M.O. Form 2373

SECRET

THE DAILY WEATHER REPORT

BRITISH SECTION

1st July to 30th September

1943

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

INTRODUCTION

The Daily Weather Report has been issued in three sections since April 1st, 1919, the British and International Sections consisting of four pages and the Upper Air Section of two pages. On 1st January, 1942, all three sections were modified. The International Section was reduced to two pages of charts supplemented at eight-day intervals by a four page tabular statement of foreign observations. The Upper Air Section was increased to four pages giving two pages of charts and diagrams and two pages of observations in tabular form. The British Section of which this forms the Introduction was modified by increasing the scale of the chart on page 2 so that it occupies the whole page, and in consequence the weather forecasts have been transferred to the front page and the table of auxiliary reports to the back page. The various codes which were formerly given on pages 1 and 4 are now incorporated in this Introduction. The increased scale of the chart on page 2 makes it possible to show the observations from a selection of stations in full, the data being set out in accordance with the "station model" adopted by the International Meteorological Conference at Warsaw in September, 1935.

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. 1 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 below, where the column numbers are shown in connexion with each of the separate classes of observation. Observations in abridged form for a further selection of stations are printed on the lower part of page 4, and can be interpreted by reference at the head of the columns and to the explanation below.

Barometric Tendency—(Columns 2 and 17)
The Barometric tendency is expressed in tenths of a millibar.

Code for wind direction (DD)
Abridged observations (page 4).

Code Number	Direction	Code Number	Direction
00	Calm	16	S
		17	S by W
01	N by E	18	SSW
02	NNE	19	SW by S
03	NE by N	20	SW
04	NE	21	SW by W
05	NE by E	22	WSW
06	ENE	23	W by S
07	E by N	24	W
08	E	25	W by N
09	E by S	26	WNW
10	ESE	27	NW by W
11	SE by E	28	NW
12	SE	29	NW by N
13	SE by S	30	NNW
14	SSE	31	N by W
15	S by E	32	N

Note 33 is added to DD to denote unusual gustiness, and 67 is added if a definite squall or line squall has occurred during the preceding hour.

Code for Height above ground of base of cloud (h) Abridged reports (page 4).

0	...	0— 150 feet
1	...	150— 300 ,,
2	...	300— 600 ,,
3	...	600—1,000 ,,
4	...	1,000—2,000 ,,
5	...	2,000—3,000 ,,
6	...	3,000—5,000 ,,
7	...	5,000—6,500 ,,
8	...	6,500—8,000 ,,
9	...	above 8,000 feet or no low cloud

Code for cloud amount (N_h and N).
Abridged reports (page 4).

0	...	0.	7	... More than 9 but with openings.
1	...	Trace.	8	... 10 tenths.
2	...	1 tenth.	9	... Sky obscured by fog, dust storm or other phenomenon.
3	...	2, 3 tenths.		
4	...	4, 5, 6 tenths.		
5	...	7, 8 tenths.		
6	...	9 tenths.		

Code for state of ground (E)—Column 31.

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

Form of Low Cloud (C_L) – Columns 10, 25, and abridged reports (page 4).

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

Form of High Cloud (C_H) – Columns 11, 27

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

Form of Medium Cloud (C_M) – Columns 11, 26, and abridged reports (page 4).

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

Cloud Form Abbreviations

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

Cloud Amount – Columns 13, 14, 28, 29.
Columns 13, 28. The figures in these columns indicate the amount of cloud at the height given in Columns 15, 30.
Columns 14, 29. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6 tenths; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies sky covered but with a few small openings.

Code for Horizontal Visibility (V)—Columns 9, 24, and abridged reports (page 4).

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

Code for State of Sea (S)—Column 32

0	Calm—glassy.	5	Rough.
1	Calm—rippled.	6	Very rough.
2	Smooth.	7	High.
3	Slight.	8	Very high.
4	Moderate.	9	Phenomenal.

Rainfall—Columns 36, 37
Tr: = rain has fallen, but amount less than 0·1 m.m.

Beaufort Notation and Symbols for Weather—Columns 5, 20, 39, 40, 41, 42.

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

Explanations of the symbols used for cloud forms in the chart on p 2, will be found in Form 2459, "Instructions for the Preparation of Weather Maps." H.M. Stationery Office. Price 1/- net.

THE BEAUFORT SCALE OF WIND FORCE [F] Columns 4, 19

miral ort's al n	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 30 to 40 feet above ground.
	Calm; smoke rising vertically...	Less than 1
	Direction of wind shown by smoke drift	1–3
	Wind felt on face; leaves rustle	4–7
	Leaves and small twigs in constant motion; wind extends light flag	8–12
	ses dust and loose paper; small branches are moved ... trees in leaf begin to sway; crested wavelets on l waters...	13–18 19–24
	nches in motion; whistling heard in telegraph wires	25–31
	in motion; inconvenience felt when walking nd	32–38
	off trees; generally impedes progress... ...	39–46
	al damage occurs (chimney pots and slates	47–54
	nced inland; trees uprooted...	55–63
	erienced; accompanied by widespread damage	64–75 Abo

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.

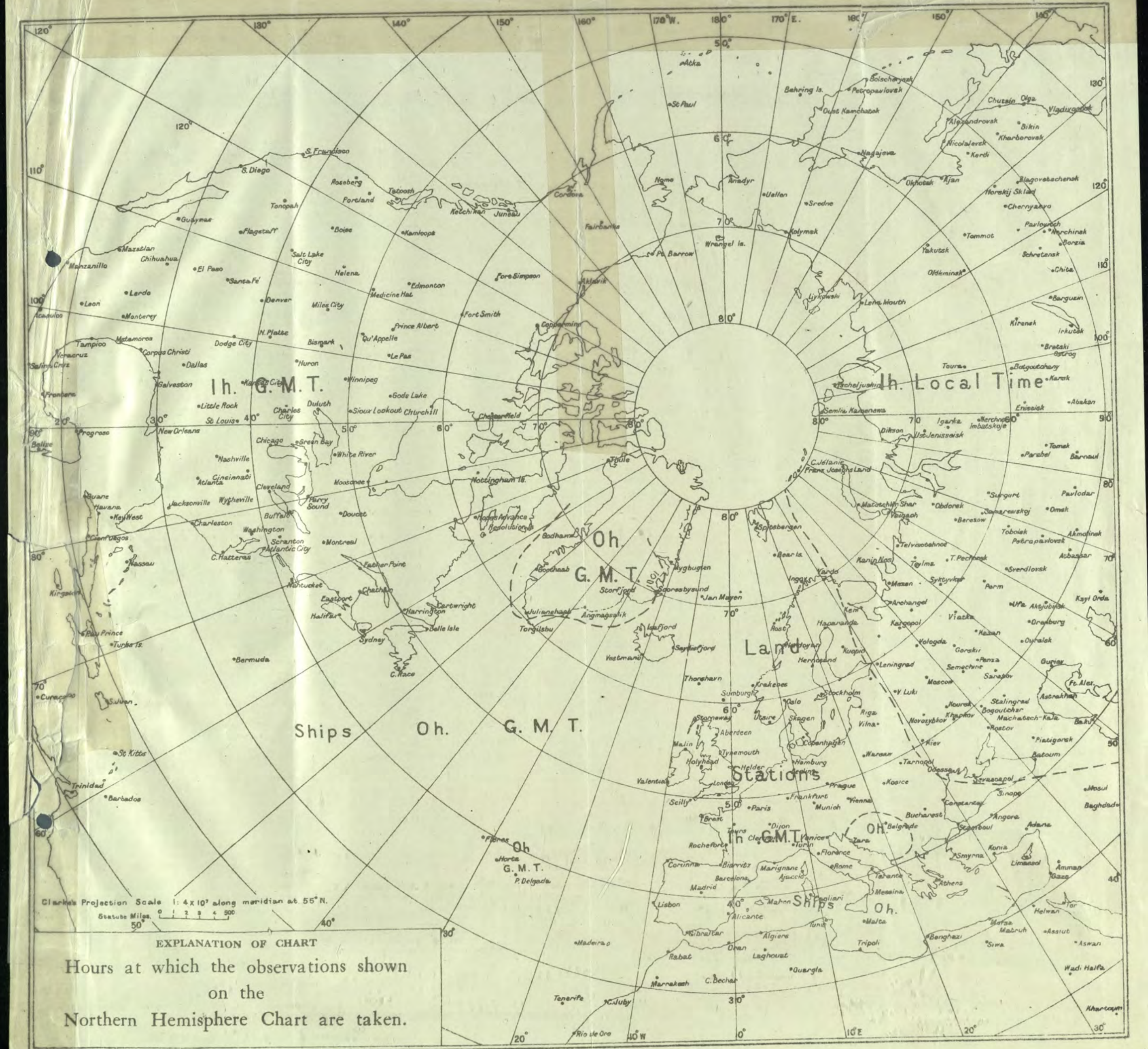
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

The districts to which warnings are sent are shown in the Report by the following symbols written on page 1 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 1 of the Report.

*Note—The public issue of Gale Warnings is suspended for the duration of war.



EXPLANATION OF CHART

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

FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND

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

FORECAST DISTRICTS and the Counties comprised within them

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. *Mid Scotland.*
Perth.

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

16. *Orkneys and Shetlands.*

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

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

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

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

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

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

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

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

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

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

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

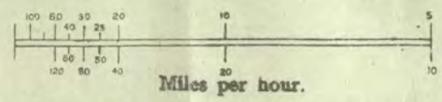
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the upper wind is about 24 m.p.h. in latitude 55°, with a temperature of 50° F. and a pressure of 1,015 mb.; if, however, the isobars are ½ inch apart the corresponding speed is 48 m.p.h.

The scales 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 SCALES

Upper Scale—8 mb isobars on $1 : 4 \times 10^7$ Charts.
Lower Scale—2 mb ,, ,, $1 : 5 \times 10^6$,,



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:—

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

$x = f - .444\,(t - t')$ for wet bulb readings above 32° F.
$x = f - .400\,(t - t')$ for wet bulb readings below 32° F.
where x is the vapour pressure in mb.
F the saturation vapour pressure at the temperature of the dry bulb;
For air temperatures below 32° F. the value of F used is that appropriate to an ice surface.
f the saturation vapour pressure at the temperature of the wet bulb;
For wet bulb temperatures below 32° F. the value of f used is that appropriate to an ice surface.
t the dry bulb temperature; and
t' the wet bulb temperature.

The entries in columns 7 and 22 are limited to 10, 25, 35, etc., to 85, 92 and 97. Entry 10 indicates that relative humidity is from 0 to 19: 25, between 20 and 29; ..... .and so on; 92, from 90 to 94; 97 between 95 and 100.

The values of Dew Point given in columns (8) and (23) are derived from the original readings of dry—and wet—bulb temperature and are correct to one degree Fahr. Values below 32° F. give the "Hoar Frost Point," that is to say the temperature for which the actual vapour pressure is equal to the saturation pressure over ice.

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

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

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," (3rd Edition, 1939), to be purchased from H.M. Stationery Office, York House, Kingsway, W.C.2, price 3s. 2d. post free.

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

H.M.S.O. Press, M.O., Dunstable.

Pp. 5214/4390. Wt. 9050-1. D 4545. G. 918/3. 210. 11/43

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON

MONTHLY SUPPLEMENT, JULY 1943 No. 319

Rainfall generally below average; Sunny in N.W.

At the beginning of the month the pressure distribution was anticyclonic over the country, but by the 4th a depression over Iceland had moved S.E. to Scotland giving showers and local thunderstorms. A trough of low pressure advanced over the British Isles on the 9th causing thundery showers and thunderstorms in many places this being followed by a deep depression off the Hebrides which moved N.E. giving strong winds on the coast of W. Scotland. By the 17th an Anticyclone had formed over N.E. Scotland and warm and sunny weather was enjoyed in the N.W but it was generally cloudy and cool in the Southern half of the country.

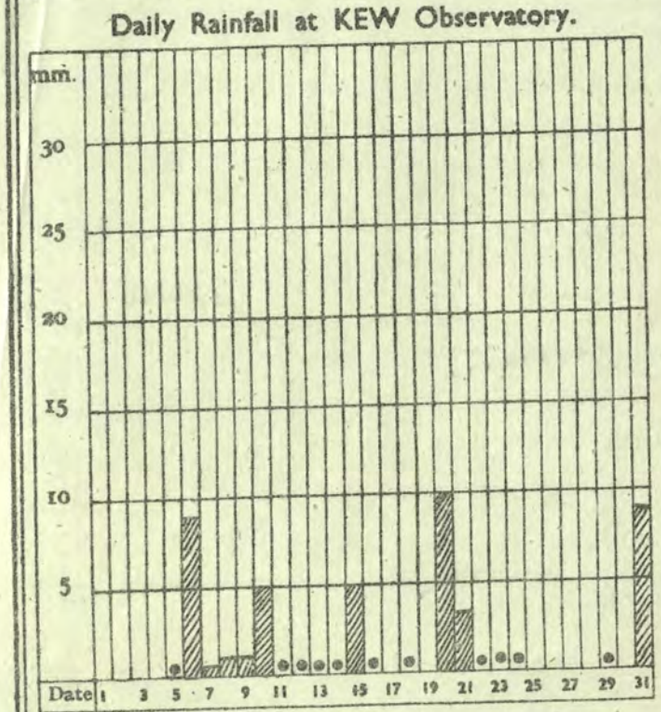
With the advance of a ridge of high pressure over the British Isles on the 22nd weather in the South became fairer and appreciably warmer by day, continuing fine until the 31st when a depression west of Ireland spread slowly east and south-east causing widespread thunderstorms over the country.

Rainfall on the whole was below normal, except for Stornoway where there was 130 mm., 57 mm above the average.

Sunshine in the N.W. of the Country was well above average, but in the South and East, amounts were normal or slightly below.

Temperatures generally in the N.W. were above average, and in the South and East about average. On the night of the 31st Thunderstorms were accompanied by heavy rainfall; amongst the largest amounts reported for the 24 hours were Greenwich 23 mm., Eskdalemuir 22 mm., Valentia 31 mm., Sealand 17 mm. High maxima were also recorded the highest reported being 93°F. at Croydon, 92°F. at South Farnborough, and 90°F. at a number of other stations. A recorded maximum temperature for July of 90·4°F was reported from Kew.

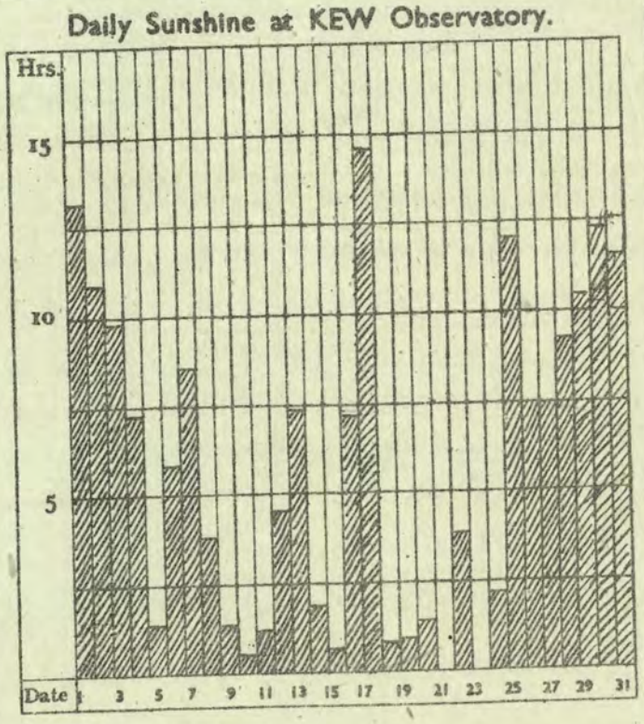
Daily Rainfall at KEW Observatory.



● = less than 0·5 mm.

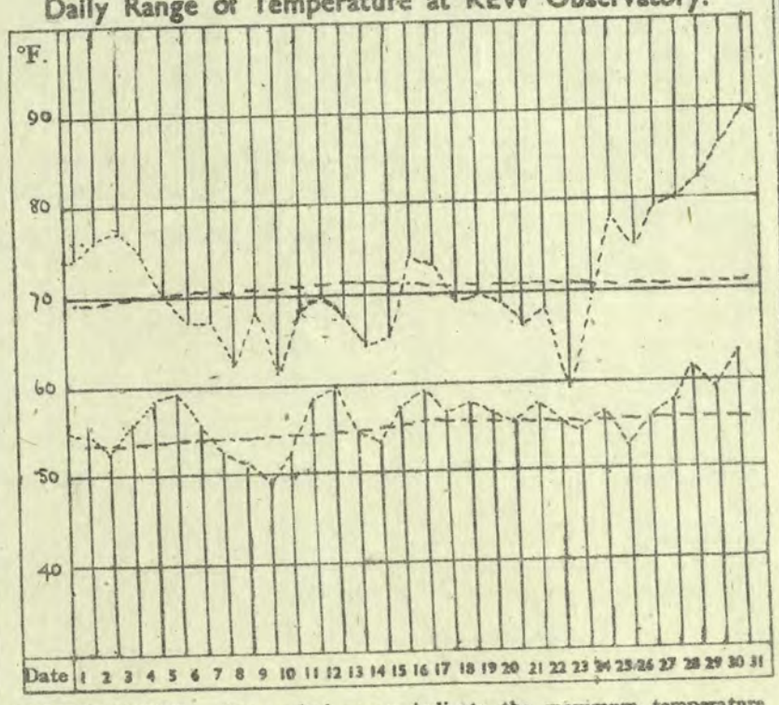
RAINFALL. Total for Month. 42 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 179 hrs.

Daily Range of Temperature at KEW Observatory.



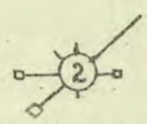
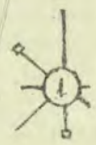
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure: Mean	Pressure: Difference from average	Temperature: Mean	Temperature: Difference from average
	mb	mb.	°F.	°F.
Kew	1016·3	+ ·5 mbs	64·5	− 2·0
Aberdeen	1014·3	+ 1·3	57·9	− 1·4
Valentia	1015·6	+ ·5	59·2	+ ·8

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

WIND FREQUENCIES at 7 hr.

Kew	Aberdeen	Valentia
		
2	1	4

Forces 1–3 ——; forces 4–7 ═══; force 8 or above ▬▬ Scale; ——— to 20 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 ...	6212
Aberdeen ...	4799
Lerwick ...	9700
Valentia ...	

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District	Stations	† TEMPERATURE. Number of daily readings within fixed limits. Maximum. 43°-50°-59°	60°-68°	69°-77°	78°-86°	87° or above	Minimum. 33°-41°	42°-50°	51°-59°	60°-68°	69°-77°	Average Maximum. °F.	Average Minimum. °F.	Extremes—Warmest and Coldest. Days. Highest Max. °F.	Date.	Lowest Max. °F.	Date.	Nights. Highest Min. °F.	Date.	Lowest Min. °F.	Date.	Number of Ground Frosts.	LOW CLOUD. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	FOG, MIST and GOOD VISIBILITY. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
1	London ...	1	12	12	5	1	0	1	26	4	0	72·8	52·6	90	31	59	23	63	31	49	9	0	2	25	0	1	27	1	1	27	0	0	0	0	0	13	0	0	0	0	24
	(Kew Obsy).																																								
	Croydon ...	8	12	11	6	2	0	5	24	2	0	71·9	54·6	93	31	60	23	65	31	48	9	0	5	17	1	4	22	0	1	24	1	0	0	1	1	12	0	0	0	1	23
	Thorney Island	0	12	15	4	0	0	6	24	1	0	68·7	55·4	84	31	62	10	65	31	47	10	0	6	19	0	5	21	2	3	22	1	0	0	0	1	17	0	0	0	0	22
	Lympne ...	0	21	7	2	1	0	7	22	2	0	68·8	53·8	87	31	61	9,10,23,24	62	31	44	9	0	9	8	1	4	17	0	3	14	0	0	0	0	1	13	0	0	0	0	22
2	Shoeburyness...	0	15	13	3	0	0	4	22	5	0	71·8	54·4	83	28	62	23	64	31	47	9	0	2	12	0	1	21	0	0	18	0	0	0	0	1	19	0	0	0	0	23
	Gorleston ...	3	17	11	0	0	0	5	21	5	0	67·9	55·4	75	15,27	59	1,10,23	63	31	48	9,18,24	0	5	14	0	1	22	0	4	19	0	0	0	0	0	24	0	0	0	0	26
	Cranwell ...	1	12	11	6	1	0	13	17	1	0	71·0	52·6	89	31	67	10	61	12	42	24	0	2	20	0	1	26	0	3	17	1	0	0	1	0	12	0	0	0	0	26
3	Birmingham ...	0	13	13	3	2	0	7	21	3	0	69·3	54·1	90	31	61	7,8,10	60	27,29	31	47	8,10	0	4	19	0	1	24	0	0	26	2	0	0	1	7	15	0	0	0	0	24
	(Edgbaston)																																								
4	Ross-on-Wye...	0	14	12	3	2	0	8	22	1	0	70·6	53·7	89	31	61	18	61	27	45	8	0	5	19	0	2	26	0	0	27	0	0	0	2	2	18	0	0	0	0	23
5	The Lizard ...	0	24	7	0	0	0	2	26	3	0	*	*	72	3	60	19,26	62	31	50	7,8	*	7	22	0	3	28	0	4	27	0	0	1	2	0	20	0	0	3	0	22
7	Holyhead ...	1	22	6	2	0	0	10	20	1	0	62·9	55·1	85	31	59	14	60	31	43	16	0	5	22	0	3	24	1	3	19	1	1	0	0	1	18	0	0	0	0	24
	(Valley)																																								
8	Chester ...	1	10	17	2	1	0	10	20	1	0	68·8	53·2	88	31	59	10	61	15	46	10,16	0	2	23	0	0	28	0	1	23	0	0	0	1	5	9	0	0	0	0	16
	(Sealand)																																								
10	Tynemouth ...	11	17	3	0	0	0	6	24	1	0	64·7	53·9	70	26	55	2	61	27	48	10	0	4	21	0	0	24	0	0	24	0	0	0	0	5	19	0	0	0	0	24
11	Leuchars ...	2	20	9	0	0	0	15	16	0	0	65·8	50·9	76	25,31	54	6	59	31	44	10,17	0	8	22	0	1	27	0	3	22	0	0	0	0	0	21	0	0	0	0	20
12	Renfrew ...	2	17	10	2	0	0	17	13	1	0	66·0	51·5	84	31	53	6	60	26	42	8	0	2	24	0	1	28	0	0	28	0	0	0	1	0	14	0	0	0	0	21
	Eskdalemuir ...	6	18	6	1	0	3	19	9	0	0	64·0	48·8	81	31	56	14	56	31	37	23	0	11	16	0	3	27	0	4	26	0	0	0	1	2	17	0	0	1	0	24
13B	Stornoway ...	14	17	0	0	0	0	18	12	1	0	60·9	50·5	65	17,18,25,28	56	15	60	24	43	23	*	7	20	0	4	26	0	2	26	0	0	0	1	0	24	0	0	0	0	28
15	Aberdeen ...	9	19	3	0	0	3	10	18	0	0	64·1	51·7	74	27	57	6	57	31	38	23	0	9	21	0	1	27	2	2	23	2	0	0	0	0	22	0	0	0	0	27
18	Aldergrove ...	1	19	10	1	0	0	17	12	2	0	64·9	51·5	78	31	56	10	62	31	42	2	0	4	21	0	4	24	0	2	24	1	0	0	0	0	19	0	0	0	0	28
19	Birr Castle ...	0	18	13	0	0	1	13	16	1	0	67·0	52·5	78	23,30	60	18	63	31	41	5	0	8	19	0	2	28	0	2	28	0	0	0	2	0	28	0	0	0	0	31
20	Valentia ...	1	24	5	1	0	0	3	26	2	0	63·7	54·7	78	30	59	8	61	31	47	16	0	3	26	0	2	28	0	4	26	0	0	0	0	0	27	0	0	0	0	26
	(Cahirciveen)																																								

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Bircham Newton. Normal Temp. °F.	Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.	Penzance. Mean. °F.	No. of Reports.
950	1850	57·3	54·1	62	52·3	62	55·8	30
850	4860	46·7	47·0	62	44·9	62	47·9	30
750	8170	37·6	38·1	62	36·9	62	39·3	30
650	11890	26·7	27·4	62	25·9	62	29·5	30
550	16110	12·1	13·9	62	12·8	62	15·5	30

† The readings and averages used, are the maximum for the period 7 h.–18 h. and the minimum for the period 18 h.–7 h. Averages are for periods of at least 10 years (See M.O. 364).

UPPER WINDS.

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

Station.	Lympne. Height. Metres.	*No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Exeter. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead (Valley). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Prestwick. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Station. Height. Metres.
			kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.				
	500 above ground	63	26	24	9	1	0	44	20	13	4	1	0	23	13	6	0	0	0	61	35	17	4	0	0	500 above ground.
	1000 above M.S.L.	61	26	25	8	0	0	27	10	13	2	0	0	17	10	5	0	0	0	55	33	15	3	0	0	1000 above M.S.L.
	2000 " "	38	14	19	3	0	0	7	3	4	0	0	0	9	5	2	0	0	0	38	20	10	4	0	0	2000 " "
	3000 " "	26	15	9	1	1	0	2	1	1	0	0	0	7	6	1	0	0	0	19	14	4	0	0	0	3000 " "
	4000 " "	17	8	8	1	0	0	1	0	1	0	0	0	3	1	1	0	0	0	13	8	3	0	0	0	4000 " "

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

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

SUNSHINE, RAINFALL, AND HUMIDITY ..... July ..... 1943.

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 hours. mm.	Date.	Total for past 12 months. mm.	Difference from average. mm.	Total for Month.‡ mm.	Difference from average. mm.	Highest and Lowest Totals on record for Month. First year of record.	Highest. mm.	Year.	Lowest. mm.	Year.	Days with Thunder.	Days with Snow or Sleet.
1	London ... (Kew Obsy).	2	10	4	5	10	14·6	17	1313	−156	179	−15	1880	334	1911	104	1888	20	5	3	3	0	0	10·0	20	582	−24	42	−13	1856	124	1880	4	1921	4	0
	Croydon ...	3	9	2	3	14	14·3	17	1581	+56	200	−20	1922	297	1928	132	1927	19	5	4	3	0	0	8·4	20	729	+80	38	−22	1921	105	1936	3	1921	2	0
	Thorney Island **	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23	1	4	3	0	0	14·9	18	694	+1	53	+0	1881	132	1920	6	1905	3	0
	Lympne ...	3	6	5	1	16	14·6	28	1793	+28	230	−10	1921	307	1935	153	{1927 1937	21	1	5	4	0	0	12·0	31	685	−39	53	−1	1920	126	1927	6	1933	4	0
2	Shoeburyness ...	2	4	7	3	15	14·5	17	1646	−70	221	−6	1919	311	{1928 1935	128	1919	22	2	4	2	1	0	16·5	21	561	+58	47	+0	1920	90	1940	7	1921	4	0
	Gorleston ...	1	7	6	6	11	14·3	17	1693	+50	226	+15	1908	309	1935	103	1910	23	4	4	0	0	0	4·0	{6 31	549	−73	15	−44	1871	150	1875	7	1897	2	0
	Cranwell ...	2	8	3	8	10	14·3	17	1622	+84	209	+3	1921	266	1935	113	1937	21	2	6	1	1	0	16·3	7	519	−71	36	−23	1917	251	1932	10	1921	3	0
3	Birmingham ... (Edgbaston)	2	5	8	5	11	14·3	16	1421	+117	202	+31	1887	271	1911	67	1887	21	4	3	3	0	0	6·4	15	704	+30	28	−31	1893	167	1936	7	1911	2	0
4	Ross-on-Wye ...	1	9	5	7	9	14·3	16	1501	+16	191	−1	1915	271	1934	122	1927	22	3	4	2	0	0	12·2	15	710	−7	33	−25	1859	197	1872	6	{1911 1935	1	0
5	Falmouth ... (Observatory)	5	6	5	8	7	14·2	3	1626	−84	177	−40	1881	346	1911	135	1890	12	7	7	3	2	0	16·2	17	946	−161	77	+5	1871	178	1924	8	1913	1	0
7	Holyhead (Valley)	*	*	*	*	*	*	*	*	*	*	*	1914	255	1934	123	1920	20	2	6	3	0	0	10·8	10	902	+15	40	−26	1871	197	1920	8	1935	1	0
8	Chester ... (Sealand)	1	4	5	9	12	14·6	16	1630	+254	242	+69	1923	244	1934	112	1931	20	4	2	2	2	1	30·3	6	663	+25	82	+24	1922	132	1939	18	1934	4	0
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*		*	*	18	3	6	4	0	0	11·0	6	519	−102	46	−15	1915	174	1940	13	1935	2	0
11	Leuchers ...	1	5	8	9	8	15·4	17	1698	+128	213	+41	1922	244	1935	91	1931	17	4	6	3	1	0	18·1	6	504	−149	49	−17	1922	181	1940	17	1928	2	0
12	Renfrew ...	2	6	2	13	8	13·9	17	1254	+61	209	+60	1921	231	1934	86	1931	16	6	5	3	1	0	24·4	12	1167	+228	66	−5	1921	136	1936	35	1935	2	0
	Eskdalemuir ...	1	5	7	10	8	14·6	17	1195	−6	198	+51	1910	217	1935	75	1931	13	6	5	6	1	0	22·0	31	1675	+246	98	−6	1910	225	1938	25	1913	4	0
13B	Stornoway ...	2	10	10	3	6	16·0	18	1023	−192	170	+25	1881	227	1917	57	1939	13	1	8	6	3	0	23·0	25	1322	+121	130	+57	1870	175	1871	22	1913	1	0
15	Aberdeen ...	1	7	7	7	9	14·2	23	1373	+44	206	+54	1881	239	1911	83	1931	19	5	6	1	0	0	9·6	10	649	+25	25	−46	1871	195	1940	14	1878	0	0
18	Aldergrove ...	2	5	7	5	12	14·9	20	1360	+34	227	+76	1927	217	1934	87	1939	17	4	7	3	0	0	14·2	5	899	+61	45	−26	1926	154	1939	27	1935	1	0
19	Birr Castle ...	0	9	9	7	6	12·3	20	1213	−93	172	+23	1881	224	1911	53	1936	14	6	7	4	0	0	9·0	10	904	+77	51	−24	1862	186	1880	8	1863	—	—
20	Valentia ... (Cahirciveen)	2	14	5	4	6	14·3	2	1281	−87	145	−12	1880	235	1918	71	1932	14	3	7	6	0	1	31·0	31	1246	−168	96	+0	1866	223	1937	22	1898	—	—

MINIMUM SURFACE HUMIDITY.

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

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

STATE OF GROUND AT 18 h.

No of Days each Type was recorded

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)...	16	15	-	-	-	-	-	-	-	-
Ross-on-Wye ...	25	6	-	-	-	-	-	-	-	-
Renfrew ...	21	10	-	-	-	-	-	-	-	-
Eskdalemuir ...	18	13	-	-	-	-	-	-	-	-
Aberdeen ...	24	7	-	-	-	-	-	-	-	-
Valentia ...										

CODE for State of Ground.

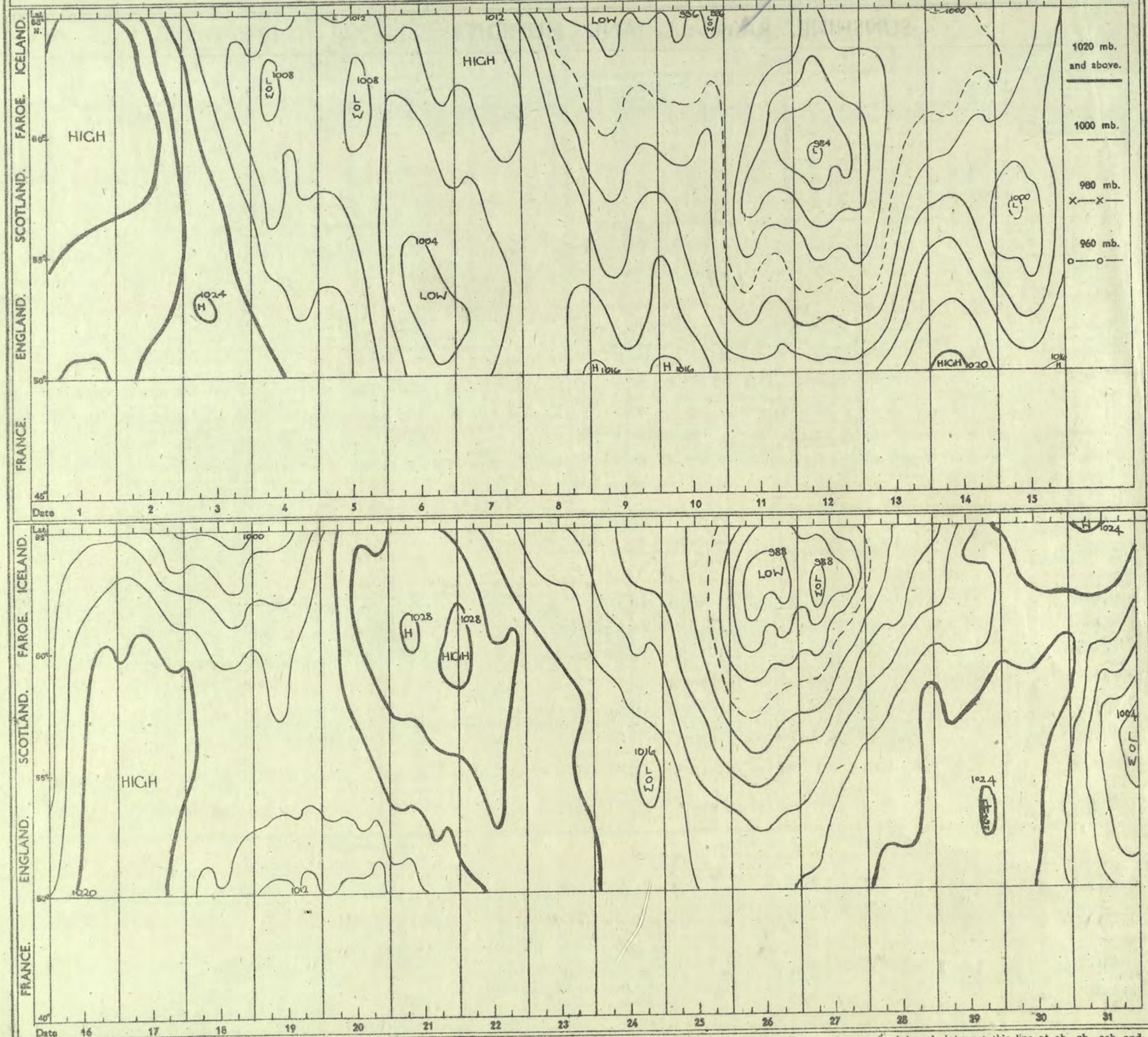
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost
6 Covered with thawing snow.
7 Covered with snow, less than 6 in., but ground not frozen.
8 Covered with snow, less than 6 in., and ground frozen.
9 Covered with snow, greater than 6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

** The extremes and average of rainfall are supplemented by records from neighbouring stations.

‡ 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 .... 1943.

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 show the variation of pressure from day to day at any point in the line. The line terminates at Lat 66° N., Long. 18° W., in the north; at Lat. 44½° N., Long. 4° E., in the south.

H.M.S.O. Press, M.O., Dunstable.

Ps. 300/4516. Wt.8088. D.&Co. Gp.340/3. 395. 7/43.

SECRET

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THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 1st July 1943 — No. 29806

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	25·1	-6	NE'N	3	c	64	66	55	7	5	-	-	9+	9+	2500
	Croydon ...	25·0	-8	NE	2	c	63	65	50	7	5	-	-	9	9	3500
	S. Farnborough	25·0	-8	NE'E	2	c	62	65	51	8	5	-	-	9+	9+	2000
	Boscombe Down	25·2	-6	NNE	2	c	60	65	49	8	5	-	-	9	9	2500
	Thorney Island	24·6	-6	NE'N	2	c	63	65	52	7	5	-	-	4-6	9+	2500
	Lympne ...	24·7	-2	NNE	4	c	63	76	53	7	5	-	-	9+	9+	1500
	Manston ...	24·4	-2	N'E	3	ido	60	86	56	7	5	-	-	9+	9+	2600
2	Shoeburyness ...	25·0	-6	ENE	3	bc	65	66	54	8	5	-	-	4-6	4-6	2500
	Felixstowe ...	24·5	-6	NE'E	3	c-bc	64	75	57	8	5	-	1	4-6	7-8	4000
	Gorleston ...	25·0	-2	NNE	4	bc	60	85	58	7	2	-	-	4-6	4-6	2000
	Mildenhall ...	25·8	-2	NNE	3	c	61	75	53	8	5	-	-	10	10	1600
	Cranwell ...	26·8	-2	NE'E	4	c	60	75	51	8	6	-	-	9+	9+	1500
3	Birmingham ...	26·9	-4	NNE	3	2o	57	76	49	6	5	-	-	10	10	1800
	Upper Heyford	25·7	-6	NE'N	4	c	59	75	50	8	5	-	-	4-6	10	1200
4	Ross-on-Wye	26·2	-6	NE'E	4	c	59	75	49	7	5	-	-	10	10	2500
5	Hartland Point	24·9	0	NNE	3	bc	60	75	50	7	1	-	-	4-6	4-6	3000
	Bristol ...	26·2	-6	NE'N	3	c	60	75	52	8	5	-	-	10	10	2500
	Portland Bill ...	24·7	-6	NE	4	o	59	85	55	8	5	-	-	10	10	4000
	Plymouth ...	25·6	-2	E'S	4	c	61	75	51	7	5	-	-	9+	9+	2500
	The Lizard ...	24·1	-6	WNW	4	c	62	79	53	7	5	-	-	7-8	9+	2500
	Scilly (St. Mary's)	24·5	-4	ESE	4	c	66	65	52	7	5	-	-	1	10	1500
	Guernsey ...															
6	Pembroke ...	25·9	-4	S	1	2o	60	75	51	6	2	1	-	4-6	7-8	3000
7	Holyhead (Valley)	26·9	-8	NE'E	3	b	67	55	48	7	-	-	-	0	0	-
	Chester (Sealand)	26·7	-8	E	3	c-bc	64	65	51	6	1	-	-	7-8	7-8	3500
8	Manchester ...	27·3	-4	NE	3	2o	58	75	50	6	5	-	-	10	10	2000
10	Spurn Head ...	27·4	0	NNE	4	c	59	75	49	7	9	7	-	4-6	10	1800
	Catterick (Sc) ...	29·0	-2	NNE	3	2o	57	76	49	6	5	-	-	7-8	10	900
	Tynemouth ...	29·0	-4	N	4	2o	54	97	58	6	-	2	-	10	10	1600
11	St. Abbs Head	29·3	-4	NNE	2	c	53	92	51	7	5	1	-	7-8	10	1500
	Leuchars ...	29·5	-6	ESE	4	c-bc	62	75	52	7	5	-	-	4-6	7-8	1000
12	Renfrew (Abbotsl.)	27·4	-18	ESE	2	b	77	55	61	7	1	-	-	Tr	Tr	2600
	Eskdalemuir ...	28·0	0	NE'N	4	b-bc	65	65	51	8	1	-	-	2-3	2-3	3200
	Point of Ayre ...	27·9	-12	NE'E	3	b	64	75	55	8	-	-	-	0	0	-
13A	Tiree	28·9	-4	N	1	b	65	85	59	8	-	-	-	0	0	-
13B	Stornoway ...	30·6	-6	ENE	4	b	58	85	53	7	5	-	-	Tr	Tr	800
15	Dalwhinnie ...	29·3	-12	N	2	b	71	45	50	8	-	-	9	0	1	-
	Aberdeen ...	29·4	-8	NNW	4	b-bc	62	45	40	9	5	-	1	2-3	2-3	1500
	Wick ...	30·9	-8	NNE	4	c-bc	57	86	53	8	5	7	-	4-6	7-8	1500
16	Sumburgh ...	30·1	-6	NE	3	b-bc	55	85	51	9	5	-	-	2-3	2-3	1500
17	Blacksod Point	26·7	-10	NNW	1	b	76	56	58	8	-	-	-	0	0	-
18	Malin Head ...	27·8	-10	E'N	3	b	63	75	55	7	-	-	-	0	0	-
	Aldergrove ...	27·5	-10	ENE	2	b	73	55	56	7	1	-	-	Tr	Tr	4000
19	Birr Castle ...	26·0	-10	NE	2	b	77	55	61	8	1	-	-	1	1	2500
20	Valentia Obsy.	24·8	-14	W	3	b	73	75	65	8	1	-	-	1	1	4000
	Roches Point	25·6	-6	E	3	b	66	85	61	8	1	-	-	Tr	Tr	4000

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°Temp. (21)	% Humid. (22)	°Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
23·3	-6	NNE	3	bc	66	65	51	7	8	-	-	4-6	4-6	2500	0	*
23·5	-6	NNE	2	c-bc	68	55	52	8	4	-	-	7-8	7-8	2500	0	*
23·2	-10	NE	2	b-bc	67	65	53	8	7	-	-	2-3	2-3	4000	0	*
23·5	-10	NNE	2	bc	65	55	50	8	5	-	-	4-6	4-6	3500	0	*
22·6	-2	E'N	3	b-bc	69	65	53	7	5	-	-	2-3	2-3	4000	0	*
23·2	-2	NNE	4	b-bc	63	75	54	8	1	-	4	Tr	2-3	2000	0	3
23·7	-6	NNE	3	bc	61	85	55	8	5	-	4	2-3	4-6	2000	0	*
23·6	-10	NE	3	b-bc	63	75	57	8	2	-	2	1	2-3	2500	0	*
23·5	-10	NE'N	4	b-bc	63	85	58	8	2	-	1	1	2-3	2500	0	2
24·7	-4	NNE	4	c	59	75	52	7	5	-	-	9+	9+	1100	0	3
24·4	-10	N'E	4	bc	62	65	50	8	1	-	2	2-3	4-6	2600	0	*
25·6	-2	ENE	3	c	58	85	52	8	5	-	-	10	10	2000	1	*
25·2	-8	ENE	3	c	60	65	48	7	5	-	-	9+	9+	1500	0	*
24·7	-4	NE'E	3	c	59	75	51	8	5	-	-	10	10	2500	0	*
24·7	-10	NE	3	c	61	75	51	7	5	-	-	10	10	3000	0	*
23·2	-8	NE	3	b	60	75	51	7	1	-	-	Tr	Tr	3000	0	3
24·3	-8	ENE	2	c-bc	63	75	53	8	5	-	-	7-8	7-8	3200	0	*
22·9	-8	E	3	bc	61	85	57	8	1	-	-	4-6	4-6	4000	0	3
23·1	-10	E	2	b-bc	63	65	50	8	5	-	-	2-3	2-3	2500	0	2
22·9	-10	ENE	4	bc	60	75	52	8	7	3	-	4-6	4-6	3000	0	4
23·3	-10	E	3	c	61	75	52	7	5	-	-	9+	10	1800	0	3
24·8	-6	S'E	1	2o	60	75	51	6	8	6	-	7-8	9+	2000	0	2
25·4	-6	NE	4	2o	64	65	52	6	-	-	-	0	0	-	0	3
25·7	-6	E'S	2	c	62	65	51	6	7	-	-	9+	9+	3800	0	*
25·6	-10	NE	2	2o	60	75	51	6	5	-	-	9+	9+	2500	0	*
26·9	-2	N'E	1	c	56	85	50	7	7	7	-	4-6	9+	1500	0	3
27·5	-8	NNE	2	2	55	85	50	6	5	2	-	7-8	10	800	0	*
28·4	-6	N	4	c/d	54	97	53	7	-	2	-	10	10	1300	1	3
28·4	-2	ENE	1	c	53	92	51	8	5	2	-	7-8	10	2000	0	4
28·7	-6	ESE	1	c	56	85	50	8	5	-	-	10	10	1000	0	*
26·7	+2	ENE	3	b	64	65	52	8	7	4	-	Tr	Tr	3500	0	*
26·3	-6	NE'E	4	b	64	65	52	8	7	4	-	Tr	Tr	3500	0	*
26·0	-2	N	2	b	66	75	56	8	-	4	-	0	Tr	-	0	3
26·9	-14	N'E	3	b	62	85	57	8	-	-	-	0	0	-	0	1
30·1	+2	NNE	6	c	55	92	53	7	5	-	-	9	9	800	0	3
28·5	-4	NNE	3	b	68	45	45	8	2	-	-	Tr	Tr	4000	0	*
28·5	-10	N'W	3	b-bc	58	75	53	8	5	-	-	2-3	2-3	1500	0	2
29·7	-8	ENE	3	b-bc	57	75	49	9	8	-	-	2-3	2-3	2000	0	*
29·9	0	NE	3	b	56	85	52	8	5	-	1	Tr	1	2000	0	2
25·0	-10	NNW	3	b	70	75	60	8	-	-	-	0	0	-	0	3
27·0	-6	NE'E	1	b	60	85	56	8	-	-	-	0	0	-	0	1
26·4	-4	ENE	1	b	71	65	58	7	-	-	-	0	0	-	0	*
25·0	-4	NE	2	b	74	55	56	8	-	-	-	0	0	-	0	*
23·9	-6	W	2	b	72	65	60	8	1	-	-	1	1	5700	0	2
24·6	-6	ESE	4	bc	64	75	56	8	5	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS. WEATHER.

7h.—13h. 30th (39)	13h.—18h. 30th (40)	18h. 30th to 1h. 1st (41)	1h.—7h. 1st (42)
c	cbcyboc	bcc	cbcmo
cmoc	cbcy	bccdoc	c
cdocc	obcyb	bbcc	cmobc
c	cbcy	bcbybbcb	c
c	cmbcy	bc	bcmobc
cidocmo	cb	bc	bcw
cido	cidbo	bccbc	bccmo
cbc	bc	bcc	c
cbc	bc	bcb	bcc
cbc	c	c	c
c	c	bcc	c
c	c	c	c
cz	c	c	c
ccidoc	c	ccmo	cmoc
c	cc	cb	bccoc
bbc	bcb	b	bc
c	cc	bmo	cmoomoOc
o	bcbc	bcbc	c
cbcc	cbc	bmo	cmobcmo
bbcc	cbc	bcbm	bcc
bc	c	cbcb	bwbc
bcczo	czo	cbcmo	cbczo
bzoby	byzo	bbcmo	cmo
cmozobc	bczc	c,bzomf	bffmoc
cmozo	czc°	czommo	cmo
c	c	o	c
cidoczo	cmo	cmo	cidomo
cpmo	odmo	oido	odoid
cmoc	c	cfo	cfoc
cmobbc	bcc	c	c
bmobby	byb	bbccmocmcmowc	
bc	bcb	bbcc	bccdodo
b	b	bbccmw	cbc
b	b	b	b
bcbcjfb	bbcc	ccmo	ofccmo
bc	b	*	b,c
cbcby	bbc	bcc	ccido
omc	bcbbc	c	ccdodoc
cbc	bcb	bcc	c
b	b	b	b
b	b	b	b
bwmobby	byb	bbcb	bwbcw
b	b	b	c
b	bc	b	bc
b	b	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 1st July 1943

Districts	
1 S.E. England 2 E. England .. 3 E. Midlands ...	Light to moderate northeast winds; fine and warm by day; cloudy and cool night and early morning with local hill fog.
4 W. Midlands — S.W. England 6 South Wales 7 North Wales 8 N.W. England	Light east to southeast wind; mainly fine and warm.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind north to northeast light to moderate; overcast with low cloud night and morning with local drizzle and hill fog; becoming fair during the day except on parts of the coast where fog will persist, rather warm inland in the afternoon, cool on the coast.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland	As 4-8
14 Mid Scotland 15 N.E. Scotland	As 9-11
16 Orkneys and Shetlands	As 9-11
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light winds between East and South; fine apart from some low cloud in the early morning in the East; warm or very warm.

GENERAL INFERENCE

A large anticyclone centred to northward of the British Isles will maintain the spell of fine weather in many areas, except that low cloud will spread in over much of the Eastern half of the country at night, but this will clear during the forenoon; day temperatures will again be rather high in places, mainly in the West.

FURTHER OUTLOOK

No important change indicated.

Forecasts issued at 10·30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Thursday, 1st July 1943.

HIGH

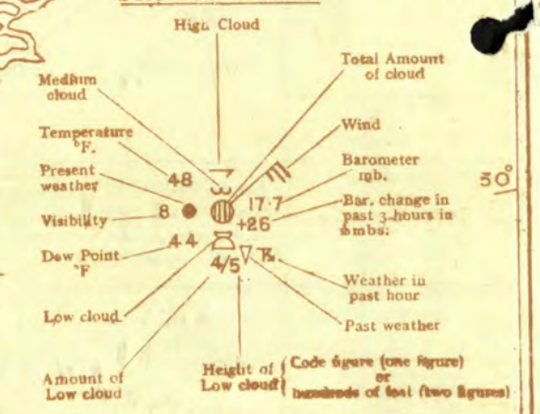
1030 1028 1026 1024 1022 1020

Low

60° 55° 50°

10° W. 5° W. 0° 5° E. 10°

STATION MODEL



Scale 1 : 5,000,000

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Thursday 1st July

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 1st July 1943

No. 29806

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	57	*	*	*	*	*	*	*	*	*
	Croydon ...	290	24·3	+2	NE	2	c	56	85	51	7	5	–	–	10	10	1200
	S. Farnborough	226	23·7	–2	NE	3	c	55	85	51	7	5	–	–	10	10	2000
	Boscombe Down	417	23·7	0	NNE	1	b	53	92	51	7	5	–	–	1	1	3500
	Thorney Island	10	22·6	+2	NE	2	2o	55	92	52	6	5	–	–	2-3	2-3	2500
	Lympne ..	283	22·8	–4	NNE	4	b-bc	54	92	52	7	5	–	2	1	2-3	2000
	Manston ...	154	23·4	–2	NE'N	3	bc	56	92	54	6	5	–	–	4-6	4-6	1000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	23·8	–4	H	2	b	54	92	51	8	–	7	–	0	1	–
	Gorleston ...	5	24·7	0	NNE	4	c	56	85	52	7	8	–	–	9	9	1500
	Mildenhall ...	15	24·7	0	NE'N	2	c	55	85	51	8	5	–	–	9+	9+	1600
	Cranwell ...	203	25·9	–4	NE	2	2o	53	92	51	6	5	–	–	10	10	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	24·1	–6	ENE	3	2o	55	85	50	6	5	–	–	10	10	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	22·7	–2	NE	3	b	56	85	52	7	–	–	–	0	0	–
	Bristol	209	24·6	0	NE	1	2o	57	97	56	6	5	–	–	7-8	7-8	8100
	Portland Bill ...	32	22·3	–4	E	4	bc	57	85	53	8	2	–	–	4-6	4-6	4000
	Plymouth ...	86	23·5	–2	ENE	1	2o	54	85	51	6	–	–	–	0	0	–
	The Lizard ...	240	22·4	0	NE	3	b	53	92	50	8	–	–	–	0	0	–
	Scilly (St.Mary's)	163	22·5	–4	NE	3	b	56	92	52	7	–	–	–	0	0	–
	Guernsey ...	175															
6	Pembroke ...	142	24·0	0	NE'E	1	2o	54	85	50	6	5	–	–	2-3	2-3	4000
7	Holyhead (Valley)	32	25·3	–2	ENE	1	2o	54	92	52	6	–	4	–	0	2-3	–
	Chester (Sealand)	16	25·2	–2	–	0	bf	61	92	49	2	–	–	–	0	0	–
8	Manchester ...	230	25·2	–4	NE	2	2o	55	85	50	6	5	–	–	10	10	1900
10	Spurn Head ...	29	26·8	0	NNE	3	0	54	85	49	7	5	–	–	10	10	1500
	Catterick (Sc)...	192	27·6	–2	N	2	id.	52	97	51	5	5	–	–	4-6	10	700
	Tynemouth ...	108	28·0	–2	NNE	4	id.	52	97	52	7	–	2	–	10	10	800
11	St. Abbs Head	280	27·3	–10	N	2	i6	51	92	49	7	5	–	–	10	10	1500
	Leuchars ...	36	27·9	–6	ENE	1	c	53	85	49	7	5	–	–	9+	10	1200
12	Renfrew (Abbotsl.)	19	27·5	–2	E'N	2	2o	55	85	51	5	5	–	–	10	10	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	26·1	+2	ESE	2	c	53	85	53	7	5	–	–	9+	9+	1600
13A	Tiree	44	25·2	–10	NE'N	1	b	55	92	52	8	–	–	–	0	0	–
13B	Stornoway ...	12	29·4	–8	NE	4	5+	52	97	52	2	–	–	–	10	10	150
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
•	Aberdeen † ...	79	28·7	–2	N	3	c	51	85	48	8	5	–	–	9	10	900
	Wick ...	114	29·1	–6	N'E	3	c	50	92	48	6	5	–	–	7-8	10	400
16	Sumburgh ..	19	28·7	–5	NW	2	c	50	97	48	8	5	–	–	9	9	600
17	Blacknod Point	18	24·4	–2	–	0	b	64	75	56	8	–	–	–	0	0	–
18	Malin Head ...	84	26·0	–4	ESE	1	b	57	85	52	8	–	–	–	0	0	–
	Aldergrove ...	268	26·2	–2	ENE	1	b	56	85	50	7	–	–	–	0	0	–
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	28·4	–4	ENE	1	b	57	92	55	7	5	–	–	Tr	Tr	4000
	Roches Point	22	23·9	–2	E'N	2	b	54	97	53	8	5	–	–	Tr	Tr	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	23·7	0	NNE	2	2o	57	75	49	6	1	–	1	2-3	2-3	2500	0	*
	Croydon ...	24·6	0	NNE	2	bc	57	75	50	7	5	–	4	2-3	4-6	1800	0	*
	S. Farnborough	23·6	+2	NE	3	bc	55	85	50	7	5	–	–	4-6	4-6	1200	0	*
	Boscombe Down	23·2	+2	NE	2	bc	57	75	49	7	5	–	6	1	4-6	3000	0	*
	Thorney Island	22·3	+2	NNE	3	bc	58	75	51	7	5	–	1	2-3	4-6	4000	0	*
	Lympne ..	22·4	+4	NE'N	5	c-bc	58	85	53	7	5	–	–	7-8	7-8	1200	0	*3
	Manston ...	23·7	+14	NNE	4	2o	56	85	52	6	5	–	–	9+	9+	800	0	*
2	Shoeburyness ...	23·8	+2	NNE	2	c	55	85	51	7	5	–	–	10	10	1500	0	*
	Felixstowe ...	25·1	0	NNE	3	c-bc	57	85	52	7	5	–	–	7-8	7-8	1500	0	2
	Gorleston ...	24·0	+6	NNE	4	c	56	92	53	7	5	–	–	10	10	800	0	3
	Mildenhall ...	24·6	+6	NNE	3	c	55	85	50	8	5	–	–	10	10	1700	0	*
	Cranwell ...	25·1	–2	ENE	3	c	53	85	50	8	5	–	–	10	10	2000	0	*
3	Birmingham ...	25·1	0	E	3	2o	53	75	45	6	5	–	–	10	10	1500	0	*
	Upper Heyford	24·2	+2	E'N	3	c-bc	55	85	50	7	5	–	–	7-8	7-8	900	0	*
4	Ross-on-Wye	24·4	0	NE	3	c	55	85	49	7	5	–	–	10	10	2000	0	*
5	Hartland Point	22·1	0	ENE	3	c-bc	53	97	52	6	5	4	–	4-6	7-8	1500	0	3
	Bristol	24·1	–2	E	3	c-bc	55	85	50	8	5	–	1	7-8	7-8	2500	0	*
	Portland Bill ...	22·3	+2	NE	4	c	56	85	53	8	5	–	–	10	10	4000	1	3
	Plymouth ...	22·7	+2	E	4	2o	57	85	53	6	5	–	–	9	9	1400	0	1
	The Lizard ...	21·2	+2	NE	5	c-bc	58	85	54	8	7	–	–	7-8	7-8	2500	0	4
	Scilly (St.Mary's)	21·5	+4	NE'E	4	bc	58	85	54	6	5	–	–	4-6	4-6	1500	0	2
	Guernsey ...																	
6	Pembroke ...	23·7	–2	E'N	1	bc	57	85	52	6	2	1	–	4-6	4-6	2000	0	2
7	Holyhead (Valley)	24·9	+4	ENE	1	2o	58	85	53	6	5	–	–	9	9	5000	1	2
	Chester (Sealand)	25·5	+6	–	0	c	56	85	50	6	5	–	–	10	10	2500	0	*
8	Manchester ...	25·4	+4	–	0	2o	56	75	48	6	5	–	–	9	9	3000	0	*
10	Spurn Head ...	26·2	+6	N'E	3	c	54	85	49	7	5	7	–	4-6	10	1500	0	3
	Catterick (Sc)...	26·9	+2	N	2	2o	53	85	49	6	5	2	–	7-8	10	900	0	*
	Tynemouth ...	27·2	+2	N	3	c/d	53	97	53	7	–	2	–	10	10	900	1	2
11	St. Abbs Head	27·0	+2	N	3	c	52	85	47	8	5	2	–	7-8	10	1700	0	3
	Leuchars ...	27·5	+2	SSE	1	c	54	75	48	8	5	–	–	9+	9+	2000	0	*
12	Renfrew (Abbotsl.)	27·2	0	E'N	2	c	55	75	48	7	5	–	–	9+	9+	2500	0	*
	Eskdalemuir ...	26·9	0	NNE	2	d-do.	49	85	45	8	5	–	–	10	10	1800	1	*
	Point of Ayre...	26·0	+4	E	3	c	56	85	51	8	5	–	–	10	10	1800	0	4
13A	Tiree	26·7	+6	N'E	1	b	53	92	51	8	–	–	1	0	Tr	–	1	1
13B	Stornoway ...	28·7	+2	NE	3	2o	52	97	51	6	5	–	–	10	10	400	0	3
15	Dalwhinnie ...	27·5	–2	NE	3	c-bc	53	75	46	7	8	–	1	4-6	7-8	1500	0	*
•	Aberdeen † ...	27·6	+6	N'E	2	c/d	51	85	47	8	5	–	–	10	10	1500	0	2
	Wick ...	28·9	+4	NNE	3	c/d	50	97	49	8	5	–	–	9	9	1000	1	*
16	Sumburgh ..	28·3	+2	N	3	c	51	97	50	8	5	–	–	9+	9+	900	0	2
17	Blacknod Point	24·5	+2	SE	2	b	63	75	55	8	–	–	–	0	0	–	0	2
18	Malin Head ...	25·4	+2	SE	1	b	61	75	53	8	–	–	–	0	0	–	0	0
	Aldergrove ...	26·7	+10	SE	1	c-bc	55	85	51	7	7	–	–	7-8	7-8	2000	0	*
19	Birr Castle ...	24·5	+2	E	1	c	55	85	51	8	5	1	–	7-8	9	2500	0	*
20	Valentia Obsy.	22·9	0	–	0	b	61	85	56	8	5	–	–	Tr	Tr	2500	0	1
	Roches Point	23·1	0	E.	2	c-bc	56	92	54	7	5	–	–	7-8	7-8	2500	0	*2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Rainfall. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 30th Hrs. (38)
1	London (Kew)	69	54	53	-	-	3·2
	Croydon ...	70	54	54	–	Tr	3·5
	S. Farnborough	69	54	47	Tr	–	4·8
	Boscombe Down	68	52	40	Tr	–	3·9
	Thorney Island	67	53	45	-	-	*
	Lympne ..	68	53	51	Tr	–	6·6
	Manston ...	64	56	53	Tr	–	5·4
2	Shoeburyness ...	65	53	53	-	-	6·4
	Felixstowe ...	65	51	49	-	-	7·5
	Gorleston ...	63	54	53	-	-	4·7
	Mildenhall ...	63	52	53	-	-	2·7
	Cranwell ...	61	52	52	Tr	–	0·1
3	Birmingham ...	61	52	51	-	-	0·1
	Upper Heyford	62	52	42	-	-	*
4	Ross-on-Wye	61	53	47	-	-	0·0
5	Hartland Point	62	53	52	-	-	14·2
	Bristol	65		40	-	-	2·0
	Portland Bill ...	62	54	*	-	-	*
	Plymouth ...	63	53	40	-	-	6·6
	The Lizard ...	63	52	*	-	-	7·0
	Scilly (St.Mary's)	63	54	*	-	-	6·9
	Guernsey ...						
6	Pembroke ...	67	52	*	-	-	8·8
7	Holyhead (Valley)	68	52	47	-	-	*
	Chester (Sealand)	66	47	36	-	-	8·5
8	Manchester ...	60	51	53	-	-	*
10	Spurn Head ...	59	53	*	Tr	–	1·1
	Catterick (Sc)...	57	51	51	Tr	Tr	0·0
	Tynemouth ...	55	52	50	0·2	0·3	*
11	St. Abbs Head	55	50	*	-	Tr	*
	Leuchars ...	62	52	51	-	–	6·5
12	Renfrew (Abbotsl.)	77	54	51	-	–	12·4
	Eskdalemuir ...	67	47	47	-	Tr	13·3
	Point of Ayre...	65	54	*	-	–	15·5
13A	Tiree	67	54	48	-	–	15·3
13B	Stornoway ...	55	50	42	-	–	11·2
15	Dalwhinnie ...	73	40	31	-	–	13·1
•	Aberdeen † ...	63	51	49	-	Tr	10·8
	Wick ...	58	50	48	-	0·2	*
16	Sumburgh ..	58	49	46	-	-	8·9
17	Blacknod Point	76	58	*	-	–	*
18	Malin Head ...	64	53		-	–	14·5
	Aldergrove ...	74	52	48	-	0·1	15·1
19	Birr Castle ...	77	48	44	-	–	15·2
20	Valentia Obsy.	74	54	47	-	Tr	14·7
	Roches Point	71	52		-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 30th June ... 18h. G.M.T. | 01h. G.M.T. 1st July ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	5-	02845	02325	5-	01944	02314	5-	02638	02428	5-	52638	02458
115				--	48109	08449	52	09745	08428	--	67109	08469
203				00	05870	06400				00	05890	08300
206				50	05644	12312	5-	05648	00028	5-	05655	06125
210	5-	01854	02324	5-	02646	06318	5-	02738	03128	5-	02747	02227
219	00	00890	06400	00	00890	06400	00	00790	08500	54	01843	06513
230	00	00990	24200	00	00890	20300	00	17990	00000	10	00851	00011
245	10	01961	07401	10	01864	07401	5-	02746	06326	5-	02945	02327
260				00	00790	06300	5-	02758	06228	5-	02758	06328
278	10	05661	32101	14	01861	13311	50	01863	16113	53	01854	09205
279	70	01853	08413	40	01823	09423	5-	02855	06325	5-	02848	06358
285	5-	02746	02426							—	51638	06358
288	52	05647	02258	2-	05655	04225	5-	57338	01258	5-	05538	31258
575	10	01862	28102	70	01864	01214	00	05690	00001	10	01761	00011
301	60	01764	04314	03	01790	09313	5-	05667	04217	5-	05667	09327
321	5-	02848	02358	5-	02750	04328	5-	02748	04128	5-	02857	04227
299	5-	02746	02426	5-	02747	02227	5-	02747	02327	5-	02757	04327
292	5-	02858	31358	5-	02757	32328	5-	02848	01229	5-	02848	32228
310	--	02638	04428							--	02648	04428
614	52	02756	02328	5-	05645	04228	5-	05645	06228	5-	02757	04227

13h. G.M.T. 30th June ... 18h. G.M.T. | 01h. G.M.T. 1st July ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
388	10	01872	11302	00	05690	08400	00	05530	02100	5-	10654	04327
334	--	02663	06216							--	03656	12128
340	5-	05644	08228	5-	06486	02228	5-	05558	08228	5-	05647	12227
136	5-	21846	03458	5-	01847	01357	5-	02848	04428	5-	02848	06328
336	53	01754	08415	50	05658	08328				37	02754	08428
350	5-	02847	01327	5-	02744	02324	5-	05646	02226	5-	02747	03327
368	5-	05644	06318	5-	05656	06316	00	05690	12210	5-	05658	06328
379	6-	02845	02558	5-	02745	04226	5-	05638	06328	5-	02748	02328
390	5-	02757	02327	5-	02767	02417	5-	05648	32118	50	01743	02323
382	5-	02858	06228	5-	02867	03227	51	05648	06228	5-	02747	06227
438	5-	05657	02327	14	09762	06213	50	01753	02413	54	02755	02517
430				10	01763	04313	50	05662	02412	50	05654	01314
409	50	01755	17215	5-	02854	04124	40	05651	04311	04	01790	07201

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

1st July

For the 24 hours ending morning of .....

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	c	c b c y b c	c b c m.	Kew 24 hours ended 7h.
Croydon ...	c m. o c	c b c y	b c c d o c	Max. Time
Greenwich ...	c	c y	c b c b y	
Camden Square	c	b c	*	Min. Time
Kensington ...	b c	b c	*	
Hampstead ...	0	b c	b c	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	69	54	53	-	–	3·2	*	*
Croydon ...	70	54	54	-	Tr	3·5	*	*
Greenwich ...	69	53	53	-	-	3·3	53	59
Westminster ...	70	55	54	-	–		57	68
Regents Park ...	71	54	53	-	–		51	65
Camden Square	70	54	52	-	–	*	*	61
Kensington ...	72	54	53	-	–		49	59
Hampstead ...	66	51	50	-	–		*	66

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Friday, 2nd July 1943

No. 29806

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	22·6	-10	NNE	4	b	70	45	48	7	1	-	-	1	1	4000
	Croydon	22·9	-10	NE	3	b-bc	72	45	50	8	1	-	1	1	2-3	2500
	S. Farnborough	22·3	-10	NE	3	b	73	45	49	8	1	-	1	Tr	Tr	3500
	Boscombe Down	22·4	-6	NE	4	b-bc	73	35	46	8	1	-	1	1	2-3	3000
	Thorney Island	21·9	-6	ENE	3	bc	73	45	52	8	2	4	-	2-3	4-6	4000
	Lympne	22·9	-2	NE'N	5	c-bc	63	65	51	8	5	1	-	7-8	7-8	1600
	Manston	23·8	-2	NNE	3	c	59	85	54	8	5	-	-	10	10	1400
2	Shoeburyness	23·6	-8	ENE	4	b-bc	64	75	54	8	1	-	1	1	2-3	4000
	Felixstowe	23·3	-6	NE	5	bc	64	75	56	8	7	-	-	4-6	4-6	4000
	Gorleston	24·1	0	NNE	4	c	58	75	51	7	8	-	-	10	10	800
	Mildenhall	24·3	-6	NNE	4	b-bc	65	65	52	9	5	8	1	2-3	2-3	2500
	Cranwell	24·5	-8	NE	2	b-bc	68	65	53	8	7	-	1	2-3	2-3	3000
3	Birmingham	24·6	-4	NE	2	b	66	55	50	7	-	-	-	0	0	-
	Upper Heyford	23·2	-8	NEE	3	b	71	45	49	8	1	-	1	Tr	1	3500
4	Ross-on-Wye	23·6	-10	E'N	3	b	69	55	53	7	1	-	-	Tr	Tr	4000
5	Hartland Point	22·6	-4	NE	3	b	63	75	57	7	1	-	-	1	1	3000
	Bristol	23·1	-10	ENE	3	b-bc	71	45	54	8	1	-	2	2-3	2-3	4000
	Portland Bill	22·5	-4	E	3	c-bc	65	85	62	8	2	-	-	7-8	7-8	1000
	Plymouth	22·8	-4	E'N	3	c-bc	69	55	53	8	1	-	1	4-6	7-8	2500
	The Lizard	22·2	0	E	4	c	59	85	55	7	5	-	-	9+	9+	2000
	Scilly (St. Mary's)	22·3	-4	ENE	4	c-bc	68	65	56	7	8	4	-	7-8	7-8	1500
	Guernsey															
6	Pembroke	24·2	0	W	1	z₀	61	85	56	6	2	-	-	7-8	7-8	2500
7	Holyhead (Valley)	25·1	-2	SW'S	2	z₀	66	65	52	6	5	-	-	2-3	2-3	4000
	Chester (Sealand)	24·5	-10	SE'E	1	b	69	55	51	6	1	-	-	1	1	3000
8	Manchester	24·0	-14	-	0	z₀	71	55	54	6	1	-	-	Tr	Tr	4000
10	Spurn Head	26·3	-2	NNE	4	c	58	75	49	8	7	-	-	9	9	2500
	Catterick (Sc)	26·4	-6	NNE	1	z₀	62	65	50	5	7	-	-	7-8	7-8	1500
	Tynemouth	27·6	+4	NNE	3	c	56	75	47	8	5	-	-	9	9	2000
11	St. Abbs Head	27·5	+2	NNE	1	c	53	85	50	7	5	2	-	7-8	10	1500
	Leuchars	27·8	-4	E	2	c	57	75	49	8	5	-	-	10	10	2500
12	Renfrew (Abbots I.)	26·9	-4	ESE	3	z₀	64	65	51	6	5	-	-	4-6	4-6	2500
	Eskdalemuir	26·6	-6	ENE	2	c	55	85	48	8	5	-	-	10	10	1600
	Point of Ayre	26·3	0	E'N	2	c	59	75	50	7	5	-	-	10	10	4000
13A	Tiree	26·3	-8	W	2	bc	63	85	59	8	1	-	-	4-6	4-6	2800
13B	Stornoway	28·1	-2	NNE	5	z₀	55	92	52	6	5	-	-	9+	9+	500
15	Dalwhinnie	27·3	-6	NE	3	b	64	55	47	8	2	-	1	Tr	1	4000
	Aberdeen	27·3	-6	N'W	2	c	56	75	49	8	5	-	-	10	10	2000
	Wick	28·6	-2	ENE	3	c	53	85	49	8	5	-	-	10	10	1000
16	Sumburgh	28·1	-2	NE'E	3	bc	57	85	53	8	5	-	1	4-6	4-6	400
17	Blacksod Point	24·4	-2	-	0	bc	72	65	60	8	8	-	-	4-6	4-6	4000
18	Malin Head	25·7	+2	E	4	b	58	75	50	8	1	-	-	Tr	Tr	2500
	Aldergrove	26·4	-4	ENE	1	c	60	75	53	7	5	-	-	9	9	2000
19	Birr Castle	24·1	0	E	2	c	67	55	50	8	6	1	-	7-8	9	2500
20	Valentia Obsy.	23·5	+6	W'N	3	c	62	35	57	7	5	-	-	9+	9+	4000
	Roches Point	24·2	+6	E	4	z₀	64	75	56	6	8	-	-	7-8	7-8	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	22·0	+2	ENE	3	z₀	71	55	54	6	2	-	2	2-3	4-6	2500	0	*
Croydon	22·7	0	E	2	c-bc	68	65	55	8	2	-	2	1	7-8	2500	0	*
S. Farnborough	21·6	0	NE	3	c	73	45	48	8	1	-	4	4-6	9	4000	0	*
Boscombe Down	21·5	-6	NE'N	3	c-bc	72	35	45	8	1	-	2	2-3	7-8	4500	0	*
Thorney Island	21·3	0	S'W	2	bc	65	75	58	9	2	6	1	2-3	4-6	4000	0	*
Lympne	22·0	-2	NNE	5	b-bc	60	75	52	8	-	3	1	0	2-3	-	0	§ 3
Manston	22·3	-2	NNE	4	c	59	85	55	8	5	-	-	9	9	1000	0	*
Shoeburyness	23·0	-2	NE	5	c-bc	62	75	55	8	-	-	6	0	7-8	-	0	*
Felixstowe	22·8	-6	NNE	3	c	62	75	53	8	1	-	7	2-3	9	2500	0	3
Gorleston	23·8	-2	NNE	4	c	57	86	52	7	5	-	-	10	10	1000	0	3
Mildenhall	23·8	-2	NNE	4	b-bc	62	75	52	8	5	-	-	2-3	2-3	2500	0	*
Cranwell	24·8	0	NE	3	b-bc	62	75	52	9	-	6	2	0	2-3	-	0	*
Birmingham	23·4	-2	ENE	3	b-bc	70	35	41	8	1	-	-	2-3	2-3	4000	0	*
Upper Heyford	22·6	0	NE'E	4	b	69	45	46	9	1	-	1	Tr	1	3500	0	*
Ross-on-Wye	22·6	-6	ENE	3	b	72	35	43	8	1	-	1	1	1	4000	0	*
Hartland Point	22·2	0	NE	3	b	62	85	56	7	1	-	-	1	1	3500	0	4
Bristol	22·3	0	ENE	3	b	73	45	51	8	1	-	1	Tr	1	4000	0	*
Portland Bill	21·2	-12	S	2	c-bc	60	85	46	8	2	4	-	4-6	7-8	4000	1	3
Plymouth	22·0	-2	SW	3	b-bc	62	75	55	7	1	-	-	2-3	2-3	3000	0	1
The Lizard	21·7	-4	E	2	b-bc	64	65	53	8	7	-	-	2-3	2-3	3500	0	2
Scilly (St. Mary's)	22·4	0	N'E	3	b	63	85	57	7	5	-	-	1	1	1800	0	3
Guernsey																	
Pembroke	23·0	-2	NNE	3	b-bc	67	75	57	7	1	-	-	2-3	2-3	3000	0	2
Holyhead (Valley)	25·0	0	NE	3	z₀	62	75	53	6	5	-	-	Tr	Tr	4000	0	2
Chester (Sealand)	23·9	-2	NN'N	3	b	68	65	57	6	-	-	1	0	Tr	-	0	*
Manchester	23·3	-6	-	0	z₀	70	55	52	6	4	-	-	7-8	7-8	4000	0	*
Spurn Head	25·9	0	NNE	4	c	57	75	50	8	7	7	-	7-8	9+	2500	0	3
Catterick (Sc)	26·2	0	NE	3	z₀	60	65	49	5	-	-	8	0	4-6	-	0	*
Tynemouth	27·7	0	NE	3	b-bc	56	75	47	8	-	4	-	0	2-3	-	0	3
St. Abbs Head	27·1	-6	NNW	1	c	55	85	50	8	5	2	-	7-8	9	2500	0	3
Leuchars	26·8	-6	NE	1	c	57	92	55	8	5	2	-	9+	10	2000	0	*
Renfrew (Abbots I.)	25·8	-6	SE'E	2	b-bc	66	65	52	7	5	-	-	2-3	2-3	4000	0	*
Eskdalemuir	25·7	-4	NNE	2	b	61	65	51	8	1	4	-	Tr	Tr	3500	0	*
Point of Ayre	25·7	-4	-	0	b	61	65	50	8	-	-	-	0	0	-	0	1
Tiree	26·4	-2	W	2	b	62	85	56	8	-	-	-	0	0	-	0	1
Stornoway	28·0	+4	NNE	6	b-bc	55	92	53	7	6	-	-	2-3	2-3	600	0	4
Dalwhinnie	27·0	-4	NE	3	b	67	55	48	8	1	-	-	Tr	Tr	4000	0	
Aberdeen	27·1	-2	NNW	2	c	57	75	50	8	5	-	-	10	10	2000	0	1
Wick	27·8	-6	ENE	2	b	56	85	52	8	5	-	-	1	1	1000	0	
Sumburgh	27·8	+4	NE	2	b	61	85	55	8	-	-	9	0	1	-	0	2
Blacksod Point	24·0	-4	W	3	bc	68	75	60	8	8	-	-	4-6	4-6	4000	0	3
Malin Head	25·4	-2	E'N	4	b	59	65	47	8	1	-	-	Tr	Tr	2500	0	3
Aldergrove	26·3	-2	E'N	1	z₀	60	75	53	6	8	6	-	4-6	7-8	2000	0	*
Birr Castle	24·1	-2	E	1	c	68	65	56	8	5	1	-	7-8	9+	2500	0	*
Valentia Obsy.	24·2	+2	WNW	2	z₀	62	85	57	6	5	-	-	10	10	4000	0	2
Roches Point	24·3	0	E	4	b	63	85	58	7	-	-	-	0	0	-	0	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 1st (39)	Weather 13h.—18h. 1st (40)	Weather 18h. 1st to 1h. 2nd (41)	Weather 1h.—7h. 2nd (42)
London (Kew)	bzby	bcbczoy	cycbc	bcc
Croydon	bzy	bybcy	bcfgbcm	cmccm
S. Farnborough	bcby	b,cy	cycbcb	cmbc
Boscombe Down	ccocc	bcybybcy	bcybcb	bbccmbc
Thorney Island	bybcy	bcybc	bc	bmobc
Lympne	bcc	cbc	cm	bcmcm
Manston	comc	c	oc	oc
Shoeburyness	cbc	bcc	c	cbc
Felixstowe	cbc	bcb,c	c	c
Gorleston	c	c	c	c
Mildenhall	cbcbv	bybv	bbcc	ccm
Cranwell	by	bbcby	c	ccm
Birmingham	cb	b	b	bof
Upper Heyford	cbcby	bcby	bybcbcm	cm om
Ross-on-Wye	ccbcb	byby		bmwof
Hartland Point	bccc	b	b	b
Bristol	cbcbbc	bcyby	bybb	bbmof
Portland Bill	cc	bcc	bc	cc
Plymouth	cmcbc	bcybc	bm	bm b
The Lizard	c	cbc	bcb	cbc
Scilly (St. Mary's)	bcc	cbcb	b	bwbc
Guernsey				
Pembroke	cz	bcm	bcbm	bcm
Holyhead (Valley)	cb,cz	bcbz	bm	bm b
Chester (Sealand)	cmzbc	bzy	bbcm	b,cmff
Manchester	bcbzy	bcbzy	cbczm	bcbmw
Spurn Head	c	c	o	c
Catterick (Sc)	cz	bcz	bc	ccmm
Tynemouth	oc	cbc	c	c
St. Abbs Head	c	c	cmc	ccm
Leuchars	c	c	c	c
Renfrew (Abbots I.)	cbcm	bczobcyby	bdbccmbcm	wbmwfgcbm
Eskdalemuir	cdzdc	cbcb	bbc	bcc
Point of Ayre	c	cb	bw	b
Tiree	bbc	bcb	bmbmf	of
Stornoway	cmcm	cmocbcmb	bcmofe	offe
Dalwhinnie	cby	by		bbcf
Aberdeen	c	c	c *	cczo
Wick	c	cbcb	cmom FF	ofddm
Sumburgh	cbc	bcb	bom	odcbc
Blacksod Point	bc	bc	b	bc
Malin Head	b	b	b	b
Aldergrove	c	ccz	cpzbzbm	bmw
Birr Castle	c	c	*	bc
Valentia Obsy.	bc	c	c	b
Roches Point	c	c	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 2nd July 1943

Districts	
1 S.E. England 2 E. England 3 E. Midlands	Light or moderate northerly winds; cloudy locally near coasts today but fine elsewhere; cloudy generally tonight, with local drizzle and hill fog; rather warm by day; moderate temperature at night.
4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands	Light variable or northerly winds; mainly fine, with small amounts of cloud; local mist or fog in industrial areas towards dawn; warm by day, moderate temperature at night.
10 N.E. England 11 S.E. Scotland	Moderate northerly winds; cloudy, with some bright intervals today, local drizzle tonight; some hill fog tonight; rather cool.
12 S.W. Scotland & Isle of Man 13A W. Scotland 13B N.W. Scotland	Light variable or northeasterly winds; fine apart from cloudy conditions on and near north coast with occasional drizzle, local fog tonight; warm by day moderate temperature at night.
14 Mid Scotland 15 N.E. Scotland	Moderate northerly winds; cloudy, with some breaks; local hill fog; rather warm by day, moderate temperature at night.
16 Orkneys and Shetlands	As 14-15.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light variable winds; fine; warm by day, moderate temperature at night.

