cbcb	59	64	-	-	6.3	8.0
	Eastbourne†	ocbc	bcb	58	64	-	-	6.6	10.0
	Hastings† ...	cbcc	cbcb	55	67	-	-	5.0	9.1
	Folkestone ...	oc	cbc	54	68	-	-	4.8	7.2
	Dover... ...	c	cbc	56	63	-	-	3.1	6.4
	Deal	bc	b	54	69	-	-	6.0	12.0
	Ramsgate ...	bc	bc	55	69	-	-	6.3	11.1
	Margate ...	cbc	bc	55	72	-	-	5.9	11.1
2	Southend ...	bcb	bbcco	56	73	-	-	7.4	7.6
	Maldon ...	cbcb	b	50	74	-	-	7.8	6.9
	Clacton-on-Sea	cbc	bc	56	72	-	-	8.1	9.1
	Dovercourt ...								
	Lowestoft ...	bc	bc	53	74	-	-	8.1	8.7
	Skegness ...	b	bcb	55	77	-	-	8.7	6.9
	Mablethorpe	cbc	bbc	53	77	-	-	9.4	9.5
	Cleethorpes ...	cb	b	55	77	-	-	9.7	6.9
3	Leamington S.	bc	bcc	56	72	-	-	8.3	3.4
4	Cheltenham†								
5	Bath	cbc	cbc	58	70	-	-	2.9	7.4
	Weymouth ...	oc	cb	58	66	-	-	2.7	9.0
	Jersey ...	bc	b	58	70	-	-	11.5	13.8
	Torquay ...	cbc	b	57	67	-	-	5.7	11.0
	Penzance ...	omdc	cdb	58	65	0.5	Tr.	2.9	8.2
	St. Ives ...	bcpdc	c	57	64	Tr.	Tr.	3.4	14.3
	Bude	c	c	58	63	0.4	-	0.1	10.8
	Ilfracombe ...	oc	c	58	66	-	-	0.3	10.8
6	Aberystwyth	pomrc	cpmr	56	64	0.3	0.5	0.8	3.8
7	Llandudno ...	c	cbc	57	70	-	-	4.3	2.2
	Colwyn Bay...	cbbc	bcc	58	68	-	-	5.0	1.8
	Rhyl								
8	Wallasey ...	bc	bcbc	56	71	Tr.	-	4.8	4.5
	Southport‖ ...	cbc	bcc	56	72	0.2	-	6.7	3.2
	Blackpool ...	cbc	bcc	55	69	0.3	-	5.4	1.5
	Morecambe ...	cbbcb	cbc	55	67	1	-	4.3	0.5
9	Ilkley	bcc	bc	55	73	-	-	6.0	3.4
10	Berwick-on-T.	c	c	53	66	1	-	0.7	4.3
11	Dunbar ...	bc	bc	54	70	1	-	1.6	3.1
12	Douglas ...	cbco	omq	53	60	0.5	-	1.4	1.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Thursday, 23rd JULY, 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS:—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind southwesterly, moderate; mainly fair; moderate temperature or rather warm.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind west or southwest, moderate, fresh locally; cloudy and brighter intervals; showers; perhaps further rain later; moderate temperature.
9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southwesterly, moderate, fresh locally; mainly fair, apart from occasional showers; moderate temperature.
13. A. W Scotland B. N.W. Scotland	Wind southwesterly, fresh or strong, perhaps variable later; cloudy; showers; moderate or rather low temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind southwesterly, moderate or fresh; cloudy, bright intervals; showers; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southwesterly, moderate or fresh, perhaps strong locally at times; cloudy and brighter intervals with showers; probably further rain later; moderate temperature.

GENERAL INFERENCE.

Pressure is high over Central Europe. A depression between Scotland and Iceland is almost stationary while another depression some hundreds of miles west of Ireland is moving east. Conditions will continue rather unsettled in the North and West but will be mainly fair in the Southeast.

FURTHER OUTLOOK.

Rather unsettled.

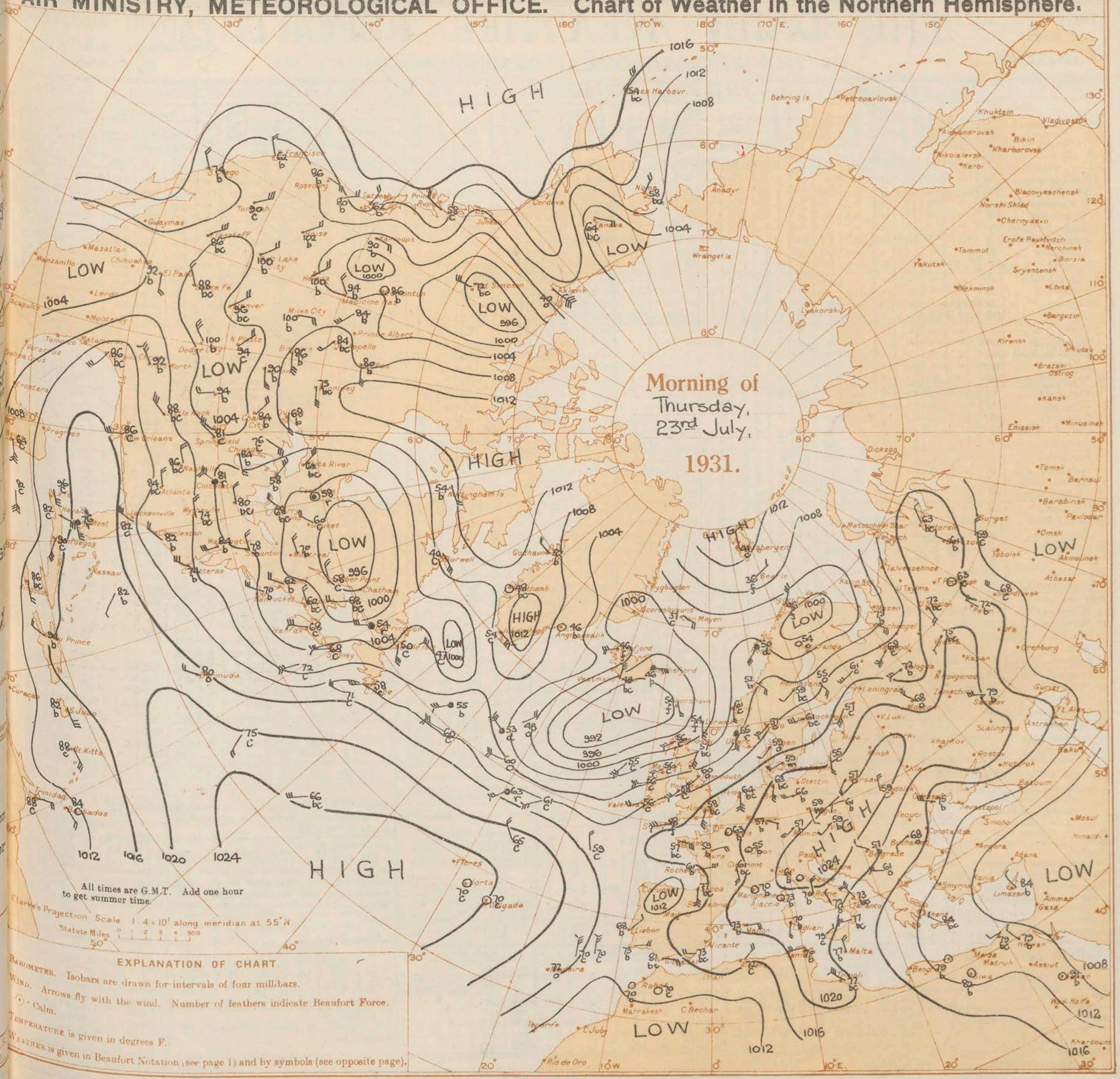
Time of Issue of Gale Warning.
South Cone at 1400 G.M.T. on 22nd in 13A, 13B, 17 and 20.

Forecasts issued at 0920 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press

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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 23rd July 1931.

No. 25445.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1017.9	-6	SSW	3	b	54	95	7	-	-	1	0	1	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1018.4	-6	SW'S	3	bc	57	95	8	5	-	-	2-3	2-3	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1018.9	-2	SSW	2	b	54	95	7	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1015.8	-4	SW'S	3	bc	60	85	7	-	4	-	0	2-3	-
	Cranwell ...	240	1013.9	-4	SW'S	3	bc	59	85	7	5	-	8	4-6	4-6	1500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1017.6	-10	SW	4	bc	58	95	8	4	4	-	2-3	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1017.2	-6	SW'S	4	bc	57	95	8	8	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	163	1016.0	-10	WSW	5	c	58	85	7	4	-	-	7-8	7-8	4000
	Guernsey ...	175	1019.5	-6	-	0	bc	54	95	8	2	-	-	2-3	2-3	2500
6	Pembroke ...	142	1012.5	-6	SW	4	dr	58	95	4	5	-	-	10	10	4150
7	Holyhead ...	26	1010.3	-2	SW'S	6	q	57	95	5	5	-	-	10	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1012.5	-2	SW'S	4	bc	60	85	7	4	1	-	2-3	4-6	5700
	Tynemouth ...	67	1008.2	-6	SW	3	o	61	85	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1004.5	0	SW	4	c	58	85	8	5	2	-	7-8	10	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	997.6	-2	SSW	3	c	55	95	7	9	-	-	7-8	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	998.7	-8	SW	5	c	56	85	8	6	1	8	4-6	7-8	1500
16	Lerwick ...	54	998.5	-10	S	1	o/r	54	95	7	6	-	-	10	10	1500
17	Blacksod Point	18	1005.9	+6	WSW	4	c	56	85	7	3	-	-	9	9	450
18	Malin Head ...	52	1004.1	+6	S	4	c	57	95	7	4	-	-	9+	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1010.6	0	SW	5	c	57	95	6	3	-	-	9	9	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °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)	Sss. 0-9 (30)
1	London (Kew)...	1016.8	-4	SW	2	c	60	85	7	4	9	1	2-3	7-8	2500	0	*
	Croydon ...	1017.1	-2	SSW	3	bc	58	85	7	5	-	9	Tr	4-6	800	0	*
	S. Farnborough	1016.4	-6	SSW	2	c	59	85	7	5	3	2	4-6	9	1500	1	*
	Winchester ...	1016.2	-2	S'W	3	bc	57	95	7	-	-	2	2-3	4-6	1500	0	*
	Boscombe Down	1016.1	-6	SSW	3	c	56	95	7	5	3	-	7-8	7-8	450	0	*
	Calshot,(S'thmtn)	1016.9	-2	SSW	3	bc	61	85	8	-	4	2	1	4-6	2500	0	1
	Dungeness ...	*	*	S	1	bc	*	*	7	1	3	*	1	2-3	5700	*	0
	Lympne ...	1017.2	-8	S'E	1	bc	61	95	7	-	4	-	0	2-3	-	0	*
2	Shoeburyness	1017.3	-2	S'W	3	bc	62	75	7	-	9	8	0	2-3	-	0	*
	Felixstowe ...	1017.6	+2	SW'S	3	b	62	75	8	-	-	9	0	1	-	0	1
	Gorleston ...	1016.3	+2	SW'S	3	bc	59	75	7	-	4	6	0	4-6	-	0	3
	Cranwell ...	1013.8	+2	SSW	4	c	57	85	7	5	3	6	1	9+	2500	0	*
3	Cardington ...	1015.1	-2	SSW	3	c	59	75	8	5	3	6	2-3	9	2500	*	*
	Birmingham ...	1014.0	-2	SSW	4	c	56	85	8	-	7	8	0	9+	-	1	*
	Upper Heyford	1015.6	-4	SSW	4	c	56	95	7	-	-	9	7-8	9+	800	0	*
	Leafield ...	1015.1	-6	S'W	3	c	54	95	8	-	-	9	9+	9+	1500	0	*
4	Ross-on-Wye ...	1014.5	-4	SSW	3	o	58	85	7	-	-	-	10	10	2500	0	*
5	Portland Bill....	1016.3	-4	SSW	4	bc	59	95	7	4	4	8	2-3	4-6	2500	0	3
	Plymouth ...	1015.7	0	SSW	3	c	58	95	7	4	-	8	7-8	9	2500	0-1	2
	Falmouth ...	1015.9	+4	SW'S	3	c	58	95	8	5	3	-	4-6	7-8	4000	0-1	2
	Scilly (St. Mary's)	1014.8	+2	WSW	4	drz	58	95	8	-	-	-	10	10	<150	0-1	2
	Guernsey ...	1017.0	-2	ESE	1	bc	63	75	7	-	-	-	0	4-6	-	0	1
6	Pembroke ...	1012.7	+4	S	2	c	57	95	6	5	-	-	10	10	220	1	2
7	Holyhead ...	1011.0	+6	SW'W	4	c⊕	58	85	6	5	4	8	1	9+	5700	1	1
	Chester (Sealand)	1011.8	+6	SW'W	2	id	59	95	6	5	-	-	10	10	1500	1	*
8	L'pool (Bidston)	1011.3	0	S	2	c	58	95	6	5	2	-	9	9+	2500	1	*
9	Harrogate ...	1011.3	0	S'E	3	c	57	95	6	6	2	-	9	10	2500	1	*
10	Spurn Head ...	1012.6	0	SW	4	c	58	85	7	-	7	8	0	9+	-	0	3
	Tynemouth ...	1008.8	+8	SW	3	o	60	75	6	6	-	-	10	10	1500	0	1
11	Inchkeith ...	1006.4	+8	SW	4	c	56	85	8	5	2	1	4-6	9	4000	0	2
	Leuchars ...	1006.3	+16	SW	4	c	57	85	8	5	6	1	7-8	9	1500	1	*
12	Renfrew ...	1006.5	+12	SW	3	c	56	85	7	5	-	-	9+	9+	800	1	*
	Eskdalemuir ...	1008.4	+12	SW'W	5	c	53	85	7	5	-	-	10	10	800	1	*
13A	Tiree	1002.8	+12	SW'S	5	c	56	95	7	5	6	-	4-6	7-8	1500	0	3
13B	Stornoway ...	998.1	+6	SW	4	c	56	95	7	5	7	9	4-6	7-8	2500	1	3
15	Dalwhinnie ...	1002.8	+4	SW	2	c	52	95	6	4	-	-	9	9	1500	1	*
	Aberdeen ...	1004.0	+6	SSW	4	bc	57	85	7	4	-	-	2-3	2-3	2500	1	1
	Wick	1000.6	+8	SW	5	c	55	85	8	1	6	6	4-6	7-8	2500	0	3
16	Lerwick ...	999.4	+10	S	3	c	54	95	7	5	-	-	10	10	<150	1	*
17	Blacksod Point	1007.5	+6	WSW	5	c	56	85	8	3	-	-	9	9	1500	0	3
18	Malin Head ...	1005.3	+10	SW'W	4	dp	56	95	7	3	9	-	2-3	7-8	2500	0	3
	Aldergrove ...	1007.8	+8	S'W	4	c	56	85	8	8	7	8	4-6	9	1500	1	*
	Donaghadee ...	1008.6	+8	SW	2	c	57	85	8	5	-	-	7-8	7-8	1500	0	1
19	Birr Castle ...	1005.7	+4	SSW	1	br	55	95	7	6	-	-	9+	9+	1500	1	*
20	Valentia Obsy.†	1011.8	+6	WSW	2	lc	56	85	8	5	7	-	4-6	9	2500	1	3
	Roches Point...	1012.2	+8	W	3	c	55	95	8	5	-	8	4-6	7-8	1500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 22nd Hrs. (36)
1	London (Kew)...	71	54	46	-	-	6.3
	Croydon ...	69	54	52	Tr	Tr	6.9
	S. Farnborough	69	53	49	-	-	5.3
	Winchester ...	67	52	50	Tr	-	4.8
	Boscombe Down	66	52	49	-	-	*
	Calshot,(S'thmtn)	66	56	52	-	-	7.9
	Dungeness ...	66	57	*	-	-	*
	Lympne ...	66	53	50	-	-	5.7
2	Shoeburyness	72	54	52	-	-	8.1
	Felixstowe ...	73	58	54	-	-	9.8
	Gorleston ...	75	54	51	-	-	10.1
	Cranwell ...	76	55	54	-	-	11.0
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	71	54	53	-	-	8.1
	Upper Heyford	70	52	49	-	-	*
	Leafield ...	69	51	48	-	-	6.8
4	Ross-on-Wye ...	69	56	54	-	-	5.3
5	Portland Bill....	61	57	*	-	-	*
	Plymouth ...	62	56	53	Tr	-	1.8
	Falmouth ...	61	56	*	Tr	-	5.7
	Scilly (St. Mary's)	64	57	*	0.1	Tr	6.6
	Guernsey ...	68	52	47	-	-	11.3
6	Pembroke ...	60	56	*	Tr	4	0.3
7	Holyhead ...	61	56	56	Tr	1	0.0
	Chester (Sealand)	75	58	56	Tr	0.2	6.6
8	L'pool (Bidston)	71	58	56	-	Tr	5.9
9	Harrogate ...	72	57	54	-	-	4.6
10	Spurn Head ...	76	57	*	-	-	9.3
	Tynemouth ...	73	58	55	-	-	*
11	Inchkeith ...	65	54	51	-	0.6	1.7
	Leuchars ...	68	53	49	Tr	1	0.7
12	Renfrew ...	68	54	50	3	5	1.7
	Eskdalemuir ...	60	512	51	0.5	13	0.2
13A	Tiree	60	54	51	9	Tr	1.1
13B	Stornoway ...	59	54	*	0.3	1	1.2
15	Dalwhinnie ...	64	50	47	4	5	2.5
	Aberdeen ...	73	54	49	-	Tr	3.9
	Wick	65	51	*	0.2	1	*
16	Lerwick ...	55	53	*	11	5	0.0
17	Blacksod Point	63	52	*	13.12	2	*
18	Malin Head ...	64	54	*	4	0.3	2.4
	Aldergrove ...	67	52	46	4	0.3	0.6
	Donaghadee ...	67	53	*	0.4	1	*
19	Birr Castle ...	68	52	47	4	1	0.4
20	Valentia Obsy.†	63	53	51	3	0.6	0.2
	Roches Point...	59	54	*	4	3	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	oc	b	bbcm	71	54	46	-	-	6.9	•	•	8
Croydon	217	c	cd bc	bbcbwm	69	54	52	Tr	Tr	6.9	•	•	8
Greenwich (Royal Observatory) ...	149	c	cbc	bwbcy	76	54	45	-	Tr	7.4	68	58	7
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	7.9	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	70	56	52	-	-	7.8	67	62	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	6.9	•	•	•
Camden Square	110	c	cbc	•	72	55	52	-	-	•	•	66	•
Kensington	80	cbc	bc	•	71	55	48	-	-	7.2	At 18h. 65		•
Hampstead Observatory	450	cbc	bc	•	69	52	45	-	-	7.3	73	76	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
Defective		Record	

Kew Observatory. Max.	Time.	Min.	Time.
0.2	6h 23rd	<0.1	14h-18h 22nd

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 22nd July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 23rd July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	1020.5	SE	2	b	70	1018.9	-	0	b	63	73	50	-	-
Brussels	1020.3	SW	2	bc	64	1019.4	S	3	b	61	70	54	-	-
Berlin	1019.6	SSW	3	c.c.	57	1022.2	W	2	b	66	64	57	1	?
Zürich	1021.2	ENE	1	b	66	1021.6	W	1	b	52	72	46	-	-
Rome	1016.5	N	4	b	81	1020.5	N	2	b	70	86	55	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31 m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

FRIDAY, 24TH JULY 1931.

No. 25446.

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 23rd July: Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)	OBSERVATIONS at 18h. G.M.T. 23rd July: Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	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)	PAST 24 HOURS. Weather. 7h.–13h. 23rd (37)	13h.–18h. 23rd (38)	18h. 23rd to 1h. 24th (39)	1h.–7h. 24th (40)
1	London (Kew)...	1015.1	-12	SW	3	c	72	55	8	1	3	2	1	7-8	4000	1014.1	-6	S'W	3	c	74	55	8	1	7	8	Tr.	9	4000	0	*	bcy	bcycy	c	bccm.w
	Croydon ...	1015.4	-10	SW'W	3	c	72	55	8	1	-	5	1	7-8	4000	1014.6	-4	SW'W	3	c	69	65	8	-	9	9	0	7-8	-	0	*	bccy	cbcy	bcb.w	bm.wc
	S. Farnborough	1014.7	-12	SSW	3	c	73	55	8	1	5	2	Tr.	7-8	2500	1014.2	-2	SW'S	2	c	67	55	8	-	9	8	0	7-8	-	0	*	cwbc	cy	c	c
	Winchester ...	1015.3	-6	SW	3	c	68	55	8	1	5	9	1	7-8	2500	1014.4	-2	SW'S	3	c	65	75	8	-	3	9	0	9	-	0	*	bcy	bcy y.	c	fc
	Boscombe Down	1015.1	-8	SSW	4	c	69	65	8	1	3	2	Tr.	7-8	2500	1014.4	-6	SW	3	c	63	75	8	-	-	2	0	9	-	0	*	cbc	bcc	cm.	cm.
	Calshot, S'thmtn	1016.1	-6	WSW	3	bc	69	55	8	1	5	2	Tr.	4-6	2500	1015.2	-8	WSW	2	c	65	65	8	-	-	2	0	7-8	-	0	1	bc	bc	bcw	bcwc
	Dungeness ...	*	*	S	1	bc	*	*	7	1	3	*	1	2-3	4000	*	*	WSW	1	bc	*	*	7	-	5	*	0	2-3	-	*	0	bc	b	•	bc
	Lympne ...	1016.6	-10	SE	2	bc	69	65	8	1	-	1	1	2-3	4000	1014.7	-6	SW'W	2	b	71	55	9	-	-	1	0	Tr.	-	0	*	bcb	bvy	bw	bwc
2	Shoeburyness	1015.4	-10	SW	3	bc	76	75	8	1	9	1	4-6	4-6	4000	1014.4	-4	S'W	2	bc	70	75	8	-	5	6	0	4-6	-	0	*	bbc	bcb	bc	bwc
	Felixstowe ...	1016.7	-8	SSE	3	bc	69	75	8	1	-	2	1	2-3	4000	1014.7	-6	S	3	bc	68	65	8	-	-	4	0	4-6	-	0	2	bbcvy	bcy	bc	bccm.w
	Gorleston ...	1015.0	-10	S'E	5	bc	67	85	7	1	-	9	2-3	4-6	4000	1014.2	-2	S	4	bc	67	75	7	1	-	9	Tr.	4-6	4000	0	2	bcq	bcq	bcc	bcc
	Cranwell ...	1014.2	+4	SW'S	4	c	65	75	8	9	2	-	7-8	10	2500	1013.5	-4	WSW	1	c	66	85	7	4	2	-	4-6	10	4000	0	*	cp.	cp.	cm.	bccm.
3	Cardington ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	c	c
	Birmingham ...	1014.2	+2	SW	3	ir.	62	85	8	6	2	-	4-6	9+	1500	1013.5	-4	SW	2	c	63	75	8	6	-	-	9+	9+	2500	1	*	cd.	cp.r	c	cpr.o
	Upper Heyford	1014.6	-6	SSW	4	c	68	65	8	5	7	2	4-6	7-8	2500	1013.8	-2	SSW	2	c	67	65	8	5	7	2	2-3	9	4000	0	*	cbc	bccy	cbc	cdm.w
	Leafield ...	1014.3	-6	SSW	3	c	67	65	9	7	7	6	7-8	9	4000	1013.5	-6	SW'S	2	c	65	75	9	-	7	7	0	7-8	-	0	*	c	bcc	cbcw	c
4	Ross-on-Wye ...	1014.5	0	SW	3	0	61	85	7	5	-	-	10	10	2500	1013.2	-10	WSW	3	c	64	85	7	5	7	-	4-6	9+	2500	0	*	oip.co	oc	co	oco
5	Portland Bill...	1015.9	-6	SSW	3	bc	62	85	8	4	4	1	2-3	4-6	2500	1014.5	-8	S'W	3	c	60	85	8	4	7	2	4-6	7-8	2500	0	3	bc	bcc	cbc	bccwc
	Plymouth ...	1015.4	-4	SSW	3	bc	62	95	8	5	3	1	4-6	4-6	1500	1014.4	-6	SSW	3	c	60	95	8	6	1	6	1	9+	2500	0	1	cbc	bcc	c	coid.m.
	Falmouth ...	1015.2	-2	SW	4	c	60	85	8	5	-	-	10	10	4000	1014.3	-4	SW	3	c	60	95	8	5	-	-	10	10	4000	0	2	c	c	com.d	emd.bc
	Scilly (St. Mary's)	1014.4	-4	WNW	2	0	59	95	6	5	-	-	10	10	1500	1014.2	-4	WSW	2	c	67	95	7	5	-	-	9+	9+	4000	1	1	dffo	ofir	ircbc	bcwc
	Guernsey ...	1016.6	0	ENE	2	bc	66	75	7	1	7	-	1	2-3	2500	1015.6	-6	NNW	1	bc	65	75	7	-	7	1	0	4-6	-	0	1	bc	bc	bcw	bcw
6	Pembroke ...	1013.3	+2	SSW	2	c	59	95	7	5	-	-	10	10	800	1013.0	-2	SW	2	c	59	95	7	8	7	-	4-6	7-8	2500	1	2	cm.	cm.	c	bcc
7	Holyhead ...	1012.0	+4	SSW	4	c	60	85	8	5	3	8	2-3	10	4000	1011.9	-2	SSW	4	c	58	85	8	5	4	8	2-3	9+	4000	0	1	cm.c	c	c	c
	Chester (Sealand)	1013.0	+10	SW'W	2	c	66	65	8	5	1	-	4-6	10	2500	1012.6	-2	WSW	1	c	64	65	8	5	1	-	4-6	10	4000	0	*	d.c	c	c	ir.mid.
8	L'pool (Bidston)	1012.7	+6	W'N	2	c	62	75	9	6	1	-	2-3	9+	2500	1012.4	0	WSW	3	c	62	65	9	5	1	6	2-3	9+	4000	0	*	cv	cv	vco	ocy
9	Harrogate ...	1012.3	+6	SSW	3	bc	62	75	7	9	4	9	1	4-6	2500	1012.3	0	SW	1	c	63	65	7	6	1	-	7-8	9+	2500	1	*	cidcbc	bcc	c	cofir
10	Spurn Head ...	1013.0	0	SW	4	c	66	85	6	3	1	-	4-6	7-8	4000	1013.0	0	SW'W	3	c	65	85	7	4	2	-	4-6	9+	2500	0	1	cpr.c	cpr.c	cbc	bcc
	Tynemouth ...	1009.9	+4	SW	4	c	65	55	7	9	-	-	7-8	7-8	1500	1011.0	+6	SW	6	c	63	55	7	6	-	-	7-8	7-8	1500	0	1	oc	cq	c	co
11	Inchkeith ...	1007.3	+6	SW	4	c	60	75	8	5	3	-	4-6	9	4000	1008.4	+6	SW	4	c	59	75	8	8	5	-	7-8	9	5700	0	2	c	c	c	cir.
	Leuchars ...	1007.8	+10	WSW	4	c	62	65	8	8	6	8	4-6	7-8	2500	1008.4	+4	WSW	3	c	61	75	8	7	4	-	2-3	9	2500	1	*	cp.rc	cp.rc	cw	cwcir.
12	Renfrew ...	1008.3	+10	SW	4	cjp	61	65	8	8	3	9	4-6	7-8	2500	1009.3	+4	SW	4	ir.	59	75	8	9	-	-	9+	9+	4000	1	*	cq	cjpqc	r.c	c.r.
	Eskdalemuir ...	1009.4	+8	SW	6	c	59	65	8	8	-	-	9+	9+	1500	1010.0	+2	SW'S	5	c	57	85	8	7	4	2	7-8	9	2500	1	4	c	c	c	c
13A	Tiree	1006.5	+16	SSW	5	c	56	95	7	5	7	-	4-6	7-8	2500	1005.3	0	SSW	5	cjp	57	95	7	5	7	-	4-6	7-8	1500	1	3	cbcpr.	cpr	coir.	ocr.
13B	Stornoway ...	1001.6	+8	SW	4	p	56	95	7	9	7	-	7-8	9+	2500	1001.4	+4	SW	4	id.	55	95	7	9	-	-	10	10	2500	1	3	cpr	cirid	cid.	cid.
15	Dalwhinnie ...	1005.8	+8	SSW	4	bc	59	75	8	4	-	-	4-6	4-6	2500	1006.8	+6	S	2	c	54	85	7	3	2	-	4-6	9+	800	1	*	bc	r bc		c
	Aberdeen ...	1005.9	+10	SSW	3	c	64	55	8	2	3	-	2-3	7-8	2500	1007.0	+4	SSW	4	c	62	65	8	7	3	-	4-6	9	4000	0	1	bcy	bccyc	c	cr.r.
	Wick	1002.7	+10	SSW	5	bc	61	75	8	3	6	8	4-6	4-6	2500	1003.6	+4	SSW	5	bc	60	75	8	3	4	8	2-3	4-6	2500	0	3	cprbc	bc	cpr	crrc
16	Lerwick ...	1002.0	+12	SW	3	c/pr	57	85	7	9	-	-	7-8	7-8	1500	1003.7	+14	S	2	c/r	54	95	6	6	2	-	4-6	9+	1500	2	*	OFF.bccpr	cprirm.	cir.	c
17	Blacksod Point	1008.6	+8	WSW	5	c	57	85	7	-	1	-	0	10	-	1008.3	-6	S	4	rr	57	95	7	6	-	-	10	10	<150	1	2	ido	rr	prq	prq
18	Malin Head ...	1006.8	+6	SW	5	c/d	58	95	7	5	8	-	9	9+	1500	1007.0	0	SW'S	4	c	58	95	7	5	1	-	7-8	9+	2600	0	2	cp.	cidc	cid.r	cid.r
	Aldergrove ...	1009.4	+10	SW'S	3	c/pr	60	75	9	5	3	-	7-8	9	4000	1009.4	0	SSW	2	c	61	75	8	8	7	-	4-6	9+	4000	1	*	cbccp.	c	c	cwc
	Donaghadee ...	1009.0	+2	WSW	2	bc	67	65	8	8	3	2	4-6	4-6	4000	1009.3	+2	SW	2	c	62	75	8	5	-	-	9	9	1500	0	1	cbc	bcc	c	c
19	Birr Castle ...	1010.6	+2	SW	2	c	62	65	8	5	-	8	7-8	9+	2500	1010.3	-2	SW	3	c	61	65	8	5	-	-	9+	9+	2500	1	*	cpre	c	c	cpr.
20	Valentia Obsy.	1012.3	+2	SW'S	3	bc	62	75	8	8	3	9	2-3	4-6	1500	1011.6	-4	SW'S	3	c	59	75	8	5	1	-	7-8	9+	1500	0	2	cp.cbc	bcc	cir.	cir.ir
	Roches Point...	1012.5	+2	SW	3	c	58	85	8	3	-	-	7-8	7-8	1500	1012.3	-2	SW	2	c	60	75	8	5	-	9	4-6	7-8	2500	0	3	c	c	c	cir.c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

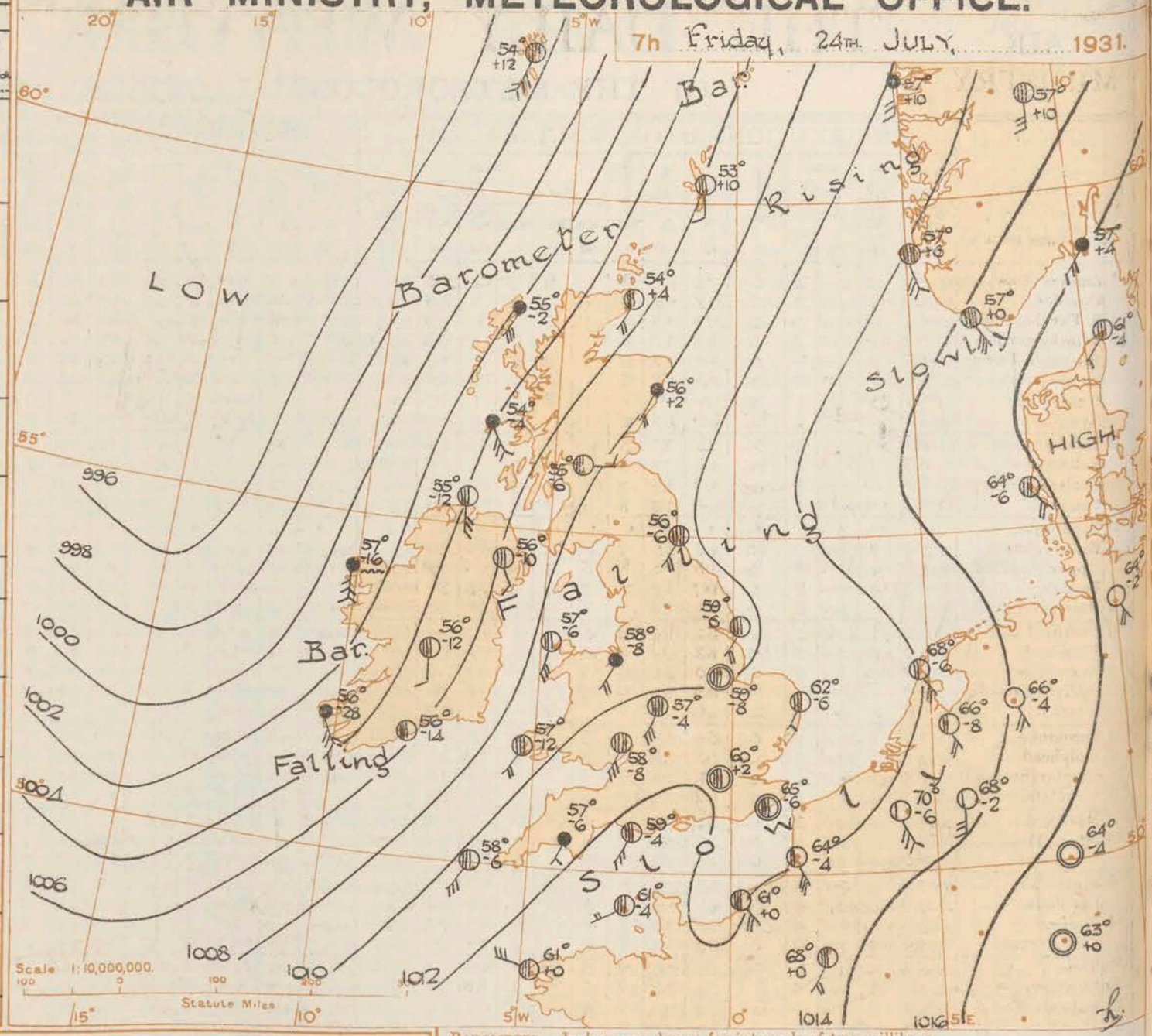
REPORTS from HEALTH RESORTS for Thursday, 23rd July 1931.

Districts	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 22nd to 9h. 23rd	Temperature. Max. 9h.—17h. 23rd	Rainfall. Night. 17h. 22nd to 9h. 23rd	Rainfall. Day. 9h.—17h. 23rd	Sunshine. Sunrise to 17h. 23rd	Sunshine. Sunrise to Sunset. 22nd
1	Tunbridge W.	b	b	52	77	-	-	12.2	4.3
	Bournemouth	b	b	55	68	-	-	11.0	5.0
	Ventnor ...	b	bbcb	55	66	-	-	11.3	7.1
	Southsea ...	b	b	55	71	-	-	10.7	5.3
	Bognor Regis	b	b	59	68	-	-	11.3	8.7
	Littlehampton	bcb	b	57	67	-	-	12.0	8.8
	Worthing ...	b	b	58	66	-	-	12.0	8.0
	Brighton ...	b	b	58	67	-	-	11.8	3.0
	Eastbourne†	b	b	55	68	-	-	11.2	9.0
	Hastings† ...	b	b	55	69	-	-	12.4	7.4
	Folkestone ...	wb	b	55	74	-	-	11.4	7.3
	Dover... ...	b	by	58	73	-	-	11.5	4.8
	Deal	b	b	54	75	-	-	11.9	8.1
	Ramsgate ...	b	b	56	75	-	-	12.1	8.4
	Margate ...	b	b	56	77	-	-	12.0	8.2
2	Southend ...	b	b	55	77	-	-	11.4	9.0
	Maldon ...	b	b	51	79	-	-	11.0	10.0
	Clacton-on-Sea	bc	bc	58	70	-	-	11.7	10.3
	Dovercourt ...								
	Lowestoft ...	b	b	54	78	-	-	12.4	9.8
	Skegness ...	ocb	b	55	71	-	-	6.4	10.7
	Mablethorpe	cbc	cbc	55	75	-	-	2.1	11.1
	Cleethorpes...	cbc	cor.o	57	68	-	Tr.	0.7	11.0
3	Leamington S.	bcco	bcco	54	68	-	-	1.6	8.9
4	Cheltenham†	woc	co	54	68	Tr.	-	0.1	4.4
5	Bath	cbc	bcc	56	71	-	-	5.1	4.4
	Weymouth ...	b	b	57	68	-	-	11.8	4.4
	Jersey ...	b	bc	57	73	-	-	11.8	13.8
	Torquay ...	wbc	bc	55	68	-	-	7.7	7.6
	Penzance ...	com	ormd3	57	62	-	0.2	0.0	4.3
	St. Ives ...	om3dm	m.m.D	56	64	-	Tr.	0.0	5.9
	Bude	o	moer.	56	62	Tr.	0.2	0.0	1.8
	Ilfracombe ...	o	o	57	65	0.5	-	0.0	1.5
6	Aberystwyth	cprc	c	58	62	3	-	0.0	0.8
7	Llandudno ...	c	cbcc	57	66	0.3	-	3.1	5.4
	Colwyn Bay...	cobc	cocbc	58	67	1	-	2.6	5.4
	Rhyl								
8	Wallasey ...	c	c	58	66	0.3	-	0.5	5.4
	Southport‖ ...	oco	ocbc	59	66	0.3	-	1.4	7.4
	Blackpool ...	c	c	59	65	1	-	2.3	6.2
	Morecambe ...	cbcb	cbcb	58	64	7	-	3.0	4.8
9	Ilkley	roc	bccbc	56	67	1	Tr.	2.8	6.6
10	Berwick-on-T.	c	c	55	65	-	-	2.3	1.7
11	Dunbar ...	bc	c	56	66	Tr.	-	5.7	2.6
12	Douglas ...	cb	cb	52	61	5	-	4.4	1.4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Friday, 24th JULY, 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ϒ Thunder. ⚡ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 24th July, 1931.
1. S.E. England	Wind south or southwest, light or moderate; cloudy, perhaps occasional rain later; moderate temperature or rather warm.
2. E. England	
3. E. Midlands	Wind south or southwest, moderate; cloudy; occasional rain; moderate temperature.
4. W. Midlands	
5. S.W. England	Wind southwest, moderate or fresh, veering; cloudy; some rain or showers; perhaps local thunder later; moderate to rather low temperature.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	As 2 - 4.
10. N.E. England	
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	As 5 - 8.
13. A. W. Scotld. B. N.W. Scotland	Wind southerly, moderate or fresh, veering; cloudy; some rain or showers; moderate or rather low temperature.
14. Mid-Scotland	Wind southerly, moderate; cloudy; some rain; moderate temperature.
15. N.E. Scotland	
16. Orkneys and Shetlands.	
17. N.W. Ireland	Wind veering west or northwest, moderate or fresh; cloudy; some rain or showers; some brighter intervals; perhaps local thunder; moderate or rather low temperature.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

GENERAL INFERENCE.