GENERAL INFERENCE

A large anticyclone is centred north of the British Isles and an associated ridge covers the British Isles. Weather will be cloudy in eastern districts, with local drizzle and coast fog; fine and warm in the West.

FURTHER OUTLOOK

Mainly cloudy in Great Britain. Continuing fine and warm in Ireland.

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday 2nd JULY 1943.

HIGH

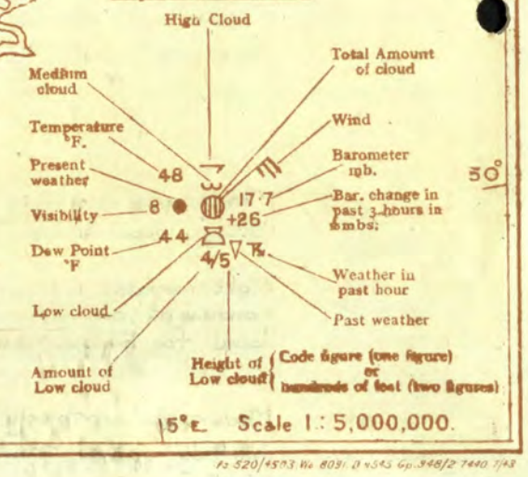
LOW

1030 1028 1026 1024 1022 1020 1018 1016

10° 5°W. 0° 5°E 10°

60° 55° 50°

STATION MODEL



5°E Scale 1: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

Fs 520/4503 We 8091 D 4545 Gp 348/2 7440 7/43

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Friday 2nd July

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday, 2nd July 1943

No. 29206

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0-9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0-10 (13)	Amount. Total 0-10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	55	*	*	*	*	*	*	*	*	*
	Croydon ...	290	24·6	+8	NE	1	₀	55	85	51	6	5	-	-	10	10	800
	S. Farnborough	226	24·4	+10	NE'N	1	b	54	92	52	7	5	-	-	Tr	Tr	4000
	Boscombe Down	417	24·0	+10	-	0	b	53	92	50	7	-	-	-	0	0	-
	Thorney Island	10	22·8	+16	NE	3	b	57	92	54	8	1	-	1	1	1	4000
	Lympne ..	283	23·2	0	NNE	5	₀	55	85	52	6	5	-	-	4-6	4-6	800
	Manston ...	154	24·2	+6	NNE	3	₀	56	85	53	7	5	-	-	10	10	600
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	24·4	+4	N'E	3	c	54	85	50	7	5	-	-	10	10	1100
	Gorleston ...	5	24·1	+2	N'W	1	c	53	85	50	7	5	-	-	10	10	800
	Mildenhall ...	15	25·0	0	N'E	3	c	53	85	49	7	5	-	-	10	10	1000
	Cranwell ...	203	25·8	+2	NE	3	c	52	97	50	7	5	-	-	9	9	900
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	25·0	+8	NE'E	3	₀	50	97	49	6	5	-	-	10	10	300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23·6	+6	NE	2	b	61	85	56	7	-	-	-	0	0	-
	Bristol	209	24·9	+10	-	0	b	52	85	49	8	-	-	-	0	0	-
	Portland Bill ...	32	22·9	+6	N	3	c-bc	59	85	54	8	5	-	-	7-8	7-8	4000
	Plymouth ...	86	23·5	+4	ENE	1	₀	58	92	58	6	-	1	-	0	Tr	-
	The Lizard ...	240	22·6	+6	NE	2	b	59	85	54	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	23·0	+1	NE'N	4	₀	59	92	57	6	-	-	-	0	0	-
	Guernsey ...	175															
6	Pembroke ...	142	24·8	+2	NE'E	3	b-bc	57	85	52	7	4	-	-	2-3	2-3	1000
7	Holyhead (Valley)	32	25·7	+2	-	0	₀	52	92	51	6	-	-	-	0	0	-
	Chester (Seland)	16	26·2	+6	-	0	b	52	92	50	5	-	-	-	0	0	-
8	Manchester ...	230	25·5	+10	-	0	₀	56	92	51	5	5	-	-	4-6	4-6	2500
10	Spurn Head ...	29	26·1	-2	N	3	c	53	85	49	7	5	-	-	10	10	1500
	Catterick (Sc)...	192	27·3	+1	-	0	c	43	97	43	7	5	-	-	10	10	1200
	Tynemouth ...	108	27·2	+6	N	3	c-bc	52	85	47	7	5	-	-	7-8	7-8	2500
11	St. Abbs Head	280	26·3	-4	N	2	c	52	92	49	7	5	-	-	10	10	1500
	Leuchars ...	36	26·8	-2	-	0	c	55	85	50	7	5	-	-	10	10	1200
12	Renfrew (Abbotsl.)	19	26·6	+4	-	0	₀	53	92	51	5	5	-	-	4-6	4-6	4000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	25·8	0	N	1	b	53	92	51	8	-	-	8	0	Tr	-
13A	Tiree	44	26·6	0	-	0	bf+	52	97	51	2	-	-	-	0	0	-
13B	Stornoway ...	12	28·2	-2	NNE	4	f+	52	97	52	2	5	-	-	10	10	100
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	27·2	-2	NNW	3	c	51	85	48	8	5	-	-	10	10	800
	Wick ...	114	27·9	+2	N	3	F	51	97	50	1	-	-	-	10	10	<150
16	Sumburgh ..	19	27·1	+2	N'W	3	₀	51	92	50	6	5	-	-	10	10	600
17	Blacksod Point	18	25·6	+4	E'N	1	b	60	92	58	8	-	-	-	0	0	-
18	Malin Head ...	84	26·1	+2	E	1	b	52	85	50	8	-	-	-	0	0	-
	Aldergrove ...	268	26·9	+2	-	0	₀	47	97	46	6	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	26·4	+6	ENE	1	₀	59	92	57	6	5	-	-	9+	9+	4000
	Roches Point	22	26·2	+8	N	1	₀	53	97	52	6	-	-	-	0	0	-

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0-12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0-9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0-10 (28)	Amount. Total 0-10 (29)	Height of Base (feet) (30)	State of Ground. 0-9 (31)	Sea. 0-9 (32)
1	London (Kew)	25·1	+2	NNE	2	c	55	85	49	7	5	-	-	9+	9+	2500	0	*
	Croydon ...	25·0	+2	NNE	2	c	54	85	48	6	5	-	-	9+	9+	1000	0	*
	S. Farnborough	25·0	+1	NE'N	2	bc	54	85	48	7	5	-	-	4-6	4-6	2000	0	*
	Boscombe Down	24·9	+2	NNW	1	bc	54	85	48	7	5	-	-	4-6	4-6	1200	0	*
	Thorney Island	23·9	+6	N'E	3	b-bc	57	85	51	7	1	-	1	2-3	2-3	2500	0	*
	Lympne ..	23·6	+2	NNE	5	₀	55	85	50	6	5	-	-	7-8	7-8	7000	0	*
	Manston ...	24·3	+2	N	3	₀	54	85	50	6	5	-	-	9+	9+	1300	0	*
2	Shoeburyness ...	24·4	0	N'W	3	bc	54	85	49	7	5	-	-	4-6	4-6	2500	0	*
	Felixstowe ...	24·0	-6	NW'N	3	c	55	85	50	8	5	-	-	9	9	1500	0	2
	Gorleston ...	24·1	0	N'W	4	c	53	85	49	7	5	-	-	9+	9+	800	0	3
	Mildenhall ...	25·1	+4	N'W	2	c	54	92	52	7	5	-	-	10	10	700	0	*
	Cranwell ...	25·5	0	NW	3	₀	51	92	49	6	5	-	-	10	10	1500	0	*
3	Birmingham ...	25·9	0	ENE	2	of	51	92	49	3	5	-	-	10	10	800	0	*
	Upper Heyford	25·5	+4	NNE	3	₀	51	92	49	5	5	-	-	10	10	400	0	*
4	Ross-on-Wye	25·6	0	E	1	of-	51	97	50	3	5	-	-	10	10	200	0	*
5	Hartland Point	24·2	+1	NE	2	b	62	75	53	8	1	-	-	Tr	Tr	3500	0	2
	Bristol	26·1	+4	ENE	2	o/f	51	97	50	5	5	-	-	10	10	500	0	*
	Portland Bill ...	24·0	+6	NE	3	c-bc	58	85	54	8	2	-	-	7-8	7-8	4000	1	3
	Plymouth ...	24·2	+6	SW	2	b	60	85	55	7	-	-	-	0	0	-	0	1
	The Lizard ...	24·8	+16	WNW	3	bc	61	85	56	8	4	4	-	2-3	4-6	3500	0	2
	Scilly (St. Mary's)	23·8	+6	NE	3	b-bc	60	85	56	6	5	4	2	1	2-3	1500	0	2
	Guernsey ...																	
6	Pembroke ...	25·2	+6	NE	1	b-bc	63	75	56	7	4	-	-	2-3	2-3	3000	0	1
7	Holyhead (Valley)	25·8	0	NNW	2	b	59	85	54	7	-	-	-	0	0		0	1
	Chester (Seland)	25·3	+2	-	0	b	57	86	53	5	-	-	-	0	0	-	0	*
8	Manchester ...	25·4	0	-	0	₀	54	92	52	5	-	-	-	0	0	-	0	*
10	Spurn Head ...	25·7	0	NW'N	4	c	53	85	49	7	7	2	-	7-8	10	1500	0	3
	Catterick (Sc)...	26·8	+4	NNE	2	₀	51	92	49	5	5	-	-	10	10	800	0	*
	Tynemouth ...	26·7	-2	N	3	c	53	85	49	7	5	-	-	9	9	1800	0	3
11	St. Abbs Head	26·1	+2	NNW	2	c	52	92	50	7	5	2	-	7-8	10	1100	0	3
	Leuchars ...	26·1	-2	-	0	b-bc	55	85	51	7	1	-	-	2-3	2-3	3000	0	*
12	Renfrew (Abbotsl.)	26·2	-2	-	0	₀	53	92	51	5	5	-	-	9+	9+	3000	0	*
	Eskdalemuir ...	26·2	0	NE	2	c	49	85	45	7	5	-	-	10	10	800	0	*
	Point of Ayre...	25·7	0	E'N	3	b	57	85	53	8	5	-	-	Tr	Tr	1800	0	2
13A	Tiree	26·7	+2	-	0	of-	57	97	56	2	5	-	-	10	10	100	1	1
13B	Stornoway ...	27·7	-2	NNE	3	of+	52	97	52	2	-	-	-	10	10	<150	0	2
15	Dalwhinnie ...	26·6	0	NNW	2	m	47	97	46	4	-	-	-	10	10	<150	0	*
	Aberdeen † ...	26·2	-4	NNW	3	₀	55	85	52	6	5	-	-	10	10	800	0	2
	Wick ...	27·8	+2	NE	2	d d d	51	97	51	5	5	-	-	10	10	100	1	*
16	Sumburgh ..	27·1	+1	NE	3	c-bc	55	85	51	8	5	-	-	7-8	7-8	1500	0	2
17	Blacksod Point	26·1	+1	-	0	b	63	85	58	8	-	4	-	Tr	Tr	-	0	1
18	Malin Head ...	25·1	+2	E	1	₀	58	85	54	6	-	-	-	0	0	-	0	0
	Aldergrove ...	26·8	-2	-	0	₀	55	92	53	6	-	-	-	0	0	-	1	*
19	Birr Castle ...	26·2	+2	NNE	1	b	52	92	50	7	-	-	-	0	0	-	0	*
20	Valentia Obsy.	27·1	+6	ENE	1	₀	57	92	55	6	5	-	-	2-3	2-3	1000	0	1
	Roches Point	26·5	+2	N	2	b	55	92	53	7	-	-	-	0	0	-	0	*2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Rainfall. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 1st Hrs. (38)
1	London (Kew)	74	52	50	-	-	13·1
	Croydon ...	74	51	52	-	-	12·4
	S. Farnborough	76	51	43	-	-	12·9
	Boscombe Down	75	46	44	-	-	15·0
	Thorney Island	76	51	45	-	-	*
	Lympne ..	65	53	51	-	-	11·6
	Manston ...	62	54	54	-	-	3·4
2	Shoeburyness ...	65	52	53	-	-	10·4
	Felixstowe ...	66	52	52	-	-	11·3
	Gorleston ...	59	53	51	-	-	0·1
	Mildenhall ...	67	52	50	-	-	10·5
	Cranwell ...	69	50	48	-	-	10·9
3	Birmingham ...	72	49	45	-	-	10·3
	Upper Heyford	74	48	41	-	-	*
4	Ross-on-Wye	74	48	41	-	-	11·2
5	Hartland Point	64	58	55	-	-	11·3
	Bristol	74	45	34	-	-	12·4
	Portland Bill ...	65	54	*	-	-	*
	Plymouth ...	74	55	42	-	-	11·9
	The Lizard ...	65	57	*	-	-	7·1
	Scilly (St. Mary's)	70	55	*	-	-	10·8
	Guernsey ...						
6	Pembroke ...	69	55	*	-	-	10·7
7	Holyhead (Valley)	69	49	45	-	-	*
	Chester (Seland)	75	51	41	-	-	9·1
8	Manchester ...	73	49	41	-	-	*
10	Spurn Head ...	61	52	*	-	-	6·2
	Catterick (Sc)...	66	45	39	-	-	7·4
	Tynemouth ...	63	45	40	Tr	-	5·6
11	St. Abbs Head	61	51	*	-	-	*
	Leuchars ...	59	52	44	-	-	0·2
12	Renfrew (Abbotsl.)	67	46	42	-	0·1	7·9
	Eskdalemuir ...	63	45	40	Tr	-	5·6
	Point of Ayre...	62	48	*	-	-	6·3
13A	Tiree	65	49	43	-	-	14·7
13B	Stornoway ...	57	50	51	-	-	5·5
15	Dalwhinnie ...	69	41	29	-	-	13·7
	Aberdeen † ...	59	51	50	-	-	0·1
	Wick ...	56	49	49	-	0·4	*
16	Sumburgh ..	61	51	49	-	Tr	7·5
17	Blacksod Point	73	*	*	-	-	*
18	Malin Head ...	61	50		-	-	15·8
	Aldergrove ...	62	42	37	-	Tr	7·5
19	Birr Castle ...	69	46	42	-	-	*
20	Valentia Obsy.	69	52	45	-	Tr	*
	Roches Point	65	*53		-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 1st July ... 18h. G.M.T. | 01h. G.M.T. 2nd July ... 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109			5-	05538	01328	5-	08313	32348	5-	05638	03328
115 52	09735	08468	52	09735	08428	--	48009	08449	--	67009	08469
203			00	05890	04300						
206 50	01854	06214	5-	01844	12314	5-	21698	10158	5-	02717	00027
210 5-	02958	07328	5-	02846	07226	5-	02738	31128	5-	02758	22228
219 50	01841	07411	00	00890	26563	5-	05733	09303	50	49504	09244
280 20	01151	20301	5-	05764	19304	50	05671	00021	5-	05517	00049
245 5-	02845	06825	5-	02844	10128	5-	02747	06127	10	01751	1221
260 5-	02755	04220	50	01863	08313	5-	05564	04228	5-	05654	08124
276 5-	02867	07217	56	01862	30322	04	00890	25102	03	01690	00014
279 5-	01864	01224	10	01861	02311	54	01863	06313	10	01755	06315
285 10	01753	10313							--	44309	10245
288 2-	05655	02325	51	05663	02314	5-	08438	29228	5-	05648	31228
575 10	01863	10213	10	01861	10101	00	05690	00000	10	05541	00011
301 50	01652	24312	00	05690	29301	00	05550	06210	5-	08465	10205
321 10	01854	04224	10	01861	08313	00	05590	28110	5-	05534	32148
299 5-	02758	02328	5-	02755	32315	5-	02746	32416	5-	02757	32427
292			50	01863	07313	00	05690	00000	5-	05638	29328
310											
614 --	05690	04311	40	01771	06212	5-	05664	32128	5-	05548	32228

13h. G.M.T. 1st July ... 18h. G.M.T. | 01h. G.M.T. 2nd July ... 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
388 10	17761	12113	10	17761	28211	00	05690	26100	00	05690	27201
334 --	05653	02114									
340 00	05690	00015	10	01762	08212	00	05690	16100	5-	48318	12248
136 5-	02958	04328	5-	02947	04427	5-	02838	04323			
336 10	01763	12313	13	01763	12314				50	05546	04315
350 14	01861	02411	10	01861	04402	5-	05637	02328	5-	05638	02228
368 10	05653	08303	10	01863	08303	00	00690	00000	00	05690	06100
379 00	01790	02412	10	02861	02514				--	46209	01249
390 10	01862	04412	10	01863	03313	5-	05648	04376	52	05648	32428
382			10	01851	05313	50	01834	06214	5-	05638	02126
438 10	09763	04513	24	01762	04414	50	02653	32515	50	05643	02513
430 40	01764	05414	40	01853	14114	04	01790	06413	50	05643	02113
409 80	01754	02324	20	01764	02314	00	05690	03100	00	01890	03211

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 2nd July

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	b$_2$ by	b,c bc$_2$ y	cy bc bc	Kew 24 hours ended 7h. Max. Time 0.1 Min. Time Whole of Period.
Croydon ...	bz$_4$	by bcy	by bc bc	
Greenwich ...	by	bbc ⊕	by bc	
Camden Square ...	b	b	*	
Kensington ...	bc	bc	*	
Hampstead ...	bc	bc	bc	

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	74	52	50	-	-	13·1	*	*
Croydon ...	74	51	52	-	-	12·4	*	*
Greenwich ...	74	51	50	-	-	14·4	49	67
Westminster ...	76	53	53	-	-		51	75
Regents Park ...	76	53	51	-	-		45	74
Camden Square ...	77	52	50	-	-	*	*	74
Kensington ...	77	57	51	-	-		63	71
Hampstead ...	72	49	48	-	-		*	79

SECRET

Page 1

THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 3rd July 1943 — No. 29808

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	23·1	+20	N'E	3	b	72	45	48	7	1	–	–	Tr	Tr	2500
	Croydon ...	23·5	-12	N	2	b	69	65	57	7	–	–	–	0	0	–
	S. Farnborough	22·8	-14	N'E	3	b	76	45	51	7	1	–	–	Tr	Tr	3000
	Boscombe Down	23·5	-10	NNE	3	b	75	75	67	7	1	–	–	1	1	3000
	Thorney Island	22·9	-8	N	3	b	75	45	50	8	1	–	–	Tr	Tr	4000
	Lympne ...	23·2	-6	NNW	2	b	71	55	53	8	–	–	2	0	Tr	–
	Manston ...	23·0	-18	NW	1	b	65	65	52	7	5	–	–	Tr	Tr	4000
2	Shoeburyness ...	23·3	-14	ESE	2	b	67	65	57	8	–	–	–	0	0	–
	Felixstowe ...	22·5	-14	NE'N	3	b	72	55	55	8	–	7	–	0	Tr	–
	Gorleston ...	23·3	-4	NNW	4	b-bc	53	75	50	7	2	–	1	2-3	2-3	1500
	Mildenhall ...	23·9	-8	NW'N	3	c-bc	63	75	54	7	5	–	–	7-8	7-8	1500
	Cranwell ...	23·5	-14	NNW	3	2o	67	65	54	6	–	–	2	0	1	–
3	Birmingham ...	23·7	-8	N	3	b-bc	72	35	43	7	1	–	–	2-3	2-3	2500
	Upper Heyford	23·2	-16	N	3	2o	73	55	54	6	1	–	–	1	1	4000
4	Ross-on-Wye	23·3	-10	NNW	3	2o	74	55	55	7	2	–	–	1	1	3000
5	Hartland Point	24·6	0	ENE	3	b	64	65	53	7	1	–	–	1	1	3500
	Bristol ...	24·1	-12	N	2	b	73	65	60	7	–	–	–	0	0	–
	Portland Bill ...	24·0	-6	S	2	bc	61	85	58	8	2	–	–	4-6	4-6	4000
	Plymouth ...	24·4	+2	SSW	3	b	65	75	55	8	1	–	–	1	1	3000
	The Lizard ...	24·9	0	E	3	b-bc	67	75	59	8	2	–	–	2-3	2-3	4000
	Scilly (St. Mary's)	24·9	+6	NNE	3	b	68	65	56	8	–	–	–	0	0	–
	Guernsey ...															
6	Pembroke ...	25·6	0	NNW	1	b	71	65	57	7	–	1	–	0	1	–
7	Holyhead (Valley)	25·7	-2	NNW	2	b	63	75	53	7	–	–	–	0	0	–
	Chester (Sealand)	24·4	-2	N'W	4	2o	68	65	54	6	–	–	–	0	0	–
8	Manchester ...	23·5	-1·4	N	4	b	73	45	52	7	4	–	1	Tr	Tr	4000
10	Spurn Head ...	24·4	-6	N'E	5	bc	60	75	50	7	7	3	–	2-3	4-6	4000
	Catterick (Sc) ...	25·1	-10	NE	3	2o	64	55	50	6	–	3	–	0	Tr	–
	Tynemouth ...	26·3	-4	N	4	2o	55	92	52	6	5	–	–	9+	9+	1800
11	St. Abbs Head	25·9	-2	NNW	3	c	54	92	52	5	5	2	–	7-8	10	1500
	Leuchars ...	25·9	+2	E	3	2o	61	75	52	6	5	–	–	Tr	Tr	1500
12	Renfrew (Abbotsl.)	24·1	-1·4	NNE	2	b	73	45	52	7	1	–	–	Tr	Tr	3000
	Eskdalemuir ...	24·4	-10	NNE	2	b	65	75	55	7	1	–	–	Tr	Tr	3200
	Point of Ayre ...	25·6	-1	NE	1	b	61	75	51	8	–	–	9	0	Tr	–
13A	Tiree	25·9	-6	SSE	1	bc	65	85	59	8	5	–	–	4-6	4-6	3000
13B	Stornoway ...	26·5	-12	NNE	5	2o	55	92	53	7	5	–	–	7-8	7-8	900
15	Dalwhinnie ...	26·8	-6	NNE	3	b	69	55	52	7	1	–	–	Tr	Tr	4000
	Aberdeen ...	26·6	+2	NW	3	c	55	85	50	8	5	–	–	10	10	1500
	Wick ...	27·4	-6	NE	3	b-bc	56	75	49	8	5	–	–	2-3	2-3	1500
16	Sumburgh ...	27·2	-2	ENE	4	b-bc	55	85	48	8	5	–	–	2-3	2-3	2000
17	Blacksod Point	27·0	+2	NW	3	c-bc	64	85	60	8	8	–	–	7-8	7-8	4000
18	Malin Head ...	25·9	-2	NE	1	b	62	65	50	8	–	–	–	0	0	–
	Aldergrove ...	25·5	-6	WSW	1	b	69	65	57	7	1	–	–	1	1	3000
19	Birr Castle ...	25·5	-6	NNE	2	c-bc	73	97	72	7	4	–	8	4-6	7-8	2500
20	Valentia Obsy.	27·2	+2	W'S	3	b	67	85	62	6	1	–	–	1	1	2500
	Roches Point	26·7	0	S	2	b	67	75	59	8	1	–	–	1	1	4000

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

District	Stations	Barom. at M.S.L. ·mt. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	21·1	-10	N'W	1	b-bc	76	35	48	7	–	–	1	0	2-3	–	0	*
	Croydon ...	22·1	-6	NNE	3	b	70	55	49	7	–	–	1	0	c	–	0	*
	S. Farnborough	21·2	-10	NNE	3	b	76	35	50	8	1	–	1	Tr	1	5700	0	*
	Boscombe Down	21·8	-10	N	2	b	76	35	46	7	1	–	–	1	1	4000	0	*
	Thorney Island	22·0	-8	SE	3	b	70	65	57	7	1	–	–	Tr	Tr	4000	0	*
	Lympne ...	22·0	-8	SE	3	b	60	85	54	8	–	3	–	0	1	–	0	1
	Manston ...	21·8	-10	ESE	2	bc	62	75	54	8	5	3	–	Tr	4-6	1800	0	*
2	Shoeburyness ...	22·0	-6	ESE	3	bc	63	85	57	8	–	1	9	0	4-6	–	0	*
	Felixstowe ...	21·6	-1·4	SE	2	b-bc	63	85	58	8	–	3	9	0	2-3	–	0	1
	Gorleston ...	22·1	-4	N'W	4	c-bc	60	75	51	7	5	–	–	7-8	7-8	1000	0	3
	Mildenhall ...	22·0	-10	N'E	3	b	66	65	54	7	–	–	1	0	1	–	0	*
	Cranwell ...	22·5	-2	NE	1	b	65	75	55	8	–	–	2	0	Tr	–	0	*
3	Birmingham ...	21·9	-2	NNW	1	b	72	35	43	8	–	–	–	0	0	–	0	*
	Upper Heyford	21·2	-2·4	N'W	2	2	75	45	52	6	4	–	–	2-3	2-3	3500	0	*
4	Ross-on-Wye	21·9	-1·2	NW'N	3	c-bc	73	55	54	8	7	–	–	7-8	7-8	3500	0	*
5	Hartland Point	23·5	-10	WNW	3	b	64	75	56	7	–	–	–	0	0	–	0	2
	Bristol ...	22·5	-10	W	3	bc	71	65	59	7	–	–	2	0	4-6	–	0	*
	Portland Bill ...	22·3	-6	W	3	bc	61	85	58	8	2	–	–	4-6	4-6	4000	1	3
	Plymouth ...	23·1	-8	SSW	2	c-bc	64	85	58	8	1	–	–	7-8	7-8	3000	0	1
	The Lizard ...	23·3	-6	–	0	bc	69	75	59	8	7	–	–	4-6	4-6	4000	0	3
	Scilly (St. Mary's)	24·4	-4	N'E	3	b	66	65	54	8	–	–	1	0	1	–	0	-2
	Guernsey ...																	
6	Pembroke ...	24·3	-4	NNW	1	b	68	75	57	8	1	1	–	1	1	3000	0	1
7	Holyhead (Valley)	24·6	-12	NNW	2	b	63	75	55	7	–	–	1	0	Tr	–	0	1
	Chester (Sealand)	23·1	-6	NNW	4	b	64	75	55	7	–	–	1	0	Tr	–	0	*
8	Manchester ...	22·8	-4	NNW	3	b	68	65	54	7	–	–	–	0	0	–	0	*
10	Spurn Head ...	23·8	-2	N	5	c	56	85	52	7	5	2	–	7-8	10	1500	0	4
	Catterick (Sc) ...	24·9	+2	NNE	3	2	59	75	52	6	5	3	–	4-6	9	2500	0	*
	Tynemouth ...	25·8	-2	N	4	c	54	85	50	6	6	–	–	9+	9+	1000	0	3
11	St. Abbs Head	25·4	-6	NNE	2	c	54	92	51	7	5	–	–	9	9	2000	0	3
	Leuchars ...	25·3	-4	ENE	3	b	60	75	51	8	4	–	–	Tr	Tr	4000	0	*
12	Renfrew (Abbotsl.)	23·1	-2	ENE	3	2	68	75	58	6	1	–	–	1	1	3500	0	*
	Eskdalemuir ...	23·8	-2	NE'N	3	2	62	75	54	6	1	–	–	Tr	Tr	3500	0	*
	Point of Ayre ...	24·1	-1·4	NW'W	3	b	61	97	60	8	–	–	–	0	0	–	0	2
13A	Tiree	25·1	-6	ojf	1	b-bc	56	92	56	6	5	–	–	10	10	500	1	1
13B	Stornoway ...	25·0	-10	NNE	4	b-bc	56	85	62	7	–	4	–	0	2-3	–	0	3
15	Dalwhinnie ...	24·7	-2	NE	3	b	66	55	48	8	2	–	–	Tr	Tr	4000	0	*
	Aberdeen ...	25·2	-10	WSW	3	b	59	65	48	8	5	–	–	Tr	Tr	1500	0	2
	Wick ...	20·5	-6	NE	3	b-bc	54	85	49	8	1	–	–	2-3	2-3	2000	0	*
16	Sumburgh ...	26·4	-4	ENE	4	b-bc	54	75	46	8	5	3	1	1	2-3	2000	0	3
17	Blacksod Point	26·8	-2	NW	1	c	60	85	55	7	5	–	–	10	10	4000	0	2
18	Malin Head ...	25·1	-2	N	1	bjf	60	92	58	6	–	–	–	0	0	–	0	*
	Aldergrove ...	23·9	-1·0	WNW	1	b	73	65	59	7	1	–	–	1	1	3000	0	*
19	Birr Castle ...	24·2	-1·0	NNE	1	c-bc	74	55	57	7	4	–	8	4-6	7-8	2500	0	*
20	Valentia Obsy.	26·1	-8	N'W	4	b	66	85	61	8	1	–	–	1	1	1500	0	3
	Roches Point	24·6	-1·8	S'W	2	b	68	75	60	7	1	–	–	1	1	4000	0	3

PAST 24 HOURS. — WEATHER.

District	Stations	7h.—13h. 2nd (39)	13h.—18h. 2nd (40)	18h. 2nd to 1h. 3rd (41)	1h.–7h. 3rd (42)
1	London (Kew)	cbc2oby	bcc,by	bbcyc	c1o2o
	Croydon ...	b	by	bbcyz3bm3	bm3cm3
	S. Farnborough	bcb2oby	bbcby	bybcm3bm3	omm3
	Boscombe Down	bcb2oby	by	bybcm3bm3	bm3of
	Thorney Island	bcbybcy	bcbyb	bbfg	bfgcm3
	Lympne ...	bcm3bby	b	bbmow	bm3wocm3
	Manston ...	cm3cb	b	bcwc	cocm2o
2	Shoeburyness ...	bcbbcb		bc	bcc
	Felixstowe ...	bcbby	bcb	c	cbc
	Gorleston ...	cbc	bcc	o2o	cbc
	Mildenhall ...	c	bcby	bc1dom3	cm3doc
	Cranwell ...	cbm3	bz2c1ycb	cm3	cm3
3	Birmingham ...	fobc	bcby	b	bbcm
	Upper Heyford	bm3bz2o	bbcz2y	bcz2ybm3cm3	ofom3
4	Ross-on-Wye	ofc2b2o	bybcy	cb	bmwof
5	Hartland Point	b	b	b	b
	Bristol ...	cm3bm3bz2o	bcybybcy	bcbbm3	bm3ow
	Portland Bill ...	c	bcbc	bcbc	bcc
	Plymouth ...	bbyb	bbc	bm3	bm3b
	The Lizard ...	bc	bc	bc	bcb
	Scilly (St. Mary's)	bcb	b	b	cbcb
	Guernsey ...				
6	Pembroke ...	bcbm3	b	bc	bc
7	Holyhead (Valley)	b	b	bm3	bmifbfg
	Chester (Sealand)	cm2o	bz2y	bz2m3m3	cm3ff
8	Manchester ...	bm3w2o	by	bm3mw	ofbfew
10	Spurn Head ...	bc	c	c	c
	Catterick (Sc) ...	cm3bc2o	bz2yc2	cmbcm3	cm3
	Tynemouth ...	cm3	cmc	c	c
11	St. Abbs Head	cm3	cm3	cmobc	cm3
	Leuchars ...	b	bz2o2bby	bbbbm3bm3bcm3cm3c	
12	Renfrew (Abbotsl.)	bz2obby	byzyfoyzy	cbcm3bm3cbm3bcm3cm3	
	Eskdalemuir ...	cbcb	bz2	bcc2m3	om3c
	Point of Ayre ...	b	b2	b	b,c
13A	Tiree	bcfbc	bcif	cmof	cfcidom3
13B	Stornoway ...	fcm3	cm3bc	bcbbc	bcwifcwm3
15	Dalwhinnie ...	fb	b		bc
	Aberdeen ...	cz2c	cbcb	bbw	bwbcc
	Wick ...	cm3cbc	bc	bcfgm	bcfgc
16	Sumburgh ...	bcb	bbbc	bbc	bcc
17	Blacksod Point	bc	c	c	d
18	Malin Head ...	b	b	f	c
	Aldergrove ...	bm3wbz2o	b	bm3wf	cmm3
19	Birr Castle ...	c	c		c
20	Valentia Obsy.	b	b	b	bc
	Roches Point	b	b	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 3rd July 1943

Districts	
1	S.E. England
2	E. England ..
3	E. Midlands ...
4	W. Midlands
5	S.W. England
6	South Wales

Light variable or northerly winds; fine; cloud locally on East coast; local fog around dawn; rather warm by day; moderate temperature at night.

7	North Wales
8	N.W. England
9	N. Midlands ...

Light variable or northwesterly winds; fine at first, becoming cloudy tonight with hill fog and local drizzle; rather warm; becoming moderate temperature.

10	N.E. England
11	S.E. Scotland

Light variable winds; fine; rather warm by day; moderate temperature at night.

12	S.W. Scotland & Isle of Man
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland

Light or moderate westerly winds; cloudy, with much hill fog, local coast fog and some drizzle; rather cool.

15	N.E. Scotland

Light variable to moderate southwest winds; variable cloud at first, becoming cloudy with occasional rain or drizzle; rather warm by day; moderate night temperature.

16	Orkneys and Shetlands

17	N.W. Ireland
18	N.E. Ireland
19	S.E. Ireland
20	S.W. Ireland

Light or moderate northwest winds; cloudy with local drizzle, but appreciable clear intervals well inland in afternoon; appreciable hill fog; rather warm by day; moderate night temperature.

GENERAL INFERENCE

Pressure is high to the west and low to the East of the British Isles, and a depression north of Iceland is moving East. Weather will be cloudy in northwestern districts with drizzle and hill fog; fine and warm elsewhere.

FURTHER OUTLOOK

Fine and warm in southeastern districts; cloudy in the northwest.

Forecasts issued at 10.30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday, 3rd July 1943.

10° 5°W. 0° 10°

60° 55° 50°

HIGH

Low

HIGH

HIGH

Low

1022 1024 1026 1020 1018 1016 1014 1012 1010 1008 1006 1004 1002 1000 998 996 994 992 990 988 986 984

Mb In

1050 1040 1030 1020 1010 1000 990 980 970 960 950 940 930

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud: Code figure (one figure) or hundreds of feet (two figures)

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1 : 5,000,000

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as " warm " or " cold " occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the " warm " or " cold " symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of
Saturday 3rd July
1943.

Clarke's Projection Scale 1 : 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—
= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis
Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 3rd July 1943 — No. 29808

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	56	*	*	*	*	*	*	*	*	*
	Croydon ...	290	23·2	+6	NE	2	b	56	92	54	6	–	–	–	0	0	–
	S. Farnborough	226	21·7	+10	NE	1	2o	59	85	54	5	–	–	–	0	0	–
	Boscombe Down	417	22·8	+2	NW'N	1	2o	59	85	53	6	–	–	–	0	0	–
	Thorney Island	10	22·0	+4	–	0	fg	55	92	54	7	–	–	–	0	0	–
	Lympne ..	283	22·4	+2	NNE	2	2o	53	97	53	6	5	–	–	2-3	2-3	1000
	Manston ...	154	22·2	0	NW	1	c	57	92	55	7	5	–	–	3	3	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	22·3	+2	NW'N	2	c	55	75	47	6	5	–	–	10	10	2500
	Gorleston ...	5	22·0	-6	NNW	4	o	55	92	52	6	5	–	–	10	10	800
	Mildenhall ...	15	22·6	-2	NW'W	2	o/d	55	92	52	6	5	–	–	10	10	900
	Cranwell ...	203	23·3	-4	NW	2	2o	54	85	50	5	5	–	–	10	10	1200
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	22·9	+6	–	0	if	53	97	53	3	5	–	–	10	10	100
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23·7	0	NNE	3	b	59	85	53	7	–	–	–	0	0	–
	Bristol ...	209	23·3	+2	W	1	2o	58	85	54	5	–	–	–	0	0	–
	Portland Bill ...	32	22·3	-6	NW	8	bc	62	85	56	8	5	–	–	4-6	4-6	4000
	Plymouth ...	86	23·8	0	NE	1	2o	60	75	53	6	–	–	–	0	0	–
	The Lizard ...	240	23·7	0	NNE	3	b-bc	60	65	47	8	4	–	–	2-3	2-3	3000
	Scilly (St. Mary's)	163	24·8	0	N	2	b	58	92	56	7	–	–	–	0	0	–
	Guernsey ...	175															
6	Pembroke ...	142	24·0	-6	NNW	2	b-bc	58	85	52	8	1	–	–	2-3	2-3	2500
7	Holyhead (Valley)	32	24·2	-2	–	0	if	48	97	47	4	–	–	–	0	0	–
	Chester (Sealand)	16	23·3	-4	–	0	m	50	92	48	4	–	–	–	0	0	–
8	Manchester ...	230	23·3	0	–	0	f+	53	92	53	2	–	–	–	10	10	≤150
10	Spurn Head ...	29	23·5	+2	NNW	4	c	53	75	47	7	7	–	–	9+	9+	1500
	Catterick (Sc)...	192	24·8	-2	NE	1	b-bcf	47	92	46	5	5	–	–	2-3	2-3	1200
	Tynemouth ...	108	25·3	-2	NNW	3	c	51	85	47	7	5	–	–	9+	9+	1500
11	St. Abbs Head	280	24·8	0	NNE	3	c-bc	51	92	49	7	5	–	–	7-8	7-8	2500
	Leuchars ...	36	24·3	-10	–	0	2o	47	92	46	6	5	7	–	4-6	7-8	1500
12	Renfrew (Abbotsl.)	19	24·1	-2	ENE	1	2o	53	92	51	6	5	–	–	Tr	Tr	3500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	23·8	+2	–	0	b	55	97	54	8	–	–	–	0	0	–
13A	Tiree	44	24·3	-4	WSW	1	of-	54	97	54	2	5	–	–	10	10	≤150
13B	Stornoway ...	12	22·6	-12	–	0	b-bc	50	97	50	8	–	4	4	0	2-3	–
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	24·3	-10	–	0	b-bc	44	92	42	8	5	3	–	1	2-3	2500
	Wick ...	114	25·0	-10	–	0	bcf	43	97	41	2	6	3	–	4-6	4-6	500
16	Sumburgh ..	19	24·5	-12	NE	2	b	47	85	44	8	5	–	–	1	1	2500
17	Blacksod Point	18	26·5	-2	NNW	1	c	57	92	55	7	5	–	–	10	10	2500
18	Malin Head ...	84	24·4	-6	W	2	c	56	92	54	7	5	–	–	10	10	800
	Aldergrove ...	268	24·8	-2	NNW	1	f+	53	97	53	1	–	–	–	10	10	≤150
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	26·3	0	SE	1	b	56	92	54	8	–	–	1	0	Tr	–
	Roches Point	22	24·8	-2	N	3	b	61	85	56	8	–	–	–	0	0	–

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	23·4	+6	NE'N	2	2o	57	75	50	6	5	–	–	10	10	4000	0	*
	Croydon ...	24·0	+6	N	1	2o	57	85	52	6	5	–	–	10	10	1400	0	*
	S. Farnborough	23·7	+6	N	1	2o	56	85	50	5	5	–	–	10	10	600	0	*
	Boscombe Down	23·6	+8	N	1	f+	53	97	52	2	–	–	–	10	10	≤150	0	*
	Thorney Island	23·1	+8	NNE	1	2o	56	92	53	5	5	–	–	10	10	800	0	*
	Lympne ..	23·2	+4	NW	3	2o	56	85	50	6	5	2	–	9+	10	1400	0	* 1
	Manston ...	23·4	+6	NW	3	2o	56	85	50	6	5	–	–	10	10	1300	0	*
2	Shoeburyness ...	22·9	+2	NW	2	c	56	85	50	7	5	–	–	10	10	1500	0	*
	Felixstowe ...	22·8	+6	NNW	3	c	56	85	50	8	5	–	–	9	9	1500	0	2
	Gorleston ...	22·2	+2	NW'N	3	c-bc	54	75	47	7	5	–	–	7-8	7-8	1500	0	3
	Mildenhall ...	23·7	+10	NW	3	c	54	75	47	8	5	–	–	9+	9+	1500	0	*
	Cranwell ...	23·5	+2	N	2	2o	52	85	47	6	5	–	1	2-3	4-6	1000	0	*
3	Birmingham ...	23·5	+4	–	0	m	57	85	53	4	5	–	–	7-8	7-8	2500	0	*
	Upper Heyford	23·4	+4	NNE	2	2o	55	85	52	5	5	–	–	10	10	700	0	*
4	Ross-on-Wye	23·8	0	NE	1	of	54	97	53	3	5	–	–	10	10	200	0	*
5	Hartland Point	23·6	+4	NW	2	2o	60	85	54	6	–	–	–	0	0	–	0	2
	Bristol ...	23·9	+2	–	0	2o	58	92	55	5	–	–	–	0	0	–	0	*
	Portland Bill ...	22·9	+10	NE	2	c-bc	63	85	58	7	5	–	–	7-8	7-8	4000	1	3
	Plymouth ...	24·0	+6	NW	2	b	61	85	55	7	–	–	–	0	0	–	0	1
	The Lizard ...	24·8	+10	NNE	2	b	61	85	58	7	–	–	–	0	0	–	0	3
	Scilly (St. Mary's)	24·4	+2	NW'N	2	b	60	97	58	6	–	–	–	0	0	–	0	2
	Guernsey ...																	
6	Pembroke ...	24·0	+2	–	0	b-bc	60	85	54	7	5	–	–	2-3	2-3	2500	0	1
7	Holyhead (Valley)	24·1	+2	SW'S	2	2o	57	92	55	6	–	–	2	0	4-6	–	0	1
	Chester (Sealand)	23·4	-1	–	0	m/f	53	92	53	4	5	–	4	1	4-6	1500	0	*
8	Manchester ...	23·3	+2	–	0	m/f	56	92	54	4	5	–	–	9+	9+	2000	0	*
10	Spurn Head ...	23·3	0	NW	3	c	53	85	49	7	7	7	–	9+	9+	1500	0	3
	Catterick (Sc)...	24·7	+2	N	2	2o	48	92	46	6	5	–	–	9+	9+	1500	0	*
	Tynemouth ...	24·6	-4	NNE	3	c-bc	51	85	46	7	2	3	1	4-6	7-8	1600	0	3
11	St. Abbs Head	24·0	0	NNE	1	c	52	85	48	7	5	2	–	7-8	9+	2500	0	3
	Leuchars ...	23·5	-2	–	0	c-bc	54	85	50	7	5	7	–	4-6	7-8	2500	0	*
12	Renfrew (Abbotsl.)	23·5	0	NE'E	1	2o	55	85	51	6	5	–	–	10	10	4500	0	*
	Eskdalemuir ...	22·8	-6	–	0	c	53	85	47	8	–	3	7	0	10	–	0	*
	Point of Ayre...	23·4	+2	NE	2	c-bc	57	85	52	7	5	–	4	4-6	7-8	4000	0	2
13A	Tiree	23·8	0	WNW	1	id.	53	97	53	6	5	–	–	10	10	400	1	1
13B	Stornoway ...	21·6	-4	–	0	2o	55	97	54	6	5	–	–	10	10	500	0	1
15	Dalwhinnie ...	23·3	-6	–	0	c-bc	53	85	48	7	5	3	9	2-3	7-8	1500	0	*
	Aberdeen † ...	23·8	-4	NW	1	c-bc	50	92	47	8	5	–	6	Tr	7-8	450	0	1
	Wick ...	23·2	-8	SE	1	c-bc	52	85	47	8	5	3	–	4-6	7-8	2000	0	*
16	Sumburgh ..	23·4	-2	NE'E	2	c-bc	51	65	40	8	5	5	–	7-8	7-8	2500	0	2
17	Blacksod Point	26·0	+2	NW	2	o/d	58	85	54	7	6	–	–	10	10	2500	0	2
18	Malin Head ...	24·1	-2	WNW	1	c	57	85	53	7	5	–	–	10	10	800	0	1
	Aldergrove ...	24·6	+2	WNW	2	2o	56	92	55	6	5	–	–	10	10	600	0	*
19	Birr Castle ...	25·4	+2	N	1	c	55	92	53	7	5	–	–	10	10	1500	0	*
20	Valentia Obsy.	26·2	+2	NW	3	2o	59	85	55	6	5	–	–	10	10	1500	0	2
	Roches Point	24·6	0	N	5	bc	60	85	56	8	5	–	5	1	4-6	2500	0	2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 2nd July Hrs. (38)
1	London (Kew)	76	55	50	–	–	10·8
	Croydon ...	70	54	52	–	–	10·7
	S. Farnborough	79	53	45	*	–	12·6
	Boscombe Down	78	50	46	–	–	12·5
	Thorney Island	75	54	47	–	–	*
	Lympne ..	72	52	45	–	–	13·6
	Manston ...	70	53	43	–	–	10·0
2	Shoeburyness ...	71	52	48	–	–	13
	Felixstowe ...	71	54	53	–	–	13·1
	Gorleston ...	62	53	52	–	–	8·7
	Mildenhall ...	69	53	52	–	Tr	7·6
	Cranwell ...	73	51	48	–	–	8·3
3	Birmingham ...	75	55	47	–	–	11·3
	Upper Heyford	77	53	43	–	–	*
4	Ross-on-Wye	78	49	42	–	–	7·9
5	Hartland Point	68	57	48	–	–	14·9
	Bristol ...	76	52	40	–	–	10·6
	Portland Bill ...	62	51	*	–	–	*
	Plymouth ...	73	57	42	–	–	12·8
	The Lizard ...	70	55	55	–	–	12·8
	Scilly (St. Mary's)	72	56	*	–	–	14·3
	Guernsey ...						
6	Pembroke ...	71	52	*	–	–	13·9
7	Holyhead (Valley)	65	46	37	–	–	*
	Chester (Sealand)	70	47	39	–	–	14·4
8	Manchester ...	73	51	45	–	–	*
10	Spurn Head ...	61	53	*	–	–	6·3
	Catterick (Sc)...	68	41	36	–	–	6·3
	Tynemouth ...	55	50	50	–	–	*
11	St. Abbs Head	54	49	*	–	–	
	Leuchars ...	65	46	39	–	–	13·2
12	Renfrew (Abbotsl.)	77	50	43	–	Tr	10·7
	Eskdalemuir ...	69	42	37	–	–	9·2
	Point of Ayre...	70	53	*	–	–	14·4
13A	Tiree	67	53	53	–	Tr	7·5
13B	Stornoway ...	57	47	39	–	–	6·5
15	Dalwhinnie ...	70	37	31	–	–	12·7
	Aberdeen † ...	62	42	38	–	–	6·2
	Wick ...	57	41	36	Tr	–	
16	Sumburgh ..	57	46	42	–	–	*
17	Blacksod Point	65	56	*	–	–	12·3
18	Malin Head ...	64	53	*	–	–	12·6
	Aldergrove ...	73	51	47	–	–	14·8
19	Birr Castle ...	76	52	49	–	–	12·2
20	Valentia Obsy.	68	55	48	–	Tr	14·3
	Roches Point	69	60	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 2nd July: $C_L C_M$	ww $V_H N_h$	DDFWN	18h. G.M.T.: $C_L C_M$	ww $V_H N_h$	DDFWN	01h. G.M.T. 3rd July: $C_L C_M$	ww $V_H N_h$	DDFWN	07h. G.M.T.: $C_L C_M$	ww $V_H N_h$	DDFWN
109	7-	01853	01303				5-	05743	09213	53	02844	11314
115	52	03735	08568	52	02854	08525	54	02954	08324	55	02954	20225
203	00	03890	04340							--	46209	20343
206	5-	02666	08326	50	01853	08223	5-	02845	00015	5-	02838	00028
210	5-	21635	02358	50	01861	04221	53	01744	12115	03	02890	20127
219	50	05621	28301	00	05790	24300	5-	41418	22248	5-	21628	25158
230	10	05961	20201	00	05690	22200	--	46209	00049	5-	52628	18258
245	70	01752	14302	70	01851	08401	52	43324	26104	5-	41528	06148
260	00	05630	04110	00	05690	06300	5-	05664	05224	53	05674	06224
278	10	05771	30411	00	00890	31300	--	48109	25209	5-	51638	28448
279	10	01861	04321	10	01761	10311	55	05664	10326	54	02761	07225
285	10	01853	14313							13	01861	08214
288	5-	05547	18327	5-	08438	01323	54	05545	32227	5-	05645	31127
575	10	05613	26113	16	05661	26314	5-	05635	00015	5-	05647	28227
301	00	01790	28301	50	05543	08225	50	08442	10102	5-	41445	08145
321	00	05690	01303	00	05690	01310	5-	05648	23754	50	05642	32213
299	5-	05648	32428	5-	05648	32528				80	02745	30515
292	00	05690	30311	10	05663	32303	50	05653	28223	50	05651	27202
310	--	01642	20212							--	05624	24144
614	10	08462	07102	53	05612	01115	5-	05548	02228	5-	08444	32124

III	13h. G.M.T. 2nd July: $C_L C_M$	ww $V_H N_h$	DDFWN	18h. G.M.T.: $C_L C_M$	ww $V_H N_h$	DDFWN	01h. G.M.T. 3rd July: $C_L C_M$	ww $V_H N_h$	DDFWN	07h. G.M.T.: $C_L C_M$	ww $V_H N_h$	DDFWN
388	10	01741	28301	00	17890	30302	00	00790	30200	00	05630	00000
334	--	01662	02214							--	04409	00028
340	10	05663	32213	00	01790	30301	00	05590	32100	5-	41544	22147
136	7-	02756	30326	5-	05647	03327	5-	51638	32458	5-	02847	30427
336				00	00790	28300				50	01752	28312
850	10	05653	28313	00	05690	05201	5-	08438	04128	5-	05638	30128
368	08	05530	18113	70	05664	24214	50	01651	00001	00	05530	16100
379	10	01763	04300	50	05553	31213	00	05590	32200	--	44109	32259
390	00	05690	32320	00	05690	32313	5-	05638	32318	5-	05648	30328
382	10	01763	01203	57	05664	30114	00	05690	00000	5-	05628	00028
438				10	05661	23201	00	00690	30310	5-	03438	02228
430	00	00790	03300	10	01761	17101	00	05630	00000			
409	10	01952	06302	00	00890	03310	00	05690	02100	00	05630	31100

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 3rd July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather: Morning	Weather: Afternoon	Weather: Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	cbc2oby	bcc,by	cm2o	Kew 2. hrs ended Mar 19 20h
Croydon ...	b	by	bm cm	
Greenwich ...	cby	by	bycb2o	
Camden Square	bc	o	*	
Kensington ...	b	bc	*	
Hampstead ...	bc	b	bc	

Min. Read of Period. 10·1

Stations.	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 % (Yesterday)	Humidity: 9h % (Today)
Kew ...	76	55	50	–	–	10·8	*	*
Croydon ...	70	54	52	–	–	10·7	*	*
Greenwich ...	77	54	49	–	–	10·7	35	64
Westminster ...	78	56	54	–	–		46	69
Regents Park ...	79	55	53	–	–		52	67
Camden Square	79	55	51	–	–	*	*	66
Kensington ...	78	55	51	–	–		40	63
Hampstead ...	75	52	49	–	–		*	67

SECRET

Page 1

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Sunday 4th July 1943

No. 29209

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	22·6	-6	N	2	c-bc	72	35	42	7	-	-	4	0	7-8	-
	Croydon ...	22·9	-6	-	0	bc	72	35	44	7	-	-	4	0	4-6	-
	S. Farnborough	22·6	-10	NW	2	⊗	71	45	53	6	5	1	5	2-3	7-8	2000
	Boscombe Down	22·5	-10	NW	1	b-bc	71	55	55	7	1	-	1	Tr	2-3	2500
	Thorney Island	23·0	-4	SW'S	2	⊗	67	75	58	6	5	-	-	4-6	4-6	1500
	Lympne ...	22·8	-4	SE	3	b	63	65	50	8	-	-	1	0	1	-
	Manston ...	23·6	+4	W'S	1	b-bc	65	55	48	8	-	-	1	0	2-3	-
	Shoeburyness ...	22·9	-4	SE	2	b-bc	65	65	51	8	-	-	6	0	2-3	-
	Felixstowe ...	22·7	-2	ESE	3	bc	67	63	57	8	-	-	2	0	4-6	-
	Gorleston ...	22·3	+2	NNW	1	bc	60	65	48	7	2	-	4	4-6	4-6	3000
	Mildenhall ...	22·7	-6	NW'N	2	bc	67	55	49	8	-	-	6	0	4-6	-
	Cranwell ...	22·4	-10	W'S	1	bc	71	45	44	7	-	-	2	0	4-6	-
3	Birmingham ...	22·8	-2	N	2	b-bc	73	35	44	7	1	-	5	1	2-3	-
	Upper Heyford	22·4	-10	NNW	2	⊗	72	35	42	6	-	-	2	0	2-3	-
4	Ross-on-Wye	22·6	-10	NW	3	b	74	55	85	7	1	-	1	Tr	1	3500
5	Hartland Point	23·6	0	WNW	2	b	67	75	57	7	-	-	8	0	1	-
	Bristol ...	23·1	-6	SE	1	⊗	75	55	59	6	-	-	1	0	1	-
	Portland Bill ...	23·8	+4	SE	2	c-bc	62	85	59	7	5	-	-	7-8	7-8	4000
	Plymouth ...	23·7	-2	SSW	3	b	72	65	61	8	1	-	1	1	1	4000
	The Lizard ...	24·0	0	NW	2	bc	68	75	61	7	7	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	25·3	+6	N'W	2	b	69	75	61	6	-	-	3	0	1	-
	Guernsey ...															
6	Pembroke ...	23·9	0	NW	2	b-bc	65	85	60	6	1	7	-	2-3	2-3	3500
7	Holyhead (Valley)	24·5	+4	NW	2	⊗	62	75	55	6	5	-	4	1	4-6	800
	Chester (Sealand)	22·7	0	N	3	⊗	71	65	57	6	-	-	6	0	7-8	-
8	Manchester ...	22·0	-10	WNW	3	⊗	71	65	59	6	-	5	1	0	4-6	-
10	Spurn Head ...	23·5	0	NE	1	bc	61	65	51	7	7	3	-	2-3	4-6	4000
	Catterick (Sc)...	22·2	-16	-	0	bc	72	45	46	7	-	-	6	0	4-6	-
	Tynemouth ...	24·1	-2	SE	3	bc	60	65	49	7	-	7	-	0	4-6	-
11	St. Abbs Head	20·9	-22	SE	3	c	57	85	51	7	5	4	-	4-6	9	3000
	Leuchars ...	20·8	-20	SSW	1	c	69	45	60	7	5	-	7	2-3	9	3500
12	Renfrew (Abbotsl.)	21·9	-4	WSW	3	c	67	65	56	7	5	-	2	4-6	9+	2500
	Eskdalemuir ...	21·2	-2	SW	3	⊗	66	75	58	6	5	-	-	9+	9+	1100
	Point of Ayre...	23·9	+2	NW	3	c	65	75	57	7	5	-	-	9+	9+	4000
13A	Tiree	23·4	-2	W	1	⊗	57	92	55	5	5	-	-	10	10	400
13B	Stornoway ...	20·9	-6	W	3	c	58	85	53	7	5	-	-	10	10	800
15	Dalwhinnie ...	21·0	-4	SSW	2	c-bc	68	65	56	7	1	-	6	1	7-8	4000
	Aberdeen ...	21·8	-10	SE	2	c	56	75	49	7	5	5	9	9	10	1500
	Wick ...	21·3	-8	SE	3	c-bc	55	85	50	8	5	4	9	0	7-8	-
16	Sumburgh ...	22·1	-6	E	1	bc	55	75	45	8	5	5	-	Tr	4-6	2500
17	Blacksod Point	25·6	-2	SW	1	c	69	75	56	7	5	-	-	10	10	2500
18	Malin Head ...	23·9	-2	W'N	3	⊗	57	92	55	6	-	2	-	10	10	800
	Aldergrove ...	23·7	-6	W	2	⊗	64	75	55	6	5	1	-	7-8	10	1000
19	Birr Castle ...	25·1	-2	N:W	2	c	62	75	54	8	5	2	-	7-8	10	2500
20	Valentia Obsy.	26·4	-2	NW	4	⊗	64	75	56	6	5	-	-	9+	9+	2500
	Roches Point	25·4	+2	N	4	bc	69	75	61	8	5	-	-	4-6	4-6	2500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	21·4	-4	NW	2	b-bc	77	25	37	7	-	-	2	0	2-3	-	0	*
	Croydon ...	21·6	-6	NW	1	b-bc	76	28	36	8	-	-	2	0	2-3	-	0	*
	S. Farnborough	21·2	-6	N	1	⊗	76	33	43	6	-	-	8	0	Tr	-	0	*
	Boscombe Down	21·5	-2	NW'N	1	bc	77	36	49	7	1	-	1	Tr	4-6	2500	0	*
	Thorney Island	21·6	-8	W	2	⊗	66	85	61	6	-	-	-	0	0	-	0	*
	Lympne ...	22·1	-8	SE'S	3	b	61	75	54	8	-	-	1	0	1	-	0	*
	Manston ...	22·2	+2	SE	2	b	60	75	52	8	-	-	1	0	1	-	0	*
	Shoeburyness ...	22·2	-2	E	3	bc	64	75	55	8	-	-	6	0	4-6	-	0	*
	Felixstowe ...	22·4	-6	E	2	bc	61	85	56	8	-	-	4	0	4-6	-	0	1
	Gorleston ...	22·1	0	N'E	3	bc	61	75	53	7	5	-	4	1	4-6	2500	0	3
	Mildenhall ...	21·5	-8	N	2	bc	71	35	44	9	-	4	2	0	4-6	-	0	*
	Cranwell ...	20·8	-10	SE'S	3	c	68	65	57	8	-	-	2	0	9	-	0	*
3	Birmingham ...	21·0	-8	NNW	3	c	73	45	51	7	1	-	6	1	9	4000	0	*
	Upper Heyford	20·9	-8	N	1	⊗	76	35	49	6	-	-	2	0	2-3	-	0	*
4	Ross-on-Wye	21·0	-10	N	2	c-bc	77	45	51	8	4	-	6	Tr	7-8	3500	0	*
5	Hartland Point	22·5	-10	WSW	3	b	66	85	61	6	-	-	1	0	Tr	-	0	2
	Bristol ...	21·6	-6	W	3	bc	74	55	58	7	-	-	2	0	4-6	-	0	*
	Portland Bill ...	22·3	-6	S	2	c-bc	60	85	56	8	5	-	-	7-8	7-8	4000	1	3
	Plymouth ...	23·1	-2	NNW	2	b	73	55	56	8	-	-	4	0	1	-	0	1
	The Lizard ...	23·5	-6	W	3	bc	69	65	57	8	7	3	-	2-3	4-6	4000	0	2
	Scilly (St. Mary's)	24·5	-6	N'W	3	b	67	85	61	6	-	-	3	0	1	-	0	2
	Guernsey ...																	
6	Pembroke ...	23·2	+16	NNW	1	⊗	67	75	57	6	-	7	-	0	4-6	-	0	1
7	Holyhead (Valley)	23·3	-6	-	0	⊗	64	75	57	6	-	-	7	0	9+	-	0	1
	Chester (Sealand)	22·4	-2	NNW	1	c	61	85	57	6	5	2	-	7-8	10	2500	0	*
8	Manchester ...	21·5	-4	NW	1	c-bc	67	65	57	7	1	1	2	Tr	7-8	4000	0	*
10	Spurn Head ...	22·3	-4	SE	3	bc	57	75	48	7	7	3	-	4-6	4-6	4000	0	3
	Catterick (Sc)...	20·4	-2	WSW	2	⊗	72	65	59	6	5	7	-	4-6	10	2000	0	*
	Tynemouth ...	21·7	-6	SE	3	c	56	85	52	7	-	7	-	0	9+	-	0	
11	St. Abbs Head	19·5	-4	SSE	3	c	54	92	52	7	5	2	-	7-8	10	4100	0	3
	Leuchars ...	18·9	-10	SW	2	⊗	67	65	57	6	-	7	-	0	10	-	0	*
12	Renfrew (Abbotsl.)	20·8	-8	W	3	c	61	75	54	7	5	7	-	7-8	10	2000	0	*
	Eskdalemuir ...	20·0	-6	WNW	2	c	60	75	52	8	5	1	-	4-6	10	1800	0	*
	Point of Ayre...	22·6	-12	NW'W	3	c	61	85	56	7	5	3	2	4-6	9+	4000	0	3
13A	Tiree	21·7	-16	WSW	1	⊗	53	97	52	6	9	3	-	10	10	300	1	0
13B	Stornoway ...	19·9	-8	SW	2	c	58	85	53	8	5	2	-	7-8	10	1500	0	1
15	Dalwhinnie ...	19·8	-2	W	1	c	59	75	50	7	5	6	-	4-6	9+	2500	0	
	Aberdeen ...	20·0	-8	S	2	c	54	75	48	7	5	7	-	Tr	10	800	0	1
	Wick ...	20·1	-6	SSE	2	c	53	85	49	8	5	7	-	4-6	10	2000	0	
16	Sumburgh ...	20·0	-6	SSE	2	c	53	75	46	8	5	8	6	9	10	2500	0	2
17	Blacksod Point	24·0	-6	WSW	2	c	62	75	54	7	5	-	-	9+	9+	2500	0	2
18	Malin Head ...	22·5	-10	WN,W	3	c	59	85	55	7	5	-	-	9+	9+	1500	1	2
	Aldergrove ...	23·0	-8	NWW	2	⊗	59	92	57	5	5	2	-	9	10	1000	1	*
19	Birr Castle ...	23·6	-14	SSE	1	c-bc	66	75	58	8	4	-	8	4-6	7-8	1500	0	*
20	Valentia Obsy.	25·3	-6	NW'W	3	c	63	75	55	6	1	7	-	Tr	9	2500	0	2
	Roches Point	24·3	-8	W'S	3	c	65	85	61	8	5	-	-	9	9	1500	0	3

PAST 24 HOURS.

Weather. 7h.—13h. 3rd (39)	13h.—18h. 3rd (40)	18h. 3rd ... to 1h. 4th (41)	1h.—7h. 4th (42)
cbc ⊗ bc	⊗ bbc cy	bccy	cbccw
bz ⊗ bzy	bcy	bcbmw	bwofc₀
om₀ bcc ⊗	cbcbzy	bbcyzobc₀	bcc₀e
am₀ bcy	bbc	bcybcyzobc₀	bm₀bcmc₀
cmycm₀	bcmbm₀	bfgbf	bffcm
cbcb	bcb	bcbbw	bwbcc
cm₀ ⊗ bcb	bbcyb	bcbc₀	bcmbccm₀
cbcybc	bc	ccw	cwcz₀
bc bbc	cbbbc	bccbc	bccmbc₀
bc	bc	bcb	cz₀
cbcbcy	bcy	bc	bcbm₀ m₀
bcmbcy	bcybcc	cbc	bcz₀
bczb	bc	c	cbc
mmbcz₀	bcz ⊗	cbczybm₀	bm₀ c m₀
cfc mbz₀	bcy	cyc z₀	bwcbc
b	b	bbc	bc
bm₀ bcm₀ cz₀	bzybcybcybcm₀ bm₀	bm₀ bcm₀ fgc₀	
cc	cc	cbc	c
bbc	bcby	bcm₀	cm₀
bbc	bc	bcw	bcffc
b	b	bffw,c	cbc
bcmz ⊗	bczcbc	bcm₀w	cm₀o
bcfjfm₀	bccm₀	cm₀cbm₀	cm₀
bbcm₀ ⊗	bbcmzcc	cm₀	cm
cm₀ cbz ⊗	bcc ⊗ bcyc	cm₀	cm₀m
bc	bc	cc	cm₀
cm₀ bc-cy	cy ⊗	czcm₀	c
bc	c	cmc	c
cbcc	e	c	cm₀
c	c ⊗ c	c	ccrrm₀
cbcc	c	cc ir₀ cm₀	cr₀r₀m₀
cbc	c	cr₀r₀	cr₀r₀m₀
c	c	c	d
d	d	r	r
cm₀	cm₀ir₀cm₀	cm₀ir₀cm₀	cm₀ir₀cm₀
c	c	c	c
bc	bc	c	c
c	c	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 4th July 1943

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
13A	W. Scotland ...
13B	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 west to northwest winds; fair at first; local rain tonight, becoming fine; rather warm, becoming somewhat cooler.

Moderate west to northwest winds; fair, a few light showers tomorrow; rather warm, becoming cooler.

As 1–4

Moderate or fresh west to northwest winds; cloudy, with local rain at first; variable cloud and a few showers in West later, but mainly fine in East; rather cool.

Fresh or strong northwest winds; variable cloud and showers; rather cool.

Light southwesterly winds, veering northwest and freshening; rain at first; variable cloud and showers later; rather cool.

Moderate or fresh west to northwest winds; variable cloud and local rain or showers; rather cool.

GENERAL INFERENCE

Pressure is high to the Southwest of the British Isles; a depression northwest of the Faeroes is moving East-southeast and associated troughs are moving Southeast across the British Isles; there will be occasional rain in the North and local rain in the South; showery conditions will spread across northwestern districts.

FURTHER OUTLOOK

A few showers in northwestern districts; fair elsewhere.

Forecasts issued at 10·30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Sunday, 4th July 1943.

LOW

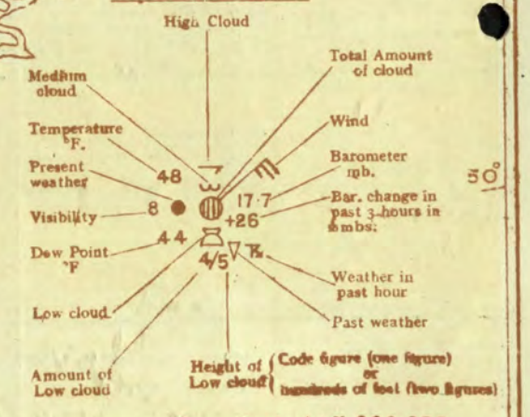
HIGH

1008 1010 1012 1014 1016 1018 1020 1022

10° 5°W. 0° 5°E 10°

60° 55° 50°

STATION MODEL



Scale 1: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of
Sunday 4th July
1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 4th July 1943

No 23809

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	60	*	*	*	*	*	*	*	*	*
	Croydon ...	290	22·2	-4	SW	2	m	57	97	57	4	-	-	-	0	0	-
	S. Farnborough	226	21·8	+4	-	0	Zo	58	92	56	6	5	-	2	2-3	4-6	2000
	Boscombe Down	417	22·1	-2	-	0	Zo	57	85	54	6	-	-	2	0	1	-
	Thorney Island	10	22·1	+4	-	0	bF	55	97	55	1	-	-	1	0	Tr	-
	Lympne ..	283	22·8	-4	W	1	b	53	97	52	7	-	-	-	0	0	-
	Manston ...	154	22·3	-4	S	1	m	53	97	52	4	-	-	8	0	2-3	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	21·4	-10	SSW	3	bc	61	85	54	8	-	-	8	0	4-6	-
	Gorleston ...	5	21·3	-8	SW	2	b	53	92	51	7	-	-	-	0	0	-
	Mildenhall ...	15	20·5	-10	SE	2	Zo	57	85	53	6	-	-	8	0	2-3	-
	Cranwell ...	203	20·1	-10	W	3	bc	61	85	56	7	5	7	-	2-3	4-6	3500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·4	0	S	1	Zo	59	85	54	6	-	-	1	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23·2	-2	WNW	2	Zo	59	97	58	6	-	-	1	0	Tr	-
	Bristol ...	209	22·2	-2	W	2	Zo	60	92	58	6	-	4	2	0	1	-
	Portland Bill ...	32	22·3	-6	-	0	bc	58	92	56	7	5	-	-	4-6	4-6	4000
	Plymouth ...	86	23·8	0	WNW	2	Zo	60	92	59	6	-	-	2	0	4-6	-
	The Lizard ...	240	24·4	+4	NNW	2	b-bc	57	97	57	7	4	-	-	2-3	2-3	3000
	Scilly (St. Mary's)	163	25·0	+2	NNW	2	Zo	58	97	58	6	5	-	-	9+	9+	800
	Guernsey ...	175															
6	Pembroke ...	142	24·0	0	NW	1	b-bc	58	97	57	7	-	7	-	0	2-3	-
7	Holyhead (Valley)	32	22·5	-10	-	0	m	53	97	55	4	-	4	-	0	1	-
	Chester (Sealand)	16	21·7	-6	-	0	c-bc	57	92	55	4	5	2	-	7-8	7-8	1800
8	Manchester ...	230	21·4	-6	SW	2	Zo	56	92	54	6	5	-	2	1	7-8	1500
10	Spurn Head ...	29	19·9	-16	SWS	2	c	58	85	51	7	7	7	-	7-8	10	1500
	Catterick (Sc.)...	192	20·0	-6	WNW	1	Zo	59	85	54	6	5	7	-	4-6	9	2500
	Tynemouth ...	108	19·8	-8	W	3	c-bc	60	75	53	7	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	16·8	-12	W	4	c	57	92	55	7	5	-	-	10	10	4000
	Leuchars ...	36	17·0	-14	WSW	2	Zo	57	85	52	6	5	7	-	2-3	10	3000
12	Renfrew (Abbotsl.)	19	18·8	-14	WSW	3	Zo	57	85	53	6	5	2	-	7-8	10	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	20·8	-12	W	1	Zo	56	97	55	6	5	-	-	9+	9+	3000
13A	Tiree	44	18·2	-22	S	2	ir	56	92	54	6	5	2	-	9	10	800
13B	Stornoway ...	12	15·7	-8	SSE	3	ro6	55	97	54	7	5	-	-	10	10	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	16·3	-16	-	0	c	52	92	50	8	5	2	-	4-6	10	2500
	Wick ...	114	15·9	-22	-	0	Zo	53	92	50	6	5	-	-	10	10	2000
16	Sumburgh ..	19	15·4	-24	SW	3	ir	51	97	51	7	-	2	-	10	10	500
17	Blacksod Point	18	21·5	-14	SWS	2	c	60	85	55	7	5	-	-	10	10	2500
18	Malin Head ...	84	19·3	-18	WS	2	ir	57	85	53	7	5	-	-	10	10	1500
	Aldergrove ...	268	20·8	-14	W	3	Zo	58	85	53	6	5	2	-	9+	10	3500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	24·5	-6	NW	3	c	60	75	52	7	5	-	-	9+	9+	1500
	Roches Point	22	23·6	-4	N	3	c	63	85	58	8	5	-	-	9	9	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	20·8	-2	NSW	2	Zo	62	85	56	6	1	3	2	Tr	3	2500	0	*
	Croydon ...	21·5	+2	NW'N	1	Zo	62	75	56	6	-	-	3	0	3	-	0	*
	S. Farnborough	20·7	-6	NW'N	1	Zo	62	85	57	6	-	-	6	0	9	-	0	*
	Boscombe Down	21·4	-2	NW'N	2	Zo	60	92	57	6	-	7	6	0	9	-	0	*
	Thorney Island	21·1	-2	W'N	1	Zo	60	97	60	6	-	-	1	0	1	-	0	*
	Lympne ..	21·0	-8	WSW	2	c-bc	59	85	56	7	-	-	2	0	7-8	-	0	1
	Manston ...	20·5	-6	SW'N	3	Zo	62	75	53	5	-	-	2	0	9	-	0	*
2	Shoeburyness ...	20·6	-4	N	3	Zo	60	85	58	5	-	5	6	0	9	-	0	*
	Felixstowe ...	20·0	-4	N	2	Zo	59	92	57	5	-	-	2	0	4-6	-	0	2
	Gorleston ...	19·2	-8	WNW	2	Zo	59	85	53	6	5	7	-	2-3	7-8	1500	0	3
	Mildenhall ...	19·8	-2	WS	2	fg	59	85	55	5	-	3	2	0	4-6	-	0	*
	Cranwell ...	19·2	-2	WS	3	Zo	60	85	55	6	-	7	2	0	4-6	-	0	*
3	Birmingham ...	20·4	-8	NSW	3	bc	59	85	55	7	-	4	2	0	4-6	-	0	*
	Upper Heyford	20·3	-4	W'N	2	Zo	61	85	55	6	5	-	8	2-3	7-8	5000	0	*
4	Ross-on-Wye	21·5	-4	SW	2	Zo	58	85	54	6	-	4	2	0	2-3	-	0	*
5	Hartland Point	22·1	0	W	2	c	61	97	58	6	5	-	6	7-8	9+	1100	0	2
	Bristol ...	22·2	+4	W'N	2	Zo	59	92	57	6	-	-	9	0	4-6	-	0	*
	Portland Bill ...	21·7	-2	W	2	c	59	92	57	7	5	-	-	10	10	2500	1	2
	Plymouth ...	23·6	+2	W	1	Zo	60	97	59	6	5	-	8	2-3	7-8	1500	0	1
	The Lizard ...	23·7	-2	W	3	c	59	97	59	6	5	-	-	9+	9+	1000	0	2
	Scilly (St. Mary's)	24·0	-4	NW'N	4	bc	59	92	56	7	5	-	2	2-3	4-6	1400	0	2
	Guernsey ...																	
6	Pembroke ...	22·0	-8	W	3	c	59	97	53	3	5	-	-	10	10	1500	0	1
7	Holyhead (Valley)	20·3	-10	NSW	1	Zo	58	92	56	6	-	3	-	0	9	-	0	1
	Chester (Sealand)	19·3	-8	-	0	c	61	85	55	6	5	7	-	4-6	10	2600	0	*
8	Manchester ...	19·6	-6	SW'N	3	Zo	59	92	56	5	5	7	-	4-6	10	1000	0	*
10	Spurn Head ...	18·5	-4	WS	4	Zo	60	85	54	6	7	3	-	4-6	7-8	2500	0	3
	Catterick (Sc.)...	17·5	-6	S	1	c	59	85	53	7	5	7	-	4-6	10	3500	0	*
	Tynemouth ...	18·0	-4	W	3	c	59	75	50	7	8	-	-	9+	9+	2000	0	3
11	St. Abbs Head	14·4	-12	W	4	ir	56	92	53	7	5	-	-	7-8	10	3000	0	3
	Leuchars ...	14·1	-14	SW	3	c/r	57	92	54	6	5	7	7	4-6	10	4000	1	*
12	Renfrew (Abbotsl.)	15·5	-14	WSW	3	c/r	57	85	54	7	5	2	-	4-6	9+	800	1	*
	Eskdalemuir ...	16·8	-6	SW	2	Zo	54	92	51	6	5	2	-	9	10	1400	0	*
	Point of Ayre...	18·5	-10	W'N	4	c	58	85	54	8	5	7	-	7-8	10	5000	0	2
13A	Tiree	15·0	-12	WSW	3	id.	56	92	54	6	5	7	-	7-8	9+	1000	1	2
13B	Stornoway ...	10·8	-18	WSW	4	do.	55	97	54	6	6	2	-	9	10	600	1	2
15	Dalwhinnie ...	13·5	-20	W	3	pr	53	85	49	7	5	-	-	9+	9+	1500	1	*
	Aberdeen † ...	13·1	-18	SSW	1	ro	56	97	54	6	6	7	-	2-3	10	1100	1	2
	Wick ...	12·5	-26	SSE	1	ro	54	97	53	5	5	2	-	7-8	10	600	1	*
16	Sumburgh ..	11·6	-16	SW	1	ro	52	97	52	6	6	7	-	4-6	10	300	1	3
17	Blacksod Point	19·3	-6	WSW	4	c	59	92	57	7	6	-	-	9+	9+	1500	0	3
18	Malin Head ...	16·4	-14	W'N	3	do.	56	85	51	6	5	-	-	10	10	1500	1	2
	Aldergrove ...	18·6	-10	W'S	3	c	58	85	55	6	5	7	-	7-8	9+	1800	1	*
19	Birr Castle ...	21·1	-6	SSW	2	c	59	85	54	8	5	7	-	7-8	9+	2500	0	*
20	Valentia Obsy.	23·0	-4	WSW	3	c	60	85	55	8	7	-	-	9	9	4000	0	2
	Roches Point	22·6	0	W'N	2	c	60	85	55	8	5	-	-	9	9	2500	1	2

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 3rd ... Hrs. (38)
1	London (Kew)	77	58	46	-	-	9·8
	Croydon ...	78	57	55	-	-	10·1
	S. Farnborough	78	55	44	-	-	8·6
	Boscombe Down	78	54	46	-	-	8·6
	Thorney Island	71	51	48	-	-	*
	Lympne ..	67	52	47	-	-	9·6
	Manston ...	70	52	47	-	-	10·7
2	Shoeburyness ...	70	56	47	-	-	11
	Felixstowe ...	72	56	51	-	-	12·3
	Gorleston ...	63	53	48	-	-	11·4
	Mildenhall ...	72	53	49	-	-	10·9
	Cranwell ...	75	55	53	-	-	11·0
3	Birmingham ...	78	55	48	-	-	7·6
	Upper Heyford	76	54	45	-	-	*
4	Ross-on-Wye	78	54	47	-	-	8·1
5	Hartland Point	63	58	56	-	-	14·2
	Bristol ...	78	55	52	-	-	13·1
	Portland Bill ...	57	56	*	-	-	*
	Plymouth ...	77	57	45	-	-	13·7
	The Lizard ...	72	56	*	-	-	13·9
	Scilly (St. Mary's)	71	57	*	-	-	13·6
	Guernsey ...						
6	Pembroke ...	67	55	*	-	-	13·0
7	Holyhead (Valley)	65	54	46	-	-	*
	Chester (Sealand)	71	54	46	-	-	9·3
8	Manchester ...	73	55	49	-	-	*
10	Spurn Head ...	62	57	*	-	-	11·2
	Catterick (Sc.)...	76	55	53	-	-	7·7
	Tynemouth ...	63	56	55	-	-	*
11	St. Abbs Head	60	54	*	-	Tr	
	Leuchars ...	73	56	53	-	0·6	6·1
12	Renfrew (Abbotsl.)	67	55	55	-	0·6	4·4
	Eskdalemuir ...	69	53	50	-	-	4·1
	Point of Ayre...	66	54	*	-	-	5·3
13A	Tiree	58	54	51	Tr	3	0·0
13B	Stornoway ...	59	53	52	-	3	0·0
15	Dalwhinnie ...	69	51	48	-	3	6·0
	Aberdeen † ...	58	52	47	-	2	6·9
	Wick ...	57	52	51	-	3	*
16	Sumburgh ..	55	50	49	-	3	7·7
17	Blacksod Point	65	57	*	-	Tr	
18	Malin Head ...	60	54	*	0·1	1	0·0
	Aldergrove ...	65	55	54	Tr	0·2	0·1
19	Birr Castle ...	68	56	54	-	-	1·0
20	Valentia Obsy.	66	57	51	-	Tr	4·0
	Roches Point	71	60	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 3rd July ... 18h. G.M.T. C_L C_M	wwVhN$_h$	DDFWN	01h. G.M.T. 4th July ... 07h. G.M.T. C_L C_M	wwVhN$_h$	DDFWN
109	73	02853	13316	52	02745	17328
115	--	46109	12228	--	67109	203 9
203	--	22152	51635	--	22152	52635
206	5-	02864	08226	51	02864	10228
210	00	02790	03225	03	02790	30128
219	5-	05638	23358	5-	52838	22358
280	5-	02748	20258	5-	51658	20158
245	50	05644	13327	5-	02748	09228
260	50	05654	20224	59	05654	20328
278	57	02254	28427	5-	51638	28428
279	77	02863	22335	51	02863	28227
285	23	02755	22316			
288	00	05530	06217	56	17464	01228
575	52	05645	28358	57	02754	26224
301	00	05690	26315	50	05654	30328
321	00	01790	02114	00	02799	02790
298	44	01752	30315	54	01752	06214
292	50	02761	25115	51	02834	12228
310						
614	00	05690	04114	50	05664	28214

III	13h. G.M.T. 3rd July ... 18h. G.M.T. C_L C_M	wwVhN$_h$	DDFWN	01h. G.M.T. 4th July ... 07h. G.M.T. C_L C_M	wwVhN$_h$	DDFWN
388	50	05623	28415	5-	05665	28327
334						
340	10	01662	30114	07	02790	28316
136	00	01890	30315	09	02890	04127
336	10	01764	04314	53	01752	28313
350	00	01790	32213	00	02790	00015
368	00	05530	20210	00	05590	26213
379	10	05552	02102	10	05661	24203
390	00	01790	28215	00	01790	32314
382	00	05690		00	01790	00013
438	-					
430	50	05543	23223	00	05590	20210
409	50	09612	25203	50	05625	30315

III	01h. G.M.T. 4th July ... 07h. G.M.T. C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
388	50	05663	00013	53	05664	28115
334						
340	57	05652	30113	5-	05658	22128
136	00	02790	18228	5-	05668	24428
336						
350	00	05690	24113	57	05664	24226
368	50	05553	29113	53	08463	29214
379	07	05690	28311	07	05590	28224
390	00	05593	14113	00	08490	24145
382	00	05590	00013			
438	50	05553	24813	54	05663	22415
430	00	45030	00040	00	08490	22244
409	00	04520	27243	5-	05628	24428

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 4th July

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

Stations	Weather. Morning	Weather. Afternoon	Weather. Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	dbc2obc	c, bbcy	dbccw	Kew 24 h ended 7 Max. Time
Croydon ...	bzobzoy	bcy	bwofcmo	To-t whole of Period.
Greenwich ...	by	bobbcy	bcw	Min. Time
Camden Square	bc	b	*	
Kensington ...	bc	bc	*	
Hampstead ...	bc	bc	bc	

Stations.	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 % (Yesterday)	Humidity. 9h % (To-day)
Kew ...	77	58	46	-	-	9·8	*	*
Croydon ...	78	57	55	-	-	10·1	*	*
Greenwich ...	79	56	41	-	-	10·9	24	61
Westminster ...	79	59	54	-			40	69
Regents Park ...								
Camden Square	80	58	*	-	-	*	*	64
Kensington ...	80	58	48	-	-		32	65
Hampstead ...	77	56	52	-	-		*	67

SECRET

Page 1

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Monday 5th July 1943

No. 29810

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	19·5	-4	WNW	3	c-bc	73	48	50	7	8	7	2	4-6	7-8	2500
	Croydon ...	19·9	+0	WSW	2	c	75	45	51	8	4	-	6	4-6	9+	3000
	S. Farnborough	19·3	-6	W'N	2	bc	76	45	53	7	1	-	4	2-3	4-6	3500
	Boscombe Down	20·2	-6	NW'W	4	c-bc	72	55	53	7	1	-	1	7-8	7-8	2500
	Thorney Island	20·0	-6	W'N	4	bc	77	55	57	8	2	-	1	2-3	4-6	3500
	Lympne ...	19·0	-10	SW	4	c	74	65	60	6	1	-	7	4-6	10	2500
	Manston ...	19·2	-8	NW	2	z₀	75	55	58	5	-	-	7	0	10	-
2	Shoeburyness ...	19·2	-4	WSW	2	z₀	76	45	56	6	1	2	2	4-6	9	1500
	Felixstowe ...	18·6	-6	NW'W	4	c	76	55	58	7	7	3	1	4-6	9	4000
	Gorleston ...	17·9	-4	WNW	3	c	72	45	51	7	8	-	-	9+	9+	1400
	Mildenhall ...	18·3	-8	W	4	c	72	45	52	8	2	3	1	4-6	9	4000
	Cranwell ...	17·8	-10	NW	3	c	67	65	55	7	5	7	-	7-8	9+	2000
3	Birmingham ...	19·2	-4	WNW	4	c	68	55	51	7	8	7	-	4-6	9	7200
	Upper Heyford	19·0	-6	WNW	3	c-bc	70	55	53	7	7	3	9	4-6	7-8	3500
4	Ross-on-Wye	19·8	-6	WSW	3	c	69	65	54	7	5	7	-	9	9+	3000
5	Hartland Point	21·8	+4	WNW	3	c	62	75	55	6	2	6	-	2-3	9+	1500
	Bristol ...	20·8	+6	W	4	bc	71	75	61	7	2	-	-	4-6	4-6	2600
	Portland Bill ...	22·3	0	W'N	2	c	63	75	58	8	5	-	-	9	9	5700
	Plymouth ...	22·8	-4	SW	3	c	66	75	59	7	5	-	-	9	9	2000
	The Lizard ...	23·4	0	W	3	bc	66	75	57	7	7	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	24·2	0	WNW	3	c	68	65	54	7	5	-	-	9+	9+	1400
	Guernsey ...															
6	Pembroke ...	21·8	-4	WNW	3	c-bc	63	85	58	7	2	7	-	2-3	7-8	3000
7	Holyhead (Valley)	20·2	-2	SW	3	z₀	60	85	55	6	5	7	-	2-3	9+	3500
	Chester (Sealand)	18·6	-4	NW	4	c	66	55	51	7	7	7	2	2-3	9+	3000
8	Manchester ...	18·8	0	W	4	z₀	64	75	53	6	5	3	-	7-8	9+	1500
10	Spurn Head ...	17·8	-8	WNW	4	z₀	64	65	53	6	5	2	-	4-6	10	2500
	Catterick (Sc)...	16·4	-8	SSW	3	c-bc	70	45	50	7	5	2	-	4-6	7-8	1500
	Tynemouth ...	15·7	-8	W	4	bc	66	55	53	7	1	-	-	4-6	4-6	2000
11	St. Abbs Head	11·9	-14	W	5	c	62	75	55	8	2	6	-	4-6	9	3000
	Leuchars ...	12·0	-10	WSW	4	c-bc	60	65	52	9	8	7	-	4-6	7-8	2000
12	Renfrew (Abbotsl.)	13·7	-6	W'N	5	c-bc	65	75	55	8	8	6	-	4-6	7-8	1600
	Eskdalemuir ...	13·0	-6	WSW	4	o/d	59	85	53	6	5	-	-	10	10	1200
	Point of Ayre...	17·1	-8	W'N	5	c	67	65	56	8	5	-	-	9+	9+	5000
13A	Tiree	15·6	+10	WNW	4	bc	60	75	53	9	8	6	-	4-6	4-6	2500
13B	Stornoway ...	12·3	+18	WNW	4	c-bc	59	75	49	8	8	6	9	7-8	7-8	1500
15	Dalwhinnie ...	12·0	-4	SW	3	pr	57	85	52	7	5	-	-	7-8	7-8	1500
	Aberdeen ...	10·1	-14	WSW	2	bc	68	65	54	9	2	4	-	4-6	4-6	3500
	Wick ...	09·6	-10	WNW	3	c/pr	59	85	54	9	8	-	-	9	9	2500
16	Sumburgh ...	07·8	-18	SSE	3	rr	52	97	52	6	6	2	-	4-6	10	300
17	Blacksod Point	21·6	+10	NW	4	o	59	75	51	8	8	-	-	9+	9+	2500
18	Malin Head ...	17·1	+10	NW	5	c/pr	60	85	56	8	8	-	-	9+	9+	1500
	Aldergrove ...	17·6	-2	W'N	4	c-bc	64	88	58	9	3	3	-	7-8	7-8	2000
19	Birr Castle ...	20·2	-6	WSW	3	o	68	65	56	8	8	1	-	7-8	9+	1500
20	Valentia Obsy.	23·4	+2	NW'W	4	c	62	75	54	8	5	-	-	9+	9+	2500
	Roches Point	21·5	-8	NNW	3	c	68	75	60	8	8	-	5	4-6	9	2500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
17·8	-12	WSW	2	c	73	55	54	7	5	-	-	9+	9+	2500	0	*
18·4	-10	WNW	3	c	73	45	52	7	4	3	-	2-3	9+	3000	0	*
17·9	-10	WNW	3	c	74	45	51	8	1	5	-	1	9	4000	0	*
19·4	-6	WNW	3	c	69	55	53	7	1	5	-	1	9+	4000	0	*
18·4	-10	SW'W	4	b-bc	69	65	56	7	1	3	-	2-3	2-3	4000	0	*
17·4	-18	W	2	c-bc	75	35	45	7	1	3	1	4-6	7-8	3000	0	5
17·1	-14	NNW	2	z₀	71	65	57	6	-	5	8	0	9	-	0	*
17·3	-4	NW	2	z₀	73	45	48	6	1	3	-	2-3	9+	2500	0	*
17·0	-10	WNW	3	c	73	55	56	8	5	-	-	7-8	9+	5700	0	2
17·3	-4	SSE	2	c/pr	68	55	53	6	6	-	-	9+	9+	1000	0	2
17·3	-2	WNW	2	c	69	65	55	7	5	7	-	2-3	9+	4000	0	*
17·0	0	NW	2	z₀	67	65	54	6	5	7	-	9	9	4000	0	*
18·2	-6	NW	3	c	68	55	51	8	7	5	9	2-3	9	4000	0	*
17·6	-8	NW'W	3	c	68	55	53	7	-	7	-	0	9+	-	0	*
18·1	0	NW'W	3	c	65	55	50	8	5	5	-	T	9	3000	0	*
20·6	-10	WNW	3	bc	62	85	57	7	1	3	-	2-3	4-6	2000	0	3
19·6	-6	W	4	c-bc	66	75	59	7	-	3	-	0	7-8	-	0	*
19·5	-12	W	2	c-bc	62	85	56	8	5	-	-	7-8	7-8	4000	1	2
21·7	-6	NW'W	3	c	65	75	55	8	5	-	-	9	9	2000	0	1
21·9	-12	W	3	bc	63	85	56	8	7	-	-	4-6	4-6	2000	0	2
22·4	-14	W'N	3	bc	65	75	57	7	8	4	-	2-3	4-6	1500	0	2
20·6	-10	W'N	3	c-bc	60	92	58	7	1	7	-	1	7-8	3000	0	2
19·1	-6	WSW	3	c/r	60	85	65	8	8	7	-	7-8	9+	2500	1	2
17·6	-8	WNW	2	c	68	55	53	8	5	7	-	4-6	9+	2500	0	*
17·5	-8	WNW	4	c	65	65	52	7	4	7	-	7-8	9+	2000	0	*
16·5	-6	W	4	z₀	65	65	54	6	7	3	-	7-8	9+	1500	0	3
16·1	-4	WNW	4	ir₀	63	75	54	7	5	7	-	4-6	9+	2000	0	*
	-8	W	5	bc	66	65	56	7	2	3	1	2-3	4-6	2200	0	3
11·7	+4	WNW	5	bc	65	55	48	8	1	4	-	2-3	4-6	2500	0	4
12·2	+4	WNW	4	bc	68	55	53	9	8	-	5	2-3	4-6	3000	0	*
15·0	+6	W	4	c-bc	63	65	51	8	8	6	-	4-6	7-8	2500	0	*
14·9	+4	W'N	3	c-bc	61	65	51	8	8	-	4	4-6	7-8	2200	0	*
17·5	0	N'W	4	c	59	85	53	8	5	-	-	9+	9+	3000	0	3
16·6	+2	WNW	4	c-bc	56	85	52	9	8	-	-	7-8	7-8	2000	1	3
13·9	+8	WNW	4	pr	54	85	50	8	9	3	-	7-8	7-8	3000	1	3
14·2	+2	W	3	pr	52	85	48	7	5	-	-	9+	9+	1500	1	*
11·5	+8	NW	4	b-bc	61	65	49	8	2	6	-	1	2-3	3500	1	2
11·0	+2	WNW	5	c	55	75	47	9	8	3	-	7-8	8	2000	0	*
06·2	-2	WNW	6	c/d	52	85	49	8	6	9	-	4-6	9+	1200	1	2
22·2	0	NW	4	c-bc	57	75	49	8	8	-	-	7-8	7-8	2500	0	3
18·1	+2	WNW	4	c	56	75	49	8	8	-	-	9+	9+	1500	1	4
18·6	+6	NW'W	4	c	59	65	47	8	8	6	-	4-6	9+	2500	0	*
20·5	+2	WNW	2	c	62	75	54	8	5	7	-	7-8	9	2500	0	*
23·0	-6	N'W	4	c	60	75	52	9	5	7	-	9	9+	2500	0	3
20·5	-6	W'S	4	bc	65	75	57	8	5	3	-	2-3	4-6	1500	0	2

PAST 24 HOURS. Weather.

7h.—13h. 4th (39)	13h.—18h. 4th (40)	18h.—1h. 4th to 5th (41)	1h.—7h. 5th (42)
c₂bccy	cy	cy	c
c₀cm₂bcy	bcycy	c₂-ybcz₀	bzc₀m₀
ccy₀bcy	bcycy	cyc₀cbc	ccm₀
cm₀bccy	bcybcy	cybccbc	bccwm₀
ccybcy	bcybc	bccbc	c
bccm₀	cpc₂c	bcm₀bm₀	
c₂ccy	cbbcy	cbccz₀	cm₀
bccm₂y	cm₂y		c
bcm₀ccy	bcycy	cycm₀	cm₀
c₂cy	c₂₀y	c₂₀	cbcc
bcm₂cy	c₂yc	c₂m₀	bcm₀c
bccz₀c	c	ccm₀bcm₀	bcm₀c
bcc	c	cbc	bcc
cz₀bcycy	cy	cyc	c
bcc	cy	c	bcwcc
c	cbc	bcc	c
cbc	bcc	ccw	cwcm₀w
cc	cc	c	c
cm₂c	c	bc	cm₀
cbc	bccbc	bccbc	bcc
bcc	cbc	bccbc	bccw
0bccm₀	cm₂	c	c
cm₀	ci₂₀	cbcw	bccw
cm₂cyl	c₂₀cy	cyiciclo	bcm₀Rc
cm₂c	c₂₀c	c	c
cm₀	cm₀	bc	c
c	c	bc	b
bc	bccbc	bc	bcc
cpcbc	bccbcy	bcybc	bc
ebc	bccbc	bccprobc	bccproc
bcicl₀d₀bc	bcebc	cbc	bcc
iricl₀	ebcc	cbccb	bbc
cur₀c	cpr₀c		
cid m₀c b	bcc	bc	c
cpr₀	ccpr₀c	cprbcbcpr₀bcprocpr	
cpr₀	cpr	bcc pprbc	bc	cprocbcbbc
cur₀prbc	bcc pprbc	bc	bc
cbc	cbc	cprocbc
cr₀cpr₀c	cid m₀c	bcbc	c
cr₀₀rr			
c	bc	bc	c
pr	pr	c	pr
cm₂c	c	cbc	bbc
y	c	c	c
pr	pr	c	c
c	pr	c	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 5th July 1943

Districts.	Forecast
1 S.E. England 2 E. England .. 3 E. Midlands ...	Wind northwest light, backing southwest light to moderate; becoming fine during the afternoon; cloud increasing again tomorrow, probably with some rain in western part of area by end of period; rather warm
4 W. Midlands 5 S.W. England 6 South Wales	Wind backing southwest, increasing to fresh at times, especially on coasts; becoming overcast with some rain and drizzle, with some hill fog near coasts; rather close or close.
7 North Wales 8 N.W. England	Light winds becoming southwest to south, increasing fresh, perhaps strong locally on coast; fine to fair today; becoming overcast with rain tomorrow; hill fog later; rather close or close.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Winds northwest, light to moderate, backing southwest to south, freshening tomorrow; fair to fine today; cloud increasing tomorrow with chance of rain by end of period; average temperature.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland	Wind falling light variable, finally freshening from Southeast; variable cloud with local showers today; becoming dull and rainy tomorrow; rather cool or cool.
14 Mid Scotland 15 N.E. Scotland	Moderate or fresh northeast winds, falling light variable; bright periods; local showers with chance of more general rain later; rather cool.
16 Orkneys and Shetlands	
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Winds southwest to south, moderate to fresh, veering west to northwest, perhaps strong locally on coast; becoming overcast with rain spreading from the West tonight; improved conditions with bright periods later in period; rather close, becoming cooler.

GENERAL INFERENCE

A ridge of high pressure over the British Isles is moving East and giving way with the advance of a depression, which is probably quite vigorous from the Atlantic. Apart from some showers in the extreme north, weather will be fair to fine over Great Britain at first, but rain will commence in Ireland tonight, and spread eastwards, to affect much of the British Isles before the end of the period.

FURTHER OUTLOOK

An unsettled westerly type seems likely generally.

Forecasts issued at 10·30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Monday, 5th July 1943 1943.

10° 5°W. 0° 5°E 10°

60° 55° 50°

Low

1002 1004 1006 1008 1010 1012 1014 1016 1018 1020

50° HIGH

5°W. 0° 5°E

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in tenths.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Scale 1 : 5,000,000

Mb 1050 1040 1030 1020 1010 1000 990 980 970 960 950 940 930

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Monday 5th July

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 5th July 1943 — No. 29810

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	62	*	*	*	*	*	*	*	*	*
	Croydon ...	290	18·2	-4	WNW	1	Zo	63	65	52	6	–	7	–	0	7-8	–
	S. Farnborough	226	17·9	-2	N'N	2	bc	61	75	52	7	5	3	–	2-3	4-6	3000
	Boscombe Down	417	18·5	-6	WNW	2	bc	56	92	54	7	–	7	–	0	4-6	–
	Thorney Island	10	18·2	-6	NW'N	2	c-bc	61	85	55	7	–	7	–	0	7-8	–
	Lympne ..	283	17·2	-4	NE	1	Zo	63	65	53	6	–	–	1	0	2-3	–
	Manston ...	154	16·5	-4	–	0	Zo	63	85	58	5	5	7	–	4-6	10	6000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	16·6	-4	NW	2	Zo	66	55	47	6	–	7	–	0	10	–
	Gorleston ...	5	16·9	-2	W	2	Zo	62	75	57	6	5	–	–	7-8	7-8	1500
	Mildenhall ...	15	16·9	0	WSW	2	Zo	58	85	52	6	–	3	8	0	4-6	–
	Cranwell ...	203	16·7	0	W	1	Zo	57	85	52	6	5	7	–	2-3	4-6	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	17·7	-6	WNW	1	c	58	85	53	7	5	7	–	1	9	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	18·9	-10	WNW	2	c	60	97	59	7	2	2	–	7-8	9+	2500
	Bristol	209	19·0	-6	WSW	2	c-bc	59	97	58	7	5	3	–	4-6	7-8	4000
	Portland Bill ...	32	19·5	-6	W	2	c-bc	60	85	56	8	5	–	–	7-8	7-8	4000
	Plymouth ...	86	20·6	-6	WNW	2	Zo	58	92	56	6	–	3	–	0	4-6	–
	The Lizard ...	240	21·0	-4	NW	2	bc	58	97	58	7	4	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	21·0	-8	NNW	2	bc	58	92	56	7	5	3	–	2-3	4-6	1500
	Guernsey ...	175															
6	Pembroke ...	142	19·5	0	NEW	3	c	57	85	51	8	8	–	–	9+	9+	2500
7	Holyhead (Valley)	32	18·8	-6	–	0	c-bc	55	92	51	8	5	–	6	Tr	7-8	5700
	Chester (Sealand)	16	18·1	0	NW	3	c-bc	57	85	51	6	5	2	–	4-6	7-8	2500
8	Manchester ...	230	17·9	+2	NNW	2	bc	54	85	50	7	4	3	–	2-3	4-6	4000
10	Spurn Head ...	29	16·1	+4	NNW	5	bc	59	85	53	7	7	4	–	2-3	4-6	2500
	Catterick (Sc)...	192	16·8	0	W	1	b-bc	50	92	47	8	5	3	–	2-3	2-3	3000
	Tynemouth ...	108	15·8	0	N	3	b-bc	54	85	49	7	–	4	–	0	2-3	–
11	St. Abbs Head	280	13·4	+2	W	4	b-bc	54	85	48	8	4	4	–	2-3	2-3	3500
	Leuchars ...	36	14·7	+4	NSW	1	bc	48	85	45	9	5	–	8	4-6	4-6	2000
12	Renfrew (Abbotsl.)	19	16·1	+2	WNW	3	Zo	51	85	47	6	5	4	–	4-6	4-6	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	18·1	-2	NNW	4	b-bc	55	85	51	8	4	4	–	1	2-3	1500
13A	Tiree	44	17·3	-2	NW	3	c-bc	52	85	48	8	2	6	–	4-6	7-8	2000
13B	Stornoway ...	12	14·6	-2	N	3	c/pr	49	85	46	8	8	–	–	4-6	4-6	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	13·2	+4	W	1	bc	47	85	43	8	4	–	–	4-6	4-6	2500
	Wick ...	114	11·3	-2	W	3	c	48	92	46	8	8	3	–	7-8	9+	3000
16	Sumburgh ..	19	06·2	-2	NW	6	bc	51	85	45	8	6	7	–	2-3	4-6	1100
17	Blacksod Point	18	20·9	-14	E	1	b-bc	51	85	47	3	8	–	–	2-3	2-3	2500
18	Malin Head ...	84	18·4	-2	NW'N	3	c-bc	53	85	49	8	8	–	–	7-8	7-8	1500
	Aldergrove ...	268	19·1	-2	NW	2	bc	52	85	50	8	8	–	–	4-6	4-6	1800
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	21·9	-6	NW	3	c	56	75	48	9	5	–	–	9+	9+	2500
	Roches Point	22	20·6	0	N	4	bc	57	85	52	8	5	–	–	4-6	4-6	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	16·2	-4	NNE	2	c	62	75	55	7	5	–	–	9+	9+	2500	0	*
	Croydon ...	17·1	-6	NW	2	Zo	62	75	53	6	5	3	–	2-3	9+	3000	0	*
	S. Farnborough	16·7	-6	N'W	1	Zo	59	85	54	6	5	7	–	4-6	9+	5700	0	*
	Boscombe Down	17·5	-4	–	0	Zo	57	92	55	5	5	7	–	2-3	10	5000	0	*
	Thorney Island	16·9	-2	–	0	c	61	85	57	7	–	7	–	0	9+	–	0	*
	Lympne ..	16·1	-2	N	3	c	61	75	54	7	5	–	–	10	10	5500	0	*1
	Manston ...	15·3	-6	NW	3	Zo	61	85	55	6	5	7	–	4-6	9	6000	0	*
2	Shoeburyness ...	16·8	0	NNW	3	c	61	75	52	7	–	3	–	0	9+	–	0	*
	Felixstowe ...	16·0	-4	NW'N	1	Zo	59	85	54	6	5	7	–	4-6	9	5700	0	1
	Gorleston ...	15·4	-8	NW'N	2	c	59	85	52	7	–	7	–	0	9+	–	0	2
	Mildenhall ...	16·4	-2	NNW	2	c	56	75	49	8	5	4	8	Tr	9+	4000	0	*
	Cranwell ...	15·9	-6	NW	3	c	56	75	46	7	5	7	2	Tr	9+	4000	0	*
3	Birmingham ...	17·3	-6	NNW	2	c	56	75	48	7	5	7	7	2-3	9+	1500	0	*
	Upper Heyford	16·7	-2	N	2	c	57	75	49	7	–	7	–	0	10	–	0	*
4	Ross-on-Wye	17·2	-10	E'N	1	c	58	85	52	7	5	1	–	7-8	10	2500	0	*
5	Hartland Point	17·0	-4	N	3	c	58	85	53	8	5	–	–	9+	9+	4000	0	3
	Bristol	17·7	-2	NNE	1	Zo	59	97	58	6	–	7	–	0	10	–	0	*
	Portland Bill ...	18·3	-6	N	2	c	60	85	56	8	5	–	–	10	10	4000	1	*2
	Plymouth ...	18·3	-6	–	0	Zo	59	92	58	6	5	7	–	4-6	10	2000	0	1
	The Lizard ...	17·7	-10	W	3	c	58	97	58	8	5	–	–	9+	9+	1600	0	3
	Scilly (St. Mary's)	18·2	-10	NNW	3	c	59	92	57	8	8	7	–	4-6	10	1500	0	2
	Guernsey ...																	
6	Pembroke ...	18·4	-8	NNE	3	c-bc	55	92	53	8	8	7	–	2-3	7-8	3100	0	1
7	Holyhead (Valley)	17·9	-6	NNW	2	c	56	85	51	8	7	–	–	9+	9+	3500	0	1
	Chester (Sealand)	16·9	-8	NW	3	c	59	65	49	8	8	3	1	4-6	9	5000	0	*
8	Manchester ...	16·6	-10	NW	2	Zo	55	85	50	6	2	3	2	2-3	9+	3000	0	*
10	Spurn Head ...	15·9	-2	NW	4	c-bc	56	75	48	7	7	3	2	4-6	7-8	2500	0	3
	Catterick (Sc)...	16·3	+8	NNW	1	bc	56	65	46	3	7	3	6	Tr	4-6	4000	0	*
	Tynemouth ...	16·7	-4	W	3	b-bc	54	75	45	7	–	4	–	0	2-3	–	0	2
11	St. Abbs Head	13·7	0	WNW	4	bc	53	75	47	8	1	4	–	4-6	4-6	4500	0	3
	Leuchars ...	13·7	-10	NSW	2	c	50	55	34	9	5	7	7	2-3	10	4000	0	*
12	Renfrew (Abbotsl.)	15·1	-8	W	2	c	55	75	48	8	8	6	6	2-3	9+	2000	0	*
	Eskdalemuir ...	15·3	-8	NNW	2	c-bc	53	75	45	8	5	7	1	2-3	7-8	2500	0	*
	Point of Ayre...	16·7	-4	NW	3	bc	57	85	51	8	2	4	–	2-3	4-6	2000	0	2
13A	Tiree	15·2	-8	W	3	c	54	65	46	8	8	9	6	4-6	9	2500	1	
13B	Stornoway ...	12·3	-14	N	3	c/pr	51	92	49	9	8	3	2	7-8	9	1800	1	2
15	Dalwhinnie ...	13·6	-6	N	2	c	48	85	42	7	5	–	6	9	9+	1500	1	*
	Aberdeen † ...	12·3	-12	WNW	3	bc	55	65	42	9	1	4	6	Tr	4-6	4000	1	*2
	Wick ...	10·9	-2	WNW	4	bc	53	85	47	9	8	3	5	4-6	4-6	2000	0	*
16	Sumburgh ..	06·1	-2	WNW	4	c	52	75	46	8	5	–	–	2-3	9	1500	1	2
17	Blacksod Point	17·8	-18	NSW	2	c	55	85	51	8	8	–	–	10	10	2500	0	2
18	Malin Head ...	16·2	-10	NW	3	c-bc	55	65	44	8	8	–	–	7-8	7-8	1500	1	3
	Aldergrove ...	17·4	-6	SW	1	c	53	85	49	9	8	7	–	9	9+	2500	0	*
19	Birr Castle ...	19·4	-6	SSE	1	c-bc	50	92	48	8	5	–	–	7-8	7-8	2500	0	*
20	Valentia Obsy.	19·7	-10	SW	1	c	56	85	52	9	5	–	–	9+	9+	4000	0	1
	Roches Point	19·4	-6	NNW	2	bc	54	85	50	8	5	–	–	4-6	4-6	2500	0	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine Apr 4th Hrs. (38)
1	London (Kew)	75	59	49	–	–	7·2
	Croydon ...	77		54	–	–	9·9
	S. Farnborough	77	55	47	–	–	1·1
	Boscombe Down	75	52	45	–	–	9·3
	Thorney Island	75	58	55	–	–	*
	Lympne ..	77	61	57	–	–	10·6
	Manston ...	77	61	57	–	–	11·3
2	Shoeburyness ...	78	59	57	–	–	9·
	Felixstowe ...	79	58	57	–	–	8·9
	Gorleston ...	72	56	50	Tr	–	2·0
	Mildenhall ...	75	53	48	–	–	5·2
	Cranwell ...	69	49	46	–	–	1·8
3	Birmingham ...	69	54	46		–	3·8
	Upper Heyford	73	55	47	–	–	*
4	Ross-on-Wye	72	55	50	–	–	5·0
5	Hartland Point	68	57	56	–	–	6·1
	Bristol	74	56	51	–	–	9·8
	Portland Bill ...	63	57		–	–	*
	Plymouth ...	71	57	49	–	–	9·5
	The Lizard ...	69	56	*	–	–	10·9
	Scilly (St. Mary's)	69	56	*	–	–	10·5
	Guernsey ...						
6	Pembroke ...	64	53		–	–	5·3
7	Holyhead (Valley)	64	50	43	–	1	*
	Chester (Sealand)	59	54	49	–	Tr	1·8
8	Manchester ...	66	50	42	Tr	–	*
10	Spurn Head ...	67	55		–	–	0·7
	Catterick (Sc)...	70	47	42	–	–	2·0
	Tynemouth ...	67	50	47	–	–	*
11	St. Abbs Head	67	50		Tr	–	*
	Leuchars ...	71	46	39	Tr	–	4·1
12	Renfrew (Abbotsl.)	68	47	44	0·1	Tr	8·8
	Eskdalemuir ...	66	44	35	0·2	–	4·8
	Point of Ayre...	63	53	*	Tr	–	1·0
13A	Tiree	61	50	46	1	–	4·5
13B	Stornoway ...	61	48	43	1	2	5·9
15	Dalwhinnie ...	62	43	34	–	1	4·2
	Aberdeen † ...	69	47	41	2	–	6·2
	Wick ...	62	46	43	–	0·4	*
16	Sumburgh ..	64	51	48	–	–	
17	Blacksod Point	62	49	*	0·5	–	
18	Malin Head ...	61	49		1	Tr	3·6
	Aldergrove ...	66	50	47	–	–	5·4
19	Birr Castle ...	68	41	36	Tr	–	1·1
20	Valentia Obsy.	65	54	51	0·1	Tr	0·7
	Roches Point	62	54		Tr	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 4th July				18h. G.M.T.				01h. G.M.T. 5th July				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
109	73	02755	24665	83	02844	26625		8-	01744	25624		88	01703	25524	
115				54	02844	28586		87	02814	27586		57	02844	27526	
203	83	02814	22414												
206	86	02955	28466	2-	25854	26484		43	01854	23284		74	02853	22425	
210	8-	02965	26325	8-	81857	59487		76	01963	27484					
219	26	02854	27415	8-	10945	27586		8-	02855	27685		86	02855	25487	
230	8-	02955	26365	86	02955	26386		8-	02855	24285		87	02955	00086	
245	84	01954	22464	86	10954	29485		5-	01962	24102		50	02951	23316	
260	82	25646	22588	20	01863	22514		00	00790	18310					
278	87	81545	26368					57	02854	26486		87	02845	24327	
279	57	05655	22528	23	01853	26364		44	00852	26812		86	02853	29113	
285												13	01742	28513	
288	53	02766	56417	57	25743	23386		00	01890	19210		54	01852	18213	
575	83	02854	52456	8-	25848	61488		5-	02855	31215		77	10755	22128	
301	53	05654	23426	77	02877	31487		50	018·4	28414		84	02855	30327	
321	57	05654	26427	57	05663	26327		50	05663	26324		03	05630	30226	
299	80	02746	24316	56	01744	24415		50	01752	24313		04	01790	24213	
282	87	05654	56426	57	02754	24327		04	01890	24213		14	01851	27224	
310															
614	57	05664	28228	59	05664	29227		57	05664	28125		00	05690	28127	

13h. G.M.T. 4th July				18h. G.M.T.				01h. G.M.T. 5th July				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
388	16	02763	18327					54	01863	28124		23	02864	02126	
334												--	01645	30116	
340	57	05663	26227	57	02854	24325		51	05644	28228		57	02861	28226	
136	57	05654	24527	53	05663	28327		09	05690	24225		07	02890	25427	
336												13	01763	28315	
350	73	02754	22325	57	02762	26229		57	05664	24225		57	02871	26228	
368	80	05654	24414	50	05662	28414		57	05664	24117		59	05663	00028	
379	55	05654	26427	07	05690	26327		53	05665	26327		57	05631	02328	
390	10	05664	26324	53	05654	24228		50	05564	28124		50	05674	32327	
382				53	02755	25326		54	02765	00015		57	05674	00027	
438	50	05564	23414	24	05690	23512		5-	08447	30351		57	02654	32327	
430	10	01753	22313	10	01751	21413		50	06672	28127		52	02757	14227	
409	51	05634	28428	26	01753	26313		57	05646	24227		57	05635	02228	

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 5th July.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	c2bccy	cy	cy	
Croydon ...	cm.c2bcy	bcycy	bzcm.	Kew 24 hr. ended 7h.
Greenwich ...	bcy	cy	c	Max. Time
Camden Square	c	c	*	10·1 Shade of period
Kensington ...	bc	bcc	*	Min. Time
Hampstead ...	bc	bc	bc	

Stations.	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 % Yesterday	Humidity 9h % To-day.
Kew ...	75	59	49	–	–	7·2	*	*
Croydon ...	77	*	54	–	–	9·9	*	*
Greenwich ...	79	59	50	–	–	8·1	44	63
Westminster ...	78	58	57		–		83	69
Regents Park ...								
Camden Square ...	79	59	56	–	–	*	*	67
Kensington ...	78	60	55	–	–		60	71
Hampstead ...	77	55	53	–	–		*	79

SECRET

Page 1

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Tuesday, 6th July 1943

No. 2881

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	14·9	-8	W'N	1	c	68	55	53	6	8	3	1	7-8	9+	4000
	Croydon ...	15·9	-6	W'N	1	c	68	55	52	6	5	2	-	4-6	10	3000
	S. Farnborough	14·8	-12	NW	1	c	69	55	54	6	8	7	2	4-6	7-8	2500
	Boscombe Down	15·3	-18	S'W	2	c	68	55	52	8	2	-	8	4-6	9	2000
	Thorney Island	15·6	-10	S'W	3	c	65	75	58	7	7	2	-	4-6	10	7700
	Lympne ...	15·3	-8	SSE	1	c	65	65	53	7	5	1	-	4-6	10	3700
	Manston ...	15·5	+1	N'W	1	c	63	65	51	7	5	7	-	7-8	10	3000
2	Shoeburyness ...	15·9	-2	NNW	1	c	65	55	49	8	5	2	-	4-6	9	4000
	Felixstowe ...	15·1	-6	WNW	2	c	68	65	53	7	1	7	-	1	9	4000
	Gorleston ...	14·4	-6	E'N	2	bc	60	75	51	7	8	7	-	4-6	4-6	1800
	Mildenhall ...	14·8	-10	W'N	2	c	66	65	51	8	5	-	-	4-6	9+	4000
	Cranwell ...	14·2	-10	W'S	3	c	63	55	49	7	8	6	-	7-8	9+	2500
3	Birmingham ...	14·6	-12	W	3	c	63	55	48	8	8	-	-	9	9	4000
	Upper Heyford	14·5	-16	W	2	c	67	55	52	8	7	1	-	4-6	9	3000
4	Ross-on-Wye	14·4	-20	SE	2	bc	68	55	53	8	8	-	-	4-6	4-6	3500
5	Hartland Point	16·1	-10	N	2	bc	61	75	52	8	7	-	-	4-6	4-6	4000
	Bristol ...	15·2	-18	W	3	c	71	65	53	8	2	3	-	2-3	9	4000
	Portland Bill ...	16·6	-10	W	2	c	62	85	58	8	4	4	-	4-6	10	4000
	Plymouth ...	16·6	-14	SW'S	3	c	66	85	61	8	8	-	2	4-6	9	2000
	The Lizard ...	16·6	-8	WNW	2	c-bc	67	75	57	8	8	3	-	7-8	7-8	2000
	Scilly (St. Mary's)	17·5	-8	NW'W	4	c	66	75	46	8	8	7	-	7-8	9+	1200
	Guernsey ...															
6	Pembroke ...	16·9	-10	NW'N	2	bc	58	92	55	8	1	4	-	2-3	4-6	3000
7	Holyhead (Valley)	16·1	-10	W'S	3	bc	62	65	51	9	2	3	-	2-3	4-6	3500
	Chester (Sealand)	15·1	-10	NNW	3	c	62	45	42	9	7	3	-	4-6	9	3500
8	Manchester ...	15·3	-6	NW	3	c-bc	62	55	44	8	4	2	-	4-6	7-8	2500
10	Spurn Head ...	14·5	-12	SE'E	3	c	62	65	51	7	2	3	1	7-8	9	2500
	Catterick (Sc) ...	13·2	-16	NNW	1	c	62	45	43	9	7	6	-	7-8	9+	4000
	Tynemouth ...	14·2	-6	SSE	3	bc	59	65	47	7	2	-	-	4-6	4-6	2800
11	St. Abbs Head	12·2	-10	NW	2	c	57	75	48	8	5	-	-	10	10	3500
	Leuchars ...	11·7	-18	WSW	2	c	62	45	40	9	7	7	-	4-6	10	1500
12	Renfrew (Abbotsl.)	12·7	-14	SW	3	c	60	55	46	8	8	7	-	7-8	10	1600
	Eskdalemuir ...	13·3	-8	W'N	4	c	55	65	45	7	5	-	-	10	10	1800
	Point of Ayre ...	15·0	-10	NW'W	3	c	62	65	49	8	2	7	6	1	9+	2500
13A	Tiree	13·1	-12	SW'W	2	c	53	92	51	8	5	7	-	7-8	10	1500
13B	Stornoway ...	10·4	-2	W	4	c	57	65	45	8	8	6	3	7-8	9+	1600
15	Dalwhinnie ...	12·0	-6	W	3	c	53	65	42	8	5	2	-	9	10	2500
	Aberdeen ...	11·2	-4	NW	3	c/pr	60	55	41	8	4	6	7	4-6	9+	2500
	Wick ...	10·3	-4	NW	5	c	60	65	46	8	8	7	6	4-6	9	3000
16	Sumburgh ...	06·9	+4	W'N	5	bc	55	85	51	8	2	-	3	2-3	4-6	2000
17	Blacksod Point	13·9	-22	S'W	4	c/pr	55	85	51	7	6	-	-	10	10	1500
18	Malin Head ...	13·3	-18	WSW	2	c	56	75	48	8	5	-	-	10	10	1500
	Aldergrove ...	14·5	-14	SW	3	c-bc	59	65	49	9	8	7	-	2-3	7-8	2000
19	Birr Castle ...	15·6	-18	WSW	2	c	61	69	50	8	8	2	-	7-8	10	1500
20	Valentia Obsy.	17·1	-16	WSW	5	pr	59	85	55	8	8	-	-	3+	9+	2500
	Roches Point	16·6	-16	S	3	c-bc	62	75	54	8	8	-	-	7-8	7-8	2500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
12·3	-12	SSW	2	c/pr	68	65	56	6	8	-	-	9	9	2500	0	*
13·8	-12	S	2	PR	66	75	56	7	9	-	-	7-8	9+	1800	0	*
12·3	-10	WSW	3	c-bc	67	75	57	7	7	7	-	4-6	7-8	3000	1	*
13·5	-16	W'N	3	c-bc	66	55	48	8	2	3	1	4-6	7-8	2500	0	*
13·4	-10	SW'W	3	c	63	75	57	8	1	-	5	2-3	9+	4000	0	*
13·6	-12	SSE	2	c	62	85	58	6	-	1	8	0	9	-	0	5
13·6	-14	SE	2	c	61	75	54	6	3	3	-	7-8	9+	2500	0	*
13·7	-6	S	2	c	64	65	49	7	5	-	-	9+	9+	4000	0	*
12·8	-18	S	3	c	65	75	58	8	5	7	-	4-6	9	4000	0	3
12·9	-10	SE'E	3	b	61	75	53	7	-	-	-	0	0	-	0	3
12·0	-14	SW'W	1	c	68	55	48	8	7	3	-	7-8	9+	4000	0	*
11·6	-10	NW	1	bc	66	45	46	7	2	6	-	2-3	4-6	3000	0	*
11·0	-16	NW	3	c	66	97	65	8	8	-	-	9	9	4000	0	*
11·9	-14	W'S	2	c-bc	69	55	49	8	2	-	-	7-8	7-8	3500	0	*
12·2	-10	W'N	3	c-bc	66	55	47	9	7	-	-	7-8	7-8	3500	0	*
14·2	-12	NNW	2	bc	61	65	49	9	1	4	-	2-3	4-6	3000	0	3
13·5	-10	W	3	b-bc	64	75	54	8	2	4	-	1	2-3	4000	0	*
14·5	-6	SW	3	c	60	92	58	8	2	4	-	4-6	10	4000	1	2
14·8	-6	WNW	3	c-bc	65	55	51	9	1	4	-	4-6	7-8	3000	0	1
15·5	-6	NW	4	bc	65	75	53	8	2	3	-	2-3	4-6	2500	0	3
16·5	-6	W'N	3	c	63	92	61	8	8	3	-	4-6	9+	1800	0	3
14·4	-10	W	3	b-bc	59	85	55	8	1	2	-	2-3	2-3	3000	0	1
13·1	-22	SW	3	c	59	65	47	9	1	3	-	Tr	9	4500	0	*
12·7	-16	N	3	b-bc	60	55	44	8	7	-	1	2-3	2-3	3500	0	*
12·7	-12	NW	3	c-bc	61	55	43	8	4	4	-	7-8	7-8	2500	0	*
11·8	-12	SE'S	3	c	61	85	56	7	7	3	-	7-8	9	2400	0	1
11·5	-6	WNW	2	c-bc	61	55	45	8	8	3	3	4-6	7-8	3000	0	*
12·6	-14	NW	3	c-bc	60	55	43	7	8	-	-	7-8	7-8	2400	0	2
10·0	-8	W	3	c	55	75	47	8	5	7	-	7-8	9+	4100	0	3
09·6	-12	SW	4	pr	57	65	47	8	8	7	-	4-6	9+	1800	1	*
10·3	-14	WNW	1	c/pr	55	85	51	8	8	7	-	7-8	9	2000	0	*
10·3	-14	SW'W	2	c	54	75	45	7	5	-	-	10	10	1500	1	*
12·5	-6	W	3	c	60	65	46	8	2	7	-	1	9+	2500	0	2
10·0	-18	W	2	c-bc	55	75	48	9	2	3	-	4-6	7-8	2500	1	2
09·2	+2	W	1	c/pr	55	92	53	8	8	6	-	7-8	9+	1400	0	2
09·6	-12	WSW	3	c	52	75	44	8	5	7	-	7-8	9+	2500	1	*
09·9	-6	NNW	1	c/bc	54	85	50	8	4	2	-	4-6	10	4000	1	1
09·7	-4	W	3	pr	54	65	44	9	8	7	-	2-3	9+	2000	0	*
06·2	-6	W	4	c/pr	52	85	48	8	2	7	6	2-3	9+	2000	1	2
09·7	-18	W'S	4	c/pr	56	92	54	7	6	3	-	4-6	9+	1500	1	4
09·5	-26	E	1	pr	55	75	47	8	8	-	-	10	10	1500	1	1
10·6	-22	—	0	c/pr	55	92	53	8	8	-	-	7-8	10	2000	1	*
11·4	-22	WSW	2	c	58	75	50	8	8	2	-	7-8	10	1500	0	*
13·8	-16	W'S	4	c/pr	57	85	53	8	8	-	-	8+	9+	2500	0	3
13·4	-18	SW'W	3	c-bc	61	75	53	8	8	-	-	7-8	7-8	1500	0	3

PAST 24 HOURS.

Weather. 7h.—13h. 5th. (39)	Weather. 13h.—18h. 5th. (40)	Weather. 18h.–5h. to 1h. 6th. (41)	Weather. 1h.–7h. 6th. (42)
cz.	cpr. cz.	c	cz. c
cm.	cm. cm. cpr.	cpr. cbc	bc cbc
c m z	cz. cl pR	bcc	bw bcc ir.
cm. cy	cy pr cy by	bc y bcb	bb cc id.
c	c	bc w cwc	bcc
c	cc m.	cbc cm.	cbc
cm z.	cc y c	cz. m. bc	bb cc m. cb
cy	bcc	cz. m.	bc w
c	c	bc bc m.	bc m b
cbc	bc cb cb	cpr	bcc
cc y	cy b cy cy	cpr. bc b	bm. em. c
cm. z y	bc	cbc	bc a bc m.
c	cbcc	cbcc	cbc
c	cy	cy bc b	bc bb cc
cbcc	cv bc b	bc cb c	
cbc	bccvy	bcc pr	cpr bc
cm. c	cb cy bc	bc bb w	bw ic pr fR
c	c	c	c
ci g m. c	cpr. cy	cbcc	c
c	cbc	epr	bcc pr
c	cbcc	cp.	cp. c
bc	bc	bcc	prc
cby	bcc	cv or or m.	cpr. bc
cy	c, bcy	bcy, c	cr m.
cm cy	cbcy	bcc	cr r r. r.
c	c	c	c
bc cy yr	bc y cy	c	cr. or. m.
bc	bcc	c	cir m
bcc	c m. r c	c	cpr cir
cy	cy cp rj p	cpr. c	cir. r r m.
c	cc pr c	cc m. ir.	cm. r r r. r.
cir	cir c	cr r ir.	cp Re
bbc	c	cr r	r r c
ccy r	cr. r. c	cbcc	bcc
cc pr cp r c c	cc pr c	cpr. c	c
co	o pr o c	*	cpr. o
bc c p c y	cy cp r cir.	cir.	c
c	cpr. cc p r.	cbc	bcc
ebc	cpr o c	cpr o c	c
pr	pr	pr	pr
pr	pr	r	pr
c	cc pr c	cr r m cm.	cm. c
c	pr	*	pr
pr	pr	pr	pr
c	pr	pr	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 6th July

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
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Light or moderate west or northwest wind; bright periods, showers and local thunderstorms: cool.

16	Orkneys and Shetlands
17	N. W. Ireland
18	N. E. Ireland
19	S. E. Ireland
20	S. W. Ireland

As 1-15

GENERAL INFERENCE

A depression over South Scotland is moving east-southeast. There will be showers in all districts with local thunderstorms.

FURTHER OUTLOOK

Similar

Forecasts issued at 1300

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Tuesday 6th July 1943.

10° 5°W. 0° 5°E 10°

60° 55° 50°

Low Low HIGH

1004 1006 1008 1010 1012 1014

Mb In.
1050 31
1040
1030
1020 30
1010
1000 29
990
980 28
970
960 27
950 26
940
930

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

5°E. Scale 1 : 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Tuesday, 6th July

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◯

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— ◯ Clear sky. ◯ Sky less than 3/10 clouded. ◐ Sky 4/10 to 6/10 clouded. ◐ Sky 7/10 to 9/10 clouded. ◍ Overcast sky. ● Rain falling. ✱ Snow. ✱ Sleet. △ Hail. Fog. ≡ Mist. = Thunder. (K) Thunderstorm. K Slight haze. ∞

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday, 6th July 1943 — No. 2981

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	59	*	*	*	*	*	*	*	*	*
	Croydon ...	290	11·9	-2	S	2	bc	57	65	47	7	5	-	-	4-6	4-6	3500
	S. Farnborough	226	10.9	-8	W'N	2	c	56	75	48	7	5	7	-	7-8	10	3000
	Boscombe Down	417	11·7	-18	W'S	1	b-bc	51	85	47	8	-	4	-	0	2-3	-
	Thorney Island	10	12·2	-4	W'N	3	c	57	75	45	8	5	-	-	9+	9+	4300
	Lympne ..	283	11·2	-8	WSW	2	2o	56	97	56	6	5	-	-	10	10	600
	Manston ...	154	10·3	-10	SSW	2	2o	56	97	55	6	5	4	-	Tr	2-3	3000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	09·4	-16	WSW	3	2o	61	85	58	6	5	-	-	4-6	4-6	3400
	Gorleston ...	5	09·2	0	SW'S	1	c/pr	60	92	56	6	5	-	-	10	10	800
	Mildenhall ...	15	08·4	-14	SW'S	3	2o	56	85	50	6	5	-	-	1	1	4000
	Cranwell ...	203	09·3	-8	NW	2	2o	54	75	47	6	5	-	-	7-8	7-8	3500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10·1	-10	NW	3	bc	52	75	43	8	5	-	-	4-6	4-6	3500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10·5	-16	NW	3	c/pr	57	85	53	7	6	2	-	7-8	9+	1500
	Bristol	209	11·4	-18	W	2	b	52	85	49	8	5	-	1	1	1	4000
	Portland Bill ...	32	12·9	-12	N	3	c-bc	58	85	54	8	5	-	-	7-8	7-8	4000
	Plymouth ...	86	13·3	-16	W	4	c	58	85	54	8	5	-	-	9+	9+	2500
	The Lizard ...	240	13·5	-14	NNW	5	c/pr	56	92	54	8	5	-	-	9+	9+	1500
	Scilly (St.Mary's)	163	13·8	-14	W	4	c-bc/pr	56	85	52	8	5	6	-	4-6	7-8	1200
	Guernsey ...	175															
6	Pembroke ...	142	09·9	-26	N'N	5	c	57	97	56	8	8	-	-	9	9	2500
7	Holyhead (Valley)	32	08·3	-20	SW'W	4	rr	54	92	52	8	6	2	-	4-6	9+	600
	Chester (Sealand)	16	09·3	-18	S'W	2	r	53	75	46	7	5	2	-	7-8	9+	1500
8	Manchester ...	230	08·8	-18	S'E	2	c	51	75	42	7	5	3	-	4-6	9+	2500
10	Spurn Head ...	29	08·5	-14	NW'N	2	c	58	65	46	7	7	7	-	7-8	9+	1500
	Catterick (Sc)...	192	10·2	-6	-	0	c	50	85	46	7	5	7	-	2-3	9+	5000
	Tynemouth ...	108	09·7	-22	NW	2	c	54	75	46	7	8	-	-	9	9	2500
11	St. Abbs Head	280	07·2	-18	WSW	3	c	51	85	48	7	5	-	-	9+	9+	2500
	Leuchars ...	36	06·9	-14	-	0	c	51	85	48	8	5	-	-	9	9	2000
12	Renfrew (Abbotsl.)	19	06·0	-22	E'S	1	ir.	52	92	50	6	5	2	-	7-8	10	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	06·8	-22	SW	2	r.r.	53	92	51	8	9	2	-	7-8	10	2000
13A	Tiree	44	05·5	-18	-	0	c	51	85	48	8	1	7	-	1	9	2000
13B	Stornoway ...	12	07·2	-8	-	0	c	50	97	49	7	8	6	-	7-8	9+	3500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	07·0	-12	-	0	c	49	92	47	8	5	7	-	9	9+	2500
	Wick ...	114	07·4	-10	SW	1	bc	47	92	44	9	5	7	-	2-3	4-6	5500
16	Sumburgh ..	19	08·1	-10	W	3	c	51	92	49	8	5	-	-	10	10	1200
17	Blacksod Point	18	07·5	-8	W'N	3	pr	52	92	50	7	9	-	-	9+	9+	1500
18	Malin Head ...	84	03·5	-22	-	0	r.r.	50	92	48	8	5	-	-	9	9	1500
	Aldergrove ...	268	05·5	-34	SW'W	1	c	52	92	50	6	5	-	-	9	9	1000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	11·0	-10	NNW	4	bc	55	85	51	8	8	-	-	4-6	4-6	2500
	Roches Point	22	10·3	-12	W	3	b-bc	55	92	53	8	5	-	-	2-3	2-3	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	08·5	-6	SW	2	c	59	75	49	8	8	-	-	9+	9+	2500	0	*
	Croydon ...	10·2	-6	SSW	2	c	58	65	48	8	8	7	-	4-6	9+	700	0	*
	S. Farnborough	09·1	-6	SW'W	2	ir.	56	75	49	8	5	7	-	7-8	9	5000	0	*
	Boscombe Down	09·4	-22	SW	3	id.	55	85	50	8	8	7	1	7-8	9	6000	0	*
	Thorney Island	10·5	-6	WSW	3	c/p	60	85	53	9	8	7	-	4-6	9	2000	0	*
	Lympne ..	09·8	-2	W	2	b-bc	59	75	50	8	-	3	-	0	2-3	-	0	2
	Manston ...	09·0	-2	WSW	3	bc	57	75	49	8	5	3	-	1	4-6	3000	0	*
2	Shoeburyness ...	10·6	0	W	2	b-bc	59	65	49	7	-	3	-	0	2-3	-	0	*
	Felixstowe ...	08·2	-2	WSW	3	b	58	75	50	8	-	4	-	0	1	-	0	3
	Gorleston ...	07·5	0	W'S	3	c-bc	53	85	49	7	8	-	-	7-8	7-8	2500	1	2
	Mildenhall ...	08·0	0	WSW	3	c	54	85	48	8	5	4	-	9	9+	5000	0	*
	Cranwell ...	06·9	-8	W'S	3	c/d	55	75	49	6	5	7	-	7-8	10	1500	0	*
3	Birmingham ...	07·1	-10	SW	3	bc	54	85	50	8	1	4	2	Tr	4-6	2500	0	*
	Upper Heyford	07·7	-8	SW	3	c	53	85	48	7	5	7	2	2-3	9+	1000	0	*
4	Ross-on-Wye	07·9	-6	SW'S	2	bc	57	75	50	8	8	-	2	1	4-6	3000	0	*
5	Hartland Point	08·2	-2	WNW	4	c-bc/pr	55	92	53	8	3	-	-	7-8	7-8	1800	1	4
	Bristol	08·8	-10	SW	2	pr	54	97	54	8	8	4	3	4-6	4-6	2500	1	*
	Portland Bill ...	10·6	-6	WSW	4	c-bc	59	85	53	8	2	4	-	4-6	7-8	4000	1	3
	Plymouth ...	10·8	-4	W'S	4	c-bc	58	92	56	8	8	-	6	4-6	7-8	2500	0	2
	The Lizard ...	10·3	-10	W	4	pr	56	97	56	7	5	-	-	9+	9+	1000	1	4
	Scilly (St.Mary's)	11·0	-6	NW'W	4	c	57	85	53	8	8	6	-	7-8	9+	1200	1	4
	Guernsey ...																	
6	Pembroke ...	07·8	-8	NW'N	2	c-bc	56	92	53	8	8	-	-	7-8	7-8	2500	1	3
7	Holyhead (Valley)	05·7	-6	SW'W	4	c	55	85	50	9	8	-	-	9	9	2000	1	2
	Chester (Sealand)	06·9	-6	-	0	c-bc	56	85	50	9	2	6	-	4-6	7-8	3400	0	*
8	Manchester ...	06·1	-22	SSW	3	c	55	85	51	7	4	-	-	4-6	9	2500	1	*
10	Spurn Head ...	06·3	-6	SW'W	2	c	57	55	43	7	7	7	-	7-8	9+	1500	0	1
	Catterick (Sc)...	05·1	-16	-	0	c/r	49	97	49	6	5	7	-	7-8	10	3000	1	*
	Tynemouth ...	05·9	-12	SW	3	m	52	85	49	4	8	-	-	9+	9+	2200	1	2
11	St. Abbs Head	04·7	-6	SSE	1	rr	50	97	50	7	5	2	-	7-8	10	2500	1	2
	Leuchars ...	04·0	-10	E	1	rr	52	85	49	6	8	2	-	4-6	10	400	1	*
12	Renfrew (Abbotsl.)	03·2	-8	E'N	3	ir.	50	97	49	6	5	2	-	9	10	1000	1	*
	Eskdalemuir ...	02·8	-8	SW'S	3	c	50	92	47	8	5	-	-	9	9	1200	1	*
	Point of Ayre...	03·2	-10	W'N	3	c	55	85	51	8	8	7	8	4-6	9	2500	1	2
13A	Tiree	04·5	-2	N'E	2	c	53	92	51	9	2	7	-	4-6	9+	3000	1	1
13B	Stornoway ...	05·4	-8	NNW	2	c	53	85	49	7	-	3	-	7-8	9+	3400	1	1
15	Dalwhinnie ...	04·5	-6	N	1	c	47	92	46	8	5	2	-	4-6	10	1500	1	*
	Aberdeen † ...	05·3	-8	ENE	1	c-bc	53	85	49	8	2	3	3	1	7-8	2500	1	1
	Wick ...	06·1	-4	-	0	c	50	92	48	9	7	-	-	9	9	6000	0	*
16	Sumburgh ..	03·6	-6	NSW	4	pr	50	92	48	8	2	9	1	2-3	7-8	900	0	*
17	Blacksod Point	07·4	+4	NW'N	4	c/pr	54	85	50	8	9	-	-	9	9	1500	1	3
18	Malin Head ...	03·1	+6	E'N	4	rr	51	92	49	7	5	-	-	10	10	1500	2	3
	Aldergrove ...	02·6	-12	WSW	3	c	51	85	47	8	5	2	3	7-8	9+	1200	1	*
19	Birr Castle ...	06·7	0	WSW	2	bc	53	85	49	8	5	-	-	4-6	4-6	2500	0	*
20	Valentia Obsy.	10·5	+2	WNW	4	bc	56	75	48	8	2	-	-	4-6	4-6	2500	1	4
	Roches Point	08·6	-2	W'N	4	b-bc	56	85	52	8	2	-	-	2-3	2-3	2500	0	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine. .5th. Hrs. (38)
1	London (Kew)	70	55	45	Tr	-	1·3
	Croydon ...	68	52	47	Tr	-	0·7
	S. Farnborough	69	49	37	2	Tr	1·7
	Boscombe Down	69	45	40	Tr	Tr	3·9
	Thorney Island	70	53	45	-	-	*
	Lympne ..	65	54	54	-	-	2·2
	Manston ...	69	55	51	-	-	1·9
2	Shoeburyness ...	67	56	51	-	-	1·4
	Felixstowe ...	73	55	50	-	-	2·5
	Gorleston ...	62	53	47	-	1	6·0
	Mildenhall ...	71	48	46	-	2	4·4
	Cranwell ...	69	51	48	-	Tr	7·8
3	Birmingham ...	69	50	42	-	-	6·2
	Upper Heyford	70	47	35	-	-	*
4	Ross-on-Wye	70	48	38	-	-	5·8
5	Hartland Point	62	55	53	-	4	4·4
	Bristol	72	50	38	-	3	7·6
	Portland Bill ...	62	55	*	-	-	*
	Plymouth ...	71	55		Tr	-	5·0
	The Lizard ...	68	55	*	-	0·5	7·9
	Scilly (St.Mary's)	68	54	*	-	2	4·5
	Guernsey ...						
6	Pembroke ...	63	54	*	-	9	11·9
7	Holyhead (Valley)	64	51	51	-	2	*
	Chester (Sealand)	63	51	44	-	0·3	7·4
8	Manchester ...	64	50	41	-	1	*
10	Spurn Head ...	63	55	*	-	-	9·3
	Catterick (Sc)...	65	47	44	-	1	6·6
	Tynemouth ...	61	51	47	-	1	*
11	St. Abbs Head	59	49	*	Tr	1	*
	Leuchars ...	62	50	44	0·5	3	4·8
12	Renfrew (Abbotsl.)	63	50	44	0·2	10	1·6
	Eskdalemuir ...	58	47	43	3	10	4·0
	Point of Ayre...	63	52	*	-	6	1·9
13A	Tiree	57	48	45	1	-	2·3
13B	Stornoway ...	59	48		Tr	3	1·2
15	Dalwhinnie ...	54	40	34	0·1	0·5	0·6
	Aberdeen † ...	62	48	45	1	0·2	5·7
	Wick ...	60	42	35	-	-	*
16	Sumburgh ..	56	50	48	-	0·4	5·2
17	Blacksod Point	61	51	*	3	3	*
18	Malin Head ...	58	48		1	11	1·7
	Aldergrove ...	62	50	48	3	-	0·0
19	Birr Castle ...	63	49	45	0·2	1	2·8
20	Valentia Obsy.	63	54	51	0·5	1	1·7
	Roches Point	64	53		Tr	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 5th July ... 18h. G.M.T. — 01h. G.M.T. 6th July ... 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
109	8-	02845	25515	82	02854	24486	80	01843	23324	83	01944	26314
115				87	10344	24327	37	02844	20326	54	02844	20367
203				5-	01948	20468				5-	25948	08228
206	62	02956	22428	52	62854	24167	57	01973	20124	26	02854	00025
210	26	81955	27288	82	62854	6·68	53	22955	20167	23	25954	09186
219	17	61844	23468	83	25943	20287	86	02865	06227	8-	02944	32486
230	87	81866	20388	87	81956	20287	87	02855	00027	5-	64858	32168
245	74	01954	22328	87	81855	28287	53	01864	00024	57	61843	06367
266	82	02844	22428	6-	02844	22128				--	46408	12169
278				99	10864	18227	52	64746	18268			
279	8-	22854	22368	83	02855	20466	57	64756	18266	87	81856	23288
282	7	02855	26427							5-	53428	12358
288	16	02855	22226	3·	02865	24217	57	02867	16228	52	64656	18268
578	07	81755	20327	92	81745	00088	23	02854	22365	9-	81235	26288
301	24	01963	26324	70	02963	25315	5-	22744	18368	96	25745	23386
321	8-	02657	26327	73	01763	25224	53	05665	24126	57	62664	17267
298	10	01754	32314				54	02754	24115	55	01743	24114
282	6-	02966	28126	53	02963	24226	07	02890	24225	5-	51648	00028
310										--	46209	20355
614	7-	02753	24227	46	02715	30126	53	05555	30128	57	05654	20226

13h. G.M.T. 5th July ... 18h. G.M.T. — 01h. G.M.T. 6th July ... 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
388	26	02965	29326	13	02962	20416	52	61765	22268	23	02754	22325
334	--	02645	28216							--	65647	24388
340	74	02954	32225	16	01963	32324	57	02854	18216	74	02954	22315
136	16	02854	22325	14	02761	25213	04	01790	12211	03	05690	22227
336	10	01765	24315	10	01763	28413				52	02754	20417
350	17	02754	23325	77	02764	20126	50	05673	24213	57	02763	20327
368	24	02863	24315	83	01863	24314	80	25744	22184	9-	02834	24186
379	54	05654	00024	84	01854	24224	03	01890	26214	50	02735	20325
390	7-	02765	00025	5-	85667	14127	50	05563	20223	53	02790	20325
382	77	02866	26127	83	02854	24325	54	01764	23114	57	02854	21226
438	4-	05658	18128	83	02644	24316	5-	08438	23428			
430	17	02752	20328	50	01764	20314	5-	02764	26126	3-	82745	20285
409	13	01951	26312	14	01953	26315	8-	25845	20388	36	81924	25387

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 6th July.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather. Morning	Weather. Afternoon	Weather. Night
Kew ...	c2o	cpr c2o	c2o c
Croydon	cm.	cm. cpr.	bc dbc
Greenwich ...	c	cy	cp b c
Camden Square	c	c	*
Kensington ...	cbcc	cbc	*
Hampstead ...	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 2 hours ended 9h. Max. Time 01 7-10h 6th. Min. Time 40.1 Rest of period

Stations.	Temperature. Day Max °F	Temperature. Night Min °F	Min on grass °F	Rainfall. Day mm	Rainfall. Night mm	Sunshine to sunset hrs	Humidity. 15h %	Humidity. 9h %
				Yesterday				To-day
Kew ...	70	55	45	Tr	-	1·3	*	*
Croydon	68	52	47	Tr	-	0·7	*	*
Greenwich	70	53	44	-	Tr	0·8	59	60
Westminster	69	55	49	-	-		71	69
Regents Park	69	55	51	-	-		57	65
Camden Square	71	54	48	-	-	*	*	67
Kensington	71	54	47	-	-		78	66
Hampstead	68	51	45	-	-		*	82