A depression south of Iceland is filling up while a secondary trough off Western Ireland is moving east. Some rain is probable in most districts, except perhaps in the Southeast. Brighter intervals are probable later in the West.

FURTHER OUTLOOK.

Rather unsettled; perhaps local thunder.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

Morning of Friday, 24th July, 1931.

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

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

○ Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

FRIDAY 24TH JULY 1931.

No. 25446

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

Dist.	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)	°F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1013.5	-10	SSW	1	b	55	95	5	-	2	-	0	1	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1013.6	-14	-	0	bc	55	95	8	-	-	6	0	4-6	-
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1013.3	-12	ESE	1	b	57	85	7	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1013.3	-4	SW'S	2	bc	61	85	7	-	1	1	0	2-3	-
	Cranwell ...	240	1012.0	-10	-	0	bc	57	95	6	5	-	8	4-6	4-6	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1013.0	-8	SW'S	3	bc	59	95	8	4	4	8	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1013.7	-2	-	0	dd	57	95	6	5	-	-	10	10	2500
	Scilly(St.Mary's)	163	1012.6	-4	SW	2	bc	55	95	7	2	-	-	2-3	2-3	4000
	Guernsey ...	175	1014.5	-8	-	0	bc	56	85	8	8	-	-	4-6	4-6	2500
6	Pembroke ...	142	1011.2	-4	SSW	2	bc	57	95	8	3	5	1	4-6	4-6	1500
7	Holyhead ...	26	1010.4	-10	S'W	3	c	56	95	8	5	-	8	7-8	7-8	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1012.1	0	S'E	2	bc	60	95	7	4	-	-	2-3	2-3	4000
	Tynemouth ...	67	1010.8	-2	SW	2	c	57	85	7	6	-	-	7-8	7-8	1500
11	Inchkeith ...	190	1009.2	0	SW	3	ir	57	85	8	6	-	-	10	10	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1002.3	+6	S	3	id.	55	95	7	6	-	-	9+	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1005.3	+10	SW	3	ir.	54	95	8	8	2	8	4-6	7-8	1500
16	Lerwick ...	54	1004.9	+8	S	2	c	52	95	7	5	-	-	9	9	1500
17	Blacksod Point	18	1005.2	-12	S	5	c	56	95	7	8	-	-	9	9	220
18	Malin Head ...	52	1006.7	-8	S	3	c/d	55	95	7	6	1	-	4-6	10	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1008.5	-14	S	3	c	56	95	5	3	-	-	9+	9+	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Dist.	Stations	Barom. at M.S.L. mb. (15)	Change in 2 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1011.9	0	SW	2	c	60	75	5	7	9	4	2-3	7-8	4000	0	*
	Croydon ...	1012.0	+2	-	0	c	60	85	6	7	7	9	4-6	7-8	4000	0	*
	S. Farnborough	1011.4	-2	SW	1	c	58	95	6	5	3	-	1	9+	4000	0	*
	Winchester ...	1011.5	-2	SSE	2	c	57	95	7	5	7	-	7-8	9+	1500	0	*
	Boscombe Down	1011.5	-2	SSW	3	c	58	95	6	5	7	2	2-3	9	450	0	*
	Calshot,(S'thmtn)	1012.8	0	SSW	1	c	60	95	6	5	7	-	4-6	7-8	4000	0	0
	Dungeness ...	*	*	SW	2	bc	*	*	7	7	B7	*	2-3	4-6	4000	*	0
	Lympne ...	1011.0	-6	-	0	c	65	75	7	7	9	6	1	9	7200	0	*
2	Shoeburyness	1011.5	-4	W'S	1	c	63	85	6	-	3	6	0	7-8	-	0	*
	Felixstowe ...	1011.4	-8	-	0	c	64	85	6	-	1	2	0	7-8	-	1	0
	Gorleston ...	1011.1	-6	S'W	1	c	62	85	6	-	9	8	0	7-8	-	0	1
	Cranwell ...	1009.7	-8	-	0	c	59	95	6	5	7	-	4-6	9+	4000	0	*
3	Cardington ...	1010.8	-2	SW	3	c	58	85	7	5	9	1	4-6	9+	5700	*	*
	Birmingham ...	1010.1	-4	SSW	3	c	57	95	7	5	-	-	10	10	800	1	*
	Upper Heyford	1011.2	-4	SSE	2	c	57	95	7	5	3	9	4-6	9	800	0	*
	Leafield ...	1010.7	-6	S'W	3	c	56	95	7	5	-	8	9	9+	450	0	*
4	Ross-on-Wye ...	1010.1	-8	S'W	3	c	58	95	7	5	-	-	10	10	1500	0	*
5	Portland Bill....	1011.1	-4	SSW	3	c	59	95	7	8	7	8	4-6	7-8	2500	0	3
	Plymouth ...	1010.5	-6	SW	1	id.	57	95	7	5	-	-	10	10	450	1	1
	Falmouth ...	1011.3	-4	SW	1	bc	55	95	6	5	4	-	4-6	4-6	4000	1	0
	Scilly(St.Mary's)	1010.3	-6	SW'W	3	c	58	95	7	2	7	6	2-3	7-8	4000	1	2
	Guernsey ...	1012.4	-4	WSW	2	c	61	75	8	8	-	-	7-8	7-8	2500	0	1
6	Pembroke ...	1008.3	-12	SW	2	dpr	57	95	8	3	6	-	4-6	7-8	1500	1	1
7	Holyhead ...	1008.6	-6	S'W	3	c	57	95	8	2	8	9	1	7-8	2500	1	1
	Chester (Sealand)	1009.0	-8	SW	2	id.	58	95	8	5	-	-	10	10	450	1	*
8	L'pool (Bidston)	1008.6	-6	SSW	2	c	58	95	8	5	-	-	9+	9+	2500	1	*
9	Harrogate ...	1009.1	-10	-	0	dpr	57	95	8	-	-	-	10	10	450	1	*
10	Spurn Head ...	1009.4	-6	S'W	2	c	59	95	6	4	3	-	4-6	9	4000	0	1
	Tynemouth ...	1009.6	-6	SW	2	c	56	85	6	6	-	-	10	10	1500	0	1
11	Inchkeith ...	1008.4	-4	SSW	1	c	56	85	7	5	2	-	4-6	10	4000	0	1
	Leuchars ...	1008.2	-4	SSW	1	c	57	85	7	5	7	8	1	9	2500	1	*
12	Renfrew ...	1007.5	-6	E	1	dr	55	95	7	5	2	-	9+	10	1500	1	*
	Eskdalemuir ...	1008.4	-4	-	0	c	54	85	8	5	7	-	2-3	9+	1500	1	*
13A	Tiree	1004.3	-4	SSE	4	id.	54	95	7	6	2	-	4-6	10	1500	1	2
13B	Stornoway ...	1002.8	-2	SSW	3	id.	55	95	7	6	6	-	7-8	10	2500	1	2
15	Dalwhinnie ...	1007.2	-2	SSE	1	c	54	85	8	3	1	-	4-6	9	800	0	*
	Aberdeen ...	1007.9	+2	SSW	2	ir.	56	95	7	6	2	-	1	9+	1500	1	1
	Wick	1005.7	+4	SSW	2	c	54	95	8	5	7	-	7-8	10	1500	0	*
16	Lerwick ...	1006.6	+10	S	1	c	53	95	7	5	7	-	4-6	9	1500	1	*
17	Blacksod Point	1001.7	-16	S	5	c	57	85	7	6	-	-	10	10	x	1	4
18	Malin Head ...	1004.2	-12	S	3	c	55	95	7	6	7	-	7-8	9+	2500	0	*
	Aldergrove ...	1006.1	-10	S'E	1	c	56	85	7	5	7	-	4-6	10	2500	1	*
	Donaghadee ...	1006.4	-12	SW	2	c	55	95	7	5	7	-	4-6	7-8	2500	0	1
19	Birr Castle ...	1005.1	-12	S	1	dpr	56	85	8	5	1	-	7-8	9	2500	1	*
20	Valentia Obsy.†	1002.1	-28	SSE	5	ir.	56	95	8	6	2	-	7-8	10	1500	1	3
	Roches Point...	1006.2	-14	N	3	c	56	95	8	3	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

Dist.	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 Hrs. (36)
1	London (Kew)...	75	54	43	-	-	10.6
	Croydon ...	74	53	51	-	Tr	10.9
	S. Farnborough	75	50	41	-	-	10.8
	Winchester ...	71	51	47	-	-	10.0
	Boscombe Down	69	53	50	-	-	*
	Calshot,(S'thmtn)	70	54	49	-	-	11.8
	Dungeness ...	73	52	*	-	-	*
	Lympne ...	73	55	48	-	-	13.6
2	Shoeburyness	78	49	45	-	Tr	12.1
	Felixstowe ...	71	58	48	-	-	12.8
	Gorleston ...	72	59	55	-	-	11.7
	Cranwell ...	68	55	52	Tr	-	1.6
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	64	56	56	Tr	0.4	0.3
	Upper Heyford	71	53	50	-	-	*
	Leafield ...	70	52	47	-	-	3.7
4	Ross-on-Wye ...	65	57	57	Tr	-	0.7
5	Portland Bill....	63	58	*	-	-	*
	Plymouth ...	62	57	55	-	0.1	4.9
	Falmouth ...	61	54	*	-	0.2	0.0
	Scilly(St.Mary's)	60	54	*	1	2	0.0
	Guernsey ...	68	55	50	-	-	1.4
6	Pembroke ...	60	56	*	Tr	0.3	0.5
7	Holyhead ...	62	55	52	-	-	0.7
	Chester (Sealand)	67	57	56	Tr	0.3	0.0
8	L'pool (Bidston)	66	57	55	-	-	0.9
9	Harrogate ...	66	57	55	0.2	3	1.4
10	Spurn Head ...	67	58	*	Tr	-	0.2
	Tynemouth ...	66	55	51	-	-	*
11	Inchkeith ...	62	54	51	-	Tr	5.9
	Leuchars ...	65	54	52	Tr	Tr	4.3
12	Renfrew ...	62	52	48	Tr	Tr	3.9
	Eskdalemuir ...	61	51	50	-	-	3.6
13A	Tiree	59	54	52	1	5	4.4
13B	Stornoway ...	59	53	*	2	1	1.8
15	Dalwhinnie ...	?	51	47	1	0.4	3.4
	Aberdeen ...	66	54	53	-	2	3.9
	Wick	63	53	*	0.2	0.6	*
16	Lerwick ...	60	52	*	6	0.4	4.1
17	Blacksod Point	60	55	*	6	6	*
18	Malin Head ...	60	54	*	1	1	2.4
	Aldergrove ...	64	53	49	Tr	Tr	5.1
	Donaghadee ...	68	53	*	-	-	*
19	Birr Castle ...	63	53	51	0.6	Tr	2.0
20	Valentia Obsy.†	63	54	53	Tr	3	5.7
	Roches Point...	62	55	*	-	2	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	bcy	bcy	cbcw	75	54	43	-	-	10.6	*	*	7
CROYDON	217	bcdy	cbcy	bcwc	74	53	51	-	Tr	10.9	*	*	6
GREENWICH (Royal Observatory) ...	149	cby	bccby	cbwcy	80	52	40	-	Tr	11-0	48	50	*
CITY (Bunhill Row)	—				*	*	*	*	*	10.7	*	*	*
WESTMINSTER (St. James' Park) ...	27				75	56	52	-	-	11.7	45	63	*
REGENTS PK. (Botanic Gardens) ...	168				*	*	*	*	*	10.9	*	*	*
CAMDEN SQUARE	110	c	cbc		78	57	53	-	-	*	*	66	*
KENSINGTON	80	bc	bc		76	55	47	-	-	11.3	At 18h.	68	*
HAMPSTEAD OBSERVATORY	450	bcb	bc		74	53	43	-	Tr.	8.9	81	78	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
Defective		Record	

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.1	7h. 24th	<0.1	10-18h. 23rd

FOREIGN OBSERVATIONS.

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

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1013.9	S	2	b	82
BRUSSELS	1015.1	S	1	b	77
BERLIN	1020.3	SSE	1	b	77
ZÜRICH	1018.6	E	1	bc	72
ROME	1020.6	SSW	3	b	75

7h. G.M.T. 24th July

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1013.3	SSW	2	c	68
1012.0	S'E	4	b	70
1019.6	SE'S	3	b	68
1018.3	E	1	c	59
1019.5	NNE	1	c	70

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
84	59	-	-
79	61	-	-
79		-	
82	55	-	-
88	54	-	-

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, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

SATURDAY, 25TH JULY 1931.

No. 25447

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

Division	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)	1008.8	-20	SSW	4	c	73	55	8	1	-	9	1	7-8	4000
	Croydon	1009.2	-12	SW's	4	c	74	55	8	1	-	9	1	7-8	5700
	S. Farnborough	1009.0	-10	SSW	4	c	72	45	8	5	5	2	4-6	7-8	2500
	Winchester	1009.1	-8	SW	4	c	68	55	8	1	3	1	2-3	9	5700
	Boscombe Down	1009.0	-10	SSW	4	c	68	65	8	1	3	-	2-3	7-8	4000
	Calshot, S'thratn	1011-1	-6	SSW	4	c	68	65	8	1	5	8	1	7-8	4000
	Dungeness	*	*	SW	3	c	*	*	7	-	7	*	0	7-8	-
	Lympne	1009.4	-4	SE	3	c	73	55	7	4	3	-	2-3	7-8	5700
2	Shoeburyness	1008.4	-10	WSW	2	bc	77	55	6	1	4	9	2-3	4-6	5700
	Felixstowe	1009.0	-14	SSE	2	c	72	55	7	5	8	-	4-6	7-8	5700
	Gorleston	1008.5	-12	SE	2	c	70	75	6	4	6	8	2-3	9	4000
	Cranwell	1007.6	-10	SWW	4	c	69	65	8	2	-	-	9	9	4000
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1007.5	-10	SSW	3	c	67	65	8	2	3	-	7-8	9	2500
	Upper Heyford	1008.0	-14	SW	3	c	70	55	8	8	3	-	4-6	7-8	4000
	Leafield	1007.8	-14	S'W	4	c	68	65	9	7	7	-	4-6	7-8	5700
4	Ross-on-Wye	1007.5	-12	S	3	ir.	64	75	8	9	-	-	10	10	2500
5	Portland Bill	1009.7	-10	SW	4	c	62	95	6	4	7	8	4-6	7-8	2500
	Plymouth	1009.0	-12	SSW	3	c	61	95	8	8	-	8	4-6	9	1500
	Falmouth	1009.1	-2	SW's	4	ir.	59	95	8	8	2	-	7-8	10	4000
	Scilly (St. Mary's)	1006.5	-20	SSW	5	c/pr	61	85	7	8	2	1	4-6	9	4000
	Guernsey	1011.3	-4	SSW	3	bc	67	75	8	8	6	-	4-6	4-6	4000
6	Pembroke	1006.0	-16	SSW	3	c/pr	59	85	8	8	6	-	4-6	7-8	2500
7	Holyhead	1006.3	-16	S'E	5	c/pr	60	85	8	9	7	8	7-8	10	1500
	Chester (Sealand)	1006.3	-16	SW's	2	c	67	55	8	5	-	4	4-6	9	2500
8	L'pool (Bidston)	1006.1	-14	SW	3	c	65	65	9	5	2	-	7-8	9+	4000
9	Harrogate	1006.4	-10	S'E	3	c	64	85	5	5	-	-	7-8	7-8	2500
10	Spurn Head	1006.9	-2	SW's	2	bc	74	65	7	-	1	6	0	4-6	-
	Tynemouth	1006.3	-12	SSE	2	0	67	95	5	6	-	-	10	10	1500
11	Inchkeith	1006.0	-14	S	1	c	63	75	8	8	3	-	4-6	7-8	2500
12	Leuchars	1006.4	-10	S	2	c	62	65	8	7	7	-	2-3	9+	2500
	Renfrew	1005.3	-10	S	3	c	60	75	7	1	7	-	1	10	4000
	Eskdalemuir	1005.9	-12	SW	4	c	57	75	8	6	7	-	2-3	9+	1500
13a	Tiree	1003.0	-2	SE	3	c	66	96	7	5	2	-	4-6	10	1500
13a	Stornoway	1002.7	0	SSW	4	c	58	85	7	9	7	-	7-8	9+	1500
16	Dalwhinnie	1005.5	-8	SSE	2	c	56	75	7	3	1	-	9	10	1500
	Aberdeen	1006.2	-8	SSE	2	c	60	75	8	8	3	-	1	9	2500
	Wick	1005.1	-6	S	2	c	56	95	8	8	7	-	4-6	9+	1500
16	Lerwick	1006.4	+8	S'W	1	c	56	85	7	5	3	-	4-6	7-8	800
17	Blacksod Point	996.9	-22	ESE	4	DD	58	95	7	6	-	-	10	10	<150
18	Malin Head	1001.8	-12	SSE	2	c/r	58	95	7	6	1	-	7-8	10	1500
	Aldergrove	1003.0	-14	SSE	4	c/p	59	75	8	5	7	-	7-8	10	2500
	Donaghadee	1004.0	-8	SSW	2	c	60	85	7	5	-	4	9	9	1600
19	Birr Castle	1000.1	-26	SW	3	c	59	85	8	5	2	-	7-8	9+	2500
20	Valentia Obsy.	997.8	-18	SW	4	c	63	85	8	5	-	-	9	9	1500
	Roches Point	1000.7	-20	SW	4	rr	56	95	6	6	-	-	10	10	450

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

Division	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1007.4	-12	SW	4	bc	70	65	8	1	6	1	2-3	4-6	4000	0	*
	Croydon	1007.8	-10	SW	4	bc	68	65	8	1	-	2	1	4-6	4000	0	*
	S. Farnborough	1007.3	-14	SSW	2	c	64	75	8	5	9	4	1	7-8	2500	0	*
	Winchester	1006.9	-14	SW'S	4	c	61	75	8	5	3	5	7-8	9+	4000	0	*
	Boscombe Down	1006.7	-18	SSW	4	c	62	75	8	1	7	-	Tr.	7-8	1500	0	*
	Calshot, S'thratn	1009.0	-14	SSW	3	c	63	85	8	5	7	8	2-3	7-8	2500	0	2
	Dungeness	*	*	SW	2	c	*	*	7	5	4	*	4-6	7-8	2500	*	0
	Lympne	1008.5	-10	SW'S	3	c	68	65	8	-	5	6	0	9	-	0	*
2	Shoeburyness	1008.1	-6	SSW	3	bc	70	55	8	-	3	6	0	4-6	-	0	*
	Felixstowe	1007.3	-12	SSW	4	c	69	75	7	1	-	6	2-3	7-8	5700	0	2
	Gorleston	1006.7	-10	SSE	4	bc	66	85	6	5	-	1	2-3	4-6	2500	0	3
	Cranwell	1004.8	-16	SW	3	c	69	65	8	7	3	6	4-6	9	4000	0	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1005.0	-16	SSW	3	c	64	75	8	2	7	-	1	9+	2500	1	*
	Upper Heyford	1006.2	-8	SSW	4	c	64	65	8	7	7	-	4-6	7-8	4000	0	*
	Leafield	1005.7	-10	S	4	c	61	75	9	1	7	-	Tr.	9	4000	0	*
4	Ross-on-Wye	1005.0	-14	S	3	o	63	75	8	6	7	-	1	9+	2500	0	*
5	Portland Bill	1006.9	-16	SSW	4	c	60	85	8	8	7	8	4-6	7-8	2500	0	3
	Plymouth	1005.6	-22	S	4	o	59	95	7	6	-	-	10	10	1500	0	12
	Falmouth	1004.5	-14	SSW	6	ir	57	95	6	6	2	-	7-8	10	2500	1	3
	Scilly (St. Mary's)	1001.1	-30	SSW	5	ir	57	95	6	5	-	-	10	10	1500	1	3
	Guernsey	1007.6	-18	SSW	2	bc	66	65	9	5	6	-	4-6	4-6	2500	0	1
6	Pembroke	1002.2	-18	ESE	4	rr	57	95	6	5	-	-	10	10	1500	2	3
7	Holyhead	1003.5	-22	S'E	4	c	59	85	7	5	7	-	4-6	9+	4000	0	1
	Chester (Sealand)	1003.6	-14	SW	1	c/r	64	65	8	5	7	1	1	9+	4000	1	*
8	L'pool (Bidston)	1003.6	-12	W	1	r.r.	61	75	8	5	1	-	7-8	10	2500	1	*
9	Harrogate	1004.4	-10	S'E	1	c	64	75	6	6	8	-	7-8	9+	2500	1	*
10	Spurn Head	1004.6	-8	SSW	2	c	67	75	7	1	4	9	2-3	7-8	4000	0	1
	Tynemouth	1004.0	-10	SW	2	o	64	65	6	6	-	-	10	10	1500	0	1
11	Inchkeith	1004.0	-10	ENE	1	c	55	95	8	8	4	-	7-8	9+	1500	0	1
12	Renfrew	1004.0	-18	ESE	2	c	57	95	6	5	9	-	7-8	9+	1500	1	*
	Eskdalemuir	1004.0	-10	SSE	2	ir	57	85	7	6	-	-	10	10	2500	1	*
13a	Tiree	1004.1	-10	SSW	2	c	56	75	8	5	2	-	4-6	10	4000	1	d
13a	Stornoway	1000.8	-10	SE'E	4	id.	56	95	7	6	2	-	4-6	10	1500	1	2
16	Dalwhinnie	1001.7	-8	-	0	pr	55	95	7	3	2	-	4-6	10	2500	1	2
	Aberdeen	1003.5	-14	SSE	2	c	56	75	8	6	1	-	4-6	9	2500	0	*
	Wick	1004.3	-12	SE	2	c	57	85	6	6	7	-	7-8	9	1500	1	1
16	Lerwick	1003.2	-12	SE	2	c	55	95	8	5	2	-	7-8	10	1500	0	2
17	Blacksod Point	1006.8	-6	S	1	c	56	85	7	5	2	-	4-6	10	800	0	*
18	Malin Head	995.2	-6	S	3	c	60	85	8	3	-	-	9	9	800	1	2
	Aldergrove	998.2	-20	SSE	4	c/r	57	95	7	6	1	-	9	10	2500	1	2
	Donaghadee	1000.0	-20	SE'E	4	id.	57	85	8	6	2	-	4-6	9+	1500	1	*
19	Birr Castle	1001.1	-14	S'W	2	ir.	55	95	7	6	-	-	9	9	800	1	1
20	Valentia Obsy.	995.1	-20	S	3	ir	59	95	8	6	2	-	7-8	10	1500	1	*
	Roches Point	996.8	-20	SW	3	c	57	95	7	3	-	-	7-8	7-8	1600	1	4

PAST 24 HOURS.

Division	Stations. (For heights see p. 4.)	Weather. 7h.–18h. 24th (37)	Weather. 13h.–18h. 24th (38)	Weather. 18h. 24th to 1h. 25th (39)	Weather. 1h.–7h. 25th (40)
1	London (Kew)	c b e y	b e y	b c	b e e r
	Croydon	c 3 o b c	b e y	c b c 3 o	b e e r r
	S. Farnborough	b e y	y b e	b e e r.	c o r R
	Winchester	c b e c y	c y b e	c b e c	c o r r m.
	Boscombe Down	c b e c	c	c	c r r m.
	Calshot, S'thratn	c b e	b	c r.	r. r.
	Dungeness	b c	b e	*	r
	Lympne	c b c	b e c	b c c	c r. r. c
2	Shoeburyness	b c 3 o y	b e 3 o y	b c	c i r.
	Felixstowe	⊕ c b e y	c y b c	b c	c r.
	Gorleston	c b e 3 o	c 3 o	b c 3 o l	b e c q
	Cranwell	b e c	c	c	c r. r.
3	Cardington	*	*	c	c o r c
	Birmingham	o b e c	c p. r	c o	o r r.
	Upper Heyford	c b c	b c y e	c	c r. m.
	Leafield	c b c	b e c	c b c c	c o r r.
4	Ross-on-Wye	o c b e c	c p. c	r r.	r. r. d
5	Portland Bill	c	c	C R R	o R R c
	Plymouth	c i d.	c i r. r	o r r R m	r
	Falmouth	b e e r. q	c i r q	O R q c	c R q m.
	Scilly (St. Mary's)	c p.	c p o i r	o i r m c	c i r
	Guernsey	b e o d.	b e c b e	c o r R	o R r
6	Pembroke	c p.	c p r r	o r r	c i r.
7	Holyhead	b e c, p r	p r	r r.	i r. o
	Chester (Sealand)	c d m.	c i r	c r.	i r. c m.
8	L'pool (Bidston)	r c b e c	c r c i r	c o r r	r r. o c
9	Harrogate	f r d c b e	b e c	c i r.	c o m i R
10	Spurn Head	c b c	b e c	b c	c p r
	Tynemouth	o i d. m	o m.	o i r.	o
11	Inchkeith	c	c	c i r	c r r o
12	Renfrew	c	c, p m.	c m. c	e r. r.
	Eskdalemuir	c r. c	c, p. r c	r r o	o r. r. o
13a	Tiree	c	c i r.	c i r.	c r. r.
13a	Stornoway	o d. d.	o i d.	o d.	o r. r. o
16	Dalwhinnie	c i r.	o, c p r	c i r	c
	Aberdeen	c	c		i r c
	Wick	c r. c	c 3 o	c o d. f	o m f f r
16	Lerwick	c i r.	c	c	c m. m c
17	Blacksod Point	c	c	c o i r m.	o f f e
18	Malin Head	d d	p r c	c	i d
	Aldergrove	c i r.	c r r	c r. m.	c m. r.
	Donaghadee	c p r	c r. r.	c i r	i r. i d c
19	Birr Castle	c	c i r.	c i r.	r. r. c
20	Valentia Obsy.	c o i r c	c i r	c r. c	c o i d
	Roches Point	c r r r. c	c p. i d i r.	c r R i d.	o i d. c p r

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220-1100 yds.
F, thick fog, „ less than 220 yds.
f$_s$, fog over sea (coast station).
f$_g$, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
k$_s$, 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).
⊕, Solar halo. ☾, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

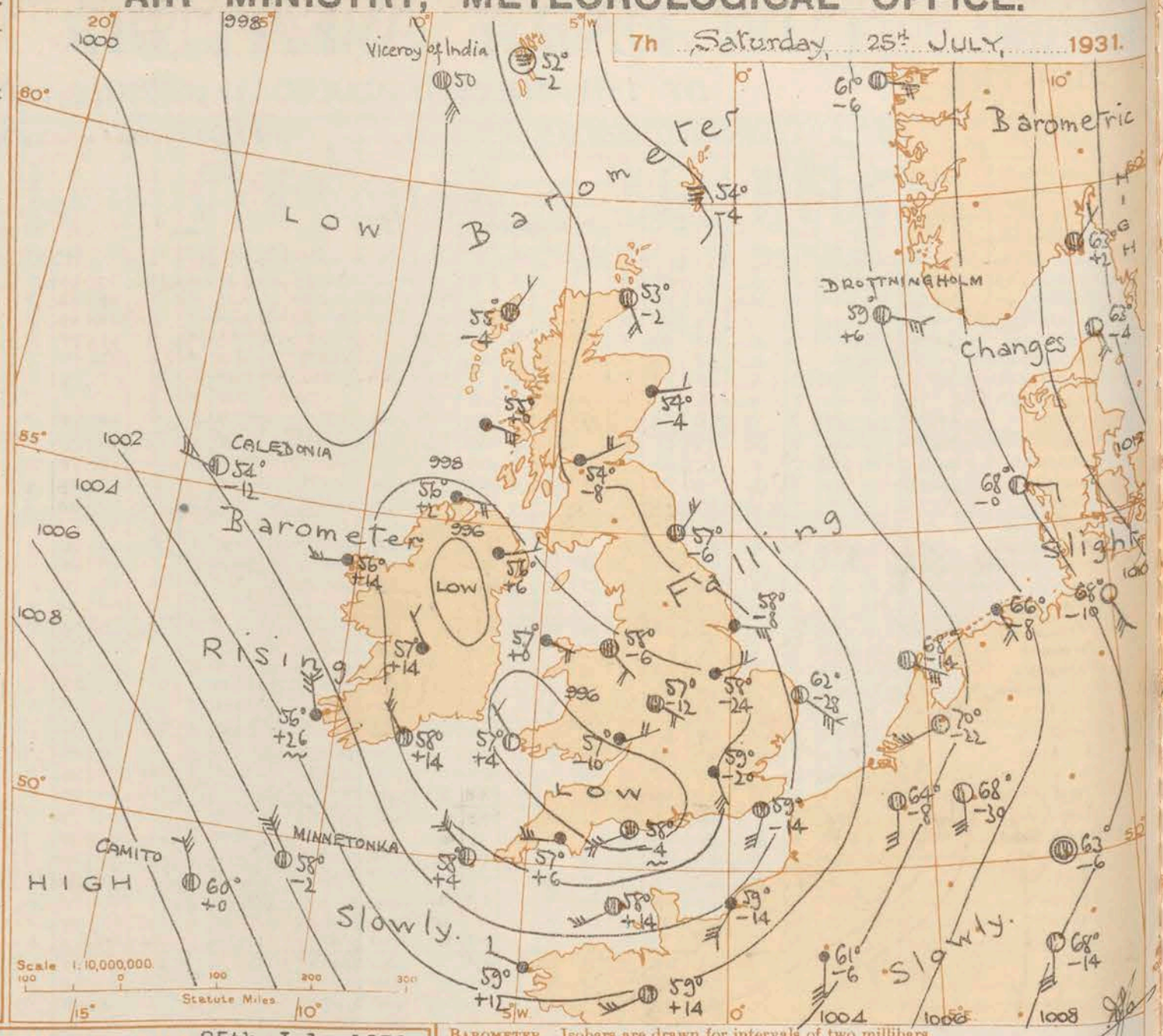
COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

REPORTS from HEALTH RESORTS for FRIDAY 24TH JULY 1931

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 23rd to 9h. 24th.	Temperature. Max. 9h.—17h. 24th.	Rainfall. Night. 17h. 23rd to 9h. 24th.	Rainfall. Day. 9h.—17h. 24th.	Sunshine. Sunrise to 17h. 24th.	Sunshine. Sunrise to Sunset, 23rd.
1	Tunbridge W.	bcb	b	51	76	–	–	10.0	12·9
	Bournemouth	c	c	55	66	–	–	5·8	11·3
	Ventnor ...	bcb	bbc	56	66	–	–	8·9	12·6
	Southsea ...	b	bbc	55	71	–	–	8·5	11·3
	Bognor Regis	bcb	bbc	55	69	–	–	9·6	12·9
	Littlehampton	bc	bc	53	67	–	–	9·4	13·3
	Worthing ...	b	b	54	69	–	–	10·4	13·5
	Brighton ...	bc	bcb	54	69	–	–	9·0	13·6
	Eastbourne†	bc	bcb	56	72	–	–	9·1	13·9
	Hastings† ...	bcbc	bcbc	57	74	–	–	8·4	13·9
	Folkestone ...	bc	bcbbc	55	75	–	–	9·5	13·4
	Dover... ...	ycbc	bc	54	71	–	–	9·4	13·1
	Deal	bcbcb	bbcb	54	74	–	–	7·2	13·0
	Ramsgate ...	cbc	bc	61	73	–	–	8·0	13·6
	Margate ...	bcmc	bc	61	77	–	–	8·8	13·5
2	Southend ...	bbcb	b	58	78	–	–	9·3	12·3
	Maldon ...	b	cb	52	79	–	–	7·3	11·8
	Clacton-on-Sea	bc3	bc3	60	73	–	–	8·0	12·9
	Dovercourt ...								
	Lowestoft ...	b	b	58	71	–	–	5·3	13·1
	Skegness ...	ocb	b	58	74	–	–	7·5	6·4
	Mablethorpe	cbc	bbc	57	75	–	–	7·5	2·1
	Cleethorpes...	cb	bc	57	74	–	–	6·3	0·7
3	Leamington S.	cbc	bcc	55	71	–	–	3·5	1·6
4	Cheltenham†	Woc	c	55	70	–	–	1·6	0·1
5	Bath	cp.	cbcc	57	69	Trace	Trace	2·1	5·1
	Weymouth ...	cbbc	cbc	58	67	–	–	7·1	12·0
	Jersey ...	cbc	bcc	59	70	–	–	6·3	13·3
	Torquay ...	rdpcs	cpc	58	66	2	Trace	2·0	8·3
	Penzance ...	cbc	cir	55	63	2	0·5	2·3	0·0
	St. Ives ...	bcor	bcorp	53	63	2	0·3	4·9	0·0
	Bude	oc	cog	56	64	5	–	2·4	0·0
	Ilfracombe ...	cbc	bcc	56	65	4	–	4·0	0·0
6	Aberystwyth	cpmrc	cprc	55	63	1	1·	1.4	0.0
7	Llandudno ...	c	c	53	66	–	–	2.7	3.1
	Colwyn Bay...	bcbc	bcc	56	66	–	–	2·9	2·8
	Rhyl								
8	Wallasey ...	cbc	bccp	68	67	Trace	0·3	1·9	0·5
	Southport‖ ...	ocbc	copo	56	67	–	0·4	1.4	2·6
	Blackpool ...	cbc	bcor	55	68	–	0·1	2·6	2·4
	Morecambe ...	c	bbcc	55	67	Trace	Trace	2·0	3·0
9	Ilkley... ...	d	bc	55	69	6	1	2·9	3.1
10	Berwick-on-T.	oc	o	53	59	–	–	1·0	2·3
11	Dunbar ...	bc	cmr.	55	64	–	0·3	0·9	6·0
12	Douglas ...	cb	cidc	54	61	–	0·3	1·8	4·6

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ⊤ Thunder. ⊻ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 25th July, 1931.
1. S.E. England 2. E. England	Wind becoming westerly, moderate; cloudy, occasional rain, or showers: perhaps local thunder; fairer later; somewhat cooler.
3. E. Midlands 4. W. Midlands	Wind easterly or variable becoming northwesterly, moderate; dull or cloudy; some rain; perhaps thunder; fairer later; cooler.
5. S.W. England 6. South Wales 7. North Wales	Wind northwesterly, moderate or fresh; cloudy; brighter intervals; occasional rain, or showers; rather low temperature.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind easterly or variable, light or moderate; dull or cloudy; some rain, perhaps thunder; improving later; moderate or rather low temperature.
13. A. W Scotld. B. N.W Scotland 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind easterly or variable, light or moderate; cloudy or dull; rainy; moderate temperature; local mist or fog on East Coast.
17. N.W Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 - 7.

GENERAL INFERENCE.

A depression south of Iceland is filling up and a complex depression over the British Isles is moving slowly eastwards. Weather will be unsettled generally, though fairer conditions are likely to spread from the West later. There is a chance of local thunder.

FURTHER OUTLOOK.

Rather unsettled.

Forecasts issued at 0925 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway W.C.2

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

Morning of
Saturday
25th July.
1931.

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

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

SATURDAY 25TH JULY 1931.

No. 25447

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

Dist.	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)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1003.2	-34	S'E	1	C	59	85	6	5	-	-	7·8	7·8	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1002.5	-42	SSE	4	C	62	85	7	5	-	-	10	10	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1003.5	-34	SE'E	3	C	62	75	6	5	2	-	7·8	9+	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1004.3	-16	SW	2	bc	63	86	7	-	7	-	0	4.6	-
	Cranwell ...	240	1002.9	-12	S	2	C	56	95	7	5	-	-	10	10	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	999.6	-36	SSE	4	RR	57	85	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	998.1	-4	W'S	2	C	56	95	7	8	-	-	9	9	4000
	Scilly(St.Mary's)	163	998.4	-8	WNW	4	C	56	95	7	5	-	-	7·8	7·8	4000
	Guernsey ...	175	1001.0	-42	S	5	RR	59	95	6	6	-	-	10	10	1500
6	Pembroke ...	142	999.1	-16	SSE	3	C/R	57	95	8	8	-	-	10	10	1500
7	Holyhead ...	26	999.6	-20	SSE	5	R.R.	57	95	6	5	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1002.6	-4	S	2	C	58	95	7	8	7	-	2·3	7·8	4000
	Tynemouth ...	67	1001.9	-10	S	1	O	57	95	7	5	-	-	10	10	1500
11	Inchkeith ...	190	1002.3	-6	SE	1	C	55	95	8	5	2	-	2·3	9+	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1000.5	-6	-	0	C	54	95	7	3	2	-	7·8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1002.1	-4	SSE	2	C	53	95	7	5	2	-	7·8	10	1500
16	Lerwick ...	54	1003.5	-20	SE	3	C/R	55	95	6	6	2	-	4·6	10	450
17	Blacksod Point	18	996.4	+4	-	0	C	57	95	6	5	-	-	10	10	4150
18	Malin Head ...	52	997.4	0	ESE	1	C	57	95	6	6	1	-	4·6	10	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	997.0	+6	SW	5	O	56	95	6	6	-	-	10	10	800
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Dist.	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-8 (29)	Sea. 0-9 (30)
1	London (Kew)...	997.4	-20	ESE	3	id.	60	95	6	7	-	-	10	10	800	1	*
	Croydon ...	998.3	-20	SSE	3	c	59	95	6	7	-	-	10	10	800	1	*
	S. Farnborough	996.9	-20	-	0	R	58	95	6	7	-	-	10	10	450	2	*
	Winchester ...	996.6	-14	SW	3	c	57	95	6	7	2	-	7·8	10	800	1	*
	Boscombe Down	996.7	-2	S'E	3	c	57	95	6	7	2	-	9+	10	220	1	*
	Calshot,(S'thmtn)	997.3	-6	S	3	c	59	85	*	10	-	-	10	10	800	1	2
	Dungeness ...	*	*	S	4	c	*	*	*	9	1	*	9	10	2500	*	2
	Lympne ...	999.1	-14	S'W	3	c	59	95	6	7	2	-	7·8	10	2500	1	*
2	Shoeburyness	998.8	-40	S	4	c	62	95	7	6	2	-	1	7·8	4000	0	*
	Felixstowe ...	999.4	-20	S'E	4	c	64	85	7	6	-	-	9+	9+	4000	0	2
	Gorleston ...	1000.0	-28	SE'S	4	c	62	95	7	6	2	-	4.6	7·8	2500	0	3
	Cranwell ...	998.0	-24	ENE	2	c	58	95	6	6	2	-	9+	10	1500	1	*
3	Cardington ...	998.2	-20	SE'S	2	c	58	95	6	6	7	8	7·8	9+	2500	*	*
	Birmingham ...	997.7	-12	ESE	2	c	57	95	6	5	-	-	10	10	450	1	*
	Upper Heyford	996.9	-30	ESE	2	c	58	95	6	6	2	-	4.6	9+	800	0	*
	Leafield ...	996.2	-26	ESE	3	c	56	95	6	6	-	-	10	10	1500	1	*
4	Ross-on-Wye ...	996.4	-10	E	2	c	57	95	7	4	-	-	10	10	800	1	*
5	Portland Bill....	995.8	-4	WSW	5	c	58	95	7	8	7	-	7·8	9	1500	1	4
	Plymouth ...	996.9	+6	W	3	c	57	95	7	6	-	-	9+	9+	450	2	2
	Falmouth ...	997.8	-2	W'S	3	c	57	95	7	6	7	-	4.6	7·8	2500	2	2
	Scilly(St.Mary's)	998.2	+4	NW'W	5	c/r	58	95	7	7	-	-	9	9	4000	1	3
	Guernsey ...	1000.0	+14	WSW	3	c/r	58	95	7	7	-	-	10	10	1500	2	3
6	Pembroke ...	995.6	+4	NW	1	bc	57	95	7	2	4	1	2·3	4.6	2500	1	1
7	Holyhead ...	997.8	0	SE'E	2	c	57	95	8	5	-	-	10	10	1500	1	1
	Chester (Sealand)	997.6	-6	SE	2	c	58	85	6	6	-	-	9	9+	1500	1	*
8	L'pool (Bidston)	997.4	-8	ESE	3	c	58	85	6	5	2	-	7·8	9+	1500	1	*
9	Harrogate ...	999.6	-6	-	0	R	54	95	4	6	-	-	10	10	4150	1	*
10	Spurn Head ...	998.6	-8	ESE	3	c/pr	58	95	6	8	3	-	2·3	10	4000	1	2
	Tynemouth ...	1000.3	-6	NE	2	c	57	95	5	6	-	-	10	10	1500	0	1
11	Inchkeith ...	1000.0	-10	NE	3	r	53	95	6	6	-	-	10	10	800	1	2
	Leuchars ...	1000.7	-6	NE	1	r.c.	55	95	6	6	4	-	2·3	10	1500	1	*
12	Renfrew ...	1000.3	-8	ENE	2	r	54	95	6	5	-	-	10	10	800	1	*
	Eskdalemuir ...	999.1	-8	ENE	2	r.c.	54	95	7	6	2	-	2·3	10	450	1	*
13A	Tiree	998.7	0	ESE	3	d.	55	95	7	6	2	-	4.6	10	1500	1	2
13B	Stornoway ...	999.3	-4	NE	1	c	55	95	7	6	7	-	7·8	9+	2500	1	0
15	Dalwhinnie ...	1000.8	-4	-	0	r	51	95	6	7	2	-	7·8	10	800	1	*
	Aberdeen ...	1001.2	-4	E	1	r	54	95	6	2	-	-	10	10	4150	1	1
	Wick	1000.6	-2	SSE	2	c	53	95	7	4	1	-	7·8	10	1500	0	2
16	Lerwick ...	1001.7	-4	SE	1	c	54	95	7	4	-	-	10	10	4150	1	*
17	Blacksod Point	999.2	+14	W	3	id	56	95	7	6	-	-	10	10	4150	1	3
18	Malin Head ...	997.1	+2	ESE	2	r	56	95	6	6	1	-	9	10	1500	1	0
	Aldergrove ...	997.9	+6	E	1	r	56	95	6	6	2	-	9	10	800	1	*
	Donaghadee ...	997.4	-6	WSW	1	c	55	95	7	5	2	-	4.6	7·8	1500	1	0
19	Birr Castle ...	999.9	+14	NNW	1	id	57	95	6	5	-	-	10	10	1500	1	*
20	Valentia Obsy.†	1001.0	+26	NW	5	pr	56	95	6	6	-	-	10	10	800	1	4
	Roches Point...	997.6	+14	NW	3	c	58	95	8	5	-	-	7·8	7·8	2500	1	3

PAST 24 HOURS.