SECRET

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BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 7th July 1943 — No. 29812

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	06·4	−4	W'S	2	fair	57	92	54	6	8	7	–	9	9+	2500
	Croydon ...	07·6	+10	W	3	PR.	63	65	51	7	8	–	–	7-8	10	1500
	S. Farnborough	06·2	0	W	3	fair	60	92	58	8	8	7	3	7-8	9	2000
	Boscombe Down	07·0	−6	W'S	4	c/pr	63	65	53	9	8	–	3	4-6	7-8	2000
	Thorney Island	07·6	−20	SW	5	c/pr	66	65	53	9	2	–	3	7-8	7-8	2500
	Lympne ...	07·0	−18	SW	5	c/pr	62	85	59	8	2	5	–	4-6	7-8	1500
	Manston ...	07·0	−4	SW	5	c/pr	64	65	51	8	8	7	5	7-8	9	2000
2	Shoeburyness ...	00·7	−6	SSW	4	c	67	75	59	7	3	9	–	7-8	9+	2500
	Felixstowe ...	05·4	−18	S	5	c	65	75	57	8	8	7	–	4-6	9+	2800
	Gorleston ...	05·1	−14	SW	3	c/pr	67	45	45	7	2	7	–	7-8	7-8	1500
	Mildenhall ...	04·7	−14	WSW	4	c/pr	70	65	57	8	2	3	8	7-8	9+	3500
	Cranwell ...	04·0	−10	SW	3	c/pr	53	85	48	7	3	–	–	7-8	7-8	2500
3	Birmingham ...	04·0	−10	NNE	3	fair	64	45	43	8	3	–	–	7-8	7-8	2500
	Upper Heyford	04·9	−14	SW	4	bc	65	55	48	8	2	6	–	4-6	4-6	3500
4	Ross-on-Wye	05·1	−14	W	4	bc	64	55	45	9	2	–	3	4-6	4-6	3500
5	Hartland Point	07·8	0	WNW	4	bc	53	75	50	8	3	–	–	4-6	4-6	1500
	Bristol ...	07·1	−8	W	4	bc	64	65	52	8	2	–	–	4-6	4-6	8600
	Portland Bill ...	08·8	−6	SW	4	c	61	85	48	8	2	4	–	4-6	9	4000
	Plymouth ...	09·4	−2	W	4	c/pr	62	65	51	9	8	–	–	7-8	7-8	2500
	The Lizard ...	09·7	0	WNW	5	c-bc	64	65	53	8	8	6	–	4-6	7-8	2500
	Scilly (St. Mary's)	10·7	+3	WNW	4	c-bc	65	65	50	8	8	6	–	4-6	7-8	1500
	Guernsey ...															
6	Pembroke ...	07·2	−6	W	5	bc	55	75	47	8	8	2	–	2-3	4-6	2500
7	Holyhead (Valley)	04·6	−6	W'S	4	c/pr	54	85	50	8	8	6	–	4-6	9	2000
	Chester (Sealand)	04·0	−16	NNW	3	fair	62	65	51	8	3	–	3	9	9+	3000
8	Manchester ...	03·9	−6	WSW	4	c/pr	57	85	52	8	3	6	8	4-6	7-8	2500
10	Spurn Head ...	03·2	−16	SW	2	c-bc	63	65	50	7	2	4	–	4-6	7-8	1500
	Catterick (Sc.) ...	02·0	−12	WSW	3	c/pr	57	65	47	8	3	6	–	4-6	9	2500
	Tynemouth ...	03·3	−12	NNW	2	fair	52	92	50	7	8	–	–	9+	9+	2200
11	St. Abbs Head	02·6	−10	ESE	3	c	55	85	51	6	5	7	–	7-8	9+	3000
	Leuchars ...	02·0	−4	ENE	2	fair	53	92	51	6	8	–	–	4-6	10	600
12	Renfrew (Abbotsl.)	03·4	+4	NNE	3	fair	53	85	50	7	5	2	–	4-6	10	1000
	Eskdalemuir ...	00·9	−4	SW	3	c-bc/pr	57	75	48	8	5	–	–	7-8	7-8	1500
	Point of Ayre ...	02·7	−2	NNW	3	pr	57	75	50	8	8	7	–	4-6	4-6	3000
13A	Tiree	05·3	+8	N	4	bc	58	65	48	9	8	7	2	2-3	4-6	2500
13B	Stornoway ...	05·3	0	W	2	c	56	65	46	9	7	3	–	9	9+	2500
15	Dalwhinnie ...	04·2	0	N	1	pr	49	85	45	7	5	–	–	10	10	1500
	Aberdeen ...	04·4	−6	ENE	2	c	55	85	49	9	2	1	3	2-3	9	2500
	Wick ...	05·5	−2	NE	2	c-bc	54	75	45	9	8	6	–	4-6	7-8	4500
16	Sumburgh ...	03·6	−2	W	3	c-bc	56	85	50	9	2	–	2	2-3	7-8	1400
17	Blacksod Point	09·0	+8	NW	3	bc	58	75	50	8	8	–	–	4-6	4-6	2500
18	Malin Head ...	04·9	+6	N	4	c-bc	56	75	48	8	8	–	–	7-8	7-8	1500
	Aldergrove ...	03·3	+8	NW	4	c/pr	55	75	47	8	8	2	–	7-8	9+	2500
19	Birr Castle ...	06·9	+2	NW	2	pr	54	85	49	8	3	7	–	4-6	9	1500
20	Valentia Obsy.	11·1	+4	NW	5	bc/pr	59	75	51	8	3	–	3	4-6	4-6	2500
	Roches Point	07·3	−6	NW	5	c/pr	61	75	53	9	3	–	3	4-6	4-6	1500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of ground. 0–9 (31)	Sea. 0–9 (32)
04·3	−6	W'S	4	b-bc	67	45	42	8	8	–	3	2-3	2-3	2500	1	*
05·4	−10	WSW	4	b-bc	66	35	37	8	3	6	3	2-3	2-3	2500	0	*
05·0	−6	W'N	4	b-bc	66	35	40	8	2	6	3	1	2-3	2500	1	*
06·2	−4	W'N	3	bc	62	55	45	9	2	6	3	4-6	4-6	3000	0	*
06·7	−6	WSW	3	bc/pr	61	85	55	9	8	7	3	4-6	4-6	2500	1	*
05·6	−6	SW	4	b-bc c-bc/pr	63	65	49	8	2	6	–	2-3	2-3	2200	0	4
04·7	−18	WSW	4	c-bc/pr	61	75	53	8	3	6	3	2-3	7-8	2500	1	*
05·4	−4	SW	2	bc	62	85	59	9	3	6	3	4-6	9	4000	1	*
03·6	−10	SW	4	t	62	85	58	8	9	7	–	4-6	7-8	2500	1	4
03·8	−4	SW'S	2	c/tlr	60	75	52	7	8	7	–	7-8	9+	1800	1	3
02·7	−6	SW	2	c-bc	64	75	54	8	2	6	3	4-6	7-8	2500	1	*
02·7	−8	WNW	4	c/pr	57	75	48	8	3	6	3	7-8	9+	3000	1	*
04·0	0	W	5	c	58	55	42	8	8	4	–	9	9	2500	1	*
03·4	−2	W'N	4	bc	64	45	44	9	3	6	3	4-6	4-6	3000	0	*
04·9	0	W	4	bc	62	45	42	9	3	–	1	4-6	4-6	3500	0	*
07·5	−2	WNW	4	bc	59	75	49	8	3	4	–	2-3	4-6	2500	1	4
06·9	−2	W	5	pr	61	75	53	8	3	6	–	4-6	4-6	4000	1	*
07·7	−4	W	4	bc	60	85	56	8	2	–	–	4-6	4-6	4000	1	4
09·3	0	WNW	4	bc	63	65	49	9	2	–	–	4-6	4-6	2500	0	2
08·7	+8	WNW	5	bc	61	65	50	8	2	–	3	4-6	4-6	3000	0	4
10·7	+2	WNW	5	bc	61	65	50	8	8	6	4	2-3	4-6	1500	0	4
07·1	−4	WNW	4	bc	58	85	52	8	8	2	–	2-3	4-6	2500	0	3
04·7	−2	WNW	5	c/pr	55	85	51	8	8	6	3	4-6	9+	1500	1	3
04·1	−2	WNW	4	pr c/pr	53	85	49	6	8	–	–	9+	9+	2000	1	*
03·1	−6	W'S	4	c/pr	52	85	48	8	9	6	3	9	10	2000	1	*
02·9	0	NW'N	2	c/pr	60	85	46	7	2	3	–	4-6	7-8	1500	0	2
01·1	−2	NE	2	c/pr	55	85	50	8	3	–	–	9	9	2000	1	*
02·4	−4	NE	2	c	54	85	50	7	8	–	–	9	9	2400	1	2
02·5	0	N	2	c	52	92	50	7	5	2	–	7-8	10	2500	1	3
03·4	+2	NE	1	c/pr	53	85	50	7	2	2	–	2-3	10	800	1	*
03·8	+6	NE	1	c/pr	52	85	49	8	8	2	–	9	9+	2000	1	*
01·0	0	N'W	1	c	52	75	46	8	5	2	–	4-6	10	1800	1	*
02·3	+6	N	5	c/pr	55	85	49	8	9	7	–	4-6	9+	2000	1	4
05·9	+2	NNW	4	b-bc	57	65	45	9	2	6	3	Tr	2-3	2500	0	4
05·7	+2	NNW	4	c	53	85	47	9	9	–	–	9	9	3200	1	1
	+6	NNE	2	pr	46	92	44	7	5	2	–	9	10	1500	1	*
03·7	−2	NE'N	2	c-bc	54	75	47	8	2	7	8	2-3	7-8	2500	0	2
04·8	−6	SE	2	c-bc	55	75	47	8	8	7	–	4-6	7-8	2500	0	*
03·3	−6	WNW	3	bc	56	75	49	9	2	4	1	2-3	4-6	1200	0	
10·2	+10	NNW	4	c	57	75	49	8	8	–	–	9	9	2500	1	3
06·3	+8	N'W	4	bc	55	65	43	8	8	–	1	2-3	4-6	1500	2	4
05·4	+16	NNW	4	c-bc	56	65	46	9	8	–	3	7-8	7-8	2500	1	*
07·2	+2	WNW	2	c	56	85	51	8	3	7	–	4-6	9	1600	1	*
11·6	+2	NW	4	c-bc/pr	59	75	51	8	2	6	–	2-3	2-3	2500	0	4
08·1	0	NW'N	5	bc	63	65	51	9	8	–	2	4-6	4-6	1500	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 6th (39)	13h.–18h. 6th (40)	18h. 6th to 1h. 7th (41)	1h.–7h. 7th (42)
thrr$_o$	q.prbc	bcyb	bw
ccjpct	cpr$_o$ bc	bcbbc	bc
bcc TLR c	cpr bcby	b	bbcwb
cdo bcpre	clc	bcbbcb	bbwbcwb
cproc	cpr$_o$cpr$_o$	b	bbcb
pcprmopR	cbc	bcb	b
bcy cpro	czopr$_o$tr	bcbvb	bcb
bcpr$_o$c	cprbc	bcb	bbc
bbcc	tlr cpret	bcb	bbc
cy	ctlr	bcl	bc
ccy	cy tlR	bcl pre	cbcc
ctlr	bccpr$_o$c	cbc	bc
bctpr	cpr$_o$bc	bcc	cir
cproc	bcy+pr$_o$	bcb	bbc
bccv	pbcvy	bc	b cbb
bccpr	bc	bclph	bcc
cprcbc	ir v bajpbc	bcmr$_o$bkbbwbwbcwbwb	
c	c	bcc	bcb
cbcpro	cbc	bqpr$_o$b	prc
cprbc	bc	cprbc	cppbc
c	cbc	bcpclbc	bccpbc
bc	cpr$_o$bq	cprtq	bc
bccpro	cpr$_o$	bcb	bbc
ctlPR	ctlpr$_o$	pr$_o$mopr	cm$_o$RR
tlcpr	tlrpr	cprm$_o$	cm$_o$
cdd	cpr	c	cpro
crorotlrc	cpr$_o$c	cpro cro	cbcc
ciromtl	c	roc	circ
crcm$_o$	cRrpr	crrcbc	bc
tlrcro	ro$_o$cir$_o$	cirocbc	bcpbc
cmorororrcro	cir$_o$r$_o$c	ccpr$_o$cm$_o$c	cbcb
cpro	cpr$_o$c	cpr cro	cbc
proc	cpro	cpr	prc
c	cbc	bbc	bccproc
c	cbccpr$_o$c	cbccproc	cbccproc
cpr	cpr		cpr$_o$c
		bcwc	cbcw
c	c	bcc	cbccpro
bcpro	bcv	bcrc	bcpr$_o$
bc	pr	bc	pr
pr	bc	bc	pr
cpr$_o$c	c	bbc	bcc
pr	pr	pr	pr
bc	bc	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 7th July 1943

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
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Light or moderate northwest wind; bright intervals; showers, local thunderstorms; cool.

16	Orkneys and Shetlands
17	N. W. Ireland
18	N. E. Ireland
19	S. E. Ireland
20	S. W. Ireland

As 1–15

GENERAL INFERENCE

A depression over the North Sea is moving slowly east; there will be showers in most districts with local thunderstorms.

FURTHER OUTLOOK

Occasional rain in the West; spreading slowly East.

Forecasts issued at 10·30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Wednesday 7th July. 1943.

10° 5°W. 0° 5°E 10°

60° 55° 50°

1000 1002 1004 1006 1008 1010

LOW

HIGH

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer ins.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud { Code figure (one figure) or hundreds of feet (two figures)

Scale 1 : 5,000,000.

Mb

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Wednesday 7th July

1943.

Clarke's Projection Scale 1 : 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 7th July 1943 — No. 29812

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	06·9	+2	SW	4	b	54									
	Croydon ...	290	06·9	+2	SW	4	b	53	85	48	8	5	–	–	Tr	Tr	3000
	S. Farnborough	226	06·4	0	NW	4	b	52	85	48	7	–	–	–	0	0	–
	Boscombe Down	417	07·4	+2	WSW	2	b	48	92	47	8	4	–	–	Tr	Tr	4000
	Thorney Island	10	07·4	-2	W	4	b	56	85	50	9	–	4	–	0	Tr	–
	Lympne ..	283	06·7	+2	W'S	3	b	50	85	46	8	–	4	–	0	Tr	–
	Manston ...	154	05·8	+2	SSW	2	b	51	85	46	7	–	6	–	0	1	–
2	Shoeburyness ...	11	05·1	+6	SW	4	b	55	85	49	7	–	–	1	0	Tr	–
	Felixstowe ...	12	03·3	-6	SSW	2	b-bc	52	85	46	7	5	–	–	2-3	2-3	1500
	Gorleston ...	5	03·6	+2	WSW	3	c	53	75	45	8	5	5	–	7-8	9	5000
	Mildenhall ...	15	03·1	+8	W	4	bc	51	85	49	8	5	–	–	4-6	4-6	2500
	Cranwell ...	203															
3	Birmingham ...	536	04·9	0	W	3	b	49	85	45	8	5	–	–	1	1	4000
	Upper Heyford	408															
4	Ross-on-Wye	223															
5	Hartland Point	299	05·4	+8	NNW	3	bc	56	75	49	8	3	4	–	2-3	4-6	2500
	Bristol ...	209	07·3	+2	WNW	3	b	50	97	49	8	4	–	–	1	1	4000
	Portland Bill ...	32	08·9	+6	W	4	cbc	58	85	54	8	5	–	–	7-8	7-8	4000
	Plymouth ...	86	09·6	-2	NW	3	b-bc	54	92	51	8	2	–	–	2-3	2-3	2500
	The Lizard ...	240	10·5	+12	NW	3	bc/pr	56	85	53	8	8	–	–	4-6	4-6	1500
	Scilly (St. Mary's)	163	10·9	-2	NNW	4	l	56	85	50	8	8	–	–	4-6	4-6	1600
	Guernsey ...	175															
6	Pembroke ...	142	05·4	+2	NW	3	cbc	54	85	50	8	8	–	–	7-8	7-8	2500
7	Holyhead (Valley)	32	07·2	+10	NW	4	b-bc	52	85	47	8	–	6	–	0	2-3	–
	Chester (Sealand)	16	04·4	+2	NNW	6	c	54	85	50	6	5	2	–	7-8	10	2000
8	Manchester ...	230	03·9	+6	NW	2	bc	49	97	48	7	4	–	–	4-8	4-6	2000
10	Spurn Head ...	29	02·8	-2	NNW	4	c	53	92	51	7	8	3	–	7-8	9+	1500
	Catterick (Sc.)...	192	02·6	+6	NW	3	ic	49	92	48	7	5	7	–	7-8	10	4400
	Tynemouth ...	108	02·5	+2	N	3	c	50	85	46	7	8	–	–	9+	9+	1500
11	St. Abbs Head	280	02·1	+2	N	5	bc	51	92	48	8	5	–	–	4-6	4-6	2500
	Leuchars ...	36	04·2	-6	–	0	c-bc	49	92	47	8	5	3	–	4-6	7-8	3500
12	Renfrew (Abbotsl.)	19	04·9	+2	SSW	1	c	49	92	47	7	5	7	–	7-8	9	2000
	Eskdalemuir ...	794															
	Point of Ayre...	30	06·4	+18	NW	4	c/pr	53	92	50	8	9	7	–	4-6	9+	2500
13A	Tiree	44	06·9	+4	NNW	2	bc/pr	50	75	46	9	4	–	1	2-3	2-3	2000
13B	Stornoway ...	12	06·6	+2	NNW	2	c/pr	48	97	47	8	8	–	–	7-8	7-8	1800
15	Dalwhinnie ...	1176															
	Aberdeen † ...	79	04·1	0	NNW	3	bc	46	92	44	8	3	4	3	1	4-6	3000
	Wick ...	114	05·2	+2	NW	2	cbc	46	92	44	9	8	–	–	7-8	7-8	5500
16	Sumburgh ..	19	03·3	0	NNW	2	c	51	92	49	8	7	–	–	9	9	1000
17	Blackwod Point	18	11·0	+2	NNW	2	bc	51	75	43	8	8	–	–	4-6	4-6	2500
18	Malin Head ...	84	06·8	-2	NW	4	cbc	53	75	45	8	8	–	–	7-8	7-8	1500
	Aldergrove ...	268	07·3	+2	WNW	1	cbc	49	92	46	8	8	–	6	2-3	7-8	2000
19	Birr Castle ...	173	12·0	-2	NW	2	b-bc	53	86	48	8	8	–	–	2-3	2-3	2500
20	Valentia Obsy.	30	10·8	+4	NNW	3	b-bc	53	85	49	8	5	–	–	2-3	2-3	2500
	Roches Point	22															

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount Low 0–10 (28)	Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
06·6	+6	NW	3	b-bc	55	75	44	8	8	4	–	1	2-3	4000	1	
07·5	+6	W	3	b-bc	56	65	45	8	3	4	3	2-3	2-3	2000	0	
07·1	+6	WNW	4	b	55	75	47	8	1	6	–	Tr	Tr	3000	1	
08·2	+6	WNW	3	b	55	75	47	7	2	4	–	Tr	Tr	4000	0	
07·9	+6	WNW	4	b	56	75	49	8	3	3	3	1	1	4000	1	
06·4	+2	WNW	3	b	58	65	49	8	1	–	5	Tr	Tr	2500	0	8
05·6	+2	NW	2	b-bc	57	85	51	8	3	–	5	2-3	2-3	2000	0	
06·2	+6	W	4	bc	57	75	48	7	1	5	–	2-3	4-6	2500	1	
04·8	+6	W'S	4	bc	56	85	50	8	7	3	–	2-3	4-6	4000	0	4
03·2	+6	WNW	4	bc	52	85	47	7	2	–	–	4-6	4-6	2500	0	3
04·8	+8	WSW	3	c	54	85	49	7	8	–	–	4-6	9+	2500	0	
04·6	+10	NW	3	bc	54	75	47	7	1	3	–	1	4-6	3000	0	
06·9	+8	S	4	cbc/r	51	85	46	7	8	7	–	7-8	7-8	1500	1	
06·0	+6	WNW	4	bc	53	75	45	8	5	3	–	4-6	4-6	3500	0	
07·7	+8	NW	3	b	55	65	45	8	8	–	1	1	1	3000	0	
10·3	+8	NNE	3	cbc	56	85	50	8	2	4	2	4-6	7-8	1400	1	3
08·5	+6	WNW	3	b	56	75	49	8	1	3	–	Tr	Tr	4000	0	
09·0	+6	W	3	bc	58	85	54	8	2	–	–	4-6	4-6	4000	1	3
10·2	+6	W'S	1	bc/pr	53	92	50	7	3	–	3	4-6	4-6	3000	1	
10·0	0	NW	3	bc	55	85	51	8	8	6	–	4-6	4-6	2500	1	3
10·7	+2	NW	3	bc	56	85	50	8	2	6	–	4-6	4-6	1500	1	3
10·0	+12	NW	2	b-bc	55	75	47	8	2	7	–	2-3	2-3	2500	0	3
07·9	+4	NNW	4	cbc	55	75	48	9	8	6	2	4-6	7-8	2000	1	3
06·3	+18	NNW	4	pr	52	85	49	6	9	–	–	9+	9+	2500	1	
06·9	+22	NW	2	2o	53	85	48	6	2	6	3	2-3	4-6	2500	1	
02·6	0	NW	6	c	53	85	48	7	8	2	–	4-6	9	1500	1	3
04·0	+10	NW	3	cbc	52	85	46	8	8	4	8	4-5	7-8	3500	0	
04·5	+14	NNW	4	cbc	50	85	45	7	8	–	–	7-8	7-8	2400	1	2
04·0	+2	N	5	cbc	52	85	48	8	5	4	–	4-6	7-8	3500	0	4
04·5	+2	NNW	3	cbc	52	85	48	9	5	3	–	4-6	7-8	5000	1	
05·7	+8	NW	3	b	54	85	48	8	8	4	2	Tr	1	2000	1	
05·0	0	NW	2	bc	51	75	45	8	1	7	–	1	4-6	2500	1	
06·2	+8	NNW	4	cbc	53	85	49	8	2	6	–	4-6	7-8	1600	1	4
07·1	+6	NW	3	cbc/pr	52	85	47	9	2	6	–	4-6	7-8	2000	1	2
06·8	-2	NNW	4	pr	52	85	48	8	8	3	–	4-6	9+	1800	1	1
05·5	+2	N	2	cbc	48	75	41	8	5	6	–	4-6	7-8	1500	1	
04·2	+2	NW	3	c	51	85	46	7	2	8	–	2-3	9	1900	0	1
04·5	-2	WNW	3	pr	51	92	49	9	8	–	–	9	9	2000	1	
02·0	-2	NW	3	cbc	53	85	49	8	5	–	–	7-8	7-8	4000	0	3
10·2	+2	WSW	2	cbc	51	92	49	8	5	–	–	7-8	7-8	2500	1	
12·6	+8	NNE	3	c/pr	53	85	48	9	8	–	–	9+	9+	4000	1	2
11·6	+6	NNW	3	b-bc	52	85	47	9	2	–	5	1	2-3	2500	0	3

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 6th Hrs. (38)
67	52	45	9	–	5·8
68	49	47	2	–	8·1
69	49	42	4	Tr	8·9
65	45	41	4	–	7·9
67	51	46	4	Tr	
65	48	44	3	–	9·5
66	48	46	3	–	8·4
67	52	46	3	–	6·3
69	51	47	2	3	8·7
70	49	44	3	1	6·7
70	49	47	9	0·1	9·1
67	48	46	1	0·4	7·1
65	49	46	1	1	10·1
68	47	37	Tr	–	
67	50	45	Tr	–	10·0
63	55	51	0·5	1	10·4
65	48	40	3	Tr	7·4
65	54		–	–	
65	48	38	3	0·5	10·2
64	50		0·5	2	11·1
65	52		–	9	10·6
61	51		Tr	0·5	10·3
62	43	45	1	Tr	
66	50	48	8	21	3·7
59	48	46	6	1	
65	52		0·5	0·1	6·0
63	48	44	2	0·6	2·6
56	50	48	8	3	
57	50		6	0·4	
54	47	38	14	0·1	0·6
53	44	38	6	1	0·0
58	41	34	0·6	1	3·2
61	52		0·6	1	
60	47	43	–	0·6	10·0
58	46	41	0·3	0·6	4·4
58	40	32	14	0·4	0·0
57	44	40	–	–	3·0
57	44	39	0·1	Tr	
60	50	43	Tr	Tr	
60	49		2	0·3	
58	47		3	0·6	6·4
60	46	42	1	0·1	4·5
62	43	38	5	1	6·6
61	49	42	1		12·0
64	51		2	–	

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 6th July ..... 18h. G.M.T. | 01h. G.M.T. 7th July ..... 07h. G.M.T.

IIIC$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN
109			83	02254	32215	8-	01944	28224	5-	25844	31587
115			84	02864	28125	57	02964	32226	87	02954	32527
203						76	02245	04225			
206	36	25857	06286	87	02855	00087	5-	02855	00025	70	01854	24124
210	36	02953	17126	86	02965	04227	8-	02856	32386	83	02953	26385
219	66	01964	28424	26	01964	28406	83	01953	32424	36	10964	32384
280	87	25955	00086	86	81966	01186	53	01852	28383	80	01854	00014
245	52	62743	06368	59	02842	06367	54	01951	29302	74	01973	30214
260	92	91634	04268	5-	05648	10328	53	43345	06428	53	02764	20425
278	92	02846	26427	96	81845	64486	36	01943	27484	26	02954	28325
279	37	81854	20385	37	81854	04225	57	02865	32386	84	02864	30225
285	37	81745	26387							74	01973	30214
288	55	20536	02158	27	82565	18297	62	67364	25268	17	05652	28425
575	3-	25855	28286	30	01864	30384	36	01764	26314	97	01864	28224
301	36	02945	57486	9-	82645	59586	70	01854	28584	84	02846	27327
321	3-	81756	26286	86	02753	24367	54	05663	26214	67	05690	30425
299	8-	02755	16415	8-	61747	22137	8-	02757	22227	80	62745	28465
292	87	25764	20286	86	81855	20387	3-	81666	28286	27	02862	27425
310	--	81628	24358							--	01644	32214
614	36	91754	24335	3-	25656	26426	2-	05654	24224	86	05663	28226

13h. G.M.T. 6th July ..... 18h. G.M.T. | 01h. G.M.T. 7th July ..... 07h. G.M.T.

IIIC$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN
338	26	25965	20426	26	02964	20426	80	01753	26213	24	02845	28326
334	--	25645	24386	--	25645	26286				--	01662	02219
340	36	02854	28325	36	02854	57326	87	02845	24328	3-	81748	24188
136	86	02864	28413	26	02855	00026	87	02745	20326	20	01754	28414
336	23	01754	24415	70	01754	24554						
860	27	02852	18425	26	02854	23426	40	01763	22313	87	02844	24316
368	20	01954	24514	8-	01855	26515	30	01762	24182	20	01753	28113
378	84	01854	18584	8-	02855	57415	50	01864	22314	54	01853	26314
390	32	93466	24398	36	01763	57494	00	00890	20310	17	02754	24315
382	86	25864	21384	86	00864	57514				53	01852	26313
438	8-	02744	20516	24	01753	22614	60	01753	24413			
430	10	01755	53436	30	02855	55525	50	01751	15111	50	01861	22211
409	26	01863	25413	20	02955	26415	8-	01854	26384	9-	89345	29117

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 282.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$ C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 7th July .....
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather. Morning	Weather. Afternoon	Weather. Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	thrro	qprbc	bcybw	Kew 24 hours ended 7h.
Croydon ...	ecjpct	cprabc	bc	Max. Time
Greenwich ...	cy	cpt lb	prbcy	60 1 whole
Camden Square ...	ber	c		Min. Time
Kensington ...	bcpcr	cptbc	*	of period
Hampstead ...	bcortl	bc	bc	

Stations.	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 % Yesterday	Humidity. 9h % To-day
Kew ...	67	52	45	9	–	5·8	*	*
Croydon ...	68	49	47	2	–	8·1	*	*
Greenwich ...	63	50	42	2	Tr	6·6	71	59
Westminster ...	66	52	47	·6			87	63
Regents Park ...	66	51	47	12	–		83	62
Camden Square ...	67	50	46	17	–	*	*	61
Kensington ...	67	50	45	13	–			63
Hampstead ...	65	47	44	10	–		*	78

SECRET

Page 1

THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 8th July 1943 — No. 29813

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	°F. Dew Point. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High. (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	07·7	+4	NW	3	c-bc	65	45	47	8	8	4	1	4-6	7-8	2500
	Croydon ...	08·7	+4	NW	4	c-bc	63	45	40	9	2	6	–	4-6	7-8	3000
	S. Farnborough	07·9	+4	WNW	4	c-bc	66	45	41	9	2	6	–	4-6	7-8	3000
	Boscombe Down	09·1	+6	NW'N	3	c-bc	65	35	40	8	2	–	2	7-8	7-8	2500
	Thorney Island	08·6	+4	W'N	4	c-bc	69	45	47	9	2	–	–	7-8	7-8	2500
	Lympne ...	07·4	+6	W	3	bc	67	45	45	8	2	–	–	4-6	4-6	2500
	Manston ...	06·9	+6	W'N	3	c-bc	62	55	47	8	3	6	3	2-3	7-8	2500
2	Shoeburyness ...	07·9	+2	WNW	3	c-bc	65	59	48	8	2	2	–	7-8	7-8	2500
	Felixstowe ...	06·6	+12	W'S	4	c-bc	62	65	50	8	8	3	–	9	9	2300
	Gorleston ...	05·3	+16	NW	3	c	59	55	44	7	8	–	–	9	9	2300
	Mildenhall ...	06·3	+10	NW	3	c	63	55	44	8	8	–	–	9+	9+	2500
	Cranwell ...	06·5	+10	N'W	3	c/p	61	55	45	7	3	–	–	9+	9+	2500
3	Birmingham ...	08·0	+4	NW	3	c/pr	54	75	46	8	8	–	–	9	9	1500
	Upper Heyford	07·3	+2	NW'W	4	c-bc	64	45	51	9	8	–	3	4-6	7-8	3000
4	Ross-on-Wye	08·6	+6	W'S	4	bc	64	45	52	9	8	–	1	2-3	4-6	4000
5	Hartland Point	11·0	+8	NW	3	bc	58	75	49	8	1	–	5	2-3	4-6	2500
	Bristol ...	09·3	+2	WNW	3	c-bc	65	55	50	9	2	6	–	4-6	7-8	4000
	Portland Bill ...	10·5	+4	W	3	bc	60	85	56	8	2	–	–	4-6	4-6	4000
	Plymouth ...	11·4	+12	NW'N	4	bc	62	55	46	9	2	–	2	4-6	4-6	3000
	The Lizard ...	11·0	+2	NW	4	bc	64	55	49	8	2	4	–	4-6	4-6	2500
	Scilly (St. Mary's)	12·5	+6	N'W	2	b-bc	63	65	50	9	8	6	3	2-3	2-3	1800
	Guernsey ...															
6	Pembroke ...	11·4	+4	WNW	2	c-bc	58	75	50	8	3	7	1	4-6	7-8	2500
7	Holyhead (Valley)	09·1	+6	NW	3	c	60	65	48	9	2	6	3	4-6	9+	2000
	Chester (Sealand)	07·7	+6	NNW	4	c-bc	59	55	45	8	2	–	2	4-6	7-8	2500
8	Manchester ...	07·6	+6	NW	3	pr	53	75	48	8	3	6	3	4-6	7-8	2500
10	Spurn Head ...	05·8	+14	N	4	c	59	65	48	8	2	7	–	4-6	9	2500
	Catterick (Sc.) ...	05·3	+4	N	3	c	61	55	44	9	8	6	–	7-8	9	3000
	Tynemouth ...	06·4	+8	NE	4	c-bc/pr	55	75	47	8	8	4	–	4-6	7-8	2400
11	St. Abbs Head	05·8	+6	NW	1	c	54	85	49	8	4	–		4-6	7-8	3500
	Leuchars ...	05·2	0	WNW	2	c-bc/pr	62	55	45	8	3	6	–	7-8	7-8	3000
12	Renfrew (Abbotsl.)	06·3	+2	WNW	3	c-bc	64	55	45	9	3	6	–	4-6	7-8	2500
	Eskdalemuir ...	05·3	+2	NW'W	3	c-bc	57	65	45	8	8	–	–	7-8	7-8	2200
	Point of Ayre ...	07·5	+6	NW'N	4	b	62	65	50	8	3	4	–	1	1	3000
13A	Tiree	05·2	+8	NW'N	2	bc	68	75	59	9	3	6	3	2-3	4-6	3000
13B	Stornoway ...	08·8	+10	N	2	pr	54	85	49	8	8	3	–	9	9+	2200
15	Dalwhinnie ...	07·0	+4	N	2	c	50	85	44	7	5	–	–	9+	9+	1500
	Aberdeen ...	04·7	+4	NNW	3	pr	55	85	50	8	8	–	–	4-6	9	2000
	Wick ...	06·1	+10	NW	5	c	54	65	44	9	8	–	–	9+	9+	2000
16	Sumburgh ...	03·7	+6	NW	4	c/pr	53	92	51	6	9	6	–	7-8	9	1500
17	Blacksod Point	12·9	+14	W'N	5	c-bc	59	75	51	8	8	–	–	7-8	7-8	2500
18	Malin Head ...	09·3	+12	N	4	bc/pr	56	75	48	8	2	–	–	4-6	4-6	1500
	Aldergrove ...	10·8	+6	NNW	3	c-bc	65	65	55	9	2	–	–	7-8	7-8	3000
19	Birr Castle ...	10·3	+2	NW	2	c-bc	57	75	49	8	3	7	–	2-3	7-8	1500
20	Valentia Obsy.	14·2	+6	NW'N	4	pr	57	75	49	8	3	–	–	7-8	7-8	2500
	Roches Point	12·1	+2	NNW	5	bc	59	75	51	9	3	–	3	4-6	4-6	1500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High. (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
08·0	+4	NNW	2	t	62	55	52	8	8	–	3	4-6	9	2500	1	*
08·4	0	NW	2	c-bc/p	63	45	52	8	3	6	3	4-6	7-8	1500	0	*
07·8	+2	NW'W	3	c-bc	66	35	39	9	2	6	6	2-3	7-8	3500	0	*
09·0	+2	NW'W	3	bc	63	45	41	9	2	–	2	2-3	4-6	4500	0	*
08·6	0	SW'W	4	c	63	65	42	9	9	–	3	7-8	7-8	3000	0	*
08·0	+4	WNW	2	c	61	65	50	8	2	–	3	7-8	9+	3000	0	§4
08·0	+6	SE'E	1	t	60	75	51	8	3	–	–	7-8	7-8	2000	0	*
08·4	+2	W	2	t/r.	62	55	47	8	3	–	–	9	9	1500	1	*
07·3	0	NNW	1	bc/pr	63	65	52	8	5	1	–	2-3	4-6	4000	1	2
06·6	+2	NNW	3	c-bc	61	65	47	7	8	7	–	4-6	7-8	1500	0	3
07·7	+6	NW'W	1	c	58	65	47	8	8	6	3	7-8	9+	2500	1	*
07·6	0	SSE	2	c/t/r.	55	85	50	7	3	9	3	4-6	9+	1500	1	*
08·3	+2	WNW	4	c	55	65	44	8	8	–	2	4-6	9	2500	1	*
07·7	+2	NW	3	c-bc	61	55	44	9	3	–	3	4-6	7-8	3000	0	*
09·1	+6	WNW	4	b-bc	60	55	42	9	8	–	3	2-3	2-3	4000	0	*
10·7	–6	WNW	3	bc	58	65	47	9	2	4	8	2-3	4-6	2500	0	3
09·6	+2	WN	4	bc	61	65	50	8	2	6	3	4-6	4-6	4000	0	*
09·7	–8	N	3	bc	62	85	59	8	2	–	–	4-6	4-6	4000	1	1
12·4	+8	NW'N	4	b-bc	62	55	44	9	1	–	2	1	2-3	3000	0	2
12·7	+6	NW	4	b-bc	60	65	46	8	2	4	–	2-3	4-6	3500	0	3
13·3	+4	NW'N	4	c-bc	63	55	47	9	8	6	–	4-6	7-8	1800	0	3
10·3	–2	WNW	4	c-bc/pr	58	75	50	8	7	6	–	4-6	7-8	2000	0	1
09·3	–2	W	3	b-bc	58	75	49	8	2	6	3	2-3	2-3	2000	1	2
08·2	+2	N	4	bc	59	55	44	9	3	–	3	2-3	4-6	2500	1	*
07·7	0	WNW	4	b-bc	59	55	45	8	2	–	3	2-3	2-3	2500	1	*
07·3	+8	NNE	2	c	56	75	49	7	3	7	–	4-6	9	1500	1	3
06·7	+2	NE	2	c	58	85	53	8	8	7	–	4-6	9+	2500	0	*
06·9	+4	NE	3	c	56	75	48	7	8	–	–	9+	9+	2400	1	3
06·0	+2	N	2	c	55	85	52	8	3	6	–	4-6	9	3500	0	3
06·0	+12	NW	1	pr	57	65	44	7	3	7	3	2-3	9+	1000	0	*
07·8	+10	WNW	2	pr	55	75	45	8	3	6	3	7-8	9	2000	1	*
07·8	0	NW	2	t/r.	55	75	47	6	9	–	–	9+	9+	1800	1	*
07·8	0	NW'N	4	b	60	75	51	8	3	4	8	1	1	2500	0	3
10·2	+6	N'W	3	c/pr	53	85	48	9	9	6	3	7-8	9+	1500	1	2
09·7	+6	NW	4	c	52	85	45	8	8	–	–	9+	9+	1800	1	3
07·5	+10	NNE	3	c	49	85	45	7	5	2	–	9	10	2500	1	*
06·4	+6	NNW	4	c	53	75	43	9	8	–	–	7-8	10	1500	0	2
07·2	+6	NW	4	t/r.	50	85	47	9	5	–	–	10	10	1000	1	*
04·0	+4	NNE	1	c-bc	54	85	48	8	8	6	3	7-8	7-8	1500	0	2
14·2	+4	N	5	c	57	75	49	8	8	–	4	4-6	9	2500	1	4
10·7	+10	N'W	5	c-bc	56	75	48	8	2	–	6	4-6	7-8	1500	1	4
09·9	+10	NW'N	4	bc	58	65	47	9	3	–	6	4-6	4-6	3000	1	*
10·9	+6	WNW	2	bc	58	65	46	8	2	–	–	4-6	4-6	1500	1	*
15·2	+4	N'W	5	bc	59	75	51	9	8	–	–	4-6	4-6	2500	1	3
11·6	–4	N'W	5	bc	62	65	50	9	3	–	3	4-6	4-6	1500	1	3

PAST 24 HOURS.

Weather. 7h.—13h. 7th. (39)	12h.—18h. 7th. (40)	18h. 7th to 1h. 8th (41)	1h.–7h. 8th. (42)
bcbcy	cprcpryrtc	prccbc	bcercebc
eyepricy	cyprrtlrbetbc	bccprbc
beybcy	beycprcrybcybbc	bcc
bbcy	bcycybcbcybccprbcc	cbc
	cybcyycrprob	bcprocbc
cy	cybcyprcrprrtlrb	bbcc
bbcycyc	cbcycprcrtlrcbc	ccmb
bccjprc	cbcycprcrtlrcbc	ccmb
bcprcy	ctlr c	ctlr	c
bcc	ctlcprbcbc	bccmb
bccy	bcc	bcc	cprbbcc
cbccy	cyc trbcc	cprbbccmb	cmbcmb
	tcctlR	ctlrbcbmb	bmbcmb
bcc			
cbc	cbcc	c	cpr
bccyv	cprcyv	rvlbc	bccbcv
bbcvy	bcbcy	bcctb	bwbcc
bc	bc	bbcprobc	bc
bcbcvy	bcbcybcbccprbcpr	bccbc
bcbcc	c	c	c
bccbc	bcbcyv	cpr	cproc
prbccy	bc	prbc	bcprc
cprcybc	bccy	bcpcyc	cp
bcc	cprq	bc	bcc
cjp	cbcc	bcbbc	bcproc
prprbc	cbcy	bcytlprb	tlpre
bccmbprb	prbpft	tlrbpr	clbcmb
prbc	prc	c	c
c	c	clcjp	cjprbc
cprbc	c	cptlc	c
bc	bcprc	c	cbc
bccprbcy	cycprcrbprbcyc	bcrcv
bbccbprbc	bcprcprbrbprbcbcc	cbbc
bcc	crtlr	c	cbcprb
cb	b	cprbbc	bc
bc	cpr	c	cprbc
ccprb	cprbc	ccprb	cprbc
	cpro		oprbc
bc	c	c	c
bc	bc	pr	c
pr	cbcybc	bccprb	bccbc
pr	pr	pr	pr
pr	pr	pr	c.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 8th July 1943.

Districts.	
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands	Light or moderate northwest winds backing later; thundery showers or thunderstorms at first; fair later; cool.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England	Light or moderate northwest wind backing south; bright intervals and local showers at first; rain spreading from west later; cool.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1-4
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	As 7-8
16 Orkneys and Shetlands 17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 7-8

GENERAL INFERENCE

A feeble ridge of high pressure will move east across the British Isles followed by troughs of low pressure; there will be thundery showers or thunderstorms at first in the East, followed by a short fair interval, weather will be fair at first in the West, but rain will occur later.

FURTHER OUTLOOK

Rain in the west of the British Isles spreading east, followed by bright intervals and showers.

Forecasts issued at 10.30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Thursday 8th July 1943.

10° 5°W. 60° 55° 50°

1008 1006 1004 1002 1000 998 996 994 992 990 988 986 984 982 980 978 976 974 972 970 968 966 964 962 960 958 956 954 952 950 948 946 944 942 940 938 936 934 932 930 928 926 924 922 920 918 916 914 912 910 908 906 904 902 900 898 896 894 892 890 888 886 884 882 880 878 876 874 872 870 868 866 864 862 860 858 856 854 852 850 848 846 844 842 840 838 836 834 832 830 828 826 824 822 820 818 816 814 812 810 808 806 804 802 800 798 796 794 792 790 788 786 784 782 780 778 776 774 772 770 768 766 764 762 760 758 756 754 752 750 748 746 744 742 740 738 736 734 732 730 728 726 724 722 720 718 716 714 712 710 708 706 704 702 700 698 696 694 692 690 688 686 684 682 680 678 676 674 672 670 668 666 664 662 660 658 656 654 652 650 648 646 644 642 640 638 636 634 632 630 628 626 624 622 620 618 616 614 612 610 608 606 604 602 600 598 596 594 592 590 588 586 584 582 580 578 576 574 572 570 568 566 564 562 560 558 556 554 552 550 548 546 544 542 540 538 536 534 532 530 528 526 524 522 520 518 516 514 512 510 508 506 504 502 500 498 496 494 492 490 488 486 484 482 480 478 476 474 472 470 468 466 464 462 460 458 456 454 452 450 448 446 444 442 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402 400 398 396 394 392 390 388 386 384 382 380 378 376 374 372 370 368 366 364 362 360 358 356 354 352 350 348 346 344 342 340 338 336 334 332 330 328 326 324 322 320 318 316 314 312 310 308 306 304 302 300 298 296 294 292 290 288 286 284 282 280 278 276 274 272 270 268 266 264 262 260 258 256 254 252 250 248 246 244 242 240 238 236 234 232 230 228 226 224 222 220 218 216 214 212 210 208 206 204 202 200 198 196 194 192 190 188 186 184 182 180 178 176 174 172 170 168 166 164 162 160 158 156 154 152 150 148 146 144 142 140 138 136 134 132 130 128 126 124 122 120 118 116 114 112 110 108 106 104 102 100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0

1010 1012 1014 1016 1018 1020

LOW

HIGH

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Scale 1 : 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Thursday, 8th July

1943.

Clarke's Projection Scale 1 : 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1020 3 1621 4 800 1028

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 8th July 1943 — No. 29813.

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)	°F Dew Point. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	54									
	Croydon ...	290	10·4	-6	N'N	1	b	49	85	46	6	4	–	–	1	1	3000
	S. Farnborough	226	10·1	+2	W	1	b-bc	49	85	45	8	5	–	–	2-3	2-3	4000
	Boscombe Down	417	10·3	-6	–	c	c/pr	50	92	47	7	3	7	–	2-3	7-8	3000
	Thorney Island	10	10·3	-2	WNW	2	bc	51	85	47	8	–	3	–	0	4-6	–
	Lympne ..	283	09·8	-8	NW'N	1	b	48	92	46	7	–	–	–	0	0	–
	Manston ...	154	09·0	-6	NSW	1	b-bc	49	92	46	7	–	6	3	0	2-3	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	08·8	-2	W	1	b-bc	54	85	50	7	2	–	–	2-3	2-3	2500
	Gorleston ...	5	08·2	0	N'N	2	c-bc	53	85	47	7	5	–	–	7-8	7-8	1500
	Mildenhall ...	15	08·7	0	W	1	Z_o	50	97	49	6	5	–	–	7-8	7-8	5000
	Cranwell ...	203	08·4	-2	W	3	Z_o	47	97	46	6	4	–	–	2-3	2-3	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·3	0	W	1	c-bc	49	85	45	8	1	–	3	7-8	7-8	5800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	11·4	+6	NNW	4	bc	55	85	51	8	2	4	–	2-3	4-6	2500
	Bristol ...	209	10·4	-2	W	1	c/pr	51	97	50	7	9	6	3	4-6	7-8	2500
	Portland Bill ...	32	11·2	0	W	4	c	57	85	53	8	5	–	–	10	10	4000
	Plymouth ...	86	12·6	0	NW'N	2	c/pr	53	92	51	8	8	–	–	7-8	7-8	4000
	The Lizard ...	240	12·9	0	NW	4	bc	55	85	49	8	2	–	–	4-6	4-6	1500
	Scilly (St. Mary's)	163	14·1	-2	NW'N	4	c/pr	56	85	49	8	8	6	–	4-6	7-8	1800
	Guernsey ...	175															
6	Pembroke ...	142	12·1	+6	NNW	3	b-bc	54	75	47	8	4	4	–	2-3	2-3	2500
7	Holyhead (Valley)	32	10·9	+4	NW	3	bc	54	85	50	9	4	4	–	4-6	4-6	2000
	Chester (Sealand)	16	08·7	-2	NNW	2	c/pr	52	75	46	6	8	2	–	4-6	7-8	3000
8	Manchester ...	230	08·8	-2	SW'S	3	c/pr	48	87	48	7	9	–	–	9	9	3200
10	Spurn Head ...	29	07·9	0	WSW	3	c	53	85	50	7	7	3	–	4-6	9	2500
	Catterick (Sc)...	192	08·0	+2	NW	1	c/p	48	87	46	6	8	6	–	7-8	9+	2500
	Tynemouth ...	108	08·4	+2	NW	3	c-bc	50	92	47	6	2	–	–	7-8	7-8	2500
11	St. Abbs Head	280	07·4	+2	WNW	3	c	52	92	50	7	5	7	–	7-8	9+	2500
	Leuchars ...	36	08·2	+2	NSW	1	c	52	85	46	8	5	–	–	9+	9+	2000
12	Renfrew (Abbotsl.)	19	08·0	+2	WNW	2	c-bc	49	92	46	8	5	–	–	7-8	7-8	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	09·2	0	N	4	bc	54	85	50	8	8	4	–	2-3	4-6	1800
13A	Tiree	44	11·5	0	NNW	4	c	51	75	44	9	5	3	–	1	3	2000
13B	Stornoway ...	12	10·5	0	NNW	4	pr	50	92	48	7	8	–	–	9+	9+	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	07·0	-8	WNW	4	c-bc	46	85	42	9	5	4	–	7-8	7-8	2500
	Wick ...	114	06·7	-6	NW	3	c/pr	50	87	43	8	8	–	–	2-3	9	1000
16	Sumburgh ..	19	04·5	-2	N'W	2	pr	51	97	49	8	8	–	–	2-3	9+	1000
17	Blacksod Point	18	16·0	+2	N'W	4	c	53	75	45	8	5	–	–	9+	9+	2500
18	Malin Head ...	84	12·0	0	NW	4	pR	52	75	44	8	8	–	–	7-8	7-8	1500
	Aldergrove ...	268	12·0	+6	NNW	2	bc/pr	55	85	49	8	8	–	–	4-6	4-6	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	17·3	+2	NNW	5	c-bc	55	75	47	8	8	–	–	7-8	7-8	2500
	Roches Point	22	15·4	+6	NNW	5	bc	53	85	49	8	5	–	–	4-6	4-6	1500

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

District	Stations	Barom at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	°F Dew Point. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	09·8	+4	NW	2	bc	55	75	46	7	5	3	1	4-6	4-6	2500	1	*
	Croydon ...	10·6	+2	W'N	3	c-bc	54	75	46	6	5	3	3	1	7-8	2000	1	*
	S. Farnborough	10·0	+2	NE'N	2	bc	55	75	47	8	1	8	8	1	4-6	2000	0	*
	Boscombe Down	10·9	+4	NW'N	3	bc	55	75	46	7	8	7	2	2-3	4-6	4000	0	*
	Thorney Island	10·5	+2	NNW	2	bc	56	85	50	8	8	7	4	1	4-6	2500	0	*
	Lympne ..	09·4	0	NW'N	2	Z_o	53	85	49	5	–	3	–	0	9	–	1	2
	Manston ...	08·9	0	NW'N	2	Z_o	55	85	49	6	–	7	9	0	9+	–	1	*
2	Shoeburyness ...	09·7	+4	NW	2	Z_o	55	75	49	6	–	3	–	0	7-8	–	0	*
	Felixstowe ...	08·6	+4	NNW	3	Z_o	52	92	50	6	5	–	–	9+	9+	5700	0	3
	Gorleston ...	07·9	-2	NW	2	bc	54	85	49	7	5	3	–	2-3	4-6	1800	0	2
	Mildenhall ...	08·7	+2	NNW	3	Z_o	53	92	51	6	5	4	–	Tr	1	4000	0	*
	Cranwell ...	09·1	+10	NNW	3	Z_o	51	85	48	5	5	3	–	4-6	9+	2500	1	*
3	Birmingham ...	10·1	+4	NNW	4	c	50	85	45	7	8	6	–	4-6	9	2500	1	1
	Upper Heyford	09·6	+6	NW'N	3	c-bc	51	75	44	9	7	6	3	4-6	7-8	4000	0	*
4	Ross-on-Wye	11·0	+4	N'S	1	c-bc	51	85	46	8	8	–	–	7-8	7-8	3000	0	*
5	Hartland Point	13·1	+12	NNW	4	c	55	85	49	8	2	4	–	7-8	9+	2200	0	3
	Bristol ...	11·4	+6	WNW	3	bc	56	85	50	8	1	4	3	4-6	4-6	4000	1	*
	Portland Bill ...	11·2	+6	NW	4	c-bc	55	85	51	8	2	4	–	4-6	7-8	4000	1	4
	Plymouth ...	13·7	+8	NW'N	3	bc	55	85	51	8	8	3	–	4-6	4-6	2000	1	1
	The Lizard ...	14·4	+12	NNW	4	c	56	85	50	8	8	2	–	7-8	9+	1500	1	3
	Scilly (St. Mary's)	15·4	+10	NW'N	5	c/pr	53	85	48	8	8	6	3	7-8	9+	1400	1	4
	Guernsey ...																	
6	Pembroke ...	13·8	+6	NNW	3	c-bc	53	85	50	8	8	–	–	7-8	7-8	2400	0	
7	Holyhead (Valley)	11·9	+6	NW'N	4	c	54	85	48	8	2	3	–	4-6	9+	2000	1	3
	Chester (Sealand)	10·1	+18	N	3	c/pr	51	85	47	7	8	–	–	9+	9+	2000	1	*
8	Manchester ...	10·0	+12	NNW	2	rn	50	87	49	4	3	6	3	2-3	7-8	3000	1	*
10	Spurn Head ...	08·4	+6	NNW	3	c	53	92	52	7	8	7	–	4-6	9+	1500	1	3
	Catterick (Sc)...	08·9	+6	NW	1	pr	53	75	47	7	8	3	–	7-8	7-8	3000	1	*
	Tynemouth ...	09·3	+8	NNW	2	c	52	85	48	7	5	–	–	9+	9+	2400	1	2
11	St. Abbs Head	07·7	0	W	3	c-bc	52	85	46	8	5	4	–	4-6	7-8	3500	0	3
	Leuchars ...	09·7	+20	W	3	c	53	68	42	9	3	7	8	4-6	9+	3000	0	*
12	Renfrew (Abbotsl.)	09·6	+6	NNW	3	bc	52	75	46	9	8	4	–	2-3	4-6	2500	1	*
	Eskdalemuir ...	08·5	+4	N	2	bc	52	75	44	8	7	4	1	2-3	4-6	2500	0	*
	Point of Ayre...	10·5	+8	NW	5	c-bc	56	75	47	8	8	4	–	2-3	7-8	2000	0	4
13A	Tiree	11·7	+4	NW	3	c	52	75	45	9	8	–	–	9	9	2000	1	2
13B	Stornoway ...	09·9	-4	NNW	3	c/pr	52	92	49	7	8	6	–	7-8	9	1500	1	2
15	Dalwhinnie ...	09·0	0	NW	3	c	47	75	40	8	5	–	–	9+	9+	1500	1	*
	Aberdeen † ...	06·9	+2	NNW	3	c-bc/pr	52	85	47	8	8	3	–	2-3	7-8	1500	1	2
	Wick ...	07·6	+4	NW	4	c	52	85	48	8	8	7	–	4-6	9	3000	1	*
16	Sumburgh ..	05·5	+6	NNW	4	c/pr	52	92	49	8	8	–	–	4-6	9+	1200	1	3
17	Blacksod Point	16·1	0	NW'N	3	c	55	75	47	8	8	–	–	9+	9+	2500	1	3
18	Malin Head ...	12·0	+2	NNW	5	c	54	65	43	8	8	–	–	9	9	1500	1	4
	Aldergrove ...	12·6	+2	NW	2	bc	51	75	45	9	8	7	–	4-6	4-6	2500	1	*
19	Birr Castle ...	15·0	+10	NW	3	c	53	85	48	8	5	1	–	7-8	9+	2500	1	*
20	Valentia Obsy.	17·6	+2	NNW	3	c/pr	54	75	46	8	8	–	5	7-8	9+	2500	1	3
	Roches Point	16·3	+6	NW	3	c-bc	54	85	49	8	5	3	–	4-6	7-8	1500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F.	Min. Night 18h–7h °F	Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Night 18h–7h mm.	Sunshine 7th Hrs.
1	London (Kew)	67	51	41	0·3	0·3	8·5
	Croydon ...	68	49	43	Tr	1	10·4
	S. Farnborough	69	49	39	1	–	12·4
	Boscombe Down	68	47	46	–	1	13·7
	Thorney Island	70	50	45	–	Tr	*
	Lympne ..	69	45	40	Tr	3	10·1
	Manston ...	66	46	43	Tr	3	9·2
2	Shoeburyness ...	70	48	42	0·3	0·4	10·2
	Felixstowe ...	67	50	46	3	0·2	8·4
	Gorleston ...	63	49	45	–	0·2	11·4
	Mildenhall ...	64	45	40	1	0·1	6·3
	Cranwell ...	63	45	42	10	5	6·6
3	Birmingham ...	61	47	43	2	0·6	3·3
	Upper Heyford	66	47	36	0·1	Tr	*
4	Ross-on-Wye	66	45	35	–	Tr	11·9
5	Hartland Point	60	54	51	–	Tr	12·5
	Bristol ...	67	47	41	–	1	13·5
	Portland Bill ...	62	53	*	–	–	*
	Plymouth ...	65	50	43	–	2	12·8
	The Lizard ...	65	50	*	0·5	1	11·8
	Scilly (St. Mary's)	65	53	*	0·2	2	12·7
	Guernsey ...						
6	Pembroke ...	59	51	*	0·4	Tr	8·6
7	Holyhead (Valley)	61	50	45	–	Tr	*
	Chester (Sealand)	61	51	46	4	11	11·7
8	Manchester ...	61	45	40	1	2	*
10	Spurn Head ...	61	53	*	0·4	0·6	5·2
	Catterick (Sc)...	63	48	47	4	1	4·9
	Tynemouth ...	57	49	43	Tr	2	*
11	St. Abbs Head	60	50	*	Tr	–	*
	Leuchars ...	63	47	40	0·2	0·1	3·8
12	Renfrew (Abbotsl.)	64	42	37	1	0·1	8·8
	Eskdalemuir ...	61	45	41	2	0·1	7·3
	Point of Ayre...	63	52	*	–	–	12·4
13A	Tiree	59	48	46	5	0·2	9·9
13B	Stornoway ...	59	49	47	5	0·5	3·1
15	Dalwhinnie ...	56	43	39	3	Tr	2·1
	Aberdeen † ...	59	47	43	0·3	Tr	3·4
	Wick ...	55	48	45	0·1	2	*
16	Sumburgh ..	55	50	47	Tr	0·3	3·0
17	Blacksod Point	60	51	*	1	0·6	*
18	Malin Head ...	57	49		0·3	1	10·7
	Aldergrove ...	62	48	37	0·1	0·1	11·2
19	Birr Castle ...	62	47	45	2	0·1	8·3
20	Valentia Obsy.	61	51	49	1	1	9·8
	Roches Point	63	52		4	0·4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 7th July — 18h. G.M.T. — 01h. G.M.T. 8th July — 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109 83	02955	28326	52	02845	28527	84	02744	30324	52	51845	32468
115 52	81844	28527	52	02844	28427	52	81735	28488	52	02844	30386
203						5-	81848	28488			
206 26	81855	26287	86	02856	30387	5-	02866	28126	57	02855	00067
210 86	02953	31425	8-	02957	29427	8-	25857	24387	83	02855	27327
219 8-	02955	31525	86	02955	31526	8-	81748	30588	26	10954	28482
280 86	01964	27315	86	02964	26425	8-	02956	28326	86	02965	26225
245 86	25956	30287	86	02966	29387	53	01952	28223	86	25955	28287
260 24	01853	24124	86	25854	04285	57	02754	04226	54	02744	12225
278 86	01954	61424	36	02954	60585	86	01953	61514	86	02944	61427
279 86	01854	22385	36	28868	18396	87	02865	02295	74	01863	28324
285 23	02955	28416									
288 86	05664	01326	36	81745	00057	86	05665	29186	57	05664	26117
575 33	02955	30286				96	02754	26325	57	61846	28187
301 2-	01844	26414	30	01954	26414	26	01853	31293	97	05655	63396
321 86	02955	28227	86	02755	30286	04	05690	00012	63	05574	30227
298 24	01754	28415	34	01754	30215	50	01754	24114			
302 36	10854	24326	86	02854	32185	40	02763	28185	5-	25666	28186
310 --	01635	26315									
614 86	05655	26326	26	02754	26225	30	05662	24112	43	05564	30124

13h. G.M.T. 7th July — 18h. G.M.T. — 01h. G.M.T. 8th July — 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
388 2-	02856	28326	27	02952	24385	26	25853	28183	23	02844	28486
336 --	02646	26317							--	53547	24288
340 3-	80844	30125	3-	82655	22186	36	02855	24315	57	62745	30287
136 86	02755	26426	97	81744	01257	26	22674	23386	5-	05535	253-5
386 13	01753	24514							23	25654	284--
350 26	02745	26425	37	02854	26326	4-	01764	22124			
368 20	01954	26415	20	01954	26414	50	01754	28284	84	02854	31165
379 2-	02855	26316	20	25854	61485	53	02865	23115	57	01864	28314
390 87	02755	24427	36	29756	00057	50	05661	00011	53	05690	26226
382 26	01954	30315	36	25954	30383	4-	02866	00016	17	01851	26324
438 20	01753	22513	87	01754	23814	40	01753	30313	1		
430 20	01854	25414	3-	25854	21494	40	01763	26213	40	01773	20125
409 16	01953	29314	16	01963	27313	3-	02855	25325	9-	81844	30486

IIIC$_L$C$_M$ = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 8th July

Day 7h–18h Kew and Croydon, 9h–18h Kensington 9h–21h other stations except for rainfall which is 9h–18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew ...	bcebcy	cprcpryte	cprcbc	Kew 24 hours ended 7h. Max Time 0·1 6-7h 8th Min Time 0·1 Rest of Period
Croydon ...	cycp rcy	cyprcljp	bcbcpcbc	
Greenwich ...	cy	bcy cpj	ctcbcc	
Camden Square	c	bc	*	
Kensington ...	cbc	bcptbc	*	
Hampstead ...	bcctl	bcptl		

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	67	51	41	0·3	0·3	8·5	*	*
Croydon ...	68	49	43	Tr	1	10·4	*	*
Greenwich ...	69	49	35	Tr	–	9·9	32	60
Westminster ...	69	52	46	0·6			50	63
Regents Park ...	67	51	45	1·0	–		34	67
Camden Square ...	69	51	43	–	0·3	*	*	63
Kensington ...	69	51	41	0·5	0·1		37	65
Hampstead ...	68	63	40	0·1	Tr		*	*

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 9th July 1943 — No. 29814

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	10.8	+6	NW	3	pr	58	65	46	7	8	3	3	7-8	9	2500
	Croydon ...	11.3	+2	W'NW	2	c-bc	62	45	43	8	3	6	3	4-6	7-8	2000
	S. Farnborough	10.8	+2	NW'N	3	c-bc	56	65	43	8	2	6	-	4-6	7-8	3000
	Boscombe Down	12.7	+14	NW	3	pr	58	75	49	7	8	4	3	4-6	7-8	2000
	Thorney Island	11.0	+2	WNW	5	c/bc	62	65	49	9	2	6	3	4-6	7-8	1500
	Lympne ...	10.7	+10	WNW	4	pr	60	65	46	7	3	6	3	7-8	9+	2000
	Manston ...	09.5	+2	NW	5	c	62	65	48	8	3	6	3	7-8	9	3000
2	Shoeburyness ...	10.6	+2	NW	2	bc	65	55	50	8	2	6	-	4-6	4-6	2500
	Felixstowe ...	09.4	+2	W	1	c	66	55	50	8	8	-	-	7-8	9	2500
	Gorleston ...	09.5	+12	N'E	4	c-bc/pr	57	75	48	7	8	-	-	7-8	7-8	1400
	Mildenhall ...	10.1	+10	NW'W	4	c/tkr	57	65	47	7	3	6	-	9+	9+	2500
	Cranwell ...	09.9	+4	NW'N	3	c	62	65	48	8	2	3	3	4-6	9	2000
3	Birmingham ...	11.7	+8	NW	4	c-bc	57	55	41	8	8	6	-	4-6	7-8	2500
	Upper Heyford	10.9	+6	NW'N	4	c	59	55	43	8	2	6	-	7-8	9	3000
4	Ross-on-Wye	12.1	+4	NW	3	c/pr	61	55	45	9	8	-	-	9	9	4000
5	Hartland Point	15.3	+10	NW	4	bc	56	75	46	8	2	-	-	4-6	4-6	2000
	Bristol ...	12.6	+6	NNW	4	c	62	65	49	9	3	6	-	9	9+	2500
	Portland Bill ...	12.9	+6	WNW	4	c-bc	62	85	59	8	2	4	-	4-6	7-8	4000
	Plymouth ...	15.9	+10	NNW	4	pr	58	75	50	8	8	6	-	7-8	9	2500
	The Lizard ...	16.0	+10	NW	5	bc	60	65	48	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	17.6	+6	WNW	4	c-bc	64	55	47	8	8	4	4	4-6	7-8	1800
	Guernsey ...															
6	Pembroke ...	15.8	+10	NW	4	c-bc	58	75	48	8	8	4	-	4-6	7-8	2500
7	Holyhead (Valley)	14.1	+6	NNW	5	c	60	65	48	8	8	6	-	7-8	9	3000
	Chester (Sealand)	12.4	+10	NNW	5	c/tkr	57	65	45	8	8	6	-	4-6	9	2000
8	Manchester ...	11.8	+10	WNW	4	c	56	75	48	9	2	6	-	4-6	9	2500
10	Spurn Head ...	10.0	+6	ENE	3	c-bc	58	75	50	7	2	3	-	4-6	7-8	1500
	Catterick (Sc)...	09.1	+2	NNW	3	c	62	55	43	8	8	-	-	9	9	3000
	Tynemouth ...	10.0	+8	NE	4	c	57	75	48	7	8	-	-	9	9	2400
11	St. Abbs Head	08.6	+2	WNW	3	c-bc/pr	57	75	48	8	5	6	-	4-6	7-8	2600
	Leuchars ...	08.7	+6	W	2	pr	56	75	50	7	8	6	3	7-8	9+	2500
12	Renfrew (Abbotsl.)	10.2	+2	WNW	4	c-bc	63	55	47	9	8	-	-	7-8	7-8	2000
	Eskdalemuir ...	09.8	+2	NW'W	2	c	55	65	44	8	5	-	-	9+	9+	3300
	Point of Ayre...	12.0	+6	NNW	5	c-bc	60	65	46	8	1	3	-	Tr	7-8	2500
13A	Tiree	12.5	+4	NW	3	c-bc	56	75	46	9	8	7	-	4-6	7-8	3000
13B	Stornoway ...	10.6	+2	NW	2	c	56	75	46	8	8	-	-	9+	9+	2500
15	Dalwhinnie ...	10.5	0	N	2	c	52	85	47	8	5	-	-	9	9	2500
	Aberdeen ...	08.6	+10	NNW	4	c	58	65	46	9	8	3	-	7-8	9+	2500
	Wick ...	09.1	+10	NW	4	c	56	75	48	8	5	-	-	9	9	3500
16	Sumburgh ...	06.6	+6	NNW	4	c	53	75	46	8	5	-	-	9+	9+	2000
17	Blacksod Point	15.8	-6	W'S	3	c	59	65	47	8	8	-	-	10	10	2500
18	Malin Head ...	13.2	+2	NW'W	3	c/pr	56	75	48	8	8	-	-	9+	9+	1500
	Aldergrove ...	13.3	+2	W'N	3	c	58	65	47	9	8	-	1	7-8	9	2500
19	Birr Castle ...	15.6	+2	NW	2	c	59	75	51	8	5	1	-	7-8	9+	2500
20	Valentia Obsy.	18.6	+2	W'N	3	c/pr	57	65	45	9	8	1	-	9	10	2500
	Roches Point	17.1	+2	N	4	c-bc	63	65	51	9	3	-	-	4-6	7-8	1500

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	12.1	+6	NW	2	bc	62	55	46	7	8	-	-	4-6	4-6	2500	1	*
	Croydon ...	12.9	+6	W	2	bc/pr	60	65	49	7	8	6	-	4-6	4-6	2000	0	*
	S. Farnborough	12.3	+10	E'S	2	c/pr	60	75	51	8	8	6	-	7-8	9	2500	1	*
	Boscombe Down	13.4	+6	NNW	3	bc	60	55	44	8	8	-	-	4-6	4-6	4000	0	*
	Thorney Island	12.5	+4	WNW	4	bc	64	55	46	9	9	6	3	4-6	4-6	3000	0	*
	Lympne ...	12.3	+12	WSW	2	c	67	85	62	7	2	6	-	2-3	9+	3000	1	§ 2
	Manston ...	10.8	+2	NW'N	2	c	60	65	49	8	2	6	3	4-6	9+	4000	1	*
2	Shoeburyness ...	12.1	+10	NW'N	2	bc	61	65	49	7	2	6	3	2-3	4-6	2500	1	*
	Felixstowe ...	10.8	+8	E'N	3	pr	59	75	52	8	8	-	-	4-6	9	4000	1	2
	Gorleston ...	10.7	+4	NNE	2	bc	60	85	56	7	8	-	-	4-6	4-6	2000	0	2
	Mildenhall ...	11.6	+10	N'N	2	c/pr	55	85	50	8	9	-	-	4-6	9+	2500	1	*
	Cranwell ...	11.3	+12	SE	3	c/pr	53	92	51	7	3	-	-	9	9	1500	1	*
3	Birmingham ...	12.8	+8	WNW	4	bc	59	55	43	8	8	6	-	4-6	4-6	2500	0	*
	Upper Heyford	12.2	+10	WNW	4	bc	61	45	30	9	2	6	-	2-3	4-6	3500	0	*
4	Ross-on-Wye	13.3	+6	NNW	3	c-bc	60	55	44	9	8	-	-	7-8	7-8	3500	0	*
5	Hartland Point	15.9	0	WNW	4	c-bc/pr	58	75	48	9	2	4	1	2-3	7-8	2000	0	#
	Bristol ...	13.7	+2	NW	4	b-bc	62	55	47	9	2	6	-	2-3	2-3	2500	0	*
	Portland Bill ...	14.5	+12	W	4	c-bc	60	85	56	8	2	-	-	7-8	7-8	4000	1	3
	Plymouth ...	17.5	+12	NW	5	c-bc	59	85	54	8	2	3	1	4-6	7-8	2500	0	2
	The Lizard ...	17.1	+2	NW	4	bc	60	65	48	8	8	4	-	4-6	4-6	2500	0	3
	Scilly (St. Mary's)	18.2	+2	WNW	4	c-bc	61	65	48	8	8	4	4	4-6	7-8	1600	1	4
	Guernsey ...																	
6	Pembroke ...	16.3	+2	NW	3	c/bc/jp	57	97	56	9	8	4	-	4-6	7-8	2500	0	3
7	Holyhead (Valley)	14.3	0	W'N	3	c	58	75	49	9	8	3	6	1	9	3500	1	3
	Chester (Sealand)	12.9	0	NW	4	bc	59	55	44	9	7	-	2	2-3	4-6	3000	1	*
8	Manchester ...	12.3	+4	WNW	4	c	59	55	44	8	2	6	3	2-3	9	2500	0	*
10	Spurn Head ...	11.2	-4	SSE	3	c-bc	57	75	50	7	7	3	-	4-6	7-8	2700	0	3
	Catterick (Sc)...	10.6	+8	NNE	2	pr	57	75	49	6	8	6	-	7-8	9	1500	1	*
	Tynemouth ...	10.7	+4	-	0	bc/pr	58	75	49	7	2	-	-	4-6	4-6	2400	1	3
11	St. Abbs Head	09.2	+2	WNW	2	bc	60	75	50	8	5	4	-	4-6	4-6	3500	0	2
	Leuchars ...	09.1	-4	W'N	2	c/pr	59	75	50	9	8	6	-	9	9+	2500	1	*
12	Renfrew (Abbotsl.)	10.3	+2	WNW	4	c	59	65	47	8	1	4	6	1	9+	2500	0	*
	Eskdalemuir ...	09.8	0	WNW	3	bc	58	55	43	8	8	8	2	4-6	4-6	3200	1	*
	Point of Ayre...	12.3	0	NNW	4	c-bc	59	65	48	8	1	4	2	Tr	7-8	3000	0	4
13A	Tiree	12.1	-6	WNW	3	c	55	75	47	9	2	7	8	Tr	9+	2500	0	2
13B	Stornoway ...	10.5	-2	WSW	3	c	57	65	46	8	8	7	6	4-6	9	3500	1	1
15	Dalwhinnie ...	10.5	+4	NNW	3	c	53	75	45	8	5	-	6	7-8	9+	2500	1	*
	Aberdeen ...	09.0	+4	NNW	3	c-bc	58	65	46	8	7	3	-	4-6	7-8	2500	0	2
	Wick ...	09.2	+2	NW	2	c-bc	55	65	47	9	8	-	-	7-8	7-8	3000	0	*
16	Sumburgh ...	07.4	+2	NW	4	c	51	75	45	8	5	-	-	10	10	1800	0	3
17	Blacksod Point	13.8	-14	SW'S	3	r.r.	55	85	51	8	6	2	-	4-6	10	1500	1	3
18	Malin Head ...	12.6	-14	W	3	c/pr	55	75	49	8	8	-	-	9	9	1500	1	3
	Aldergrove ...	13.0	-6	NW	2	c/pr	57	75	47	9	8	-	-	4-6	9+	2500	1	*
19	Birr Castle ...	14.8	-8	WNW	2	c	61	55	45	8	2	1	-	2-3	10	1500	1	*
20	Valentia Obsy.	16.8	-16	SSW	3	r.	55	85	51	8	5	7	-	2-3	10	1500	0	2
	Roches Point	16.3	-10	NNW	3	c	62	65	50	9	8	-	5	4-6	9	1500	1	2

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 8th (39)	Weather. 12h.—18h. 8th (40)	Weather. 18h. 8th to 1h. 9th (41)	Weather. 1h.—7h. 9th (42)
1	London (Kew)	bccpr.	qprtlbcbccy		ccm.
	Croydon ...	cpr. bcy	bccprspr bc2. cb2.		bz.bcc
	S. Farnborough	ccybc	bcycpr.c bcbbc		bcpir.
	Boscombe Down	bccpr.c	cpr.cbc bcybcb		bc idoc
	Thorney Island	bcpr.c	cpr.cbc bcybcb		b,c
	Lympne ...	c.zph pr.	phtlRc cbcbm.		bm.bcm.
	Manston ...	cm.cbcjp	cyprc vprtlb		bb cbm.
2	Shoeburyness ...	cprbcy	tl Rhc bc		bc
	Felixstowe ...	bcm.cy	cpr. cbcb		bbcc
	Gorleston ...	bcyphc	bc bcb		bcc
	Mildenhall ...	brn.b,tsn.	cpr. cpr.bm.		b,c
	Cranwell ...	cm.cpr.c	cpr.m.c cpr.cbcm.		bcm.bc.
3	Birmingham ...	cbcc	cbc bc		bcc
	Upper Heyford	bcc	cybcy bcybcv		bcc
4	Ross-on-Wye	bbccvpr.	cvy cvc		ccro
5	Hartland Point	cprbc	bcv bcc		ir.ro.rc
	Bristol ...	bccpr.	bcvcv bcycvcc m.		cm.o.rr.rc
	Portland Bill ...	c	c c		c
	Plymouth ...	cc pr.	cpr.cbc cbc		cdodo
	The Lizard ...	cprbc	bcc bc bccpr		oddfd
	Scilly (St. Mary's)	cy	c cbcc		cdodoc
	Guernsey ...				
6	Pembroke ...	cbc	bccpr c		Oro.m.
7	Holyhead (Valley)	cpr.	cbcc cro.ro.		cro.m.
	Chester (Sealand)	cpr.	cbcy bcybz.		cm.ro.
8	Manchester ...	cmbcm.	c cprbc bcc m.		cm.ir.
10	Spurn Head ...	pr.c	c bcm.		cm.
	Catterick (Sc)...	c	cry c		rir.
	Tynemouth ...	c	c ctrbc		cpr.cm.
11	St. Abbs Head	cbbprc	cprdb c		cbc
	Leuchars ...	ccprc.yc	tprc prvroc		cro.cdo.dom.
12	Renfrew (Abbotsl.)	bccy	cybcycy ccm.o.ro.ro		cm.rrido.
	Eskdalemuir ...	bcc	cprebc bccvc		cro.m.
	Point of Ayre...	bcc	bcc c		cro.ro.
13A	Tiree	cbcc	c cro.ro.rr.ro.ro		cro.ro.c
13B	Stornoway ...	cc pr.c	c r		cro.ro.m.cd.o.dom.
15	Dalwhinnie ...	cpr	cpr •		cpr.
	Aberdeen ...	bcc pr.c	cbcc cbcproc		cidoiro
	Wick ...	c	bc bcc		cro.ro.
16	Sumburgh ...	id.o.c	c cb		c
17	Blacksod Point	c	r d		c
18	Malin Head ...	pr	pr r		r
	Aldergrove ...	bccpr.c	ccpr.c cir.o.cir.o.		ro.ro.do.dc.l.
19	Birr Castle ...	·pr	c •		r
20	Valentia Obsy.	pr	r r		pr
	Roches Point	c	c pr		dl

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 9th July 1943

Districts	
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands 5 S.W. England	Moderate southwest wind veering west to northwest; rain at first; bright intervals and local showers later; 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 13A W. Scotland ... 13B N.W. Scotland	Moderate or fresh west to northwest winds backing later; bright intervals; showers; local thunder; cool.
14 Mid Scotland 15 N.E. Scotland	Moderate South wind veering west to northwest fresh, backing later, rain at first; bright intervals and showers later with local thunder; cool.
16 Orkneys and Shetlands	As 6-13B.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	

GENERAL INFERENCE

A trough of low pressure over the British Isles is moving east, and a ridge of high pressure is approaching Ireland from the Atlantic; there will be rain at first over most of Great Britain, followed by frequent showers in the North, and local showers in the South.