Dist.	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 24hrs. Hrs. (36)
1	London (Kew)...	74	59	56	-	1	8.7
	Croydon ...	74	58	57	-	1	10.5
	S. Farnborough	74	56	51	-	1	9.6
	Winchester ...	69	56	55	-	1	8.2
	Boscombe Down	69	55	51	-	0.5	*
	Calshot,(S'thmtn)	69	58	56	-	0.5	8.5
	Dungeness ...	74	59	*	-	0.5	*
	Lympne ...	74	58	54	-	0.5	11.5
2	Shoeburyness	73	58	52	-	Tr.	11.1
	Felixstowe ...	73	62	54	-	Tr.	8.8
	Gorleston ...	73	61	56	-	-	7.3
	Cranwell ...	72	55	54	-	0.5	7.7
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	68	54	53	Tr.	1	3.1
	Upper Heyford	72	56	51	-	0.1	*
	Leafield ...	70	54	50	-	2	6.2
4	Ross-on-Wye ...	68	55	55	0.1	5	2.3
5	Portland Bill....	63	56	*	-	8	*
	Plymouth ...	63	56	53	0.2	20	1.1
	Falmouth ...	60	55	*	-	18	2.3
	Scilly(St.Mary's)	64	55	*	-	3	3.9
	Guernsey ...	68	57	56	Tr.	19	6.9
6	Pembroke ...	60	54	*	5	20	1.7
7	Holyhead ...	63	55	54	0.2	4	1.9
	Chester (Sealand)	70	55	53	0.3	0.5	1.2
8	L'pool (Bidston)	66	55	52	0.3	1	1.9
9	Harrogate ...	68	54	52	2	2	3.5
10	Spurn Head ...	76	57	*	-	2	6.5
	Tynemouth ...	66	55	52	0.1	0.2	*
11	Inchkeith ...	63	52	52	-	5	1.1
	Leuchars ...	63	54	53	-	0.3	0.1
12	Renfrew ...	62	52	48	0.3	3	0.0
	Eskdalemuir ...	62	51	50	0.1	2	0.5
13A	Tiree	57	53	52	1	6	0.0
13B	Stornoway ...	59	53	*	0.6	2	0.1
15	Dalwhinnie ...	57	49	45	Tr.	1	0.0
	Aberdeen ...	61	52	50	0.1	0.3	0.2
	Wick	57	51	*	0.1	0.1	*
16	Lerwick ...	60	53	*	-	3	3.0
17	Blacksod Point	61	55	*	3	1	*
18	Malin Head ...	58	56	*	3	2	0.0
	Aldergrove ...	61	53	53	1	1	0.4
	Donaghadee ...	61	53	*	1	5	*
19	Birr Castle ...	60	56	54	4	1	0.0
20	Valentia Obsy.†	63	56	55	9	7	0.2
	Roches Point...	59	53	*	19	7	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm. (Yesterday.)	Rainfall. Night. mm. (Yesterday.)	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	c b c y	b c y	b c c r	74	59	56	-	1	8.7	*	*	8
CROYDON	217	c 3 o b c	b c y	c b c c r	74	58	57	-	1	10.5	*	*	7 6
GREENWICH (Royal Observatory) ...	149	c b c y	b c y	b c w d	80	57	50	-	0.3	10.4	42	88	6
CITY (Bunhill Row)	—				*	*	*		*	10.1	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	75	60	59			10.4	43	83	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	9.1	*	*	*
CAMDEN SQUARE	110	c b	b c c	*	78	60	58	-	1	*	*	89	*
KENSINGTON	80	b c	b c	*	77	59	55	-	0.1	9.6	At 18h. 61	87	*
HAMPSTEAD OBSERVATORY	450	b c	b c	*	74	56	50	-	1	8.7		91	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
0.8	6h 25th	NIL	16h-21h 24th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.1	23h 24th	<0.1	17h-19h 24th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 24th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 25th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1009.1	SSE	2	c	75	1003.7	S	3	r	61
BRUSSELS	1009.6	S	3	c/pr	72	1002.3	S'W	4	c/p	72
BERLIN	1014.0	SE'S	2	c	81	1010.4	SE	4	c	72
ZÜRICH	1014.0	S	1	r c	70	1009.2	S	1	r c	64
ROME	1016.3	WSW	4	bc	77	1014.9	SE'S	1	c	66

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
82	61	-	6
82	63	Tr.	Tr.
84	63	-	-
84	59	-	-
86	54	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	„
2	Fog	550	„
3	Moderate fog	1,100	„
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	„
6	Moderate „	6½	„
7	Good „	12½	„
8	Very good „	31	„
9	Excellent „	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

SUNDAY, 26th JULY 1931.

No. 25448

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 25th July: Barom. at M.S.L. mb. (1)	Change in 3 hours. (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)...	996·6	- 8	SSW	3	c/pr	65	75	8	8	3	–	7-8	9	1500
	Croydon ...	997·4	-2	SWS	4	c/pr	66	75	8	8	3	–	7-8	9	2500
	S. Farnborough	996·3	-2	S'W	4	c/r	67	75	7	8	–	3	9	9+	1500
	Winchester ...	996·5	+6	WSW	3	c/pr	62	85	8	9	3	–	9	9+	1500
	Boscombe Down	996·3	+2	W	4	c/r	60	95	7	5	–	–	9+	9+	800
	Calshot, S'thmtn	997·2	+2	SW'S	5	c	65	75	8	8	3	3	4-6	9	1500
	Dungeness ...	*	*	SW'S	5	c	*	*	7	8	4	*	4-6	7-8	2500
	Lympne ...	999·0	+8	SW'S	5	c	63	75	8	7	–	–	9+	9+	800
2	Shoeburyness	997·9	-4	SSW	3	ir	61	95	7	6	2	–	4-6	7-8	1500
	Felixstowe ...	998·2	-4	S'E	4	c/r	63	85	8	9	7	8	4-6	9	1500
	Gorleston ...	998·1	-6	S	5	$r_o r_o$	61	95	6	6	–	–	10	10	1500
	Cranwell ...	995·8	-10	SE'E	3	$r_o r_o$	63	95	7	6	2	–	7-8	10	800
3	Cardington ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	996·8	-4	NNE	1	rr	59	95	5	6	–	–	10	10	800
	Upper Heyford	996·0	0	SSE	1	id_o	62	85	7	9	2	–	7-8	10	1500
	Leafield ...	995·6	-6	SSE	2	jp	62	85	9	8	–	–	9+	9+	2500
4	Ross-on-Wye ...	996·3	0	W	2	o/r	60	95	7	6	–	–	10	10	1500
5	Portland Bill...	997·6	+6	SW'N	5	pr	59	95	7	3	7	–	4-6	7-8	1500
	Plymouth ...	999·1	+18	WNW	4	c	63	85	8	8	–	–	9	9	2500
	Falmouth ...	1001·0	+16	NW'N	4	pr	61	95	8	3	8	–	4-6	7-8	4000
	Scilly (St. Mary's)	1002·0	+20	NW'N	6	c	60	85	7	4	–	–	9	9	4000
	Guernsey ...	1000·4	+10	WSW	5	c	62	85	7	8	6	–	4-6	7-8	2500
6	Pembroke ...	998·1	+8	WNW	3	c	60	95	8	1	6	–	4-6	7-8	2500
7	Holyhead ...	998·3	+2	NNW	2	c	62	85	8	4	3	1	2-3	7-8	2500
	Chester (Sealand)	996·8	-2	NW'N	2	c	63	75	6	5	–	–	10	10	2500
8	L'pool (Bidston)	996·8	-2	WNW	3	u	60	85	6	5	2	–	4-6	10	1500
9	Harrogate ...	997·4	-6	NW	2	$r_o r_o$	57	95	5	6	–	–	10	10	2500
10	Spurn Head ...	996·9	-4	E	1	ir_o	63	95	6	3	2	–	4-6	9+	2500
	Tynemouth ...	998·2	-10	N	1	$r_o r_o$	55	95	7	6	–	–	10	10	1500
11	Inchkeith ...	998·8	-6	ENE	3	rr	55	95	6	6	–	–	10	10	800
	Leuchars ...	999·6	-2	NE	1	rr	57	95	4	6	–	–	10	10	220
12	Renfrew ...	999·0	-2	E	2	$r_o r_o$	58	95	5	5	1	–	9+	10	1500
	Eskdalemuir ...	997·6	-4	S	2	c	64	65	8	5	7	–	7-8	9+	1500
13A	Tiree	998·5	0	NNE	2	c	58	95	7	5	1	–	4-6	9+	1500
13B	Stornoway ...	999·2	-2	SSE	1	pr_o	58	95	7	3	2	–	4-6	10	2500
15	Dalwhinnie ...	999·8	-10	N	1	rr	55	85	6	3	–	–	10	10	450
	Aberdeen ...	1000·2	-8	NE	3	$r_o r_o$	56	95	5	6	–	–	10	10	800
16	Wick	1001·0	0	SSE	2	$d_o d_o$	55	95	6	5	2	–	7-8	10	1500
	Lerwick ...	1002·2	+4	S	1	c fm	55	95	3	5	7	–	4-6	9	<150
17	Blacksod Point	1000·9	+18	WNW	3	iD	57	85	7	6	–	–	10	10	<150
18	Malin Head ...	997·8	+4	NE	1	c	58	95	6	6	1	–	7-8	9+	2500
	Aldergrove ...	997·9	-2	W	1	c	63	85	7	7	–	–	7-8	7-8	1500
	Donaghadee ...	998·0	0	SSE	1	f	59	85	3	5	–	–	7-8	7-8	1500
19	Birr Castle ...	998·7	+8	NNW	3	c	63	75	8	5	–	–	9+	9+	2500
20	Valentia Obsy.	1003·5	+6	WNW	4	c	60	75	8	5	–	–	9+	9+	2500
	Roches Point...	1000·1	+16	N	4	c	61	75	9	6	–	–	7-8	7-8	2500

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 18h. G.M.T. 25th July: Barom. at M.S.L. mb. (15)	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)	PAST 24 HOURS. Weather. 7h.–13h. 25th (37)	13h.–18h. 25th (38)	18h. 25th to 1h. 26th (39)	1h.–7h. 26th (40)
1	London (Kew)...	997·0	0	SW	4	$r_o r_o$	60	95	6	6	1	–	7-8	10	800	1	*	cc p_oc	ci_or Rtlcrr	cir orr c	c
	Croydon ...	998·2	+10	WSW	4	rr	58	95	6	6	2	–	7-8	10	800	1	*	rr $r_o$cpr	cRrrrm_o	orrRbc	bcc
	S. Farnborough	997·6	+6	WSW	4	dr	59	95	6	6	–	–	10	10	800	2	*	R cir	cRord	oDmrc	prc
	Winchester ...	998·5	+12	W	4	ir_o	59	95	7	6	2	–	7-8	10	1500	1	*	$r_o r_o$cP	cR$r_o r_o$	cr$_o$c	c
	Boscombe Down	998·3	+14	WNW	4	c/r	59	95	8	5	–	–	10	10	4000	1	*	crir_o	cir_oc	cr$_o$	c
	Calshot, S'thmtn	998·6	+10	SW'W	3	c	61	95	8	8	7	–	7-8	9+	1500	1	1	cr$_o$prc	cpr	cbc	c
	Dungeness ...	*	*	SW	4	c/r	*	*	7	8	7	*	7-8	9+	1500	*	4	p	p	*	b
	Lympne ...	998·3	-2	SW	4	c/pr	59	95	8	8	–	–	9+	9+	1500	1	*	orrc	ccpR	orrm$_o$	cu$_o$c
2	Shoeburyness	997·7	0	SW	3	ir	60	95	6	5	2	–	7-8	10	1500	1	*	cir	cirbc	corr	c
	Felixstowe ...	997·3	-2	S	5	c	63	85	8	8	4	–	7-8	7-8	1500	1	2	cr$_o$crr	crcq	q/pr	errbc
	Gorleston ...	996·9	-2	SW	3	c/pr	64	95	7	8	–	–	7-8	7-8	2500	1	3	coir$_o$q	or$_o$r$_o$c	cpr$_o$bc	cor$_o$r$_o$
	Cranwell ...	995·3	-2	W	3	ir_o	62	85	7	9	2	–	7-8	10	1500	1		$r_o r r m_o$	$r_o r r_o$c	$r_o$orro	rr$r_o r_o$
3	Cardington ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	orreir	cir$_o$c
	Birmingham ...	997·6	+4	WNW	3	rr	58	95	5	6	–	–	10	10	800	1	*	orc	orRr	orr$_o$c	cbc
	Upper Heyford	997·0	+12	WNW	3	rr	58	95	6	6	2	–	7-8	10	800	1	*	cr$_o$d$_o$	cd$_o$Rr	crrR	c
	Leafield ...	997·1	+6	WNW	3	ir	57	95	6	6	–	–	10	10	1500	1	*	orrc	cir$_o$o	orrbc	bcc
4	Ross-on-Wye ...	998·3	+10	WNW	2	c	60	95	9	9	7	–	4-6	9+	2500	1	*	drr	oR$r_o$oc	cbcb	bcc
5	Portland Bill...	1000·0	+12	W'N	5	c/pr	60	95	8	3	6	–	4-6	7-8	2500	1	4	cipr	cipr	bc	bccipr_{3o}
	Plymouth ...	1002·2	+16	WNW	5	jp	62	85	8	9	4	–	9	9+	2500	1	3	c=pr	bcpr$_o$	cr$_o$o	om$_o$r$_o$
	Falmouth ...	1003·3	+10	W'N	5	q	62	85	8	1	3	4	2-3	4-6	4000	0	3	cpq	cpbcq	bccr	cr$_o$orm$_o$
	Scilly (St. Mary's)	1004·6	+10	WNW	5	bc	60	85	7	8	8	3	2-3	4-6	4000	0	3	cp	cbc	bccir	orrf
	Guernsey ...	1003·7	+20	W	5	c	60	85	7	5	–	–	9+	9+	1500	1	4	oirbc	cbcoc	opro	oprrr
6	Pembroke ...	999·2	+4	W	3	bc	60	85	8	3	8	1	4-6	4-6	1500	0	2	bccd$_o$	cbc	bcc	bccir_o
7	Holyhead ...	999·5	+6	NW	3	bc	60	85	8	2	3	1	Tr	2-3	2500	0	1	c	cbc	b cprbc	b c
	Chester (Sealand)	997·5	+6	NW'W	4	c	61	85	6	5	3	6	2-3	7-8	1500	0	*	c$_{3o}$v	c$_{3o}$	bcb	bcc
8	L'pool (Bidston)	997·1	+2	NW	4	c	61	85	8	8	7	6	2-3	7-8	2500	0		cc	cc	cbbc	bccv
9	Harrogate ...	996·8	0	NW	2	o/r	58	95	5	6	–	–	10	10	2500	1	*	c$_o$c$_o r_o$	orr	oc	c
10	Spurn Head ...	996·0	-6	ESE	3	ir_o	59	95	6	6	4	–	7-8	9+	4000	1	1	cir$_o$	cir$_o$	cp$_o$oR	oRfr$_o$
	Tynemouth ...	997·0	-6	NNW	2	c/r	56	95	7	6	–	–	7-8	7-8	1500	1	1	or$_o r_o$	oir	co	oir$_o$m
11	Inchkeith ...	998·2	-6	ENE	2	rr	55	95	5	6	–	–	10	10	800	1	2	orrF	orrF	o	om$_o$
	Leuchars ...	998·8	-2	NE	1	r_o	55	95	5	6	–	–	10	10	220	1	*	$r_o r_o$rrm	orr$r_o r_o$	r$_o$rid$_o$	cid$_o$m$_o$
12	Renfrew ...	998·8	-2	–	0	id_o	59	95	6	5	–	–	10	10	1500	1	*	$r_o r_o$	$r_o$co	o$_o$id$_o$	o$_o$id$_o$
	Eskdalemuir ...	997·3	0	–	0	$r_o r_o$	57	95	5	6	2	–	9	10	800	1	*	cirgc	cc$r_o r_o$	cr$_o$c	c
13A	Tiree	998·3	0	NNW	2	c	57	95	7	5	2	–	4-6	9+	1500	1	1	$od_o d_o$	cd$_o$	cod$_o$	c
13B	Stornoway ...	998·6	-8	NE	2	c	57	85	8	3	2	–	4-6	10	2500	1	1	cpor	cir$_o$	c	oid$_o$
15	Dalwhinnie ...	998·7	-6	–	0	c	57	85	8	3	2	–	4-6	10	1500	1	*	rr	irc		c
	Aberdeen ...	998·4	-8	–	0	rF	55	95	1	5	–	–	10	10	<150	1	1	frc$r_o r_o$	r$_o$rrfefe	fe oir$_o$	oir$_o$
16	Wick	999·0	-10	ENE	2	rr	53	95	6	5	2	–	7-8	10	1500	1	2	cd$_o$m$_o$	d$_o$rrm	crr ff	ff rr
	Lerwick ...	1001·7	-4	NE	2	f	54	95	3	5	–	–	10	10	<150	1	*	oFFcffe	coffe	oss, r	off r$_o$m
17	Blacksod Point	1001·6	0	W'N	3	c	57	75	9	5	–	–	7-8	7-8	1500	0	3	id	cbc	c	c
18	Malin Head ...	998·2	+4	W'N	2	c	57	95	6	6	1	–	7-8	9+	2500	1	1	cir$_o$m$_o$m$_o$	cm$_o$m$_o$	cm$_o$cpc	cbcv
	Aldergrove ...	998·1	+6	NW'W	2	c/pr	61	85	7	8	7	–	7-8	9	2500	1	*	m$_o$c	bc$_o$p$_o$	edc	cpr
	Donaghadee ...	998·1	0	–	0	bc	58	85	7	8	3	–	2-3	4-6	2500	0	0	cff	cffbc	bcfRc	c
19	Birr Castle ...	1000·2	+6	NW	3	c/pr	60	85	8	8	–	–	9+	9+	1500	1	*	d_ocd_oc	cp$_o$	cb$_o$c	c
20	Valentia Obsy.	1003·1	-4	W	3	c	58	75	9	8	–	–	7-8	7-8	2500	1	2	cp$_o$c	c	cb$_o$rc	cwc
	Roches Point...	1001·7	+8	N	3	bc	63	65	9	8	–	9	2-3	4-6	2500	0	2	cp$_o$cv	cvbcv	b$_o$vc	cb$_o$c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
f_s, fog over sea (coast station).
f_g, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ☾, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

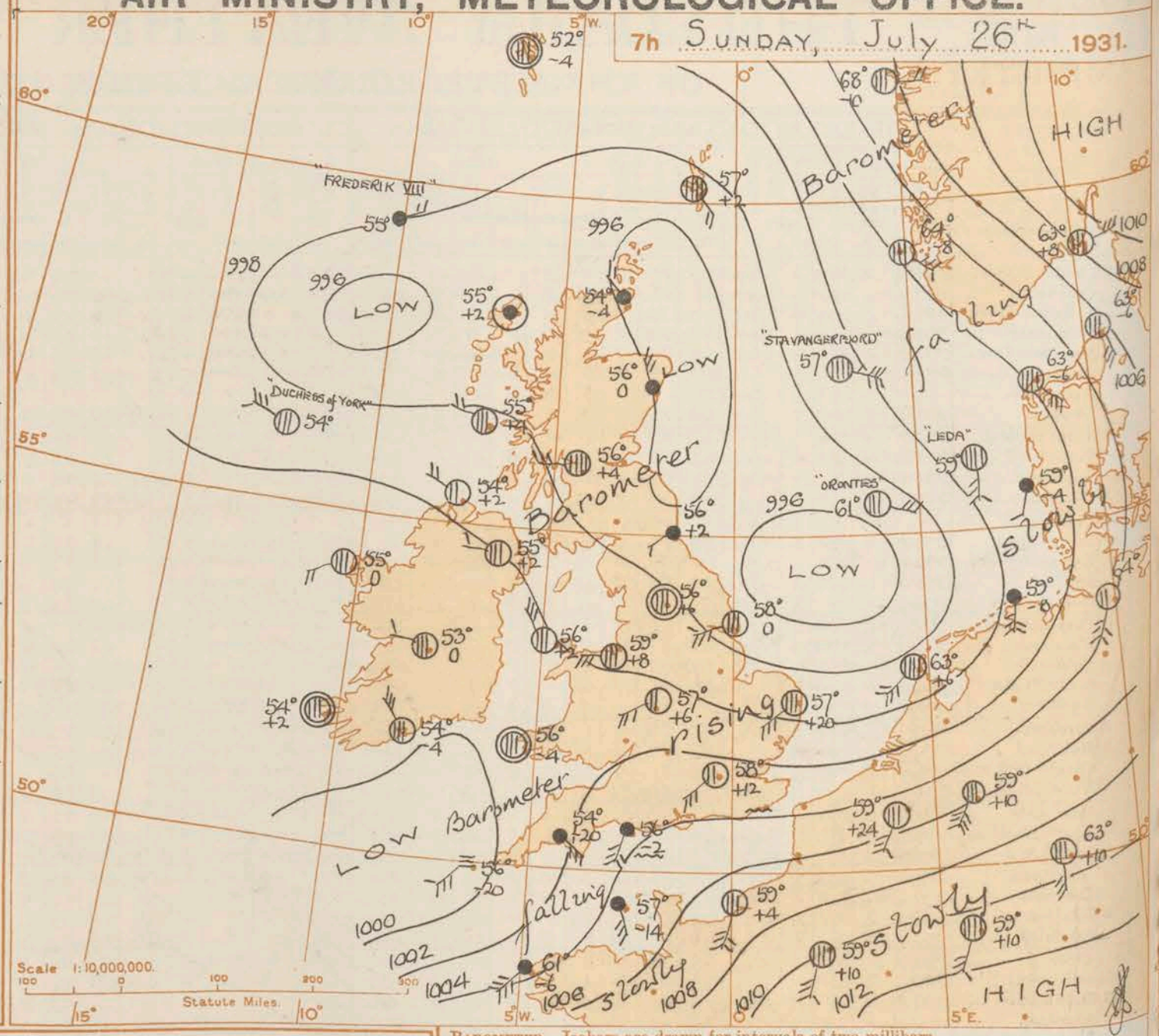
REPORTS from HEALTH RESORTS for SATURDAY 25TH JULY 1931.

Districts	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 24th to 9h. 25th	Temperature. Max. 9h.—17h. 25th	Rainfall. Night. 17h. 24th to 9h. 25th	Rainfall. Day. 9h.—17h. 25th	Sunshine. Sunrise to 17h. 25th	Sunshine. Sunrise to Sunset. 24th
1	Tunbridge W.	ocopo	oro	56	65	2	1	1·2	11·5
	Bournemouth	obc	ror	56	64	11	8	2·2	6·0
	Ventnor ...	orcu	oudr	57	61	5	2	0·7	10·9
	Southsea ...	orcp	bccp	58		15	1	1·9	8·6
	Bognor Regis	roo	bcro	58	64	6	2	1·6	10·0
	Littlehampton	bc	bccp	58	63	8	2	2·1	11·3
	Worthing ...	c	bco	59	63	9	6	1·8	11·5
	Brighton ...	codo	oroco	58	63	9	6	1·2	10·1
	Eastbourne†	oc	coiroc	58	64	2	0·2	1·6	10·7
	Hastings† ...	odoc	bcorc	57	65	3	2	1·0	10·4
	Folkestone ...	oorc	cbcor	57	66	1	0·5	2·6	11·0
	Dover... ...	roc	cbccp	59	63	1	0·3	2·8	10·7
	Deal	oro	cbo	54	67	–	1	3·6	7·5
	Ramsgate ...	rcp	bcc	59	65	0·2	1	3·8	9·0
	Margate ...	cdr	bcc	60	67	Trace	1	3·5	10·2
2	Southend ...	ocp	bcpc	60	66	Trace	1	2·1	11·5
	Maldon ...	oir	cir	54	67	1	2	0·7	9·3
	Clacton-on-Sea	cpc	cpcbc	62	65	0·2	2	3·0	10·0
	Dovercourt ...								
	Lowestoft ...	bcbcc	cidoc	59	66	–	0·6	2·0	6·4
	Skegness ...	om	bcomd	59	66	3	Trace	1·3	9·2
	Mablethorpe	omr	oc	55	65	4	1	0·4	8·4
	Cleethorpes...	orro	ocoro	56	65	6	2	0·5	7·2
3	Leamington S.	o	opr	55	65	1	4	0·0	3·5
4	Cheltenham†	oroir	cporr	55	62	3	6	0·0	1·6
5	Bath	cir	cir	56	62	7	2	0·0	2·1
	Weymouth ...	cbc	crcbc	57	67	12	0·5	2·1	7·1
	Jersey ...	rc	pbcc	59	62	16	5	2·0	7·3
	Torquay ...	rRcRpl	bcgpo	56	69	14	2	5·9	2·2
	Penzance ...	bcp	cbcpr	56	64	22	0·3	4·3	2·3
	St. Ives ...	p	c	55	61	30	0·3	1·7	4·9
	Bude	cbcc	ccbc	54	63	23	–	3·6	2·4
	Ilfracombe ...	odc	bcco	56	63	21	0·1	1·6	4·0
6	Aberystwyth	crrir	cbcc	55	63	12	0·3	1·8	1·6
7	Llandudno ...	c	ccbc	56	65	3	–	1·8	2·7
	Colwyn Bay...	o	obcbl	55	65	1	–	1·3	2·9
	Rhyl								
8	Wallasey ...	co	ocbc	55	65	2	–	0·2	1·9
	Southport‖ ...	oco	gdooc	54	64	1	0·2	0·5	1·4
	Blackpool ...	co	ccpc	55	65	2	0·1	2·0	2·6
	Morecambe ...	c	c	56	64	0·5	–	0·5	2·0
9	Ilkley... ...	rdo	ord	54	60	2	3	0·0	2·9
10	Berwick-on-T.	oro	roRo	53	57	0·6	2	0·0	1·0
11	Dunbar ...	crrf	orrf	54	59	0·5	2	0·0	1·1
12	Douglas ...	ccb	ccb	54	65	3	–	4·2	1·8

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h SUNDAY, July 26th 1931.



Districts	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 26th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Moderate to fresh west to southwest winds; cloudy; rain later in the period; perhaps thunder locally later; rather cool.
8. N.W. England 9. N. Midlands 10. N.E. England	Moderate west to northwest winds; mainly cloudy; some rain; rather cool.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland	Light to moderate westerly or variable winds; cloudy, some rain; rather cool.
15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate easterly or variable winds; dull, rain and fog; rather cool.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable winds, becoming moderate westerly; cloudy; some rain; rather cool.

H.M. Stationery Office Press, Kingsway W.C.2

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 3/10 to 7/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ≈ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A complex depression covers Scotland and the North Sea while another depression south of Ireland is moving slowly eastwards. A further depression is indicated in Mid-Atlantic. Winds will be variable and weather unsettled generally.

FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 1100 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

Morning of
Sunday,
26th July,
1931.

LOW
HIGH
H I G H

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.
⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 26th July 1931.

No. 25448

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

District	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°Temp. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1001.0	+10	W'S	3	C	58	95	7	5	-	-	7.8	7.8	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	10026	+14	WSW	4	C	60	85	8	5	7	-	4.6	9	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	10008	+10	WSW	3	0/r	58	95	6	5	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	4	*	*	*	*
	Gorleston ...	14	9972	0	WSW	1	C	57	95	6	-	2	-	0	9+	-
	Cranwell ...	240	9970	+6	W'N	3	rr	57	95	5	6	-	-	10	10	450
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1003.0	+12	WSW	5	bc	58	85	8	4	4	-	2.3	4.6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	10064	-4	SW'W	2	ir.	55	95	7	5	2	-	7.8	10	4000
	Scilly (St.Mary's)	163	1004.7	-4	SW	3	ir.	56	95	7	6	-	-	9+	9+	4000
	Guernsey ...	175	10063	+10	SW	3	0	57	85	8	5	-	-	10	10	1500
6	Pembroke ...	142	1001.6	+0	WSW	3	bc	57	95	8	2	4	-	4.6	4.6	2500
7	Holyhead ...	26	1000.3	+2	W'N	5	b	56	95	7	5	-	-	1	1	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	9960	0	N	3	RR	57	95	6	6	-	-	10	10	1500
	Tynemouth ...	67	9969	0	N	3	0	55	95	7	5	-	-	10	10	1500
11	Inchkeith ...	190	9981	0	SW	1	0	53	95	7	5	-	-	10	10	800
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	9980	-2	-	0	C	56	95	7	4	2	-	7.8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	9974	-6	-	0	F-	53	95	1	5	-	-	10	10	4150
16	Lerwick ...	54	9954	-16	SE	3	rf	55	95	3	6	-	-	10	10	4150
17	Blacksod Point	18	10012	0	-	0	C	54	95	7	5	-	-	9+	9+	4150
18	Malin Head ...	52	9996	+2	WNW	2	C	55	95	8	5	7	-	4.6	9+	4000
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	10026	-14	S	1	bc	53	85	8	5	-	-	4.6	4.6	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°Temp. (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)...	1002.9	+10	SW	3	c	60	85	8	5	3	-	7.8	9	1500	1	*
	Croydon ...	1002.9	+12	SW'W	3	c	58	85	8	5	7	1	7.8	9+	1500	1	*
	S. Farnborough	1002.8	+8	SW'W	3	c	58	85	8	5	3	2	7.8	9+	4000	1	*
	Winchester ...	1003.4	+8	SW	3	c	56	85	8	5	2	1	4.6	9+	4000	1	*
	Boscombe Down	1002.9	+6	SSW	3	c	55	95	8	5	2	-	4.6	9+	2500	1	*
	Calshot,(S'thmtn)	1003.4	+4	SW'W	3	bc	58	85	8	9	3	-	4.6	9	1500	0	*
	Dungeness ...	*	*	SW	5	c	*	*	7	8	4	*	4.6	7.8	2500	*	4
	Lympne ...	1003.4	+18	WSW	4	c	57	95	7	5	3	-	7.8	9	450	1	*
2	Shoeburyness	1002.3	+30	SW'W	4	c	60	85	7	8	1	-	9	10	2500	1	*
	Felixstowe ...	1001.4	+16	SW	4	c	61	85	8	6	3	-	7.8	7.8	1500	1	2
	Gorleston ...	999.2	+20	WSW	3	c/r	57	95	8	6	3	-	4.6	9	2500	1	2
	Cranwell ...	999.5	+16	WSW	3	c/r	56	95	7	6	7	-	9	9+	450	1	*
3	Cardington ...	1000.8	+8	SW'W	4	c	61	95	6	8	7	-	7.8	7.8	2500	*	*
	Birmingham ...	1001.1	+6	WSW	3	bc	57	95	8	7	3	2	2.3	4.6	800	1	*
	Upper Heyford	1001.8	+6	SW	4	c	57	95	8	8	3	1	7.8	9	1500	1	*
	Leafield ...	1001.2	+6	SW'W	4	c	57	95	8	7	8	4	2.3	7.8	800	1	*
4	Ross-on-Wye ...	1001.3	+4	SW'S	3	bc	55	85	7	5	1	5	Tr	4.6	4000	1	*
5	Portland Bill...	1002.6	-2	SW'S	5	ar	56	95	6	5	-	-	1.0	1.0	1500	1	4
	Plymouth ...	1001.6	-20	ESE	3	d	54	95	6	5	-	-	1.0	1.0	450	2	1
	Falmouth ...	1001.3	-12	E'S	4	r	55	95	6	5	-	-	1.0	1.0	800	1	2
	Scilly (St.Mary's)	999.3	-26	SW'S	4	r	56	95	6	5	-	-	1.0	1.0	450	1	2
	Guernsey ...	1004.3	-14	SSE	3	r	57	95	4	6	-	-	1.0	1.0	800	1	3
6	Pembroke ...	1000.7	-4	-	0	c	56	85	7	8	8	-	4.6	9	2500	1	1
7	Holyhead ...	1001.2	+2	NW	3	c	56	95	8	8	-	-	9+	9+	5700	1	2
	Chester (Sealand)	999.8	+8	W	3	c	59	85	8	5	-	-	9	9	2500	1	*
8	L'pool (Bidston)	999.5	+4	W	4	c	57	95	7	7	-	-	9	9	4000	0	*
9	Harrogate ...	998.5	+6	-	0	c	56	95	7	6	2	-	7.8	10	2500	1	*
10	Spurn Head ...	999.2	0	W	4	c	58	95	6	6	2	-	7.8	10	2500	1	3
	Tynemouth ...	999.9	+2	SW	1	r	56	95	6	5	-	-	10	10	1500	1	1
11	Inchkeith ...	999.8	-4	WSW	2	c	55	95	6	5	2	-	4.6	10	800	0	2
	Leuchars ...	997.3	0	-	0	d	57	95	6	8	2	-	4.6	10	1500	1	*
12	Renfrew ...	998.9	+4	W	3	d	56	95	6	8	-	-	10	10	800	1	*
	Eskdalemuir ...	997.5	+6	SW	1	c	56	85	8	8	1	-	9+	9+	1500	1	63
13A	Tiree	999.0	+4	WNW	2	c	55	95	7	5	7	-	4.6	7.8	1500	1	1
13B	Stornoway ...	997.2	+2	-	0	d	55	95	7	6	4	-	10	10	1500	1	0
15	Dalwhinnie ...	997.4	+2	-	0	c	54	95	6	6	2	-	7.8	10	450	1	*
	Aberdeen ...	996.0	0	NNW	3	ir.	56	95	6	6	-	-	10	10	800	1	1
	Wick	995.9	-4	NW	2	rr	54	95	6	6	-	-	10	10	1500	1	2
16	Lerwick ...	997.6	+2	SE	2	r	57	95	7	6	-	-	10	10	450	1	*
17	Blacksod Point	1000.8	0	WSW	2	c	55	85	9	7	-	-	10	10	450	0	2
18	Malin Head ...	999.6	+2	NW	2	bc	54	95	8	8	3	-	1	2.3	4000	0	0
	Aldergrove ...	999.9	+2	W'N	1	d	55	85	7	8	-	-	9	9	1500	1	*
	Donaghadee ...	999.5	+6	WNW	1	c	57	75	7	8	-	-	7.8	7.8	1500	0	1
19	Birr Castle ...	1000.6	0	W'N	1	c	53	95	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy.†	1001.6	+2	-	0	c	54	95	9	5	-	-	9+	9+	1500	1	2
	Roches Point...	1001.0	-4	NW	3	c	54	95	8	3	-	-	7.8	7.8	1500	1	3

PAST 24 HOURS.