FURTHER OUTLOOK

Bright intervals and showers at first; rain later in the West, spreading east but amounts in the South probably small.

Forecasts issued at 10.30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday 9th July. 1943.

10° 5°W. 0° 5°E 10°

60° 55° 50°

998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018

LOW

HIGH HIGH

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud (hundreds of feet (two figures))

Code figure (one figure)

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

5°E Scale 1 5,000,000

Mb 1050 1040 1030 1020 1010 1000 990 980 970 960 950 940 930

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Friday 9th July

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 9th July 1943 — No. 29814

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	54	*	*	*	*	*	*	*	*	*
	Croydon ...	290	16·4	+14	W'S	2	b	50	75	48	7	–	4	–	0	Tr	–
	S. Farnborough	226	16·2	+12	WNW	2	b-bc	49	86	45	8	5	7	–	1	2-3	5700
	Boscombe Down	417	16·7	+10	W'N	1	bc	48	85	45	8	–	7	2	0	4-6	–
	Thorney Island	10	16·1	+10	WNW	3	bc	53	75	46	9	–	3	2	0	4-6	–
	Lympne ..	283	15·5	+10	NW	2	b	49	92	47	6	–	–	–	0	0	–
	Manston ...	154	14·6	+10	WSW	1	b	49	85	45	7	2	–	–	Tr	Tr	3000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	13·6	0	W'S	3	b	53	85	50	7	–	–	–	0	0	–
	Gorleston ...	5	12·7	+6	W	2	b	50	92	47	7	–	–	–	0	0	–
	Mildenhall ...	15	13·8	+4	N'S	3	b	48	92	45	7	–	–	–	0	0	–
	Cranwell ...	203	14·0	+10	NNW	1	c	51	82	50	6	5	–	–	4-6	9	2500
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	15·3	+10	WSW	1	bc	49	85	45	8	–	–	6	0	4-6	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·4	-4	WNW	4	c	57	85	51	8	5	–	–	7-8	9	2500
	Bristol ...	209	16·5	+2	W	1	Zo	53	92	50	6	5	7	3	2-3	7-8	4000
	Portland Bill ...	32	16·9	+8	W	4	c-bc	57	85	53	8	5	–	–	7-8	7-8	4000
	Plymouth ...	86	18·7	+2	W	2	c	56	85	50	8	5	1	–	2-3	10	3500
	The Lizard ...	240	18·2	0	NW	3	pr	56	85	47	8	5	–	–	9+	9+	1500
	Scilly (St. Mary's)	163	18·6	-2	SW'W	3	c	57	85	51	8	5	2	–	7-8	10	1500
	Guernsey ...	175															
6	Pembroke ...	142	16·5	0	W	4	c	57	85	53	8	8	2	–	7-8	9+	2500
7	Holyhead (Valley)	32	19·3	-6	SW'S	3	ic	55	92	53	7	5	2	–	2-3	10	3000
	Chester (Sealand)	16	13·8	-10	N	1	c-bc	53	75	47	6	5	7	–	4-6	7-8	2000
8	Manchester ...	230	13·6	0	SW	3	Zo	49	92	47	6	–	4	6	0	9	–
10	Spurn Head ...	29	12·5	+4	WNW	4	bc	55	85	48	6	7	6	–	2-3	4-6	1500
	Catterick (Sc.) ...	192	12·3	+2	WSW	1	c-bc	48	85	44	7	5	–	6	1	7-8	3000
	Tynemouth ...	108	11·2	0	NW	3	b-bc	52	75	45	7	–	3	–	0	2-3	–
11	St. Abbs Head	280	09·6	+2	W	3	c	53	85	47	7	5	–	–	9+	9+	4000
	Leuchars ...	36	09·3	-6	W	2	c	50	97	49	8	5	3	–	2-3	9+	3000
12	Renfrew (Abbotsl.)	19	10·3	-4	WSW	2	c-bc	52	85	48	6	5	2	–	7-8	10	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	12·5	-2	WNW	3	c	55	85	49	8	6	2	–	2-3	10	4000
13A	Tiree	44	08·2	-26	S	4	c-bc	52	97	51	7	5	2	–	2-3	10	800
13B	Stornoway ...	12	07·1	-22	S	4	c-bc	50	97	50	6	5	2	–	7-8	10	3500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	08·9	-8	WSW	1	c	49	92	47	8	8	7	–	7-8	9	3000
	Wick ...	114	08·5	-6	WSW	1	c	47	92	45	8	8	6	6	4-6	9	2000
16	Sumburgh ...	19	06·2	-10	NW	1	c	48	85	44	8	5	–	–	1	10	2000
17	Blacksod Point	18	11·0	+2	WSW	5	dd	55	92	53	6	6	2	–	4-6	10	1500
18	Malin Head ...	84	07·9	-30	S	3	rr	51	92	49	8	–	2	–	10	10	1500
	Aldergrove ...	268	11·2	-18	S'E	1	ic	51	92	48	7	5	2	–	9+	10	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	14·7	-6	N'N	4	o/c	58	97	55	6	5	–	–	10	10	800
	Roches Point	22	14·1	-24	SW	3	dd	55	97	55	6	5	–	–	10	10	450

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	15·6	+2	SSW	2	Zo	56	75	48	6	5	7	–	7-8	10	2500	1	*
	Croydon ...	16·5	+2	S	2	c	56	75	47	7	–	7	–	0	9+	–	0	*
	S. Farnborough	16·1	-2	SW'W	3	ic	55	86	49	8	5	7	–	4-6	9+	2500	1	*
	Boscombe Down	16·4	-2	SW	2	ic	55	86	50	8	5	7	–	1	9+	4000	0	*
	Thorney Island	16·6	-2	WSW	2	c	57	85	52	8	2	7	–	2-3	9+	4000	0	*
	Lympne ..	16·2	+2	WNW	1	bc	57	75	46	7	–	3	6	0	4-6	–	1	*
	Manston ...	16·9	+8	SW'W	2	c-bc	55	75	48	7	–	4	8	0	7-8	–	1	*
2	Shoeburyness ...	16·0	+4	W	2	bc	47	75	39	7	–	3	–	0	4-6	–	1	*
	Felixstowe ...	14·8	+6	W	2	c	54	85	50	7	–	3	6	0	9	–	0	2
	Gorleston ...	13·7	+2	W'N	3	c-bc	55	75	47	7	–	–	2	0	7-8	–	0	
	Mildenhall ...	14·4	-2	SW'W	3	Zo	53	85	49	6	–	7	8	0	9	–	1	*
	Cranwell ...	13·2	-2	WSW	4	Zo	54	85	50	6	–	7	7	0	9+	–	1	*
3	Birmingham ...	13·6	-6	SSW	3	c	53	85	49	8	–	7	–	0	9+	–	0	*
	Upper Heyford	14·8	-6	SW	2	c	53	85	48	7	5	9	–	Tr	10	1500	0	*
4	Ross-on-Wye	13·9	-14	SW'S	3	ic	55	92	52	7	6	2	–	4-6	10	2000	1	*
5	Hartland Point	12·8	-14	SW	4	c/c	55	97	55	6	6	2	–	7-8	10	600	1	4
	Bristol ...	15·5	+2	S	2	c/r	54	97	53	8	2	7	–	Tr	10	2500	1	*
	Portland Bill ...	16·2	-4	SW	4	c	58	85	54	8	5	–	–	10	10	4000	1	4
	Plymouth ...	16·6	-10	SW'W	3	do-do	57	97	57	5	5	2	–	9+	10	200	1	1
	The Lizard ...	16·4	-18	NSW	5	d/c	59	97	59	3	5	–	–	10	10	400	1	4
	Scilly (St. Mary's)	15·8	-6	W	5	c/d	59	97	59	7	5	–	–	9+	9+	600	1	4
	Guernsey ...																	
6	Pembroke ...	12·2	-24	NW	4	o/r	58	97	58	6	5	–	–	10	10	1000	1	3
7	Holyhead (Valley)	10·4	-20	SSW	4	do-do	54	97	54	6	6	2	–	9+	10	600	1	2
	Chester (Sealand)	11·8	-10	SSW	1	c	54	85	51	6	5	2	–	7-8	10	1500	1	*
8	Manchester ...	12·3	-8	SSW	3	c/r	53	92	51	8	5	2	–	7-8	10	1500	1	*
10	Spurn Head ...	12·4	+2	NSW	4	c	55	85	51	7	7	3	–	4-6	9	1500	0	3
	Catterick (Sc.) ...	10·5	-8	SSE	1	ic	51	97	50	7	5	7	–	4-6	10	1800	0	*
	Tynemouth ...	11·9	-8	SW	2	m/pr	52	85	47	4	–	–	–	10	10	<150	1	3
11	St. Abbs Head	07·6	-10	SW	3	c/r	50	97	49	7	5	2	–	7-8	10	1800	1	3
	Leuchars ...	07·9	-8	SSW	3	do-do	51	92	49	5	5	2	–	10	10	1500	1	*
12	Renfrew (Abbotsl.)	06·9	-14	S	2	ido	53	92	51	6	5	2	–	9	10	1200	1	*
	Eskdalemuir ...	08·0	-22	SSW	3	c/o	50	97	49	6	6	2	–	4-6	10	200	1	*
	Point of Ayre ...	08·6	-20	W'S	4	c/r	54	97	53	7	6	7	–	4-6	10	800	1	3
13A	Tiree	07·0	+10	NW	4	c	54	85	49	8	5	7	–	4-6	9+	1200	1	3
13B	Stornoway ...	04·0	-2	NW	5	c/d	53	97	52	8	5	2	9	7-8	9	1500	1	3
15	Dalwhinnie ...	05·0	-12	SSW	3	o	48	92	45	7	5	–	–	10	10	1500	1	*
	Aberdeen † ...	06·2	-12	SSW	1	ic	52	85	48	8	5	7	–	4-6	9+	4000	1	1
	Wick ...	05·2	-20	SSW	3	c-bc	51	92	49	8	5	2	–	4-6	9+	3000	1	*
16	Sumburgh ...	04·6	-6	SSW	3	c	52	85	48	8	2	3	8	2-3	9+	1200	0	2
17	Blacksod Point	13·6	+14	NW'N	4	c	54	75	46	7	6	–	–	9+	9+	2500	1	3
18	Malin Head ...	08·3	+18	NW'N	5	c	55	75	47	8	8	–	–	9	9	1500	1	4
	Aldergrove ...	09·2	+2	NSW	3	c	54	85	50	8	5	1	–	7-8	10	1000	1	*
19	Birr Castle ...	12·6	+16	NNW	2	c	56	85	51	8	5	2	–	7-8	10	2500	0	*
20	Valentia Obsy.	16·3	+14	NW'N	4	c/pr	56	85	51	8	8	–	–	9+	9+	2500	1	4
	Roches Point	14·5	+14	NNW	5	c-bc	57	85	53	8	8	–	5	4-6	7-8	1500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 8th Hrs. (38)
1	London (Kew)	62	49	36	1	–	3·7
	Croydon ...	63	48	43	3	–	10·4
	S. Farnborough	66	45	35	1	0·1	6·3
	Boscombe Down	63	47	43	1	Tr	9·8
	Thorney Island	67	48	43	Tr	–	*
	Lympne ..	69	44	41	11	–	4·9
	Manston ...	66	47	43	Tr	0·4	7·4
2	Shoeburyness ...	66	47	*	6	–	5·6
	Felixstowe ...	69	49	46	0·4	0·5	5·5
	Gorleston ...	62	48	42	0·1	–	7·2
	Mildenhall ...	65	45	40	2	1	8·0
	Cranwell ...	65	47	44	1	Tr	5·3
3	Birmingham ...	61	50	42	–	–	7·9
	Upper Heyford	65	47	34	–	–	*
4	Ross-on-Wye	64	51	45	Tr	0·4	6·2
5	Hartland Point	58	54	53	Tr	1	7·9
	Bristol ...	65	49	38	Tr	1	9·6
	Portland Bill ...	62	54	*	–	–	*
	Plymouth ...	63	52	48	0·1	2	9·7
	The Lizard ...	62	54	*	3	1	9·4
	Scilly (St. Mary's)	65	56	*	–	1	6·4
	Guernsey ...						
6	Pembroke ...	60	54	*	Tr	2	5·0
7	Holyhead (Valley)	62	52	51	Tr	3	*
	Chester (Sealand)	60	53	45	Tr	0·2	7·4
8	Manchester ...	60	48	48	0·4	0·3	*
10	Spurn Head ...	59	53	*	10	–	4·0
	Catterick (Sc.) ...	64	47	44	0·1	0·2	4·3
	Tynemouth ...	60	51	49	2	1	*
11	St. Abbs Head	60	49	*	Tr	0·5	*
	Leuchars ...	65	49	48	2	2	4·6
12	Renfrew (Abbotsl.)	63	51	45	–	2	12·2
	Eskdalemuir ...	60	45	38	Tr	1	7·5
	Point of Ayre ...	63	51	*	–	0·5	7·5
13A	Tiree	58	51	49	Tr	5	5·3
13B	Stornoway ...	59	50	48	1	6	2·7
15	Dalwhinnie ...	56	45	41	6	2	1·3
	Aberdeen † ...	62	51	44	Tr	1	5·5
	Wick ...	58	46	40	Tr	1	*
16	Sumburgh ...	55	46	36	Tr	–	*
17	Blacksod Point	60	52	*	0·4	2	*
18	Malin Head ...	59	50		0·5	3	
	Aldergrove ...	60	50	39	0·1	4	4·8
19	Birr Castle ...	63	52	51	0·2	1	3·2
20	Valentia Obsy.	59	53	52	0·2	4	2·5
	Roches Point	64	54		–	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 8th July	18h. G.M.T.	01h. G.M.T. 9th July	07h. G.M.T.
IIIC$_L$C$_M$ wwVhN$_h$	DDFWN	C$_L$C$_M$ wwVhN$_h$	DDFWN	C$_L$C$_M$ wwVhN$_h$	DDFWN	C$_L$C$_M$ wwVhN$_h$	DDFWN
109 53 02855	25526	5- 02846	31326	57 02845	20326	5- 62648	17368
118 52 02944	32226	52 02944	32227			52 62635	20368
203 5- 02847	32187						
206 86 02966	26287	86 02966	22287	52 51854	00057	57 02855	00067
210 86 02953	28225	26 02954	32185	57 02864	20287	57 02951	16268
219 26 01963	27314	57 10954	24227	62 62636	18468	27 02941	28667
230 8- 02966	28427	81 02964	24327	52 64744	19268	5- 52745	18168
245 36 02963	29287	86 25956	16287	83 02955	00087	07 62890	20168
260 77 02854	22325	8- 25744	12285	5- 05558	12428	52 02754	12465
278 26 10953	x xx	1- 02953	28327	52 61844	18268	52 52627	20368
279 8- 02955	30327			51 61865	18286	62 64526	18368
285 23 02854	26516					57 51635	24558
288 36 02865	61486			54 08464	18286	52 61762	17328
5758 8- 81845	28388	7- 02848	26228	62 62645	16268	57 02856	27327
301 8- 81758	26328	10 01962	28383	52 02744	23328	62 62644	21468
321 9- 28658	20158	8- 28755	12185	5- 62648	16268		
299 80 01754	30214	80 01743	24113	50 01745	24215	51 02754	22216
292 96 95855	25386	06 01854	00095	50 05653	22283	57 62644	16168
310						-- 81428	20328
614 16 03654	28125	36 02764	28325	54 05653	26224	52 61565	18228

13h. G.M.T. 8th July	18h. G.M.T.	01h. G.M.T. 9th July	07h. G.M.T.
IIIC$_L$C$_M$ wwVhN$_h$	DDFWN	C$_L$C$_M$ wwVhN$_h$	DDFWN	C$_L$C$_M$ wwVhN$_h$	DDFWN	C$_L$C$_M$ wwVhN$_h$	DDFWN
385 23 01964	26484	53 25855	23317	52 62854	20268	62 58414	20468
334		-- 02653	26215			-- 53647	26328
340 86 02945	30426	76 01853	28324			57 51855	18358
136 26 02854	28285	5- 25967	25297	4- 05663	26123	09 05690	20327
336 13 02753	28417	14 01753	28414			52 21656	20358
350 86 81755	10855	26 02754	30325	40 01773	22213	57 05662	20227
368 83 02854	26286	86 02854	26315	8- 25756	24386	5- 22748	22368
379 70 01854	28485	86 02853	28316	50 01861	22214	57 61854	20318
390 36 02765	28327	47 05663	20287	07 05690	00014	05 05690	18215
382 26 01955	28425	86 01954	29324	07 01890	00014	57 02853	20268
438 80 02754	24414	8- 02755	23385				
430 3- 25955	27385	83 02745	26325	50 01763	30103	58 02765	16128
409 8- 02954	29426	26 01954	27415	52 61864	22228	5- 51626	19358

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ See disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 9th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	bccpro	qprtlbc	bccycmo	Kew 24 hours ended 7h. Max. Tint <0·1 Wh
Croydon ...	cpr.bcy	bccpr.cpr	b2obcc	
Greenwich ...	cy	bccptbc	p.bcboy	
Camden Square	c	cp	*	
Kensington ...	cbcc	bcpbc	*	
Hampstead ...	bcptl	bcp	bc	Min. Time of Period.

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	62	49	36	1	–	3·7	*	*
Croydon ...	63	48	43	3	–	10·4	*	*
Greenwich ...	66	47	36	3	Tr	6·1	62	59
Westminster ...	65	49	43	0·4			53	69
Regents Park ...								
Camden Square ...	65	49	42	1	–	*	*	66
Kensington ...	65	48	37	0·4	–		83	69
Hampstead ...	65	46	39	0·2	–		*	73

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 10th July 1943 — No. 2915

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	°F. Dew Point. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	13·0	−18	SSW	3	c/r	59	85	55	8	S	2	–	9	10	1500
	Croydon ...	14·7	−16	SSW	4	d.d.	58	85	55	7	S	2	–	9	10	800
	S. Farnborough	13·3	−18	SW	3	d.d.	59	92	57	6	6	2	–	7-8	10	700
	Boscombe Down	13·3	−18	SWS	3	d.d.	59	92	57	7	S	2	–	9	10	600
	Thorney Island	14·4	−16	WSW	4	dd	59	97	58	5	6	2	–	9	10	800
	Lympne ...	15·3	+10	SW	5	r.r.	58	85	53	7	6	2	–	7-8	10	900
	Manston ...	15·2	−4	S'W	4	r.r.	60	75	53	7	S	7	–	2-3	10	1200
2	Shoeburyness ...	15·1	−2	SW	4	c	61	75	53	8	S	2	–	7-8	10	1500
	Felixstowe ...	13·9	−8	SSW	3	c/r	60	85	56	7	S	2	–	4-6	10	4000
	Gorleston ...	12·7	−12	SSW	4	pr	59	75	49	7	8	7	–	7-8	10	1800
	Mildenhall ...	12·7	−10	SWS	4	dr	57	85	52	6	S	–	–	10	10	1800
	Cranwell ...	10·8	−12	SWS	4	d.d.	56	97	54	7	S	2	–	9+	10	1000
3	Birmingham ...	10·9	−4	SW	3	ir.	57	85	52	6	S	–	–	10	10	1500
	Upper Heyford	11·9	−22	SSW	2	d.d.	57	97	57	5	S	2	–	7-8	10	300
4	Ross-on-Wye	11·6	−10	W	3	c/pr	63	75	55	9	8	7	–	9	10	2500
5	Hartland Point	14·3	+12	NW	4	c	60	85	54	8	8	–	–	9+	9+	1500
	Bristol ...	12·8	−2	N	4	c	66	85	60	8	S	1	–	4-6	10	800
	Portland Bill ...	11·2	+6	W	3	c.bc	59	92	57	8	S	–	–	7-8	7-8	4000
	Plymouth ...	15·6	+2	WNW	3	i.d.	64	75	57	8	S	2	–	7-8	9	1500
	The Lizard ...	16·5	+4	W	4	bc	63	75	56	8	2	3	–	4-6	4-6	2500
	Scilly (St. Mary's)	17·5	+6	WNW	5	c	61	65	53	8	8	7	–	7-8	9+	1200
	Guernsey ...															
6	Pembroke ...	14·5	+12	NW	3	c	59	75	51	8	1	7	–	7-8	9+	1400
7	Holyhead (Valley)	12·8	+18	WNW	4	c	61	75	51	8	8	7	–	4-6	9	2500
	Chester (Sealand)	11·1	+10	NNW	4	r.r.	56	85	52	6	S	2	–	9	10	1200
8	Manchester ...	10·3	−2	W'N	4	d.d.	57	97	56	6	S	2	–	7-8	10	600
10	Spurn Head ...	10·6	−12	SWW	5	r.r.	56	65	46	6	3	–	–	10	10	1500
	Catterick (Sc.) ...	08·5	−8	SSW	1	c	60	85	54	7	S	–	–	7-8	10	1500
	Tynemouth ...	08·4	−6	SW	3	c/pr	58	85	54	6	8	–	–	9	9	2000
11	St. Abbs Head	06·1	0	W	3	ir.	56	92	54	7	S	2	–	7-8	10	2000
	Leuchars ...	05·9	0	W	3	ir.	58	75	52	6	8	2	–	4-6	10	1800
12	Renfrew (Abbotsl.)	07·9	+14	NNW	5	c.bc	59	65	46	9	8	7	–	4-6	7-8	2000
	Eskdalemuir ...	07·3	+8	WNW	5	c	56	75	47	8	S	–	–	9	9+	1600
	Point of Ayre ...	11·1	+24	NNW	5	c.bc	61	75	53	8	8	4	S	4-6	7-8	8000
13A	Tiree	10·1	+12	NW	5	bc	58	65	45	9	2	3	2	2-3	4-6	3000
13B	Stornoway ...	06·9	+18	W	5	c.bc/pr	57	75	47	8	2	7	9	4-6	7-8	2500
15	Dalwhinnie ...	07·0	+10	W	3	c	51	75	44	7	S	–	–	9+	9+	2500
	Aberdeen ...	05·5	+2	SW	2	i.D	58	75	50	6	6	2	–	7-8	10	2000
	Wick ...	04·8	+6	W	5	c	57	65	47	9	S	7	2	7-8	9+	3000
16	Sumburgh ...	03·2	0	SSW	4	ir.	51	97	51	7	S	2	–	4-6	10	600
17	Blacksod Point	15·6	+6	WNW	4	c.bc	59	65	47	8	8	–	–	7-8	7-8	2500
18	Malin Head ...	11·6	+12	NW'N	5	c.bc/pr	57	65	45	8	8	–	–	7-8	7-8	1500
	Aldergrove ...	12·0	+14	NW	3	c.bc	60	55	44	8	8	3	–	4-6	7-8	2000
19	Birr Castle ...	15·0	+14	WNW	2	c.bc	59	75	51	8	4	–	–	7-8	7-8	1500
20	Valentia Obsy.	18·4	+8	NW'N	3	c/pr	58	75	50	9	8	–	–	9+	9+	2500
	Roches Point	16·4	+10	N'W	5	bc/pr	61	75	53	8	8	–	–	4-6	4-6	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	11·2	−6	NNW	4	c	67	55	49	8	9	3	6	7-8	9	1500	1	•
	Croydon ...	12·1	−14	W'N	3	c	66	75	58	8	8	3	–	7-8	9	1500	1	•
	S. Farnborough	11·8	−2	WNW	3	c	66	65	52	8	8	7	–	7-8	9	2000	1	•
	Boscombe Down	13·2	+6	NW'N	4	c	63	65	49	8	2	7	–	4-6	9	2000	0	•
	Thorney Island	12·6	−6	WNW	5	c.bc	65	55	52	9	2	7	–	2-3	7-8	2500	0	•
	Lympne ...	12·1	−24	SWW	4	c/d	58	97	58	5	5	–	–	10	10	100	1	•
	Manston ...	12·2	−18	S'W	4	c/d	59	97	57	7	5	3	–	7-8	9+	400	1	5 •
2	Shoeburyness ...	12·4	−2	SW	2	c.bc	63	85	58	8	5	7	–	4-6	7-8	1500	1	•
	Felixstowe ...	11·2	−18	SW	4	c	61	92	59	8	5	–	–	4-6	9	4000	1	4
	Gorleston ...	10·8	−12	SW	3	r.r.	53	97	52	6	6	–	–	10	10	700	1	3
	Mildenhall ...	10·4	−10	W	3	c	62	85	58	8	8	4	–	4-6	9+	2500	1	•
	Cranwell ...	10·5	+8	W'N	5	c	60	75	52	7	8	–	–	9+	9+	2300	1	•
3	Birmingham ...	12·3	+10	NW	4	c	58	65	46	7	5	7	–	7-8	9+	1500	1	•
	Upper Heyford	11·8	+10	NW'W	4	bc	61	65	50	9	2	6	–	4-6	4-6	3500	0	•
4	Ross-on-Wye	13·2	+10	W'N	4	c.bc	61	55	46	8	8	–	1	7-8	7-8	3500	0	•
5	Hartland Point	15·6	+8	WNW	4	bc	59	75	51	8	7	4	1	4-6	4-6	2000	0	4
	Bristol ...	13·9	+8	NW	5	c	61	75	52	9	5	3	–	9	9+	2500	0	•
	Portland Bill ...	14·5	+6	W	4	c	62	85	59	8	2	4	–	4-6	10	4000	1	4
	Plymouth ...	16·7	+4	WNW	4	c	61	65	51	8	5	1	–	7-8	9	1800	0	2
	The Lizard ...	17·6	+4	WNW	4	c.bc	59	85	53	8	2	3	–	7-8	7-8	2000	0	4
	Scilly (St. Mary's)	18·6	0	W'N	5	c.bc	61	65	50	8	8	6	2	4-6	7-8	1500	0	4
	Guernsey ...																	
6	Pembroke ...	16·0	+6	NW	3	cq	60	85	54	8	2	2	–	7-8	9+	2000	0	2
7	Holyhead (Valley)	14·1	+10	NW'W	3	c	59	65	47	8	2	7	5	Tr	9+	3500	1	2
	Chester (Sealand)	12·8	+4	NW'N	5	c	59	65	46	8	2	3	–	2-3	9+	2000	1	•
8	Manchester ...	12·0	+10	NW	4	c.bc	58	65	46	8	2	6	3	4-6	7-8	2500	1	•
10	Spurn Head ...	09·2	0	NW'W	5	c.bc	63	65	52	7	7	3	–	4-6	7-8	1500	0	2
	Catterick (Sc.) ...	09·1	+8	W	4	c	58	65	46	8	4	6	–	9	9+	2000	0	•
	Tynemouth ...	08·3	+14	W	4	c.bc	62	55	46	7	8	3	–	4-6	7-8	2000	1	3
11	St. Abbs Head	08·3	+16	N	3	r.r.	51	97	51	6	5	2	–	7-8	10	1500	1	3
	Leuchars ...	08·0	+8	SSE	1	c.bc/pr	57	85	52	8	8	4	–	4-6	7-8	2500	1	
12	Renfrew (Abbotsl.)	10·1	+14	W'N	4	c.bc/pr	57	75	50	9	8	6	–	4-6	7-8	2000	1	•
	Eskdalemuir ...	08·5	+6	WN	4	bc	57	65	43	8	8	4	–	4-6	4-6	2200	1	•
	Point of Ayre ...	12·4	+12	NNW	4	b.bc	55	75	49	8	4	–	4	1	2-3	3000	0	4
13A	Tiree	11·8	+10	WNW	4	bc	55	75	46	9	2	3	–	1	4-6	2500	0	3
13B	Stornoway ...	09·2	+12	WNW	5	bc/pr	55	75	49	8	3	2	9	4-6	4-6	1800	1	3
15	Dalwhinnie ...	09·0	+14	W	3	c	51	75	42	7	5	3	–	7-8	9+	2500	1	
	Aberdeen ...	07·7	+14	NNW	3	c	58	55	43	9	4	3	–	1	9+	2500	1	2
	Wick ...	07·6	+14	NW	4	c	54	75	47	9	8	7	–	4-6	9+	3000	0	
16	Sumburgh ...	04·7	+6	W'N	3	c	53	75	47	8	2	2	2	7-8	10	1500	0	2
17	Blacksod Point	13·5	−6	W	4	c.bc	57	65	45	8	8	–	2	4-6	7-8	2500	3	1
18	Malin Head ...	12·9	+10	NW	5	bc	55	65	44	8	8	–	–	4-6	4-6	1500	1	4
	Aldergrove ...	13·3	+10	NW	3	c.bc	55	65	48	9	8	7	4	4-6	7-8	2500	1	•
19	Birr Castle ...	13·3	+6	WNW	3	c	59	65	47	8	5	7	–	7-8	9+	2500	0	3
20	Valentia Obsy.	18·4	−2	W'N	3	c	57	65	45	8	2	7	–	2-3	9+	2500	1	3
	Roches Point	17·0	+4	NNW	5	c	60	75	52	8	5	7	–	4-6	9+	1500	0	3

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 9th (39)	13h.–18h. 9th (40)	18h. 9th to 1h. 10th (41)	1h.–7h. 10th (42)
1	London (Kew)	c.m.d.r.c	c.d.r.c.y	c.y.c	c
	Croydon ...	c.r.r.	c.d.d.m.c	c.z.b.c.b	b.b.c.c
	S. Farnborough	c.r.r.d.d.m	c.d.d.r.m.z.c		c.b.c.w.c
	Boscombe Down	c.d.d.m	c.d.m.c	c.b.c.c	c.b.c.c
	Thorney Island	c.m.d.d	c.i.d.b.c	c.b.c.c.b.c	b.c.m
	Lympne ...	b.c.c.r.r.	c.r.d.P.D.m.c	m.	c.b.c.m.
	Manston ...	c.b.c.c.i.r.	c.r.r.d.d.m.c	p.r.p.b.c	b.c
2	Shoeburyness ...	c.r.r.c	m.c.r.r.c	c	b.c.c.m.
	Felixstowe ...	c.i.r.c	c	c.b.c.b.z.o.	b.c.c
	Gorleston ...	c.p.r.	o.r.r.	b.c	b.c
	Mildenhall ...	c.c.r.r.	c.r.d.r.i.d.i.d.c	c.b.c	b.c.m.
	Cranwell ...		c.r. d.c	c.b.c.b	b.b.c.m.c.m.
3	Birmingham ...	c.i.r.	r.c.r.	b.c	b.c.c
	Upper Heyford	c.m.i.r.d.d	c.d.d.i.r.b.y	b.c.c.b.c	c.d.d.m.c
4	Ross-on-Wye	c.d.d.m.c	i.d.c	c.v.c.y	c.b.c.c
5	Hartland Point	c.o.r.r.i.r.o	c.b.c	b.c.c.b.c	b.c.c.i.r.o
	Bristol ...	c	c.c.v.c.v	c.c.m.	c.m.b.c.m.o.c.p.r.o
	Portland Bill ...	c	c	c	c
	Plymouth ...	c.d.d.o	c.b.c.c	c	b.c.c.i.r.c
	The Lizard ...	c.d.f.b.c	b.c.c	c.b.c	b.c.c.r.r
	Scilly (St. Mary's)	c.i.d.c	c	c	c.r.o.r.o
	Guernsey ...				
6	Pembroke ...	c	c.q.	c	c.r.o.r.o.
7	Holyhead (Valley)	c	c.b.c.c	c.b.c.c	c.b.c.c.r.o.r.o
	Chester (Sealand)	c.i.d.o.r.o	c.r.o.r.o.m.o.c	c.b.c	c.r.o.r.o.m.o
8	Manchester ...	V.o.g.d.o.d.o.m.o	c.i.r.o.p.r.o	c.b.b.c.m.o	b.b.c.c.m.o.w
10	Spurn Head ...	c.r.o	c	b.c	c
	Catterick (Sc.) ...	c.m.o.c	c.y.c	b.c	c.b.c
	Tynemouth ...	c.p.o.m.o	c	c.i.r.o.b.c	b.c.c
11	St. Abbs Head	c.i.d.o.e.i.r.o	c.r.r.c.m.o	c.r.r.c	b.c.c
	Leuchars ...	d.o.r.o.c.i.r.o.m.o	i.r.o.m.o	c.p.r.o.c.b.c.b	b.b.c.c.c.w.c
12	Renfrew (Abbotsl.)	c.m.o.i.d.o.p.r.o.c	c.c.p.r.o.c	c.b.o.b.b.c.w	b.c.w.c.w.c.m.o
	Eskdalemuir ...	c.o.r.o.c	c.p.r	b.c.c	c
	Point of Ayre ...	b.c.c	c.l.b	b.c	c.r.o.r.o
13A	Tiree	c.j.p.b.c	b.c	b.c	b.c.c.i.r.o
13B	Stornoway ...	c.p.r.o.c	c.p.r.a.b.c	b.c	c.c.i.r.o.c
15	Dalwhinnie ...	o.p.r.c	c.p.r		c.p.r.o.o.c
	Aberdeen ...	c.i.r.c.i.D	i.D.r.r.o.c.y	c.b.c.*	b.c.w
	Wick ...	c.d.d.m.o.c.j.p	c	c.b.c	b.c.c
16	Sumburgh ...	c.i.r.o	c.p.r.o.c	c.p.r.o.c	b
17	Blacksod Point	b.c	c	r	r
18	Malin Head ...	p.r	d	b.c	r
	Aldergrove ...	m.o.i.d.d.r.o.c	c.p.r.o.b.c.b.c.b.b.c	b.c.c.b.c.b.b.c	b.c.c.r.o.r.o.m.o
19	Birr Castle ...	p.r	c	*	r
20	Valentia Obsy.	p.r	c	r	r
	Roches Point	p.r	c	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 10th July 1943

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
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Moderate to fresh southwesterly winds, strong locally in exposed places in the southwest veering west later; dull with a period of general rain; improved conditions spreading east later with bright periods and local showers; cool.

Light southerly winds, freshening, veering westerly later; fair at first, general rain spreading from southwest, followed by showers and bright periods; cool.

16 Orkneys and Shetlands	As 10–15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate or fresh southerly winds, veering westerly temporarily, backing southwest or south again later; dull and rainy at first, followed by a fairer period with local showers and bright intervals; further general rain spreading from west later; cool.

GENERAL INFERENCE

A depression centred off Northwest Ireland is moving northeast, and another depression now well out on the Atlantic will follow it; it will be generally cool and unsettled, with alternating rainy and mainly fair periods.

FURTHER OUTLOOK

Unsettled west or southwest type persisting.

Forecasts issued at 10·30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday 10th July 1943.

Low

Low

HIGH

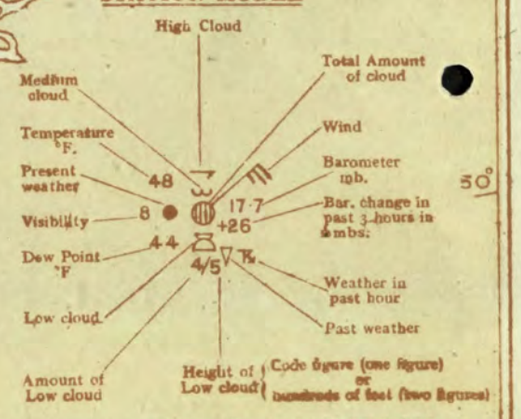
10° 5°W. 0° 5°E

80° 70° 60° 55° 50°

1002 1004 1006 1008 1010 1012 1014 1016 1018

Mb 1050 1040 1030 1020 1010 1000 990 980 970 960 950 940 930

STATION MODEL



Scale 1.: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

Fs 520/4503 We 809: D 454 Gp 948/2 7490 7/43

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of
Saturday 10th July
1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 10th July 1943 — No. 29815

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	56									
	Croydon ...	290	15·3	+10	WNW	1	b	57	65	45	7	5	–	–	1	1	2000
	S. Farnborough	226	15·6	+8	W'N	2	c	52	85	47	8	5	7	6	4-6	3+	2500
	Boscombe Down	417	16·7	+10	W'S	1	c	49	85	45	7	–	3	–	0	3+	–
	Thorney Island	10	16·1	+10	W'N	2	bc	53	85	49	8	–	–	5	0	4-6	–
	Lympne ..	283	14·5	+10	NW	2	2o	52	92	50	6	5	–	–	3	3	3000
	Manston ...	154	13·1	+8	NNW	3	bc	57	75	50	7	5	7	–	Tr	4-6	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	12·8	+8	W'N	4	2o	55	75	49	6	–	4	–	0	1	–
	Gorleston ...	5	11·3	+1	WNW	2	bc	52	85	46	7	8	–	–	4-6	4-6	1500
	Mildenhall ...	15	12·9	+2	W'N	3	b	50	85	47	7	5	–	–	Tr	Tr	4000
	Cranwell ...	203	13·2	+1	W	1	b	49	92	47	7	5	–	–	1	1	5000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	15·0	+10	W	1	bc	49	85	46	8	–	4	2	0	4-6	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·3	–2	NNW	3	b-bc	57	85	51	8	2	4	–	2-3	2-3	2500
	Bristol	209	16·6	+6	SW'W	3	2o	53	85	49	6	5	7	2	Tr	3	4000
	Portland Bill ...	32	17·3	+12	W	4	c-bc	58	75	52	8	5	–	–	7-8	7-8	4000
	Plymouth ...	86	18·3	–2	W	2	c-bc	55	92	52	7	5	1	8	2-3	7-8	3000
	The Lizard ...	240	18·2	–2	SW	3	bc	56	85	48	8	5	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	19·3	+2	WSW	3	c	56	75	49	8	5	4	–	4-6	9	1500
	Guernsey ...	175															
6	Pembroke ...	142	16·2	–8	WNW	2	c	56	85	52	8	5	–	–	9	9	2500
7	Holyhead (Valley)	32	14·9	0	—	0	c-bc	49	97	48	8	5	7	–	4-6	7-8	4000
	Chester (Sealand)	16	14·3	+2	WNW	2	bc	49	85	46	7	5	7	1	1	4-6	3500
8	Manchester ...	230	13·7	+2	SW'W	2	2o	46	92	44	6	4	–	–	2-3	2-3	4000
10	Spurn Head ...	29	11·5	+8	NW'W	4	bc	55	85	50	7	7	3	–	4-6	4-6	1500
	Catterick (Sc)...	192	12·1	+8	NW	3	bc	50	85	44	8	5	3	–	2-3	4-6	2500
	Tynemouth ...	108	11·8	+4	NNW	3	bc	50	85	47	7	8	–	–	4-6	4-6	1500
11	St. Abbs Head	280	09·9	–2	WNW	3	bc	51	85	47	7	4	4	–	4-6	4-6	2500
	Leuchars ...	36	11·2	+8	W	1	b-bc	47	85	43	9	–	3	–	0	2-3	–
12	Renfrew (Abbotsl.)	19	12·1	+2	–	0	bc	46	92	44	7	5	7	2	2-3	4-6	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	13·4	0	NW'N	3	b	53	75	47	8	2	4	1	1	1	3000
13A	Tiree	44	11·3	–6	W	1	b-bc	46	92	44	9	8	–	–	1	2-3	2500
13B	Stornoway ...	12	09·9	–2	SSW	3	c-bc	51	85	47	7	5	3	–	7-8	7-8	3200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	10·3	+6	W'N	2	b	43	92	41	9	4	4	–	Tr	1	3100
	Wick ...	114	09·0	+6	WSW	2	b	43	92	41	9	2	–	–	1	1	2000
16	Sumburgh ..	19	06·6	+4	W'N	5	c-bc/pr	51	85	45	8	3	7	2	1	7-8	1500
17	Blacksod Point	18	11·0	–32	S	3	ic	54	85	50	7	6	2	–	4-6	10	1600
18	Malin Head ...	84	11·9	–10	SSW	2	bc	50	85	46	8	4	–	–	4-6	4-6	1500
	Aldergrove ...	268	13·7	–6	—	0	bc	45	92	44	8	5	–	–	4-6	4-6	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·2	–34	SW	3	rr	54	92	52	7	5	2	–	4-6	10	1500
	Roches Point	22	15·9	–16	W'S	2	ic	54	85	50	8	6	2	–	4-6	9+	1500

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

Dist.	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	15·9	+4	SW	2	c	56	75	48	7	5	1	–	7-8	10	4000	1	*
	Croydon ...	16·8	+2	WSW	2	c	55	75	47	7	–	7	8	0	3+	–	0	*
	S. Farnborough	16·1	–6	WSW	2	c	55	85	49	8	5	7	7	4-6	10	3000	0	*
	Boscombe Down	16·6	–2	SW'S	2	c	53	92	49	7	5	7	–	4-6	3+	6000	0	*
	Thorney Island	16·8	+2	–	0	2o	56	85	51	6	–	7	8	0	3+	–	0	*
	Lympne ..	16·6	+10	W'N	2	c	56	85	50	7	–	–	7	0	3+	–	1	*
	Manston ...	15·8	+14	W'S	2	c	57	75	50	7	–	–	7	0	10	–	1	*
2	Shoeburyness ...	15·9	+6	W	2	2o	55	75	48	6	–	1	–	0	3+	–	1	*
	Felixstowe ...	14·9	+10	WNW	4	c	55	85	49	7	–	–	6	0	3+	–	0	3
	Gorleston ...	13·4	+12	W'N	3	bc	50	85	48	7	–	7	–	0	4-6	–	0	2
	Mildenhall ...	14·7	+6	N'S	2	2o	53	85	47	6	–	4	7	0	10	–	1	*
	Cranwell ...	13·8	+4	W'S	4	2o	50	92	48	6	5	7	–	2-3	10	2000	1	*
3	Birmingham ...	14·7	–4	S	2	c	50	85	46	8	5	7	–	2-3	10	4000	0	*
	Upper Heyford	15·2	0	SW	1	c	50	85	47	7	5	7	7	Tr	10	2500	0	*
4	Ross-on-Wye	14·8	–6	SW'S	1	ic	54	85	49	7	–	2	–	10	10	1000	0	*
5	Hartland Point	13·7	–16	SW	3	ic	55	85	50	7	5	2	–	7-8	10	800	1	8
	Bristol	15·9	–2	SSW	3	ic	55	82	52	7	5	2	–	4-6	10	4000	0	*
	Portland Bill ...	16·8	0	W	4	c	58	85	54	8	5	–	–	10	10	4000	1	4
	Plymouth ...	16·8	–14	SSW	2	ic	57	85	54	7	5	2	–	4-6	10	3000	0	1
	The Lizard ...	15·9	–16	W	4	c/c	56	97	56	8	5	–	–	10	10	1500	1	2
	Scilly (St. Mary's)	15·0	–26	SW'S	5	c/c	56	92	53	6	5	–	–	10	10	800	1	5
	Guernsey ...																	
6	Pembroke ...	13·4	–16	SSW	4	c/c	56	97	55	8	8	6	–	10	10	2000	1	3
7	Holyhead (Valley)	11·0	–26	SW'S	2	c/c	54	85	50	7	5	2	–	3	10	1000	1	1
	Chester (Sealand)	13·2	–8	–	0	c/c	50	92	48	5	5	2	–	4-6	10	2000	1	*
8	Manchester ...	13·5	–4	SSE	3	2o	49	92	46	6	5	2	–	4-6	10	4000	1	*
10	Spurn Head ...	12·3	+2	NW'N	4	c	52	85	47	6	5	3	–	10	10	1500	0	3
	Catterick (Sc)...	12·4	+2	–	0	c	51	75	45	8	5	7	–	4-6	10	2500	0	*
	Tynemouth ...	12·1	–2	W	3	c	51	75	45	7	5	–	–	9	9	2600	1	2
11	St. Abbs Head	10·7	+4	SW	1	c	49	92	47	7	5	4	–	7-8	9+	3500	0	3
	Leuchars ...	10·7	–2	W	2	c	49	85	44	8	5	4	–	7-8	9+	5000	0	*
12	Renfrew (Abbotsl.)	10·5	–6	–	0	2o	49	92	47	5	5	2	–	4-6	10	3500	1	*
	Eskdalemuir ...	11·7	0	–	0	c	44	92	43	8	8	–	–	10	10	1300	1	*
	Point of Ayre...	11·5	–12	SW'S	1	6c	53	85	49	8	6	2	–	4-6	10	2000	1	3
13A	Tiree	09·2	–2	S	4	ic	53	85	48	8	5	7	–	4-6	10	2000	0	3
13B	Stornoway ...	07·8	–14	SSW	3	c/r	51	92	49	8	8	7	9	2-3	9	2500	1	2
15	Dalwhinnie ...	10·0	–2	SW	2	c	47	85	43	8	5	1	–	1	9+	2500	1	*
	Aberdeen † ...	09·8	–4	WSW	2	c-bc	53	65	41	9	5	4	6	Tr	7-8	2500	0	1
	Wick ...	08·6	–2	SW'W	2	c	51	85	48	9	5	6	–	2-3	9	3500	0	*
16	Sumburgh ..	07·4	+6	SW'W	3	b	53	92	50	8	1	4	–	Tr	1	1000	0	2
17	Blacksod Point	02·8	–50	S'E	4	ir	52	92	50	7	6	–	–	10	10	1500	2	3
18	Malin Head ...	08·1	–14	S'E	3	ic	50	75	43	8	–	2	–	9+	9+	1500	1	3
	Aldergrove ...	10·1	–20	SW	1	6c	48	92	47	7	–	2	–	10	10	1000	1	*
19	Birr Castle ...	05·1	–58	SSW	4	rr	51	92	49	7	6	2	–	7-8	10	800	1	*
20	Valentia Obsy.	03·8	–14	W'S	5	c/r	53	92	51	7	5	–	–	9+	9+	800	1	4
	Roches Point	06·3	–48	SW	5	dr	57	97	56	5	5	–	–	10	10	450	1	4

PAST 24 HOURS.

Dist.	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 9th Hrs. (38)
1	London (Kew)	68	52	43	1	–	1·3
	Croydon ...	66	50	46	1	–	1·0
	S. Farnborough	67	47	35	2	–	1·4
	Boscombe Down	63	47	40	1	–	2·7
	Thorney Island	69	47	41	0·5	–	*
	Lympne ..	61	47	44	4	–	4·2
	Manston ...	63	54	51	1	Tr	5·0
2	Shoeburyness ...	64	49	44	2	–	4·3
	Felixstowe ...	64	50	47	1	–	5·4
	Gorleston ...	64	48	42	1	2	4·5
	Mildenhall ...	63	46	42	2	–	2·2
	Cranwell ...	63	46	43	3	–	1·4
3	Birmingham ...	63	47	37	1	–	0·5
	Upper Heyford	66	46	33	2	–	*
4	Ross-on-Wye	67	48	40	Tr	Tr	2·0
5	Hartland Point	60	54	53	2	0·1	2·7
	Bristol	69	51	39	Tr	–	2·0
	Portland Bill ...	62	54	*	2	–	*
	Plymouth ...	65	53	42	4	Tr	3·3
	The Lizard ...	63	54	*	0·5	0·5	8·7
	Scilly (St. Mary's)	65	55	*	0·1	1	7·9
	Guernsey ...						
6	Pembroke ...	61	53	*	Tr	7	*
7	Holyhead (Valley)	63	48	39	0·3	1	*
	Chester (Sealand)	60	46	39	0·5	0·4	3·1
8	Manchester ...	60	44	42	2	–	*
10	Spurn Head ...	63	52	*	1	–	2·8
	Catterick (Sc)...	66	48	45	Tr	0·2	0·0
	Tynemouth ...	66	48	45	0·5	1	*
11	St. Abbs Head	58	48	*	4	1	*
	Leuchars ...	60	43	35	0·1	Tr	0·5
12	Renfrew (Abbotsl.)	62	43	35	0·1	Tr	4·7
	Eskdalemuir ...	60	40	30	1	–	3·8
	Point of Ayre...	63	45	*	0·2	Tr	5·2
13A	Tiree	58	45	38	0·1	–	8·8
13B	Stornoway ...	60	46	41	0·5	2	4·6
15	Dalwhinnie ...	56	38	30	2	0·6	1·1
	Aberdeen † ...	58	41	32	0·5	–	0·2
	Wick ...	57	42	34	0·5	–	*
16	Sumburgh ..	55	49	45	0·3	0·3	1·7
17	Blacksod Point	60	49	*	–	3	*
18	Malin Head ...	58	48	*	0·6	0·2	5·9
	Aldergrove ...	61	45	*	0·1	2	5·6
19	Birr Castle ...	63	49	45	0·2	8	2·2
20	Valentia Obsy.	60	53	51	0·1	9	1·5
	Roches Point	63	54	*	Tr	7	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 9th July				18h. G.M.T.			01h. G.M.T. 10th July			07h. G.M.T.		
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109				82	02744	26527	87	25653	23484	87	02764	19326
115	87	02844	24466	34	25944	24587	57	02844	22426	53	02844	20426
203							83	02845	20425			
206	77	02864	26468	84	02954	24285	44	01861	24112	83	02863	22226
210	87	02854	26368	87	81965	26487	53	01953	22313	53	02951	20315
219	22	81854	25585	20	02854	26524	43	01853	23584	32	25854	20188
230	87	02865	25556	2-	02865	25485	84	02864	22126	87	02843	00027
245	52	61748	23168	77	02955	00067	50	01961	24111	54	02-41	23317
260	82	02844	22428	5-	02865	-----	54	05651	20213	51	02755	12428
278	57	02843	59626	86	02853	59515	54	01855	22313	52	61855	14128
279	87	02955	26427	86	01963	28424	50	01862	26213	82	02654	16228
286	27	21744	24656							5-	03748	-3248
288	57	08655	16568	84	02855	22325	50	01763	22123	07	02890	18128
575	8-	25855	30485	25	25854	26386	50	01854	00014	62	62735	22168
301	87	02765	26467	27	01852	28523	5-	01853	27413	52	61553	14218
321	02	05538	18268	74	01763	26584	50	05664	26514	57	05564	00028
299	5	52548	20488	8-	02745	20315	8-	25747	28346	42	02743	28326
282	92	52535	16368	24	02956	24387	50	01862	24812	07	02890	00028
310	--	51428	20488							--	02628	24228
614	52	51445	19258	13	02752	30225	54	05673	24214	57	05562	24228

13h. G.M.T. 9th July				18h. G.M.T.			01h. G.M.T. 10th July			07h. G.M.T.		
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
388	57	02863	58456	23	01862	26414	57	02864	00025	52	62753	17258
334	--	53547	26388							--	63647	26288
340	77	02945	28458	84	02954	26425	54	01754	24114	52	62644	14258
136	52	52645	50368	66	05635	20267	07	01750	24511	51	05642	24318
336	5-	02856	28428	14	01753	28414				62	62626	24368
350	62	54635	18358	53	25855	60586	54	01772	24113	07	02790	18128
368	83	02855	24486	53	01964	26425	50	01753	26113	57	62658	22228
379				57	02854	59415	07	01890	22212	07	02790	20228
390	5-	52545	18368	53	05653	18125	00	00790	24310	00	02790	26228
382	52	02835	20868	26	01964	26415	57	02851	28128	57	02772	28128
438	87	61644	23488	87	41744	22646	5-	03758	22218	50	01764	24214
430	52	62426	20368	23	02743	24425	00	01790	28113	03	02790	20128
409	5-	25845	29487	24	02964	27426	8-	01854	25324	52	62745	17368

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 262.
h_L N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 10th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	c/mod/c	c/dr/cy	cyc	Kew 24 hours ended 9h Max. Temp.
Croydon ...	cr/c/c	c/dc/dm/c	c2/bc/bc	
Greenwich ...	cirr/c	circ	cbc	
Camden Square	c	c	*	
Kensington ...	bc/pcr	bc	*	
Hampstead ...	bc/cr	b	0	Min. Time Period.

Stations.	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine Yesterday to sunset hrs	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	68	52	43	1	–	1·3	*	*
Croydon ...	66	50	46	1	–	1·0	*	*
Greenwich ...	65	49	39	1	–	1·8	95	64
Westminster ...	61	51	45	1			98	73
Regents Park ...	67	51	48	1	–		94	70
Camden Square	66	51	45	1	–	*	*	69
Kensington ...	67	50	41	1	–		93	72
Hampstead ...	64	48	42	1	–		*	77

SECRET

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 11th July 1943

No. 22816

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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	13·9	−12	SSW	2	iro	59	85	54	6	6	2	–	2-3	10	1500
	Croydon	15·6	−8	SSW	4	dr	56	85	53	6	5	2	–	7-8	10	800
	S. Farnborough	14·3	−12	SW'W	4	roro	56	92	54	6	6	2	–	7-8	10	1000
	Boscombe Down	13·1	−22	SSW	5	roro	55	97	55	6	5	2	–	9	10	400
	Thorney Island	15·1	−6	SW'S	5	rr	56	92	54	6	5	2	–	7-8	10	800
	Lympne	15·8	−6	SW	5	roro	53	97	53	7	5	2	–	4-6	10	1000
	Manston	15·7	0	SSW	3	roro	57	85	53	7	6	–	–	7-8	10	1800
2	Shoeburyness	15·5	+12	SW	3	rr	58	85	54	6	5	–	–	10	10	2500
	Felixstowe	14·8	−2	SSW	3	iro	61	75	54	7	5	2	–	2-3	10	4000
	Gorleston	14·2	+2	SW	3	roro	59	65	46	7	6	–	–	7-8	10	1200
	Mildenhall	13·8	−6	SW'W	2	rr	57	85	52	6	5	–	–	10	10	1000
	Cranwell	12·3	−8	S'E	3	roro	55	97	54	6	6	2	–	7-8	10	600
3	Birmingham	10·3	−22	SSE	3	ido	53	97	53	6	6	–	–	10	10	800
	Upper Heyford	12·4	−18	S	2	dodo	53	97	52	5	6	2	–	9+	10	400
4	Ross-on-Wye	11·0	−10	S	3	ido	57	92	54	6	6	–	–	10	10	800
5	Hartland Point	08·6	−14	WSW	5	ir	60	97	60	6	6	2	–	7-8	10	800
	Bristol	11·4	−32	SSW	5	ido	58	97	57	8	5	–	–	10	10	600
	Portland Bill	14·0	−16	SW	5	rr	57	85	53	7	5	–	–	10	10	2500
	Plymouth	13·0	−18	SW'W	5	rr	60	97	60	6	6	2	–	9+	10	300
	The Lizard	12·4	−10	SW	6	rf	60	97	60	3	5	–	–	10	10	800
	Scilly (St. Mary's)	12·3	+4	WSW	5	c	61	97	61	6	5	–	–	10	10	800
	Guernsey															
6	Pembroke	07·6	−4	W	6	cq	59	92	58	7	5	–	–	9+	9+	2000
7	Holyhead (Valley)	05·3	−38	SW'W	4	dodo	54	97	52	8	6	2	–	4-6	10	300
	Chester (Sealand)	08·8	−32	SSE	3	c/r	55	92	52	6	5	2	–	7-8	10	2500
8	Manchester	09·8	−28	SE	4	ido	54	85	50	6	6	2	–	4-6	10	1500
10	Spurn Head	13·1	0	SSW	3	c	57	75	49	7	1	7	–	4-6	10	1500
	Catterick (Sc)	10·7	−10	S	3	iro	57	65	46	7	7	7	–	4-6	10	2800
	Tynemouth	11·2	−10	SE	3	c	55	75	48	7	5	–	–	9+	9+	2600
11	St. Abbs Head	09·0	−12	ESE	3	cbc	61	75	54	8	5	3	–	4-6	7-8	3500
	Leuchars	08·7	−14	ESE	3	zo	59	65	46	6	2	3	8	2-3	9	3000
12	Renfrew (Abbots I.)	08·0	−18	S'E	3	c/r	57	75	49	8	8	2	–	4-6	10	1400
	Eskdalemuir	08·8	−10	SW'S	1	ir	50	85	47	7	5	–	–	10	10	1500
	Point of Ayre	07·2	−28	SSE	5	roro	54	85	52	7	6	2	–	7-8	10	800
13A	Tiree	06·2	−18	SE	4	c	57	75	47	8	2	3	2	2-3	9	2500
13B	Stornoway	07·2	0	SSE	4	cbc	57	75	49	8	8	7	–	4-6	7-8	2500
15	Dalwhinnie		−14	S	3	bc	58	55	38	8	8	4	–	4-6	4-6	2500
	Aberdeen	09·1	−6	S'E	3	cbc	59	55	41	8	1	–	8	Tr	7-8	4000
	Wick	08·4	−2	SSE	2	cbc/pr	55	85	50	9	8	7	6	4-6	7-8	1500
16	Sumburgh	07·8	−2	SW	4	cbc	56	85	51	8	8	2	1	2-3	7-8	1000
17	Blacksod Point	02·2	+4	SW'S	4	c	60	92	58	7	5	–	–	10	10	2500
18	Malin Head	04·1	−16	E'S	4	iro	56	85	51	8	5	–	–	9+	9+	1500
	Aldergrove	05·0	−22	ESE	3	ido	54	85	50	8	5	–	–	10	10	1600
19	Birr Castle	04·5	+8	SSW	3	ir	61	92	59	7	6	2	–	7-8	10	800
20	Valentia Obsy.	08·5	+18	W'S	5	c	61	85	5[illegible]	7	5	–	–	9+	9+	1500
	Roches Point	06·9	+10	W'S	5	bc	63	85	58	8	5	4	–	4-6	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	10·1	−14	SSW	3	iro	60	92	57	7	6	3	–	7-8	9+	800	1	*
Croydon	11·8	−22	S	4	ido	59	92	58	7	5	2	–	9	10	900	1	*
S. Farnborough	10·0	−22	WSW	3	c/r	62	92	60	7	5	7	–	4-6	9	1000	1	*
Boscombe Down	10·2	−6	SW'W	4	c	65	85	59	7	2	7	2	4-6	9	1400	1	*
Thorney Island	11·5	−18	SW	5	c/d	62	92	60	7	6	2	–	7-8	10	800	1	*
Lympne	13·0	−22	SW	4	dodo	56	97	56	4	–	2	–	10	10	<150	1	§
Manston	13·7	−14	S'W	5	c/d	57	92	55	7	5	2	9	9	10	400	1	*
Shoeburyness	11·9	−36	SW	5	c	60	85	56	8	6	–	–	9+	9+	1500	1	*
Felixstowe	11·4	−32	SW'S	4	c	57	97	57	7	6	2	–	7-8	10	1500	1	
Gorleston	11·3	−10	S	4	pr	56	92	54	7	8	7	–	7-8	10	600	1	3
Mildenhall	09·5	−30	SW	3	o/d	56	92	54	7	5	–	–	10	10	500	1	*
Cranwell	07·9	−24	SSE	4	roro	55	97	55	5	6	2	–	9+	10	800	1	*
Birmingham	07·2	−8	WSW	6	zo	61	92	59	6	5	7	–	9+	10	1500	1	*
Upper Heyford	08·4	−22	SW	4	c	63	97	62	8	5	3	2	4-6	9	2500	1	*
Ross-on-Wye	08·3	0	SW'W	4	c	62	75	55	8	8	–	–	9+	9+	3000	1	*
Hartland Point	09·7	+4	W	5	cbc	61	85	58	7	5	–	–	7-8	7-8	1200	1	5
Bristol	10·5	+2	W	5	pr	62	92	59	6	8	–	–	4-6	9+	800	1	*
Portland Bill	11·8	−4	WSW	6	c	60	92	58	8	2	4	–	4-6	9	4000	1	5
Plymouth	13·1	+2	W'S	5	cbc	64	85	59	8	7	–	2	4-6	7-8	1800	1	4
The Lizard	13·6	+4	W	6	id	60	97	60	5	5	–	–	10	10	800	1	5
Scilly (St. Mary's)	13·5	+6	WSW	5	c	63	92	60	7	5	–	–	9+	9+	1000	1	4
Guernsey																	
Pembroke	08·8	+2	W	6	cq	59	85	55	7	5	4	–	4-6	9	2500	0	4
Holyhead (Valley)	05·8	+4	SW	4	ido	60	92	57	8	5	2	–	9	9+	3500	1	2
Chester (Sealand)	06·8	−4	S'E	1	roro	59	92	56	5	5	2	–	9	10	1000	1	*
Manchester	06·9	−14	S'W	3	c/d	58	92	56	6	5	2	–	7-8	10	1000	1	*
Spurn Head	09·4	−14	SE'S	5	roro	56	97	54	5	5	–	–	10	10	1500	1	3
Catterick (Sc)	08·5	−8	SSE	1	c/r	53	92	51	6	5	2	–	7-8	10	1500	1	*
Tynemouth	09·5	0	SSE	4	c	56	75	48	7	8	–	–	9+	9+	2100	0	3
St. Abbs Head	07·5	−8	SE	4	cbc	56	85	52	7	5	4	–	4-6	7-8	3500	0	3
Leuchars	07·2	−8	SE	4	c	57	65	47	8	5	3	–	7-8	9	3000	0	*
Renfrew (Abbots I.)	06·1	−10	SE'S	2	c	58	85	53	8	5	2	–	4-6	10	1800	1	*
Eskdalemuir	06·1	−10	SE	2	c/r	54	75	46	6	5	2	–	7-8	10	1500	1	*
Point of Ayre	05·1	−6	SSE	4	zo	56	97	55	6	6	2	–	7-8	10	800	1	4
Tiree	04·2	−16	SE'S	5	dodo	53	92	51	6	5	2	–	7-8	10	800	1	4
Stornoway	05·7	−12	E	2	iro	55	85	49	8	8	7	–	9	9+	2800	0	1
Dalwhinnie	07·0	−6	SSE	3	c	55	65	42	7	5	6	–	7-8	9	2500	0	*
Aberdeen	08·1	−4	SSE	3	b	56	65	43	8	1	4	1	Tr	Tr	4000	0	2
Wick	07·6	−10	ESE	2	b	55	85	49	9	8	–	–	Tr	Tr	2500	0	*
Sumburgh	07·8	−2	SSW	2	b	54	85	51	8	2	4	9	Tr	1	900	0	2
Blacksod Point	02·4	−2	SW'W	5	DD	57	92	55	7	6	2	–	4-6	10	1500	1	4
Malin Head	01·7	−18	SE	4	dd	55	92	53	6	5	–	–	10	10	800	1	1
Aldergrove	03·9	−6	S'E	2	c/d	55	97	54	6	6	2	–	7-8	10	800	1	*
Birr Castle	05·4	+2	WSW	2	ir	61	85	66	7	6	2	–	7-8	10	800	1	*
Valentia Obsy.	06·9	−18	SW'S	5	rr	60	97	59	6	6	–	–	10	10	1500	1	5
Roches Point	08·2	+6	W	4	c	63	85	58	8	5	7	–	4-6	9	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 10th (39)	Weather 13h.—18h. 10th (40)	Weather 18h. 10th to 1h. 11th (41)	Weather 1h.–7h. 11th (42)
London (Kew)	ror iromo	romo iro	crorc	crroc
Croydon	ccroro	crodo ido	cmoroRo	croromoc
S. Farnborough	ciroro	cido iromoc	cbeqc	cidoromorc
Boscombe Down	ccroromo	cromodoc	cbcb iro	croc iroc
Thorney Island	cmorr	crrcmoc	cbcc	cdorocmo
Lympne	croromo	cromodom	cbccmo	cmpfroro
Manston	ciro	crorodd zomo	cidobcc	cidoiroro
Shoeburyness	cmo iro crr	crrroro	c	croroc
Felixstowe	cciro	croroc	cidocmo	cmoc
Gorleston	cproc roro	cpro	czobc	cpododzo
Mildenhall	cciroc rrmo	cmorrddrmo	ccidmo	ciromoc
Cranwell	croromo	dodorcmorr	cidomo	ciromo
Birmingham	cororo	oiroc	cir	irc
Upper Heyford	ccroromo	cdodomodo	ccrroromo	rorododoc
Ross-on-Wye	crorod	dodocc	c	rocc
Hartland Point	crrirc	cir	cdodorr	rrirroc
Bristol	cidodidoro	dcmodoroc	dcidocdrmo	cmododocmo
Portland Bill	orr	oc	co	prro
Plymouth	crrmo	crmoc	cododo	ododomo
The Lizard	rrfr	rfcid	idfdc	comdf
Scilly (St. Mary's)	cmorrc	cidoc	idfdodo	ciroc
Guernsey				
Pembroke	crrmmcq	bccq	dodomocmo	cidomoq
Holyhead (Valley)	crodomo	c	oidororo	ocmo
Chester (Sealand)	croro iromo	cmodo	cmomrro	cmororoiro
Manchester	roroido	roromoido	idoddmo	ddir ido
Spurn Head	cmopro	ororo	ororo	croro
Catterick (Sc)	ciro	ciro mo	crorom	cirom
Tynemouth	c	c	ciro	coiromo
St. Abbs Head	cbc	bccmo	zmocido	cromoidc
Leuchars	ccmo	cmobcc	ccmo	cmodorormo
Renfrew (Abbots I.)	cmociroc	c	ccmoidomo	cmororocido
Eskdalemuir	cprcir	cmo	cmoro	orrdc
Point of Ayre	roro	rododoce	cbbroro	roroc
Tiree	cbcb	ccdoromo	cddidocmo	cdrmocmo
Stornoway	cbc	bcc	c	crrroromo
Dalwhinnie	cbc	bcc		copre
Aberdeen	bcc	cbcyb	bbcc	coroRRmo
Wick	cproc	bc	b	bbccmorr
Sumburgh	bcc	bc	b	bbcc
Blacksod Point	c	d	d	d
Malin Head	r	r	r	r
Aldergrove	cirorrid	cido cmo	idoccroro	cidomoiro
Birr Castle	r	r	*	r
Valentia Obsy.	r	r	r	r
Roches Point	d	bc	r	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 11th July

Districts	Forecast
1 S.E. England 2 E. England 3 E. Midlands	Moderate to fresh southwest winds; cloudy or dull with some drizzle at first; fairer periods later to-day but some further rain possible by morning: mainly close generally.
4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands	Fresh westerly winds backing southwest, probably strong locally on West coast; fair intervals at first, becoming dull with some further rain; rather close.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Southwesterly winds strong at times, especially on the coasts; mainly cloudy or dull; occasional rain; rather cool.
16 Orkneys and Shetlands	As 10–15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate westerly winds, backing southwest or south, temporarily increasing fresh to strong; bright periods early soon followed by some further rain; showery with bright periods to-morrow: mainly rather close.

GENERAL INFERENCE

A vigorous depression off the Hebrides is moving north and is probably being followed by a further disturbance on the Atlantic. Weather will be dull in the Southeast of England at first with some occasional drizzle. A short period of somewhat fairer conditions will spread to most districts but an early renewal of rain in the West is expected. Conditions will be mainly rather close or close.

FURTHER OUTLOOK

Bright periods; some showers especially in the East and North.

Forecasts issued at 1300

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Sunday 11th July 1943.

10° 5°W. 0° 5°E 10°

60° 55° 50°

LOW

HIGH

990 992 994 996 998 1000 1002 1004 1006 1008 1010 1012

Mb In.
1030 30.4
1020 30.1
1010 29.8
1000 29.5
990 29.2
980 28.9
970 28.6
960 28.3
950 28.0
940 27.7
930 27.4

STATION MODEL

High Cloud
Medium cloud
Low cloud
Total Amount of cloud
Wind
Barometer mb.
Bar. change in past 3 hours in mbs.
Weather in past hour
Past weather
Temperature °F.
Present weather
Visibility
Dew Point °F
Amount of Low cloud
Height of Low cloud
Code figure (one figure) or hundreds of feet (two figures)

Scale 1.: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Sunday 11th July,

1943.

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

TEMPERATURES is given in degrees F.

WEATHER SYMBOLS :— ◯ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ● Rain falling. ✱ Snow. ✱ Sleet. △ Hail. ≡ Fog. = Mist. (K) Thunderstorm. K Slight haze.