District	Stations.	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine Hrs. (36)
1	London (Kew)...	69	58	56	16	7	0.7
	Croydon ...	68	58	56	15	8	1.6
	S. Farnborough	67	56	51	8	4	1.1
	Winchester ...	65	55	54	15	0.1	1.0
	Boscombe Down	64	53	52	0.5	Tr	*
	Calshot,(S'thmtn)	65	56	55	2	Tr	2.0
	Dungeness ...	64	58	*	3	*	*
	Lympne ...	64	57	56	2	6	2.4
2	Shoeburyness	67	58	57	1	8	2.6
	Felixstowe ...	66	61	55	2	2	2.9
	Gorleston ...	68	56	54	0.6	4	1.8
	Cranwell ...	66	54	53	0.5	18	0.0
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	60	53	51	7	1	0.0
	Upper Heyford	64	53	50	3	3	*
	Leafield ...	63	53	48	2	2	0.3
4	Ross-on-Wye ...	61	53	45	11	-	0.8
5	Portland Bill...	61	55	*	0.5	0.1	*
	Plymouth ...	64	53	53	0.2	3	4.1
	Falmouth ...	64	53	*	0.1	3	8.3
	Scilly (St.Mary's)	62	53	*	Tr.	7	5.4
	Guernsey ...	64	55	54	4	3	2.4
6	Pembroke ...	60	56	*	Tr.	Tr	4.3
7	Holyhead ...	63	55	52	-	0.5	6.8
	Chester (Sealand)	66	52	46	-	-	1.3
8	L'pool (Bidston)	63	55	53	-	-	2.1
9	Harrogate ...	59	55	53	5	-	0.0
10	Spurn Head ...	63	57	*	1	30	1.1
	Tynemouth ...	58	54	53	4	Tr	*
11	Inchkeith ...	56	53	51	7	0.2	0.0
	Leuchars ...	57	53	53	6	1	0.0
12	Renfrew ...	61	53	49	1	Tr	0.0
	Eskdalemuir ...	56	52	48	1	1	0.7
13A	Tiree	59	54	53	2	0.2	0.0
13B	Stornoway ...	60	54	*	0.2	0.1	0.2
15	Dalwhinnie ...	58	52	51	6	Tr	0.0
	Aberdeen ...	58	55	55	5	0.6	0.1
	Wick	55	52	*	5	10	*
16	Lerwick ...	56	53	*	Tr	0.6	0.0
17	Blacksod Point	59	53	*	0.2	Tr	*
18	Malin Head ...	59	53	*	1	Tr	0.1
	Aldergrove ...	68	53	51	0.2	0.3	2.4
	Donaghadee ...	61	53	-	-	3	*
19	Birr Castle ...	65	52	51	0.2	Tr.	2.8
20	Valentia Obsy.†	61	51	46	0.1	0.1	3.5
	Roches Point...	64	51	*	0.1	0.1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h)	Weather. Afternoon. (24 hrs. ended 9h)	Weather. Night. (24 hrs. ended 9h)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	cbc	cbrRtler	otrc	69	58	56	16	7	0.7	*	*	8
CROYDON	217	rrbrcbr	cRrrm.	otrRbrc	68	58	56	5	8	1.6	*	*	8
GREENWICH (Royal Observatory) ...	149	dcr	cbtrr	rrrc	71	57	56	5	3	1.0	69	70	7
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.5	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	68	59	58	<—8.6—>		1.2	69	71	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	0.6	*	*	*
CAMDEN SQUARE	110	oc	cor	*	67	57	57	<—0.1—>		*	*	76	*
KENSINGTON	80	bcblr	cor	*	70	58	57	8	5	1.1	At 18h.	74	*
HAMPSTEAD OBSERVATORY	450	obc	oblo	*	66	53	52	10	3	0.9	97	83	*

FOREIGN OBSERVATIONS.

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

Stations.	18h. Barom. mb.	18h. Wind. Direc.	18h. Wind. Force.	18h. Weather.	18h. Temp. °F.	7h. Barom. mb.	7h. Wind. Direc.	7h. Wind. Force.	7h. Weather.	7h. Temp. °F.
PARIS	1004.3	WSW	4	C	66	1003.7	SSW	4	C	59
BRUSSELS	1001.6	SSW	2	bc	64	1005.8	SW	4	C	59
BERLIN	1003.9	SE'E	3	C	81	1006.5	SW	3	bc	66
ZÜRICH	1009.8	SW	1	ir.	63	1012.4	N	1	C	61
ROME	1010.6	SSW	3	b	81	1010.5	SSW	1	C	73

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.	Max.	Time.	Min.	Time.
	1.0	7h. 25m.	Nil	23h. 25m. to 6h. 26m.

KEW OBSERVATORY.	Max.	Time.	Min.	Time.
	0.1	18h. 25m.	<0.1	0 - 5hrs 26th

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
72	57	6	3
72	57	6	3
84	63	-	Trace
84	57	2	0.4
88	57	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 18.
The barometric tendency is expressed in tenths of a millibar.

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 27th July 1931.

No. 25449.

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°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)	1001.8	-14	SW	2	r₀r₀	61	85	7	6	4?	-	7-8	10	1500
	Croydon	1002.5	-4	S	3	d₀d₀	58	95	6	6	2	-	9	10	450
	S. Farnborough	1001.1	-16	SSE	2	DD	58	95	6	6	-	-	10	10	800
	Winchester	1000.3	-22	SSE	4	DD	58	95	5	6	-	-	10	10	<150
	Boscombe Down	1000.6	-20	SSE	3	dd	58	95	5	6	-	-	10	10	<150
	Calshot, S'thmtn	1001.2	-20	SE'E	4	r₀r₀	60	95	4	6	-	-	10	10	450
	Dungeness	*	*	S	3	rr	*	*	5	6	-	*	10	10	800
	Lympne	1003.5	-4	S	4	df	56	96	2	6	-	-	10	10	<150
2	Shoeburyness	1002.9	0	SW'S	3	ir₀	61	85	7	6	2	-	4-6	10	1500
	Felixstowe	1002.5	+2	S'W	4	c/pr	62	75	8	8	1	-	4-6	7-8	1500
	Gorleston	1000.6	+6	SW'S	4	c/pr	64	95	7	9	-	-	7-8	7-8	2500
	Cranwell	999.5	-2	WSW	2	c	65	75	6	7	3	-	4-6	9	2500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1000.3	-4	SSW	3	c/pr	61	75	8	2	2	-	2-3	10	2500
	Upper Heyford	1000.9	-6	SSW	2	c	60	75	8	5	-	-	10	10	1500
	Leafield	1000.3	-10	SSE	3	o/p	58	85	7	6	-	-	10	10	2500
4	Ross-on-Wye	1000.3	-8	S'W	3	c	61	75	8	5	-	-	10	10	4000
5	Portland Bill	999.3	-18	SW	6	o/r	60	95	6	5	-	-	10	10	1500
	Plymouth	999.0	-8	SW	4	d₀d₀	60	95	6	5	-	-	10	10	220
	Falmouth	999.0	-2	WSW	5	r₀r₀	60	95	6	5	-	-	10	10	800
	Scilly (St. Mary's)	999.1	+4	W'S	4	df	60	95	3	5	-	-	10	10	<150
	Guernsey	1002.4	-4	SSW	4	c	63	88	7	8	6	-	7-8	9	2500
6	Pembroke	999.9	-4	SW	2	rr	57	85	7	6	-	-	10	10	1500
7	Holyhead	1001.1	-2	NNW	3	c	58	95	8	8	-	-	9+	9+	4000
	Chester (Sealand)	999.6	-2	NW	2	c	62	65	8	8	-	-	9+	9+	2500
8	L'pool (Bidston)	999.4	0	NW'N	3	bc	60	75	8	8	4	-	2-3	4-6	4000
9	Harrogate	998.2	0	WS	3	c	64	65	9	8	-	-	7-8	7-8	4000
10	Spurn Head	998.0	0	W	2	c	68	75	7	2	4	1	2-3	7-8	4000
	Tynemouth	998.3	0	W	2	o	64	75	6	6	-	-	10	10	1500
11	Inchkeith	998.6	0	NNW	2	ir₀	59	95	7	5	2	-	2-3	9+	2500
12	Leuchars	997.0	-2	E	1	ir₀	60	85	7	6	2	-	7-8	9+	450
	Renfrew	998.2	-2	W'N	3	c	65	75	8	8	3	1	4-6	7-8	1500
	Eskdalemuir	997.0	0	WNW	4	c	62	68	8	2	3	-	2-3	9+	2500
13A	Tiree	999.5	+4	WNW	3	bc	60	85	8	7	6	-	2-3	2-3	4000
13B	Stornoway	997.6	+4	-	0	c	57	95	9	3	2	-	7-8	10	1500
15	Dalwhinnie	998.0	+2	WNW	1	c	56	85	7	4	2	-	9	10	800
	Aberdeen	996.6	+1	NNW	3	ir₀	57	85	6	6	-	-	10	10	800
	Wick	996.3	+4	NW	2	c	56	85	6	5	2	-	7-8	10	1500
16	Lerwick	995.2	+12	SE	2	c	60	95	5	5	-	-	7-8	7-8	<150
17	Blacksod Point	1001.7	+6	NW	3	c	58	75	9	5	-	-	9	9	800
18	Malin Head	999.8	0	NW	3	c	57	85	9	8	9	-	2-3	9	4000
	Aldergrove	999.5	-2	NNW	2	c	62	65	9	9	-	-	7-8	7-8	2500
	Donaghadee	999.6	0	-	0	c	57	75	7	5	2	-	4-6	7-8	2500
19	Birr Castle	1000.1	0	NW	1	c	61	85	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	1002.8	+10	NW'W	4	c	59	65	9	7	3	8	4-6	7-8	2500
	Roches Point	1000.3	+2	N	3	c	60	75	9	5	-	-	7-8	7-8	2500

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

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°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)	997.8	-18	SSW	3	DD	63	95	6	6	-	-	10	10	1500	1	*
	Croydon	999.0	-14	SW'S	4	dd	62	95	5	6	-	-	10	10	450	1	*
	S. Farnborough	997.9	-14	SSW	4	dd	62	95	6	6	-	-	10	10	450	1	*
	Winchester	998.0	-10	SW'W	4	dd	60	95	7	6	-	-	10	10	220	1	*
	Boscombe Down	997.8	-6	SSW	3	dd	60	95	5	6	-	-	10	10	<150	1	*
	Calshot, S'thmtn	999.2	-8	SW	5	o/r	61	95	6	5	-	-	10	10	450	1	3
	Dungeness	*	*	SW	4	iR	*	*	4	6	-	*	10	10	800	*	3
	Lympne	1000.1	-6	SW'S	4	o/r	61	95	6	5	-	-	10	10	<150	1	*
2	Shoeburyness	998.8	-24	SSW	4	c/r	63	95	7	6	2	-	7-8	9+	1500	1	*
	Felixstowe	999.0	-28	S	3	DD	62	95	7	6	-	-	10	10	800	1	2
	Gorleston	999.6	-8	SSE	4	rr	59	95	6	6	-	-	10	10	1500	1	3
	Cranwell	998.1	-10	SSW	2	ir₀	61	85	8	5	2	-	7-8	10	2500	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	998.8	-8	WSW	1	c	60	75	8	6	2	-	2-3	10	1500	1	*
	Upper Heyford	998.2	-18	NE	2	o/r	59	95	7	6	-	-	10	10	800	1	*
	Leafield	997.8	-14	NE'N	1	o	57	95	8	6	-	-	10	10	800	1	*
4	Ross-on-Wye	998.8	-10	N'W	2	rr	59	95	6	6	1	-	7-8	10	2500	1	*
5	Portland Bill	997.0	-8	SW	6	o/p	60	95	5	5	-	-	10	10	1500	1	5
	Plymouth	998.7	0	NW	3	d₀	60	95	6	6	-	-	10	10	450	1	2
	Falmouth	1000.4	+6	NNW	4	ir₀	58	95	7	5	2	-	7-8	10	4000	1	2
	Scilly (St. Mary's)	1002.2	+20	N'W	4	c	56	95	7	5	-	-	9+	9+	2500	1	2
	Guernsey	1001.7	-2	SW	4	o	61	95	7	5	-	-	10	10	2500	1	3
6	Pembroke	999.5	0	W	2	c	57	75	8	-	9	-	0	9	-	1	2
7	Holyhead	1000.9	-4	NW	1	c	58	85	9	5	8	-	7-8	9+	7200	0	0
	Chester (Sealand)	998.6	-4	NW'W	3	c	61	65	9	5	9	-	2-3	7-8	4000	0	*
8	L'pool (Bidston)	999.8	+6	WNW	4	bc	61	65	9	8	6	-	2-3	4-6	4000	0	*
9	Harrogate	997.4	-6	SSW	2	c	63	65	9	5	-	-	7-8	7-8	4000	1	*
10	Spurn Head	997.0	-2	SW	3	c	63	85	7	3	7	-	2-3	9+	4000	0	2
	Tynemouth	996.0	-2	S	1	r₀r₀	60	85	6	6	-	-	10	10	1500	1	1
11	Inchkeith	996.6	-2	W	2	ir₀	55	95	8	8	2	-	7-8	10	1500	1	1
12	Leuchars	996.3	-6	-	0	rr	58	85	5	6	2	-	9	10	220	1	*
	Renfrew	998.1	0	WNW	2	c	59	75	8	5	7	-	2-3	9+	4000	1	*
	Eskdalemuir	996.7	-3	NW	3	c	59	65	8	7	4	-	1	7-8	2500	1	*
13A	Tiree	999.1	0	WNW	3	bc	57	85	8	7	6	-	2-3	4-6	4000	0	1
13B	Stornoway	997.4	-4	-	0	ia	56	95	5	3	-	-	10	10	1500	1	0
15	Dalwhinnie	997.3	+4	NW	1	r	53	95	6	3	2	-	7-8	10?	800	1	*
	Aberdeen	995.4	-6	NNW	2	ir	56	95	6	6	-	-	10	10	800	1	1
	Wick	995.4	-4	NW	2	r₀r₀	54	95	7	9	2	-	7-8	10	1500	1	2
16	Lerwick	997.4	-8	SE	2	r	57	95	3	5	-	-	10	10	<150	0	*
17	Blacksod Point	1001.2	0	W	4	c	57	85	9	8	-	-	9	9	450	0	3
18	Malin Head	999.4	-2	NW	3	bc	59	56	8	8	4	-	2-3	4-6	2500	0	1
	Aldergrove	999.6	+6	NW'N	2	ir	54	95	7	6	-	-	9+	9+	1500	1	*
	Donaghadee	999.2	-2	N	1	c	56	95	7	5	-	-	7-8	7-8	1500	0	0
19	Birr Castle	1000.0	-2	NW	1	c	59	75	8	5	1	-	7-8	9+	2500	0	*
20	Valentia Obsy.	1003.5	+6	WNW	3	c	57	75	9	5	2	-	9	10	1500	1	2
	Roches Point	1001.5	+6	N	4	c	59	75	9	5	-	-	7-8	7-8	2500	0	2

PAST 24 HOURS.

Weather. 7h.–13h. 26th (37)	13h.–18h. 26th (38)	18h. 26th to 1h. 27th (39)	1h.–7h. 27th (40)
ccr₀r	crrcdd	cdcir	cirbc
cdrr₀₀	com₀Rd	ORRrr	oRrc
cid₀D	orDma	idRo	rrbcc
cr₀drm₀	oDDm₀dd	cr	crbc
cdam₀	odd m₀	cdrrm₀	cr₀
or₀r₀m	or₀r₀	or₀m₀	cr₀bc
r	r	*	bc
corr₀f	orFr	or₀r₀m	ordd c
cir₀	orr	oir	orrc
cpr	corr₀₀DD	oDDrr	cr₀r₀c
cPR q	corr q	or₀c ir	oir
ir₀bcc	cir₀	cir₀r	cr₀bc
*	*	*	cbcc
bccpr₀	c	cp₀r	cp₀r
c	oRrr	oir₀cpr	cp₀r
c	orr	oiR	or₀c
bccpc	cr₀opid₀c	cir₀	c
drr	oPR	rrc	c
on₀dd	id₀c o	odm₀	or₀bc
or₀m₀	or₀m₀c	cr₀bc	bcpr
dffe	odffc	cbcc	cpbcc
oridc	cbcc	od₀rc	cbc
cir₀o	oc	cbc	bcc
c	cv	cvc	c
c	cv	vc	rPRc
bc	cbcv	bcc	cvp₀
c	cbc	bcc	c
cpr c	bc	cr₀c	bc
cir₀m	ccir	oir₀cbc	bc o
o m₀cir₀	rrir₀c	cir₀RR	cir₀
r₀r₀rr c	ir₀orr	orrm₀	orrir₀
oc	bccv	c=cr	Er₀c
c	c	c	cpr ir₀
cbc	cbc	c	c
c	obaβ	oidrr	orr
c	cr	*	r
oir₀	oir	orc	corr
orrm₀c	cr₀r₀c	Orrm₀	orrm₀
om₀ffcm₀	cm₀₀ffc	offe	offe r₀
c	pr c	c	prc
bcc cv	cbcv	bccrbc	bcc
cbc	bccr	crc	c
cpr₀c	c	cp₀rc	cp₀r
cy	c	cpr	cpr
cv	cvpr₀c	cprc	cprc
cp₀cv	cv	cvcg	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, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

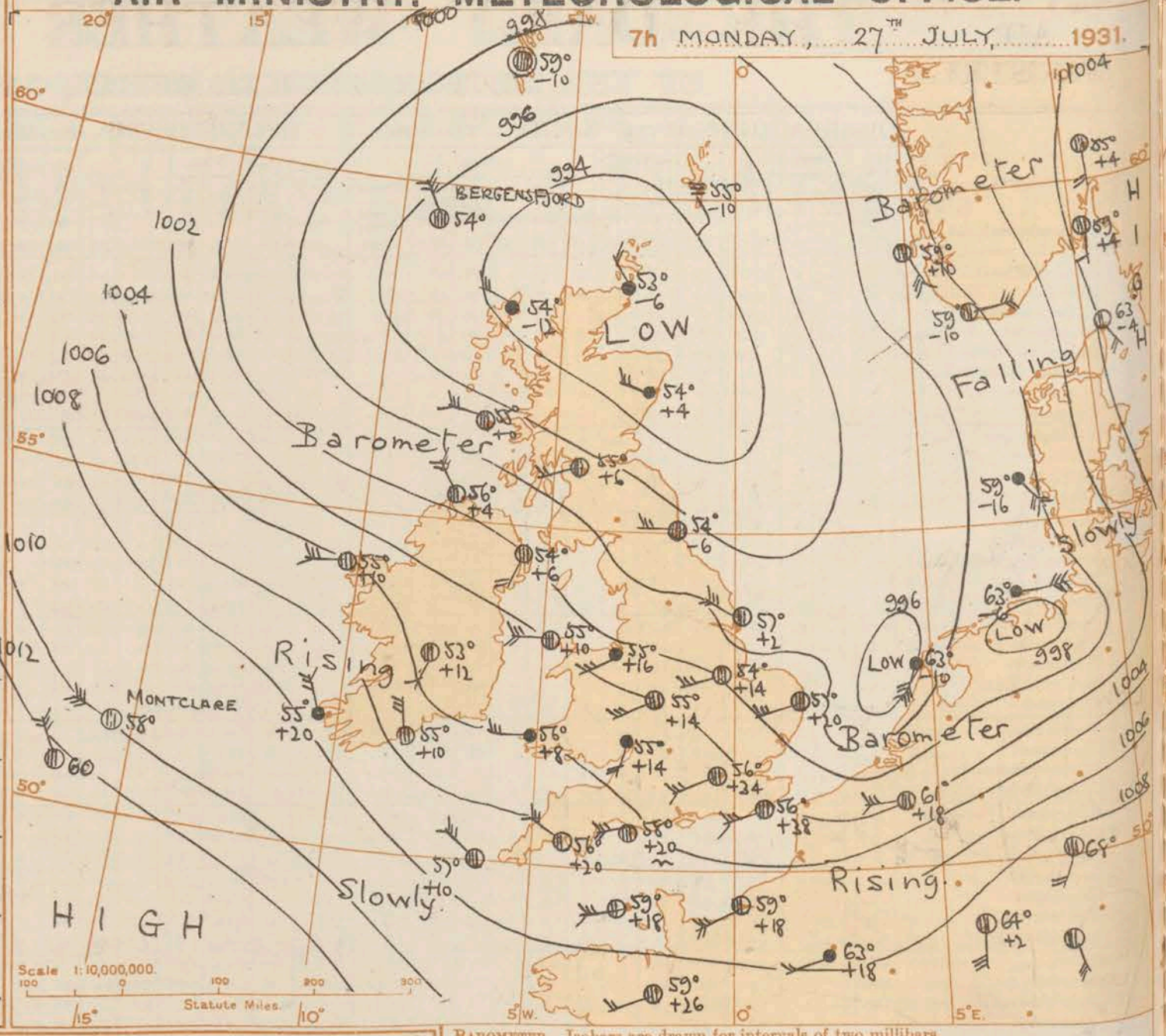
COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

REPORTS from HEALTH RESORTS for SUNDAY, 26th JULY 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 25th to 9h. 26th	Temperature. Max. 9h.—17h. 26th	Rainfall. Night. 17h. 25th to 9h. 26th	Rainfall. Day. 9h.—17h. 26th	Sunshine. Sunrise to 17h. 26th	Sunshine. Sunrise to Sunset, 25th
1	Tunbridge W.	oro	or	56	62	6	4	0.0	1.2
	Bournemouth	oro	oro	55	62	2	8	0.0	2.2
	Ventnor ...	orf	orfof	55	61	5	8	0.0	0.7
	Southsea ...	orr	orr	58	63	1	5	0.0	1.9
	Bognor Regis	rroc	rrocc	57	62	0.3	6	0.3	1.6
	Littlehampton	ccr	crc	57	62	Trace	7	0.1	2.2
	Worthing ...	cor	orro	59	62	-	6	0.2	1.8
	Brighton ...	og	rr	58	63	0.5	6	0.0	1.2
	Eastbourne†	orrr	rrro	57	62	0.1	8	0.4	1.6
	Hastings† ...	ocor	orro	57	62	2	6	0.2	1.0
	Folkestone ...	orcor	oro	58	62	7	7	1.0	2.6
	Dover... ...	cor	rroc	59	62	5	6	0.6	2.8
	Deal	oor	rro	58	64	4	5	1.5	3.8
	Ramsgate ...	cr	rdc	57	64	5	4	0.3	3.8
	Margate ...	bcc	cr	58	63	6	4	0.9	3.6
2	Southend ...	co	or	58	63	11	4	0.7	2.1
	Maldon ...	c	or	56	65	11	4	1.2	0.7
	Clacton-on-Sea	cpbcc	corc	58	64	6	4	1.5	3.3
	Dovercourt ...								
	Lowestoft ...	cprc	d.cor	56	66	6	1	3.8	2.1
	Skegness ...	rodbc	bco	58	71	15	Trace	4.6	1.3
	Mablethorpe	cbc	bcc	56	70	20	-	5.4	0.4
	Cleethorpes...	roc	cbc	56	71	29	-	4.7	0.5
3	Leamington S.	beopr	opr	52	65	12	0.3	4.0	0.0
4	Cheltenham†	c	oirm	53	63	2	2	0.9	0.0
5	Bath	cro	rrc	56	62	0.3	8	0.0	0.0
	Weymouth ...	rD	dirdco	56	62	3	7	0.0	2.4
	Jersey ...	rc	dc	58	65	5	1	0.9	2.0
	Torquay ...	orrdm	ordmodp	54	65	4	3	0.2	6.8
	Penzance ...	ord	ormd	56	64	11	1	0.1	4.8
	St. Ives ...	m	m	53	64	5	?	1.7	0.6
	Bude	r	ror	55	63	1	1	0.0	4.6
	Ilfracombe ...	od	od	57	59	-	3	0.0	1.6
6	Aberystwyth	cprc	cprc	57	62	2	1	3.1	2.2
7	Llandudno ...	c	c	57	62	-	-	2.0	4.2
	Colwyn Bay...	cobc	cbcc	56	61	Trace	-	2.0	4.3
	Rhyl								
8	Wallasey ...	bbccb	bccb	57	68	-	-	6.5	1.3
	Southport‖ ...	bc	bcbbc	57	63	-	-	7.0	2.7
	Blackpool ...	cbc	bc	57	65	-	-	6.1	3.6
	Morecambe ...	rdccb	bcbcb	57	65	2	-	4.3	1.1
9	Ilkley... ...	cbc	bc	55	69	Trace	-	5.9	0.0
10	Berwick-on-T.	o	rro	53	60	0.4	4	0.0	0.0
11	Dunbar ...	oro	forr	52	59	1	1	0.0	0.0
12	Douglas ...	cbc	ccb	54	63	1	-	3.4	6.5

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. = ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm.
SEA DISTURBANCE. ⌒ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Moderate or fresh westerly wind: some showers with perhaps local thunder but bright intervals: rather cool.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Moderate or fresh wind between west and northwest; showers and bright intervals: rather cool.
10. N.E. England	As 1 - 4.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Moderate or fresh westerly wind; cloudy, some showers; bright intervals later: moderate temperature.
13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Light or moderate northwest to west wind, freshening somewhat; dull, some rain: improving later but showers; rather low to moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 - 9.

GENERAL INFERENCE.

A depression centred off Northeast Scotland is moving slowly northward. Weather will be showery, with some bright intervals.

FURTHER OUTLOOK.

Bright intervals but some showers.

Forecasts issued at 0905 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

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

Morning of
MONDAY,
27TH JULY,
1931.

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

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 27th July 1931.

No. 25449

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

District.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	9989	0	NW	1	rr	58	95	6	6	-	-	10	10	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	10000	+10	WN	4	r.r.	57	95	7	5	-	-	9+	9+	800
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	9994	-6	SW	5	r.r.	59	95	4	6	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	9968	+4	WNW	2	ir	60	95	7	6	-	-	10	10	1600
	Cranwell ...	240	9981	0	W	2	c	55	95	6	5	-	-	10	10	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	10015	+24	WN	5	c	57	85	8	4	6	-	4-6	7-8	2600
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	10049	+10	WN	4	bc	56	95	8	5	3	-	4-6	4-6	4000
	Scilly (St. Mary's)	163	10053	+12	NW	4	c/pr	55	85	7	4	6	-	4-6	7-8	4000
	Guernsey ...	175	10044	+26	WNW	4	c	56	95	8	5	-	-	7-8	7-8	2600
6	Pembroke ...	142	10018	+6	W	2	bc	57	85	8	7	4	-	4-6	4-6	2500
7	Holyhead ...	26	10008	+8	NWN	4	c	56	95	8	5	-	-	9+	9+	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	9963	-2	NW	5	c	58	95	7	6	3	-	4-6	10	2500
	Tynemouth ...	67	9966	0	W	2	bc	55	85	6	2	-	-	4-6	4-6	2500
11	Inchkeith ...	190	9958	-2	WSW	3	0	52	95	8	5	-	-	10	10	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	9962	-6	NW	1	rr	56	95	6	6	-	-	10	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	9939	-6	NW	2	0	53	95	6	5	-	-	10	10	1500
16	Lerwick ...	54	9963	-2	-	0	5	53	95	2	5	-	-	10	10	1150
17	Blacksod Point	18	10026	+4	N	2	c	54	85	7	5	-	-	9+	9+	450
18	Malin Head ...	52	9996	0	WNW	3	bc	54	95	8	8	-	-	4-6	4-6	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	10049	+10	WN	4	bc	55	95	8	4	-	-	4-6	4-6	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1003·2	+24	WSW	3	bc	57	85	8	-	3	-	0	2·3	-	1	*
1003.9	+34	WSW	4	c	56	85	7	5	9	-	1	7·8	5700	1	*
1003·5	+18	WSW	4	bc	55	85	7	5	3	-	2·3	4·6	4000	1	*
1004·2	+18	W'S	3	c/pr	55	95	8	5	3	-	7·8	9+	5700	1	*
1004.1	+18	W'S	3	ir.	54	95	8	6	7	-	4·6	9+	1500	1	*
1004.4	+20	SW'W	3	c	57	85	8	8	3	-	4·6	7·8	2500	1	1
*	*	W'S	3	c	*	*	8	2	7	*	2·3	7·8	1500	*	3
1003.4	+38	W'S	4	c/d	56	95	8	5	3	-	4·6	7·8	1500	1	*
1002·7	+30	W'S	4	c	58	85	6	2	7	-	1	7·8	4000	1	*
1001·5	+24	W'S	3	c	56	85	8	5	3	-	4·6	7·8	2500	1	2
999.2	+20	W'S	3	c/r	57	95	6	6	3	-	4·6	9+	2500	1	2
1000·3	+14	WSW	3	c	54	85	6	8	3	1	2·3	7·8	2500	1	*
1001.9	+16	WSW	3	c	57	85	8	5	7	-	7·8	7·8	4000	*	*
1002·6	+14	WSW	3	c	55	85	8	6	3	-	4·6	9	1500	1	*
1002·6	+16	SW	3	c/ps	54	95	8	5	3	-	4·6	9	4000	1	*
1002·5	+14	SW'W	3	c	62	95	8	5	4	-	7·8	9	4000	1	*
1003·1	+12	SW	2	pr	55	85	8	6	7	-	7·8	9+	2500	1	*
1004.7	+20	W'S	5	c	58	85	8	4	6	-	4·6	7·8	2500	1	5
1006·3	+20	WNW	4	bc	56	95	7	8	-	-	4·6	4·6	1500	1	2
1007.7	+10	W	3	bc	54	95	8	8	-	-	4·6	4·6	4000	0	1
1007.6	+10	NW'W	4	c/p	57	85	7	9	4	-	4·6	7·8	2500	1	2
1007.5	+18	W	4	bc	59	75	8	8	6	-	4·6	4·6	2500	0	3
1004.2	+8	W	3	pr	56	85	8	4	8	1	4·6	7·8	2500	0	2
1002·3	+10	W'N	5	c	55	95	8	5	-	1	9	9+	4000	0	2
1001·1	+16	W'S	3	pr	55	85	6	9	3	-	9	9+	1500	1	*
1000·2	+4	W'N	5	c/r	56	85	9	8	3	9	7·8	9	2500	0	*
998.5	+10	SSW	3	c	53	85	9	8	7	-	7·8	9	2500	1	*
997.5	+2	WNW	5	c	57	85	7	4	7	9	4·6	9	4000	10	3
996·8	-6	W	3	o	54	85	7	6	-	-	10	10	1500	0	1
995.6	+2	SW	3	c	53	95	7	8	-	-	10	10	800	1	2
995·3	-2	W	3	ir.	54	95	8	6	7	-	4·6	10	1500	1	*
997.9	+6	W	2	c	55	85	8	5	-	-	9+	9+	1500	1	*
997·2	+4	NW	4	ir.	51	85	8	6	2	-	4·6	10	1500	1	*
997.7	0	WNW	4	c	55	95	7	5	2	-	7·8	10	1500	0	2
993·3	-12	WNW	3	rr	54	95	6	6	-	-	10	10	1500	1	1
995.9	-2	SE	1	r	51	85	5	3	-	-	10	10	220	1	*
993.4	+4	W'N	3	rr	54	95	6	6	2	-	7·8	10	1500	1	1
992·8	-6	NW	2	rr	53	95	6	5	-	-	10	10	1500	1	2
994.6	-10	SE	1	f	55	95	2	5	-	-	10	10	<150	10	*
1004.4	+10	W	4	c	55	85	9	8	-	-	9+	9+	450	0	3
999.8	+4	NW	5	c	66	85	8	8	6	2	4·6	7·8	2500	0	3
1001.0	+6	SW'W	2	c	54	85	8	5	7	1	4·6	9	1500	1	*
1000.1	+6	WNW	1	p.	54	95	7	5	-	-	7·8	7·8	1500	1	0
1003.5	+12	SSW	1	c	53	95	8	5	-	-	9+	9+	2500	1	*
1007.7	+20	NWN	4	c/pr	55	85	8	8	-	-	9	9	1500	1	3
1005.4	+10	N	3	c	55	85	8	5	-	9	4·6	7·8	2500	0	2

PAST 24 HOURS.

Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 26th Hrs. (36)
64	55	52	3	5	0.3
63	54	54	2	12	0.2
63	51	47	3	9	0.5
62	50	48	4	7	0·0
62	50	48	4	9	*
60	56	55	6	4	0.0
62	57	*	4	2	*
61	55	56	5	2	0.7
65	54	54	5	8	0.8
64	58	55	4	8	3.3
69	55	51	3	12	4.5
69	52	51	0.2	1	4.9
*	*	*	*	*	*
64	51	49	Tr	0.6	4.2
61	50	46	6	2	*
61	49	47	5	4	2.5
62	52	49	1	0.5	1.1
61	56	*	5	1	*
62	55	51	3	1	0.0
*	*	*	-	-	1.3
64	54	51	-	4	2.2
62	54	53	-	Tr	7.2
68	52	49	-	-	4.5
69	55	*	0.1	0.2	3.3
(56)	49	49	4	16	0.0
57	53	53	2	6	0.0
56	52	*	4	9	*
60	52	*	-	1	0.0
59	51	51	3	5	0.0
61	53	52	10	20	0.0
67	52	49	-	2	3.4
65	48	46	-	1	0.5
60	53	50	-	-	6.9
58	53	*	0.1	5	0.0

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 28th July, 1931.

No. 25,450

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1005·1	+6	WSW	4	c	66	55	8	2	-	6	4·6	7·8	4000
	Croydon	1003·3	+10	W'S	4	c	65	65	8	8	9	9	7·8	9	2500
	S. Farnborough	1005·2	+6	SW'W	4	c	68	55	8	2	8	2	7·8	9	2500
	Winchester	1006·3	+6	W	4	c/pr.	64	65	8	8	4	9	4·6	7·8	2500
	Boscombe Down	1006·0	+6	W	4	c	64	65	8	7	3	-	4·6	7·8	2500
	Calshot, S'thmtn	1007·0	+12	WSW	4	pr	58	85	8	9	4	3	7·8	9+	1500
	Dungeness	*	*	SW	5	c	*	*	7	2	7	*	4·6	7·8	2500
	Lympne	1005·6	+10	SW'W	5	c/pr	62	75	9	8	-	-	7·8	7·8	2500
2	Shoeburyness	1004·8	+10	SW'W	4	c	64	65	7	2	7	-	4·6	7·8	4000
	Felixstowe	1004·4	+2	SW'S	4	c	62	65	8	3	3	-	4·6	7·8	1500
	Gorleston	1002·4	+8	SW'W	3	c	61	95	7	8	X9	-	4·6	7·8	2500
	Cranwell	1002·1	+8	WSW	4	c	63	65	8	8	3	1	4·6	7·8	2500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1004·4	+8	WNW	4	c	59	65	8	8	-	8	7·8	9	2500
	Upper Heyford	1004·5	+10	WSW	4	c/jp	63	75	8	8	7	-	4·6	7·8	2500
	Leafield	1004·8	+10	WSW	4	pr	57	85	8	9	7	-	7·8	9+	1500
4	Ross-on-Wye	1005·6	+6	W'N	4	c	61	65	9	9	6	3	7·8	9	4000
5	Portland Bill	1007·2	+4	SW'W	5	bc	60	85	8	8	6	-	4·6	4·6	2500
	Plymouth	1007·9	+6	WSW	4	bc/pr	60	85	8	8	-	-	4·6	4·6	2500
	Falmouth	1009·5	+6	WNW	5	cq	60	85	8	3	3	-	4·6	7·8	4000
	Scilly (St. Mary's)	1010·1	+14	NW'W	5	bc	62	85	8	2	-	1	2·3	2·3	4000
	Guernsey	1010·0	+12	WSW	5	bc	64	75	8	8	4	-	4·6	4·6	2500
6	Pembroke	1006·4	+10	W	3	bc	59	85	8	1	6	1	2·3	4·6	2500
7	Holyhead	1004·6	+10	W'S	5	c	60	75	8	8	-	3	7·8	9	7200
	Chester (Sealand)	1003·5	+18	W'N	4	c	60	65	7	8	9	-	7·8	7·8	2500
8	L'pool (Bidston)	1003·1	+10	WNW	5	c	60	75	9	1	-	9	4·6	7·8	4000
9	Harrogate	1000·6	+14	SW'S	4	c	62	65	9	3	4	1	2·3	7·8	2500
10	Spurn Head	999·8	+4	WNW	5	c	61	95	6	3	3	-	4·6	9+	2500
	Tynemouth	997·1	+8	W	2	c	62	65	7	2	-	-	7·8	7·8	2500
11	Inchkeith	996·2	0	SSW	3	c	57	95	8	7	6	-	7·8	9	1500
	Leuchars	996·1	+6	W	4	pr.	59	85	8	3	8	-	7·8	9	1500
12	Renfrew	998·4	+4	W	4	ir.	58	85	7	9	1	-	9	10	1500
	Eskdalemuir	999·0	+10	W'N	4	c	56	75	8	5	-	-	10	10	2500
13a	Tiree	997·7	0	WN	4	rr	54	95	6	6	2	-	7·8	10	800
13b	Stornoway	992·2	-4	NNW	3	c	57	95	8	3	2	-	7·8	9	1500
15	Dalwhinnie	994·9	+2	SE	2	r	54	85	6	3	4	-	7·8	10	450
	Aberdeen	994·1	+2	WNW	3	c	65	55	8	2	3	-	4·6	7·8	2500
	Wick	992·7	0	SE	2	c	56	95	7	8	7	1	4·6	7·8	2500
16	Lerwick	995·7	+2	SE	2	c	58	95	6	5	3	1	4·6	7·8	800
17	Blacksod Point	1006·8	+10	WNW	6	c	58	75	8	5	-	-	9+	9+	450
18	Malin Head	1001·1	+10	W'N	5	ir.	56	95	7	9	1	-	7·8	10	1500
	Aldergrove	1001·4	+2	WSW	4	c/pr	61	75	9	8	-	3	4·6	9	800
	Donaghadee	1000·8	+2	WNW	3	pr.	60	75	7	5	2	-	7·8	9	2500
19	Birr Castle	1005·9	+10	NW	3	c/pr	57	85	8	8	4	-	4·6	9	2500
20	Valentia Obsy.	1011·5	+18	WNW	5	c	60	85	8	8	2	-	9	9+	1500
	Roches Point	1008·2	+12	N	5	bc	59	85	9	6	-	9	4·6	4·6	1500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. ·mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1006·8	+10	WSW	2	bc	62	65	8	9	3	3	2·3	4·6	2500	1	*
	Croydon	1007·0	+16	SW'W	3	c/r	57	95	8	9	7	-	4·6	7·8	1500	1	*
	S. Farnborough	1006·8	+14	WSW	3	PR	58	85	8	9	8	-	9+	9+	1500	1	*
	Winchester	1007·5	+8	W'S	4	c	60	75	8	8	-	1	2·3	7·8	2500	1	*
	Boscombe Down	1007·4	+10	W	4	c	60	75	8	2	-	2	4·6	7·8	4000	0	
	Calshot, S'thmtn	1008·0	+6	SW	3	c/pr	58	85	8	8	4	3	7·8	9	1500	1	1
	Dungeness	*	*	SW	5	c	*	*	7	2	7	*	4·6	7·8	1500	*	13
	Lympne	1007·1	+10	SW'W	5	c	60	75	9	2	3	-	9	9+	2500	1	*
2	Shoeburyness	1007·0	+20	SW	2	ir	57	95	7	3	9	-	7·8	9	1500	1	*
	Felixstowe	1005·4	+6	SSW	3	bc	62	75	8	8	-	1	4·6	4·6	4000	1	2
	Gorleston	1004·1	+6	SW	2	bc	61	75	7	8	5	-	2·3	4·6	2500	1	2
	Cranwell	1004·0	+10	W	3	c	60	65	8	5	3	-	4·6	7·8	2500	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1005·6	+8	W	5	bc	60	55	8	2	6	-	2·3	4·6	2500	1	*
	Upper Heyford	1006·1	+10	WSW	4	c	61	75	8	8	3	-	4·6	7·8	2500	1	*
	Leafield	1004·9	+6	W'S	3	bc	60	75	9	2	3	3	1	2·3	4000	1	*
4	Ross-on-Wye	1006·5	+10	W'N	3	c	61	65	9	8	6	-	4·6	7·8	4000	1	*
5	Portland Bill	1008·1	+8	WSW	5	bc	59	85	8	8	6	-	4·6	4·6	2500	0	5
	Plymouth	1010·3	+14	NW	5	bc	60	75	9	9	-	1	4·6	4·6	2500	1	3
	Falmouth	1012·0	+8	WNW	5	bcq	61	85	8	2	3	-	2·3	4·6	4000	0	3
	Scilly (St. Mary's)	1012·2	+10	NW'W	5	bc	60	85	7	1	-	1	2·3	2·3	4000	0	3
	Guernsey	1011·1	+6	W	6	bc	61	75	7	5	-	-	4·6	4·6	4000	1	4
6	Pembroke	1007·8	+10	W	3	c	59	75	8	2	4	1	4·6	7·8	2500	0	2
7	Holyhead	1005·6	+6	W	5	pr.	59	75	8	3	-	3	9+	9+	2500	0	2
	Chester (Sealand)	1004·5	+6	W'N	4	c	61	65	8	8	-	1	9	9	2500	0	*
8	L'pool (Bidston)	1003·7	+2	W	6	cq	60	65	9	8	3	8	7·8	9	4000	0	
9	Harrogate	1002·2	+6	SSW	3	c	57	75	9	8	4	9	4·6	7·8	4000	1	*
10	Spurn Head	1002·3	+2	NW'W	5	c	61	65	7	4	3	1	4·6	7·8	4000	0	4
	Tynemouth	999·5	+6	W	4	bc	61	65	7	2	-	-	4·6	4·6	2500	0	1
11	Inchkeith	995·8	-2	WSW	4	c	56	85	8	5	1	-	4·6	9	2500	0	2
	Leuchars	996·0	0	WSW	4	cjp	59	75	8	9	9	8	4·6	9	1500	1	*
12	Renfrew	998·3	-2	W	4	ir.	55	85	7	6	-	-	10	10	800	1	*
	Eskdalemuir	999·2	0	W	5	ir	54	85	6	6	2	-	7·8	10	800	1	*
13a	Tiree	998·0	+4	W'N	6	rr	54	95	6	6	-	-	10	10	800	1	4
13b	Stornoway	994·8	+12	NNW	2	c	57	95	8	8	2	9	4·6	9+	1500	1	1
15	Dalwhinnie	994·6	-6	S	1	c	53	85	6	3	5	-	4·6	10	800	1	*
	Aberdeen	993·9	-4	SSW	2	c/pr	59	85	8	8	4	3	7·8	9	2500	1	1
	Wick	993·3	0	-	0	c	58	85	8	8	7	1	4·6	7·8	1500	0	2
16	Lerwick	994·8	-4	NE	1	r.r.	54	95	5	6	-	-	10	10	220	1	*
17	Blacksod Point	1009·6	+8	WNW	6	c	59	75	7	8	-	-	7·8	7·8	800	0	4
18	Malin Head	1002·7	+8	W'N	5	c	56	95	7	8	1	-	7·8	10	2500	0	4
	Aldergrove	1003·5	+18	W'N	4	c	56	75	8	5	2	-	7·8	9+	1500	1	*
	Donaghadee	1003·0	+8	NW	2	c	57	75	7	5	-	-	7·8	7·8	2500	0	0
19	Birr Castle	1008·2	+18	WNW	3	c	59	75	8	8	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1013·7	+14	WNW	4	c	59	85	8	8	3	-	9	9+	1500	1	3
	Roches Point	1010·0	+12	N	5	bc	61	75	9	6	-	9	4·6	4·6	1500	0	4

PAST 24 HOURS.

WEATHER.

7h.–13h. 27th (37)	13h.–18h. 27th (38)	18h. 27th to 1h. 28th (39)	1h.–7h. 28th (40)
cprc	cPp.bc	bbc	bcc
bccpr.	cpr.r.r.	bcbcjw	bwbcc
bccpr.	cbyPR	cb	bwbcc
cpr.	cpr.bc	bcb	c
c	bp	bcb	bbc
cPRm.	cprm	bbc	bbcc
bc	bc	*	bc
bccpr.	cpr	b	bccw
bcm.c	bcctlr	cir.	c
cbcpr	ctbc	bcbw	c
bcprq	ctlpr	bc	bccpr
pr.c	cy.	cpr.	cpr
*	*	*	bcc
cpr	cbc	bc	bcc
crpbc	crbc	bcb	cbcw
cp. PRH	cp.bc	bc	bc
cp	pbcv	cvbccp.	cp.bcc
cbc	bcPRbc	bc	bcc
pRhbc	bccPRv	bcb	bbcc
bcPq	bcp.q	bcq	bcq
cpbc	bc	bcc	cbcc
bc	coPR	bcbbc	bc
cbc	bcc	cbc,c	cq
c	pr.pr.h	pr.cbc	bcc
PRqc	jpc	cd.r.	cq.ir.
cv	cvq	vcq.oq	oq.q
cbc	bc	bccp	cp
cpRc	bc	bc	cq.r.
	cbcq	bcoirq	oirbcq
c	c	c	c
ir.prc	bccpr.	cr.	cr.cv
cpr.	r.r.ir.	rr.ir.	cir.c
cir.c	cpRir	crr	cid.
or.r.	oRR	oRR	o
c	c	cid	op.d
r	r	*	g
rrcbc	bcycpr	c cR	cir.
orrFfc	c	c	r.r
offe.cm.	cm.or.n.m	corom	om.
cq	prcq	prcq	prcq
c	cir.c	cp.c	cd.m.
cPRv	p.cr.	cr.c	cir.
cpr.	cpr.c	c	cq
cpr	cp.c	c	c
bccp.c	cp.bcc	cp.c	cp p.c
cpbcv	bcpbcv	bcvc	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, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 25, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

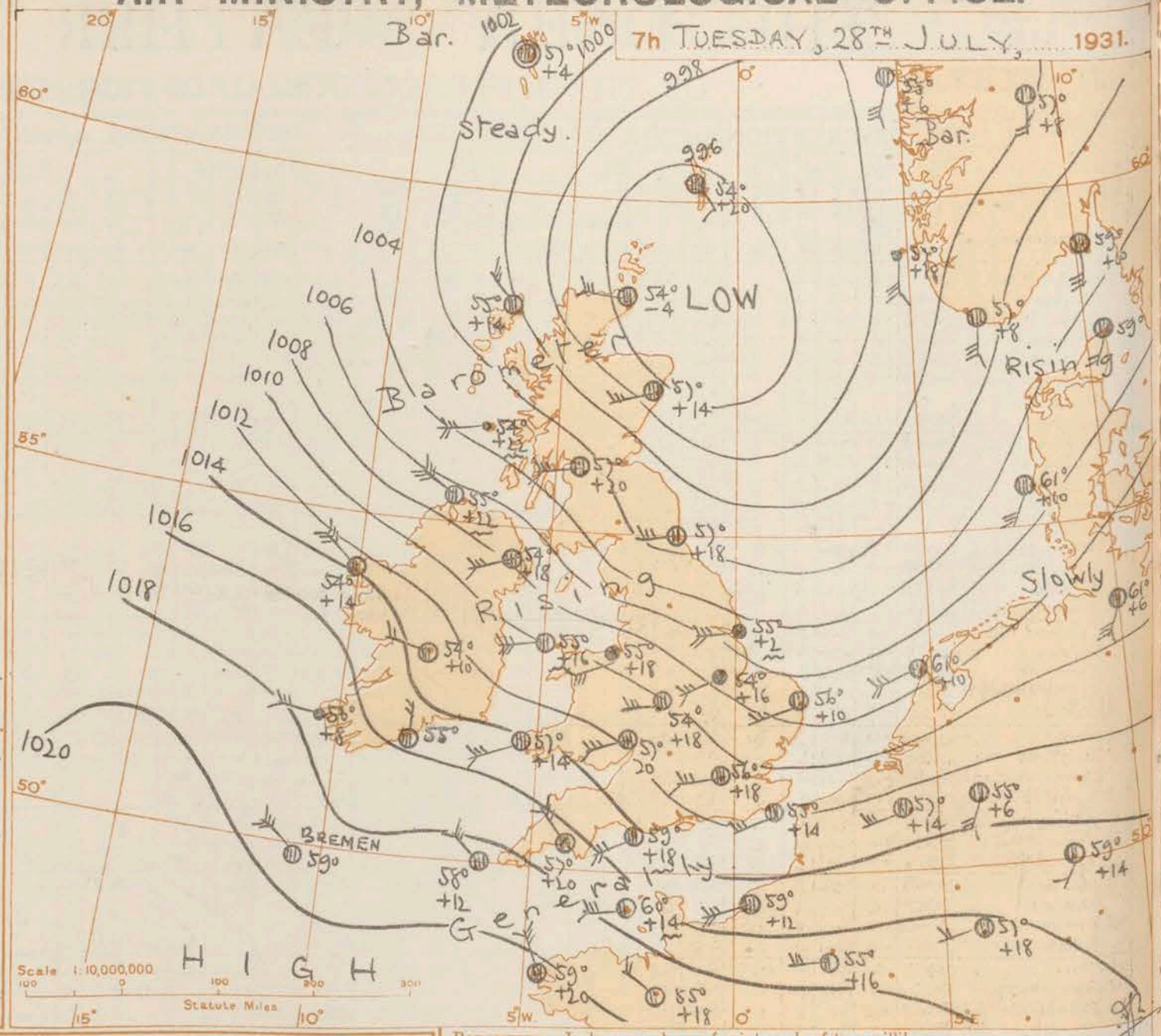
REPORTS from HEALTH RESORTS for 27th JULY, 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 26th to 9h. 27th	Temperature. Max. 9h.—17h. 27th	Rainfall. Night. 17h. 26th to 9h. 27th	Rainfall. Day. 9h.—17h. 27th	Sunshine. Sunrise to 17h. 27th	Sunshine. Sunrise to Sunset 26th
1	Tunbridge W.	opoc	bbcb	54	65	3	0·3	7·7	0·0
	Bournemouth	cboc	bcfc	52	65	5	2	6·0	0·0
	Ventnor ...	odcb	obc	53	62	1	-	10·5	0·0
	Southsea ...	bcP	bccp	54	63	5	14	6·2	0·0
	Bognor Regis	bcPR	PRbc	54	67	1	11	8·1	0·3
	Littlehampton	bc	bcP	53	64	1	8	6·7	0·1
	Worthing ...	bcor	coRc	54	64	2	5	6·7	0·2
	Brighton ...	bcpbc	pcpbc	54	64	2	3	7·6	0·0
	Eastbourne†	cpcbc	bccpbc	56	64	1	1	10·0	0·4
	Hastings† ...	corbc	bbcc	55	65	2	2	8·6	0·2
	Folkestone ...	rbc	bccp	57	66	2	1	8·2	1·0
	Dover... ...	bccp	cpbc	57	64	1	0·4	7·8	0·6
	Deal	cbbc	pb	57	67	2	0·5	8·3	1·5
	Ramsgate ...	bcp	bcrb	56	66	3	3	8·1	0·3
	Margate ...	bcp	bcp	56	67	1	5	7·5	0·9
2	Southend ...	bc	bctlr	54	69	7	4	6·0	0·7
	Maldon ...	bcctlr	bc	55	68	8	5	5·8	1·2
	Clacton-on-Sea	bcpc	cotlRbc	55	67	8	3	6·1	1·5
	Dovercourt ...								
	Lowestoft ...	oirc	cprbc	55	64	12	2	3·5	3·8
	Skegness ...	om.	Ocm.	54	66	0·6	-	3·0	4·6
	Mablethorpe	oc	bccm.	54	66	1	-	3·0	5·4
	Cleethorpes...	oco	cbc	54	67	3	-	4·0	4·7
3	Leamington S.	cbcbr	bcpr	51	65	2	0·3	5·5	4·0
4	Cheltenham†	cipc	pbc	51	65	3	1	3·7	0·9
5	Bath	cbc	pbbc	52	66	3	Trace	7·0	0·3
	Weymouth ...	cbbc	pob	55	66	1	Trace	9·5	0·0
	Jersey ...	rcbc	bc	58	64	0·3	-	10·8	1·0
	Torquay ...	bcpbc	bcRpqv	54	64	1	3	6·9	0·3
	Penzance ...	bpr	bpr	54	64	0·3	0·3	10·3	0·1
	St. Ives ...	b	b	54	62	trace	0·3	11·4	0·6
	Bude	cbcpbc	bcbc	55	62	7	0·4	7·7	0·0
	Ilfracombe ...	cP	bcb	55	62	0·2	5	6·5	0·5
6	Aberystwyth	cpqc	cbcc	56	61	trace	-	5·4	3·3
7	Llandudno ...	cbc	cbcb.	55	63	-	Trace	3·5	2·0
	Colwyn Bay...	cbc	bbcbc	54	64	trace	-	3·7	2·0
	Rhyl								
8	Wallasey ...	bc	bbcbc	56	64	-	-	5·8	7·5
	Southport‖ ...	copc	bcco	56	63	-	Trace	6·3	7·9
	Blackpool ...	c	bccp	56	63	-	Trace	6·6	6·6
	Morecambe ...	cbbcb	cbcbc	53	63	0·3	Trace	4·2	5·2
9	Ilkley... ...	p	b	51	64	Trace	Trace	6·3	6·5
10	Berwick-on-T.	cbcc	cbc	52	63	7	-	4·4	0·0
11	Dumbar ...	cdm.	cmcbc	52	62	8	Trace	2·1	0·0
12	Douglas ...	cdcdc	bcirc	52	63	trace	0·3	4·0	4·1

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h TUESDAY, 28TH JULY, 1931.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, -⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○Clear sky. ◔Sky less than 1/10 clouded. ◑Sky 1/10 to 5/10 clouded. ◕Sky 5/10 to 9/10 clouded. ●Overcast sky.
●Rain falling. ✳Snow. ▲Hail. ≡Fog. ≡°Mist. ⊤Thunder. ⊤⊤Thunderstorm.
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 July, 1931.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light or moderate westerly winds; mainly fair, possibly local showers; moderate temperature.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Light or moderate westerly winds, backing later; mainly fair but possibly local showers today; cloudy with perhaps light rain or drizzle late tomorrow; moderate temperature.
9. N. Midlands	As 1 - 4.
10. N.E. England 11. S.E. Scotland	Moderate westerly winds; cloudy to variable sky; showers, perhaps local rain at first: rather cool or moderate temperature.
12. S.W. Scotland & Isle of Man	Moderate or fresh westerly winds, backing later; variable sky, showers, cloudy with perhaps light rain or drizzle tomorrow; rather cool to moderate temperature.
13. A. W Scotld. B. N.W Scotland	
14. Mid-Scotland	As 10 - 11.
15. N.E Scotland 16. Orkneys and Shetlands.	Light or moderate variable winds: variable sky: local rain or showers; rather cool.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind westerly, backing southwest or south, moderate or fresh; cloudy: showers, more general rain later; moderate temperature.

H.M. Stationery Office Press, Kingsway W.C.2

SCR

GENERAL INFERENCE.

A ridge of high pressure off Western Ireland will give way quickly with the advance of a fresh Atlantic depression. An early renewal of unsettled conditions will occur in the West probably extending eastwards tomorrow. Over most of England and Scotland weather today will be mainly fair apart from local showers.

FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 0920 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

Morning of
TUESDAY
July 28th
1931.

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

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 28th July 1931.

No. 75,450

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1009.4	+10	WSW	3	b	54	95	8	-	3	-	0	1	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1010.9	+3	WSW	3	bc	54	95	8	5	-	-	2-3	2-3	2600
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1009.8	+6	WN	3	b	53	95	8	-	-	8	0	1	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1006.0	-4	SWW	3	bc	56	95	7	-	3	-	0	4-6	-
	Cranwell ...	240	1006.2	+8	WSW	4	c	54	95	7	5	3	-	7-8	9+	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1011.6	+10	W'S	5	bc	59	75	8	4	4	9	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1015.4	+8	W	4	q	56	95	8	8	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	163	1016.0	+12	NW	5	c	56	95	7	2	7	-	2-3	7-8	4000
	Guernsey ...	175	1014.2	+14	W	4	bc	56	95	7	1	-	-	4-6	4-6	1500
6	Pembroke ...	142	1011.7	+12	WSW	4	c	57	85	8	5	7	-	4-6	9	1500
7	Holyhead ...	26	1008.4	+10	W	6	c	55	85	7	4	8	3	4-6	7-8	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*.	*	*	*	*	*	*
10	Spurn Head ...	29	1003.3	+2	W	5	bc	56	85	7	4	3	-	4-6	4-6	4000
	Tynemouth ...	87	9991	-4	W	5	ir	55	85	7	6	-	-	10	10	1500
11	Inchkeith ...	190	9975	+8	WSW	4	c	54	95	8	5	3	-	7-8	9	4000
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	9975	+12	WNW	1	d	55	95	7	8	2	-	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	991.1	+4	NW	3	c	53	95	8	8	6	2	4-6	9	2500
16	Lerwick ...	54	9928	-10	NE	4	o	54	95	4	5	-	-	10	10	4150
17	Blacksod Point	18	1011.7	+14	WNW	7	q	56	85	7	8	-	-	9+	9+	450
18	Malin Head ...	52	1004.3	+6	WNW	6	c	55	95	7	8	7	-	4-6	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1016.2	+14	W	4	ir.	56	85	8	9	-	-	9	9	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
1011.8	+16	WSW	3	c	57	75	8	5	3	-	4-6	7-8	4000	1	*
1011.9	+18	W	4	c	56	85	7	4	-	-	9	9	5700	1	*
1012.3	+18	WSW	4	c	57	85	8	5	-	-	10	10	4000	1	*
1013.3	+16	W'S	3	c	55	85	8	5	-	-	9+	9+	1500	1	*
1012.7	+20	WNW	4	c	55	85	8	5	-	1	7-8	7-8	4000	0	*
1013.2	+22	WSW	4	c	56	85	8	5	3	-	4-6	7-8	1500	0	1
*	*	W	3	c	*	*	7	7	7	*	4-6	7-8	4000	*	2
1011.9	+18	W'S	3	c	55	95	8	5	3	-	4-6	9	7200	0	*
1011.3	+26	WSW	4	c	57	65	6	5	7	-	4-6	7-8	5700	1	*
1010.1	+12	WSW	4	c	57	85	8	7	7	4	2-3	7-8	5700	0	2
1007.6	+10	W'S	3	c	56	85	7	-	7	-	0	7-8	-	0	2
1007.9	+16	SW'W	4	pr	54	85	8	6	-	-	10	10	1500	0	*
1009.9	+16	WSW	4	c	56	85	7	5	-	9	4-6	7-8	4000	*	*
1010.7	+18	W	3	c	54	75	8	5	3	-	7-8	9	800	1	*
1011.3	+16	WSW	4	c	57	75	8	5	3	1	4-6	7-8	1500	1	*
1011.1	+20	W	5	bc	55	75	8	5	3	-	4-6	4-6	4000	1	*
1011.9	+20	W	4	c	57	75	8	8	-	1	7-8	9	4000	1	*
1013.7	+18	W'S	5	c	59	75	8	8	4	2	4-6	7-8	2500	0	5
1016.5	+20	NW	4	c	57	85	8	5	-	-	9+	9+	2500	1	2
1018.0	+12	W'N	4	bc	57	85	8	2	3	-	4-6	4-6	4000	0	2
1019.0	+12	NW	4	c	58	85	7	8	9	-	4-6	7-8	4000	0	3
1017.0	+14	W	4	bc	60	75	7	8	6	-	4-6	4-6	2500	0	4
1014.2	+14	WSW	4	q	57	85	7	4	3	-	2-3	7-8	2500	0	3
1010.4	+16	W	6	q	55	85	8	5	3	1	2-3	9	800	0	4
1009.4	+18	W	4	ir.	55	85	7	6	-	-	10	10	1500	1	*
1008.0	+14	W'N	7	r.r.	54	85	7	6	-	-	10	10	1500	1	*
1004.7	+10	SW	4	ir.	54	85	9	6	2	-	9	10	2500	1	*
1004.0	+2	W	5	r.r.	55	85	6	3	2	-	7-8	9+	4000	1	4
1001.1	+18	W	3	bc	57	85	7	9	-	-	4-6	4-6	1500	0	1
1000.1	+14	SW	4	c	54	95	8	5	4	-	4-6	7-8	1500	0	2
999.6	+14	W	3	c	57	85	9	4	6	-	4-6	9	4000	1	*
1002.2	+20	W	4	c	57	85	8	5	-	-	9+	9+	1500	1	*
1001.9	+8	WNW	5	id.	53	85	7	5	2	-	9+	10	800	1	*
1003.5	+22	W'N	5	rr	54	95	6	6	2	-	7-8	10	800	1	4
1000.2	+14	NW	3	c	55	95	7	9	-	-	9+	9+	800	1	2
998.6	+16	SE	1	c	53	85	5	4	2	-	7-8	10	220	1	*
997.6	+14	W	3	c/r	57	85	8	6	7	-	4-6	10	1500	1	1
994.7	-4	WNW	4	c/r	54	95	7	9	-	-	10	10	1500	1	3
995.9	+20	SE	1	o	54	95	7	5	-	-	10	10	220	0	*
1014.2	+14	NW	6	c	54	95	8	8	-	-	10	10	2500	0	3
1007.3	+22	NW'W	6	c/d.	55	95	7	6	2	-	4-6	10	1500	0	5
1008.5	+18	W'S	4	c	54	85	8	5	-	8	9+	10	800	1	*
1006.4	+16	NW	5	q	54	85	7	5	-	-	9+	9+	1500	0	3
1013.4	+10	WNW	2	c	54	85	8	5	1	-	7-8	9+	2500	0	*
1017.8	+8	W'N	4	c/pr	56	85	8	5	-	-	9+	9+	1500	1	3
1016.6	+14	N	2	c	55	85	8	5	-	-	7-8	7-8	2500	0	2

PAST 24 HOURS.

Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 27th Hrs. (36)
67	53	49	1	-	7.0
65	53	51	2	Tr.	7.0
70	51	43	3	-	7.8
65	50	47	Tr.	-	7.3
65	50	45	0.3	-	*
64	53	52	11	1	4.7
61	55	*	1	-	*
64	50	48	1	-	8.8
70	53	51	5	Tr.	5.7
63	54	51	1	-	6.7
64	54	50	3	0.1	4.2
66	53	61	Tr.	Tr.	5.6
*	*	*	*	*	*
63	53	50	0.6	-	5.8
65	51	46	5	-	*
62	50	46	2	-	3.5
66	53	51	1	0.4	7.0
60	57	*	Tr.	-	*
62	56	53	3	-	10.2
63	55	*	1	-	12.6
62	55	*	0.5	-	13.2
65	56	53	1	-	44.0
60	55	*	-	-	11.1
62	54	51	0.2	Tr.	4.2
62	55	50	3	0.1	2.2
61	53	62	-	0.1	7.1
63	52	50	-	0.6	4.4
63	55	*	2	1	4.8
59	50	50	3	10	1.0
57.5	53	53	11	6	0.0
59.5	54	*	0.6	0.4	0.2
(59)	52	48	4	1	0.0
65	54	53	1	1	0.9
59	53	*	0.2	2	*
59	53	*	2	-	0.3
61	53	*	0.1	1	*
58	53	*	1	0.3	0.8
63	52	48	1	0.1	2.4
63	53	*	2	-	*
61	62	49	0.5	-	4.8
61	53	51	1	1	6.1
61.3	53	*	1	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cprc	cPp. bc	bbcc	67	53	49	1	-	7.0	*	*	8
Croydon	217	bccpr	cpr r.r.	bcpr bcc	65	53	51	2	Tr.	7.0	*	*	8
Greenwich (Royal Observatory) ...	149	cpc	cp. bc	bc	72	52	46	0.3	-	6.2	65	68	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	6.6	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	68	54	51	2		7.6	61	92	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	5.6	*	*	*
Camden Square	110	cpc	ctlcp	*	66	53	51	0.5		*	*	71	*
Kensington	80	c bc	bcpt	*	67	54	48	3	-	7.0	At 18h.	75	*
Hampstead Observatory	450	bcp	ortl bcb	*	64	50	44	1	0.1	6.2	66	77	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.6	8h.-9h. 27th	Nil	20h. 27th to 5h. 28th

Kew Observatory. Max.	Time.	Min.	Time.
0.1	15h. 27th	<0.1	0h. to 5h. 28th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 27th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 28th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1010.5	WNW	4	bc	66	1016.1	W	3	c	55
Brussels	1008.3	W	4	b	64	1012.2	WSW	3	c	57
Berlin	1006.6	W'N	3	c	70	1009.9	W	1	c	63
Zürich	1011.2	WSW	!	rr	64	1014.7	N	1	c/r	57
Rome	1011.5	WSW	4	b	82	1011.8	SSE	1	bc	75

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
70	52	Tr.	-
68	52	Tr.	-
82	59	-	1
81	57	2	19
93	63	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† The observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 29th July, 1931.

No. 25,451

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

Dist.	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)	Sunshine Hrs. (36)
1	London (Kew)	1014·0	+12	W	4	c	63	55	8	8	7	–	7-8	9+	4000	7·0
	Croydon	1013·8	+6	W'N	4	c	61	65	8	7	7	–	7-8	9	2500	7·0
	S. Farnborough	1014·4	+10	W	4	c	68	55	8	8	–	–	9	9	2500	7·8
	Winchester	1015·2	+12	WNW	5	c	65	55	8	8	–	9	7-8	9	2500	7·3
	Boscombe Down	1015·0	+14	WNW	5	c	63	65	8	1	3	–	4-6	7-8	4000	*
	Calshot, S'thmtn	1015·8	+10	WNW	4	c	63	65	8	8	4	3	7-8	9	2500	4·7
	Dungeness	*	*	WSW	5	c	*	*	7	8	7	*	7-8	9	2500	*
	Lympne	1013·8	+10	WSW	4	c	63	55	9	7	6	–	4-6	7-8	4000	8·8
2	Shoeburyness	1012·9	+6	W	4	c	63	65	8	5	8	–	7-8	9+	2500	5·7
	Felixstowe	1012·4	+14	W'S	4	c	63	65	8	7	2	–	7-8	10	4000	6·7
	Gorleston	1009·7	+12	W'N	4	c	61	85	7	5	–	–	9+	9+	2500	4·2
	Cranwell	1010·5	+18	W	5	c	56	85	7	5	–	–	10	10	1500	5·6
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1013·5	+16	W	4	c	57	65	8	6	7	–	4-6	10	1500	5·8
	Upper Heyford	1013·8	+16	W	5	c	63	65	8	8	7	–	7-8	7-8	2500	*
	Leafield	1013·4	+10	W'N	6	c	60	65	8	8	7	–	7-8	9	4000	3·5
4	Ross-on-Wye	1014·8	+10	W	4	c	61	65	9	8	–	–	9+	9+	4000	7·0
5	Portland Bill	1016·9	+10	W	5	c	62	65	8	8	4	9	4-6	7-8	2500	*
	Plymouth	1019·1	+16	WNW	4	c	61	75	9	9	3	–	7-8	9+	2500	10·2
	Falmouth	1020·0	+12	WNW	5	c	61	85	8	2	7	–	2-3	7-8	4000	12·6
	Scilly (St. Mary's)	1020·4	+8	WNW	5	c	60	85	8	8	1	–	4-6	7-8	4000	13·2
	Guernsey	1019·7	+12	W	5	c	64	75	7	8	4	–	4-6	7-8	2500	14·0
6	Pembroke	1017·1	+14	W	4	c	58	75	8	8	6	–	4-6	7-8	2500	11·1
7	Holyhead	1013·0	+14	W	6	q	60	75	8	4	3	8	7-8	9+	2500	4·2
	Chester (Sealand)	1012·2	+18	WNW	6	q	61	65	8	5	2	–	7-8	9+	2500	2·2
8	L'pool (Bidston)	1011·3	+12	W'N	7	q	57	65	8	5	7	–	4-6	10	2500	7·1
9	Harrogate	1007·7	+30	SW	5	c	55	85	9	6	2	–	9	9+	2500	4·4
10	Spurn Head	1007·0	+6	WNW	6	q	59	75	6	5	7	–	7-8	10	4000	4·8
	Tynemouth	1003·5	+12	W	4	c	60	75	7	6	–	–	9	9	1500	*
11	Inchkeith	1002·6	+12	SW	4	c	58	85	8	7	4	–	4-6	7-8	2500	1·5
	Leuchars	1001·7	+10	W	4	c/pr	64	65	9	8	6	3	4-6	9	1500	2·7
12	Renfrew	1006·6	+16	WNW	4	ir$_o$	57	85	7	8	–	–	10	10	1500	0·1
	Eskdalemuir	1005·5	+16	NW	6	c/pr	54	85	8	5	–	–	9+	9+	1500	1·0
13A	Tiree	1008·1	+20	W'N	5	i d$_o$	55	95	7	6	2	–	4-6	9+	800	0·0
13B	Stornoway	1004·1	+18	NW	3	d$_o$ r$_o$	56	95	8	9	2	–	7-8	10	1500	0·2
15	Dalwhinnie	1002·7	+6	N	1	c	58	[illegible]	6	4	2	–	4-6	10	450	0·0
	Aberdeen	999·9	+12	NW'N	4	ir	57	85	7	6	7	–	9	10	1500	0·9
	Wick	999·6	+24	WNW	4	c	57	95	8	9	–	–	10	10	1500	*
16	Lerwick	998·4	+18	NNE	1	c	56	95	6	5	3	–	7-8	7-8	800	0·3
17	Blacksod Point	1016·2	+16	WNW	6	c	59	75	8	5	–	–	10	10	1500	*
18	Malin Head	1011·2	+16	NW	6	c	58	85	7	2	9	6	2-3	9	2500	0·8
	Aldergrove	1012·0	+20	W	4	pr	57	75	8	5	7	1	7-8	9+	800	2·4
	Donaghadee	1010·3	+16	WNW	3	c	62	75	8	5	2	–	7-8	7-8	2500	*
19	Birr Castle	1015·8	+12	WNW	3	c	60	65	8	5	2	–	7-8	9+	2500	4·8
20	Valentia Obsy.	1019·9	+10	W'N	4	c	60	75	8	8	3	–	7-8	9	1500	6·1
	Roches Point	1017·4	+6	NW	4	bc	61	75	9	6	–	–	4-6	4-6	2500	*

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

Dist.	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)	1015·9	+12	W'N	3	c	61	65	8	4	7	–	2-3	9+	4000	1	*
	Croydon	1015·9	+14	W	4	c	61	75	7	7	7	–	2-3	9+	4000	0	*
	S. Farnborough	1016·3	+14	W'S	3	c	59	75	8	1	7	–	Tr.	9+	2500	1	*
	Winchester	1017·0	+8	WNW	4	c	59	65	8	5	7	–	1	9+	2500	1	*
	Boscombe Down	1016·9	+10	WNW	5	c	58	75	8	5	3	–	1	9	2500	0	*
	Calshot, S'thmtn	1016·8	+8	W	4	c	62	75	8	4	6	–	4-6	9+	4000	0	1
	Dungeness	*	*	SW'W	6	c	*	*	7	8		*	9+	9+	1500	*	4
	Lympne	1015·2	+12	W	4	c	61	65	9	5	–	–	9+	9+	7200	0	*
2	Shoeburyness	1014·6	+8	W'N	4	c	62	65	8	7	7	–	7-8	9+	4000	1	*
	Felixstowe	1014·0	+12	W'S	4	c	62	55	8	5	2	–	7-8	10	4000	0	2
	Gorleston	1011·5	+4	W'S	4	c	61	85	7	8	6	–	4-6	7-8	2500	0	3
	Cranwell	1012·2	+10	W	4	c	59	75	7	7	3	–	4-6	9+	2500	0	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1014·8	+6	W	4	c	57	75	8	5	7	–	2-3	9	2500	1	*
	Upper Heyford	1015·6	+10	W	4	c	57	75	8	5	7	–	4-6	9	4000	0	*
	Leafield	1015·2	+6	W	4	c	58	75	9	7	7	–	1	9+	4000	0	*
4	Ross-on-Wye	1016·0	+4	W	4	c	59	65	8	6	7	–	2-3	9+	2500	1	*
5	Portland Bill	1015·3	+6	WNW	5	c	61	75	8	8	7	9	4-6	7-8	2500	0	4
	Plymouth	1019·1	0	WNW	4	c	60	75	8	7	3	–	2-3	7-8	2500	1	2
	Falmouth	1020·7	+2	WNW	4	bc	61	85	8	1	3	–	2-3	4-6	4000	0	2
	Scilly (St. Mary's)	1020·8	-2	WNW	4	bc	60	85	8	2	1	–	2-3	4-6	2500	0	3
	Guernsey	1021·2	+6	W	5	bc	61	75	7	8	4	–	4-6	4-6	2500	0	4
6	Pembroke	1016·6	-2	W	4	c	58	85	8	8	7	–	4-6	7-8	2500	0	3
7	Holyhead	1014·7	+6	W'S	4	c	59	75	8	5	–	–	9	9	5700	0	3
	Chester (Sealand)	1014·4	+12	W'N	5	q	59	75	8	5	3	–	7-8	9	2500	0	*
8	L'pool (Bidston)	1013·5	+10	WNW	6	q	57	75	8	8	4	–	4-6	7-8	1500	0	*
9	Harrogate	1010·4	+10	SW	5	q	56	75	9	6	7	–	7-8	9+	2500	1	*
10	Spurn Head	1008·6	+4	WNW	6	q	59	85	7	5	1	9	4-6	9	4000	0	4
	Tynemouth	1006·6	+16	W	4	bc	58	75	7	9	–	–	4-6	4-6	2500	0	2
11	Inchkeith	1006·5	+14	SW	4	c	57	85	8	5	4	–	4-6	7-8	2500	0	3
	Leuchars	1005·4	+26	WNW	4	c	62	65	8	8	6	–	7-8	9	1500	1	*
12	Renfrew	1009·5	+14	W	4	c	56	75	97	8	–	–	10	10	1500	1	*
	Eskdalemuir	1008·5	+14	WNW	7	c	53	75	8	5	4	–	9	9+	800	1	4
13A	Tiree	1011·2	+12	W	4	c	56	85	8	5	6	9	4-6	7-8	1500	0	3
13B	Stornoway	1006·9	+8	WNW	3	c	54	95	8	6	2	–	7-8	10	1500	1	3
15	Dalwhinnie	1007·7	+2	N	1	c	54	85	5	4	5	–	7-8	10	450	0	*
	Aberdeen	1003·5	+16	NW	4	ir$_o$	58	85	7	6	7	–	4-6	9+	1500	1	1
	Wick	1002·2	+22	NW	5	d$_o$ d$_o$	54	95	6	6	–	–	10	10	1500	1	3
16	Lerwick	1000·9	+8	–	0	p r$_o$	56	95	7	8	2	–	4-6	10	1500	0	*
17	Blacksod Point	1016·6	-2	SW'W	4	bc	58	75	8	–	5	–	0	4-6	–	0	3
18	Malin Head	1013·8	+8	WNW	5	bc	57	85	8	2	–	9	4-6	4-6	2500	0	4
	Aldergrove	1014·2	+10	W'N	4	c	57	75	9	8	4	1	7-8	9	1500	1	*
	Donaghadee	1013·2	+8	WNW	3	c	59	75	8	5	2	–	4-6	7-8	2500	0	2
19	Birr Castle	1016·6	+4	W	2	c	60	65	8	5	6	–	4-6	7-8	2500	0	*
20	Valentia Obsy.	1020·1	-2	WSW	2	c	58	85	8	8	7	6	4-6	10	1500	0	2
	Roches Point	1018·6	+8	N	3	bc	61	75	9	3	9	9	2-3	4-6	2500	0	2

PAST 24 HOURS.