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 11th July 1943 — No. 2816

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	59	*	*	*	*	*	*	*	*	*
	Croydon ...	290	11·7	+4	WSW	3	$r_o r_o$	58	85	55	6	5	–	–	10	10	2700
	S. Farnborough	226	11·1	+2	W'S	4	c.	59	85	54	8	5	2	–	7-8	10	2000
	Boscombe Down	417	11·3	-6	SW'W	3	ir_o	58	85	53	7	5	–	–	4-6	10	1200
	Thorney Island	10	12·3	+2	SW'W	3	c	59	87	58	7	5	2	–	7-8	10	1500
	Lympne ..	283	11·6	-2	WSW	2	z_o	57	87	57	5	5	–	–	9+	9+	600
	Manston ...	154	11·2	+2	SW'W	3	id_o	59	92	57	6	–	7	–	0	10	—
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	09·4	-2	SW'W	3	z_o	60	85	56	6	5	2	–	4-6	10	2500
	Gorleston ...	5	09·1	+6	W	2	z_o	60	85	56	6	5	–	–	10	10	800
	Mildenhall ...	15	08·6	+2	SW'W	3	z_o	58	87	57	6	5	–	–	4-6	4-6	4000
	Cranwell ...	203	07·4	0	W'S	2	id_o	59	87	58	5	5	–	–	10	10	1000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·5	-2	SW	3	$r_o r_o$	57	87	56	6	5	2	–	9	10	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09·5	-8	W	5	rr	60	87	60	5	6	2	–	9	10	450
	Bristol	209	10·5	-12	SSW	4	rr	58	87	58	5	6	2	–	4-6	10	700
	Portland Bill ...	32	12·3	-6	SW	5	o	58	92	56	7	5	–	–	10	10	2500
	Plymouth ...	86	13·7	-6	WSW	5	o/d	59	87	59	5	5	–	–	10	10	600
	The Lizard ...	240	14·0	-2	W'N	5	o	59	87	59	7	5	–	–	10	10	1000
	Scilly (St.Mary's)	163	13·0	-6	SW'W	5	o/p	60	87	59	6	5	–	–	10	10	500
	Guernsey ...	175															
6	Pembroke ...	142	08·4	-14	W'S	6	c	59	87	59	7	8	–	–	10	10	2500
7	Holyhead (Valley)	32	04·7	-30	SSW	5	$r_o r_o$	57	87	57	5	6	2	–	10	10	700
	Chester (Sealand)	16	06·5	-10	SSW	1	$r_o r_o$	58	82	56	6	5	2	–	4-6	10	2000
8	Manchester ...	230	06·6	-2	S'W	3	dd	57	92	56	6	–	2	–	10	10	1600
10	Spurn Head ...	29	07·4	-4	SSW	3	$r_o r_o$	57	87	57	5	5	–	–	10	10	1500
	Catterick (Sc)...	192	06·0	-18	SE	2	m/r	54	87	54	4	–	2	–	10	10	600
	Tynemouth ...	108	06·2	-16	S	4	ir_o	54	87	53	7	8	–	–	9+	9+	2500
11	St. Abbs Head	280	04·4	-18	SE	4	id_o	53	87	52	6	5	–	–	10	10	2500
	Leuchars ...	36	03·4	-20	SSE	4	z_o	54	85	51	5	5	2	–	9	10	2500
12	Rentrew (Abbots L)	19	02·2	-24	E'N	2	$r_o r_o$	54	87	53	5	5	–	–	10	10	1200
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	03·0	-12	SW'S	2	$r_o r_o$	56	92	54	8	9	2	–	4-6	10	2500
13A	Tiree	44	07·7	-34	S	4	c/d	55	87	55	6	5	2	–	7-8	10	800
13B	Stornoway ...	12	09·1	-34	SE	4	c	55	85	51	7	5	2	–	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	04·1	-22	SSE	4	c	52	92	50	7	5	2	–	4-6	10	1000
	Wick ...	114	03·9	-18	SE'S	4	b-bc	51	92	49	9	4	–	1	2-3	2-3	2500
16	Sumburgh ..	19	06·2	-14	S'W	2	b-bc	51	85	47	8	5	3	–	2-3	2-3	1200
17	Blacknod Point	18	07·6	-14	SW	6	$d_o d_o$	58	87	57	6	6	2	–	4-6	10	1500
18	Malin Head ...	84	06·5	-38	S	4	ir_o	57	92	55	8	5	–	–	9+	9+	800
	Aldergrove ...	268	00·0	-30	S	3	id_o	56	92	54	5	–	2	–	10	10	700
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	05·6	-8	SW	5	dd	60	87	59	6	5	–	–	10	10	450
	Roches Point	22	06·7	-6	SW	5	dd	59	87	58	6	5	–	–	10	10	450

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12. (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	10·1	+2	SW'W	4	c	61	92	59	8	5	–	–	10	10	800	1	*
	Croydon ...	11·2	+2	S'W	4	c	62	92	59	8	5	–	–	7-8	10	800	1	*
	S. Farnborough	10·5	+4	WSW	4	c	62	92	58	8	6	7	–	9	10	800	1	*
	Boscombe Down	11·0	+2	SW	4	c	61	85	59	7	5	2	–	9	10	800	1	*
	Thorney Island	12·1	+2	SW'W	5	o/d	62	92	60	7	–	2	–	10	10	800	1	*
	Lympne ..	11·8	+2	WSW	4	c/r	60	87	60	5	6	2	–	9+	10	500	1	5
	Manston ...	10·6	-6	SW'W	4	c	62	92	59	7	5	2	–	9	10	400	1	*
2	Shoeburyness ...	10·7	-14	SW	3	c	62	92	60	8	5	–	–	10	10	1500	1	*
	Felixstowe ...	09·3	-2	SW	3	z_o	60	87	60	6	5	2	–	7-8	10	1500	1	3
	Gorleston ...	08·1	0	SW	3	$d_o d_o$	58	92	55	6	6	–	–	10	10	800	1	3
	Mildenhall ...	07·4	-8	SW	4	c	61	92	59	8	6	2	–	9	10	800	1	*
	Cranwell ...	05·3	-12	SW	4	c	62	92	60	7	5	7	–	4-6	9+	1500	1	*
3	Birmingham ...	06·3	0	SW	4	c/pr	60	92	58	8	5	7	–	7-8	9+	1500	1	*
	Upper Heyford	08·1	+2	SW'W	4	c	61	87	59	7	5	2	–	9+	10	500	1	*
4	Ross-on-Wye	07·9	0	SSW	5	c.	62	92	59	8	5	–	–	10	10	2000	1	*
5	Hartland Point	08·9	0	W	5	$d_o d_o$	60	87	60	5	5	–	–	10	10	400	1	5
	Bristol	10·1	+6	SW'S	3	id	61	87	60	5	6	–	–	10	10	220	1	*
	Portland Bill ...	12·3	+8	SW	5	o	60	92	58	7	5	–	–	10	10	2500	1	5
	Plymouth ...	13·1	0	WSW	5	$d_o d_o$	59	87	59	4	5	–	–	10	10	200	1	4
	The Lizard ...	13·1	0	SW	6	drizzle	59	87	59	3	5	–	–	10	10	800	1	3
	Scilly (St.Mary's)	12·1	+2	SW	5	o/r	60	87	60	6	5	–	–	10	10	600	1	4
	Guernsey ...																	
6	Pembroke ...	07·5	0	W'S	6	z_{oo}	59	87	59	6	5	–	–	10	10	2500	1	4
7	Holyhead (Valley)	04·0	+4	SW'S	6	bc/f	62	85	57	6	5	–	5	Tr	4-6	1000	1	4
	Chester (Sealand)	04·9	+4	SW'W	2	c	63	85	57	8	5	–	1	7-8	9	1200	1	*
8	Manchester ...	04·5	0	SSW	4	o/d	60	87	58	3	5	–	–	10	10	1000	1	*
10	Spurn Head ...	04·5	-18	S'W	4	c	59	92	57	7	5	2	–	7-8	10	1500	1	3
	Catterick (Sc)...	02·2	-12	SE	3	ir_o	57	87	57	5	5	7	–	7-8	10	1000	1	*
	Tynemouth ...	01·6	-20	S	3	o/r	56	92	54	5	–	2	–	10	10	2200	1	3
11	St. Abbs Head	08·2	-28	SSE	4	c/r	55	87	55	7	5	2	–	7-8	9+	1100	1	4
	Leuchars ...	07·1	-28	SE	1	$r_o r_o$	56	87	54	5	6	2	–	7-8	10	700	1	*
12	Rentrew (Abbots L)	07·0	-18	SW'S	4	id_o	61	92	58	7	5	7	–	7-8	9+	1200	1	*
	Eskdalemuir ...	07·6	-20	SW'S	6	c/d	57	87	56	6	5	–	–	9+	9+	500	1	*
	Point of Ayre...	00·0	+8	W	5	c-tc	60	92	58	8	2	7	–	4-6	7-8	2000	0	2
13A	Tiree	03·2	-2	SW	5	c/d	56	87	54	6	5	7	–	7-8	9+	400	1	5
13B	Stornoway ...	01·3	-44	ESE	6	$r_o r_o$	53	87	52	5	6	2	–	7-8	10	400	1	3
15	Dalwhinnie ...	05·0	-26	S	3	c	53	85	49	7	5	–	–	9+	9+	1500	1	*
	Aberdeen † ...	07·8	-30	SE'S	3	RR	54	97	53	5	–	2	–	10	10	450	1	3
	Wick ...	07·9	-26	SSE	4	rr	52	87	52	5	5	2	–	9	10	300	1	*
16	Sumburgh ..	02·7	-34	SSE	4	c	54	75	47	8	1	7	–	4-6	9+	1200	0	2
17	Blacknod Point	00·6	+20	W	5	c	57	85	53	8	6	3	–	2-3	9	2500	2	4
18	Malin Head ...	04·8	+4	WNW	7	id	57	75	50	8	5	–	–	9	9	800	1	4
	Aldergrove ...	09·2	+10	SW'S	4	c	55	85	53	8	5	–	–	7-8	9+	1000	1	*
19	Birr Castle ...	03·7	+18	WSW	3	ir	57	85	53	7	6	2	–	7-8	10	800	1	*
20	Valentia Obsy.	06·7	+10	WSW	4	id_o	57	92	55	7	5	–	–	10	10	1500	1	4
	Roches Point	06·3	+6	WSW	4	id_o	60	87	60	8	5	–	–	9+	9+	450	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 10th Hrs. (38)
1	London (Kew)	61	58	56	1	4	0·4
	Croydon ...	62	58	56	1	3	0·6
	S. Farnborough	62	57	53	1	2	0·3
	Boscombe Down	65	56	53	2	0·6	0·5
	Thorney Island	62	58	55	4	1	*
	Lympne ..	61	55	53	4	5	1·1
	Manston ...	63	57	57	1	2	2·4
2	Shoeburyness ...	64	57	57	2	2	1·0
	Felixstowe ...	61	56	56	1	1	1·0
	Gorleston ...	59	56	55	0·6	1	1·6
	Mildenhall ...	59	56	56	2	2	0·7
	Cranwell ...	57	49	46	4	0·1	0·0
3	Birmingham ...	61	56	54	3	3	0·0
	Upper Heyford	63	56	50	3	1	*
4	Ross-on-Wye	66	58	56	2	0·3	0·6
5	Hartland Point	61	59	58	9	2	0·8
	Bristol	63	58	55	3	3	0·3
	Portland Bill ...	62	56	*	8	0·5	*
	Plymouth ...	65	58	58	16	1	3·0
	The Lizard ...	61	57	*	7	0·5	0·0
	Scilly (St.Mary's)	63	59	*	6	0·1	0·4
	Guernsey ...						
6	Pembroke ...	61	57	*	4	4	2·5
7	Holyhead (Valley)	61	56	56	3	8	*
	Chester (Sealand)	59	57	56	2	2	0·0
8	Manchester ...	58	57	56	4	3	*
10	Spurn Head ...	58	53	*	2	3	0·1
	Catterick (Sc)...	59	53	42	Tr	1	2·1
	Tynemouth ...	58	54	50	-	1	*
11	St. Abbs Head	62	52	*	-	1	*
	Leuchars ...	63	53	53	-	1	5·6
12	Rentrew (Abbots L)	61	54	51	Tr	3	0·3
	Eskdalemuir ...	56	50	51	1	8	0·4
	Point of Ayre...	56	51	*	3	2	0·0
13A	Tiree	58	52	52	Tr	10	2·3
13B	Stornoway ...	60	52	51	Tr	14	4·2
15	Dalwhinnie ...	61	49	47	-	2	3·9
	Aberdeen † ...	60	52	48	-	10	12·3
	Wick ...	58	51	49	1	6	*
16	Sumburgh ..	58	49	37	-	-	12·7
17	Blacknod Point	61	55	*	0·5	7	*
18	Malin Head ...	57	55		1	3	0·6
	Aldergrove ...	56	54	51	1	5	0·0
19	Birr Castle ...	62	55	50	1	8	0·3
20	Valentia Obsy.	63	57	56	4	2	1·5
	Roches Point	67	59		0·3	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 10th July – 18h. G.M.T. 01h. G.M.T. 11th July – 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	8-	02845	26225	00	00880	12310	53	01743	12404
115	54	02854	20324	54	02854	08424	52	02844	08187
203							5-	02867	08327
206	23	01963	08224	57	61855	12116	5-	02855	10125
210	36	02963	01225	16	01962	12418	57	02864	11427
219	87	02854	17325				62	66426	46568
230	5-	02966	10168	57	02966	10227	62	64645	08168
245	14	02862	12425	14	01861	13411	52	05564	14428
260	7-	02844	08228	5-	02754	20425	5-	62428	04228
278	57	61847	10468	5-	52628	12468	62	62638	14268
279	12	22754	14368	57	02865	20328	52	62646	18268
285	22	61755	16468						
288	57	61854	16268	52	02845	12866	62	61645	15168
575				52	21854	20458	62	51736	17368
301	52	62545	12468	52	61545	11368	52	61665	20468
321	52	62644	15368	62	54527	12368	5-	52548	18258
290	5-	02747	20327	5-	22747	12467	52	47138	12448
292	52	61644	16228	62	62636	11368	62	62536	13208
310									
614	62	62544	16268	52	51435	14158	52	61654	24367

13h. G.M.T. 10th July – 18h. G.M.T. 01h. G.M.T. 11th July – 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
388	52	51637	14168				62	62634	20468
334	--	53547	26288	--	53537	26388			
340	62	22735	14468	57	02765	20267	52	62645	20368
136	72	62745	20368	62	54527	16368	5-	05658	18258
386	62	62526	20368	62	62526	24468			
850	62	54645	20268	58	21744	09159	62	62645	22368
368	5-	51545	20368	5-	61635	22457	52	62635	24468
379	62	62625	18468	57	02734	55467	57	51735	20568
390	62	62444	18268	52	51436	18258	52	61688	20268
382	62	52745	18368	57	02844	23425	52	21767	22258
438	62	62745	20468				5-	03538	22628
430	5-	64438	53468	52	05626	54568	5-	05648	24328
409	5-	22408	54568	5-	61728	22428	5-	43328	17558

	$C_L C_M$	wwVhN$_h$	DDFWN
	62	05615	51557
	52	52736	18358
	5-	61627	18368
	62	02837	55468
	5-	21634	57547
	62	61625	53568
	5-	51936	22358
	5-	57109	20649
	5-	21626	53568
	5-	57208	21658

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 09h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 11th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew ...	$r_o ir_o m_o$	$r_o m_o ir_o$	$cr_o cr_o c$
Croydon ...	$ccr_o r_o$	$cr_o d_o i d_o$	$r_o r_o m_o c$
Greenwich ...	c	cir	$cr_o rrc$
Camden Square	cr	cr	*
Kensington ...	crc	crmx	*
Hampstead ...	or	or	od

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time
<0·1 Whole Min. Time Period.

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	61	58	56	1	4	0·4	*	*
Croydon ...	62	58	56	1	3	0·6	*	*
Greenwich ...	64	56	56	0·3	6	0·2	88	87
Westminster ...	64	56	55		5		79	90
Regents Park ...								
Camden Square	63	55	55	2	4	*	*	88
Kensington ...	63	57	56	1	4		82	91
Hampstead ...	59	53	51	1	5		*	94

SECRET

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BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 12th July 1943 — No. 2387

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	10·3	+2	WSW	3	ir₀	66	85	60	8	5	–	–	10	10	800
	Croydon ...	12·1	+6	SW	4	c	66	85	60	8	5	–	–	4-6	10	900
	S. Farnborough	11·6	+2	WSW	4	c	67	85	61	8	5	2	–	3	10	900
	Boscombe Down	11·2	0	SW	4	ido	65	85	59	7	5	–	–	7-8	10	800
	Thorney Island	13·0	−6	SW	5	ido	63	97	62	6	–	2	–	10	10	800
	Lympne ...	12·8	+8	WSW	5	ido	62	92	60	6	5	–	–	10	10	600
	Manston ...	11·0	+4	SW	5	c	66	85	61	7	5	–	–	10	10	1000
2	Cromerbury ness ...	11·4	+4	SW	4	c	68	85	63	7	5	–	–	10	10	1500
	Felixstowe ...	09·5	+6	SW'S	5	c	68	92	65	7	5	–	–	10	10	1500
	Gorleston ...	07·9	+8	W'S	4	c	60	75	50	7	8	4	–	7-8	9+	1000
	Mildenhall ...	08·3	+10	WSW	5	c	69	75	60	8	7	–	–	9+	9+	2000
	Cranwell ...	06·2	+4	W'S	5	cbc	72	65	61	8	8	6	–	7-8	7-8	2500
3	Birmingham ...	07·8	+6	WSW	4	pr	67	85	62	8	8	–	–	9+	9+	1500
	Upper Heyford	08·7	+2	W'S	5	c/d	65	85	60	8	5	–	–	9	9+	900
4	Ross-on-Wye	08·9	+2	WSW	4	c	67	75	59	8	5	–	–	10	10	2500
5	Hartland Point	10·0	+6	W	5	rf	60	97	60	1	–	–	–	10	10	⅄150
	Bristol ...	11·4	+10	WSW	4	DD	65	97	65	5	5	–	–	10	10	450
	Portland Bill ...	13·3	+6	SW	5	o	60	92	58	7	5	–	–	10	10	2500
	Plymouth ...	14·1	+6	WSW	5	dodo	60	97	60	4	5	–	–	10	10	100
	The Lizard ...	13·7	0	WSW	6	of	60	97	60	3	5	–	–	10	10	600
	Scilly (St. Mary's)	12·6	0	SW'W	5	o/d	60	97	60	5	5	–	–	10	10	400
	Guernsey ...															
6	Pembroke ...	09·3	+2	W'S	5	cq	60	97	60	6	5	2	–	4-6	10	2500
7	Holyhead (Valley)	06·1	+6	SSW	5	bcjf	63	92	61	6	8	6	3	4-6	4-6	2000
	Chester (Sealand)	05·4	0	WSW	4	bc	73	55	56	8	8	–	–	4-6	4-6	2500
8	Manchester ...	05·9	+8	WNW	4	cbc	67	75	58	8	2	6	–	4-6	7-8	2500
10	Spurn Head ...	04·8	+4	W	6	cbc	63	65	55	7	2	3	–	4-6	7-8	2500
	Catterick (Sc.) ...	04·0	+20	SW	4	cbc	65	55	49	8	8	6	2	4-6	7-8	3000
	Tynemouth ...	02·5	+16	W	5	cbcq	67	55	50	7	2	–	–	7-8	7-8	2200
11	St. Abbs Head	97·6	+4	W	5	bc	66	55	47	8	1	4	–	4-6	4-6	3000
	Leuchars ...	97·6	+10	WSW	6	bc	63	65	52	8	8	6	–	4-6	4-6	2500
12	Renfrew (Abbotsl.)	01·0	+16	WSW	4	cpr	61	75	53	8	8	–	–	7-8	9	1800
	Eskdalemuir ...	00·4	+12	SW'W	6	bc	62	55	48	8	5	–	1	4-6	4-6	2200
	Point of Ayre ...	04·1	+20	W'N	5	cbc	68	65	54	8	1	4	6	Tr	7-8	3000
13A	Tiree	98·0	+34	SW	5	c	59	85	54	8	2	3	–	9	9+	1200
13B	Stornoway ...	98·2	+14	SW	6	c/d	59	85	54	8	5	–	–	9+	9+	1500
15	Dalwhinnie ...	98·0	+10	SW	3	c	56	86	49	7	5	–	–	9+	9+	1500
	Aberdeen ...	92·2	−8	SW'W	5	bc	67	65	54	8	1	4	–	4-6	4-6	2000
	Wick ...	94·4	−6	SSE	4	cbc/pr	57	85	53	6	8	7	–	4-6	7-8	2500
16	Sumburgh ...	98·8	−18	SSE	6	rdrq	53	92	50	8	6	2	–	4-6	10	1000
17	Blacksod Point	02·8	+4	WSW	5	c	60	65	48	8	8	–	6	4-6	9	2500
18	Malin Head ...	99·7	+28	W	8	bc	60	65	48	8	8	–	–	4-6	4-6	1500
	Aldergrove ...	02·8	+10	WSW	4	c	61	65	51	9	8	–	–	9	9+	2000
19	Birr Castle ...	05·1	+2	WSW	4	cbc	64	65	52	8	8	–	–	7-8	7-8	1500
20	Valentia Obsy.	07·0	+6	SW'S	4	c	61	75	53	9	7	–	5	7-8	9+	4000
	Roches Point	07·6	+4	W'S	4	cbc	53	85	49	8	5	–	5	4-6	7-8	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	11·1	+4	SW	4	c	65	85	60	8	5	–	–	10	10	1500	1	*
	Croydon ...	12·3	+2	S	4	c	65	85	60	8	5	–	–	10	10	1500	1	*
	S. Farnborough	11·5	−2	WSW	4	c	64	85	61	8	5	7	–	9+	10	1200	1	*
	Boscombe Down	11·8	−2	SW	4	rdrq	61	92	60	6	5	–	–	10	10	600	1	*
	Thorney Island	13·1	−2	SW	5	dodo	62	92	59	6	6	2	–	9+	10	600	1	*
	Lympne ...	13·0	+2	SW'W	5	zo	62	92	59	6	5	–	–	10	10	500	1	5
	Manston ...	12·0	+6	SW	4	c/d	64	85	61	7	5	–	–	9+	10	900	1	*
2	Cromerbury ness ...	11·6	+2	SW	4	c	67	85	60	7	5	4	–	9	9+	1500	1	*
	Felixstowe ...	10·2	+6	SSW	4	c	67	85	63	7	5	2	–	7-8	9+	2500	0	4
	Gorleston ...	08·5	0	SW	4	c	71	75	62	7	2	3	–	4-6	9	1500	0	3
	Mildenhall ...	08·3	+2	SW'W	5	c	70	65	59	8	5	3	–	7-8	9+	2500	1	*
	Cranwell ...	06·5	+2	W'S	5	bc	72	65	60	9	2	3	2	4-6	4-6	2000	1	*
3	Birmingham ...	07·9	+2	SW	4	c	65	75	57	8	5	–	–	10	10	1500	1	*
	Upper Heyford	09·1	+2	SW'W	4	c	65	85	60	8	5	7	–	9	10	1800	1	*
4	Ross-on-Wye	08·9	−4	SW'W	4	c	64	85	59	8	5	7	–	7-8	9+	2500	0	*
5	Hartland Point	08·7	−8	W	5	rf	60	97	60	3	–	–	–	10	10	⅄150	1	5
	Bristol ...	10·9	−4	WSW	4	ir₀	64	97	63	8	5	1	–	9+	9+	450	1	*
	Portland Bill ...	13·7	0	SW	5	f	60	92	58	2	5	–	–	10	10	⅄150	1	5
	Plymouth ...	13·4	−6	SW	5	dodo	60	97	60	5	5	–	–	10	10	200	1	4
	The Lizard ...	13·0	−6	WSW	6	of	59	97	59	3	5	–	–	10	10	400	1	5
	Scilly (St. Mary's)	11·3	−14	SW	5	c	60	97	60	6	5	–	–	10	10	400	1	4
	Guernsey ...																	
6	Pembroke ...	08·4	−2	WSW	5	rf	59	97	59	1	–	–	–	10	10	⅄150	1	4
7	Holyhead (Valley)	04·8	−18	SSW	5	c	60	92	58	8	5	7	5	1	9+	200	1	4
	Chester (Sealand)	05·5	0	WSW	3	cbc	67	65	55	7	4	6	–	4-6	7-8	3000	0	*
8	Manchester ...	05·9	0	SW	3	cbc	67	65	55	8	2	–	9	7-8	7-8	2500	0	*
10	Spurn Head ...	05·2	0	WSW	5	cbc	71	55	53	7	2	3	2	4-6	7-8	2500	0	3
	Catterick (Sc.) ...	04·6	+6	W	3	cbc	67	55	49	8	7	–	5	4-6	7-8	3000	0	*
	Tynemouth ...	03·6	+2	W	4	cbc	68	45	49	7	1	4	–	4-6	7-8	2200	0	3
11	St. Abbs Head	00·9	+6	WNW	4	c	65	55	49	8	5	7	–	7-8	9+	3500	0	4
	Leuchars ...	00·0	+4	W	6	bc	62	55	44	8	4	4	2	2-3	4-6	3000	0	*
12	Renfrew (Abbotsl.)	01·3	0	W'S	3	c	61	65	50	9	8	3	6	4-6	9	2500	1	*
	Eskdalemuir ...	00·7	+6	SW	6	cbc	69	75	49	8	5	7	1	4-6	7-8	1800	0	*
	Point of Ayre ...	03·3	−4	W	4	cbc	65	55	50	8	5	7	6	4-6	7-8	4000	0	3
13A	Tiree	99·4	−2	WSW	8	~~cbc~~ rf	57	75	50	5	7	3	–	2-3	2-3	2500	0	4
13B	Stornoway ...	94·2	+10	SW	6	c	57	75	49	8	5	2	–	4-6	9+	1500	1	4
15	Dalwhinnie ...	99·5	+14	SW	4	cbc	53	75	45	7	5	–	–	7-8	7-8	2500	0	
	Aberdeen ...	97·8	+12	WSW	3	c	66	55	48	8	4	7	9	2-3	9+	5700	1	3
	Wick ...	06·0	+6	SW	4	c	61	75	50	9	5	7	–	4-6	9+	2500	0	*
16	Sumburgh ...	95·1	−18	SE	6	rdrq	53	97	53	6	6	2	–	9	10	400	1	3
17	Blacksod Point	00·7	−22	SSW	5	bc	58	75	50	8	8	–	–	4-6	4-6	2500	1	4
18	Malin Head ...	00·3	−8	WSW	5	bc	59	65	47	8	8	–	–	4-6	4-6	1500	1	4
	Aldergrove ...	01·7	−12	SW	4	c	62	65	48	9	7	7	–	7-8	9+	5500	1	*
19	Birr Castle ...	02·4	−24	WSW	2	c	63	75	55	8	5	–	–	7-8	9+	2500	1	*
20	Valentia Obsy.	03·6	−22	SW'S	4	ir₀	58	97	57	6	5	–	–	10	10	800	1	4
	Roches Point	04·6	−26	SSW	4	dd	59	97	58	5	5	–	–	10	10	450	1	4

PAST 24 HOURS.

Weather. 7h.—13h. 11th (39)	13h.—18h. 11th (40)	18h. 11th to 1h. 12th (41)	1h.—7h. 12th (42)
cr₀cir₀	cirbc	cir₀cr₀c	cidd₀id₀
c	c	ccdd₀r₀	crrddm₀
cidoc	ir₀c	prc₀mdd₀	cdd₀m₀
ccido	cidorro	cc₀mdc	ccidm₀
cm₀ido	cm₀dodo	dd₀m₀	ddd₀idd₀
cir₀moido	cidom₀	cir₀cm₀	cmid₀
cir₀moc	cido	cidrm₀	cid₀m₀
cprbc	c		cr₀r₀
cirbc	c	cir₀cm₀	cm₀c
cidbc	c	copridc	cpr₀
ccirbc	c	cir₀cr	cir₀
cdodoc	bcvcvbcv	bcycir₀	cir₀cbc
cmpr	cbcc		rrbc
idomoc	c	cdd₀idmddvDc	
c	cdocc		fcbcrr
orf	rfdf	Mfd Fir	oirc
oiddodoDDoDdridairfc₀Rcevc			circ₀RRcc
o	off	o	odd
ododom₀	odd₀m	odd₀m	r₀m₀bcpr
oddff	ddrrf	odfdo	rfcbc
coido	oirdoc	coid₀	idrrcbc
cmoq	ododorf	crrrm	cprq
bcc	bcofc	orridd₀	bccpr
cbcy	bcvy	rrrrm₀	em₀id₀
c	bcbcy	rrRRir	crrb
bc	c	cir₀	prc
cir₀cm₀bc	bcycbcy	cr₀gm₀ir₀	cpr₀cbc
cq	c	coir₀	bcprbc
bc	bcc	cbcc	cthr₀bc
r₀m₀pr₀bc	bcccy	ccm₀bc	bcwpr₀
cid₀pr₀bcc	cyc	ccm₀wbcm₀	ccmwcwpr₀
cpr₀bc	bcyc	bccHr	cRR
cbcc	cbc	c	cbcc
cir₀cm₀bc	bc	cbccpr₀c	cirrcpr₀pr
cpr₀	c		cpro
rriDmcbc	bcycy	cybcbw	bbcw
cr₀r₀m₀c	c	bc	bcc
cr₀r₀	cdodorrm₀	r₀r₀ir₀	bcc
c	bc	bc	pr
pr	c	T	pr
cir₀cbcc	cbcc	cbcb	bbccrir₀bc
r	c	*	r
r	r	pr	pr
d	d	d.	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 12th July 1943

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
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Moderate to fresh southwest to west winds; dull and rainy at first, soon clearing with bright periods but local showers later; rather cool.

Fresh westerly winds, strong locally, moderating; local showers and bright periods; chance of thunder in north; rather cool.

16 Orkneys and Shetlands	As 1
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 2-15

GENERAL INFERENCE

A depression centred near the Faeroes and a trough extending from Shetland to Southeast England is moving east; it will be dull and rainy at first in Orkney Shetland and in Southeast England, but otherwise weather will be of a showery type with local thunder in the North, but with considerable bright periods in most districts; it will be generally rather cool.

FURTHER OUTLOOK

Unsettled with further rain spreading northeast across the British Isles.

Forecasts issued at 10·30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Monday 12th July 1943.

L°W

HIGH

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud { Code figure (one figure) or hundreds of feet (two figures)

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Monday 12th July,

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— ◯ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ⊕ Rain falling. ✱ Snow. ⅌ Sleet. △ Hail. Fog. ≡ Mist. = Thunder. (K) Thunderstorm. K Slight haze. ∞

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 12th July 1943 — No. 29817

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	61	*	*	*	*	*	*	*	*	*
	Croydon ...	290	12·2	-2	SSW	5	$r_o r_o$	61	92	59	7	5	2	-	7-8	10	600
	S. Farnborough	226	10·8	-10	SW'W	4	$d_o d_o$	60	92	59	7	5	-	-	10	10	1200
	Boscombe Down	417	11·0	-7	SW'S	4	c/d	58	97	58	6	5	-	-	10	10	500
	Thorney Island	10	12·6	-4	SW	5	$d_o d_o$	60	97	59	6	-	2	-	10	10	500
	Lympne ..	283	13·1	-4	SW	4	z_o	59	97	58	5	5	-	-	10	10	500
	Manston ...	154	12·0	-6	SSW	4	c-bc	61	92	60	6	5	3	8	4-6	7-8	1200
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	10·3	-4	SSW	4	z_o	62	92	60	6	5	-	-	10	10	1100
	Gorleston ...	5	08·8	-4	SW	4	c	63	85	60	7	6	-	-	10	10	800
	Mildenhall ...	15	08·1	-10	SSW	4	c	63	85	60	7	5	-	-	9	10	1400
	Cranwell ...	203	05·4	-10	SW	5	ir_o	62	97	62	7	5	2	-	2-3	10	1000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	08·3	-6	SW'S	4	c/d	61	92	59	6	6	2	-	9	10	700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	05·9	-14	W	6	ir	59	97	59	6	5	-	-	10	10	450
	Bristol	209	08·9	-6	SW	5	c	62	92	60	8	5	-	-	10	10	1400
	Portland Bill ...	32	12·3	-8	SW	5	o	58	92	56	7	5	-	-	10	10	2500
	Plymouth ...	86	11·3	-10	W'S	6	c/d	59	97	59	6	5	-	-	10	10	500
	The Lizard ...	240	10·8	-12	WSW	6	id_o	59	97	59	6	5	-	-	10	10	800
	Scilly (St.Mary's)	163	09·0	-12	SW'S	5	dr	60	97	60	5	5	-	-	6	10	400
	Guernsey ...	175															
6	Pembroke ...	142	05·1	-4	WSW	6	++	59	97	59	6	5	-	-	10	10	2500
7	Holyhead (Valley)	32	01·9	-16	SW'S	6	$r_o r_o$	58	97	58	4	5	-	-	10	10	400
	Chester (Sealand)	16	03·2	-12	SW'S	3	$r_o r_o$	61	92	59	6	5	1	-	4-6	9	2000
8	Manchester ...	230	03·2	-18	S	5	ir	61	92	60	7	6	2	-	7-8	10	1000
10	Spurn Head ...	29	05·2	-10	SW	5	ir_o	62	92	59	7	5	2	-	4-6	10	1500
	Catterick (Sc)...	192	00·8	-28	NW	3	ir_o	60	97	60	7	5	7	-	7-8	10	1500
	Tynemouth ...	108	01·8	-24	S	3	ir_o	61	85	56	7	-	2	-	10	10	1500
11	St. Abbs Head	280	99·7	-14	S	3	c	55	85	49	7	5	-	-	9	9	2500
	Leuchars ...	36	98·1	-26	-	0	bc	58	85	49	7	5	3	8	2-3	4-6	4000
12	Renfrew (Abbots L.)	19	98·4	-22	SE'S	1	z_o	55	85	51	6	5	7	-	4-6	7-8	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	98·5	-16	WSW	3	c	59	92	57	8	8	-	-	9	9	1800
13A	Tiree	44	95·5	-8	S	3	c	55	85	50	8	5	-	-	9+	9+	2000
13B	Stornoway ...	12	93·9	-18	SSW	5	c/pr	52	92	50	8	8	7	-	7-8	9+	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	98·2	-14	SW	1	c	51	85	47	9	5	7	-	4-6	9	3100
	Wick ...	114	97·1	-4	SSW	3	bc	53	85	47	9	5	7	-	4-6	4-6	2500
16	Sumburgh ..	19	96·5	+6	WSW	4	b-bc/r	53	85	49	8	-	3	-	0	2-3	-
17	Blacksod Point	18	97·7	-4	WSW	5	bc	54	75	46	8	9	-	-	4-6	4-6	2500
18	Malin Head ...	84	96·0	-22	S	3	c-bc	53	85	49	8	5	-	-	7-8	7-8	1500
	Aldergrove ...	268	98·8	-14	SW'S	2	b	54	75	46	7	5	-	-	1	1	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	03·7	0	SW'W	5	b-bc/pr	55	85	50	8	2	-	-	2-3	2-3	2500
	Roches Point	22	04·6	+14	W	4	b	55	92	53	8	5	-	-	1	1	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	08·4	-4	SW	4	id_o	61	92	58	7	5	-	-	10	10	800	1	*
	Croydon ...	10·2	-4	SSW	5	$d_o d_o$	60	92	58	6	5	-	-	10	10	600	1	*
	S. Farnborough	08·1	-4	SW	4	$r_o r_o$	60	97	59	5	5	-	-	10	10	700	1	*
	Boscombe Down	08·9	-2	SW	4	ir_o	60	97	59	7	5	2	-	9+	10	800	1	*
	Thorney Island	10·8	-8	SW	5	$d_o d_o$	60	97	59	6	6	2	-	9	10	500	1	*
	Lympne ..	11·4	-4	SW'W	4	c/d	59	97	58	6	5	-	-	10	10	200	1	4
	Manston ...	11·1	-2	SW	4	id_o	60	92	58	7	5	7	-	9+	10	800	1	*
2	Shoeburyness ...	10·6	-6	SW	4	c	62	85	57	8	5	-	-	10	10	1500	1	*
	Felixstowe ...	09·0	+2	SSW	5	c	62	92	60	8	5	2	-	9+	10	1500	0	5
	Gorleston ...	07·5	-4	SW	4	c	63	85	60	7	5	-	-	10	10	1900	1	3
	Mildenhall ...	06·8	-2	SSW	4	ir_o	60	92	58	7	5	3	-	7-8	9+	800	1	*
	Cranwell ...	04·4	-2	W'S	6	bc	64	85	59	8	5	-	1	4-6	4-6	2000	1	*
3	Birmingham ...	05·4	+6	W	4	b-bc	60	75	52	8	5	-	4	1	2-3	2500	1	*
	Upper Heyford	06·4	-2	WSW	3	c/d	60	97	59	8	8	3	1	7-8	9	600	1	*
4	Ross-on-Wye	07·1	+10	W'S	4	b-bc	59	75	50	8	2	-	2	Tr	2-3	3000	1	*
5	Hartland Point	07·8	+14	W	5	c-bc	58	85	54	8	2	-	3	7-8	7-8	1800	1	4
	Bristol	08·6	+6	WSW	4	c-bc	60	85	55	8	1	3	2	1	7-8	4000	1	*
	Portland Bill ...	09·8	-6	SW	6	dd	60	85	56	7	5	-	-	10	10	2500	1	5
	Plymouth ...	10·6	+8	W	4	c-bc	59	92	57	8	5	-	6	1	7-8	2000	1	3
	The Lizard ...	11·1	+14	W	5	bc	59	92	57	8	5	4	-	4-6	4-6	2500	1	4
	Scilly (St.Mary's)	10·9	+14	WSW	5	bc	58	85	54	8	5	-	-	2-3	4-6	1400	1	5
6	Pembroke ...	07·0	+4	W	5	c-bcq	55	85	55	8	8	6	-	4-6	7-8	2500	1	4
7	Holyhead (Valley)	03·2	+10	SW'W	6	bc	57	85	53	8	8	8	-	2-3	4-6	2000	1	5
	Chester (Sealand)	04·0	+10	SW	3	pr	57	85	51	6	8	-	-	7-8	7-8	2000	1	*
8	Manchester ...	03·9	+12	SW	4	bc	58	75	50	9	2	6	1	1	4-6	3000	1	*
10	Spurn Head ...	03·2	+4	WSW	5	bcq	63	85	60	7	3	-	-	4-6	4-6	1500	1	4
	Catterick (Sc)...	01·3	-14	WSW	4	bc	59	75	49	8	8	-	-	4-6	4-6	2500	0	*
	Tynemouth ...	99·8	+8	SW	3	bc	61	65	50	7	2	-	-	4-6	4-6	2000	1	2
11	St. Abbs Head	96·2	-8	SSW	3	bc/r	56	97	55	8	2	-	-	4-6	4-6	2500	1	3
	Leuchars ...	95·2	-8	SW	4	c-bc	57	75	50	7	2	4	-	2-3	7-8	2500	1	*
12	Renfrew (Abbots L.)	96·9	-2	SW	4	c-bc/pr	54	85	49	8	8	7	-	7-8	7-8	2500	1	*
	Eskdalemuir ...	97·5	+6	SW	6	RR	51	92	48	4	-	2	-	10	10	800	1	*
	Point of Ayre...	99·9	+8	W'N	6	bc	57	85	50	8	2	4	-	2-3	4-6	3000	0	4
13A	Tiree	93·5	-2	SW	4	c-bc	55	75	48	8	8	-	-	7-8	7-8	2500	1	3
13B	Stornoway ...	89·1	-24	SSW	6	pr	53	85	50	8	8	3	-	9	9+	1200	1	4
15	Dalwhinnie ...	93·5	-16	WSW	3	pr	47	92	44	7	5	2	-	4-6	10	1500	1	*
	Aberdeen † ...	93·9	-20	SSW	1	c-bc	56	85	50	8	7	4	-	7-8	7-8	5000	0	1
	Wick ...	93·3	-18	SSE	2	c-bc	58	75	49	9	-	7	-	0	7-8	-	0	*
16	Sumburgh ..	91·5	+20	SE	4	c	55	75	48	8	5	-	-	9+	9+	3000	0	2
17	Blacksod Point	98·8	+10	W'S	6	bc/pr	52	75	45	8	9	-	-	4-6	4-6	2500	1	4
18	Malin Head ...	95·6	+2	SW'S	4	c-bc/pr	53	85	49	8	8	-	-	7-8	7-8	1500	1	3
	Aldergrove ...	99·6	+10	SW'S	4	bc	54	75	45	8	8	6	-	4-6	4-6	2000	1	*
19	Birr Castle ...	02·3	+1	SSW	4	bc	55	85	51	8	5	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	05·8	+14	WSW	5	bc/pr	55	75	48	8	2	-	-	4-6	4-6	2500	1	4
	Roches Point	06·4	+16	W	4	b-bc	56	85	52	8	3	-	-	2-3	2-3	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 11th Hrs. (38)
1	London (Kew)	68	60	59	0·1	1	0·1
	Croydon ...	67	59	58	-	0·4	0·0
	S. Farnborough	67	59	58	Tr	1	0·2
	Boscombe Down	71	57	57	0·6	2	0·0
	Thorney Island	65	59	58	Tr	Tr	*
	Lympne ..	63	57	51	Tr	0·3	0·0
	Manston ...	67	59	59	0·1	0·3	0·0
2	Shoeburyness ...	70	60	59	0·1	1	0·4
	Felixstowe ...	71	61	59	0·4	1	1·0
	Gorleston ...	72	62	60	Tr	Tr	1·5
	Mildenhall ...	74	60	60	Tr	1	3·3
	Cranwell ...	75	61	60	Tr	1	7·1
3	Birmingham ...	67	59	55	0·5	5	3·3
	Upper Heyford	67	59	53	0·1	1	*
4	Ross-on-Wye	68	58	58	Tr	9	0·1
5	Hartland Point	66	57	56	3	3	0·0
	Bristol	65	58	57	7	4	0·0
	Portland Bill ...	64	56	*	-	0·6	*
	Plymouth ...	60	58	57	1	7	0·0
	The Lizard ...	67	55	*	Tr	3	0·0
	Scilly (St.Mary's)	61	56	*	0·1	1	0·0
6	Pembroke ...	61	53	*	2	12	0·0
7	Holyhead (Valley)	64	55	51	-	5	*
	Chester (Sealand)	73	57	51	Tr	3	10·4
8	Manchester ...	70	57	53	-	7	*
10	Spurn Head ...	72	61	*	-	2	7·7
	Catterick (Sc)...	68	57	52	Tr	2	4·4
	Tynemouth ...	68	57	57	-	7	*
11	St. Abbs Head	68	53	*	Tr	-	*
	Leuchars ...	67	51	41	0·2	0·1	6·6
12	Renfrew (Abbots L.)	65	52	44	0·5	0·2	7·6
	Eskdalemuir ...	64	50	48	0·2	8	8·3
	Point of Ayre...	69	53	*	-	-	6·3
13A	Tiree	69	53	47	0·1	2	3·3
13B	Stornoway ...	61	51	50	2	2	2·2
15	Dalwhinnie ...	57	46	40	1	2	1·3
	Aberdeen † ...	68	53	46	1	-	6·0
	Wick ...	64	51	45	7	Tr	*
16	Sumburgh ..	55	51	46	8	0·4	2·2
17	Blacksod Point	61	52	*	Tr	1	*
18	Malin Head ...	60	51	*	0·4	2	5·8
	Aldergrove ...	65	51	48	0·3	0·1	6·1
19	Birr Castle ...	65	50	47	0·1	2	3·6
20	Valentia Obsy.	63	48	42	Tr	2	2·1
	Roches Point	65	56	*	0·5	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 11th July					18h. G.M.T.				01h. G.M.T. 12th July				07h. G.M.T.			
IIIC$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN
109 5-	02638	45628	59	02864	22465	53	01753	18314	58	02953	17226						
115						57	02844	20426									
202			8-	02847	20687												
206 8-	25857	22367	86	81854	55565	50	01363	24183	57	51855	00067						
210 83	02856	53427	26	02954	54527	53	02864	12215	83	02865	19366						
219 83	01844	22654	37	02843	20685	87	02854	18588	23	81846	18687						
230 6-	21744	53555	83	10354	21425	8-	81748	00088	87	02855	20387						
245 80	02955	57565	85	02954	55424	53	05656	20127	84	01744	19314						
260 80	02844	22515	10	02854	53524	50	01753	00003	9-	64668	20328						
278 87	02855	23327	77	02955	16257	5-	22853	13264	54	01843	22383						
279 20	02863	22525	--	02863	53626	62	62627	20468	86	25845	55586						
285									23	01744	22614						
288 16	02954	55525	16	02951	54525	62	62744	15468	14	01951	21512						
575 8-	02856	55426	86	02958	49425	53	01863	16213	36	01854	-2414						
301 26	01851	22584	87	02856	22317	62	62536	20468	86	81944	22687						
321 20	01754	24424	26	01864	22424	5-	62758	18468	20	01753	22363						
299 24	01754	22514	14	01763	22414	5-	01756	20216	80	22744	22364						
292			54	02954	23415	57	17368	01661	80	01854	55414						
310									--	01634	24514						
214 2-	02865	55425	80	02844	55425												

13h. G.M.T. 11th July					18h. G.M.T.				01h. G.M.T. 12th July				07h. G.M.T.			
IIIC$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN	C$_L$ C$_M$	wwVhN$_h$	DDFWN
388			5-	08408	51558	5-	52428	51558	53	02746	55555						
334									--	63647	27288						
340 86	01954	53484	57	02854	53426	52	62645	18468	54	01943	56464						
136 83	02835	20427	77	02854	20525	5-	61744	20568	5-	51835	20568						
336																	
350 53	02845	54657	57	02854	53427	5-	22634	20478	5-	21635	52467						
368 52	52635	55558	5-	52535	55458	5-	62638	53468	80	01854	24365						
379 62	51836	53468	62	51826	55558	5-	51618	55568	57	21754	53466						
390 5-	21547	53367	5-	22637	53367	5-	05648	22568	5-	67338	18358						
382 57	51745	22458	62	51736	22358	5-	21738	51158	57	51735	28367						
438 --	48103	22649	--	57009	22649	--	48103	22619	8-	02747	22557						
430 5-	05538	55558				5-	63528	57568	5-	52428	52558						
409 51	52508	54658	5-	58628	53668	5-	52528	52558	50	02844	21527						

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$ C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 12th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew ...	cro cir$_o$	cir$_o$c	cir$_o$id$_o$
Croydon ...	c	c	cc$_o$m$_o$
Greenwich ...	c	c	cird
Camden Square	c	c	*
Kensington ...	cpc	cbc	*
Hampstead ...			

Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 9h. Max. Time
-0·1 whole period Min. Time

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	68	60	59	0·1	1	0·1	*	*
Croydon ...	67	59	58	-	0·4	0·0	*	*
Greenwich ...	69	60	58	-	1·5	0·1	77	87
Westminster ...	69	61	58	1·7		*	86	95
Regents Park ..	68	61	59	-	2·4	*	79	86
Camden Square	68	60	59	-	2·3	*	*	87
Kensington ...	69	60	59	Tr	1·6	*	93	88
Hampstead ...							*	

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday 13th July 1943 — No. 29818

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	08·7	0	SW'N	4	c	69	45	46	8	8	7	6	4-6	9+	2500
	Croydon ...	09·7	−2	WSW	4	c	70	55	50	9	2	-	6	4-6	9+	2000
	S. Farnborough	09·1	+2	WNW	5	c	70	45	47	8	8	-	6	4-6	9+	2000
	Boscombe Down	09·7	+4	W	S	C	66	45	47	8	8	-	6	4-6	10	2000
	Thorney Island	10·8	+2	SW	4	c	68	65	56	9	2	9	-	1	9+	2500
	Lympne ...	11·0	−2	SW'N	5	c	62	85	58	8	5	-	-	9+	9+	1500
	Manston ...	09·3	−10	SW'W	4	c	68	75	58	8	5	7	-	4-6	10	1000
	Shoeburyness ...	09·6	−4	SW	4	c	69	65	56	8	8	6	-	7-8	9+	1500
	Felixstowe ...	08·1	−4	SW	3	c	69	75	61	8	7	-	-	4-6	9+	1800
	Gorleston ...	06·8	−2	W.	5	ebcq	73	45	53	7	8	7	-	4-6	7-8	2200
	Mildenhall ...	06·7	0	W'S	5	c	70	45	49	8	-	-	7	4-6	10	2500
	Cranwell ...	05·8	+6	W'S	6	c	65	55	48	8	8	-	-	9	9	2000
3	Birmingham ...	07·0	+4	WSW	4	c	63	55	47	8	8	1	-	7-8	9+	4000
	Upper Heyford	07·4	+2	W'S	5	c	68	55	46	8	4	1	-	4-6	10	2400
4	Ross-on-Wye	08·4	+6	WSW	4	c	61	65	47	8	8	6	1	4-6	9	3000
5	Hartland Point	09·8	+8	W	5	cbc	59	75	50	8	2	4	-	4-6	7-8	2000
	Bristol ...	10·1	+10	W	4	C	63	75	54	8	1	-	6	2-3	9+	2500
	Portland Bill ...	11·2	+6	SW	6	c.	60	86	56	8	5	-	-	10	10	4000
	Plymouth ...	12·1	+6	WSW	4	C	62	75	55	8	2	1	8	2-3	9	2000
	The Lizard ...	12·3	+10	W	5	c	61	75	54	8	8	2	-	7-8	9+	2000
	Scilly (St. Mary's)	12·7	+12	WS	5	cbc	64	65	51	8	8	6	9	4-6	7-8	1800
	Guernsey ...															
6	Pembroke ...	08·6	+8	W	6	bcq	59	75	49	8	2	4	1	2-3	4-6	2500
7	Holyhead (Valley)	04·5	+4	SW	5	bc	62	75	54	8	3	6	3	1	4-6	3000
	Chester (Sealand)	04·5	−2	W	5	cbc	65	45	43	8	2	-	9	4-6	7-8	2500
8	Manchester ...	06·3	+18	SW'W	4	bc	62	55	47	9	2	6	3	4-6	4-6	2500
10	Spurn Head ...	04·3	+6	WSW	5	cbc	66	55	48	7	2	3	2	4-6	7-8	2500
	Catterick (Sc.) ...	02·3	+10	WSW	5	bc	64	45	44	8	8	-	-	4-6	4-6	3000
	Tynemouth ...	00·7	+4	WSW	4	cbcq	64	45	44	7	1	-	-	7-8	7-8	2000
11	St. Abbs Head	97·2	+2	SW	5	c	61	55	46	8	5	6	-	4-6	9	2100
	Leuchars ...	96·0	+4	SW	6	pr	61	55	45	6	9	6	3	2-3	7-8	1000
12	Renfrew (Abbotsl.)	98·0	+6	WSW	4	Hr	58	65	45	6	9	7	-	7-8	9	1200
	Eskdalemuir ...	98·4	+10	SW'W	7	PR	53	85	50	8	8	1	-	7-8	7-8	1800
	Point of Ayre ...	00·6	+4	W'S	6	bc	65	55	47	8	1	4	-	2-3	4-6	2000
13A	Tiree	94·4	+6	SW	4	PR	53	86	48	7	3	6	-	9+	10	900
13B	Stornoway ...	89·6	0	WSW	6	c/pr	57	65	47	8	3	6	3	7-8	9	1800
15	Dalwhinnie ...	94·2	0	SW	4	bc	54	75	47	7	5	4	-	2-3	4-6	2500
	Aberdeen ...	94·3	+4	WSW	4	pr	62	55	44	8	2	-	3	9	9	2500
	Wick ...	91·7	+2	SWS	4	c/r	58	75	48	9	8	4	-	7-8	7-8	2500
16	Sumburgh ...	90·3	−18	SSW	1	c/r	53	85	49	8	5	7	-	7-8	9+	4500
17	Blacksod Point	99·4	+2	WSW	6	c	59	75	51	7	9	-	-	9	9	1500
18	Malin Head ...	95·9	+2	W'N	5	C	56	65	44	8	8	-	-	9	9	1500
	Aldergrove ...	99·4	−2	WSW	4	pr	55	75	47	8	3	-	-	4-6	4-6	2000
19	Birr Castle ...	03·2	−2	SW	5	bc	62	65	49	8	3	-	-	4-6	4-6	1500
20	Valentia Obsy.	07·6	+8	W'S	6	bc	59	55	46	8	2	-	-	4-6	4-6	2500
	Roches Point	07·1	0	W'S	4	cbc/pr	59	85	54	8	3	-	3	7-8	7-8	1500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
09·0	−2	WSW	4	c-bc	68	45	47	8	5	-	-	7-8	7-8	2500	1	*
10·0	−2	SW	4	c-bc	66	45	44	9	2	6	-	7-8	7-8	2500	1	*
09·3	0	W'S	4	c-bc	67	45	44	8	2	6	-	7-8	7-8	2500	0	*
09·9	−2	W	4	bc	63	45	43	8	2	-	-	4-6	4-6	2500	0	*
10·7	−4	WSW	5	bbc	63	65	52	8	2	4	-	1	2-3	2500	0	*
10·2	−2	WSW	5	bbc	63	75	53	8	1	4	9	1	2-3	2000	1	5
09·2	0	SW'W	4	bc	64	75	55	8	5	7	8	2-3	4-6	3000	0	*
09·2	0	SW	3	bc	67	65	57	7	2	4	-	4-6	4-6	2500	0	*
08·2	+2	SW'W	4	c-bc	68	65	53	8	1	-	9	4-6	7-8	2500	0	4
06·8	0	W.S	3	bc	69	55	51	7	2	3	-	2-3	4-6	2500	0	4
07·0	−2	W'S	5	bc	66	45	44	8	1	4	8	4-6	4-6	4000	0	*
05·8	0	WN	6	c-bc	63	55	48	8	2	-	-	7-8	7-8	2000	1	*
07·1	0	WSW	5	bc	62	45	39	8	7	-	-	4-6	4-6	2500	1	*
07·8	0	WSW	6	bbc	63	45	40	8	1	-	8	2-3	2-3	3000	0	*
08·3	0	WSW	5	bbcq	61	55	45	8	2	-	-	2-3	2-3	3500	1	*
09·0	−6	W	5	bc/pr	60	75	51	8	2	6	-	4-6	4-6	2500	0	4
10·2	−2	W'S	4	bbc	62	75	52	8	2	-	-	2-3	2-3	2800	1	*
11·2	−4	SW	5	c-bc	60	85	56	8	2	4	-	4-6	7-8	4000	1	5
12·8	+2	WSW	4	c-bc	61	75	51	8	2	-	-	7-8	7-8	2000	1	3
12·7	−6	W	5	bc	61	75	52	8	2	-	-	4-6	4-6	2500	0	4
12·7	−2	W'S	6	c-bc	61	65	50	8	8	6	-	4-6	7-8	1500	1	5
07·6	−6	W'S	7	bcq	58	85	52	7	2	6	-	4-6	4-6	2500	1	4
04·2	−2	SW'S	7	bc	57	85	53	8	3	6	3	4-6	4-6	1500	1	5
04·4	−2	SW	3	c-bc	63	55	48	8	7	-	-	7-8	7-8	2000	1	*
05·0	−2	SW	5	c-bc	61	55	48	8	2	6	-	4-6	7-8	2500	0	*
04·6	0	WSW	5	bcq	65	45	40	7	2	-	-	4-6	4-6	2500	0	3
02·2	+2	SW	5	c-bc	61	65	47	8	8	-	-	7-8	7-8	2500	0	*
00·7	+4	WSW	6	bcq	61	55	44	7	2	-	-	4-6	4-6	2000	1	3
98·6	+10	WSW	5	c/pr	54	75	46	8	4	6	-	7-8	9	3000	1	4
96·9	+2	WSW	5	pr	54	65	44	7	9	6	3	7-8	9	1000	1	*
97·9	−6	SW	3	c-bc	55	75	47	8	3	6	3	4-6	7-8	1800	1	*
98·4	−6	SW'S	4	c	53	85	47	8	8	7	-	7-8	9	1800		*
00·6	0	W'S	5	c-bc	57	85	53	8	3	7	3	2-3	7-8	2000	1	4
93·9	−4	SW	4	c-bc	55	75	48	8	8	3	-	4-6	7-8	2000	1	3
90·7	+4	SSW	4	cjp	54	75	47	8	3	6	3	7-8	9	2200	1	4
94·0	+2	SSW	4	c	49	85	45	7	8	-	-	9+	9+	2500	1	*
95·1	+6	SW	4	c-bc	59	55	42	8	2	6	3	2-3	7-8	2500	1	3
92·5	+2	WSW	3	c/bc/pr	55	75	47	9	8	7	2	4-6	7-8	2500	1	*
91·8	+14	SW	4	pr	54	85	51	7	8	7	-	4-6	9+	2000	1	2
01·6	+14	W	6	c	58	75	50	8	9	-	-	9	9	2500	1	5
96·1	+4	W	5	c	56	75	48	8	8	-	-	10	10	1500	1	4
99·1	+2	SW'N	4	cjp	55	75	47	8	3	4	3	9	9+	2000	1	*
04·3	+6	W	4	bc/c/pr	57	75	49	8	3	-	-	4-6	4-6	1500		6
09·7	+14	W	6	c/pr	56	85	51	8	3	6	3	7-8	9+	2500	1	5
08·1	+10	W	6	bc	59	75	51	8	3	-	3	4-6	4-6	1500	1	4

PAST 24 HOURS.

Weather. 7h.—13h. 12th (30)	Weather. 13h.—18h. 12th (40)	Weather. 18h. 12th to 1h. 13th (41)	Weather. 1h.—7h. 13th (42)
cdocy	cy	cbcy	bc
cdodomoc	cbc	bccbc	bbcj
cfomoc	cy	cbcybcb	bbcbbc
cirobccy	cybcy	bcybcpro	bbcpro
c.	cbcb	bcb	bbc
cdommoc	c	cbc	bwbbc
cidomoC	c	bc	bbcc
cido	cbc	bc	bcw
cddmoc		cbcb	bc
cprocy	c	bcbbc	bc
bcy	cybcy	bcybyb	bbc
ccy	cbccy	b	bcpro bc
bcc	probc	bcc	cpro
cryccy	cybcu	bcybb	bbc
bcq	cpobccy	cqpr	bcc
cpr	cbcpro	bccpr	bccbcq
cpproc	c, bbc	cprpbpro	bccpro
c	bcc	cbc	bcbc
c	cbc	bccbc	bcpr
bcc	cbc	cbcpr	bcpro
c	cbcc	cpro bc	bbcq
bcq	Prbcq	bcq	bccbc
bcproC	bcproC	bccbc	bc
cypro	cbccy	pro bcb	bbcc
cprobcpro	bcy	bcpr pro	bcmcir
c	bcq	b	cq
bcpro	bc	cpro	cpro c
cq	bcq	bcqpbc	c
bcpro	cprbccpr	bcc	cpro
ccpR	cpRc	cprcro	cro c
cpro C	cproc	cjpcbc	ccpro c
cprbc	bcpro		ccpro c
clocprbcy	cprbcy	bcycpro	cpro bc
cpro ccpro	cproc	bc	bcc
cro c	pro	probc	bcc
pr	pr	bc	c
pr	pr	pr	pr
bccpR	prtlcprcpro	crrorr	
pr	pr	c	c
pr	pr	pr	pr
pr	pr	pr	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 13th July 1943

Districts	
1	S.E. England
2	E. England ..
3	E. Midlands ...
4	W. Midlands
5	S.W. England
	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
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Fresh west to northwest winds, falling light tomorrow; mainly cloudy at first with some local showers; fine to fair at night and tomorrow; rather cool today, somewhat warmer tomorrow

Fresh northwest, falling light variable; cloudy and brighter periods today, then fine; rather cool today, warmer tomorrow.

Fresh northwest winds, strong locally at first on west coast; bright periods with local showers, and chance of local thunder; cool at first, warmer tomorrow.

Fresh to strong northwest winds; bright intervals, some thundery showers, but showers becoming much less frequent tomorrow.

16 Orkneys and Shetlands	As 13–15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate to fresh northwest winds, falling light variable to southwest; mainly fair apart from a few local showers at first; rather cool becoming warmer.

GENERAL INFERENCE

Rather cool northwesterly winds over the British Isles will be accompanied by bright intervals with a few showers in most districts but with a ridge of high pressore moving in from the Atlantic weather will become fair tomorrow with some rise in temperature.

FURTHER OUTLOOK

Rain is expected to spread eastwards from the Atlantic.

Forecasts issued at 1030.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Tuesday 13th July 1943.

LOW

HIGH

996 998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020

5°W. 0° 5°E. 10°

60° 55° 50°

Mb. 1050 1040 1030 1020 1010 1000 990 980 970 960 950 940 930

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in tenths

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud { Code figure (one figure) or hundreds of feet (two figures)

Scale 1:5,000,000.

H.M.S.O. Press, M.O., Dunstable.

Rs 520/4503 We 803. D 1545 Gp. 948/2. 7440 7/43

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Tuesday 13th July

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground.
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Tuesday 13th July 1943 No. 29818

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	56	*	*	*	*	*	*	*	*	*
	Croydon ...	290	11·5	+6	SW	5	b-bc	55	75	48	8	4	-	-	2-3	2-3	2500
	S. Farnborough	226	11·0	+4	W'S	4	b	54	75	47	8	-	4	-	0	Tr	-
	Boscombe Down	417	11·6	+4	SW'W	4	b-bc	51	85	47	8	5	-	3	2-3	2-3	4000
	Thorney Island	10	11·9	+6	W'S	4	b	57	75	50	8	1	-	-	Tr	Tr	2500
	Lympne ...	283	11·3	+6	W'S	3	b	51	97	50	7	-	-	-	0	0	-
	Manston ...	154	10·5	+8	WSW	3	b-bc	54	85	50	7	-	4	8	0	2-3	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	09·2	+4	SW'W	4	b	56	75	48	8	-	-	-	0	0	-
	Gorleston ...	5	07·5	+2	SW'W	3	b-bc	55	65	43	7	-	4	-	0	2-3	-
	Mildenhall ...	15	08·2	+6	SW	4	b	52	85	47	8	-	-	-	0	0	-
	Cranwell ...	203	06·4	-4	WSW	5	b	52	85	49	8	4	-	-	Tr	Tr	2500
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·2	+8	W'S	3	b	50	97	48	8	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	11·4	+8	WNW	5	bc	57	85	50	8	2	-	-	4-6	4-6	2500
	Bristol ...	209	11·2	+4	W	4	b-bc/pr	54	92	52	8	2	-	-	2-3	2-3	2500
	Portland Bill ...	32	12·7	+4	SW	5	bc	58	85	54	8	5	-	-	4-6	4-6	4000
	Plymouth ...	86	14·4	+8	W	4	Zc/c-bc/	58	85	52	6	7	-	-	2-3	2-3	1500
	The Lizard ...	240	15·1	+10	WNW	6	/pr	56	85	50	8	8	-	-	7-8	7-8	2000
	Scilly (St. Mary's)	163	15·6	+14	W	6	b-bc	56	75	48	8	8	-	-	2-3	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	10·4	+6	W'N	7	bcq	56	85	51	8	5	8	-	2-3	4-6	2500
7	Holyhead (Valley)	32	09·9	+8	SW	6	c	55	85	51	7	4	4	8	4-6	9+	3500
	Chester (Sealand)	16	05·2	+2	WNW	3	b	54	75	46	8	5	-	-	1	1	2500
8	Manchester ...	230	05·4	0	SW'S	3	b	51	85	47	7	4	-	-	1	1	2500
10	Spurn Head ...	29	05·1	0	SW'W	5	b	55	75	47	7	1	-	-	1	1	2500
	Catterick (Sc.) ...	192	02·3	+2	SW	3	pr	54	85	48	7	8	-	-	7-8	7-8	2000
	Tynemouth ...	108	00·8	+2	SSE	3	bc	51	75	44	7	2	4	-	4-6	4-6	1500
11	St. Abbs Head	280	97·1	-8	SSW	3	c	50	92	48	8	5	2	-	4-6	10	2500
	Leuchars ...	36	95·2	-10	SW	4	ir	51	92	48	7	5	2	-	4-6	10	1400
12	Renfrew (Abbotsl.)	19	96·7	-2	SW'W	4	pr	51	92	49	6	8	-	-	7-8	10	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	01·3	0	W	6	r	54	85	50	7	6	7	-	4-6	10	800
13A	Tiree	44	92·3	-12	W	3	r/o	53	92	51	7	6	-	-	10	10	800
13B	Stornoway ...	12	91·9	+10	WSW	1	bc	49	97	47	7	8	4	2	2-3	4-6	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	94·3	-6	SSW	4	pr	49	85	46	8	3	7	-	7-8	9	2000
	Wick ...	114	92·8	+2	SW	3	bc	49	85	45	9	5	6	-	2-3	4-6	3500
16	Sumburgh ...	19	92·7	+4	SW	4	b-bc	51	92	49	8	4	6	3	Tr	2-3	5700
17	Blacksod Point	18	05·8	+22	W	7	bc	56	75	47	7	9	-	-	4-6	4-6	2500
18	Malin Head ...	84	96·7	+6	WNW	7	ir	55	85	50	7	8	2	-	2-3	9+	1500
	Aldergrove ...	268	00·5	+6	WSW	4	c	51	85	47	8	8	-	-	9+	9+	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	12·5	+10	W	5	bc/pr	56	85	52	8	8	3	-	4-6	4-6	2500
	Roches Point	22	11·6	+14	W	4	b	53	85	49	8	5	-	-	1	1	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	12·1	+10	WSW	4	c-bc	67	75	48	7	8	-	1	4-6	7-8	2500	1	*
	Croydon ...	13·0	+10	WSW	4	bc	58	75	48	8	1	-	1	2-3	4-6	2500	0	*
	S. Farnborough	13·0	+12	W'S	4	bc	66	75	48	8	7	-	2	4-6	4-6	1800	0	*
	Boscombe Down	13·4	+10	W'S	4	bc/pr	55	75	49	8	2	6	-	4-6	4-6	2500	0	*
	Thorney Island	13·8	+10	W'S	5	bc	59	75	52	8	1	4	2	2-3	4-6	2500	0	*
	Lympne ...	13·3	+10	WSW	3	bc	56	75	50	8	1	-	2	Tr	4-6	2000	1	5
	Manston ...	12·0	+6	W'S	4	c-bc	57	65	45	8	2	-	2	Tr	7-8	2500	0	*
2	Shoeburyness ...	12·1	+18	WSW	3	bc	59	75	50	8	1	-	2	4-6	4-6	4000	1	*
	Felixstowe ...	10·5	+8	SW	4	c-bc	67	92	56	8	-	-	6	0	7-8	-	0	4
	Gorleston ...	08·9	+4	W'S	4	bc	59	65	48	7	2	4	2	2-3	4-6	2500	0	3
	Mildenhall ...	09·5	+10	SW'W	5	bc	57	75	47	8	1	4	2	Tr	4-6	2000	0	*
	Cranwell ...	07·0	+4	W'S	5	bc/pr	56	85	51	8	5	3	-	2-3	4-6	1500	1	*
3	Birmingham ...	09·4	+10	SW	4	c	54	75	47	8	5	7	-	7-8	9	1500	0	*
	Upper Heyford	10·6	+10	WSW	4	cjp	55	75	47	7	7	-	-	9+	9+	4000	0	*
4	Ross-on-Wye	11·0	+10	WSW	4	c	56	75	48	8	8	-	-	9	9	2500	0	*
5	Hartland Point	13·6	+12	WNW	5	bc	58	75	51	8	2	6	-	4-6	4-6	2000	0	3
	Bristol ...	13·0	+10	W	4	PR	55	92	54	6	9	6	-	9	9+	2500	1	*
	Portland Bill ...	15·1	+20	W	5	bc	58	75	52	8	2	-	-	4-6	4-6	4000	1	5
	Plymouth ...	16·6	+14	W'N	4	c-bc	57	85	53	7	8	-	-	2-3	7-8	2000	1	3
	The Lizard ...	15·9	+12	WNW	5	c-bc/pr	57	85	51	8	8	6	-	7-8	7-8	2000	1	4
	Scilly (St. Mary's)	17·9	+16	W'N	6	c	57	75	48	8	8	3	-	7-8	9	1500	0	4
6	Pembroke ...	13·2	+18	W'N	6	c-bcq	57	85	52	8	2	-	-	4-6	7-8	2500	0	4
7	Holyhead (Valley)	08·2	+18	WNW	6	c	56	85	50	8	8	4	-	7-8	9	3000	1	4
	Chester (Sealand)	06·6	+14	WNW	4	c-bc	58	85	46	8	5	7	-	2-3	7-8	2000	0	*
8	Manchester ...	06·6	+14	SW'W	4	c	55	75	47	8	6	7	-	7-8	9+	1500	0	*
10	Spurn Head ...	05·6	+4	SW'W	6	c-bcq	56	75	48	7	7	3	-	4-6	7-8	2500	0	3
	Catterick (Sc.) ...	01·8	0	WSW	4	c-bc	55	85	50	8	8	6	-	7-8	7-8	1800	0	*
	Tynemouth ...	00·5	-2	W	4	c	57	75	47	7	8	-	-	9+	9+	1200	1	2
11	St. Abbs Head	95·6	-6	SW	4	c/pr	53	85	50	8	5	4	-	7-8	9	3500	0	3
	Leuchars ...	95·0	+4	SW	3	c-bc	55	85	51	7	8	7	3	2-3	7-8	1500	1	*
12	Renfrew (Abbotsl.)	97·4	+18	W'S	4	c	57	85	53	8	8	-	6	7-8	9	1000	1	*
	Eskdalemuir ...	88·0	+6	SW'W	6	rr	50	92	48	6	-	2	-	10	10	700	1	*
	Point of Ayre ...	02·4	+12	W'N	6	c	55	85	51	8	6	9	9	4-6	9+	2000	1	4
13A	Tiree	00·1	+58	WNW	6	c	55	85	50	8	8	-	2	7-8	9	2500	1	3
13B	Stornoway ...	96·4	+26	NNW	3	c/pr	55	85	50	8	8	3	3	7-8	9+	1200	1	2
15	Dalwhinnie ...	97·0	+22	NW	2	c	48	92	46	7	5	-	-	9+	9+	1500	1	*
	Aberdeen † ...	95·3	+14	WSW	2	b-bc	63	75	46	9	1	4	2	Tr	2-3	2500	1	1
	Wick ...	95·6	+26	WNW	1	c-bc	49	85	46	9	3	3	2	4-6	7-8	2500	0	*
16	Sumburgh ...	93·8	+14	W	3	c-bc	53	92	51	8	8	6	3	4-6	7-8	1500	1	2
17	Blacksod Point	10·9	+30	WNW	6	c	56	75	48	7	9	-	-	9+	9+	2500	1	5
18	Malin Head ...	02·7	+42	WNW	7	c-bcjp	55	85	51	7	8	-	-	7-8	7-8	1500	2	5
	Aldergrove ...	04·1	+30	W'S	4	r/o	54	85	50	7	5	2	-	9+	9+	1200	1	*
19	Birr Castle ...	11·2	+30	NSW	4	c-bc	57	75	49	8	4	-	-	7-8	7-8	2500	1	*
20	Valentia Obsy.	16·5	+24	W'N	4	c	56	85	51	8	2	-	-	4-6	9	1500	1	4
	Roches Point	15·0	+20	W'N	4	bc	57	85	52	8	3	-	-	4-6	4-6	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine Hrs. (38)
1	London (Kew)	70	54	47	Tr	-	4·5
	Croydon ...	71	52	49	0·5	-	5·1
	S. Farnborough	70	51	46	1	-	6·9
	Boscombe Down	68	49	45	Tr	Tr	7·0
	Thorney Island	69	55	50	Tr	-	*
	Lympne ...	63	48	45	Tr	-	2·8
	Manston ...	68	51		Tr	-	2·1
2	Shoeburyness ...	73	53	48	Tr	-	3·7
	Felixstowe ...	74	53	49	Tr	-	4·2
	Gorleston ...	73	52	42	Tr	-	5·2
	Mildenhall ...	71	50	45	Tr	-	7·9
	Cranwell ...	69	51	48	Tr	Tr	9·0
3	Birmingham ...	64	54	46	0·1	Tr	8·8
	Upper Heyford	67	49	39	-	-	*
4	Ross-on-Wye	63	52	47	Tr	0·3	7·4
5	Hartland Point	61	55	55	0·1	0·1	7·4
	Bristol ...	65	52	49	Tr	5	8·5
	Portland Bill ...	60	54		-	-	*
	Plymouth ...	64	54	53	-	6	9·5
	The Lizard ...	62	54	*	..	0·5	9·1
	Scilly (St. Mary's)	65	55	*	Tr	Tr	6·6
6	Pembroke ...	59	55	*	0·5	-	9·5
7	Holyhead (Valley)	62	53	52	0·2	Tr	
	Chester (Sealand)	65	54	47	1	0·2	11·3
8	Manchester ...	63	49	46	-	0·4	*
10	Spurn Head ...	67	52	*	2	-	10·5
	Catterick (Sc.) ...	66	52	54	Tr	Tr	13·4
	Tynemouth ...	66	51	48	Tr	2	*
11	St. Abbs Head	63	48	*	2	Tr	*
	Leuchars ...	62	49	46	2	0·3	10·3
12	Renfrew (Abbotsl.)	60	49	40	3	2	7·3
	Eskdalemuir ...	58	47	47	4	9	7·8
	Point of Ayre ...	67	39	*	5	2	9·7
13A	Tiree	59	50	49	4	5	7·6
13B	Stornoway ...	60	45	36	2	Tr	4·9
15	Dalwhinnie ...	55	45	42	5	1	4·9
	Aberdeen † ...	63	46	33	0·5	0·2	8·9
	Wick ...	62	43	36	3	Tr	*
16	Sumburgh ...	57	50	44	7	0·1	4·3
17	Blacksod Point	60	54	*	1	0·5	
18	Malin Head ...	58	47		2	4	7·0
	Aldergrove ...	62	50	48	3	2	10·4
19	Birr Castle ...	62	52	49	4	0·1	10·1
20	Valentia Obsy.	61	53	51	1	1	8·7
	Roches Point	62	52		0·3	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 12th July			18h. G.M.T.			01h. G.M.T. 13th July			07h. G.M.T.		
	IIiC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109	86	25854	22485	87	25844	17385	54	02854	19326	36	25744	24385
115				87	02944	53586	57	02954	20325			
203	8-	25846	16686				8-	02945	20425			
206				86	02954	53585	53	02951	00086	53	02965	22225
210	86	02964	20415	36	01964	53485	53	01964	20215	53	02965	24426
219	30	25854	20685	30	01854	20584	89	01854	11285	91	10854	66526
280				36	25944	20385	62	64646	53488	9-	81856	55487
245	86	10964	66845	39	10953	55615	37	81754	18388	57	02856	22127
260	9-	81745	20685	9-	62748	22488	5-	25548	53488	57	02744	22465
278	36	25953	22384	96	81855	22387	82	02845	23598	59	02843	59968
279	86	01854	55514	36	91754	20455	9-	81758	22788	52	61638	24688
285	20	25054	26684							27	81745	24687
288	26	01964	20514	26	01953	53514	44	25851	18383	57	22847	53467
575	9-	82857	55487	76	25844	57585	91	81635	57688	96	25754	66687
301	20	02854	22685	86	02753	22625	2-	02855	55685	67	02845	23768
321	86	02754	57485	26	01864	55414	40	01773	20313	87	22755	20467
299	84	01754	20414	80	01744	22314	46	01755	22415	84	02745	20415
282	26	10854	55514	26	01853	21484				53	81834	55486
310										--	01636	24416
614	2-	02854	55427	10	01854	57414	03	05690	22311			

	13h. G.M.T. 12th July			18h. G.M.T.			01h. G.M.T. 13th July			07h. G.M.T.		
	IIiC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
388	20	01763	55584	26	01854	52684	50	05643	53683	23	01753	55514
334	--	02644	26416	--	63647	26488				--	02616	24417
340	8-	01964	55424	30	01848	57513	50	01854	57414	77	25834	55486
136	26	02954	20617	26	01864	19525	50	01862	20302	03	02890	20517
386	13	01753	24514	13	01753	24514				52	25754	28587
850	71	02854	55528	10	01853	53523	40	10762	20302	53	02863	22415
368	80	02754	21516	70	01754	57515	8-	25745	57485	2-	25755	26185
379				10	01854	55624	40	00761	22301	8-	02744	55416
390	27	02754	22427	26	01755	22415	00	05630	18410			
382	21	02854	23458	16	01863	57413	50	01871	22311	53	02866	22416
438	57	01654	24545	53	02653	24615	8-	02765	24615	24	02754	24715
430	10	02853	20427	14	01852	2242				10	01743	55513
409	51	02853	55526	94	82844	56586	20	01754	57514	8-	26845	57586

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 13th July

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	cdcy	cy	cbcybc	Kew 24 hours ended 7h Max. 71
Croydon ...	cdcmc	cbc	bccbbc	0.0 Whole of period
Greenwich ...	cy	bcy	bcybc	Min. Time
Camden Square ...	c	c	*	
Kensington ...	cbc	bc	*	
Hampstead ...	obc	bc	bc	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 18h %	Humidity 9h %
						Yesterday	To-day	
Kew ...	70	54	47	Tr	-	4·5	*	*
Croydon ...	71	52	49	0·5	-	6·1	*	*
Greenwich ...	74	52	45	-	-	5·1	44	58
Westminster ...	72	54	50	-	-		53	67
Regents Park ...	71	53	50	-	-	*	51	61
Camden Square ...	72	53	47	-	-	*	*	59
Kensington ...	72	53	47	-	-	*	46	58
Hampstead ...	66	58	56	Tr	3·3	*	*	96

SECRET

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THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 14th July 1943 — No. 29813