Dist.	Stations.	Weather. 7h.–13h. 28th (37)	Weather. 13h.–18h. 28th (38)	Weather. 18h. 28th to 1h. 29th (39)	Weather. 1h.–7h. 29th (40)
1	London (Kew)	ccy	cyc	c	cwbcw
	Croydon	c	o	cbcbw	bbcwc
	S. Farnborough	cbccy	yc	cbccw	bcw
	Winchester	c	c	bc	bcwcm$_o$
	Boscombe Down	bcc	c	c	cbcRW
	Calshot, S'thmtn	cp$_o$r	cyc	bcc	cbcw
	Dungeness	bc	o	*	bc
	Lympne	cv	o cv	cbc	bcbw
2	Shoeburyness	cm$_o$c	c	c	bccm$_o$
	Felixstowe	cp$_o$ry	cyq	cbcb	bbc
	Gorleston	cq	cq	cbc	bcb
	Cranwell	cr$_o$c	c	cbcc	cbm$_o$w
3	Cardington	*	*	cbc	bw
	Birmingham	c	c	cbc	bc
	Upper Heyford	bcc	c	cb	bcwm$_o$
	Leafield	bcc	c	cbw	bbc
4	Ross-on-Wye	cc	cy	cbcb	bcc
5	Portland Bill	c	c	c	c
	Plymouth	bcc	c	cp$_o$rbc	bwc
	Falmouth	bccp	cbc	c	bccir$_o$
	Scilly (St. Mary's)	c	cbc	bccbc	bccp$_o$
	Guernsey	bccbc	cbc	bccbc	bcc
6	Pembroke	cbcc	c	bcb	bbc
7	Holyhead	cq	c	cbcb	b$_o$cr$_o$
	Chester (Sealand)	p$_o$cq	cq	cbc	bcr$_o$
8	L'pool (Bidston)	ro$_o$q$_o$c	cq	c	cv
9	Harrogate	c	cq	c	cb
10	Spurn Head	cr$_o$cq	cpr$_o$q	cq	cq$_o$bc
	Tynemouth	bccq	cbcq	bccq	cbc
11	Inchkeith	c	c	c	cir
	Leuchars	cv p$_o$r	cvc	c	cp$_o$r ir$_o$
12	Renfrew	cir$_o$	cr$_o$	c	cm$_o$
	Eskdalemuir	cdcpr	cpr$_o$c	c	co
13A	Tiree	oir	cid$_o$c	cp$_o$	or$_o$r
13B	Stornoway	cid$_o$	cuid	c	cid$_o$
15	Dalwhinnie	c	c	*	c
	Aberdeen	cir	rr cir$_o$	cir$_o$c	c
	Wick	c	od$_o$m$_o$	ocrr	cr$_o$rc
16	Lerwick	om$_o$cm	cm p$_o$r	cp$_o$r$_o$mdd	or$_o$ ir$_o$
17	Blacksod Point	cq	bcc	cq	prcq
18	Malin Head	cbcc	cp$_o$rbcc	bcc	c
	Aldergrove	c	cpr$_o$	cbc	crrm$_o$
	Donaghadee	cp$_o$rc	c	bcc	cp$_o$r
19	Birr Castle	c	c	cbcc	cor$_o$o
20	Valentia Obsy.	cp$_o$c	c	cbcc	crRir$_o$
	Roches Point	cp$_o$bcv	bcv	bcvc	coir

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.
f$_s$, fog over sea (coast station).
f$_g$, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
j$_p$, precipitation within sight of station.
k$_s$, 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).
⊕, Solar halo. ☾, lunar halo.
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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "t r" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

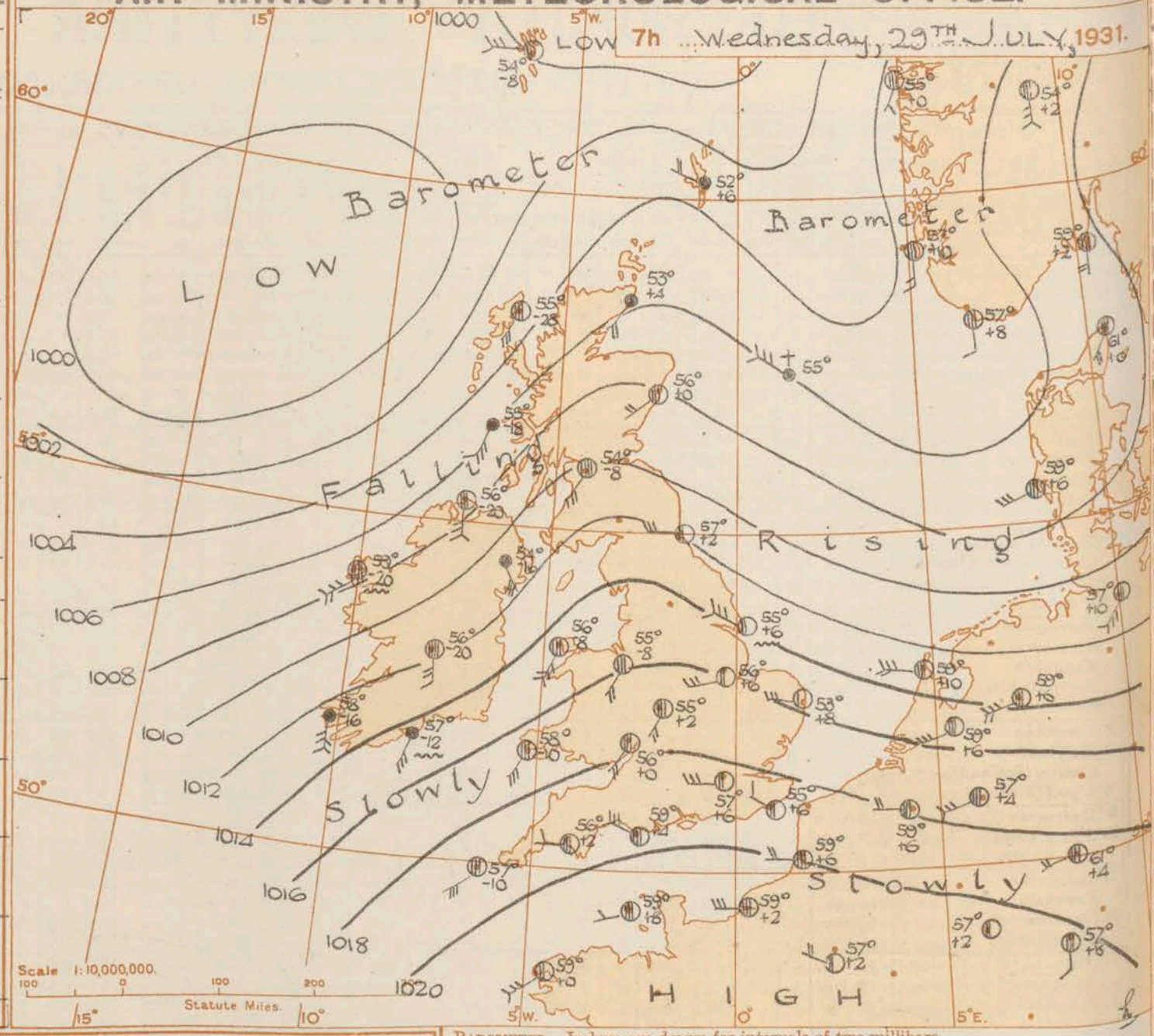
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 28th JULY 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 27th to 9h. 28th	Temperature. Max. 9h.—17h. 28th	Rainfall. Night. 17h. 27th to 9h. 28th	Rainfall. Day. 9h.—17h. 28th	Sunshine. Sunrise to 17h. 28th	Sunshine. Sunrise to Sunset. 27th
1	Tunbridge W.	bc	bcc	49	64	–	–	4.3 ~~5.3~~	9.3
	Bournemouth	cbc	bcc	52	67	–	–	4.9	6.5
	Ventnor ...	pcbc	cbcc	55	64	trace	–	4.5	11.8
	Southsea ...	bc	cbc	55	67	1	–	5.0	6.2
	Bognor Regis	bc	cbc	54	66	–	–	5.2	8.6
	Littlehampton	bc	bcc	52	66	–	–	5.0	8.4
	Worthing ...	bc	bcc	53	67	–	–	5.5	7.5
	Brighton ...	bc	bc	54	65	trace	–	6.0	8.4
	Eastbourne†	cbc	bcco	55	65	–	–	7.5	10.9
	Hastings† ...	bcbc	bcc	51	66	–	–	6.1	9.8
	Folkestone ...	bcc	cbcc	50	67	–	–	5.4	9.9
	Dover... ...	ybcc	cy	53	67	–	–	4.0	7.8
	Deal	cbco	ocb	52	65	0.5	–	3.0	10.4
	Ramsgate ...	bc	bcc	52	65	2	–	3.4	8.6
	Margate ...	bc	bcc	53	67	1	–	4.8	7.7
2	Southend ...	cbc	c	53	65	1	–	3.1	6.7
	Maldon ...	bcc	c	54	65	–	–	1.6	6.3
	Clacton-on-Sea	c	c	54	64	–	–	1.5	7.1
	Dovercourt ...								
	Lowestoft ...	cbcco	cbc	52	61	–	–	1.3	4.1
	Skegness ...	om	om	53	61	trace	–	0.0	3.0
	Mablethorpe	om	m	53	61	1	trace	0.1	3.4
	Cleethorpes ...	oco	or co	54	60	0.6	0.2	0.4	5.2
3	Leamington S.	co	co	54	62	–	–	1.9	7.2
4	Cheltenham†	qcb	cb	53	63	–	trace	0.7	5.0
5	Bath	bcc	cbc	55	63	–	–	4.6	8.9
	Weymouth ...	bbcbc	bvv	56	69	–	–	8.3	11.0
	Jersey ...	bc	bc	58	65	–	–	7.3	13.3
	Torquay ...	bcvbc	bcvvg	55	67	–	–	7.3	8.5
	Penzance ...	cbc	cb	55	65	–	–	4.9	12.5
	St. Ives ...	c	bcPb	55	64	–	0.3	6.1	13.8
	Bude	cbcc	cbcc	57	62	–	–	3.4	9.9
	Ilfracombe ...	cbcbc	bcc	56	62	–	0.2	4.2	9.1
6	Aberystwyth	cb	c	56	60	0.5	–	0.2	5.6
7	Llandudno ...	c	c	55	61	trace	–	1.8	3.9
	Colwyn Bay...	oc	c	54	62	0.3	–	1.0	4.2
	Rhyl								
8	Wallasey ...	oc	cbcc	54	63	1	trace	1.0	6.0
	Southport‖ ...	po	oco	54	61	2	–	1.8	7.2
	Blackpool ...	opo	oc	54	62	3	trace	1.4	5.6
	Morecambe ...	dpoc	bbc	55	61	4	trace	0.9	4.5
9	Ilkley... ...	cdo	ocbcc	52	61	6	trace	0.9	6.7
10	Berwick-on-T.	c	cbcbo	55	66	–	0.5	1.4	5.6
11	Dunbar ...	c	crc	53	63	0.5	trace	0.7	2.4
12	Douglas ...	cidcb	cido	52	59	1	trace	0.2	4.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 29th July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Moderate or fresh southwest wind; cloudy, some rain later; moderate temperature.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands. 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate to strong southwest wind, veering tomorrow; cloudy, rain at times, some improvement tomorrow but showers; moderate temperature.

H.M. Stationery Office Press, Kingsway W.C.2.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. = ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/5 clouded. ◑ Sky 3/10 to 1/2 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A wedge of high pressure is crossing England and a depression off the Hebrides is moving eastward. Wind will be southwesterly and rain will spread to all districts though it is unlikely to reach the southeast before night.

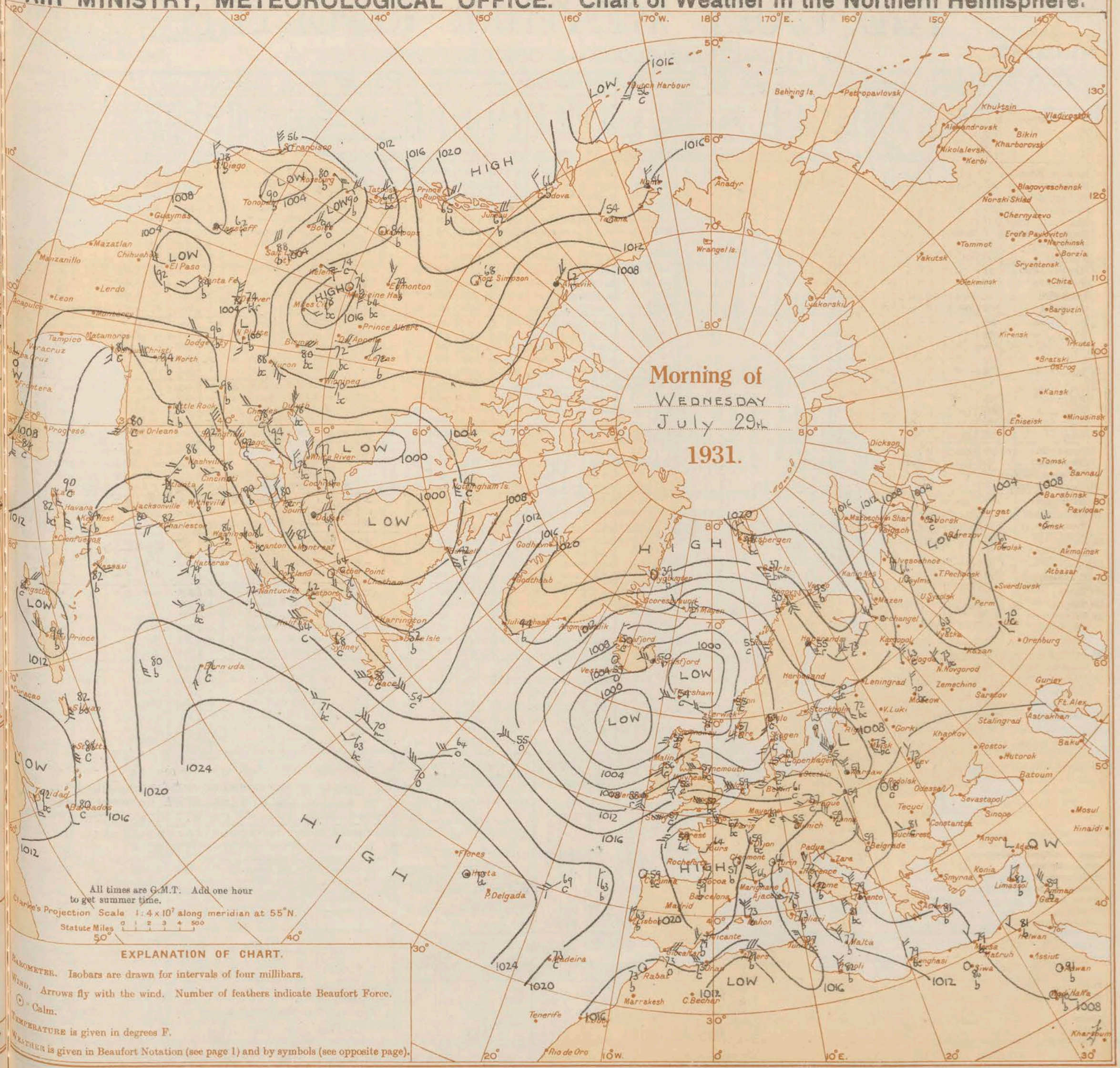
FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 0915 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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


Morning of
WEDNESDAY
July 29th
1931.
LOW
HIGH
Dutch Harbour
Behring Is.
Petropavlovsk
Anadyr
Wrangel Is.
Tatoosh
Juneau
Prince Rupert
Kamloops
Edmonton
Fort Simpson
Aklavik
Lyakorski
Yakutsk
Khabarovsk
Vladivostok
Blagoveschensk
Chernyaevo
Tommot
Yakutsk
Dickson
Tomsk
Barnaul
Omsk
Barabinsk
Pavlodar
Irkutsk
Kansk
Eniseisk
Minusinsk
Krasnoyarsk
Surgut
Tobolsk
Sverdlovsk
Perm
Orenburg
Kazan
Leningrad
Moscow
Gorki
Stockholm
Rostov
Astrakhan
Baku
Batoum
Sevastopol
Odessa
Bucharest
Belgrade
Angora
Smyrna
Konia
Mosul
Hinaidi
Amman
Gaza
Assiut
Aswan
Khartoum
Malta
Tripoli
Benghazi
Marsa Matruh
Siwa
Oasis
Biskra
Algiers
Oran
Tunis
Palermo
Cagliari
Naples
Florence
Padua
Turin
Munich
Berlin
Copenhagen
Malin Head
Valentia
Lisbon
Madrid
Barcelona
Gibraltar
Tangier
Rabat
Marrakesh
C. Bechar
Tenerife
Rio de Oro
Funchal
Madeira
Ponta Delgada
Flores
Horta
Godthaab
Julianehaab
Scoresbysund
Ivigtut
Godhavn
Jan Mayen
Vardo
Bodo
Trondheim
Stavanger
Aberdeen
Lerwick
Thorshavn
Vestmanhavn
Reykjavik
Stornoway
Valencia
Belmullet
Blacksod Point
Galway
Roche Point
Cobh
Scilly
Falmouth
Plymouth
Portland Bill
Dungeness
Ostend
Hamburg
Copenhagen
Stockholm
Helsingfors
Archangel
Kandalaksha
Murmansk
Petsamo
Kem
Onega
Kotlas
Ukhta
Pechora
Vorkuta
Nagurskoe
Franz Josef Land
Spitsbergen
Bear Is.
Hammerfest
Alta
Tromso
Haparanda
Lulea
Sundsvall
Stockholm
Visby
Karlskrona
Malmo
Gothenburg
Skagen
Esbjerg
Hanstholm
Thorshavn
Lerwick
Aberdeen
Stornoway
Malin Head
Blacksod Point
Valentia
Belmullet

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 29th July, 1931.

No. 25,451.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1017·8	+4	W'S	2	b	53	95	8	-	3	-	0	1·	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1018·5	+4	SW	2	c	56	85	8	5	-	-	7·8	7·8	5700
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1017·3	+6	W	3	bc	54	85	8	-	3	-	0	4.6	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1014·1	+8	W'S	3	bc	55	95	7	-	6	-	0	2·3	-
	Cranwell ...	240	1014·9	+6	W'S	4	c	51	85	7	-	3	9	0	4·8	-
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1019·1	0	W'N	4	c	58	75	8	4	7	8	4.6	7·8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1021·8	-2	SW'W	2	bc	53	95	8	2	3	-	2·3	4.6	4000
	Scilly(St.Mary's)	163	1021·8	-6	WNW	3	bc	55	95	8	-	4	-	0	2·3	-
	Guernsey ...	175	1021·0	0	W	3	bc	56	95	8	8	4	-	4.6	4.6	1500
6	Pembroke ...	142	1017·9	+4	S	1	b	56	85	8	-	4	-	0	1	-
7	Holyhead ...	26	1016·1	+2	W'S	3	bc	54	85	8	2	4	1	Tr.	2·3	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1012·4	+6	NW	5	d	55	75	7	3	1	9	2·3	7·8	4000
	Tynemouth ...	67	1011·0	+20	W	4	d	54	75	7	9	-	-	7·8	7·8	2500
11	Inchkeith ...	190	1010·3	+10	W	4	c	52	95	8	5	2	-	4.6	9+	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1007·7	-6	WSW	2	c	51	95	7	8	-	-	9	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1005·5	+4	NW	4	r.r.	53	95	7	9	-	-	10	10	1500
16	Lerwick ...	54	1002·5	+10	W'N	1	d.d.	53	95	4	6	-	-	10	10	450
17	Blacksod Point	18	1012·7	-18	SW	6	d	58	75	7	8	-	-	10	10	450
18	Malin Head ...	52	1011·9	-16	SSW	3	d	56	85	7	5	2	-	2·3	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1017·0	-14	SSW	3	o	58	85	7	5	-	-	10	10	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1018·4	+6	W'S	2	c	56	85	6	7	4	2	2·3	7·8	800	1	*
	Croydon ...	1018·3	+6	W	3	bc	57	85	7	7	3	1	1	2·3	4000	0	*
	S. Farnborough	1018·3	+2	WSW	3	bc	58	85	7	1	4	1	Tr.	2·3	1500	1	*
	Winchester ...	1018·9	+4	W	3	c	56	95	7	5	-	4	2·3	7·8	800	0	*
	Boscombe Down	1018·9	+6	W	3	bc	56	95	7	5	-	1	2·3	4·6	1500	0	*
	Calshot,(S'thmtn)	1018.7	+2	SW'W	3	bc	59	85	8	8	8	2	2·3	4·6	4000	0	1
	Dungeness ...	*	*	W	2	bc	*	*	7	1	7	*	2·3	4·6	2500	*	2
	Lympne ...	1018.0	+6	WNW	1	bc	55	85	8	-	-	9	0	2·3	-	0	*
2	Shoeburyness	1017.8	+8	W'S	3	c	57	85	5	5	-	-	7·8	7·8	5700	0	*
	Felixstowe ...	1017·2	+6	WSW	3	bc	56	85	8	-	3	-	0	2·3	-	0	2
	Gorleston ...	1015.6	+8	W	3	b	53	85	7	-	-	1	0	Tr.	-	0	2
	Cranwell ...	1016·0	+6	W'S	3	bc	56	85	7	-	3	9	0	4·6	-	0	*
3	Cardington ...	1017.0	+6	SW'W	3	b	57	85	7	7	3	1	Tr.	1	2500	*	*
	Birmingham ...	1017.1	+2	SW	2	c	55	85	8	-	3	-	0	7·8	-	1	*
	Upper Heyford	1017.7	0	WSW	3	bc	55	85	7	-	3	1	0	4·6	-	1	*
	Leafield ...	1017.4	+6	SW	2	bc	54	85	8	1	3	4	Tr.	2·3	2500	0	*
4	Ross-on-Wye ...	1017.0	0	SW	2	c	56	85	8	5	7	1	Tr.	9	2500	1	*
5	Portland Bill...	1019·3	+4	W'N	4	c	59	85	8	2	4	2	4·6	7·8	2500	0	3
	Plymouth ...	1019.5	+2	W	1	c	56	95	7	5	2	-	4·6	9+	800	1	1
	Falmouth ...	1019.9	-2	WSW	2	c/r	55	95	8	6	7	-	2·3	9	2500	1	1
	Scilly(St.Mary's)	1019.5	-10	WSW	3	c	57	95	7	8	1	-	4·6	7·8	4000	0	2
	Guernsey ...	1020.9	+8	WSW	1	c	59	85	7	8	2	8	4·6	7·8	2500	0	3
6	Pembroke ...	1016·5	-10	SW	3	c	58	85	8	8	6	-	4·6	9+	2500	0	2
7	Holyhead ...	1014.1	-8	SSW	5	u	56	95	8	6	7	-	7·8	10	800	0	2
	Chester (Sealand)	1015·4	-8	SW'S	2	c/r	55	75	8	5	-	1	7·8	9	5700	0	*
8	L'pool (Bidston)	1014.7	-2	WSW	4	c	54	75	9	5	-	8	9	9+	4000	0	*
9	Harrogate ...	1013.8	+6	SSW	3	bc	55	75	8	6	3	1	1	2·3	2500	1	*
10	Spurn Head ...	1013.9	+6	WNW	4	bc	55	85	7	-	1	9	0	2·3	-	0	4
	Tynemouth ...	1011·9	+2	W	3	bc	57	75	6	2	6	-	4·6	4·6	2500	0	2
11	Inchkeith ...	1010·3	-2	WSW	4	c	52	95	8	5	2	-	2·3	9+	2500	0	2
	Leuchars ...	1009.7	+2	WSW	3	r.c.	53	95	7	6	7	-	7·8	9+	2500	1	*
12	Renfrew ...	1010.9	-8	SW	3	c	54	85	6	5	-	-	10	10	800	1	*
	Eskdalemuir ...	1012·1	-6	WSW	4	o	50	95	7	5	-	-	10	10	450	1	*
13A	Tiree	1005.8	-18	SSW	4	r.r.	55	95	6	6	2	-	7·8	10	800	1	3
13B	Stornoway ...	1002·6	-28	SW	3	c/d	55	95	7	6	2	-	4·6	10	800	1	2
15	Dalwhinnie ...	1007·2	-8	SE	2	c	51	85	5	4	4	-	9	10	220	1	*
	Aberdeen ...	1008.4	0	SW	2	c	56	75	8	8	3	-	4·6	7·8	2500	1	0
	Wick	1005·8	+4	SW	2	r.r.	53	95	8	9	-	-	10	10	1500	1	2
16	Lerwick ...	1003·5	+6	W'N	2	ir.	52	95	7	6	-	-	10	10	800	2	*
17	Blacksod Point	1007.6	-20	SW	5	u	59	95	7	3	-	-	10	10	<150	1	4
18	Malin Head ...	1007·3	-20	S	4	c/r	56	95	7	6	2	-	2·3	10	1500	0	2
	Aldergrove ...	1010.9	-16	SSE	3	ir.	54	95	6	5	2	-	7·8	10	1500	1	*
	Donaghadee ...	1011·3	-10	WNW	1	pr	54	95	7	5	2	-	7·8	9	2500	1	0
19	Birr Castle ...	1011.7	-20	S	3	o	56	95	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy.†	1012·6	-16	S	5	r.r.	58	95	6	6	-	-	10	10	800	1	3
	Roches Point...	1014.5	-12	SW	3	ir.	57	95	7	6	-	-	10	10	800	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 29th Hrs. (36)
1	London (Kew)...	65	51	47	-	-	1·8
	Croydon ...	64	52	50	-	Tr.	3.0
	S. Farnborough	68	49	39	-	-	2·8
	Winchester ...	66	48	44	-	-	5·8
	Boscombe Down	64	48	39	-	Tr.	*
	Calshot,(S'thmtn)	66	52	50	Tr.	-	4·4
	Dungeness ...	68	51	*	-	-	*
	Lympne ...	66	50	47	-	-	5·8
2	Shoeburyness	65	51	48	-	-	2·7
	Felixstowe ...	63	52	48	Tr.	-	1·0
	Gorleston ...	62	51	48	-	-	0·9
	Cranwell ...	60	47	47	0·3	-	0·2
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	61	48	46	-	-	1·5
	Upper Heyford	65	57	40	-	Tr.	*
	Leafield ...	63	46	36	-	-	4·1
4	Ross-on-Wye ...	61	50	45	-	-	1·3
5	Portland Bill...	63	57	*	-	-	*
	Plymouth ...	63	54	52	-	Tr.	3.7
	Falmouth ...	63	62	*	Tr.		8.0
	Scilly(St.Mary's)	63	52	*	-	Tr.	8.3
	Guernsey ...	65	55	51	-	-	11·2
6	Pembroke ...	59	55	*	-	-	4·3
7	Holyhead ...	61	53	46	-	Tr.	2·4
	Chester (Sealand)	63	50	45	Tr.	Tr.	0.9
8	L'pool (Bidston)	60	51	48	0·3	-	0.8
9	Harrogate ...	59	49	40	-	-	1.0
10	Spurn Head ...	60	53	*	0·2	-	0.6
	Tynemouth ...	62	51	47	-	-	*
11	Inchkeith ...	59	51	49	-	1	1·9
	Leuchars ...	66	48	43	Tr.	Tr.	2.8
12	Renfrew ...	62	52	48	Tr.	-	1·7
	Eskdalemuir ...	56	47	46	1	-	1·8
13A	Tiree	58	54	50	2	4	2.0
13B	Stornoway ...	59	52	*	Tr.	0.5	0.1
15	Dalwhinnie ...	(58)	51	43	-	-	1.8
	Aberdeen ...	59	52	48	3	0·3	0.0
	Wick	58	51	*	0·3	1	*
16	Lerwick ...	59	52	*	-	5	1.0
17	Blacksod Point	60	55	*	0·1	2	*
18	Malin Head ...	60	54	*	Tr.	Tr.	6.8
	Aldergrove ...	63	49	41	0·1	1	4·3
	Donaghadee ...	62	50	*	Tr.	0.5	*
19	Birr Castle ...	62	51	42	-	Tr.	2·8
20	Valentia Obsy.†	61	55	52	Tr.	12	2.5
	Roches Point...	62	55	*	0·1	3	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	c cy	cyc	cwbcw	65	51	47	-	-	1·8	*	*	8
Croydon	217	c	o	cbcwc	64	52	50	-	Tr.	3·0	*	*	8
Greenwich (Royal Observatory) ...	149	cy	cy	cbwc	69	50	42	-	Tr.	3.4	51	66	7
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	2·9	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	66	52	48	-	-	2·8	51	67	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	5·6 2.1	*	*	*
Camden Square	110	c	c	*	67	52	50	-	-	*	70		*
Kensington	80	cbc	c	*	66	52	45	-	-	2·4	At 18h. 65	73	*
Hampstead Observatory	450	bc	bc	*	65	48	42	-	0.1	3.7	*	75	*

FOREIGN OBSERVATIONS.

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

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1018.5	WNW	4	c	64
Brussels	1015.5	W	3	c	61
Berlin	1011.0	S	2	c	66
Zürich	1017.8	W	2	bc	63
Rome					

7h. G.M.T. 29th July

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1021·1	W'N	2	bc	57
1017·9	W	2	c	59
1013·9	W	4	c	61
1012.6	W	1	bc	57
1011.5	NE	1	b	72

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
68	54	0·2	0.1
66	54	2	-
70	55	-	-
66	52	3	-
	63		-

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
Defective record.			

Kew Observatory. Max.	Time.	Min.	Time.
0·1	10h. 28th	<0.1	2h. 29th

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† The observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 30th July 1931.

No. 25452.

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1017·3	-8	W'S	3	r	62	65	8	6	2	-	2-3	10	1500
	Croydon	1017·4	-2	WSW	3	r₀r₀	63	75	7	5	2	-	4-6	10	2500
	S. Farnborough	1017·1	-6	SSW	2	rr	59	86	7	6	2	-	7-8	10	800
	Winchester	1017·4	-8	SSW	2	rr	58	96	7	3	2	-	2-3	10	2500
	Boscombe Down	1017·2	-14	SSW	3	ir₀	58	96	7	6	2	-	2-3	10	800
	Calshot, S'thmtn	1018·0	-6	SW	4	ir	59	85	7	5	7	-	4-6	9+	2500
	Dungeness	*	*	SW	4	c	*	*	7	8	7	*	4-6	7-8	2500
	Lympne	1017·6	0	SW	4	c	61	75	8	8	7	-	2-3	10	2500
2	Shoeburyness	1017·5	0	W'S	3	c	64	65	7	5	2	-	2-3	10	4000
	Felixstowe	1016·9	-4	SW	3	c	65	55	8	1	2	-	2-3	10	2500
	Gorleston	1015·4	0	WSW	2	c	65	75	7	2	2	-	4-6	10	2500
	Cranwell	1014·8	-6	SW	3	rr	58	85	6	6	2	-	7-8	10	2500
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1015·5	-10	SW	4	r₀r₀	55	95	8	6	2	-	7-8	10	1500
	Upper Heyford	1016·6	-6	SSW	2	r₀r₀	57	95	8	6	2	-	4-6	10	800
	Leafield	1015·9	-10	SSW	3	r₀r₀	57	95	8	6	2	-	9	10	1500
4	Ross-on-Wye	1015·4	-14	SW	3	c/r	57	95	6	6	1	-	9	10	2500
5	Portland Bill	1018·2	-6	SW'S	4	s/r	59	85	7	4	2	-	7-8	10	2500
	Plymouth	1017·8	-10	SW	4	ir₀	60	95	7	9	7	-	2-3	9+	2500
	Falmouth	1017·5	-6	SW'W	5	bc/pr	60	85	8	5	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	1018·3	-12	WSW	4	c/pr	61	85	7	8	6	-	4-6	7-8	4000
	Guernsey	1020·3	-4	SW	4	bc	63	75	7	7	4	-	2-3	4-6	2500
6	Pembroke	1014·1	-14	SW	4	c	55	85	8	8	7	-	7-8	9+	1500
7	Holyhead	1011·1	-18	SSW	6	r₀r₀	57	95	6	6	1	-	9+	10	800
	Chester (Sealand)	1012·6	-20	SE	3	c/r	58	85	8	5	-	-	10	10	1500
8	L'pool (Bidston)	1012·1	-12	SSW	3	pr₀	57	85	9	6	2	-	9+	10	1500
9	Harrogate	1012·3	-10	S	3	ir	56	85	5	6	2	-	4-6	10	2500
10	Spurn Head	1013·4	-2	WSW	4	c	63	65	7	4	1	-	4-6	9+	4000
	Tynemouth	1010·0	-10	SW	2	c/r	59	75	6	6	-	-	10	10	1500
11	Inchkeith	1007·2	-12	SW	4	c	57	85	8	5	2	-	4-6	9+	2500
	Leuchars	1007·4	-14	SW	3	c/pr	61	75	7	5	2	-	7-8	9+	1500
12	Renfrew	1007·6	-16	S	2	ir₀	57	95	6	5	2	-	9	10	800
	Eskdalemuir	1008·4	-20	SW	5	c/pr	54	95	7	5	-	-	10	10	1500
13A	Tiree	1003·0	-8	S'W	4	d₀d₀	57	95	5	6	-	-	10	10	800
13B	Stornoway	1000·5	-8	SW	4	c	58	95	8	5	4	-	7-8	9+	800
15	Dalwhinnie	1006·8	-20	SE	2	c	50	75	5	5	4	-	7-8	10	450
	Aberdeen	1005·6	-12	SSW	4	c	59	75	7	6	7	-	4-6	9	2500
	Wick	1002·2	-20	SSE	3	c	56	95	8	5	2	8	4-6	9+	1500
16	Lerwick	1002·7	-6	S	2	c/r	55	85	7	6	2	-	4-6	10	1500
17	Blacksod Point	1006·6	0	SW	3	d	59	95	6	6	-	-	10	10	1150
18	Malin Head	1004·4	-10	WSW	3	c/r	60	95	7	6	1	-	7-8	9+	1500
	Aldergrove	1006·6	-22	S'W	3	d₀d₀	59	95	8	5	1	-	7-8	9+	450
	Donaghadee	1007·2	-20	SW	1	r₀r₀	57	95	7	6	-	-	10	10	800
19	Birr Castle	1008·2	-14	SW	2	ir	61	95	7	6	-	-	10	10	1500
20	Valentia Obsy.	1010·7	-6	S'W	3	c	61	95	8	5	-	-	10	10	450
	Roches Point	1011·3	-20	SW	3	d₀d₀	59	95	6	5	-	-	10	10	450

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1014·7	-10	SW'S	4	c	63	75	8	4	3	-	4-6	7-8	1500	1	*
	Croydon	1015·3	-14	SSW	3	c/r	61	75	8	7	3	-	2-3	7-8	5700	0	*
	S. Farnborough	1015·0	-16	SW	4	c	61	75	8	5	8	-	9	9+	4000	1	*
	Winchester	1015·1	-8	SW	4	c	60	75	8	8	5	-	4-6	7-8	2500	0	*
	Boscombe Down	1015·0	-18	WSW	4	c	60	85	8	5	3	-	2-3	7-8	2500	1	*
	Calshot, S'thmtn	1016·3	-14	SW	4	c	61	85	8	5	3	1	4-6	9	4000	0	2
	Dungeness	*	*	SW	3	c	*	*	7	5	7	*	2-3	9+	1500	*	2
	Lympne	1016·2	-10	SW'W	3	c	57	85	8	5	-	-	10	10	5700	1	*
2	Shoeburyness	1015·4	-14	SSW	3	c	60	85	7	5	2	-	2-3	9+	4000	1	*
	Felixstowe	1015·5	-10	SSW	2	c/r	60	85	8	5	2	-	9	10	1500	1	1
	Gorleston	1014·8	-2	S'W	3	c/r	56	95	7	6	-	-	10	10	1500	1	1
	Cranwell	1011·9	-18	SW'S	4	ir	57	95	7	5	2	-	7-8	10	1500	1	*
3	Cardington	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	1012·4	-18	SSW	3	c	59	86	8	6	7	-	4-6	9	2500	1	*
	Upper Heyford	1013·6	-22	SW'S	3	ir₀	59	85	7	5	2	-	7-8	10	800	1	*
	Leafield	1013·0	-14	SSW	3	ir₀	57	95	8	6	5	-	8	9+	1500	1	*
4	Ross-on-Wye	1012·8	-14	SW	3	c/p	58	85	8	6	7	-	7-8	9+	2500	1	*
5	Portland Bill	1015·6	-18	SW'S	5	c	59	85	8	8	8	-	4-6	9	2500	0	4
	Plymouth	1015·5	-14	SW	4	0	58	95	7	5	-	-	10	10	2500	1	3
	Falmouth	1015·2	-8	SW'W	6	ir₀	59	85	8	5	2	-	7-8	9	4000	1	3
	Scilly (St. Mary's)	1014·4	-12	SW'W	5	c	60	85	7	5	-	-	9+	9+	1500	0	3
	Guernsey	1017·8	-16	SW	3	bc	63	75	7	1	4	-	2-3	2-3	2500	0	3
6	Pembroke	1010·5	-10	S	4	F	58	95	1	5	-	-	10	10	150	1	3
7	Holyhead	1008·3	-18	SSW	5	d₀d₀	57	95	5	5	-	-	10	10	220	1	2
	Chester (Sealand)	1009·7	-20	SE	2	c	59	85	8	5	-	-	9+	9+	2500	1	*
8	L'pool (Bidston)	1009·0	-10	SW	4	c	61	85	9	6	-	-	9+	9+	2500	0	*
9	Harrogate	1008·9	-14	S'E	3	c	58	85	5	6	2	-	9	9+	2500	1	*
10	Spurn Head	1011·0	-8	SW	5	pr	56	95	6	3	2	-	4-6	10	4000	1	4
	Tynemouth	1006·4	-20	SW	2	c/r	58	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith	1004·8	-8	SW	2	c	57	95	8	8	2	-	4-6	9	2500	1	2
	Leuchars	1004·8	-20	S	2	c/r	59	85	7	6	2	-	7-8	10	800	1	*
12	Renfrew	1004·7	-14	SW	2	r	59	95	6	6	2	-	9+	10	800	1	*
	Eskdalemuir	1005·6	-14	SW	4	d₀d₀	55	95	5	5	-	-	10	10	450	1	*
13A	Tiree	1003·0	-2	WSW	4	c	57	95	7	5	2	-	7-8	10	1500	1	2
13B	Stornoway	1000·0	-4	WSW	3	c	58	95	8	8	2	-	7-8	10	800	1	2
15	Dalwhinnie	1003·9	-16	W	1	c	55	85	6	4	5	-	4-6	10	450	0	*
	Aberdeen	1003·4	-12	SSW	2	rr	56	95	6	6	2	-	10	10	800	1	1
	Wick	1000·2	-16	SSW	2	c	55	95	8	5	2	8	4-6	7-8	1500	0	2
16	Lerwick	1000·7	-16	S	1	c/r	54	85	7	6	2	-	4-6	10	800	2	*
17	Blacksod Point	1006·8	0	SW	4	c	58	85	8	5	-	-	9	9	~~150~~ 1000	0	3
18	Malin Head	1004·3	+2	WSW	3	c	58	95	5	5	2	-	9	10	220	0	2
	Aldergrove	1005·0	-2	W'S	2	c	62	55	8	8	-	-	9+	9+	2500	1	*
	Donaghadee	1004·8	+2	SW	1	rr	61	95	7	6	-	-	10	10	800	1	0
19	Birr Castle	1007·2	-4	WSW	1	c	61	85	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1010·0	-6	W'S	3	c/pr	59	95	7	8	2	-	9+	10	450	1	3
	Roches Point	1009·4	-10	W	3	c	63	85	8	3	-	-	7-8	7-8	2500	1	4

PAST 24 HOURS.

Weather. 7h.–13h. 29th (37)	13h.–18h. 29th (38)	18h. 29th to 1h. 30th (39)	1h.–7h. 30th (40)
bcer₀	cr₀c	epbcc	coro
bcc	cr₀bc	cr₀r₀	cr₀d₀r₀
bbcerr	crre	ccir₀	oor₀d
crr	c	c	cod₀d₀m₀
bcerr	cr₀	c	cd₀d₀
bcc	cir₀c	b, cir₀	r₀r₀m
bc	p	p	p
bcvc	orr₀c	c	cid₀
bcm₀cm₀	corrm₀c	cir	cor₀r₀
bcy	crrcr₀	c	or₀r₀
bbcc	corr	cir₀q c	coir₀
bccir	r₀crr	cir₀	cid₀
crr₀	cir₀	c	corcD
crr	cr₀	ccr₀	cpror₀
bcerr₀	oir₀c	o	rd₀r
cp₀orr	d₀cip₀	p₀oid	oriGc
cpr₀	c	c	cPRrrc
cir₀	c	cr₀rm	crr₀m
cr₀bcq	cir₀q	or₀m₀	ocr₀m₀
cp₀	c	edffc	cp
oir₀c	bc	bccc	oprp
orrc	crro	iFdr	cd₀
ld₀r₀r₀	rr₀r	o, fecm₀	c
cir	rer	cbcr₀	~~cd~~cbc
cp₀u	oprvc	cvoir₀	r₀cbc, c
bbccr	crc	c	cp₀
bcc	cpr	cq/pr	cgcr
bcoir₀	oir	ocir₀	oir
c	irc	c	c
crir₀	cir₀ir₀	cpr₀pr	c
cir₀ld₀	cir₀ iR	cg₀c	c
c cpr₀	or₀d	od₀c	c
or₀r₀	d₀ o	od,m	or₀m
c	opr d	oid	c
r	r		c
cpr₀	cr₀crr	ir₀c	c
cir₀c	circ	circ	c
dir₀	or₀r₀	or₀,ffm	or₀r₀m bc
df	irc	id	id
cir	cir₀m₀	eid₀m₀c	cid₀c
cirrd₀d₀	d₀prc	ccp₀	pr₀c
cr₀r₀	orr	orrc	c
oir	orc	circ	c
cir₀r₀	cir₀fp₀	cpr₀c	cprc
oirda	odc	cp₀c	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
f_s, fog over sea (coast station).
f_g, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
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).
⊕, Solar halo. ⊙, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
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.