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	15·2	+16	W	4	c	65	45	45	8	8	3	–	7-8	9	1500
	Croydon ...	16·2	+18	WSW	5	c	66	45	46	8	2	6	–	7-8	9	2500
	S. Farnborough	16·0	+16	NNW	5	c	65	45	45	8	7	3	–	7-8	9	2500
	Boscombe Down	16·4	+12	W	6	c-bc	66	45	45	8	2	6	–	7-8	7-8	2000
	Thorney Island	16·6	+14	WS	4	c-bc	68	65	55	9	3	6	3	4-6	7-8	1500
	Lympne ...	15·5	+14	WSW	5	c/pr	65	65	52	8	2	–	–	9	9	2500
	Manston ...	13·7	+10	WSW	4	bc	68	55	52	8	1	–	–	4-6	4-6	2000
2	Shoeburyness ...	14·8	+10	W	4	c-bc	67	55	47	8	8	–	–	7-8	7-8	2500
	Felixstowe ...	12·9	+14	WSW	6	c-bc	68	55	52	8	7	6	–	4-6	7-8	2500
	Gorleston ...	01·3	+10	WNW	5	bc	65	55	48	7	8	4	–	4-6	4-6	2000
	Mildenhall ...	11·9	+14	W	6	c	65	55	49	8	8	4	–	4-6	9+	2200
	Cranwell ...	11·1	+26	WS	6	c	61	75	54	8	8	–	–	9+	9+	2000
3	Birmingham ...	13·7	+28	W	5	c	60	65	48	8	8	–	–	9+	9+	2500
	Upper Heyford	14·1	+20	W	4	c/pr	62	65	48	8	–	–	3	7-8	9	2500
4	Ross-on-Wye	15·3	+20	N	5	c	63	55	49	8	5	–	–	9+	9+	3000
5	Hartland Point	18·7	+26	WNW	5	b-bc	60	75	51	7	2	6	–	2-3	2-3	2500
	Bristol ...	17·5	+28	W	5	c	61	85	56	8	8	–	–	9	9	4000
	Portland Bill ...	17·3	+18	WNW	5	c-bc	62	85	59	8	2	4	–	4-6	7-8	4000
	Plymouth ...	20·3	+18	WNW	5	c/pr	61	75	53	8	8	–	–	9+	9+	2500
	The Lizard ...	20·7	+16	WNW	5	bc	61	75	52	8	2	3	–	4-6	4-6	2500
	Scilly (St. Mary's)	21·4	+10	NW	5	bc	64	65	52	8	8	6	–	2-3	4-6	1500
	Guernsey ...															
6	Pembroke ...	17·9	+22	W	6	bcq	59	85	55	8	2	4	–	2-3	4-6	2500
7	Holyhead (Valley)	14·3	+32	W	5	bc	63	75	54	8	8	3	–	4-6	4-6	4000
	Chester (Sealand)	12·2	+34	NW	6	c	63	55	48	8	8	3	–	7-8	9	2000
8	Manchester ...	12·0	+34	WN	6	c	59	65	49	8	2	6	–	9	10	1500
10	Spurn Head ...	08·5	+18	WSW	6	c/pr	60	75	52	7	8	7	–	7-8	9+	1500
	Catterick (Sc.) ...	06·4	+30	W	5	c-bc	65	55	49	8	8	6	–	4-6	7-8	2000
	Tynemouth ...	04·9	+30	W	6	c-bcq	64	85	60	7	2	–	–	7-8	7-8	2200
11	St. Abbs Head	03·4	+46	WNW	4	c-bc/pr	60	65	48	8	1	4	–	4-6	7-8	3500
	Leuchars ...	03·2	+38	W	3	c	62	55	46	8	2	3	–	7-8	9+	2000
12	Renfrew (Abbotsl.)	06·9	+42	WN	5	c/pr	57	75	51	8	3	6	–	7-8	9	2000
	Eskdalemuir ...	05·5	+50	WS	5	c-bc	60	65	47	8	8	–	–	7-8	7-8	2100
	Point of Ayre ...	10·7	+42	NNW	5	c-bc	63	75	56	8	8	–	–	7-8	7-8	3000
13A	Tiree	08·2	+38	WN	5	bc	58	75	50	8	2	6	–	4-6	4-6	2500
13B	Stornoway ...	01·8	+26	WNW	4	PR	53	92	51	6	8	7	–	9	9+	600
15	Dalwhinnie ...	04·0	+26	W	3	pr	53	85	48	7	5	–	–	10	10	1500
	Aberdeen ...	01·7	+36	NNW	2	c/pr	55	85	51	8	8	3	3	4-6	9	2500
	Wick ...	00·5	+28	W	4	c-bc/pr	61	65	49	9	8	7	–	4-6	7-8	1500
16	Sumburgh ...	97·4	+24	W	3	c	55	85	52	8	2	3	6	4-6	9	1500
17	Blacksod Point	15·4	+18	WS	6	c	58	85	54	7	8	–	–	9+	9+	2500
18	Malin Head ...	10·6	+34	WNW	6	c	57	75	49	7	8	–	–	9	9	1500
	Aldergrove ...	11·9	+38	WN	5	c	58	65	47	8	5	–	–	9+	9+	2000
19	Birr Castle ...	15·7	+14	WSW	3	c	63	65	51	8	8	1	–	7-8	9+	1500
20	Valentia Obsy.	20·1	+16	WS	5	c-bc	57	85	53	8	8	–	–	10	10	2500
	Roches Point	18·5	+14	NW	4	c-bc	62	75	54	8	8	–	–	7-8	7-8	1500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	17·6	+10	W	4	c-bc	67	55	46	8	8	–	–	7-8	7-8	2500	1	•
	Croydon ...	18·2	+10	WN	4	c-bc	65	55	47	8	8	6	–	2-3	7-8	3500	0	•
	S. Farnborough	18·2	+14	WN	4	bc	66	55	48	8	7	6	–	4-6	4-6	2500	0	•
	Boscombe Down	18·6	+12	NNW	4	bc	68	55	49	8	1	6	–	2-3	4-6	3000	0	•
	Thorney Island	18·5	+10	W	4	bc	68	45	48	9	7	6	–	2-3	4-6	2500	0	•
	Lympne ...	17·4	+10	WN	4	bc	65	55	49	8	1	6	–	4-6	4-6	3500	1	§5
	Manston ...	16·7	+18	WNW	3	c	65	55	49	8	8	7	–	4-6	9	3000	0	•
2	Shoeburyness ...	16·8	+10	WN	6	bc	67	45	46	8	2	6	–	2-3	4-6	4000	0	•
	Felixstowe ...	15·6	+16	WS	5	c	65	65	54	8	7	6	–	4-6	9+	5700	0	5
	Gorleston ...	13·7	+22	WNW	4	cq	64	65	52	7	8	–	–	9+	9+	1800	0	4
	Mildenhall ...	15·3	+18	WN	4	bc	64	55	48	8	7	–	–	4-6	4-6	6000	0	•
	Cranwell ...	14·6	+22	WNW	5	bc	64	55	50	7	2	6	–	4-6	4-6	2500	1	•
3	Birmingham ...	16·8	+14	W	4	c	61	55	45	8	4	–	–	7-8	9+	4000	1	•
	Upper Heyford	16·9	+14	WNW	4	b-bc	65	55	47	8	2	6	–	2-3	2-3	4000	0	•
4	Ross-on-Wye	17·7	+14	W	3	c-bc	65	55	49	8	7	–	–	7-8	7-8	3500	0	•
5	Hartland Point	20·2	+6	W	4	bc	60	85	53	8	2	4	–	4-6	4-6	2500	0	4
	Bristol ...	19·5	+10	W	5	c-bc	62	75	53	8	7	6	–	4-6	7-8	2500	1	•
	Portland Bill ...	20·1	+6	SW	5	bc	60	85	56	8	2	–	–	4-6	4-6	4000	1	5
	Plymouth ...	21·8	+4	WNW	4	bc	62	65	52	8	8	4	–	4-6	4-6	2500	1	3
	The Lizard ...	22·6	+2	WNW	4	bc	60	75	52	8	2	5	–	4-6	4-6	2000	0	3
	Scilly (St. Mary's)	22·4	+2	WNW	4	c-jp	60	65	49	8	8	3	–	4-6	9+	1800	0	5
	Guernsey ...																	
6	Pembroke ...	19·1	+4	W	5	b-bc	58	92	55	8	2	2	–	2-3	2-3	2500	0	4
7	Holyhead (Valley)	16·0	+4	SW	3	c-bc	61	85	56	8	2	6	–	Tr	7-8	3000	1	4
	Chester (Sealand)	15·9	+18	NNW	4	c-bc	63	55	48	9	8	3	–	4-6	7-8	3000	0	•
8	Manchester ...	15·3	+16	WNW	4	c	61	65	50	9	4	6	–	2-3	9	3000	0	•
10	Spurn Head ...	12·1	+14	WN	7	b-bcq	63	55	49	7	1	–	–	2-3	2-3	2500	0	5
	Catterick (Sc.) ...	12·0	+22	WNW	5	b-bc	63	55	45	8	8	–	–	2-3	2-3	3000	0	•
	Tynemouth ...	10·7	+22	W	6	bcjp	63	55	48	8	2	–	–	4-6	4-6	2200	0	3
11	St. Abbs Head	07·7	+20	W	5	b-bc	59	65	47	8	1	4	–	2-3	2-3	3500	0	4
	Leuchars ...	07·7	+26	WSW	5	G-bc	62	55	43	9	8	3	–	4-6	7-8	2500	0	•
12	Renfrew (Abbotsl.)	10·4	+12	W	4	pr	57	85	51	8	8	6	–	7-8	9	2500	1	•
	Eskdalemuir ...	13·2	+22	W	5	c-bc/pr	55	75	46	8	8	–	–	7-8	7-8	2100	1	•
	Point of Ayre ...	13·6	+4	NNW	4	c	61	75	52	8	–	7	–	0	9	–	0	3
13A	Tiree	10·3	+8	W	3	c/pr	56	82	53	7	2	3	–	4-6	9+	1500	1	4
13B	Stornoway ...	06·5	+22	W	5	c-bc	57	75	48	8	2	3	–	4-6	7-8	1800	2	3
15	Dalwhinnie ...	08·0	+24	W	3	c-bc	53	65	43	8	8	3	–	4-6	7-8	2500	0	•
	Aberdeen ...	06·0	+20	WNW	4	c/pr	59	65	44	8	8	7	–	7-8	9+	2500	1	2
	Wick ...	04·4	+22	NW	4	c-bc	57	75	49	9	8	7	–	4-6	7-8	2400	0	•
16	Sumburgh ...	01·5	+14	WN	3	c	55	85	52	8	8	–	–	4-6	9+	1000	0	2
17	Blacksod Point	16·0	+2	W	5	c	57	75	49	7	5	–	–	9+	9+	2500	1	4
18	Malin Head ...	12·6	+6	WNW	5	c-bc	56	85	52	8	8	–	–	7-8	7-8	1500	2	5
	Aldergrove ...	14·2	+14	WSW	5	c	58	65	47	8	8	–	–	9+	9+	3000	1	•
19	Birr Castle ...	17·4	+8	WSW	2	c	58	75	50	8	5	1	–	7-8	9+	2500	1	•
20	Valentia Obsy.	20·0	-2	WSW	4	c/pr	57	75	49	8	8	–	–	9+	9+	2500	1	3
	Roches Point	19·8	+4	W	4	c-bc	60	75	52	8	8	–	–	7-8	7-8	1500	1	4

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—13h. 13th (39)	Weather. 13h.—18h. 13th (40)	Weather. 18h. 13th to 1h. 14th (41)	Weather. 1h.–7h. 14th (42)
1	London (Kew)	c b c c y	c p r b c c	c b c b	b b c c
	Croydon ...	b c y c y	c y b c y	b c y b	b c c ·
	S. Farnborough	b c c p r c y	c p r o c b c y	b c y b y b	b b c c
	Boscombe Down	b c p r c y	c y b c y	b c b y b b w	b w c
	Thorney Island	c p r o	c b c c y	b	b c c
	Lympne ...	b c c y p r	c b c y b c	b c y b	b w b
	Manston ...	c c y	b c c p r c y	c b c b m o	b m b c b
2	Shoeburyness ...	b c c y	c y	b c	b c w
	Felixstowe ...	c b c c y	b c y c	c b c b	c b c
	Gorleston ...	b c y	b c y r o q	b c c b c	b c
	Mildenhall ...	b c b c c y	c y p m r b c y	b c y b c b	b c c w b c
	Cranwell ...	b c p r o m o	c c b c	c b c b b c	c
3	Birmingham ...	c p r o	c	c	c
	Upper Heyford	c p r o c p r o	c c y	b c b	b c c
4	Ross-on-Wye	c	c y		c c
5	Hartland Point	b c	b c	b c c r o	c i r o
	Bristol ...	c p R m o	c b c c b c	b b c	b c c i d b c
	Portland Bill ...	c	c b c	c c	c c
	Plymouth ...	b c c p r	c p r c	c	c b c
	The Lizard ...	c b c	c b c	b c c	c b c w
	Scilly (St. Mary's)	c b c q c	b c c	c b c	b c c
	Guernsey ...				
6	Pembroke ...	b c q	b c	b c c	c p r o d d c
7	Holyhead (Valley)	c b c	b c	c j p b c	c
	Chester (Sealand)	c y b c c y	c y b g c y	y c	c p r o c
8	Manchester ...	c p r o c	c b c y	c	b c m b c
10	Spurn Head ...	c p r q	b c q	b c	c
	Catterick (Sc.) ...	c b c y	b c y b c	b c c	c
	Tynemouth ...	c q	t b c q	b c	b c c
11	St. Abbs Head	c p r b c	b c	b	b c
	Leuchars ...	c c y	c	c y b c b	b c w
12	Renfrew (Abbotsl.)	c c p r o c	c p r b c c p r	c p r e m o	c
	Eskdalemuir ...	c p r o c	p r p r o	b c c p r c	c
	Point of Ayre ...	c p r c	c	c	c
13A	Tiree	c b c	c b c c p r	c b c	c
13B	Stornoway ...	c p r o c p r	c p r o c b R c	c b c p r o b c	b c c p r o c
15	Dalwhinnie ...	c o p r	o p r o c		c o p r e
	Aberdeen ...	b c c p r c	c p r p r o c	c b c b	b b c c
	Wick ...	c j p p r o	c	b c b	b b c
16	Sumburgh ...	b c c	c	c p r o c	c b c
17	Blacksod Point	c	c	d	†
18	Malin Head ...	p r	p r	p r	p r
	Aldergrove ...	c r r e c p r o	c c p r o c	c	c b c i r o
19	Birr Castle ...	c	c		†
20	Valentia Obsy.	b c	p r	†	†
	Roches Point	b c	c	†	†

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 14th JULY 1943

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
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Moderate or fresh southwest winds; cloudy with slight local rain; some coast fog later in south and southwest; rather cool.

Moderate or fresh southwest winds; cloudy with general rain at first becoming intermittent, some coast fog later; rather cool.

Moderate to fresh southwesterly winds; cloudy, general rain spreading from southwest, becoming intermittent later; rather cool.

Moderate to fresh southwest winds; cloudy, general rain spreading from southwest followed by a mainly fair period; rather cool.

16 Orkneys and Shetlands	
17 N.W. Ireland	Fresh southwesterly winds; dull with rain at times; rather cool.
18 N.E. Ireland	
19 S.E. Ireland	
20 S.W. Ireland	

GENERAL INFERENCE

A depression centred off Northwest Ireland is moving northeast. Weather will be generally rather cool and unsettled with some rain in most areas, but with only light falls in the southeast.

FURTHER OUTLOOK

Continuing unsettled.

Forecasts issued at 1030.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Wednesday 14th July 1943.

LOW

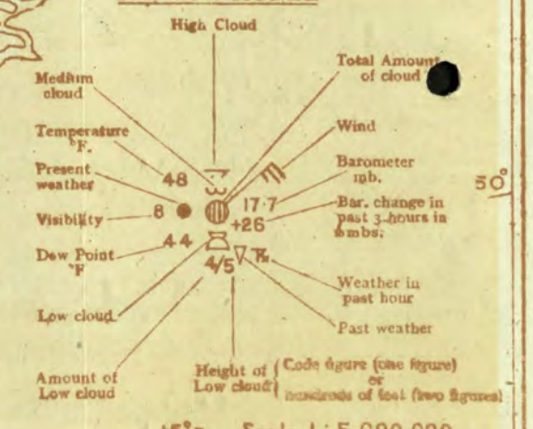
998 1000 1002 1004 1006 1008 1010 1012 1014 1016 1018 1020 1022

HIGH

10° 5°W. 0° 5°E. 10°

80° 55° 50°

STATION MODEL



Scale 1:5,000,000

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Wednesday 14th July

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol.

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 14th July 1943 — No. 29819

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	51	*	*	*	*	*	*	*	*	*
	Croydon ...	290	21·4	+6	SW	2	b-bc	54	85	49	7	-	4	-	0	2-3	-
	S. Farnborough	226	20·9	+2	W'N	3	b	53	85	49	8	-	4	-	0	Tr	-
	Boscombe Down	417	21·3	0	WSW	2	b-bc	49	92	47	7	-	-	9	0	2-3	-
	Thorney Island	10	21·6	+8	W'S	2	b-bc	54	85	50	8	-	4	5	0	2-3	-
	Lympne ..	283	21·1	+8	WNW	3	b	52	86	48	7	-	4	-	0	Tr	-
	Manston ...	154	20·1	+10	SW'W	1	Z_0	51	92	50	6	-	3	-	0	Tr	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	19·3	+10	WSW	3	b	56	85	52	8	-	4	-	0	Tr	-
	Gorleston ...	5	17·3	+12	W'S	1	b-bc	55	75	47	7	-	4	-	0	2-3	-
	Mildenhall ...	15	18·4	+2	SW	3	b-bc	53	92	50	8	5	4	1	Tr	2-3	-
	Cranwell ...	203	17·5	+2	WSW	3	c-bc	56	85	53	7	3	-	-	7-8	7-8	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19·7	+6	WSW	3	b-bc	49	92	49	8	4	-	5	Tr	2-3	5700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	20·8	-4	W	4	c-bc	57	85	51	8	5	-	-	7-8	7-8	2500
	Bristol	209	21·2	+2	SW'W	2	c-bc	55	85	50	8	2	6	-	4-6	7-8	4000
	Portland Bill ...	32	22·3	+12	W	4	c-bc	57	85	53	8	5	-	-	7-8	7-8	4000
	Plymouth ...	86	22·2	-6	W	3	c	57	86	53	8	5	7	-	7-8	9+	2000
	The Lizard ...	240	23·2	+2	W	3	c	55	92	53	8	5	-	-	9+	9+	2000
	Scilly (St. Mary's)	163	22·8	-2	WSW	4	b-bc	57	75	56	8	8	-	-	2-3	2-3	1800
	Guernsey ...	175															
6	Pembroke ...	142	20·0	+4	W	5	c-bc	54	85	51	8	5	4	-	7-8	7-8	2500
7	Holyhead (Valley)	32	17·8	+2	SW	2	c	55	85	51	8	7	-	-	9+	9+	6400
	Chester (Sealand)	16	17·6	+8	-	0	c	57	85	51	8	5	3	-	4-6	9	3500
8	Manchester ...	230	17·3	+6	WSW	3	c-bc	56	85	51	7	4	3	-	2-3	7-8	3000
10	Spurn Head ...	29	16·1	+4	SW'W	7	bc	56	85	52	7	7	3	-	2-3	4-6	2500
	Catterick (Sc)...	192	15·3	+8	SW	1	c-bc	53	85	50	8	5	3	-	4-6	7-8	2000
	Tynemouth ...	108	14·0	+4	W	3	b-bc	54	85	48	7	1	4	-	2-3	2-3	1500
11	St. Abbs Head	280	10·7	+6	W	4	bc	53	85	49	7	4	-	-	2-3	4-6	4000
	Leuchars ...	36	11·2	+8	SW	3	b	51	85	47	8	-	4	-	0	1	-
12	Renfrew (Abbots L.)	19	13·0	+6	SW	3	Z_0	52	92	49	6	8	-	-	4-6	4-6	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	15·6	0	W	3	c-bc	54	85	50	8	4	4	-	Tr	7-8	1800
13A	Tiree	44	12·6	+6	W	3	bc	52	85	48	8	2	3	-	2-3	4-6	2000
13B	Stornoway ...	12	09·4	+6	WSW	3	bc/pr	49	92	47	8	8	3	-	4-6	4-6	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	10·0	+10	SW'W	3	bc	51	75	45	9	5	7	-	4-6	4-6	3000
	Wick ...	114	08·6	+12	WSW	1	b-bc	46	92	44	8	8	3	-	1	2-3	2000
16	Sumburgh ..	19	05·2	+16	W'S	4	c	52	92	50	8	5	7	-	4-6	9+	4000
17	Blacknod Point	18	15·4	-6	WSW	3	c/d	54	85	50	8	6	-	-	10	10	2500
18	Malin Head ...	84	13·7	+2	W	3	c-bc	54	85	50	8	8	-	-	7-8	7-8	1500
	Aldergrove ...	268	15·6	-2	SW'S	2	c-bc	53	85	47	7	8	-	-	7-8	7-8	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	17·4	-22	SSW	4	c/r	55	85	51	8	5	2	-	4-6	10	1500
	Roches Point	22	19·5	-6	W'S	2	Ir_0	54	86	50	8	6	2	-	4-6	9+	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
London (Kew)	20·9	+4	WSW	3	c	57	75	49	8	5	-	-	9+	9+	2500	1	*
Croydon ...	21·5	+4	SSW	2	c	58	75	49	8	7	4	2	7-8	9	3500	0	*
S. Farnborough	21·0	+4	W	3	c	54	85	47	8	5	7	-	7-8	9+	4000	0	*
Boscombe Down	21·0	-2	W'S	2	c	55	85	49	8	8	7	-	7-8	9+	3000	0	*
Thorney Island	21·2	-2	WNW	1	c	58	85	52	8	8	7	-	4-6	9+	2500	0	*
Lympne ..	21·7	+0	WSW	2	b	55	85	51	8	1	3	1	Tr	1	2000	1	2
Manston ...	20·5	+6	WSW	2	b	57	85	52	8	-	7	1	0	Tr	-	0	*
Shoeburyness ...	20·6	+6	W	2	b	59	75	51	7	-	-	1	0	1	-	0	*
Felixstowe ...	19·8	+6	SW	3	b-bc	58	85	54	8	-	3	1	0	2-3	-	0	3
Gorleston ...	18·3	+4	W	3	bc	55	85	51	7	-	3	-	0	4-6	-	0	2
Mildenhall ...	19·0	+4	WSW	3	c-bc	57	85	51	8	1	3	1	Tr	7-8	2500	0	*
Cranwell ...	17·5	0	W	4	c	56	85	53	7	5	7	-	1	9+	4000	0	*
Birmingham ...	18·4	-4	SW	4	C	53	85	49	8	5	7	-	7-8	9+	1500	1	*
Upper Heyford	19·2	0	SW'W	2	c	53	92	51	7	5	7	8	Tr	9	1500	0	*
Ross-on-Wye	19·1	0	SW	2	C	56	75	52	7	5	7	-	7-8	9+	2500	0	*
Hartland Point	18·9	-6	WSW	4	c-bc	57	75	49	8	2	4	-	2-3	7-8	2000	0	4
Bristol	20·7	+4	SW	3	c	56	85	50	8	5	7	-	7-8	9	4000	1	*
Portland Bill ...	20·9	-4	SW	4	c	58	85	54	8	2	4	-	4-6	10	4000	1	4
Plymouth ...	22·0	-2	WSW	4	bc	58	85	55	8	1	4	5	2-3	4-6	2000	0	2
The Lizard ...	21·5	-4	WSW	4	bc	56	92	49	8	5	3	-	4-6	4-6	3000	0	3
Scilly (St. Mary's)	20·1	-10	SW'S	4	c-bc	59	75	50	8	8	7	5	7-8	7-8	1200	0	4
Guernsey ...																	
Pembroke ...	18·5	-6	SW'S	4	d_0d_0	56	92	54	8	8	-	-	10	10	2500	1	4
Holyhead (Valley)	17·1	-2	SW	3	c	56	92	52	8	8	7	-	9+	10	5000	1	2
Chester (Sealand)	17·0	-6	W'S	1	c	58	65	48	8	5	7	-	2-3	10	4400	0	*
Manchester ...	17·1	0	SSW	2	c	56	85	50	7	7	-	-	4-6	9+	2000	0	*
Spurn Head ...	16·7	0	WSW	3	C	58	85	53	7	7	7	6	2-3	9+	2500	0	3
Catterick (Sc)...	16·1	+6	SSW	2	c	62	55	44	7	5	4	-	4-6	9+	3000	0	*
Tynemouth ...	14·8	+4	WSW	2	c-bc	57	75	49	7	2	3	1	4-6	7-8	2100	0	2
St. Abbs Head	12·3	+12	W	3	c-bc	54	85	50	8	5	4	-	4-6	7-8	3500	0	3
Leuchars ...	10·8	+6	SW	2	c	52	85	48	8	1	3	8	Tr	9	3000	0	*
Renfrew (Abbots L.)	12·7	0	SSW	2	c	55	85	49	8	8	7	-	4-6	10	1400	1	*
Eskdalemuir ...	13·5	0	SW'S	3	c	51	92	48	7	5	7	-	4-6	9+	1200	1	*
Point of Ayre...	15·2	+2	W	4	c	55	85	51	8	2	7	-	Tr	9+	2000	0	3
Tiree	11·2	-8	SW	2	c	55	85	49	9	2	7	-	Tr	9+	2000	1	2
Stornoway ...	08·9	-2	SSW	2	c	52	85	49	8	8	3	3	7-8	9	2500	1	1
Dalwhinnie ...	11·5	0	S	2	c	50	75	42	8	5	-	2	4-6	9+	2500	1	*
Aberdeen † ...	11·4	+8	SW	2	c-bc	53	92	51	8	5	4	9	Tr	7-8	2500	1	1
Wick ...	09·4	+8	SW	3	bc	54	85	48	9	8	7	-	2-3	4-6	2500	0	*
Sumburgh ..	06·3	+10	W'S	4	c-bc	53	85	49	8	5	-	-	7-8	7-8	4000	1	2
Blacknod Point	08·5	-16	SE'S	3	RR	53	92	51	7	6	2	-	4-6	10	1500	2	3
Malin Head ...	11·7	-10	S'W	2	c	52	85	48	8	5	-	-	10	10	800	2	2
Aldergrove ...	13·6	-12	SSW	2	Ir_0	52	85	49	7	5	1	-	4-6	10	2000	1	*
Birr Castle ...	13·0	-18	S	2	rr	50	97	49	7	6	2	-	7-8	10	800	1	*
Valentia Obsy.	10·3	-26	S'W	5	rr	58	97	57	6	6	-	-	10	10	800	1	4
Roches Point	14·3	-22	SW	5	rr	55	97	54	6	6	2	-	4-6	10	800	1	4

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 13th Hrs. (38)
London (Kew)	67	53	45	Tr	-	7·4
Croydon ...	68	52	48	Tr	-	10·6
S. Farnborough	68	49	41	Tr	-	10·5
Boscombe Down	67	46	37	Tr	Tr	10·3
Thorney Island	70	50	44	Tr	Tr	*
Lympne ..	67	49	43	Tr	-	11·8
Manston ...	68	50	46	Tr	-	10·0
Shoeburyness ...	70	52	47	-	-	10·1
Felixstowe ...	69	53	49	Tr	-	10·0
Gorleston ...	66	53	46	0·3	-	8·9
Mildenhall ...	68	50	45	-	Tr	7·6
Cranwell ...	66	53	49	Tr	-	8·4
Birmingham ...	64	51	46	Tr	-	3·7
Upper Heyford	66	47	37	Tr	-	*
Ross-on-Wye	67	52	48	-	-	3·7
Hartland Point	61	52	52	-	0·1	11·4
Bristol	65	52	46	4	0·1	5·7
Portland Bill ...	62	51	*	-	-	*
Plymouth ...	64	52	46	0·5	-	4·4
The Lizard ...	63	54	*	*	-	7·0
Scilly (St. Mary's)	66	55	*	-	-	8·6
Guernsey ...						
Pembroke ...	60	55	*	-	Tr	12·2
Holyhead (Valley)	66	54	50	-	-	*
Chester (Sealand)	66	55	50	-	-	7·8
Manchester ...	63	53	48	Tr	-	*
Spurn Head ...	63	54	*	Tr	-	6·9
Catterick (Sc)...	67	53	47	-	-	8·8
Tynemouth ...	65	51	47	-	-	*
St. Abbs Head	63	52	*	Tr	-	*
Leuchars ...	66	48	43	Tr	-	8·8
Renfrew (Abbots L.)	62	50	46	1	1	7·5
Eskdalemuir ...	61	46		1	1	6·7
Point of Ayre...	63	52	*	1	-	3·2
Tiree	60	51	48	1	-	4·6
Stornoway ...	58	48	36	5	0·1	2·0
Dalwhinnie ...	57	46	43	0·6	3	4·6
Aberdeen † ...	64	48	39	1	-	8·2
Wick ...	62	45	36	0·2	-	*
Sumburgh ..	58	51	48	-	1	8·0
Blacknod Point	61	51	*	-	6	*
Malin Head ...	59	51		0·1	3	4·4
Aldergrove ...	62	45	46	0·1	-	4·1
Birr Castle ...	64	50	49	-	5	3·6
Valentia Obsy.	60	53	52	Tr	10	1·4
Roches Point	63	54		-	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 13th July				18h. G.M.T.				01h. G.M.T. 14th July				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
109	23	02844	26425	83	02854	26515		37	02744	22426		10	01744	23514	
115	57	02844	24527	53	10944	24527		87	02844	24425		57	02844	20487	
203															
206	52	61955	55588	53	22854	57565		6-	02855	22225		83	02964	22485	
210	86	25955	23480	52	62843	59567		53	01953	21384		53	02958	22326	
219	86	02855	26783	86	02845	24615		8-	02857	23527		87	02854	18226	
230	86	25855	59846	8-	10857	22387		8-	81866	21386		82	81956	18187	
245	87	25965	24486	89	01963	58483		50	01953	22313		54	02861	22316	
260	2-	25744	25485	26	02854	53515		6-	02755	20325		57	02754	20415	
278	86	02855	60686	8-	02847	26327						57	02852	20227	
279	8-	22855	26565	86	02864	24425		46	01864	24384		79	25845	23487	
285	27	25744	24685									27	25744	24587	
288	87	02854	55515	16	01954	56614		53	01863	24384		87	02890	19327	
575	8-	02855	59585	8-	02854	60587		63	02854	20225		52	62745	17168	
301	57	02754	24727	23	02851	28425		6-	02867	24427		57	02856	22357	
321	26	05654	57665	26	02754	58525		43	02764	24225		57	05664	20228	
290	80	14755	20515	24	01744	20514		80	01753	22313		54	01755	24315	
292	26	01854	57684	26	01954	57414		4-	02865	23315		57	02853	22327	
310	--	25628	24588									--	25618	20288	
614	8-	25654	58487	16	01861	24514		44	25663	23185		57	05666	22228	

13h. G.M.T. 13th July				18h. G.M.T.				01h. G.M.T. 14th July				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
388	24	01854	58513	13	01852	22414		5-	02866	23326		27	81854	23328	
336	--	63647	26488									--	53537	26288	
340	86	02856	61427	76	02965	25326		57	02865	22228		57	02962	20388	
136	27	25864	20687	86	02866	22486		03	02790	20214		57	05673	18327	
386	37	02756	28528	10	01754	28414						13	01752	20415	
350	8-	81845	56586	46	01864	57414		00	01890	21314		07	02790	22416	
368	80	01764	59584	73	01853	57514		53	01653	22313		83	02554	55315	
370	7-	81845	26427	4-	02855	24485		00	00790	23310		57	02744	20417	
390	8-	02756	22426	83	02762	24425		00	05690	22221		23	01690	22214	
382	86	02854	57485	86	01854	25314		04	01890	22201		37	02864	23316	
438				20	01754	22714		50	05653	24313		20	01763	24313	
430	26	01854	22524	13	01954	55414		00	01790	28112		57	02755	22126	
409	2-	02855	57585	2-	02856	24416		53	02865	24327		17	02851	18415	

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 14th July

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	cb ccy bcycy	cp r_0 bcc cybcy	cbcbcc bcybcc	Kew 24 hours ended 7h. clo ax. Time 20·1 whole period Min. Time
Croydon ..				
Greenwich ...	cy c	dr_0 bcy c	pr_0 bcy	
Camden Square	bc	bc	*	
Kensington ...				
Hampstead ...				

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	67	53	45	Tr	-	7·4	*	*
Croydon ...	68	52	48	Tr	-	10·6	*	*
Greenwich ...	69	51	41	Tr	-	9·7	47	49
Westminster ...	69	53	47	-	-	*	61	73
Regents Park ..	68	52	48	Tr	-	*	61	63
Camden Square	69	52	48	Tr	-	*	*	71
Kensington ...	70	51	42			*		53
Hampstead ...							*	

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 15th July 1943 — No. 29820

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	20·0	-4	SW'S	4	c	62	65	49	8	8	7	-	9	9+	1500
	Croydon ...	21·3	-6	SW	3	c	61	65	49	8	5	7	-	7-8	10	4000
	S. Farnborough	20·2	-6	SW'N	4	ifo	64	55	49	8	8	7	-	9	9+	2000
	Boscombe Down	20·1	-6	SW'N	4	c/pr	62	65	49	8	8	7	-	7-8	9+	2500
	Thorney Island	21·2	-2	SW	4	c	64	65	51	9	8	6	-	4-6	9+	2000
	Lympne ...	21·8	+2	SW'N	4	c	62	65	49	8	8	-	-	2-3	9	2000
	Manston ...	20·3	-6	SW'N	4	c	63	55	47	8	5	-	6	9	10	3000
2	Shoeburyness ...	20·6	-4	SW	3	c	65	55	47	8	5	3	-	4-6	10	2500
	Felixstowe ...	19·4	-2	SW'S	4	c	61	85	58	7	5	7	-	7-8	9+	3700
	Gorleston ...	18·5	+4	SW	4	c	66	55	47	7	8	7	-	7-8	9	2000
	Mildenhall ...	18·7	-2	SW'N	4	c	62	65	48	8	5	7	-	4-6	10	2200
	Cranwell ...	17·4	-2	WSW	4	ir	59	75	52	6	5	2	-	9	10	2000
3	Birmingham ...	17·9	-6	SSW	4	ifo	56	85	52	8	6	7	-	7-8	10	1500
	Upper Heyford	18·5	-12	WSW	3	dr	60	75	51	7	5	2	-	2-3	10	2500
4	Ross-on-Wye	18·1	-10	SW'S	3	c/r	59	75	51	8	6	2	-	4-6	10	2500
5	Hartland Point	16·8	-14	WSW	5	c/r	60	85	54	8	2	7	-	2-3	9	2000
	Bristol ...	19·3	-14	SSW	3	ifo	64	55	50	8	5	7	-	4-6	9+	4000
	Portland Bill ...	20·1	-12	SW	4	c-bc	60	85	56	8	2	4	-	7-8	7-8	4000
	Plymouth ...	21·3	-2	SW	3	c	61	85	57	8	5	7	-	4-6	9+	1800
	The Lizard ...	20·0	-10	SW	5	c-bc	62	75	56	8	5	-	-	7-8	7-8	2500
	Scilly (St. Mary's)	18·3	-10	SSW	5	o/p	62	85	56	7	5	-	-	10	10	1500
	Guernsey ...															
6	Pembroke ...	15·7	-14	SW'N	6	rr	57	97	57	6	5	-	-	10	10	2500
7	Holyhead (Valley)	14·4	-14	S'E	6	c/r	59	85	55	7	5	2	-	7-8	10	2000
	Chester (Sealand)	14·7	-24	S	2	c	61	75	52	8	5	7	-	7-8	9+	2000
8	Manchester ...	16·2	-12	S	4	ifo	56	85	52	7	5	7	-	4-6	10	3000
10	Spurn Head ...	16·9	+2	WSW	4	ido	60	75	52	7	5	-	-	9+	9+	2500
	Catterick (Sc.) ...	15·2	-8	SW	3	c/d	58	75	48	8	5	2	-	4-6	10	2500
	Tynemouth ...	14·8	-2	SW	3	c/pr	58	75	48	7	8	-	-	9+	9+	2100
11	St. Abbs Head	11·5	-8	SW	3	c	60	65	48	8	5	2	-	7-8	9+	2700
	Leuchars ...	11·5	-6	WSW	5	ifo	58	65	48	6	8	7	-	9	10	1500
12	Renfrew (Abbotsl.)	11·2	-10	S	2	rofo	55	92	52	6	5	2	-	4-6	10	1200
	Eskdalemuir ...	12·4	-6	SW'S	4	ir	52	85	48	6	-	2	-	10	10	800
	Point of Ayre ...	12·1	-24	SW	4	rofo	57	85	52	8	9	7	-	4-6	10	3000
13A	Tiree	08·3	-22	SSE	4	rofo	54	82	52	7	6	2	-	4-6	10	1500
13B	Stornoway ...	08·2	-6	SSW	1	c	55	85	49	8	8	7	-	7-8	9+	1500
15	Dalwhinnie ...	10·0	0	S	3	c	52	75	46	7	5	2	5	9	10	2500
	Aberdeen ...	10·6	-6	WSW	2	c/pr	58	75	50	8	2	3	6	4-6	9+	3000
	Wick ...	10·0	+2	W'S	3	pr	56	75	48	9	8	-	-	9+	9+	2500
16	Sumburgh ...	08·3	+10	W'S	4	c	56	85	52	8	8	-	1	8	9	3500
17	Blacksod Point	04·4	-2	SW	5	ido	59	85	55	7	6	2	-	4-6	10	1500
18	Malin Head ...	05·5	-42	SE'S	3	rr	54	92	52	8	5	-	-	10	10	800
	Aldergrove ...	08·3	-38	S'E	3	c	57	92	54	7	5	2	-	8	9+	900
19	Birr Castle ...	07·4	-22	WSW	4	c-bc	69	65	57	8	6	2	1	4-6	7-8	1500
20	Valentia Obsy.	09·4	-4	SW'S	5	ir	61	97	60	6	6	-	-	10	10	800
	Roches Point	11·3	-10	SW	5	id	58	97	57	6	5	-	-	10	10	450

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	18·3	-10	SW	4	c	64	55	48	8	8	-	6	7-8	9+	2500	1	*
	Croydon ...	19·1	-10	SSW	4	c	63	55	49	8	5	7	-	4-6	9	4000	0	*
	S. Farnborough	18·8	-6	SW'N	4	c-bc	64	65	50	8	7	7	7	4-6	7-8	2000	0	*
	Boscombe Down	18·8	-8	SW	4	c	61	65	49	8	5	7	-	4-6	9+	2500	0	*
	Thorney Island	19·8	-10	SW	3	c	62	65	50	9	4	6	4	4-6	9+	2500	0	*
	Lympne ...	20·2	-8	SW'N	4	c-bc	60	75	60	8	4	4	6	2-3	7-8	3000	0	4
	Manston ...	19·4	-10	SW	4	c-bc	62	65	50	8	5	7	6	2-3	7-8	3000	0	*
2	Shoeburyness ...	18·9	-12	SW	5	c/r	64	65	50	8	-	7	1	0	9+	-	0	*
	Felixstowe ...	18·3	-14	SW'S	4	r.	64	75	57	8	5	3	5	4-6	9+	4000	0	4
	Gorleston ...	17·6	-6	SW'N	3	c	65	75	57	7	5	-	-	10	10	2000	0	3
	Mildenhall ...	16·9	-14	SW'S	4	c	65	65	51	8	5	7	-	7-8	9+	4000	0	*
	Cranwell ...	15·4	-8	SSW	4	c	63	75	54	8	5	7	-	4-6	10	2500	1	*
3	Birmingham ...	15·6	-12	SSW	4	c	61	75	53	8	5	-	-	10	10	1500	1	*
	Upper Heyford	16·9	-10	SW'N	4	c	63	65	52	8	5	7	8	4-6	10	2800	0	*
4	Ross-on-Wye	16·3	-12	SW'N	4	c	61	75	54	8	5	7	-	9	10	2500	0	*
5	Hartland Point	16·2	-8	SW	5	ifo	58	97	58	6	5	2	-	9	10	400	1	4
	Bristol ...	17·9	-6	SSW	4	ifo	61	75	54	8	5	2	-	4-6	10	4000	1	*
	Portland Bill ...	19·0	-6	SW	4	c	59	85	55	8	5	-	-	10	10	4000	1	4
	Plymouth ...	19·9	-6	SSW	3	d-do	59	97	59	6	6	2	-	9	10	500	1	2
	The Lizard ...	18·4	-4	SW	6	ido	59	92	57	7	5	-	-	10	10	1000	1	5
	Scilly (St. Mary's)	16·3	-10	SW'S	5	c	61	85	57	7	5	-	-	10	10	1200	0	5
	Guernsey ...																	
6	Pembroke ...	14·1	-4	SW	5	ido	58	97	58	6	5	-	-	10	10	500	1	2
7	Holyhead (Valley)	10·6	-26	S'W	7	ifo	59	97	59	5	5	-	-	10	10	200	1	5
	Chester (Sealand)	11·6	-20	SSW	3	c/pr	62	85	56	8	5	7	-	4-6	9+	8500	1	*
8	Manchester ...	12·8	-20	SSW	4	c/r	60	65	48	9	5	2	-	7-8	10	2000	1	*
10	Spurn Head ...	15·1	-14	SSW	4	c	61	75	53	7	5	-	-	9+	9+	2500	0	3
	Catterick (Sc.) ...	12·2	-18	SE	3	ido	57	85	53	6	5	2	-	9	10	1000	1	*
	Tynemouth ...	12·9	-12	S	3	c	56	85	52	6	8	-	-	9+	9+	2200	1	2
11	St. Abbs Head	09·2	-12	SSE	4	rofo	54	97	54	6	5	2	-	7-8	10	2500	1	3
	Leuchars ...	08·7	-22	SE	3	rofo	55	92	53	4	5	2	-	7-8	10	600	1	*
12	Renfrew (Abbotsl.)	06·7	-26	-	0	zo	58	92	55	5	5	-	-	7-8	10	1000	1	*
	Eskdalemuir ...	08·4	-30	S'E	3	rofo	53	97	52	5	-	2		10	10	200	1	*
	Point of Ayre ...	07·8	-22	SW'N	4	c	61	92	59	8	5	7	-	1	9+	800	1	3
13A	Tiree	03·8	-20	SE	4	rofo	54	97	54	7	5	2	-	7-8	10	1000	1	3
13B	Stornoway ...	06·9	-6	-	0	c/pr	55	85	50	8	8	7	-	7-8	9+	1800	1	1
15	Dalwhinnie ...	07·0	-24	S	3	o	51	85	47	7	5	-	-	10	10	1500	1	*
	Aberdeen ...	09·4	-8	SSW	2	c	56	75	48	8	8	7	-	Tr	10	2500	1	1
	Wick ...	08·6	-12	SSW	3	c	57	85	51	9	8	5	-	2-3	9	2500	0	*
16	Sumburgh ...	08·9	0	SW	3	c	55	85	50	8	-	7	6	0	9	-	0	2
17	Blacksod Point	04·0	-4	SSW	5	ido	58	92	56	7	6	2	-	4-6	10	1500	2	4
18	Malin Head ...	03·3	-2	SW'N	2	c	59	85	54	8	5	-	-	10	10	800	2	2
	Aldergrove ...	05·3	-10	SW	3	c	63	75	55	8	8	7	-	7-8	9+	2000	1	*
19	Birr Castle ...	07·0	-2	WSW	2	ir	62	92	60	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy.	08·9	-2	SW'S	4	c/r	57	97	56	7	5	-	-	10	10	1500	1	4
	Roches Point	10·1	-10	SW'S	5	DR	58	97	57	4	5	-	-	10	10	450	0	

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 14th (36)	Weather. 13h.–18h. 14th (40)	Weather. 18h. 14th to 1h. 15th (41)	Weather. 1h.–7h. 15th (42)
1	London (Kew)	cbcc	cicocpoc	cbc	bcc
	Croydon ...	cyc	cycicocy	cycbc	cbcc
	S. Farnborough	ccyifo	cifoyc	cbcc	c
	Boscombe Down	cpfoc	cpfoc	c	o
	Thorney Island	c	cypfoc	c	c
	Lympne ...	bbccidoc	ccpfocbc	cbcc	c
	Manston ...	bccy	cbcyifoc	cbc	cbcy
2	Shoeburyness ...	bccy	cyifoc	cbc	bcc
	Felixstowe ...	bcc	c	cbccbc	cbc
	Gorleston ...	bcycy	cy	c	pcc
	Mildenhall ...	bc,cy	cyicocy	cycbc	bcc
	Cranwell ...	cciromo	c	ciro.c	c
3	Birmingham ...	cifo	cbcc	c	c
	Upper Heyford	ccforomo	fodoifoc	c	cidoc
4	Ross-on-Wye	cifo	c	ccidoc	opcpoc
5	Hartland Point	cifo	cifoc	cfofoOc	cifoido
	Bristol ...	cciro	cyifoccifo	cifo cc	ccido
	Portland Bill ...	c	c	c	co
	Plymouth ...	cfofoc	cifodo	cmo	cmoifof
	The Lizard ...	bcc	cid	odf	odf
	Scilly (St. Mary's)	cpoc	cpoc	coddddc	cofeo
	Guernsey ...				
6	Pembroke ...	crmob	cdodbidomo	focmoo	cpromo
7	Holyhead (Valley)	cifoc	cifoDD	rrdd.cm	ddfofo
	Chester (Sealand)	ifofofo	focpfo	c	epfoifo
8	Manchester ...	cpfopr	cifoir	ir fofo	ifomoc
10	Spurn Head ...	cid	c	c	c
	Catterick (Sc.) ...	ccidoc	cidomo	cifoc	cifomo
	Tynemouth ...	cpocpo	cmo	c	epomo
11	St. Abbs Head	bcc	cmofo	cfomocid	crrmo
	Leuchars ...	ccycclfo	ifomfomo	cfofomcifo	cifomorr
12	Renfrew (Abbotsl.)	ccmofofo	cmofofomdomo	c.c.mo	cmocfofo
	Eskdalemuir ...	coir	pifo	dodomof	fofofmo
	Point of Ayre ...	cfofr	cfofoc	crrc	crr
13A	Tiree	ccfofo	cfofo	cfodomo	odcdfdfmo
13B	Stornoway ...	cpdoc	ccpfoc	cfofo crr	crrfofomo
15	Dalwhinnie ...	cpfoo	opfoco		opfoco
	Aberdeen ...	dbccPR	c	cdodifoc	bccdodo
	Wick ...	cpfo	ccpfoc	cfofoc	cdodomo
16	Sumburgh ...	bcc	b,c ⊕	c	cfofodido
17	Blacksod Point	d	d	d	c
18	Malin Head ...	r	r	r	r
	Aldergrove ...	ifofofomocc	c	cifocifo	cifoccido
19	Birr Castle ...	r	r	•	r
20	Valentia Obsy.	r	r	r	r
	Roches Point	r	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 15th July

Districts	
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands	Fresh southerly winds veering west and moderating. Cloudy with rain spreading from West, followed by fair conditions tonight; risk of local thunder in southeast this evening: much hill fog today: close becoming cooler.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ...	Moderate or fresh southerly winds, soon veering west to northwest and moderating. Much cloud; hill fog and some rain early, soon becoming fair, with a few showers: close, becoming cooler.
10 N.E. England 11 S.E. Scotland	As 1-4
12 S.W. Scotland & Isle of Man 13A W. Scotland ...	Moderate west to northwest winds, backing later. Cloudy with occasional rain at first; showers later: rather cool.
13B N.W. Scotland	Moderate northerly winds, backing westerly, light. Rain at first with much hill fog; showers later: rather cool.
14 Mid Scotland 15 N.E. Scotland	As 12-13A. Variable moderate winds, becoming northwest later. Much
16 Orkneys and Shetlands	cloud and rain today; showers tomorrow: rather cool.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate or fresh northwesterly winds, backing south tomorrow. Scattered showers today; rain spreading from west tomorrow with much hill fog: rather cool.

GENERAL INFERENCE

A depression over West Scotland is moving northeast and a trough of low pressure is moving east across the British Isles. There will be rain in most parts of Great Britain, followed by showers in the North and West and fair conditions in the East; there will be showers in Ireland today and rain tomorrow.

FURTHER OUTLOOK

Rain spreading east across the British Isles.

Forecasts issued at

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Thursday 15th July 1943.

10° 5°W. 0° 5°E. 10°

80° 55° 50°

1002 1004 1006 1008 1010 1012 1014 1016 1018

LOW

HIGH

HIGH

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Height of Low cloud (Code figure (one figure) or hundreds of feet (two figures))

Scale 1.: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Thursday 15th July,

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Thursday 15th July 1943

No. 23820

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	58	*	*	*	*	*	*	*	*	*
	Croydon ...	290	18·5	−6	SSW	2	c-bc	57	85	52	8	5	4	2	Tr	7-8	3500
	S. Farnborough	226	17·4	−8	SW	2	c	58	85	54	8	5	7	−	4-6	9+	1200
	Boscombe Down	417	17·3	−6	SWS	3	c	58	92	55	7	5	2	−	9+	10	800
	Thorney Island	10	18·0	−12	SWS	3	c-bc	59	85	54	9	−	7	−	0	7-8	−
	Lympne ..	283	19·5	−6	SSW	2	c	56	85	50	8	5	3	6	4-6	9+	3000
	Manston ...	154	18·7	−6	SWS	3	c	58	75	49	8	5	3	2	7-8	9	5700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	17·4	−4	SSW	3	b-bc	58	85	52	8	−	3	2	0	2-3	−
	Gorleston ...	5	16·2	−4	SW	4	c-bc	58	75	50	7	8	7	−	4-6	7-8	1500
	Mildenhall ...	15	15·7	−10	SSW	3	bc	57	75	50	8	5	7	−	2-3	4-6	4000
	Cranwell ...	203	13·6	−6	SW	6	c	59	92	57	7	5	7	−	7-8	10	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	16·2	−6	SSW	4	c	58	85	55	7	5	−	−	10	10	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	13·3	−8	SW	5	ir.	60	97	59	6	5	2	−	9	10	800
	Bristol ...	209	15·9	−14	S	5	c	59	92	57	8	5	7	−	7-8	9+	1000
	Portland Bill ...	32	17·3	−12	SW	5	c	59	85	55	8	5	−	−	10	10	4000
	Plymouth ...	86	16·1	−16	SW	4	ir.	59	97	59	5	5	−	−	10	10	400
	The Lizard ...	240	16·5	−16	SW	5	df	58	97	58	3	5	−	−	10	10	400
	Scilly (St. Mary's)	163	14·5	−10	SW	5	0	60	97	59	6	5	−	−	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	11·7	−18	W	4	0q	58	97	58	7	5	−	−	10	10	2500
7	Holyhead (Valley)	32	09·4	−6	SSW	7	zr	58	97	58	6	−	2	−	10	10	300
	Chester (Sealand)	16	10·0	−14	SWS	3	c-bc	57	75	57	7	5	2	−	4-6	7-8	3000
8	Manchester ...	230	11·2	−10	S	4	c/r	59	92	57	7	6	2	−	7-8	10	1300
10	Spurn Head ...	29	12·7	−8	SSW	4	c	59	85	54	7	5	3	−	4-6	9	2500
	Catterick (Sc) ...	192	08·5	−8	SSE	2	ir.	59	97	58	6	5	2	−	7-8	10	1200
	Tynemouth ...	108	09·4	−6	S	3	c-bc	60	85	56	7	8	−	−	7-8	7-8	2500
11	St. Abbs Head	280	06·3	−4	SSW	4	id.	58	97	58	6	5	−	−	10	10	2500
	Leuchars ...	36	04·8	−6	SSW	1	c/r	59	92	56	6	5	2	−	9	10	1300
12	Bentfaw (Abbots L.)	19	05·3	−2	SW	1	zo	59	92	57	6	5	2	−	7-8	10	1400
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	02·7	+4	W	5	c	61	92	59	8	8	7	−	7-8	9+	1000
13A	Tiree	44	03·2	−2	SSW	3	d. d.	58	85	51	6	5	−	−	10	10	300
13B	Stornoway ...	12	03·6	−14	NE	3	zo	53	92	52	7	5	2	−	7-8	9+	900
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	05·4	−14	SE	1	c	55	97	54	5	−	2	−	10	10	500
	Wick ...	114	06·3	−14	SE	2	c	53	97	52	7	5	2	−	7-8	10	1000
16	Sumburgh ..	19	07·7	−8	SE	4	c	54	92	52	8	5	7	−	7-8	9+	2500
17	Blacknod Point	18	05·0	+14	WSW	4	id.	55	97	55	7	6	2	−	4-6	10	1500
18	Malin Head ...	84	02·4	−6	S'E	3	c-bc	57	85	53	8	5	−	−	7-8	7-8	800
	Aldergrove ...	268	05·4	−6	S'W	2	ir.	56	92	54	7	5	2	−	9	10	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08·7	−6	SW	2	rr	55	97	55	7	5	2	−	4-6	10	1500
	Roches Point	22	08·7	−8	SSW	4	rr	57	97	57	7	6	2	−	4-6	9+	800

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	15·6	−6	SSW	3	c	61	75	54	8	8	−	−	9	9	2500	1	*
	Croydon ...	16·7	−10	SW	2	c-bc	63	75	54	8	5	4	4	4-6	7-8	4500	0	*
	S. Farnborough	15·4	−6	SWS	4	c	61	85	56	8	5	7	7	4-6	9+	3000	0	*
	Boscombe Down	15·5	+6	S'W	4	o/d	58	97	56	7	5	−	−	10	10	800	0	*
	Thorney Island	16·5	−6	SSW	4	c	61	85	56	5	5	7	−	7-8	9+	3500	0	*
	Lympne ..	17·6	−6	SW	2	b-bc	62	75	54	8	−	8	9	0	2-3	−	0	3
	Manston ...	17·1	−10	S	2	bc	62	75	54	8	−	3	2	0	4-6	−	0	*
2	Shoeburyness ...	16·7	−4	SSW	3	bc	64	75	54	8	−	3	1	0	4-6	−	0	*
	Felixstowe ...	16·2	−4	SSW	4	c-bc	62	92	60	8	−	3	2	0	7-8	−	0	3
	Gorleston ...	15·4	0	SWS	4	c-bc	58	85	52	7	−	7	−	0	7-8	−	0	4
	Mildenhall ...	14·0	−8	SSW	4	c	61	75	54	8	5	3	−	4-6	9	4000	0	*
	Cranwell ...	11·5	−10	SW	5	c	62	85	59	8	5	3	9	9	9+	800	1	*
3	Birmingham ...	11·6	−8	SSW	5	c	59	92	57	8	5	−	−	10	10	1500	1	*
	Upper Heyford	14·2	−8	SSW	3	c	59	92	56	8	5	2	−	7-8	10	800	0	*
4	Ross-on-Wye	12·6	−10	SSW	3	c	60	92	57	7	5	−	−	10	10	2000	1	*
5	Hartland Point	10·9	−12	SW	5	id.	61	92	59	6	5	2	−	9	10	600	1	5
	Bristol ...	13·9	−10	SSW	4	id.	61	92	58	8	5	−	−	10	10	800	1	*
	Portland Bill ...	15·6	−6	SW	5	o	60	92	56	7	5	−	−	10	10	2500	1	4
	Plymouth ...	15·1	−2	SW	3	df	59	97	59	3	5	−	−	10	10	1150	1	3
	The Lizard ...	13·4	−10	WSW	5	df	59	97	59	2	5	−	−	10	10	200	1	*
	Scilly (St. Mary's)	12·1	−8	SSW	5	o/p	60	97	60	7	5	−	−	10	10	600	1	5
6	Pembroke ...	09·6	−12	SW/S	6	c q	59	97	59	7	5	−	−	10	10	2500	0	4
7	Holyhead (Valley)	07·1	−10	SSW	7	rr	59	97	59	5	−	2	−	10	10	300	1	5
	Chester (Sealand)	08·8	−6	S	2	c/r	61	92	59	7	5	7	−	4-6	10	2500	1	*
8	Manchester ...	09·5	−6	S'W	5	c	62	85	56	8	5	7	−	9	9+	2000	1	*
10	Spurn Head ...	11·6	−4	SSW	4	c	61	92	58	7	6	3	−	4-6	9+	2500	0	3
	Catterick (Sc) ...	07·5	−12	SSW	4	ir.	62	92	59	6	5	7	−	7-8	10	1200	1	*
	Tynemouth ...	07·1	−10	S	3	c/pr	61	92	58	5	8	−	−	9+	9+	1700	1	2
11	St. Abbs Head	04·1	−8	SE	3	rr	56	97	56	6	5	−	−	10	10	2000	1	3
	Leuchars ...	04·0	−6	SW	1	rr	57	85	54	6	5	2	−	7-8	10	1000	1	*
12	Bentfaw (Abbots L.)	04·4	−4	S'W	3	zo	57	85	53	6	5	2	−	2-3	10	1200	1	*
	Eskdalemuir ...	05·2	+6	SW	3	ir.	53	97	51	6	−	2	−	10	10	300	1	*
	Point of Ayre ...	05·6	−2	W	4	rr	55	97	54	7	6	2	−	10	10	3000	1	3
13A	Tiree	01·6	−14	S	2	dr	55	97	55	6	5	−	−	10	10	100	1	3
13B	Stornoway ...	02·1	−10	−	0	ir.	53	97	52	6	6	2	−	4-6	10	800	1	1
15	Dalwhinnie ...	03·0	−4	SW	3	c	55	85	50	7	5	2	−	7-8	10	1500	1	*
	Aberdeen † ...	03·6	−6	SSW	3	d. d.	58	92	55	7	−	2	−	10	10	1500	1	1
	Wick ...	03·1	−8	SSE	1	c	55	92	54	6	5	2	−	8	10	3000	1	*
16	Sumburgh ..	05·7	−8	SE	4	d. d.	52	97	52	5	5	2	−	9+	10	400	1	2
17	Blacknod Point	07·3	+4	WNW	4	c	56	92	54	8	8	−	−	9+	9+	1500	1	3
18	Malin Head ...	01·3	−2	WSW	4	ir.	55	92	53	6	−	2	−	10	10	800	2	3
	Aldergrove ...	04·3	+2	SSW	3	id.	55	92	53	9	5	2	−	9	10	1200	1	*
19	Birr Castle ...	07·3	+2	WSW	1	c	55	97	54	7	6	2	−	7-8	10	800	1	*
20	Valentia Obsy.	09·5	+10	NW'W	1	b	56	92	54	8	2	3	−	1	1	1500	1	2
	Roches Point	08·1	+16	N'N	3	c-bc	55	97	54	8	5	−	−	7-8	7-8	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 14th Hrs. (38)
1	London (Kew)	64	57	51	Tr	−	1·8
	Croydon ...	65	57	53	Tr	−	2·3
	S. Farnborough	66	56	49	Tr	−	1·8
	Boscombe Down	67	56	54	Tr	Tr	1·8
	Thorney Island	66	58	54	Tr	−	*
	Lympne ..	66	54	53	Tr	−	5·1
	Manston ...	65	55	53	Tr	−	6·8
2	Shoeburyness ...	67	56	50	−	−	3·9
	Felixstowe ...	67	54	53	−	−	3·2
	Gorleston ...	67	55	53	−	−	6·0
	Mildenhall ...	65	56	48	−	−	4·4
	Cranwell ...	63	57	55	0·1	Tr	0·7
3	Birmingham ...	62	57	57	1	−	0·9
	Upper Heyford	65	58	52	0·4	Tr	*
4	Ross-on-Wye	65	58	57	1	1	0·5
5	Hartland Point	61	59	58	0·3	3	0·9
	Bristol ...	66	58	57	Tr	Tr	1·4
	Portland Bill ...	60	56	*	−	−	*
	Plymouth ...	62	57	57	0·5	0·6	3·2
	The Lizard ...	63	57	*	Tr	2	4·4
	Scilly (St. Mary's)	62	59	*	0·1	0·4	1·1
6	Pembroke ...	59	58	*	3	0·6	0·0
7	Holyhead (Valley)	59	57	58	2	5	*
	Chester (Sealand)	65	57	58	1	0·3	0·7
8	Manchester ...	68	57	51	2	2	*
10	Spurn Head ...	64	58	*	Tr	0·3	1·0
	Catterick (Sc) ...	60	56	50	Tr	0·4	0·4
	Tynemouth ...	62	56	54	1	1	*
11	St. Abbs Head	61	53	*	0·5	3	*
	Leuchars ...	63	54	54	2	4	4·1
12	Bentfaw (Abbots L.)	58	56	53	4	1	0·0
	Eskdalemuir ...	56	53	53	6	8	0·5
	Point of Ayre ...	62	55	*	Tr	7	0·0
13A	Tiree	57	54	54	4	3	0·1
13B	Stornoway ...	57	52	51	2	4	0·8
15	Dalwhinnie ...	55	50	49	0·5	1	1·8
	Aberdeen † ...	62	57	51	2	0·6	3·5
	Wick ...	60	52	51	0·4	†	*
16	Sumburgh ..	58	51	46	−	1	9·6
17	Blacknod Point	59	53	*	3	2	*
18	Malin Head ...	64	55		6	0·1	0·0
	Aldergrove ...	67	49	42	3	1	1·0
19	Birr Castle ...	68	54	52	2	6	0·6
20	Valentia Obsy.	61	54	51	3	3	0·0
	Roches Point	61	55		4	11	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 14th July ... 18h. G.M.T. | 01h. G.M.T. 15th July ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	73	02854	24326	53	02844	12225	52	21744	13328	52	21527	16257
115	54	02344	20326	52	02944	24125	52	62735	08368			
203												
206	5-	61855	00057				51	02745	00058	53	04634	00057
210	84	81965	08327	87	02955	08327	57	02863	10167	57	02975	15127
219	27	25845	18388				02	52628	06468	62	52626	02268
290	52	61845	16168	52	61746	00068	62	52546	00068	5-	12858	20158
245	71	02855	20327	62	58688	15368	52	05624	18128	52	62534	20268
260	52	02758	22428	57	05644	05127	5-	02755	20328	5-	22758	20168
278	62	52636	13368	62	02817	16358	52	62844	20368	52	02845	16268
279	52	58845	18468	5-	51658	16658	52	62646	18468	52	58735	21468
285	27	81745	24588							62	63624	22568
288	52	21855	18358	52	22646	13268	5-	51648	16428	57	22764	17467
575	62	52744	12357	57	02855	52627	54	02755	18128	62	51748	24428
301	62	62645	16468	62	62546	16468	5-	22648	18468	57	61645	16368
321	52	62654	20368	57	22654	18466	57	05646	51528	54	05644	18326
299	8-	61648	22368	5-	22647	22367	5-	05648	20328	5-	02746	20416
292				62	22647	11368	62	61445	18368	57	05654	16367
310												
614	57	62654	18368	57	05664	20428	52	05636	53328	52	05646	20328

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
388				5-	21528	51558	5-	05638	55568	52	64624	51568
334	--	53537	26258							--	64637	24468
340	5-	22934	18468	5-	02858	51528	5-	02868	16428	57	02846	18425
136	57	02854	19428	03	02890	22328	07	01890	20465	57	02834	18427
336	52	22756	20468	62	02646	20528				52	22644	20568
350	57	61863	21368	56	02753	53465	57	02847	18428	53	02845	18427
368	52	22844	20288	52	25855	20328	5-	25744	53388	53	02845	20228
370	7-	62844	18468	57	02853	53468	57	02757	57458	5-	51308	53428
390	57	02764	20328	59	02763	20327	57	02763	20227	53	05542	18327
382	57	61854	21368	57	02864	21427	5-	02848	20328	57	02846	18257
438	84	02754	22415	54	01863	23414	13	01762	22314	54	01763	21814
430	8-	02844	18317	47	02854	18417	53	02754	20225	53	02766	18227
409	5-	02856	21526	5-	21738	18468	02	52518	51468	5-	52628	51458

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. f = Force of wind—See Introduction.
DD = Direction of wind (8 = E. 16 = S. 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 15th July
Day 7h–18h Kew and Croydon, 9h–18h Kensington
9h–21h other stations except for rainfall which is 9h–18h

Stations	Weather. Morning	Weather. Afternoon	Weather. Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew ...	dbcc	cir. cpr.	dbcc	Kew 24 hours ending 7h. Mean
Croydon ...	cyc	cyc ir cy	cyc bx	—
Greenwich ...	cy	cr cy	dbcc dy	*
Camden Square	c	c	*	40·1
Kensington ...	bc	bc	*	Min. Time
Hampstead ...	bcp	bc	bc	Whole period

Stations.	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 % Yesterday	Humidity. 9h % To-day
Kew ...	64	57	51	Tr	−	1·8	*	*
Croydon ...	65	57	53	Tr	−	2·3	*	*
Greenwich ...	67	55	47	Tr	−	2·5	54	55
Westminster ...	66	58	54	−	−		67	69
Regents Park ...	67	57	54	−	−		61	65
Camden Square	67	59	53	−	−	*	*	66
Kensington ...	66	57	52	−	−		59	63
Hampstead ...	65	55	50	Tr	−		*	66

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 16th July 1943 — No. 298.21

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	14.5	-4	SW	4	c	65	75	58	8	5	2	-	9	10	1500
	Croydon ...	16.0	0	S	4	c	67	75	58	8	5	-	-	10	10	2400
	S. Farnborough	14.9	-6	SW'S	3	c/r	64	85	60	8	5	1	-	9+	10	700
	Boscombe Down	15.0	-2	SW'S	4	ido	60	97	59	6	5	-	-	10	10	800
	Thorney Island	16.3	0	SSW	4	c	65	85	59	9	5	-	-	10	10	2500
	Lympne ...	16.3	+6	SW'W	4	bc	68	65	54	8	-	-	3	0	4-6	-
	Manston ...	15.3	-6	SW'S	4	c	73	35	46	8	2	4	8	Tr	9	2000
2	Shoeburyness ...	15.4	-16	SW	4	c	75	55	55	8	-	3	-	0	3	-
	Felixstowe ...	14.6	-10	S	4	c	74	65	63	8	5	3	-	7-8	9	4000
	Gorleston ...	12.8	-10	SW	5	cq	73	55	58	7	2	3	-	4-6	9	1000
	Mildenhall ...	12.7	-2	SW	5	c	71	65	57	8	5	1	-	4-6	9+	2500
	Cranwell ...	10.0	-12	SW	6	c	69	75	61	8	5	2	-	4-6	10	2000
3	Birmingham ...	11.4	0	NSW	4	iR	62	85	57	6	6	-	-	10	10	800
	Upper Heyford	12.5	-8	SW'S	5	c	69	65	56	8	1	7	-	4-6	9+	1500
4	Ross-on-Wye	11.3	-4	W'S	4	ir	63	85	59	6	6	2	-	9+	10	1500
5	Hartland Point	12.1	+12	W	4	rr	59	97	58	7	5	2	-	7-8	9+	800
	Bristol ...	12.7	-6	SSW	5	c	68	75	58	8	1	7	-	4-6	10	4000
	Portland Bill ...	15.6	-6	SW	4	o	60	92	58	7	5	-	-	10	10	2500
	Plymouth ...	15.2	+2	SW'S	4	ifg	60	97	60	6	5	2	-	9+	10	600
	The Lizard ...	14.3	+4	SW	5	o/r	60	97	60	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	13.5	+14	SW	4	rfg	61	97	60	7	5	2	-	9	10	800
	Guernsey ...															
6	Pembroke ...	12.3	+12	WNW	3	c-bc	58	92	56	8	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	09.9	+22	WSW	3	bc	61	92	58	9	8	7	-	1	4-6	1500
	Chester (Sealand)	09.6	+14	NNW	3	c	60	85	55	7	7	7	-	4-6	9	2000
8	Manchester ...	09.7	+10	WNW	3	c/r	58	92	56	6	4	7	-	7-8	9+	2000
10	Spurn Head ...	10.0	-6	SW'S	4	ir	63	85	61	7	5	2	-	4-6	10	1500
	Catterick (Sc.)...	07.5	+2	SSW	4	c/r	59	85	55	8	5	2	-	7-8	10	1500
	Tynemouth ...	06.3	-4	W	4	c	58	85	54	7	8	-	-	9+	9+	1700
11	St. Abbs Head	04.1	0	SSW	3	rfg	60	85	56	8	5	2	-	7-8	10	2500
	Leuchars ...	03.2	-2	WSW	3	rfg	62	75	54	6	5	2	-	4-6	10	2000
12	Renfrew (Abbotsl.)	03.9	-2	SSW	3	c/d	59	85	55	7	5	2	-	7-8	10	600
	Eskdalemuir ...	04.8	+6	SW'S	4	o/r	57	85	53	7	5	-	-	10	10	1200
	Point of Ayre...	08.0	+24	W	6	bs/r	64	75	57	8	2	4	-	4-6	4-6	2500
13A	Tiree	03.5	+2	WNW	3	rr	55	97	54	6	5	2	-	4-6	10	400
13B	Stornoway ...	02.9	+10	N	5	rr	54	97	53	6	6	2	-	7-8	10	300
15	Dalwhinnie ...	01.5	-2	SW	3	o	56	75	49	7	5	-	-	10	10	2500
	Aberdeen ...	01.9	-12	S	2	c	63	75	56	7	1	1	7	1	10	1500
	Wick ...	02.6	0	SSE	3	c	60	85	56	9	8	7	-	4-6	10	2000
16	Sumburgh ...	02.5	-10	SE	3	2o	58	92	57	6	1	3	9	4-6	7-8	1500
17	Blacksod Point	11.3	+22	W'N	3	c-bc	60	75	52	8	8	4	-	4-6	7-8	2500
18	Malin Head ...	06.6	+26	NW	5	c-bc	58	85	53	8	8	-	-	7-8	7-8	1500
	Aldergrove ...	07.7	+22	SW	4	rr	57	85	54	6	6	2	-	9	10	1000
19	Birr Castle ...	10.4	+16	NSW	3	c-bc	65	65	53	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy.	12.8	+14	W'S	3	b	61	75	53	9	7	-	-	1	1	2500
	Roches Point	11.9	+14	SW	3	c-bc	59	85	54	8	3	-	-	7-8	7-8	1500

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

District	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	14.1	-6	SW'S	4	c	65	75	57	8	8	7	-	9	9+	1500	0	*
	15.4	-2	SSW	4	c/r	65	75	58	8	5	3	-	7-8	9	1000	0	*
	14.3	-2	SW'W	4	c	65	75	58	8	8	7	-	7-8	9+	800	0	*
	14.9	+2	WNW	2	dd	59	92	57	5	5	-	-	10	10	1150	1	*
	15.8	+2	SW	4	c	65	85	59	9	5	7	-	9+	10	1200	0	*
	15.8	-4	W'S	4	c-bc	67	75	57	8	1	4	9	4-6	7-8	2000	0	3
	14.6	-2	SW'W	4	c-bc	68	65	57	8	1	7	-	1	7-8	1800	0	*
2	15.2	-2	SSW	4	c-bc	67	75	58	8	1	7	-	1	7-8	2500	0	*
	13.0	+16	SW'S	4	c-bc	68	85	64	8	1	7	-	2-3	7-8	4000	0	5
	12.6	0	SW'W	5	c	71	75	61	7	8	7	-	7-8	9+	1500	0	4
	12.4	+2	WSW	4	ifo	66	75	58	6	5	7	-	9	10	1600	1	*
	10.9	0	W	3	bc	65	85	59	7	2	-	-	4-6	4-6	2000	1	*
3	12.0	+10	WNW	4	b-bc	65	55	49	8	8	4	-	2-3	2-3	4000	1	*
	12.9	+10	SW'W	3	c-bc	64	85	58	8	2	7	3	2-3	7-8	1500	1	*
4	12.6	+4	WSW	3	b-bc	66	65	53	8	8	4	2	1	2-3	3000	1	*
5	13.8	+6	W	3	c	59	97	58	8	8	4	-	7-8	9	1500	1	4
	13.9	+6	WSW	3	ifo	61	85	58	8	5	7	-	2-3	9	2500	1	*
	15.3	+2	SW	4	o	60	92	58	7	5	-	-	10	10	2500	1	4
	15.4	0	SW'S	3	rfg	60	97	60	6	5	-	-	10	10	200	1	1
	14.4	0	WSW	4	c	61	97	60	7	5	-	-	10	10	1000	1	4
	13.6	+2	SW	3	ido	61	97	60	6	5	-	-	10	10	600	1	4
6	13.9	+C	W	3	bc	59	85	55	8	1	7	1	2-3	4-6	2500	0	3
7	12.4	+12	SW	3	b-bc	60	92	57	9	8	6	-	1	2-3	3000	1	2
	11.2	+14	NW'N	4	c-bc	64	65	51	9	8	4	-	7-8	7-8	2500	1	*
8	11.4	+10	W	4	bc	64	55	49	8	2	6	-	2-3	4-6	2500	1	*
10	10.7	+14	W'S	3	2	63	85	56	6	7	-	-	4-6	4-6	2500	0	3
	08.8	+8	SW	4	c-bc	61	75	53	8	3	6	-	4-6	7-8	3000	1	*
	07.5	+6	W	5	bc/pr	64	65	50	7	2	4	1	4-6	4-6	2500	1	3
11	03.6	+6	W	5	bc	60	75	51	8	1	4	-	4-6	4-6	3500	0	4
	02.3	-2	NSW	5	c-bc	60	75	50	8	8	6	-	7-8	7-8	3500	1	*
12	06.6	+20	W	5	c	58	75	51	7	8	7	-	2-3	9+	1000	0	*
	07.1	+14	W'S	5	c-bc	56	75	48	8	5	-	-	7-8	7-8	2200	1	*
	10.6	+22	WNW	2	r	58	92	55	8	9	7	-	4-6	9+	800	1	2
13A	03.4	+22	NW	4	bc	57	75	49	9	1	3	1	2-3	4-6	2000	1	3
13B	06.8	+30	NW	4	c	56	92	54	8	8	7	-	7-8	9+	1000	1	3
15	02.0	0	NW	2	r	54	85	51	6	5	2	-	7-8	10	1500	1	*
	01.1	+2	E	1	c-bc	61	75	51	8	3	4	3	4-6	7-8	4000	0	1
	02.7	+2	-	0	rr	56	97	55	7	5	8	-	10	10	1500	1	*
16	01.4	-10	SE	3	rr	55	97	55	5	-	2	-	10	10	100	1	2
17	13.6	+10	WNW	3	b-bc	59	75	51	9	8	-	-	2-3	2-3	2500	1	3
18	10.8	+22	NW	4	bc	57	75	49	8	2	-	-	4-6	4-6	1500	2	4
	11.2	+22	WNW	1	c	57	65	44	9	8	4	-	9	9+	4000	1	*
19	12.9	+16	WNW	3	bc	65	75	57	8	2	-	-	4-6	4-6	1500	1	*
20	14.5	+10	NW	3	b	60	65	48	9	1	-	1	Tr	1	2500	1	2
	13.3	+14	WSW	2	c-bc	60	85	55	8	8	-	-	7-8	7-8	1500	1	4

PAST 24 HOURS.