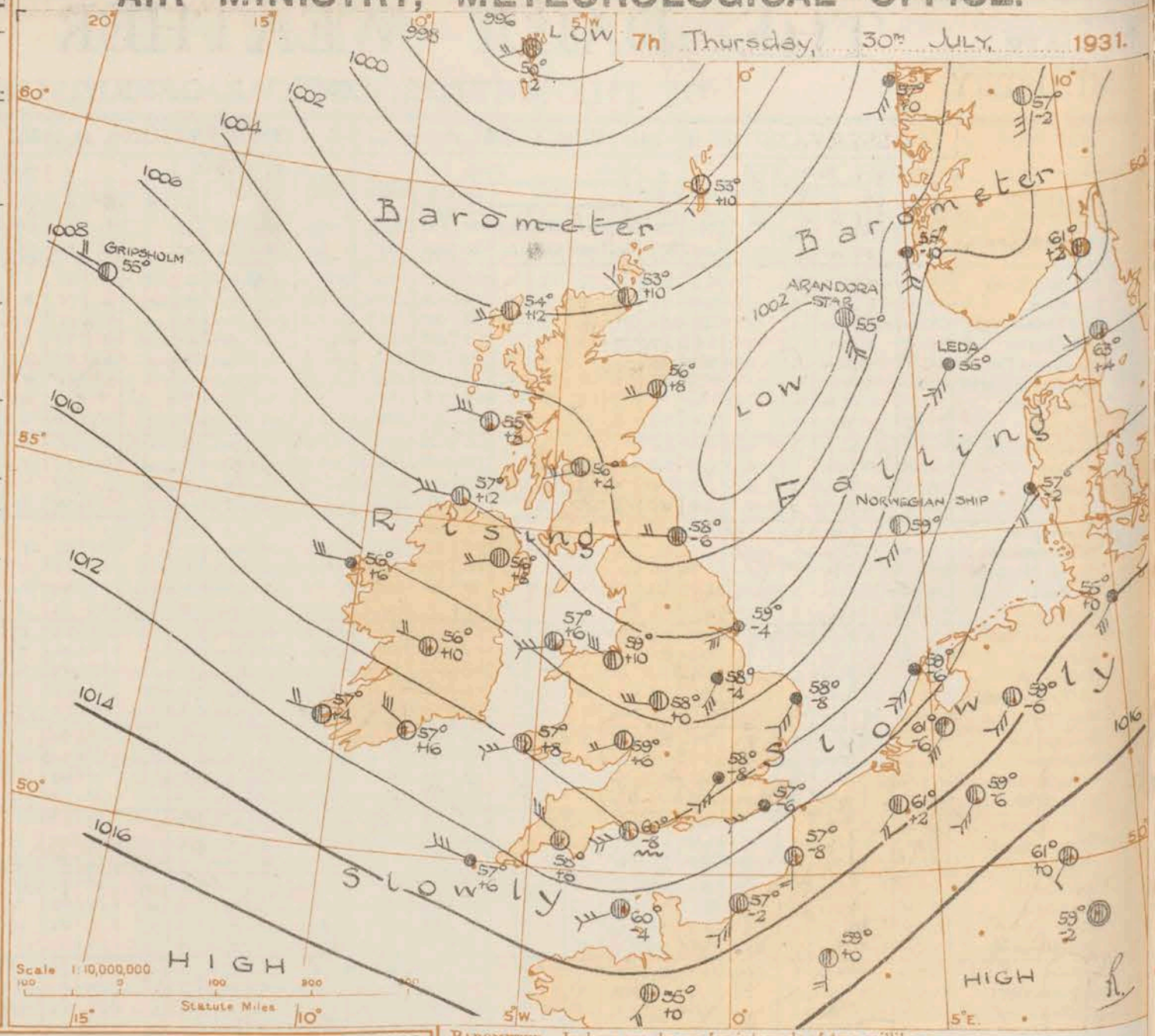
REPORTS from HEALTH RESORTS for 29th JULY 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 28th to 9h. 29th.	Temperature. Max. 9h.–17h. 29th.	Rainfall. Night. 17h. 28th to 9h. 29th.	Rainfall. Day. 9h.–17h. 29th.	Sunshine. Sunrise to 17h. 29th.	Sunshine. Sunrise to Sunset. 29th.
1	Tunbridge W.	bcco	oro	47	65	–	2	5.5	11.3
	Bournemouth	bco	oc	51	65	–	–	5.0	4.9
	Ventnor ...	cobco	orow	54	61	–	trace	3.5	4.5
	Southsea ...	bco	oc	54	65	–	0.4	5.0	5.1
	Bognor Regis	bcbec	oprbc	55	66	–	0.5	5.9	5.5
	Littlehampton	bc	bcpc	54	63	–	0.6	6.3	5.5
	Worthing ...	bbc	oc	55	64	–	1	6.4	5.5
	Brighton ...	bccod	oc	55	64	–	1	6.1	6.0
	Eastbourne†	cbcc	coroc	55	64	–	1	6.9	7.5
	Hastings† ...	bccbc	coro	51	66	–	2	5.5	6.1
	Folkestone ...	wbbec	coro	51	68	–	1	6.2	5.4
	Dover... ...	bcc	copc	53	66	–	1	5.3	4.6
	Deal	bbc	coro	52	67	–	0.5	4.8	3.0
	Ramsgate ...	bcc	crc	52	67	–	0.5	5.4	3.4
	Margate ...	bc	cr	52	64	–	0.4	6.1	6.8
2	Southend ...	bcc	or	51	66	–	1	3.6	3.1
	Maldon ...	bbcc	coro	50	66	–	1	3.2	1.6
	Clacton-on-Sea	bcc	cod	52	65	–	0.5	3.4	1.5
	Dovercourt ...								
	Lowestoft ...	bcbbc	bccor	49	62	–	3	5.8	1.6
	Skegness ...	b	bom	56	65	–	–	6.5	0.0
	Mablethorpe	bcc	corm	48	65	–	0.3	5.7	0.1
	Cleethorpes ...	cbc	corr	49	64	trace	0.5	5.2	0.5
3	Leamington S.	copr	opr	50	61	–	3	2.1	2.6
4	Cheltenham†	wcorr	oroc	51	62	–	5	0.2	0.9
5	Bath	cr	rc	53	66	0.5	1	2.0	4.6
	Weymouth ...	bcc	cbc	55	67	–	–	4.8	8.4
	Jersey ...	cbc	bc	57	67	–	–	10.2	8.7
	Torquay ...	c	cocq	52	64	–	–	1.1	7.8
	Penzance ...	cbc	com	53	65	0.2	–	1.4	6.6
	St. Ives ...	c	c	56	64	trace	–	1.3	7.8
	Bude	oro	o	58	63	0.5	0.2	1.9	3.4
	Ilfracombe ...	orc	co	56	65	–	2	0.6	4.2
6	Aberystwyth	cir	rrcir	52	61	0.3	3	0.1	0.2
7	Llandudno ...	cpc	c	53	64	–	trace	0.9	1.9
	Colwyn Bay...	orc	cbc	51	65	–	0.5	0.5	1.6
	Rhyl								
8	Wallasey ...	cp	cpc	51	61	trace	0.5	0.2	1.0
	Southport‖ ...	or	ro	53	67	–	3	0.8	1.9
	Blackpool ...	od	odo	55	59	0.1	8	0.0	1.4
	Morecambe ...	cdrrp	dpror	55	59	–	19	1.1	1.6
9	Ilkley... ...	c	bcpbc	50	62	–	trace	2.9	1.1
10	Berwick-on-T.	cpr	or	51	59	trace	1	0.9	1.4
11	Dunbar ...	crc	crrc	51	62	0.3	3	0.4	0.7
12	Douglas ...	com	RRom	49	57	trace	11	0.0	0.7

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Thursday, 30th JULY, 1931.



FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th July, 1931.

Districts	
1	S.E. England
2	E. England
3	E. Midlands
4	W. Midlands
5	S.W. England
6	South Wales
7	North Wales
8	N.W. England
9	N. Midlands
10	N.E. England
11	S.E. Scotland
12	S.W. Scotland & Isle of Man
13	A. W Scotld. B. N.W. Scotland
14	Mid-Scotland
15	N.E. Scotland
16	Orkneys and Shetlands.

Moderate or light westerly wind; mainly cloudy, some showers, brighter intervals; moderate temperature.

17	N.W. Ireland
18	N.E. Ireland
19	S.E. Ireland
20	S.W. Ireland

Moderate or light westerly wind, backing later; mainly cloudy, occasional showers at first, probably some rain later; moderate temperature.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. = ⊙
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A trough of low pressure is now crossing Eastern England followed by a feeble wedge of high pressure now off West Ireland Wind will be westerly and weather mainly cloudy with showers and some brighter intervals.

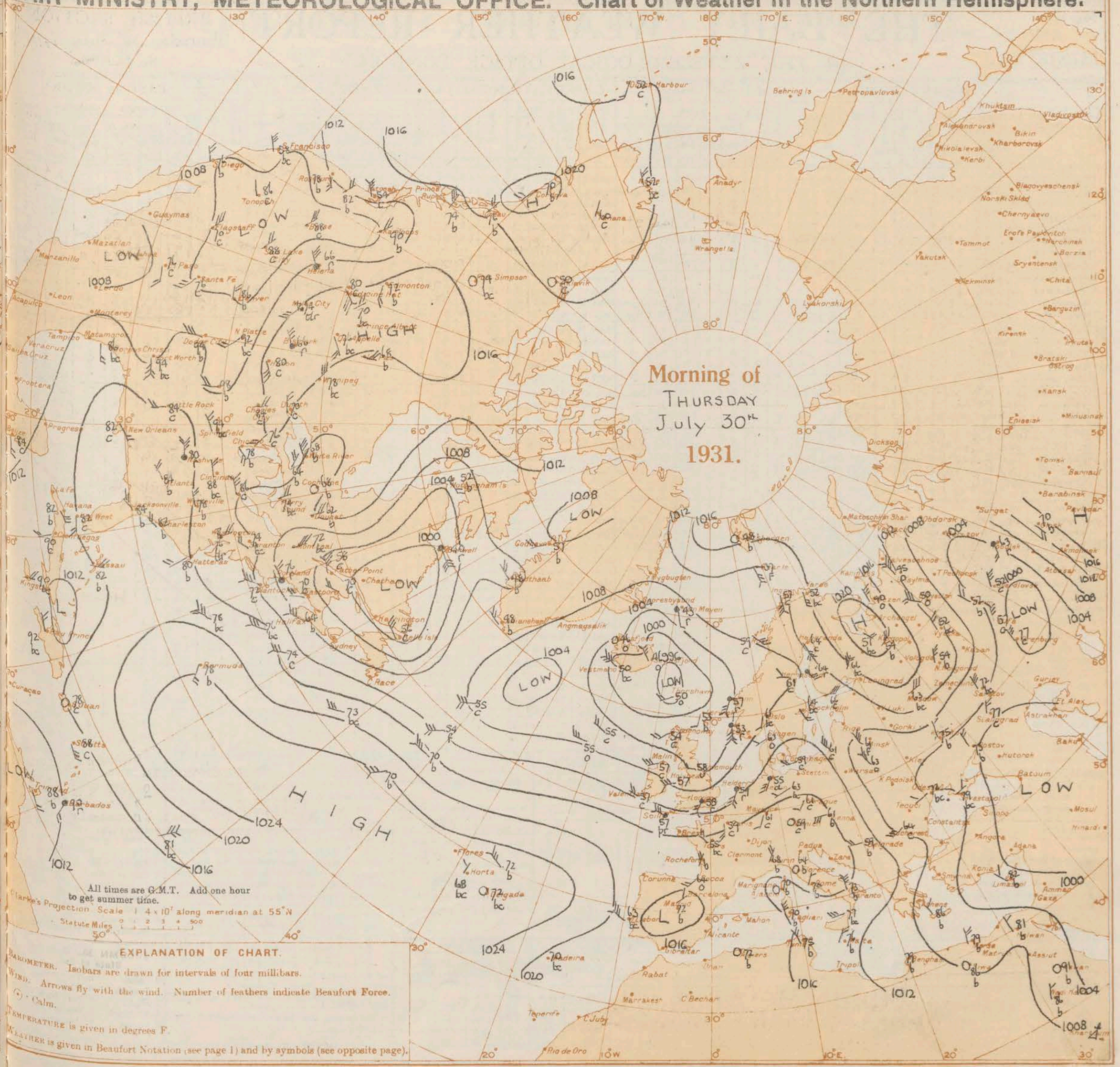
FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 0900 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 30th July 1931.

No. 25,452.

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

District.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1012·9	-14	SW'S	3	ir°	57	95	7	5	-	-	10	10	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1013·8	-12	SW	5	ir°	58	95	8	5	2	-	4·6	9+	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1013·3	-14	SW'W	4	c	55	95	8	-	7	-	0	9+	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1011·3	-12	SW'S	3	c	57	95	7	6	3	-	4·6	9	2500
	Cranwell ...	240	1008·5	-20	SW	4	c	57	95	7	5	-	-	9+	9+	800
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1012·6	-14	SW'S	5	c	59	85	8	4	2	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1011·8	-18	SW'W	4	r°	58	95	8	5	-	-	10	10	800
	Scilly (St. Mary's)	163	1012·2	-4	W'N	4	c	59	95	7	5	-	-	9+	9+	4000
	Guernsey ...	175	1015·0	-20	SSW	4	c	58	85	7	5	-	-	10	10	2500
6	Pembroke ...	142	1007·9	-8	WSW	3	c	58	95	7	8	6	-	4·6	9+	2500
7	Holyhead ...	26	1007·4	-2	W'N	4	c/pr	57	95	7	5	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1007·2	-8	SW	4	r°	57	95	7	4	7	-	4·6	7·8	5700
	Tynemouth ...	67	1004·1	-8	SW	1	c/pr	57	95	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1003·5	-8	SW	2	c	55	95	7	5	5	-	2·3	7·8	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1000·6	+2	-	0	0	53	95	7	5	-	-	10	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1000·3	0	W	2	c	55	95	8	8	2	-	7·8	10	1500
16	Lerwick ...	54	2288	-6	SW	1	r°	53	95	8	8	-	-	10	10	4150
17	Blacksod Point	18	1006·8	0	WSW	3	DD	56	95	6	6	-	-	10	10	4150
18	Malin Head ...	52	1004·4	0	W	3	c	56	95	7	5	7	-	4·6	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1010·3	+6	SW	4	c	56	95	8	8	4	-	4·6	7·8	800
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
1009·8	-6	SSW	3	o	59	95	7	5	-	-	10	10	1500	1	*
1010·1	-8	SSW	4	c	58	95	7	6	-	-	10	10	450	1	*
1009·5	-4	SW'S	3	id°	59	95	7	6	-	-	10	10	450	1	*
1009·8	-12	SW'W	4	c	58	95	7	5	-	-	10	10	220	1	*
1009·9	-4	WSW	3	c	58	95	7	5	3	-	9	9+	450	1	*
1011·1	-8	SW'S	4	c	60	95	7	6	-	-	10	10	450	1	2
*	*	SW	4	c	*	*	7	8	9	*	4-6	7-8	2500	*	3
1011·6	-6	WSW	4	id°	57	95	8	6	2	-	7-8	10	1500	1	*
1010·4	-10	SW	4	r°	58	95	6	6	-	-	10	10	450	1	*
1010·1	-12	SSW	4	r°	57	95	5	6	-	-	10	10	1500	1	2
1008·5	-8	SW'S	4	r°	58	95	6	6	-	-	10	10	1500	1	2
1006·6	-4	SW'S	3	id°	58	95	6	5	-	-	10	10	800	1	*
1008·1	-8	SSW	4	id°	59	95	7	6	7	-	9	9+	800	*	*
1007·8	0	W	3	c	58	95	7	6	-	-	9+	9+	1500	1	*
1008·6	-6	SW	4	c	59	95	7	5	-	-	10	10	800	1	*
1008·0	-6	SW	3	c	57	95	7	6	1	-	4-6	9+	800	1	*
1008·4	+6	WSW	2	c	59	85	7	5	-	-	9+	9+	4000	1	*
1010·0	-8	WSW	5	c	60	95	8	4	7	-	7-8	9	2500	1	4
1011·4	+6	NW	3	c/pr	58	95	7	6	3	-	9	9+	450	1	3
1012·3	+4	W	3	r°	58	95	7	6	-	-	7-8	7-8	4000	1	2
1012·8	+6	WNW	4	pr	57	95	7	6	-	-	9+	9+	2500	1	2
1013·0	-4	WSW	4	o	60	95	6	5	-	-	10	10	2500	1	3
1009·2	+8	WSW	4	c	57	95	7	8	7	-	7-8	9+	4000	1	3
1007·9	+6	W'S	4	c/pr	57	95	8	5	-	-	9+	9+	1500	1	*
1007·2	+10	WNW	3	c	59	85	8	5	-	-	9	9	4000	1	*
1007·2	+6	WNW	4	c	57	95	8	5	1	-	9+	10	1500	0	*
1004·7	0	SSW	3	c	57	85	8	6	-	9	9	9+	2500	1	*
1006·0	-4	WSW	3	c	59	95	6	6	2	-	7-8	9+	4000	1	2
1003·2	-6	W	2	o	58	95	6	6	-	-	10	10	1500	1	1
1003·5	+2	WSW	3	c	55	95	7	5	-	-	9+	9+	800	0	2
1003·4	0	WSW	2	c	57	95	7	5	3	1	4-6	9	4000	1	*
1004·9	+4	WSW	2	c	56	95	7	8	1	-	9	10	800	1	*
1004·6	+4	W	2	c	55	95	7	5	2	-	9	9+	800	1	*
1004·1	+8	W'N	4	c	55	95	7	5	2	-	7-8	10	1500	1	2
1002·0	+12	WSW	2	c	54	95	9	8	-	-	7-8	7-8	1500	1	1
1002·5	?	S	1	c	53	95	6	4	4	-	9+	10	450	0	*
1002·5	+8	WSW	2	c	56	95	6	5	-	-	9+	9+	2500	0	1
1001·5	+10	NW	1	c	53	95	8	9	7	-	4-6	9	1500	1	1
1000·0	+10	SW	1	bc	53	95	8	5	4	-	4-6	4-6	1500	1	*
1008·6	+6	W	3	id°	56	95	7	5	-	-	9+	9+	4150	1	2
1005·9	+12	W'S	4	c	57	95	7	5	3	-	7-8	9+	800	0	2
1006·4	+8	WSW	2	c	56	95	8	5	-	-	10	10	800	1	*
1006·3	+10	WSW	1	c	58	85	7	5	3	-	4-6	7-8	2500	0	0
1008·7	+10	WNW	2	c	56	95	7	5	4	-	7-8	7-8	2500	1	*
1011·4	+4	W'N	2	c	57	95	8	5	-	-	9	9	800	1	2
1010·5	+16	NW	3	bc	57	85	8	5	9	-	2-3	4-6	1500	0	2

PAST 24 HOURS.

Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 30th Hrs. (36)
65	57	55	1	2	3.6
63	57	55	0.6	1	4.2
69	56	53	1	0.2	5.1
63	55	54	2	0.5	4.8
63	61	53	2	1	5.9
64	58	56	0.4	3	*
67	57	*	1	Tr	*
66	54	53	2	Tr	5.9
66	56	55	1	1	3.6
65	56	55	1	1	4.4
65	55	53	3	1	6.9
63	56	54	2	1	5.4
*	*	*	*	*	*
59	55	55	2	1	2.3
61	56	54	2	1	*
59	55	53	2	1	3.0
61	56	55	2	0.2	1.0
61	58	*	Tr	0.2	*
61	57	56	Tr	2	0.9
61	57	*	Tr	2	1.2
64	56	*	0.1	2	3.2
66	57	55	Tr	1	8.4
59	56	*	6	1	0.1
58	56	53	4	Tr	0.0
61	56	53	2	0.2	0.0
61	55	54			0.2
58	54	52	1	5	0.5
62	54	52	2	3	0.3
59	54	53	8	1	0.0
56	51	49	4	1	0.0
58	55	53	2	1	0.0
59	51	*	1	0.4	0.0
55	52	38	1	-	0.0
61	53	50	4	Tr	0.6
57	53	*	1	0.6	*
55	52	*	2	4	1.6
62	54	*	1	0.2	*
61	55	*	3	0.3	0.1
66	53	44	3	0.2	0.8
64	54	*	14	0.5	*
63	54	54	3	1	0.3
63	54	54	4	0.4	0.1
63	55	*	1	0.1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm. (Yesterday.)	Rainfall. Night. mm. (Yesterday.)	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 18h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	bcer°	cr°c	bccor°	65	57	55	1	2	3.6	*	*	7
Croydon	217	bcc	cr°bc	cr°c°r°	63	57	55	0.6	1	4.2	*	*	8
Greenwich (Royal Observatory)	149	c	cd°dc	cr°ir°	67	56	51	05	2	3.3	70	91	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3.3	*	*	*
Westminster (St. James' Park)	27	*	*	*	64	57	55	--- 2 ---		3.5	72	83	*
Rochis Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	3.4	*	*	*
Camden Square	110	bcc	cc rc	*	65	57	55	--- 4 ---			At 18h.		*
Kensington	80	bc	bcoir°	*	65	57	53	0.6	2	3.4	73	87	*
Hampstead Observatory	452	bc	bcor°	*	62	53	49	1	3	3.5	*	95	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
	Defective		Record

Kew Observatory. Max.	Time.	Min.	Time.
0·1	8h 29m	<0·1	15h 29m & 7h 30m

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 29th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Th. G.M.T. 30th July. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1018·6	NW	2	c	66	1015·4	S	2	c	59
Brussels	1017·4	SSW	2	r°	59	1013·8	SW	2	c	61
Berlin	1014·8	W	2	c	63	1015·3	WSW	1	bc	63
Zurich	1017·8	NNW	1	bc	66	1016·0	SE	1	bc	55
Rome	1011·7	NW	5	c	86	1011·1	NNE	1	o	70

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
68	52	-	-
69	54	0·2	0·2
68	55	-	-
72	52	-	-
	59		

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	"
2	Fog	550	"
3	Moderate fog	1,100	"
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	"
6	Moderate "	6½	"
7	Good "	12½	"
8	Very good "	31	"
9	Excellent "	beyond 31	m.

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 8 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 31st July 1931.

No. 25453

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High. (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	1009.4	0	W	3	c	66	65	8	4	3	-	2-3	10	2500
	Croydon ...	1009.8	+6	WSW	2	c	66	75	8	8	7	-	7-8	9+	1500
	S. Farnborough	1009.7	+4	W'S	3	c	67	55	8	7	-	-	9+	9+	4000
	Winchester ...	1010.0	+2	W	4	c	66	68	8	8	2	-	7-8	9+	2500
	Boscombe Down	1010.0	+2	W	4	c	66	75	8	7	-	-	9+	9+	2500
	Calshot, S'thmtn	1011.3	+2	SW	4	c	64	85	8	5	-	-	9+	9+	4000
	Dungeness ...	*	*	SW	4	c	*	*	7	8	7	*	2-3	9	1500
	Lympne ...	1009.8	-12	SW	4	c	62	95	7	5	-	-	7-8	7-8	450
2	Shoeburyness	1009.1	-4	WSW	3	pr	63	85	8	8	7	-	7-8	9+	800
	Felixstowe ...	1008.8	-4	SSW	4	c	66	86	8	8	7	-	4-6	7-8	1500
	Gorleston ...	1007.8	+4	WSW	3	o/r	61	96	6	6	-	-	10	10	800
	Cranwell ...	1007.6	+6	W	4	c	64	75	6	8	7	-	9	9+	5700
3	Cardington ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	1008.8	+6	WSW	2	c	65	68	8	8	-	-	9+	9+	4000
	Upper Heyford	1008.9	-2	W'N	3	c	66	75	8	8	-	-	9	9	2500
	Leafield ...	1009.0	+6	W'N	3	c	64	74	8	8	-	8	9	9+	4000
4	Ross-on-Wye ...	1009.4	+4	W'S	3	c	65	65	8	8	-	-	9+	9+	4000
5	Portland Bill...	1011.3	+4	WSW	5	c	60	85	8	2	-	-	7-8	7-8	2500
	Plymouth ...	1011.8	0	W	3	c	61	85	8	8	3	-	9	9+	1500
	Falmouth ...	1013.7	+2	WNW	3	bc	63	85	8	2	3	-	2-3	4-6	4000
	Scilly (St.Mary's)	1013.6	+6	W'N	3	c/p	60	95	8	5	6	-	4-6	7-8	2500
	Guernsey ...	1013.4	+2	WSW	4	o	64	85	7	5	-	-	10	10	2500
6	Pembroke ...	1010.9	+4	W	2	bc	61	85	8	5	6	1	2-3	4-6	2500
7	Holyhead ...	1009.3	+6	W	4	c	64	75	8	8	-	3	7-8	9	7200
	Chester (Sealand)	1008.7	+8	NW	4	c	61	85	8	5	-	-	9+	9+	2500
8	L'pool (Bidston)	1008.8	+4	W'N	4	c	60	85	8	7	3	-	7-8	9	2500
9	Harrogate ...	1006.7	+6	SSW	4	c	64	65	9	8	3	-	4-6	7-8	4000
10	Spurn Head ...	1006.2	0	NW	3	c	64	75	6	5	7	1	4-6	9+	4000
	Tynemouth ...	1005.3	+6	W	3	bc	67	65	7	9	-	-	4-6	4-6	2500
11	Inchkeith ...	1004.8	+6	WSW	3	bc	61	85	8	1	8	-	4-6	4-6	4000
	Leuchars ...	1004.3	+6	W	3	pr	69	65	8	8	2	1	4-6	7-8	2500
12	Renfrew ...	1006.4	+8	W	3	c	62	85	8	5	3	-	9	9	1500
	Eskdalemuir ...	1005.6	+8	WNW	4	bc	62	75	8	8	-	-	4-6	4-6	2500
13A	Tiree	1006.2	+8	W	3	c	59	85	8	5	7	-	4-6	7-8	1500
13B	Stornoway ...	1004.1	+8	W	3	c	58	85	8	8	2	-	7-8	10	1500
15	Dalwhinnie ...	1004.9	+18	S	1	c	63	65	8	6	1	-	7-8	10	2500
	Aberdeen ...	1003.8	+6	ESE	2	c	64	75	7	9	3	-	7-8	9	2500
	Wick	1003.9	+12	SW	2	c	55	95	8	8	7	-	4-6	7-8	1500
16	Lerwick ...	1001.0	+8	SW	1	c	56	85	8	8	-	-	9+	9+	1500
17	Blacksod Point	1008.9	0	WSW	4	c	61	85	8	4	-	-	9	9	1500
18	Malin Head ...	1007.3	+6	W'S	3	bc	60	85	8	8	8	9	4-6	4-6	2500
	Aldergrove ...	1008.0	+8	W'S	3	pr	60	85	7	6	1	-	7-8	9+	800
	Donaghadee ...	1007.9	+8	SE	1	c	62	85	7	5	-	-	7-8	7-8	2500
19	Birr Castle ...	1009.7	+2	WNW	3	c/pr	62	75	8	8	-	-	9+	9+	2500
20	Valentia Obsy.	1012.2	+2	W'S	3	c	59	85	8	5	-	1	7-8	7-8	1500
	Roches Point...	1011.3	+4	SW	2	c	61	85	9	6	-	-	7-8	7-8	2500

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

Barom. at M.S.L. mb. (15)	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)
1010.2	+2	WSW	1	c	67	65	8	4	3	-	7-8	9	2500	1	*
1010.0	+2	WSW	3	c	66	75	8	8	7	-	7-8	9+	4000	1	*
1010.4	+6	WSW	2	c	65	75	8	7	-	-	9+	9+	2500	1	*
1010.7	+2	SW'W	3	c	65	65	8	8	3	-	9	9+	2500	1	*
1010.8	+2	W	4	c	64	75	8	7	-	-	7-8	7-8	4000	0	*
1011.6	+2	SW	4	c	61	85	8	8	6	-	7-8	9+	1500	0	2
*	*	SW	4	c	*	*	7	8	7	*	4-6	7-8	1500	*	3
1010.9	+4	WSW	3	c	62	85	8	5	-	-	9+	9+	2500	0	*
1010.1	+6	W	2	c	67	75	7	5	3	-	4-6	9	4000	0	*
1009.6	+2	W'S	2	c	65	75	8	5	-	-	9+	9+	5700	1	1
1008.4	+4	WNW	2	c	64	75	6	4	-	-	10	10	2500	1	2
1008.7	+6	WSW	3	c	63	85	6	5	3	1	2-3	7-8	4000	0	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1010.2	+4	NNW	4	pr	62	75	8	3	6	-	7-8	9	2500	1	*
1010.5	+10	W'S	3	c/r	61	75	8	5	-	-	10	10	2500	1	*
1010.0	+6	W'S	2	c	61	85	8	7	-	-	9+	9+	5700	1	*
1010.1	0	WSW	2	c	63	75	9	8	-	-	9+	9+	4000	1	*
1011.7	-2	WSW	5	c	60	85	8	8	4	-	4-6	7-8	2500	0	4
1012.5	+2	WSW	3	c	60	85	8	8	-	-	9+	9+	2500	1	2
1013.9	-4	W'N	2	bc	60	95	9	3	3	-	4-6	4-6	4000	0	2
1013.7	-6	W'S	2	c	58	95	8	8	-	-	7-8	7-8	4000	1	2
1013.5	0	WSW	4	bc	62	85	8	5	-	1	4-6	4-6	2500	0	3
1010.9	-2	W	2	bc	60	85	8	4	8	8	1	4-6	2500	0	2
1010.0	-2	SW'S	3	c	61	85	9	8	-	3	7-8	7-8	4000	1	1
1009.8	+4	NW	3	bc	64	75	8	7	-	1	4-6	4-6	4000	0	*
1009.6	0	WNW	3	bc	63	75	9	1	-	3	Tr	2-3	5700	0	*
1007.8	+6	SSW	3	bc	63	65	9	2	-	2	1	2-3	4000	0	*
1007.5	+2	WNW	1	c	64	85	6	8	4	9	2-3	7-8	4000	10	1
1006.4	+10	W	3	bc	66	65	7	2	-	-	4-6	4-6	2500	0	1
1005.9	+2	WSW	3	bc	61	95	8	1	8	-	2-3	4-6	4000	0	2
1005.5	+6	W	1	c/pr	63	85	8	8	3	5	7-8	9	2500	1	*
1007.9	+10	W	2	c	61	85	8	8	7	1	9	9+	2500	1	*
1007.7	+8	WNW	3	c	59	75	8	4	4	1	7-8	9	4000	1	*
1006.7	+4	WSW	2	c	58	95	8	7	7	8	4-6	7-8	2500	0	1
1005.3	+2	W	2	c/p	57	95	9	8	2	-	7-8	10	1500	0	1
1006.1	+20	S	1	c	59	85	8	4	2	-	9	10	4000	0	*
1006.1	+6	ENE	2	ir$_o$	58	95	7	9	3	-	7-8	9	1500	1	1
1005.0	+8	WNW	1	r$_o$r$_o$	54	95	7	9	2	-	7-8	10	1500	1	1
1001.9	+10	W	1	pr$_o$	59	95	7	5	2	-	4-6	10	800	0	*
1008.8	0	W	3	c	58	85	9	8	-	1	4-6	7-8	1500	1	2
1007.5	0	W'S	3	id$_o$	58	95	7	5	-	-	9+	9+	1500	0	1
1008.3	+2	W'S	2	c	62	75	8	5	-	-	9	9	4000	1	*
1008.3	0	SE	1	bc	59	95	8	8	3	-	4-6	4-6	2500	0	0
1008.9	-2	SW	1	c/r	60	75	8	5	-	-	9+	9+	2500	1	*
1012.0	-2	W'S	3	c	59	85	8	5	-	-	9+	9+	1500	1	3
1011.1	-6	SW	2	c	62	85	9	6	-	-	7-8	7-8	2500	0	2

PAST 24 HOURS.

WEATHER.

7h.–13h. 30th (37)	13h.–18h. 30th (38)	18h. 30th to 1h. 31st (39)	1h.–7h. 31st (40)
oc	c	cPRcu	om$_o$
cr$_o$d$_o$pr$_o$	c	cm$_o$r$_o$bc	cm$_o$
d$_o$c cp$_o$	cyc p$_o$	c$_o$bcc	cwom$_o$
c	c	cbcc	co
c	cbc	c	cm$_o$fg
cpr$_o$c	cpr$_o$	cbcwc	c
p	bc	*	c
ordF	cr$_o$c	cm$_o$	ofc
cr$_o$m$_o$c	cbcc	c	cm$_o$
cbc	bcpr$_o$	c	c
oir$_o$q c	oprc	c	cm$_o$m$_o$
adcm$_o$	c$_3$oc	bebw	bwbc
*	*	c	cbcm$_o$
c	c	c	cbc
cr$_o$	cr$_o$	cbc	bccfc
d$_o$c	c	cbcw	bcc
cbcc	c cv	cvbv	bmFw
c	c	c	c
cir$_o$pR	c	c	cd$_o$
cbc ir$_o$	bc	bcc	cr$_o$m$_o$
cbcc	cp$_o$	d$_o$cid	cid$_o$
op$_o$bc	ocbc	oco	oc
bc	bbc	bcb	bbcc
c	cbcb	bcc	cm$_o$id$_o$c
c	cbc	bc	bcc
oc	bcbbv	bbc	c
cbc	cbc	bcb	bcc
circ	bc	cbc	bc
obcp	bcp	bc	bcc
cbc	bc	bcc	c
c	cvT+R	cbc	bcc
c	c cv	cbccw	com$_o$w
~~cpr bc~~ ~~cbc~~	bcc	cbbc	bcc
c	cbc	cp$_o$	co
c	c	cid	cpod
bc	bc		bc
bcepr$_o$	cPRm$_o$	cir$_o$	bird
c	cr$_o$r	cr$_o$rc	c
bcc	cpr$_o$m$_o$	c	c
idc	prc	id	ido
cbc	bccd$_o$c	cd$_o$mcrrd$_o$	cidm$_o$
d$_o$cpr$_o$	prbcc	c	cpr$_o$c
cpr$_o$c	pr$_o$bc	cir$_o$	cir$_o$c
cp$_o$	cr$_o$	c	c
cpr$_o$c	cp$_o$c	cir$_o$c	cr$_o$r$_o$
bcp$_o$cv.	cv	cvcgw	cg

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.
f$_s$, fog over sea (coast station).
f$_g$, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
k$_s$, 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).
⊕, Solar halo. ☾, lunar halo.

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 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. 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 $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu 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 Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

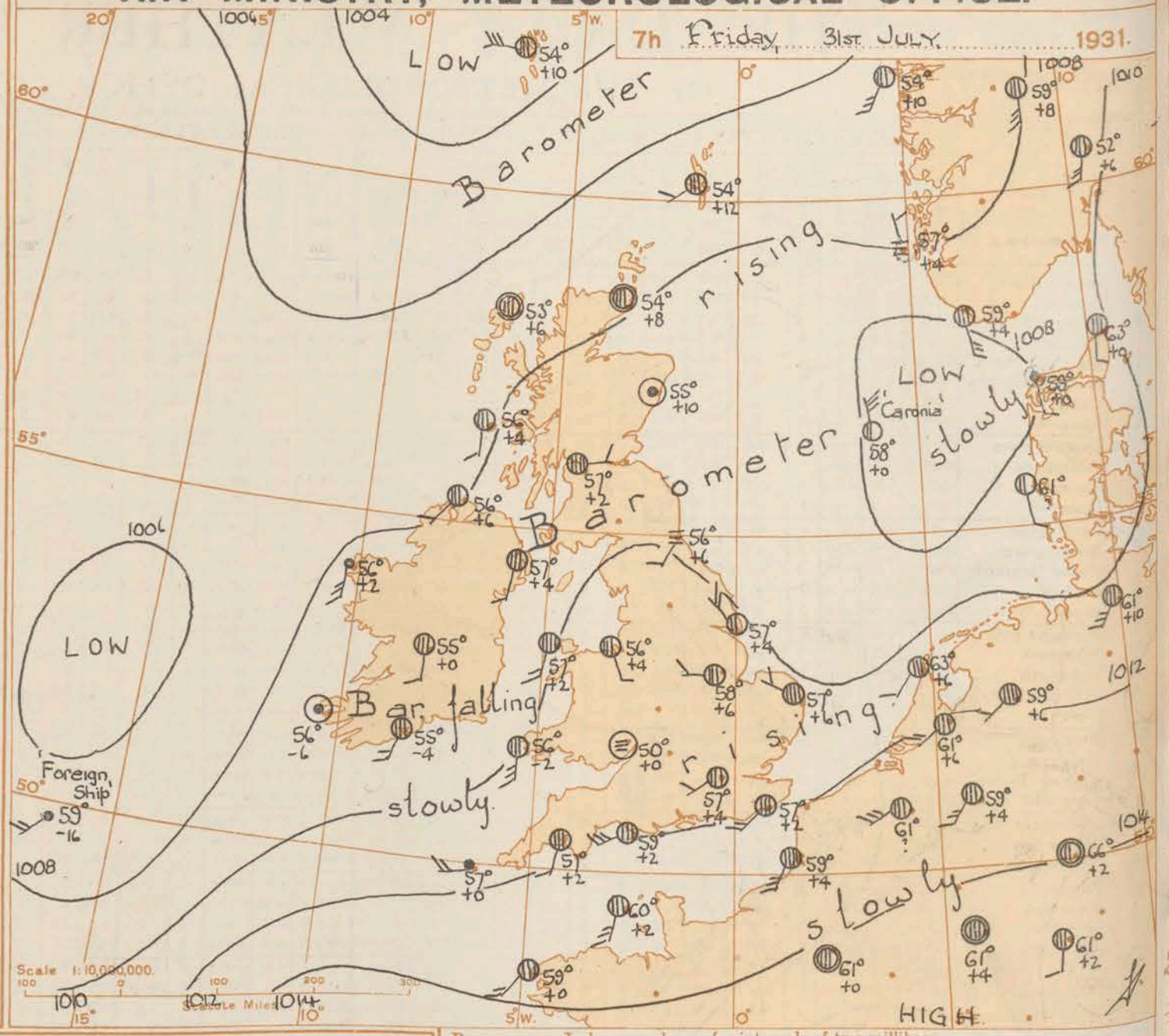
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 30h July 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 29h to 9h. 30h	Temperature. Max. 9h.—17h. 30h	Rainfall. Night. 17h. 29h to 9h. 30h	Rainfall. Day. 9h.—17h. 30h	Sunshine. Sunrise to 17h. 30h	Sunshine. Sunrise to Sunset. 29h
1	Tunbridge W.	oro	oco	55	67	1	0.5	0.3	5.5
	Bournemouth	cr	coc	57	66	2	0.5	1.5	5.8
	Ventnor ...	or	cbc	57	64	1	trace	4.5	3.5
	Southsea ...	bc	oc	58	66	2	-	2.0	5.4
	Bognor Regis	rcbc	co	57	67	2	trace	0.6	6.0
	Littlehampton	crbc	bcc	57	65	2	trace	1.0	6.6
	Worthing ...	oc	odo	58	66	2	trace	0.8	6.6
	Brighton ...	roc	cbcc	58	66	0.6	trace	1.3	6.3
	Eastbourne†	ocbc	bcco	57	66	1	-	3.3	7.4
	Hastings† ...	oproc	cbcc	56	66	0.6	0.5	2.2	6.1
	Folkestone ...	odmo	odoc	57	68	1	1	1.3	6.2
	Dover... ...	ro	ocbc	47	62	2	2	0.4	5.3
	Deal	dor	cbo	57	67	trace	0.3	1.0	4.6
	Ramsgate ...	cp	bcc	57	67	-	0.2	1.1	5.4
	Margate ...	cd	bcc	56	69	trace	trace	0.7	6.1
2	Southend ...	ocb	cp	57	67	1	0.2	1.2	3.9
	Maldon ...	oc	c	56	70	0.5	-	1.5	3.4
	Clacton-on-Sea	cpc	c	57	67	1	trace	1.5	3.4
	Dovercourt ...								
	Lowestoft ...	cpro	icroc	54	64	1	1	0.4	5.8
	Skegness ...	om	om	56	66	2	-	0.0	6.5
	Mablethorpe	orm	opm	56	67	6	1	0.3	5.7
	Cleethorpes ...	vor	oco	56	69	2	trace	1.4	5.2
3	Leamington S.	co	co	56	67	0.2	-	1.0	2.6
4	Cheltenham†	cpc	cip	56	67	0.5	trace	1.5	2.3
5	Bath	cbc	cb	58	68	2	-	3.5	2.0
	Weymouth ...	cbc	c	58	66	0.6	-	2.0	5.3
	Jersey ...	dc	dcbc	58	67	0.1	trace	2.4	10.7
	Torquay ...	rpbcc	cpcv	58	68	1	0.2	1.9	1.2
	Penzance ...	cb	b	57	66	3	-	6.8	1.4
	St. Ives ...	b	b	57	63	3	0.5	6.3	1.3
	Bude	ocbc	bc	57	62	3	-	6.0	1.9
	Ilfracombe ...	opc	bccbc	58	63	7	1	4.6	0.6
3	Aberystwyth	circ	cbc	56	64	4	-	3.7	0.1
7	Llandudno ...	oidc	bc	56	65	1	trace	4.4	0.9
	Colwyn Bay...	o	obcbc	55	66	1	-	3.0	0.5
	Rhyl								
8	Wallasey ...	cbc	bcb	56	65	0.3	-	4.2	0.2
	Southport‖ ...	oc	bc	57	63	0.2	-	4.0	0.8
	Blackpool ...	c	cbc	56	64	6	-	3.5	0.0
	Morecambe ...	cbbc	b	55	65	trace	-	4.7	1.1
9	Ilkley... ...	bcpc	cbc	57	67	trace	trace	4.7	2.9
10	Berwick-on-T.	bc	bc	52	69	trace	-	6.5	0.3
11	Dunbar ...	bc	bc	54	68	4	-	6.7	0.4
12	Douglas ...	cbcid	cbbc	53	66	6	trace	4.8	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 31st July, 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Light wind, mainly southwest to south, mainly cloudy, local showers or drizzle; rather close.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Light or moderate southerly wind; cloudy, local drizzle at first, some rain later; rather close.
8. N.W. England 9. N. Midlands 10. N.E. England	As 1 - 3.
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 wind; mainly cloudy, local showers and perhaps thunder; rather close.
16. Orkneys and Shetlands.	Light variable wind; mainly cloudy; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light or moderate south or southeast to variable wind; cloudy, occasional rain or drizzle; moderate temperature.

H.M. Stationery Office Press, Kingsway, W.C.2.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— ○Clear sky. ◔Sky less than 1/10 clouded. ◑Sky 1/10 to 4/10 clouded. ◕Sky 5/10 to 9/10 clouded. ●Overcast sky. ●Rain falling. ✳Snow. ▲Hail. ≡Fog. ≡°Mist. ⊤Thunder. ⊼Thunderstorm.
SEA DISTURBANCE. ∿∿Rough. ≈≈High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

Pressure is becoming rather uniform over the British Isles. A shallow depression off West Ireland is moving slowly eastward. Winds will be light and weather mainly cloudy with local showers or drizzle; rain is probable in the Southwest later.

FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 0910 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

Morning of
FRIDAY
July 31st
1931.

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

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

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.
⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 31st July 1931.

No. 25453

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

Dist.	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1011.6	+2	WSW	2	c	58	85	7	5	-	-	7-8	7-8	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	1012.2	+2	W	2	c	56	95	8	5	-	-	7-8	7-8	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1011.8	0	W'S	2	c	55	95	6	5	7	-	4-6	7-8	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	10099	+2	W'S	2	c	60	95	7	4	-	-	9+	9+	2500
	Cranwell ...	240	1010.7	+2	W	2	c	55	95	6	-	3	-	0	2-3	-
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1012.1	0	W	3	c	59	85	8	4	7	-	7-8	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1013.3	-2	WSW	2	c	56	95	7	5	-	-	10	10	4000
	Scilly(St.Mary's)	163	1012.6	-4	W'N'W	3	id.	57	95	7	5	-	-	9+	9+	4000
	Guernsey ...	175	1013.8	0	SSW	2	o	59	95	7	5	-	-	10	10	1500
6	Pembroke ...	142	1011.1	0	W	2	b	57	85	8	-	4	-	0	1	-
7	Holyhead ...	26	1010.1	0	-	0	c	57	95	8	6	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	10089	0	NW'W	4	bc	57	95	6	5	4	1	2-3	4-6	2500
	Tynemouth ...	67	10086	+6	W	2	bc	55	95	7	4	-	-	4-6	4-6	4000
11	Inchkeith ...	190	10079	+4	SW	3	c	56	95	8	5	2	-	2-3	7-8	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	10066	+4	-	0	c	54	95	8	8	-	-	9+	9+	1500
15	Dalwhinnie ...	1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	10063	+4	WNW	1	c	54	95	8	5	2	8	4-6	9	1500
16	Lerwick ...	54	10035	+4	SW	2	c	54	95	7	5	2	-	4-6	10	1500
17	Blacksod Point	18	10081	+2	WSW	2	id	55	95	7	6	-	-	10	10	4150
18	Malin Head ...	52	10076	-4	SW	1	c/d	56	95	7	8	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	10106	-6	W	3	o	56	95	8	5	-	-	10	10	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Dist.	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)...	1012.1	+10	SSW	1	o	58	95	5	5	-	-	10	10	1500	1	*
	Croydon ...	1011.8	+4	W'S	1	c	57	95	6	5	-	-	9+	9+	4000	0	*
	S. Farnborough	1011.6	+2	WSW	1	c	56	95	6	5	-	-	10	10	800	1	*
	Winchester ...	1011.9	+2	SW	1	o	56	95	6	5	-	-	10	10	800	0	*
	Boscombe Down	1012.0	+2	SSW	2	c	55	95	6	5	-	-	9+	9+	2500	1	*
	Calshot,(S'thmtn)	1012.0	+2	SW'W	2	c	58	85	8	5	3	-	7-8	9+	4000	0	0
	Dungeness ...	*	*	SW	1	c	*	*	7	5	7	*	4-6	7-8	4000	*	1
	Lympne ...	1011.8	+2	W'S	2	c	57	95	8	5	-	-	9+	9+	5700	0	*
2	Shoeburyness	1011.8	+6	SW'W	3	c	60	95	5	5	-	-	9	9	5700	0	*
	Felixstowe ...	1011.2	+4	W	1	c	59	85	7	5	-	-	7-8	7-8	4000	0	1
	Gorleston ...	1010.5	+6	WNW	1	c	57	95	6	5	-	-	10	10	2500	0	1
	Cranwell ...	1011.2	+6	W	1	c	58	95	6	-	3	1	0	7-8	-	0	*
3	Cardington ...	1010.9	+4	SW'W	1	bc	57	95	6	-	3	1	0	4-6	-	*	*
	Birmingham ...	1011.5	0	SSW	1	c	57	95	6	-	3	-	0	7-8	-	1	*
	Upper Heyford	1011.8	+2	SE	1	m/f	51	95	4	5	-	-	10	10	<1150	1	*
	Leafield ...	1011.2	+6	-	0	c	53	95	4	5	7	-	7-8	9	2500	1	*
4	Ross-on-Wye ...	1011.6	0	-	0	f-	50	95	3	5	3	-	7-8	9+	4000	1	*
5	Portland Bill....	1011.7	+2	W'S	3	c	59	85	8	4	7	-	7-8	10	2500	0	3
	Plymouth ...	1011.5	+2	SSW	1	c	57	95	7	5	-	8	9	9+	800	1	0
	Falmouth ...	1012.0	0	SW'S	2	c	55	95	7	5	2	-	4-6	10	4000	1	0
	Scilly(St.Mary's)	1011.2	0	W'S	2	id.	57	95	6	9	-	-	9+	9+	2500	1	2
	Guernsey ...	1012.9	+2	SSW	3	c	60	85	7	8	6	-	4-6	7-8	2500	0	3
6	Pembroke ...	1009.9	-2	S	2	c/pc	56	95	8	8	-	-	10	10	1500	1	1
7	Holyhead ...	1010.0	+2	SSW	2	c/d.	57	95	6	6	-	-	10	10	450	1	0
	Chester (Sealand)	1010.6	+4	SE'S	1	c	56	95	6	5	-	1	9	9+	4000	1	*
8	L'pool (Bidston)	1010.6	0	S	2	c	58	85	6	5	2	-	4-6	10	2500	1	0
9	Harrogate ...	1010.4	0	SSW	2	c	60	85	8	5	-	-	9	9	4000	0	*
10	Spurn Head ...	1010.1	+4	NW	2	bc	57	95	6	5	-	8	2-3	4-6	1500	0	1
	Tynemouth ...	1009.9	+6	WSW	1	f	56	95	3	6	-	-	7-8	7-8	1500	0	1
11	Inchkeith ...	1008.7	+6	SW	2	c	55	95	7	5	2	-	2-3	9	1500	0	1
	Leuchars ...	1008.8	+8	WSW	1	c	59	85	7	5	3	6	4-6	7-8	4000	1	*
12	Renfrew ...	1009.1	+2	E	1	o	57	95	5	5	-	-	10	10	1500	1	*
	Eskdalemuir ...	1009.2	+4	SW	3	c	57	85	7	8	-	2	4-6	7-8	800	1	*
13A	Tiree	1007.8	+4	S	1	c	56	95	7	5	2	-	4-6	10	1500	1	1
13B	Stornoway ...	1007.4	+6	-	0	c	53	95	9	4	-	-	9+	9+	1500	1	0
15	Dalwhinnie ...	1009.7	?	S	1	c	55	85	8	4	-	-	10	10	4000	0	*
	Aberdeen ...	1009.0	+10	-	0	ic	55	95	6	6	-	-	10	10	1500	1	1
	Wick	1007.7	+8	-	0	c	54	95	8	5	2	-	4-6	9+	1500	0	0
16	Lerwick ...	1006.9	+12	WSW	1	c	54	95	7	5	7	-	4-6	9+	1500	0	*
17	Blacksod Point	1008.3	+2	S	3	id.	56	95	8	6	-	-	10	10	<150	1	2
18	Malin Head ...	1007.9	+6	SW'W	1	c/d	56	95	7	9	2	-	9	10	1500	1	1
	Aldergrove ...	1009.1	+2	S'W	1	c	56	95	7	6	2	-	9	10	800	1	*
	Donaghadee ...	1008.8	+4	SW	1	c	57	95	8	5	-	-	7-8	7-8	1500	0	0
19	Birr Castle ...	1008.8	0	S	1	c	55	95	8	5	1	-	9	10	2500	0	*
20	Valentia Obsy.†	1009.4	-6	-	0	c/c	56	95	8	5	2	-	2-3	10	1500	1	2
	Roches Point...	1008.9	-4	SW	2	c	55	95	8	5	-	-	7-8	7-8	2500	0	2

PAST 24 HOURS.

Dist.	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 30th Hrs. (36)
1	London (Kew)...	70	55	53	-	2	1.6
	Croydon ...	68	55	55	Tr	Tr	1.2
	S. Farnborough	71	51	43	Tr	Tr	1.9
	Winchester ...	69	50	46	-	-	3.2
	Boscombe Down	68	50	43	-	-	*
	Calshot,(S'thmtn)	66	55	53	0.2	~~0.2~~ 1.2	*
	Dungeness ...	66	57	*	1	-	*
	Lympne ...	64	55	52	2	-	0.6
2	Shoeburyness	69	57	55	0.1	-	1.0
	Felixstowe ...	66	58	55	1	-	0.8
	Gorleston ...	64	57	55	3	-	0.3
	Cranwell ...	67	50	47	2	-	2.8
3	Cardington ...	*	*	*	*	*	*
	Birmingham ...	65	55	47	Tr	-	1.5
	Upper Heyford	68	47	41	Tr	Tr	*
	Leafield ...	65	49	38	Tr	-	1.6
4	Ross-on-Wye ...	67	47	43	-	-	4.0
5	Portland Bill....	61	58	*	-	-	*
	Plymouth ...	63	56	54	1	Tr	1.4
	Falmouth ...	64	55	*	Tr	0.1	2.7
	Scilly(St.Mary's)	63	55	*	0.6	0.1	4.4
	Guernsey ...	66	58	56	Tr	-	6.6
6	Pembroke ...	62	55	*	-	0.2	8.1
7	Holyhead ...	65	57	54	-	0.1	6.3
	Chester (Sealand)	65	55	47	-	-	5.0
8	L'pool (Bidston)	63	55	52	-	-	7.2
9	Harrogate ...	67	53	46	-	-	9.3
10	Spurn Head ...	65	55	*	1	-	2.0
	Tynemouth ...	72	54	52	0.6	-	*
11	Inchkeith ...	62	53	51	-	-	11.1
	Leuchars ...	70	52	45	9	-	4.8
12	Renfrew ...	66	51	~~44~~ 43	-	-	4.2
	Eskdalemuir ...	63	50	44	0.4	-	2.2
13A	Tiree	61	54	52	-	0.1	5.0
13B	Stornoway ...	60	52	*	-	Tr	0.3
15	Dalwhinnie ...	63	50	40	-	-	6.0
	Aberdeen ...	64	55	54	9	2	0.7
	Wick	59	52	*	2	0.1	*
16	Lerwick ...	57	53	*	-	-	1.5
17	Blacksod Point	61	54	*	1	0.6	*
18	Malin Head ...	60	54	*	Tr	4	2.5
	Aldergrove ...	67	54	51	1	0.3	2.8
	Donaghadee ...	63	53	*	1	1	*
19	Birr Castle ...	63	53	47	Tr	-	3.5
20	Valentia Obsy.†	61	55	52	Tr	4	1.9
	Roches Point...	62	53	*	Tr	Tr	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	oc	c	cPRain	70	55	53	-	2	1.6	*	*	6
Croydon	217	cro.dpc	c	crbccm	68	55	55	Tr	Tr	1.2	*	*	6
Greenwich (Royal Observatory) ...	149	cp	c	cpc	71	55	52	3	Tr	1.3	62	83	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	1.7	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	69	56	54	---	---	2.1	65	86	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	1.6	*	*	*
Camden Square	110	ccp	c	*	69	56	55	0.3	-	*	*	89	*
Kensington	80	bc	cpbc	*	69	55	51	0.6	0.3	2.3	At 18h. 69	91	*
Hampstead Observatory	450	cor	bcpc	*	67	52	47	1	Tr	2.0	*	95	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 31st

South Kensington. Max.	Time.	Min.	Time.
Defective Record			

Kew Observatory. Max.	Time.	Min.	Time.
0.1	15h 30m	<0.1	2.5h 31st

FOREIGN OBSERVATIONS.

18h. G.M.T. 30th July — 7h. G.M.T. 31st July — Past 24 Hours.

Stations	18h. Barom. mb.	18h. Wind. Direc.	18h. Wind. Force.	18h. Weather.	18h. Temp. °F.	7h. Barom. mb.	7h. Wind. Direc.	7h. Wind. Force.	7h. Weather.	7h. Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	1013.8	W	3	c	66	1014.1	-	0	c	61	73	59	-	1
Brussels	1011.5	WSW	3	c	64	1013.1	WSW	3	c	61	72	52	Tr	-
Berlin	1012.5	S	1	cjp	68	1013.0	SSW	1	b	64	73	57	-	-
Zürich	1013.5	NE	1	bc	70	1014.3	S	1	bc	63	79	59	-	-
Rome	1013.8	W'S	2	b	79	1014.1	NE	1	b	66	86	57	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	„
2	Fog	550	„
3	Moderate fog	1,100	„
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	„
6	Moderate „	6½	„
7	Good „	12½	„
8	Very good „	31	„
9	Excellent „	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† : hr observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION.
ADDITIONS & CORRECTIONS.
July, 1931.

I.—ADDITIONS.

Stations.	Date of Report.	Obsn. Date.	Obsn. Hour.	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force. 0-12	Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud. Form. Low.	Form. Med.	Form. High.	Amount. Low. 0-10	Amount. Total 0-10	Height of Base (feet)	State of Ground. 0-9	Sea. 0-9	Temperature. Max. Day 7h-18h °F.	Temperature. Min. Night. 18h-7h °F.	Temperature. Min. on Grass °F.	Rainfall. Day 7h-18h mm.	Rainfall. Night 18h-7h mm.	Sunshine. Hrs.	Weather. 7h-13h	Weather. 13h-18h	Weather. 18h-1h	Weather. 1h-7h
RENFREW	2nd	1st	18h	1011.4	-1.4	WSW	2	ir$_o$	55	95	6	6	2	-	7·8	10	1500	1	*	60									
STORNOWAY.	16th	16th	7h	1008.5	+2	WNW	1	c	54	85	9	7	6	-	4·6	7·8	2500	0	1	62	52		0.2	Tr	4·8				c
"	17th	17th	7h	1005.9	-8	-	0	c	55	95	8	2	6	-	4.6	9+	1500	1	0	61	51		0.5	0.5	0·3				c
SPURN HEAD	19th	18th	18h	1005.3	*	NW'N	5	c	61	85	7	4	4	9	2.3	9+	4000	0	3				Tr				cq		
BOSCOMBE DOWN	21st	20th	18h	1016.0	+1.4	N	3	c/r	56	95	7	8	-	-	9+	9+	2500	*									cr$_o$		
"	"	21st	7h	1021.1	+1.0	NW	2	b	51	95	7	5	-	-	1	1	7200	0			44	37		-				b	b
WINCHESTER	22nd	"	18h	1021.4	+4	WNW	3	c	63	55	8	7	-	6	1	9+	5700	0									cy		
"	"	22nd	7h	1020.8	+2	SW	2	c	59	85	8	5	2	-	9+	10	1500	0		65	55	54		-	8·5			c	c
BOSCOMBE DOWN.	"	"	"	1020.6	0	SW	3	c	58	95	7	5	-	-	10	10	1500	0			54	53		Tr				cir$_o$	co
WINCHESTER.	23rd	"	18h	1018.4	-1.0	SSW	4	b	63	75	8	1	-	5	1	1	2500	0									cbcb		
ESKDALEMUIR.	27th	26th	18h	996.7	-2	NW	3	c	59	65	8	7	4	-	1	7·8	2500	1									c		
STORNOWAY.	30th	29th	13h	1000.5	-8	SW	4	c.	58	95	8	6	2	-	7·8	9+	800									c			

II.—CORRECTIONS.

Date of Report.	Page.	Station.	Col. No.	Correct Entry.
1st	1	CALSHOT	7	6S
		BIRMINGHAM	17	NE
		LEAFIELD	40	bcw
		PLYMOUTH	38	bcb
		"	39	bo
		FALMOUTH	28	4000
		PEMBROKE	24	7
		SPURN HEAD	4	ESE
		ALDERGROVE	38	cr$_o$r$_o$c
	4	PLYMOUTH	32	50
		STORNOWAY.	14	1500
		DALWHINNIE	36	1·0
2nd	1	CALSHOT	9	2
		"	12	1
		"	13	1
		"	37	cm$_o$bcy
		LEAFIELD	7	45
		PLYMOUTH	40	bwcvr
		SPURN HEAD	3	SE'S
		"	19	cjp
		TYNEMOUTH	14	2500
		RENFREW	37	cm$_o$d$_o$c
		ESKDALEMUIR.	40	or$_o$rd
		DALWHINNIE	1	1012·9
		"	12	10
		"	13	10
		"	14	450
		ALDERGROVE	10	T
		"	11	-
	4	WINCHESTER	16	-6
		PORTLAND BILL	11	S
		GUERNSEY.	20	59
		HOLYHEAD	16	-12
		"	34	Tr
		SPURN HEAD	19	C
		"	26	4-6
		"	27	7-8
		LEUCHARS	36	0·1
		ESKDALEMUIR	15	1003·1
3rd	1	CALSHOT	38	C
		LEAFIELD	26	4-6
		HOLYHEAD	37	fembc
		TIREE	21	85
		DALWHINNIE	17	SE
		VALENTIA	10	-
	4	BOSCOMBE DOWN	32	55
		DUNGENESS	30	1
		GORLESTON	11	6
		BIRMINGHAM	15	1008.2
		TYNEMOUTH	30	1
		INCHKEITH.	33	49
		ESKDALEMUIR.	34	35
		TIREE	15	995·7
		DALWHINNIE	36	1·0
4th	1	SEALAND	38	cir$_o$
		DALWHINNIE	38	4000
		ALDERGROVE	39	bc cpr$_o$
4th	4	S. FARNBORO.	18	3
		DUNGENESS	30	2
		FALMOUTH.	17	SW'W
		SEALAND	17	SW'W
		LERWICK	19	f
		ROSS on WYE	27	9+
		BIRMINGHAM.	37	cor
		DALWHINNIE.	4	2
		S. FARNBORO	35	0·5
		GORLESTON	1	1010.5
		"	4	1
		DALWHINNIE	28	450
		"	31	59
		ABERDEEN	34	Tr
		VALENTIA.	23	8
6th	1	WINCHESTER	6	63
		"	7	75
		ROSS on WYE	15	1008.6
		"	20	62
		FALMOUTH	12	4-6
		"	13	4·6
		SCILLY.	28	2500
		TIREE	26	4·6
		"	27	9
	4	SEALAND	34	5
		TIREE	36	7·8
		MALIN HEAD	32	53
		ROCHES POINT	28	2·3
7th	1	BOSCOMBE DOWN	37	omcpr
		CRANWELL	8	8
		LEAFIELD	25	-
		ROSS-ON-WYE	3	W'N
		PORTLAND BILL	7	85
		PEMBROKE	20	59
		SEALAND	40	cwm$_o$
		STORNOWAY.	26	4-6
		LERWICK	20	53
		BLACKSOD POINT	28	2500
		BIRR CASTLE	1	1009.1
		ROCHES POINT.	38	bcv
		"	39	bcvb
	4	S. FARNBORO.	36	9·5
		LYMPNE	17	WSW
		GORLESTON	21	95
		CRANWELL	36	6·8
		BIRMINGHAM	33	43
		UPPER HEYFORD	31	65
		"	34	3
		LEAFIELD	27	7·8
		SEALAND	35	-
		DALWHINNIE	21	95
8th	1	7h - 13h	37	7th
		13h - 18h	38	7th
		18h - 1h	39	7th - 8th
		1h - 7h	40	8th
		BOSCOMBE DOWN	37	cfe bcc
		BIRMINGHAM	1	1006.6
8th	1	BIRMINGHAM	26	7-8
		"	17	SW
		UPPER HEYFORD	17	NW
		LEAFIELD	20	54
		"	37	bccr
		TIREE	23	5
		STORNOWAY.	22	7
		LERWICK.	19	f
		ROCHES POINT	39	cvr$_o$c
	4	LYMPNE	34	Tr
		LEAFIELD	29	0
		SPURN HEAD	1	1004.1
		"	3	NW'N
		"	26	4-6
		DALWHINNIE	32	48
		"	36	0·6
9th	1	LYMPNE	3	WSW
		CRANWELL	37	cm$_o$j$_o$
		PORTLAND BILL	7	75
		INCHKEITH	38	Frr
		TIREE	24	2
	4	BOSCOMBE DOWN	33	39
		LYMPNE	10	3
		SHOEBURYNESS	17	W'S
		BIRMINGHAM	26	4-6
		ROSS-ON-WYE	18	2
		PEMBROKE	34	Tr
		TYNEMOUTH	28	1500
		TIREE	33	48
		DALWHINNIE	35	Tr
		ALDERGROVE	26	9
		"	27	10
10th	1	BIRR CASTLE	15	1008.2
		S. FARNBORO	39	cb, c
		CALSHOT	4	3
		FELIXSTOWE	39	bcy
		GORLESTON	40	bc, c
		PORTLAND BILL	30	3
		FALMOUTH	1	1010·0
		SCILLY.	3	W
		"	30	2
		RENFREW	39	C
		ROCHES POINT	5	bc
	4	BOSCOMBE DOWN	34	Tr
		LYMPNE	21	85
		"	26	10
		"	27	10
		FELIXSTOWE	17	WSW
		UPPER HEYFORD	32	56
		FALMOUTH	18	5
		SCILLY.	32	56
		GUERNSEY.	28	450
		TYNEMOUTH	17	NE
		LEUCHARS	32	50
		RENFREW	36	*
		STORNOWAY.	3	NE
		LERWICK	27	9+
10th	4	BLACKSOD Pt.	17	W
11th	1	SHOEBURYNESS	7	6S
		BIRMINGHAM	1	1011.0
		PORTLAND BILL	13	7-8
		SCILLY.	25	1
		"	38	r$_a$mbc
		RENFREW	40	o r$_d$m
		LERWICK.	4	3
		MALIN HEAD	20	75
	4	S. FARNBORO	26	1
		BOSCOMBE DOWN	34	0·4
		SHOEBURYNESS	23	6
		GORLESTON	17	W
		CRANWELL	22	6
		LEAFIELD	35	Tr
		FALMOUTH	15	1017.3
		"	20	57
		GUERNSEY.	34	4
		LEUCHARS	17	NE
		"	28	<1SC
		"	32	51
		STORNOWAY.	5	bc
		"	13	2·3
		DALWHINNIE.	29	0
		BLACKSOD Pt.	6	53
		BIRR. CASTLE	19	bc
		ROCHES POINT	32	53
12th	1	BIRMINGHAM	15	1015.1
		LEAFIELD	25	R
		PLYMOUTH	7	85
		"	37	cr$_o$c
		"	39	or$_o$r$_o$c
		PEMBROKE	38	orrc
		INCHKEITH	23	5
		TIREE	7	75
		ABERDEEN	21	53
		MALIN HEAD	3	NE
		DONAGHADEE	22	7
		"	28	1500
	4	CALSHOT	24	R
		CRANWELL	3	S'E
		PEMBROKE	35	15
		STORNOWAY.	35	Tr
		DALWHINNIE.	35	5
		ABERDEEN	32	53
		LERWICK	20	51
		DONAGHADEE	17	SSW
		VALENTIA	21	95
13th	1	CALSHOT	15	1007.7
		BIRMINGHAM	40	r$_o$
		LEAFIELD	13	9+
		"	38	cpv
		PORTLAND BILL	9	7
		FALMOUTH	22	8
		DALWHINNIE	5	r
	4	BOSCOMBE DOWN	16	-4
		"	18	4
13th	4	CRANWELL	5	r$_o$r$_o$
		"	16	+10
		LEUCHARS	21	7S
		"	25	6
		DONAGHADEE	34	0·1
14th	1	DUNGENESS	30	3
		PLYMOUTH	1	1008.4
		FALMOUTH	12	4-6
		"	13	7-8
		SCILLY.	40	bccr
		HARROGATE	15	1004.5
		SPURN HEAD	20	59
		DALWHINNIE	26	7-8
		"	27	10
		ABERDEEN	38	cprtbc
		MALIN HEAD	1	1000.1
		BIRR CASTLE	39	rrtloir
		VALENTIA	14	1500
		ROCHES POINT	28	1500
	4	STORNOWAY	6	45
15th	1	CRANWELL	27	7-8
		LIVERPOOL	1	999.2
		ALDERGROVE	39	cprbc
		BIRR CASTLE	39	ca$_o$
	4	PORTLAND BILL	2	+10
		FALMOUTH	2	+6
		"	3	WNW
		SPURN HEAD	35	13
		STORNOWAY.	36	14·7
		BLACKSOD POINT	31	61
		DONAGHADEE	34	1
		ROCHES POINT	15	1004.3
16th	1	WINCHESTER	38	cprtR
		CALSHOT	1	1001.4
		HOLYHEAD	13	9+
		"	40	bm$_o$wb$_o$c
		LIVERPOOL	39	cp$_o$cc
		SPURN HEAD	39	C
		ESKDALEMUIR	1	1003.6
		"	15	1005.0
		STORNOWAY	24	-
		DALWHINNIE.	28	450
		VALENTIA	15	1013.0
	4	LYMPNE	21	85
		ROSS-ON-WYE	20	59
		LERWICK	21	85
		"	36	1·7
		BIRR CASTLE	32	52
17th	1	BOSCOMBE DOWN	6	65
		DUNGENESS	3	W
		SCILLY.	19	a$_o$r
		HOLYHEAD	22	8
		"	28	ANW
		LIVERPOOL	39	c cp$_o$c
		BIRR CASTLE	14	2500
	4	LYMPNE	33	53
		"	36	7·3

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION.
ADDITIONS & CORRECTIONS.
July, 1931.

II—CORRECTIONS.

Date of Report.	Page.	Station.	Col. No.	Correct Entry.
17th	4	SHOEBURYNESS	29	i
		FALMOUTH	31	65
		PEMBROKE	2	+4
		DALWHINNIE	34	10
		ABERDEEN	34	0.1
18th	1	CROYDON	26	7-8
		BOSCOMBE DOWN	3	W
		GORLESTON	3	W'N
		BIRMINGHAM	5	osp
		"	39	oc
		SEALAND	39	co
		LIVERPOOL	1	1010.9
		ESKDALEMUIR	38	cirm$_o$
		"	39	crrodm$_o$
		"	40	odm$_o$c
		DALWHINNIE	14	1500
		DONAGHADEE	12	9
		"	13	9
		ROCHES POINT	37	coid
	4	BOSCOMBE DOWN	15	1010.1
		CROYDON	31	64
		SPURN HEAD	9	9
		LERWICK	21	75
19th	1	DUNGENESS	30	3
		BIRMINGHAM	10	–
		TIREE	9	8
		DALWHINNIE	26	7-8
		"	27	10
		VALENTIA	6	59
	4	GUERNSEY.	34	2
		HOLYHEAD	29	1
		SPURN HEAD	34	Tr
		TYNEMOUTH	32	53
		INCHKEITH	33	49
		DALWHINNIE	31	58
		"	34	1
		"	35	Tr
		DONAGHADEE	20	54
20th	1	WINCHESTER	39	cprbcb
		CRANWELL	17	NW
		SEALAND	14	2500
		HARROGATE	23	9
		TIREE	1	1006.2
		DALWHINNIE	12	7-8
		"	13	7-8
		LERWICK	6	51
		ALDERGROVE	17	NW'W
		"	39	cpr$_o$c
		ROCHES POINT	15	1010.6
	4	PORTLAND BILL	4	S
		FALMOUTH	21	95
		SCILLY.	32	55
		LERWICK	6	47
		"	29	1
21st	1	ESKDALEMUIR	40	b$_2$cir$_o$
		TIREE	19	pr$_o$
		VALENTIA	22	8
	4	DALWHINNIE	28	4000
22nd	1	KEW	1	1021.2
		LEAFIELD	17	WSW
		"	18	3
		"	23	4
		FALMOUTH	21	75
		HOLYHEAD	37	C
		ABERDEEN	39	orro
		MALIN HEAD	29	1
	4	FALMOUTH	15	1021.8
		GUERNSEY	17	SW
		MALIN HEAD	1	1011.4
		ROCHES POINT	30	3
23rd	1	BIRMINGHAM	10	–
		RENFREW	7	75
		"	11	9
		DALWHINNIE	17	N
		"	18	2
23rd	4	WINCHESTER	31	67
		"	34	Tr
		LEAFIELD	24	–
		"	25	–
		ESKDALEMUIR	32	52
		BLACKSOD POINT	34	13
24th	1	SHOEBURYNESS	7	65
	4	DUNGENESS	24	7
		GORLESTON	20	60
25th	1	S. FARNBORO	39	bccr$_o$
		PLYMOUTH	30	2
		PEMBROKE	13	9+
		"	14	S
		LEUCHARS	38	c, cm$_o$
		RENFREW	13	7-8
		LERWICK	15	1006.0
		BIRR CASTLE	39	cr$_o$c.
	4	TYNEMOUTH	17	SSE
		DALWHINNIE	34	Tr
		BLACKSOD POINT	31	61
26th	1	BOSCOMBE DOWN	3	W
		LEAFIELD	37	or$_o$r$_o$c
		"	40	bcc
		PLYMOUTH	37	crpr
		ESKDALEMUIR	6	63
		LERWICK	5	cf
		ALDERGROVE	37	r$_o$m$_o$c
	4	GUERNSEY	23	6
		ESKDALEMUIR	31	63
		DALWHINNIE	35	Tr
27th	1	BIRR CASTLE	36	2.9
		KEW	10	2
		SPURN HEAD	14	SW'W
		RENFREW	39	cvcr
		"	40	r$_o$c
		DALWHINNIE	19	r
		"	27	7.8
		MALIN HEAD	37	bccv
	4	FELIXSTOWE	32	56
		GORLESTON	33	54
		SPURN HEAD	21	85
		"	29	0
		ESKDALEMUIR	31	65
		"	34	–
		LERWICK	29	1
28th	1	DUNGENESS	30	3
		GORLESTON	10	9
		LEAFIELD	15	1005.9
		INCHKEITH	7	85
	4	WINCHESTER	22	8
		LYMPNE	16	+18
		TIREE	31	55
		DALWHINNIE	31	56
		"	33	40
		MALIN HEAD	35	0.3
		ROCHES POINT	31	63
29th	1	BOSCOMBE DOWN	40	cbcw
		LYMPNE	38	cv
		LEAFIELD	20	56
		RENFREW	22	7
		"	38	cpr$_o$c
		"	39	c
		"	40	co
		STORNOWAY	15	1006.9
		DALWHINNIE	7	75
		ALDERGROVE	17	W'N
		ROCHES POINT	25	9
	4	S. FARNBORO.	27	2.3
		UPPER. HEYFORD	32	48
		DALWHINNIE	31	(58)
		"	32	51
30th	1	GORLESTON	37	bbcc
		"	39	oir$_o$qc
		ROSS-ON-WYE	39	p$_o$oid
			40	cp$_o$c
30th	1	PORTLAND BILL	5	c|pr
		PEMBROKE	6	59
		SEALAND	40	cbc
		RENFREW	39	crr$_o$c
		DALWHINNIE	3	NE
		BLACKSOD POINT	28	800
	4	BOSCOMBE DOWN	32	55
		DUNGENESS	32	57
		FELIXSTOWE	16	-10
		BIRMINGHAM	15	1007.8
		LEAFIELD	17	SW
		FALMOUTH	6	59
		SPURN HEAD	35	1
		RENFREW	32	65
		DALWHINNIE	33	38
31st	1	S. FARNBORO.	39	cp$_o$bcc
		GUERNSEY.	19	bc
		"	27	4-6
		SPURN HEAD	29	0
		RENFREW	38	ccv
		ESKDALEMUIR	37	cprbc
		TIREE	7	85
		"	21	95
	4	S. FARNBORO	29	1
		"	35	Tr
		CALSHOT	35	–
		"	36	1.1
		RENFREW	33	44
1st	2	PORTLAND BILL	5	c|pr
		PEMBROKE	6	59
3rd		SEALAND	40	cbc
		RENFREW	39	crr$_o$c
7th		DALWHINNIE	3	NE
8th		BLACKSOD POINT	28	800
		BOSCOMBE DOWN	32	55
9th		DUNGENESS	32	57
10th		FELIXSTOWE	16	-10
11th		BIRMINGHAM	15	1007.8
		LEAFIELD	17	SW
12th		FALMOUTH	6	59
13th		SPURN HEAD	35	1
		RENFREW	32	65
		DALWHINNIE	33	38
15th		S. FARNBORO.	39	cp$_o$bcc
		GUERNSEY.	19	bc
17th		"	27	4-6
		SPURN HEAD	29	0
18th		RENFREW	38	ccv
		ESKDALEMUIR	37	cprbc
21st		TIREE	7	85
23rd		"	21	95
		S. FARNBORO	29	1
25th		"	35	Tr
26th		CALSHOT	35	–
28th		"	36	1.1
		RENFREW	33	44
29th		TUNBRIDGE WELLS		SUN To 17h 4.3
30th		"		" " SUNSET. 4.3
		CLEETHORPES		" " " 0.5
		SOUTHPORT.		MAX 60

HEALTH RESORTS

Date of Report.	Page.	Station.	
2		BOURNEMOUTH	MAX. 70
		CLACTON-ON-SEA	SUN To 17h 10.4
3rd		DUNBAR	SUN To 17h 1.6
7th		FOLKESTONE	MAX .71
8th		ILFRACOMBE	MIN 55
		WALLASEY.	" 53
9th		JERSEY.	WEATHER. FORENOON. bcpc
10th		BUDE	MIN. 48
11th		RHYL	MAX 66
		DUNBAR	WEATHER. FORENOON cr$_o$m$_o$ AFTERNOON or$_o$m$_o$
12th		BATH.	SUN To 17h 45
13th		SKEGNESS	ocm$_o$ obctlR. 60. 70. – 32. 2.5. 9.6
		BATH	SUN To SUNSET. 6.0
		MORECAMBE	rrcbc brrcr 59 64 8. 6. 0.4. 7.5
15th		CLACTON-ON-SEA	SUN To 17h 5.2
		WALLASEY.	" " " 6.6
17th		LOWESTOFT.	RAINFALL 9h – 17h –
		BLACKPOOL	" 17h – 9h 0.2
18th		MARGATE	WEATHER AFTERNOON. cd
		COLWYN BAY.	SUN To 17h 0.9
21st		VENTNOR	" " " 10.5
23rd		BRIGHTON	" " " 6.5
		SOUTHEND	MIN 56
		PENZANCE	MAX 65
25th		MORECAMBE	WEATHER. AFTERNOON. bbcc RAINFALL 9h-17h. –
26th		WORTHING	" " orbco " 17h – 9h. 9
28th		BOURNEMOUTH	" " bdc
		BUDE	" " cpbc.

LONDON Observations

4th	4	WESTMINSTER	Sunshine. 14.8
5th		"	71. 61. 58. –. –. 78% 80%
		REGENTS PARK	Sunshine. 2.5
7th		GREENWICH	HUMIDITY. 49% 63%
10th		"	MAX. 77
12th		KEW	9h VISIBILITY. 8
		"	POLLUTION. MAX. 0.1 1hr 12th. MIN. <0.1 Rest of period.
		WESTMINSTER	72. 60. 54. – – 5.8 52% 70%
		CITY	Sunshine. 5.7.
		REGENTS. PARK	" 7.2
		HAMPSTEAD	" 5.7
		CAMDEN SQ.	C. C. 76. 59. 54. – – 71%.
13th		HAMPSTEAD	Sunshine. 6.3
18th		CROYDON	MAX 64.
19th		KEW	9h Visibility 7
		"	POLLUTION. MAX 0.1 15h 18th MIN. <0.1 0-3h 19th
		WESTMINSTER	65. 56. 53. 0.5 24h 84% 82%
		CAMDEN SQ	C ccp 63. 55. 53. 2 – 87%
		REGENTS PARK	Sunshine. 0.0
26th		"	" 0.6
		WESTMINSTER.	68. 59. 58. 8.6 24h 69% 71%
		CAMDEN SQ.	OC. COR. 67 57. 57. 0.1 24h. 76%
27th		KEW	9h Visibility 8.
		"	POLLUTION. MAX. 0.1 4h. 27th MIN. <0.1 22h. 26th
29th		REGENTS PARK	Sunshine 2.1

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