District	Weather. 7h.–13h. 15th (39)	Weather. 13h.–18h. 15th (40)	Weather. 18h. 15th to 1h. 16th (41)	Weather. 1h.–7h. 16th (42)
1	c	cidoc	cdorm	iocm
	c	ccirccrs	crormcm	cmirs
	cmidorc	crdomirc	cirdsdmedmc	
	cidomc	cidomcddmdmcmcf	ycrcf-bc	
	circ	circ	c	bmddcis
3	bccbcy	bcbc	bcbcw	bcwcf
	bccy	cyc	cbccicbc	cirm
	bccy	cyc	c	cido
2	c	c	ccirc	crdcbc
	cq	cq	bcr	bcw
	ccyc	ccirmcbc	cirmcbc	bwb
	circ	crrcbc	bcb	bm
3	cpmqr	rbc	bcb	bbcz
	c	ccrcrc	cbcbcm	bcmb
4	ccrc	Rrcbc		bmwbc
5	cirrr	crrirc	crprbc	bcwb
	ido irc	m Rrcirc	crrccprcbc	bcb fcfc
	o	o	orr	o
	omododcf	circ rcrcm	crrcf	cirfc
	bfrrc	cprcc	cod	offc
	cirrcrc	crcrc ido	offcc	c
6	rr mqc	cbc	bcw	cfcw
7	crrcrcc	bcprcb	bw	bwfg
	cRRirc	cbc,c	cprcb	bbc
8	circ rRR	cbcmc	bcymw	bcmmw
10	cir	cbcm	bc	b
	circ	cv	b	bbc
	cpoimc	cbcp	bc	bc
11	cpcrc	cfr cbc	bccidcbc	bc
	crrcmcirc mcrcmcpcc	idrrb	bbc br	
12	cmccmdodc	bccmprcmprcbcc		
	cprcir	circ	cprcc	cbc
	rrc	bccirc	cirod	b
13A	odocdrrmcrcrcmcc	cbc	bc	
13B	crcrcrrmc	crr moc	cbc	bcc
15	cocc	circ		circ
	crcrcc	czcc	cRR	cbc
	ctlrcrcrr	crcrmc	crcrmc	
16	crocdcc	cmcrcr	cmcrcc	crcrcc
17	bc	bc	b	bc
18	pr	bc	bc	bc
	cprcrr	crrcprc	cbccbcbcw	bwfgbw
19	c	bc		bc
20	pr	b	b	bc
	bc	pr	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 16th July 1943

Districts	
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands 5 S.W. England South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light variable winds; fine with but small amounts of cloud in most districts; a few fog patches around dawn; warm by day; moderate night temperature.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate or fresh northwest winds, becoming variable light; fair at first, with variable amounts of cloud becoming mainly fine. A few fog patches around dawn. Rather warm by day; moderate
16 Orkneys and Shetlands	night temperature.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light southerly winds; fine apart from risk of rain in southwest tomorrow; a few fog patches around dawn. Warm by day; moderate night temperature.

GENERAL INFERENCE

A ridge of high pressore covering the British Isles is moving slowly east and intensifying. Weather will be fine and warm generally apart from a risk of slight rain in Southwest Ireland tomorrow.

FURTHER OUTLOOK

Rain in extreme West and Southwest. Fine and warm elsewhere

Forecasts issued at 1030.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday 16th July 1943.

10° 5°W. 0° 5°E. 10°

80°

55°

50°

LOW

LOW

HIGH

1004

1006

1008

1010

1012

1014

1016

1018

STATION MODEL

High Cloud

Medium cloud

Low cloud

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs:

Weather in past hour

Past weather

Temperature °F.

Present weather

Visibility

Dew Point °F

Amount of Low cloud

Height of Low cloud

Scale 1.: 5,000,000

Mb In.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Friday 16th July,

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 16th July 1943

No. 2982

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	60	*	*	*	*	*	*	*	*	*
	Croydon ...	230	17·4	+6	SSW	1	ir_0	61	92	60	6	5	2	-	7-8	10	700
	S. Farnborough	226	16·9	+10	WNW	1	d_0d_0	61	97	60	6	5	-	-	10	10	600
	Boscombe Down	417	17·2	+10	-	0	of+	59	97	58	3	-	-	-	10	10	<150
	Thorney Island	10	17·0	+4	W	1	c	62	97	60	6	5	-	-	10	10	2500
	Lympne ..	283	17·4	+2	WNW	2	c-bc	57	97	57	7	-	3	-	0	7-8	-
	Manston ...	154	16·3	+6	-	0	c	58	97	57	7	5	3	-	2-3	9	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	16·0	+10	WSW	2	c	61	85	57	8	5	-	-	9+	9+	4000
	Gorleston ...	5	16·6	+8	W'N	2	bc	61	85	57	7	8	4	-	4-6	4-6	1000
	Mildenhall ...	15	16·0	+14	WSW	2	Z_0	57	92	55	6	5	7	-	2-3	4-6	4000
	Cranwell ...	203	15·8	+14	SSE	3	b	53	92	51	7	-	4	1	0	Tr	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	16·6	+14	WNW	2	bc	55	92	54	7	5	7	-	2-3	4-6	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·8	+10	NNE	1	bc	56	97	56	8	1	4	-	2-3	4-6	1500
	Bristol	209	17·2	+6	-	0	bc	58	92	56	7	5	3	-	2-3	4-6	2500
	Portland Bill ...	32	16·8	+6	SW	3	++	59	92	57	7	5	-	-	10	10	2500
	Plymouth ...	86	16·6	+4	-	0	of	60	97	60	3	5	-	-	10	10	<150
	The Lizard ...	240	16·3	+12	-	0	of	59	97	59	3	5	-	-	10	10	200
	Scilly (St. Mary's)	163	17·4	+18	N'W	3	c	57	97	56	8	5	-	-	10	10	1000
	Guernsey ...	175															
6	Pembroke ...	142	17·5	+12	NW	1	b-bc	56	92	54	8	1	4	1	2-3	2-3	4000
7	Holyhead (Valley)	32	17·0	+16	-	0	b	52	97	52	8	-	-	-	0	0	-
	Chester (Sealand)	16	16·0	+24	-	0	b	51	85	48	8	5	-	-	Tr	Tr	3000
8	Manchester ...	230	16·1	+18	SW	2	Z_0	49	92	47	5	2	6	-	1	2-3	2500
10	Spurn Head ...	29	14·6	+16	W'S	4	b-bc	56	85	51	7	7	-	-	2-3	2-3	4000
	Catterick (Sc)...	192	14·2	+18	W	2	b	50	75	44	8	-	4	-	0	Tr	-
	Tynemouth ...	108	14·8	+10	W	6	b-bc	53	75	45	7	2	-	-	2-3	2-3	2500
11	St. Abbs Head	280	08·9	+38	W	6	bc	54	85	48	7	1	4	-	4-6	4-6	2500
	Leuchars ...	36	10·5	+28	SSW	3	b	51	85	46	9	5	7	-	Tr	1	4000
12	Renfrew (Abbotsl.)	19	13·1	+20	WSW	3	pr	53	85	49	6	8	-	-	9+	9+	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	15·5	+20	NNW	4	b	55	75	47	8	5	-	-	Tr	Tr	2000
13A	Tiree	44	14·6	+22	NW	3	bc	53	92	51	9	8	3	-	2-3	4-6	2000
13B	Stornoway ...	12	12·9	+24	WNW	3	bc	48	92	45	8	8	6	-	4-6	4-6	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	07·7	+22	NW	4	c	53	85	47	8	5	7	-	7-8	9	1500
	Wick ...	114	05·8	+18	NNW	6	r_0r_0	52	92	50	6	5	-	-	10	10	300
16	Sumburgh ..	19	00·9	0	N	4	r_0r_0	53	97	52	6	5	2	-	9	10	1000
17	Blacksod Point	18	17·0	+10	-	0	b-bc	48	97	47	9	1	-	-	2-3	2-3	4000
18	Malin Head ...	84	15·4	+18	NW'ly	2	c-bc	53	85	47	8	2	6	-	4-6	7-8	1500
	Aldergrove ...	268	16·6	+16	W	1	b	48	92	47	9	5	-	-	Tr	Tr	4000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	17·6	+8	NE	1	b-bc	48	97	47	9	5	-	4	1	2-3	2500
	Roches Point	22	17·3	+14	N	2	b-bc	54	97	53	8	5	-	-	2-3	2-3	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12. (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	19·5	+20	N'E	2	Z_0	61	85	55	6	5	3	4	7-8	9	4000	1	*
	Croydon ...	20·3	+22	-	0	Z_0	61	92	58	5	5	7	-	4-6	10	5000	1	*
	S. Farnborough	19·7	+18	NE'N	1	c	61	92	58	7	7	7	1	7-8	9+	2000	1	*
	Boscombe Down	19·3	+14	-	0	bc/f	59	92	57	7	5	7	2	1	4-6	1500	1	*
	Thorney Island	19·4	+16	NE'N	2	i_{d_0}	60	92	58	6	6	2	-	4-6	10	800	1	*
	Lympne ..	20·0	+22	N'E	2	id	59	92	58	4	5	2	-	9+	10	600	1	2
	Manston ...	19·2	+22	NNW	1	c	61	85	57	7	5	-	-	4-6	10	1000	0	*
2	Shoeburyness ...	19·7	+20	NW	2	c-bc	62	85	56	7	-	9	-	0	7-8	-	0	*
	Felixstowe ...	19·1	+22	NW	3	b-bc	61	85	56	8	-	7	-	0	2-3	-	0	2
	Gorleston ...	18·0	+18	NN'N	2	b-bc	59	85	53	7	-	4	-	0	2-3	-	0	3
	Mildenhall ...	19·2	+18	S'W	2	b	57	85	55	7	-	4	-	0	1	-	0	*
	Cranwell ...	18·9	+20	W'S	2	Z_0	55	92	53	6	-	4	-	0	Tr	-	1	*
3	Birmingham ...	19·6	+12	NW	3	Z_0	56	86	51	6	-	-	1	0	2-3	-	1	*
	Upper Heyford	19·4	+16	NNW	2	c-bc	56	85	52	7	-	-	6	0	7-8	-	0	*
4	Ross-on-Wye	19·6	+12	SW'W	1	b	52	92	50	8	-	-	1	0	1	-	1	*
5	Hartland Point	18·8	+14	NNE	1	b-bc	59	92	56	8	1	4	-	1	2-3	2000	1	3
	Bristol	20·1	+18	-	0	bc/f	56	97	56	6	5	-	1	2-3	2-3	4150	1	*
	Portland Bill ...	18·1	+12	NE	3	0	60	92	58	7	5	-	-	10	10	2500	1	4
	Plymouth ...	19·1	+18	-	0	C	59	97	58	7	6	-	5	7-8	9	3000	1	1
	The Lizard ...	18·4	+12	-	0	c-bc	58	97	58	8	5	-	-	7-8	7-8	1500	1	1
	Scilly (St. Mary's)	19·5	+10	-	0	c-bc	58	85	54	8	5	-	-	7-8	7-8	1200	1	2
	Guernsey ...																	
6	Pembroke ...	19·5	+12	-	0	if	55	89	55	4	-	4	-	0	2-3	-	0	2
7	Holyhead (Valley)	19·7	+14	-	0	bc	56	86	53	8	1	-	2	Tr	4-6	2500	1	1
	Chester (Sealand)	19·3	+18	-	0	b-bc	58	76	50	8	1	-	5	Tr	2-3	3500	0	*
8	Manchester ...	19·0	+14	W	2	Z_0	55	86	51	6	2	-	-	1	1	2500	1	*
10	Spurn Head ...	17·8	+22	WNW	4	b	56	75	40	7	-	-	-	0	0	-	0	3
	Catterick (Sc)...	17·4	+18	NNE	1	b-bc	56	76	48	8	1	-	-	2-3	2-3	4000	0	*
	Tynemouth ...	16·6	+22	W	5	b-bc	56	75	48	7	-	4	-	0	2-3	-	0	3
11	St. Abbs Head	13·1	+18	WNW	5	b-bc	54	75	48	8	1	4	-	1	2-3	4000	0	4
	Leuchars ...	14·6	+22	W	4	b	56	92	54	9	5	-	-	1	1	4000	0	*
12	Renfrew (Abbotsl.)	17·4	+26	W'S	3	bc	55	85	49	8	8	4	9	2-3	4-6	2000	1	*
	Eskdalemuir ...	17·4	+26	W	3	b-bc	54	75	45	8	5	-	-	2-3	2-3	2100	0	*
	Point of Ayre...	19·1	+26	W'N	2	b-bc	56	85	52	8	4	-	1	1	2-3	2500	0	2
13A	Tiree	17·7	+18	W	2	c	56	85	53	9	2	3	-	2-3	9+	2000	0	3
13B	Stornoway ...	16·1	+14	NW	3	pr	56	76	48	8	8	-	-	9+	9+	2500	0	2
15	Dalwhinnie ...	15·0	+20	WNW	3	c	50	75	40	8	5	-	-	9+	9+	2500	1	*
	Aberdeen † ...	12·3	+22	NW	5	bc	55	66	42	8	5	3	1	Tr	4-6	4000	1	3
	Wick ...	12·2	+40	NNW	5	r_0r_0	52	97	52	6	5	-	-	10	10	200	1	*
16	Sumburgh ..	07·4	+40	NNW	4	c	54	97	52	8	5	7	-	9+	9+	800	1	3
17	Blacksod Point	17·9	+8	S'E	1	c-bc	57	85	52	9	5	4	5	2-3	7-8	4000	1	2
18	Malin Head ...	17·9	+16	NW	2	c-bc	57	85	52	8	2	-	-	7-8	7-8	1500	2	2
	Aldergrove ...	18·2	+14	WSW	1	c-bc	52	92	50	9	5	-	4	4-6	7-8	2000	1	*
19	Birr Castle ...	19·1	+6	ENE	1	bc	52	92	50	8	5	-	1	4-6	4-6	2500	0	*
20	Valentia Obsy.	18·1	+2	SSE	1	c	56	92	54	9	5	-	-	9+	9+	4000	1	1
	Roches Point	18·0	+10	N	1	b-bc	55	97	54	8	5	-	5	1	2-3	2500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 15th Hrs. (38)
1	London (Kew)	65	59	56	Tr	5	0·6
	Croydon ...	68	60	57	Tr	2	2·7
	S. Farnborough	66	59	58	Tr	1	1·2
	Boscombe Down	61	55	56	2	7	0·0
	Thorney Island	68	59	45	Tr	3	*
	Lympne ..	69	52	52	-	0·1	10·6
	Manston ...	74	57	54	-	Tr	8·1
2	Shoeburyness ...	76	59	57	-	Tr	7·1
	Felixstowe ...	76	58	56	-	Tr	7·0
	Gorleston ...	75	54	47	-	-	5·9
	Mildenhall ...	71	49	40	Tr	1	3·9
	Cranwell ...	71	49	47	1	-	2·9
3	Birmingham ...	66	50	39	6	-	3·8
	Upper Heyford	69	49	40	1	-	*
4	Ross-on-Wye	68	46	41	12	-	3·8
5	Hartland Point	62	55	50	6	Tr	0·9
	Bristol	69	51	41	4	0·1	0·5
	Portland Bill ...	61	56	*	-	5	*
	Plymouth ...	61	57	57	1	6	0·0
	The Lizard ...	61	56	*	0·1	2	0·0
	Scilly (St. Mary's)	62	56	*	6	0·1	0·0
	Guernsey ...						
6	Pembroke ...	61	51	*	13	Tr	7·1
7	Holyhead (Valley)	63	48	34	5	-	*
	Chester (Sealand)	66	46	35	8	Tr	3·8
8	Manchester ...	65	48	40	6	-	*
10	Spurn Head ...	70	53	*	0·5	-	4·5
	Catterick (Sc)...	64	47	40	5	-	3·1
	Tynemouth ...	65	51	47	6	-	*
11	St. Abbs Head	65	50	*	1	-	*
	Leuchars ...	64	48	43	0·2	1	1·3
12	Renfrew (Abbotsl.)	60	50	43	-	0·2	1·4
	Eskdalemuir ...	58	48	42	0·6	Tr	2·5
	Point of Ayre...	65	51	*	3	Tr	3·5
13A	Tiree	57	47	41	5	-	1·8
13B	Stornoway ...	56	46	41	17	-	1·3
15	Dalwhinnie ...	59	47	43	3	1	0·2
	Aberdeen † ...	67	52	49	1	3	0·9
	Wick ...	63	51	51	5	7	*
16	Sumburgh ..	59	53	52	4	23	0·0
17	Blacksod Point	62	59	*	-	-	*
18	Malin Head ...	60	53		0·2	-	3·1
	Aldergrove ...	60	43	36	5	2	1·4
19	Birr Castle ...	66	42	39	-	-	8·5
20	Valentia Obsy.	62	47	42	Tr	Tr	11·8
	Roches Point	61	53		0·2	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 15th July $C_L C_M$	ww VhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	ww VhN$_h$	DDFWN	01h. G.M.T. 16th July $C_L C_M$	ww VhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	ww VhN$_h$	DDFWN
109	83	02754	17325	52	22745	24328				52	02848	61668
115				52	62735	28468	52	10844	26567			
203												
206	72	02854	22147	52	02855	59598	8-	02856	24466	50	02834	24325
210	23	25864	02288	82	22755	26268	52	02856	58468	84	02864	57515
219	62	66635	30668	54-	01854	61565	5-	02967	26487			
280	5-	58528	20258				8-	02846	28386	86	02965	24226
245	52	02754	20328	8-	02757	21327	54	01853	23324	54	01951	26422
260	82	02754	22327	86	02854	53426	50	01763	20323	10	01762	20513
278	57	02855	59427	54	02843	27583	50	01852	24312	80	01843	25403
279	57	02855	20467	83	02854	24585	54	01852	24312	84	01854	24414
285	62	22744	22568							23	02744	04614
288	52	22644	20568	8-	81955	54525	40	01852	22212	10	01853	23313
575	23	25745	26386	26	03864	26425	23	01843	10213	50	01851	00013
301	5-	02847	24428	36	01954	22524	24	01851	26312	14	01851	26202
321	62	64635	51468	10	01753	24463	04	05590	22101	10	05690	26100
290	5-	64648	20468				40	00762	24302	40	01761	24301
282	51	22844	21568	26	01953	23514	40	01751	23321	50	01951	20301
310	--	62628	20468							--	01633	24213
614	52	62645	20468	26	01753	24424	04	05690	26101	04	05590	26101

III	13h. G.M.T. 15th July $C_L C_M$	ww VhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	ww VhN$_h$	DDFWN	01h. G.M.T. 16th July $C_L C_M$	ww VhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	ww VhN$_h$	DDFWN
388	26	02854	22365	46	25843	20485	04	01894	2501	10	01841	00004
334	--	25646	26287							--	05672	26103
340	72	22854	20468	88	02962	24486	00	01990	14111	50	09944	24103
136	2-	02954	19528	5-	22847	20387	54	05662	20113	14	01781	23402
336	57	22744	20468							50	01733	24313
850	53	02855	20527	27	02853	19266	46	05664	20224	04	01790	26113
368	62	64635	24368	5-	02856	24366	00	00890	00000	00	01890	00043
379	57	61845	53567	56	02843	22466	03	01890	22113	07	01890	30314
390	5-	05646	18428	57	02745	51457	57	02663	18127	57	05661	32114
382	57	02843	18428	57	63843	22366	56	00066	*	57	05631	03144
438	54	01763	22314	53	01763	22414	5-	03538	22428	--	67009	22359
430	52	02846	51428	53	02746	20427	5-	02748	20228	5-	52528	00068
409	5-	62528	21568	5-	62408	27168	--	57209	01249	50	01843	02243

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
VhV = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 16th July

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	c	$ci\ d_0c$	$cd_0\ b_Cm_0$	Kew, 24 hours ending 7h. Time 0·1 5/7hrs 16th
Croydon ...	c	$cci\ r_0ccr_0$	$cr_0\ ir_0$	
Greenwich ...	cy	$ci\ r_0$	irrecy	
Camden Square	c	c	*	
Kensington ...	bcc	c	*	Min. Time 0·1 rest of Period
Hampstead ...	bcp	pr	$or\ b_e$	

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	65	59	56	Tr	5	0·6	*	*
Croydon ...	68	60	57	Tr	2	2·7	*	*
Greenwich ...	73	58	56	Tr	4·3	2·8	69	55
Westminster ...	70	58	57	2·5	*	8?	66	
Regents Park ...	69	58	57	-	2·5	*	83	59
Camden Square	70	59	55	-	3·1	*	*	65
Kensington ...	68	59	56	-	2·4	*	69	63
Hampstead ...	67	56	54	1·6	1·2	*	*	89

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 17th July 1943

No 23822

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	20·3	0	NNW	1	2c	71	55	54	6	8	3	–	4-6	7-8	4000
	Croydon ...	21·0	0	SE	2	2c	73	55	57	6	1	3	–	4-6	7-8	3000
	S. Farnborough	20·2	–4	SE'S	2	bc	74	45	53	8	2	6	–	4-6	4-6	4000
	Boscombe Down	20·1	+2	E	1	bc	72	45	51	8	1	–	4	4-6	4-6	2500
	Thorney Island	20·7	+4	E'S	2	c	65	85	61	7	6	2	–	7-8	10	1000
	Lympne ...	21·7	+6	SSE	1	c/d	63	85	60	6	5	7	–	7-8	9+	1000
	Manston ...	21·1	+8	SE'S	2	c	65	75	56	7	2	7	–	2-3	9	3500
2	Shoeburyness ...	21·0	0	ESE	3	bc	68	65	58	7	2	3	1	1	4-6	2500
	[illegible]xstowe ...	20·7	+6	SW	4	c	63	75	62	8	1	–	7	2-3	9+	4000
	Gorleston ...	20·3	+14	NE	4	bc	68	55	50	7	–	–	4	0	4-6	–
	Mildenhall ...	20·5	+2	W	2	c-bc	71	45	49	8	1	–	6	Tr	7-8	4000
	Cranwell ...	19·9	0	WSW	2	bc	71	55	53	7	1	–	2	2-3	4-6	3000
3	Birmingham ...	20·7	0	NNW	3	bjp	68	45	48	8	–	–	1	0	1	–
	Upper Heyford	20·6	+2	NE	1	bc	71	45	51	9	1	–	2	Tr	4-6	4000
4	Ross-on-Wye	20·6	+4	WNW	2	b	71	45	48	8	1	–	1	1	1	4000
5	Hartland Point	20·0	+2	ENE	2	b-bc	64	85	59	8	2	–	–	2-3	2-3	2500
	Bristol ...	20·7	+2	SE	1	b-bc	71	55	58	9	1	–	1	2-3	2-3	4000
	Portland Bill ...	20·6	+12	E	3	c-bc	64	85	61	8	2	–	–	4-6	7-8	4000
	Plymouth ...	20·6	+2	SW	2	c-bc	68	75	61	8	5	4	–	4-6	7-8	3000
	The Lizard ...	20·3	+6	–	0	0	61	92	59	8	5	–	–	10	10	1500
	Scilly (St. Mary's)	20·6	+4	S	2	c	63	85	57	9	8	–	–	9+	9+	1500
	Guernsey ...															
6	Pembroke ...	21·3	+10	SSW	1	b-bcjf	62	85	57	7	1	4	1	2-3	2-3	3000
7	Holyhead (Valley)	21·5	+6	SW'W	1	b	65	65	51	9	1	–	1	Tr	1	3000
	Chester (Sealand)	20·9	+6	NNW	1	bc	66	55	49	9	1	–	1	2-3	4-6	3000
8	Manchester ...	20·5	0	NW'N	2	b	66	55	49	8	–	–	1	0	1	–
10	Spurn Head ...	20·0	+8	WNW	3	bc	67	55	52	7		4	1	2-3	4-6	2500
	Catterick (Sc) ...	19·4	+8	W	4	c-bc	65	55	54	9	7	–	1	7-8	7-8	4000
	Tynemouth ...	19·4	+8	E	3	bc	63	55	47	8	2	3	1	4-6	4-6	2700
11	St. Abbs Head	17·4	+12	WNW	3	bc	61	65	50	8	1	4	–	2-3	4-6	4500
	Leuchars ...	18·4	+18	W	4	bc	66	45	46	9	1	–	8	4-6	4-6	4000
12	Renfrew (Abbots I.)	19·7	+10	NW	2	c-bc	64	65	52	9	7	–	5	7-8	7-8	2500
	Eskdalemuir ...	19·4	+10	NW'N	4	bc	63	65	50	8	7	–	2	2-3	4-6	2500
	Point of Ayre ...	21·6	+12	NW	1	bc	59	85	53	8	7	–	1	4-6	4-6	3000
13A	Tiree	20·5	+12	W	1	c	59	75	51	9	8	3	–	4-6	9	3000
13B	Stornoway ...	19·7	+18	SSE	2	c	57	85	51	9	5	3	–	9	9+	3500
15	Dalwhinnie ...	18·0	+18	NNW	3	bc	60	65	46	8	8	–	–	4-6	4-6	2500
	Aberdeen ...	17·8	+24	NW	5	c-bc	62	55	45	8	7	–	–	4-6	7-8	4000
	Wick ...	18·2	+26	NW	4	c-bc	57	75	49	9	8	–	–	7-8	7-8	2500
16	Sumburgh ...	14·6	+32	NNW	5	bc	58	85	52	8	1	4	–	4-6	4-6	1500
17	Blacksod Point	18·6	+2	S	2	c-bc	65	55	50	9	8	3	–	4-6	7-8	2500
18	Malin Head ...	20·5	+12	NE	1	bc	58	85	53	8	1	–	7	1	4-6	1500
	Aldergrove ...	20·8	+4	–	0	bc	66	45	47	9	1	–	1	2-3	4-6	3000
19	Birr Castle ...	19·0	+2	SE	2	c-bc	69	65	56	8	4	–	–	7-8	7-8	2500
20	Valentia Obsy.	18·5	+2	S'W	4	c	65	75	57	9	8	–	–	9+	9+	4000
	Roches Point	19·9	+4	SE	3	bc	63	85	58	9	1	–	5	1	4-6	4000

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	20·0	0	SW	2	c-bc	72	65	59	7	8	3	1	4-6	7-8	4000	0	*
	Croydon ...	21·1	+2	SSE	2	b-bc	72	65	59	7	4	–	–	4-5	2-3	3000	0	*
	S. Farnborough	20·2	0	S	2	b-bc	72	65	50	8	8	–	–	2-3	2-3	4500	0	*
	Boscombe Down	20·1	0	S'E	2	b-bc	71	55	56	8	2	–	–	2-3	2-3	4000	0	*
	Thorney Island	20·8	–2	S'W	3	c	64	92	61	8	6	–	–	4-6	9	220	1	*
	Lympne ...	21·6	+2	SE	3	c	64	85	57	8	2	7	–	2-3	9	2500	0	§1
	Manston ...	20·7	–2	SSE	1	b-bc	66	75	57	7	2	3	4	Tr	2-3	3500	0	*
2	Shoeburyness ...	20·5	–2	SE	3	b-bc	70	75	60	7	2	–	3	1	2-3	2500	0	*
	[illegible]xstowe ...	20·7	+2	SW	3	b	67	92	65	8	–	–	–	0	0	–	0	2
	Gorleston ...	21·7	+10	E	2	b	63	75	55	7	–	–	4	0	1	–	0	3
	Mildenhall ...	20·6	0	NNW	2	b	73	45	50	8	–	–	1	0	Tr	–	0	*
	Cranwell ...	20·5	+2	N'W	2	b	72	45	50	7	–	–	–	0	0	–	0	*
3	Birmingham ...	20·8	0	N	3	b	70	45	48	8	1	–	1	Tr	1	4000	1	*
	Upper Heyford	20·0	0	NW	2	b	74	45	49	9	4	–	1	Tr	Tr	5700	0	*
4	Ross-on-Wye	20·0	0	E'N	2	b	73	45	50	8	1	–	1	Tr	Tr	4000	0	*
5	Hartland Point	20·0	0	WSW	2	c-bc	65	75	56	8	5	–	–	7-8	7-8	4500	0	3
	Bristol ...	20·2	–2	N	1	b	73	45	50	9	1	–	9	1	1	4000	0	*
	Portland Bill ...	21·1	+2	S	2	f	60	92	58	2	5	–	–	10	10	1150	1	4
	Plymouth ...	20·6	–2	SSW	1	b-bc	64	92	61	8	2	–	2	2-3	2-3	3000	0	1
	The Lizard ...	20·6	–4	W	2	bc	64	85	59	8	7	6	–	4-6	4-6	3500	0	3
	Scilly (St. Mary's)	20·2	–6	SSE	2	c	61	85	57	9	8	6	–	9+	9+	1200	0	2
	Guernsey ...																	
6	Pembroke ...	20·2	–4	NW	1	b-bcjf	65	75	57	7	1	4	1	1	2-3	3000	0	2
7	Holyhead (Valley)	21·4	–2	NE'E	2	b	64	75	55	9	–	1	0	Tr	–		0	2
	Chester (Sealand)	21·0	+2	N	1	b	67	55	48	8	–	6	1	0	1	–	0	*
8	Manchester ...	21·1	+2	NW'N	2	b	68	45	45	9	–	–	1	0	1	–	0	*
10	Spurn Head ...	21·5	+6	SE'E	3	bc	60	75	52	8	1	4	1	2-3	4-6	2500	0	1
	Catterick (Sc) ...	20·4	+2	N	2	c-bc	69	55	51	9	1	–	6	4-6	7-8	4000	0	*
	Tynemouth ...	21·5	+8	SE	3	c-bc	61	65	47	7	2	3	2	2-3	7-8	2800	0	2
11	St. Abbs Head	19·8	+10	NNE	1	c-bc	63	75	55	8	1	4	–	4-6	7-8	4500	0	2
	Leuchars ...	20·2	+10	ESE	3	c	67	55	49	9	4	3	8	4-6	9	4000	0	*
12	Renfrew (Abbots I.)	20·9	+8	WNW	2	c-bc	66	65	53	9	1	–	6	2-3	7-8	2500	0	*
	Eskdalemuir ...	20·5	+6	WNW	2	bc	66	55	50	8	7	4	1	1	4-6	2500	0	*
	Point of Ayre ...	21·7	0	SSE	2	b-bc	61	65	50	8	1	–	4	Tr	2-3	4000	0	2
13A	Tiree	21·8	+4	SSE	1	c-bc	60	65	48	9	1	–	9	Tr	7-8	3500	0	1
13B	Stornoway ...	22·3	+16	–	0	c	58	85	51	9	5	–	–	9+	9+	4500	0	1
15	Dalwhinnie ...	21·0	+10	W	2	c	62	55	48	8	4	–	2	7-8	9+	2500	0	*
	Aberdeen ...	20·8	+10	NNW	3	b	62	55	47	8	4	–	5	Tr	1	4000	0	*
	Wick ...	21·8	+18	NW	3	bc	57	75	50	9	2	–	2	4-6	4-6	3000	0	*
16	Sumburgh ...	19·2	+28	NW'N	4	b	57	85	52	9	4	4	–	Tr	Tr	1500	0	3
17	Blacksod Point	18·0	–6	S	1	b-bc	67	55	50	9	2	–	–	2-3	2-3	4000	0	1
18	Malin Head ...	20·4	–2	E'S	4	b-bc	57	75	49	8	1	–	–	2-3	2-3	2500	1	2
	Aldergrove ...	20·8	–2	ENE	1	bc	66	65	54	9	1	–	8	2-3	4-6	3000	0	*
19	Birr Castle ...	18·9	+2	SE	2	c-bc	68	65	55	8	1	–	–	2-3	7-8	2500	0	*
20	Valentia Obsy.	17·7	–10	SSE	4	c	63	75	55	9	8	–	–	9+	9+	2500	1	3
	Roches Point	19·6	–2	S	2	c-bc	61	85	56	9	5	–	–	7-8	7-8	2500	1	3

PAST 24 HOURS.

Weather 7h.–13h. 16th (39)	Weather 13h.–18h. 16th (40)	Weather 18h. 16th to 1h. 17th (41)	Weather 1h.–7h. 17th (42)
cbccZo	bczcbc	bcbw	bbcbw
c2obcZoy	bczaybay	bmobmo	bmobc
cpcy	bcbcybc	bcbbcf	bFfcbcmo
bcy	bcy	bcbfgoF	oF
cidoc	cdodc	cemidof	cidofcmo
cidoFm	cmoc	cbcw	bcwcb
cidoc	cbc	bcbw	bmowb
c	bc	bcb	bw
cbcc	cbcby	bbw	bwb
bcy	bc	bcb	bczbc
bcy	cybcyby	bybbmo	bmowtgmo
bbcy	bcby	byb	bmowbtgwb
bcb	b		bf
bcy	bcyby	bybczbzbmo oF	
bcbvbcy	bvy	bbc	bwbcmo
bbc	c	cb	bncfo
bcbbcvy	bbcbvy	brbfgw	bmwofcomo
c	cboff	off	offo
c	bcb	bcb,off	cmofdodo
co	ocbc	bcw	cido
c	c	c	c
bc	bc	bcb	bcFec
bcb	b	bccfg	cfg bcc
bcby	bc, by	bybcb	bcbm
bmobcy	by	byzo	bmow
bc	bc	bc	bc
bcy	bcy	cybcmo	bcmo
cbc	bc	bc	bcmo
bbc	bc	bc	bczo
bcbvbvy	bcyucy	cycev	bcwmob
cbcc	cbcc	dbcw	bcwbcfgmo
bc	bcy	bcybc	bcbw
cb	bv	bcbvw	b
cbcc	c	cbcw	bcw
cproc	c	cbc	bccwbcw
cbc	bccy		cb
bcy	bcyby	by bw	bwbc
c	bc W	bbccv	oFfcmoc
bc	b	b	bbccw
bc	b-bc	b	bc
bc	b-bc	bc	b
bcwbccy	cybcybc	bbw	bw
c	c		b
bc	c	bc	bc
bc	bc	r	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 17th July, 1943.

Districts	Forecast
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands	Moderate easterly winds; mainly fine; patches of fog and low cloud around dawn, chiefly around hills; warm by day; moderate night temperature.
5 S.W. England 6 [illegible]ch Wales	Moderate to fresh easterly winds; fair at first, thundery rain tonight and tomorrow with much hill fog; rather cool, with moderate night temperature.
7 North Wales 8 N.W. England 9 N. Midlands ...	Light or moderate easterly winds; fine; warm by day; moderate night temperature.
10 N.E. England 11 S.E. Scotland	Light easterly winds; fine at first; rather general low cloud and fog developing tonight, clearing later; rather warm by day; moderate night temperature.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid. Scotland	As 7-9.
15 N.E. Scotland	As 10-11.
16 Orkneys and Shetlands	Light variable winds; fine; rather warm.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland	Moderate easterly winds; fine; warm by day; moderate night temperature.
20 S.W. Ireland	As 5-6.

GENERAL INFERENCE

An anticyclone centred over Northeast Scotland is moving slowly east, and a depression southwest of Ireland will move east and later northeast. Weather will be generally fine and rather warm today; thundery rain will spread across southwestern districts later, and rather general low cloud and fog will spread across eastern coastal districts during the night.

FURTHER OUTLOOK

Thundery rain spreading to most districts of England, Wales and Ireland. Mainly fair in Scotland.

Forecasts issued at 10.30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday 17th July 1943.

HIGH

LOW

LOW

1018

1020

1022

1016

1014

1012

1018

10°

5°W.

0°

5°E

60°

55°

50°

Mb

1050

1040

1030

1020

1010

1000

990

980

970

960

950

940

930

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Scale 1.: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

Ks 520/4503 We 803. 3 v 545 Gp 340/2 7440 7/43

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Saturday 17th July,

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 17th July 1943

No. 29822

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	59	*	*	*	*	*	*	*	*	*
	Croydon ...	230	22·8	+6	S	1	m	56	92	55	4	–	–	–	0	6-	–
	S. Farnborough	226	22·1	+6	–	0	fg	57	97	56	6	–	3	2	0	4-6	–
	Boscombe Down	417	21·5	0	E'S	1	f	59	97	59	1	–	–	–	10	10	<150
	Thorney Island	10	21·4	-2	NE'E	1	f/d	59	97	59	3	–	–	–	10	10	<150
	Lympne ...	283	22·6	+2	E'N	3	bc	58	92	56	8	–	3	–	0	4-6	–
	Manston ...	154	22·7	+6	E'S	1	b	58	92	56	7	–	3	–	0	1	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	23·1	+4	S'E	3	b	60	85	55	8	–	–	–	0	0	–
	Gorleston ...	5	22·7	+2	SSE	1	b	59	85	59	7	–	–	–	0	0	–
	Mildenhall ...	15	22·8	+6	ESE	3	z_o	54	92	52	6	–	–	–	0	0	–
	Cranwell ...	203	23·1	+2	E	1	b	51	97	51	8	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·8	+6	NE	2	z_o	56	75	48	6	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·8	-4	ESE	2	b	60	75	51	8	1	–	–	Tr	Tr	4000
	Bristol ...	209	21·6	+2	–	0	fg	57	97	56	6	–	–	–	0	0	–
	Portland Bill ...	32	21·5	+4	NE	2	f	57	92	55	2	–	–	–	10	10	<150
	Plymouth ...	86	21·2	-4	E'S	2	o/f	58	97	58	5	5	–	–	10	10	200
	The Lizard ...	240	20·7	0	SE	2	bc	55	97	55	8	4	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	20·1	+2	SE'S	2	c	57	85	52	8	5	–	–	9	9	1500
	Guernsey ...	175															
6	Pembroke ...	142	20·5	0	–	0	b	58	92	55	8	–	4	–	0	1	–
7	Holyhead (Valley)	32	21·4	0	ENE	2	f_s	53	92	51	8	–	4	6	0	9	–
	Chester (Sealand)	16	22·0	0	–	0	b	49	92	47	6	–	–	1	0	Tr	–
8	Manchester ...	230	22·4	+2	E'N	2	z_o	47	92	46	6	–	–	1	0	Tr	–
10	Spurn Head ...	29	23·2	+4	SE	2	b-bc	56	92	53	7	7	3	–	1	2-3	2500
	Catterick (Sc) ...	192	23·3	+8	WNW	1	z_o	48	92	46	5	–	–	5	0	4-6	–
	Tynemouth ...	108	24·3	+8	–	0	b-bc	55	85	51	7	–	4	1	0	2-3	–
11	St. Abbs Head	280	22·7	0	SSE	1	bc	55	85	51	8	5	–	–	4-6	4-6	4000
	Leuchars ...	36	24·0	+10	–	0	bc	53	85	49	9	–	4	8	0	4-6	–
12	Renfrew (Abbotsl.)	19	22·7	+6	–	0	bc	47	92	47	8	–	4	1	0	4-6	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	22·4	0	SE'S	1	b	52	97	52	8	–	–	1	0	1	–
13A	Tiree	44	22·4	+4	ESE	1	b	52	97	51	9	–	4	4	0	1	–
13B	Stornoway ...	12	23·3	+10	–	0	bc	48	97	47	8	5	4	2	Tr	4-6	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	24·3	+10	SW	2	bc	49	92	47	8	–	–	8	0	4-6	–
	Wick ...	114	24·2	+10	NW	1	cF+	45	97	45	1	–	–	2	0	7-8	–
16	Sumburgh ..	19	22·9	+14	NNW	3	b-bc	50	97	50	9	5	–	2	1	2-3	900
17	Blacksod Point	18	19·7	+2	–	0	b-bc	51	97	51	9	2	–	–	2-3	2-3	4000
18	Malin Head ...	84	20·3	+2	SE'S	1	c-bc	57	75	49	8	4	7	–	1	7-8	2500
	Aldergrove ...	268	22·4	+2	ESE	1	b	49	85	45	8	–	–	–	0	0	–
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	17·2	-6	E'S	4	b-bc	57	85	53	9	7	–	–	2-3	2-3	2500
	Roches Point	22	19·2	-4	E	3	c-bc	58	92	56	9	5	–	–	7-8	7-8	1500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
22·3	+2	E	3	b-bc	63	75	53	7	5	–	–	2-3	2-3	4000	0	*
22·6	+2	ESE	2	b-bc	65	65	53	7	5	–	–	2-3	2-3	5000	0	*
22·1	+4	E'S	1	z_o	58	85	54	6	8	7	–	4-6	4-6	3000	1	*
21·4	+2	ESE	2	m/F	58	97	58	4	5	–	–	9+	9+	<150	0	*
21·1	0	E	2	z_o	62	85	59	6	8	–	–	7-8	7-8	2500	0	*
22·6	+2	E	3	b	63	65	50	8	–	–	–	0	0	–	0	*
22·2	-2	E'S	1	b	64	65	53	8	–	–	–	0	0	–	0	*
22·7	+2	SE'E	2	b	65	75	56	7	–	–	–	0	0	–	0	*
23·1	+2	SE	1	b	63	85	60	8	–	–	–	0	0	–	0	1
23·1	+6	N'E	2	b-bc	60	75	53	7	–	7	–	0	2-3	–	0	2
23·1	+2	SE	2	b	60	85	55	7	–	4	–	0	Tr	–	0	*
23·6	+6	E	1	z_o	55	97	54	5	–	–	2	0	Tr	–	0	*
22·3	+2	E	2	bf	54	85	50	3	–	–	–	0	0	–	1	*
22·1	+2	E	1	m/f	55	97	55	4	5	–	–	9	9	200	0	*
21·3	0	SW	1	z_o	56	85	52	6	5	–	–	9+	9+	2000	0	*
18·3	-4	ESE	2	c	58	97	57	7	5	2	–	7-8	10	1200	0	2
21·3	+2	E	3	c	59	97	58	6	5	–	–	9+	9+	500	1	*
20·1	-6	E	3	c	59	92	57	7	5	–	–	10	10	2500	1	3
20·4	-2	SE	2	c	60	92	58	7	7	4	–	7-8	9	1500	1	1
18·1	-12	SE	3	id_o	57	97	57	8	5	–	–	10	10	1000	0	3
17·1	-18	ESE	3	c	60	85	55	8	5	–	–	9+	9+	1200	0	3
19·4	-4	SE'S	4	c	57	97	57	7	5	–	–	10	10	1500	0	2
20·7	+2	ENE	1	b	64	75	57	7	1	–	–	Tr	Tr	3500	0	*
21·9	-2	–	0	m	54	85	49	4	–	–	–	0	0	–	0	*
22·0	-2	E	1	z_o	57	85	54	6	–	–	1	0	Tr	–	0	*
23·7	0	ENE	2	b-bc	60	75	50	8	7	3	–	1	2-3	2500	0	1
24·4	+2	–	0	z_o	54	85	43	6	–	3	–	0	2-3	–	0	*
24·9	+4	NNW	2	z_o	56	85	50	6	–	4	1	0	2-3	–	0	
23·4	0	N	2	b	54	85	49	7	–	3	–	0	Tr	–	1	*
23·0	0	SSE	3	b	58	92	56	8	–	–	–	0	0	–	0	2
22·8	+4	–	0	b	58	85	55	9	–	–	–	0	0	–	1	1
23·2	-2	–	0	bc	55	92	53	9	–	–	5	0	4-6	–	0	1
24·0	0	S	3	b	54	85	50	8	7	–	5	Tr	1	1500	1	*
24·7	+6	N	1	bc	52	92	49	6	5	–	5	4-6	4-6	1500	0	1
24·6	+4	SSW	1	c	49	97	49	8	5	–	–	9+	9+	1500	1	*
24·0	+6	NW	3	c-bc	52	85	49	8	5	–	6	Tr	7-8	800	1	2
18·4	-2	E	1	b-bc	58	85	53	8	8	4	–	1	2-3	2500	0	2
21·1	+2	E	2	b	58	65	46	8	4	–	–	Tr	Tr	2500	1	1
21·7	0	ENE	1	b	58	65	48	9	–	3	–	0	1	–	0	*
18·5	-4	ESE	1	b	59	75	51	8	–	–	–	0	0	–	0	*
15·3	-6	ESE	5	c	59	75	51	9	5	–	2	7-8	9	4000	1	3
17·3	-6	ESE	2	c	59	92	57	8	5	–	–	9	9	1500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 16th Hrs. (38)
1	London (Kew)	74	56	43	–	Tr	7·2
	Croydon ...	76	53	47	–	0·1	7·4
	S. Farnborough	75	54	47	–	Tr	11·2
	Boscombe Down	76	55	53	–	–	10·6
	Thorney Island	67	56	55	Tr	Tr	*
	Lympne ...	68	56	49	2	–	5·3
	Manston ...	69	56	51	Tr	–	6·7
2	Shoeburyness ...	71	57	53	–	–	9·4
	Felixstowe ...	70	54	47	–	–	*
	Gorleston ...	69	52	44	–	–	14·3
	Mildenhall ...	73	*	43	–	Tr	14·4
	Cranwell ...	73	46	38	–	–	13·6
3	Birmingham ...	72	53	42	–	–	14·3
	Upper Heyford	75	52	41	–	–	*
4	Ross-on-Wye	75	51	45	–	–	14·3
5	Hartland Point	66	56	53	–	–	10·6
	Bristol ...	76	54	44	–	–	12·5
	Portland Bill ...	64	56	*	–	0·6	*
	Plymouth ...	69	57	(55)	–	Tr	8·9
	The Lizard ...	64	57	*	–	Tr	4·1
	Scilly (St. Mary's)	64	57	*	Tr	–	0·8
	Guernsey ...						
6	Pembroke ...	68	55	*	–	–	12·6
7	Holyhead (Valley)	67	52	49	–	–	*
	Chester (Sealand)	70	47	37	–	–	14·6
8	Manchester ...	68	45	41	–	–	*
10	Spurn Head ...	69	54	*	–	–	13·8
	Catterick (Sc) ...	70	43	43	–	–	14·0
	Tynemouth ...	65	53	48	–	–	*
11	St. Abbs Head	66	52	*	–	–	*
	Leuchars ...	70	44	38	–	–	13·8
12	Renfrew (Abbotsl.)	69	43	37	–	Tr	11·6
	Eskdalemuir ...	68	44	34	–	–	12·1
	Point of Ayre ...	64	50	*	–	–	14·5
13A	Tiree	63	52	43	–	–	6·8
13B	Stornoway ...	61	45	35	Tr	–	3·0
15	Dalwhinnie ...	64	40	33	–	–	6·3
	Aberdeen † ...	65	44	35	–	–	13·3
	Wick ...	59	41	38	05	Tr	*
16	Sumburgh ..	59	48	43	–	–	10·0
17	Blacksod Point	67	49	*	–	–	*
18	Malin Head ...	59	51	*	–	–	14·1
	Aldergrove ...	68	60	40	–	0·1	13·5
19	Birr Castle ...	71	53	48	–	–	12·0
20	Valentia Obsy.	67	56	52	–	–	5·9
	Roches Point	65	58		–	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 16th July			18h. G.M.T.			01h. G.M.T. 17th July			07h. G.M.T.		
III $C_L C_M$	ww $V_V h_s N_h$	DDFWN	$C_L C_M$	ww $V_V h_s N_h$	DDFWN	$C_L C_M$	ww $V_V h_s N_h$	DDFWN	$C_L C_M$	ww $V_V h_s N_h$	DDFWN
109 2-	01754	30514	73	01844	28414	04	01890	28214	5-	02845	00025
115 54	01962	28314	54	01862	28214	54	02864	08124			
203											
206 7-	01964	32324	53	02964	32215	00	02890	28225	50	01651	00023
210 76	01964	27414	46	02963	04215	54	04831	08125	53	01841	09113
219 57	01963	25314	5-	02963	26215	04	01890	10114	50	01963	10313
280 5-	02964	20225	54	02962	22216	04	01890	08122	14	01951	00001
245 70	01963	30113	70	01962	13214	04	01790	00014	10	01851	00012
260 20	01853	24314	10	01863	24225	50	01754	00024	00	05690	16300
278 10	01842	32215	10	02851	32125	00	01890	00011	00	01890	16201
279 10	02964	22415	40	02962	22316	04	01890	12313	00	00890	06310
285 10	01855	28515							13	00861	24102
288 2-	01854	30314	40	05661	02216	00	05690	00013	00	05590	00011
575 10	01964	18214	16	01964	12125	50	01861	10111	50	01963	12113
301 10	01962	26213	00	01890	02218	04	05690	07201	00	05690	09210
321			10	01762	30213	00	02690	00010	00	05690	00013
299 24	01763	26314	14	01963	02114	04	05690	02102	04	00790	28202
292 1-	01964	26215	10	01963	29214	00	01790	00004	00	05690	00002
319 --	01642	24212							--	05642	32312
614 10	02762	26115	00	00790	00010	00	05690	04100	5-	47118	04148

13h. G.M.T. 16th July			18h. G.M.T.			01h. G.M.T. 17th July			07h. G.M.T.		
III $C_L C_M$	ww $V_V h_s N_h$	DDFWN	$C_L C_M$	ww $V_V h_s N_h$	DDFWN	$C_L C_M$	ww $V_V h_s N_h$	DDFWN	$C_L C_M$	ww $V_V h_s N_h$	DDFWN
388 10	01963	13313	20	01961	25104	04	01890	00013	03	01790	00012
334									--	05671	00002
340 14	01962	30113	10	01961	04203	00	05590	00000	00	05620	10100
136 10	02-61	22316	00	00790	02200	00	05690	10200	00	02790	16201
386 10	01764	16315	40	01762	20312				50	01742	32212
350 10	01851	25214	10	01861	26111	04	05690	03101	53	41621	07253
368 10	01853	16203	10	01852	14102	00	00690	00000	--	48209	14119
379 10	01861	24113	10	01961	04101	00	00790	28210	5-	48108	12129
390 10	01863	24114	10	01861	00012	03	47390	12102	00	00790	08200
382 10	01862	00013	40	01863	00013	00	04690	00010	20	41661	00041
438 5-	08418	04348	44	01753	14114	50	04652	24212	54	02754	04415
430 5-	02747	06258	7-	02844	14214	--	57109	14229	5-	05665	0x315
409 84	02955	17226	8-	02944	30227	--	44209	09159	5-	52615	11257

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h_s, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V_V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ See disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 17th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...				Kew 24 hours ending 7h. Max. time 16th 0·1 7-14h Min. time 0·6 Rest of Period.
Croydon ...				
Greenwich ...	cbcyzo	bczcy	bcbcy	
Camden Square	bc	c	*	
Kensington ...	bcz	bcz	*	
Hampstead ...	bc	bcm	b	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs (Yesterday)	Humidity 15h % (Yesterday)	Humidity 9h % (Today)
Kew ...							*	*
Croydon ...							*	*
Greenwich ...	76	56	43	–	–	7·8	48	47
Westminster ...	75	59	53	Tr			51	59
Regents Park ...	76	58	51	–	–		49	49
Camden Square	76	57	52	–	–	*	*	56
Kensington ...	76	57	47	–	–		64	54
Hampstead ...	77	55	50	–	–		*	49

SECRET

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THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Sunday 18th July 1943

No. 29823

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)	°F. Temp. (6)	% Humid. (7)	°F. Dew Point. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	20·4	−10	E	4	b	72	45	48	8	1	–	–	Tr	Tr	2500
	Croydon ...	20·8	−10	ENE	2	b	74	45	49	8	1	–	–	Tr	Tr	3000
	S. Farnborough	19·3	−14	ESE	3	b-bc	76	45	51	7	1	–	–	2-3	2-3	4000
	Boscombe Down	18·6	−14	E'S	3	b-bc	75	45	50	8	1	–	1	2-3	2-3	4000
	Thorney Island	19·3	−6	ESE	4	b	75	55	57	8	1	–	–	Tr	Tr	4000
	Lympne ...	20·9	−12	ENE	5	b	67	45	46	8	–	–	1	0	Tr	–
	Manston ...	21·6	−6	E'N	3	b	67	55	52	8	–	–	1	0	Tr	–
2	Shoeburyness ...	21·7	−2	E	3	b	67	65	53	8	–	–	1	0	Tr	–
	Felixstowe ...	21·9	−10	SE	4	b	68	75	58	8	1	–	–	1	1	4000
	Gorleston ...	22·2	−10	NE'N	3	b-bc	62	65	51	7	–	4	–	0	2-3	–
	Mildenhall ...	20·8	−16	NE	3	b-bc	74	35	47	8	1	–	1	2-3	2-3	4000
	Cranwell ...	21·6	−8	E	3	b-bc	71	55	55	8	1	–	1	2-3	2-3	3500
3	Birmingham ...	20·0	−10	SE	4	bc	74	45	52	8	1	–	–	4-6	4-6	4000
	Upper Heyford	19·6	−14	E'N	3	bc	74	45	53	7	1	–	–	4-6	4-6	3500
4	Ross-on-Wye	18·5	−14	E	3	bc	75	55	56	8	7	–	–	4-6	4-6	3500
5	Hartland Point	16·1	−16	ENE	4	bc	67	75	59	8	1	–	3	2-3	4-6	1500
	Bristol ...	18·6	−14	ESE	3	bc	75	55	59	8	2	–	–	4-6	4-6	2500
	Portland Bill ...	18·3	−12	E	4	bc	63	65	60	8	2	–	–	4-6	4-6	4000
	Plymouth ...	17·5	−14	ENE	3	c-bc	65	75	58	9	–	–	5	4-6	7-8	1200
	The Lizard ...	15·7	−12	E	5	c	60	92	58	7	5	–	–	10	10	1000
	Scilly (St. Mary's)	14·6	−10	ESE	5	2o	60	92	58	6	5	–	–	10	10	600
	Guernsey ...															
6	Pembroke ...	17·1	−10	ESE	4	c	64	85	58	7	8	–	–	9	9	1500
7	Holyhead (Valley)	19·1	−6	W	1	bc	74	55	58	7	1	–	–	4-6	4-6	3500
	Chester (Sealand)	19·6	−10	SSE	3	b-bc	74	45	54	7	1	–	–	2-3	2-3	4000
8	Manchester ...	20·5	−6	SE	3	b-bc	73	55	54	7	2	–	–	2-3	2-3	4000
10	Spurn Head ...	23·5	0	ENE	4	b	62	75	52	8	1	–	–	Tr	Tr	2500
	Catterick (Sc.) ...	22·6	−8	NE	2	b-bc	69	55	54	6	1	–	–	2-3	2-3	3500
	Tynemouth ...	25·2	0	E	2	b-bc	60	75	52	7	–	4	1	0	2-3	–
11	St. Abbs Head	24·1	0	E	1	b-bc	58	85	52	7	1	4	–	2-3	2-3	4500
	Leuchars ...	23·7	−6	E	4	b	62	65	52	8	2	–	–	Tr	Tr	3000
12	Renfrew (Abbotsl.)	21·8	−10	NE	3	b-bc	70	65	56	7	1	–	–	2-3	2-3	2000
	Eskdalemuir ...	21·4	−8	E'N	2	b-bc	67	65	53	8	1	–	–	2-3	2-3	3800
	Point of Ayre ...	20·3	−8	E	3	b	65	75	58	8	–	–	–	0	0	–
13A	Tiree	22·0	−6	SE	1	b	65	65	53	9	–	–	–	0	0	–
13B	Stornoway ...	22·9	−4	–	0	b-bc	62	75	53	9	1	–	8	Tr	2-3	2500
15	Dalwhinnie ...	23·0	−2	S	2	b	71	45	49	8	1	–	–	1	1	4000
	Aberdeen ...	24·6	−4	E'S	2	b-bc	57	75	49	8	5	–	5	2-3	2-3	2500
	Wick ...	24·2	−6	SSE	1	b	56	85	52	9	5	–	2	Tr	1	2000
16	Sumburgh ...	24·4	+2	WSW	1	c-bc	57	85	52	8	5	4	7	2-3	7-8	1500
17	Blacksod Point	16·9	−6	SE'E	2	bc	71	65	48	9	8	–	–	4-6	4-6	4000
18	Malin Head ...	19·7	−10	ESE	3	b	60	75	52	8	–	–	–	0	0	–
	Aldergrove ...	20·1	−8	NE	1	b	70	55	55	7	–	–	–	0	0	–
19	Birr Castle ...	16·6	−10	SE	3	bc	71	65	48	8	5	–	–	2-3	4-6	2500
20	Valentia Obsy.	13·6	−14	SE'E	5	c	68	65	55	9	7	9	1	2-3	9+	4000
	Roches Point	16·1	−8	E'S	4	c	60	85	55	8	5	–	–	9+	9+	1500

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

District	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of ground. 0–9 (31)	Sea. 0–9 (32)
1	18·6	−10	E	4	b	69	45	48	8	1	3	4	Tr	1	4000	0	*
	19·0	−12	ENE	3	b-bc	68	45	48	8	–	–	5	0	2-3	–	0	*
	17·1	−10	E'N	4	b-bc	71	45	48	8	–	–	5	0	2-3	–	0	*
	16·4	−14	E'S	5	bc	73	45	49	8	–	7	5	0	4-6	–	0	*
	16·4	−18	E	4	bc	71	55	53	9	–	7	5	0	4-6	–	0	*
	15·6	−12	NE'E	5	b	63	55	46	9	–	7	1	0	Tr	–	0	4 *
	19·9	−4	ENE	4	b	62	65	49	8	–	6	–	0	Tr	–	0	*
2	20·1	−2	ENE	4	b-bc	63	65	50	8	–	–	1	0	2-3	–	0	*
	20·6	−14	S'E	5	b-bc	62	75	55	8	1	–	–	2-3	2-3	4000	0	2
	21·0	−14	NE'N	3	bc	61	75	53	8	1	–	–	4-6	4-6	2500	0	3
	19·5	−10	NE'N	3	b	68	45	45	9	1	–	1	Tr	1	4000	0	*
	20·6	−10	NE'E	4	b	63	65	50	9	–	–	1	0	Tr	–	0	*
3	17·9	−8	E	5	b	71	45	50	8	–	–	9	0	Tr	–	1	*
	17·0	−14	ESE	4	b-bc	73	45	53	8	4	–	5	1	2-3	3500	0	*
4	15·3	−20	ESE	4	b	75	45	50	7	–	–	5	0	1	–	0	*
5	12·2	−18	E	5	c-bc	68	55	53	8	–	8	8	0	7-8	–	0	3
	15·1	−22	ESE	4	c-bc	75	45	52	8	–	–	6	0	7-8	–	0	*
	14·0	−16	E	5	c-bc	62	85	59	8	5	–	–	7-8	7-8	4000	1	5
	13·1	−28	ESE	4	c-bc	67	65	54	8	–	8	6	0	7-8	–	0	2
	10·2	−30	NE	5	c-bc	61	85	56	7	2	6	–	7-8	7-8	1500	0	4
	10·4	−22	E'N	4	tr$_o$	59	97	59	6	9	–	–	9+	9+	1000	1	4
6	14·4	−12	E'S	4	c-bc	68	75	58	7	2	6	1	4-6	7-8	2500	0	3
7	16·4	−14	E	2	b	75	65	52	7	1	–	–	Tr	Tr	3500	0	*
	17·5	−16	ESE	3	b	74	45	52	7	1	–	–	Tr	Tr	3500	0	*
8	18·5	−10	ESE	4	b	71	55	53	8	4	–	–	1	1	4000	0	*
10	21·1	−18	ENE	3	b-bc	57	85	51	8	1	–	–	2-3	2-3	2500	0	2
	21·9	−6	NE	4	b	64	55	49	8	–	–	–	0	0	–	0	*
	23·5	−14	E	3	b	58	75	51	8	–	4	–	0	1	–	0	3
11	22·5	−6	E	3	b	57	85	53	8	5	–	–	1	1	4500	0	2
	22·7	−6	E	3	b	58	75	50	8	–	–	–	0	0	–	0	*
12	20·2	−6	E'N	4	b	68	65	55	8	1	–	–	Tr	Tr	2500	0	*
	20·1	−6	ENE	4	b	66	65	53	8	1	–	–	Tr	Tr	3800	0	*
	19·7	−2	E	3	b	65	55	48	8	–	–	1	0	Tr	–	0	2
13A	20·0	−14	NE	1	b	67	65	55	9	–	–	–	0	0	–	0	1
13B	22·3	−6	NE	3	b-bc	57	85	54	9	1	–	8	Tr	2-3	2500	0	2
15	22·5	−6	S	3	b	69	55	51	8	7	–	–	1	1	4000	0	*
	23·6	−8	E	2	b-bc	55	75	48	8	5	–	6	1	2-3	1500	0	2
	23·7	−10	ESE	2	bc	55	85	50	9	2	–	2	1	4-6	2000	0	*
	23·9	−6	NE	3	c-bc	55	85	52	8	1	4	9	1	7-8	1500	0	2
16	23·9	−6	NE	3	c-bc	55	85	52	8	1	4	9	1	7-8	1500	0	2
17	14·7	−10	SE	3	c-bc	69	65	56	7	8	–	5	4-6	7-8	4000	0	2
18	18·3	−10	E'S	5	b	63	65	51	8	–	–	–	0	0	–	1	4
	18·2	−14	ENE	1	z$_o$	69	55	52	6	–	–	–	0	0	–	0	*
19	15·1	−6	SE	2	c	70	75	62	8	8	–	6	4-6	9	1500	1	*
20	12·2	−10	E	4	c	63	75	55	8	5	7	–	7-8	10	2500	0	4
	13·1	−22	E'S	5	c	61	82	59	8	5	7	–	4-6	9	1500	1	4

PAST 24 HOURS.

District	Weather. 7h.–13h. 17th.... (39)	13h.–18h. 17th... (40)	18h.–24h. 17th/18th... (41)	1h.–7h. 18th... (42)
1	bwlby	by	bybcc	c
	bcby	by	ccmo	cmoc
	bcm.bcy	bcby	c	cbcc
	cmcbcy	bcybybcy	bcyc	ccroc
	by	bybcy	c	circ.
	by	by	bcc	c
	by	byb	bbcc	c
	bc	bc	bcc	c
	cbcb	b	c	c
	bc	bc	bcc	c
	bybcy	by	bybc	c
	bbc by	bcyb	bybcbcmo	c
	fobc	bcb	bbc	bcc
	bbcy	bcyby	c	c
	bcbbc	bcy by	bcyc	pocc
	cbcb	bc	clyir	bccl
	cmcbcy	bcybybcbcycycl		circ,ir
	cbc	c	cpr	c
	cv	bcc	clbcc	cmo
	ordfc	cpmc	rrlpc	ocif
	c	cirtr$_o$	ctlrqc	c
	c	bcc	vtrrr	irc
	bbczcy	bcy	bbc	cbcc
	bmozo	bbcby	by,b,bc	c,cmo
	cmozobcy	bbcby	bybbc	bc
	bc	bc	c	c
	bcz$_o$	by	c	c
	bc	bc	bcc	c
	bcz$_o$	bcb	bbcc	c
	b	b	bbcc	c
	bmddozddbc	bcbcybby	bw	bwcwc
	bvbc	bcb	bvb	bbcc
	b	b	bbcb	bbccb
	b	b		b
	b	bbc	bcb	b
	by	by		bbc
	bcb	bcy	bcc	c
	cbc	bcv	bcb	c
	c	cv	c	cw
	bc	bc	b	bc
	b	b	b	b
	bbcy	byz$_o$	byzobz$_o$	bcb
	bc	c		pr
	c	c	r	r
	c	c	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 18th July

Districts	
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales	Moderate easterly winds; cloudy with local thundery rain, mainly slight: some coast fog in the Southwest: cool.
8 N.W. England 9 N. Midlands ...	Light southeast winds; fair with considerable bright periods: rather warm.
10 N.E. England 11 S.E. Scotland	Light east or southeast wind: mainly cloudy: cool.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland	As 8.
14 Mid Scotland 15 N.E. Scotland	Winds light variable, mainly easterly: fair, rather cool.
16 Orkneys and Shetlands	As 14-15
17 N.W. Ireland 18 N.E. Ireland	As 8
19 S.E. Ireland 20 S.W. Ireland	As 0-7

GENERAL INFERENCE

A depression is almost stationary off Southwest England and a ridge of high pressure extends northeast from Northeast Scotland. Weather will be generally cloudy and cool in the southern half of the country with local thundery rain. In the North it will be fair.

FURTHER OUTLOOK

Continuing unsettled and thundery in the South; fair in the North.

Forecasts issued at 1300

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Sunday 18th July, 1943.

LOW

HIGH

LOW

1014 1016 1018 1020 1022 1014 1012 1010 1008

10° 5°W. 0° 5°E 10°

60° 55° 50°

Mb. In.
1050 31
1040
1030
1020 30
1010
1000 29
990
980 28
970
960 27
950
940 26
930

STATION MODEL

High Cloud
Medium cloud
Low cloud
Total Amount of cloud
Wind
Barometer mb.
Bar. change in past 3 hours in mbs.
Weather in past hour
Past weather
Temperature °F.
Present weather
Visibility
Dew Point °F
Amount of Low cloud
Height of Low cloud
Code figure (one figure) or hundreds of feet (two figures)

Scale 1.: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below):

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Sunday 18th July

1943.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 18th July 1943 — No. 23823

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	57	*	*	*	*	*	*	*	*	*
	Croydon ...	290	17·7	−14	E	3	2o	55	85	52	6	5	7	2	2-3	9+	1500
	S. Farnborough	226	15·9	−12	E	3	c	55	85	50	8	5	7	7	1	10	5700
	Boscombe Down	417	16·1	+2	E	3	c	56	75	48	8	5	7	−	4-6	10	5000
	Thorney Island	10	15·4	−6	ENE	2	c	57	85	51	7	5	7	−	4-6	10	2500
	Lympne ..	283	16·8	−14	NE'N	3	cbc	55	82	52	8	1	−	3	0	7-8	−
	Manston ...	154	17·4	−16	E'N	3	c	57	85	53	7	5	3	7	2-3	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	5	*	*	*	9+	2000
	Felixstowe ...	12	18·7	−12	ESE	4	c	59	75	49	8	5	−	−	−	9+	2000
	Gorleston ...	5	19·2	−10	ENE	3	c	58	85	52	7	5	−	−	−	10	1500
	Mildenhall ...	15	18·5	−10	E'S	3	c	57	75	49	8	5	−	−	−	10	1800
	Cranwell ...	203	19·3	−12	E'N	3	c	55	85	50	6	5	−	−	−	10	1000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	17·1	−6	E	3	c	53	85	49	7	−	8	6	0	9+	−
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	08·1	−16	ENE	6	bc	58	75	51	7	2	9	−	Tr	4-6	2500
	Bristol	209	16·2	+4	ENE	3	ir	59	75	49	7	5	2	−	4-6	10	2500
	Portland Bill ...	32	12·9	−4	E	5	c	60	85	56	8	5	−	−	1	10	4000
	Plymouth ...	86	11·4	−4	E	6	cbc	60	75	53	8	−	3	6	0	7-8	−
	The Lizard ...	240	08·8	−4	ENE	5	c	59	97	58	7	5	−	−	9+	9+	1000
	Scilly (St. Mary's)	163	08·8	−6	E'N	4	c	59	92	56	7	8	−	−	9+	9+	1000
	Guernsey ...	175															
6	Pembroke ...	142	12·7	−14	E'N	6	rr	59	85	55	7	8	2	−	7-8	10	1500
7	Holyhead (Valley)	32	16·2	−2	ENE	3	c	59	75	51	7	−	7	2	0	9+	−
	Chester (Sealand)	16	18·3	+2	SE	1	cbc	53	85	51	7	−	4	6	0	7-8	−
8	Manchester ...	230	13·0	−2	E'N	2	cbc	50	85	46	8	−	3	2	0	7-8	−
10	Spurn Head ...	29	20·6	−8	ENE	3	c	56	85	52	7	5	2	−	4-6	10	1500
	Catterick (Sc)...	192	22·0	+4	WSW	1	cbc	52	92	50	7	5	−	−	7-8	7-8	1500
	Tynemouth ...	108	22·5	−8	E	2	c	55	75	47	7	8	−	−	9+	9+	2500
11	St. Abbs Head	280	21·3	−10	ESE	1	c	52	85	48	7	5	−	−	9+	9+	2500
	Leuchars ...	36	21·9	−8	NE	1	c	53	85	47	8	5	−	−	9+	9+	900
12	Renfrew (Abbotsl.)	19	20·8	+2	E'N	3	b	51	85	48	7	−	−	−	0	0	−
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	19·9	+14	SSE	3	b	58	85	52	8	−	−	−	0	0	−
13A	Tiree	44	13·2	−6	E'N	2	b	57	75	52	8	−	−	−	0	0	−
13B	Stornoway ...	12	20·7	−10	−	0	b	54	85	51	8	−	−	8	0	1	−
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	22·8	−4	−	0	c	51	85	47	8	5	−	−	9+	9+	1500
	Wick	114	22·6	−10	S'E	1	c	51	92	49	7	5	7	2	7-8	9	1500
16	Sumburgh ..	19	22·3	−6	NNE	3	c	50	97	49	8	5	−	−	Tr	10	1200
17	Blacksod Point	18	14·0	−10	E	3	b	61	85	59	7	−	−	−	0	0	−
18	Malin Head ...	84	17·7	−6	SE	3	b	59	85	55	8	−	3	−	0	1	−
	Aldergrove ...	268	18·1	+2	E	1	2o	57	85	52	6	−	−	−	0	0	−
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	09·8	−14	E'S	4	ir	62	85	58	6	6	7	−	Tr	10	2500
	Roches Point	22	10·9	−10	E	5	c/r	61	92	59	8	5	7	−	4-6	9	1500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
14·7	0	E'N	4	c	61	75	53	8	5	2	−	9	10	2500	0	*
15·6	−6	E	2	c	60	85	54	8	5	−	−	10	10	2000	0	*
13·9	−14	E	4	c	59	75	53	8	5	7	−	7-8	9+	1000	0	*
13·8	−2	E	4	c	57	85	52	8	5	7	8	4-6	9+	2000	0	*
13·2	−6	E'N	4	c	60	85	54	7	5	7	7	4-6	10	3000	0	4
15·3	−6	E'N	4	c	58	75	52	8	5	7	−	4-6	9+	2000	0	*
15·8	−6	E	3	c	60	75	52	8	5	−	−	10	10	2500	0	*
16·5	−16	E	4	c	60	85	54	8	5	2	−	9	10	1500	0	*
16·9	−6	ESE	4	c	59	85	53	8	5	−	−	10	10	2500	0	3
18·3	−6	ENE	4	c	57	85	51	7	5	−	−	10	10	1700	0	3
16·6	−10	E	4	c	57	75	49	8	5	−	−	10	10	2000	0	*
16·7	−18	E'N	3	c	55	85	51	8	5	−	−	10	10	1500	0	*
13·3	0	E	4	o	53	85	48	7		−	−	10	10	1500	1	*
15·1	−6	E'N	4	c	56	85	50	8	5	−	−	10	10	1500	0	*
14·9	−4	NE	4	c	55	85	49	7	5	−	−	10	10	2500	0	*
10·7	+8	ENE	3	c	56	85	51	8	2	7	−	1	9	2500	0	3
13·9	−2	E	2	ir	54	92	53	7	5	7	−	4-6	10	1500	1	*
11·6	−8	E	5	c	60	85	46	8	5	−	−	10	10	4000	1	5
10·7	+4	ESE	4	2o	60	85	57	6	5	7	−	9	9+	1000	0	3
09·2	0	SE	2	if	60	97	60	6	5	6	−	7-8	7-8	800	1	3
08·4	+2	SE	3	cjf	60	97	60	6	5	2	−	9+	9+	500	1	3
11·4	+6	E	6	c q	55	85	53	7	2	6	−	4-6	9+	2500	1	3
13·2	−6	NE	5	c	56	85	52	8	5	7	−	Tr	9+	3000	0	1
16·3	−10	ESE	1	c	54	85	49	6	5	−	−	7-8	9+	2000	0	*
16·6	−16	E'S	4	2o	55	85	49	6	5	3	−	2-3	9	2000	0	*
18·2	−12	NE'E	3	o	55	75	47	8	5	−	−	10	10	1500	0	2
20·3	−10	NE	1	c	53	75	46	8	5	−	−	9+	9+	2000	0	*
20·6	−2	E	3	c	55	75	47	8	5	−	−	9+	9+	2300	0	3
19·8	−4	NE	1	c	52	85	48	8	5	−	−	10	10	3500	0	2
20·2	−8	ENE	2	c	53	75	45	8	5	−	−	9+	9+	2500	0	*
19·2	−8	ENE	3	c	53	85	47	7	5	−	−	7-8	9+	1800	0	*
19·8	−10	NEE	3	c	49	85	44	8	5	7	−	7-8	9	1800	0	*
16·3	−18	E	3	b	56	75	49	7	5	8	−	Tr	1	1000	0	2
18·0	−4	SE	2	b	59	75	53	9	−	−	2	0	Tr	−	1	1
18·8	−8	−	0	b	59	75	52	9	−	−	1	0	Tr	−	0	1
20·0	−10	NNE	1	bc	50	92	48	8	1	4	−	Tr	4-6	2500	1	*
20·9	−12	NNW	1	c	53	75	47	8	5	−	−	9+	9+	2500	0	1
21·2	−6	ESE	2	c	52	85	49	8	5	−	−	9+	9+	2000	0	*
21·5	−2	NNW	2	c	53	97	52	8	1	4	6	1	9	800	0	1
13·1	−2	E	3	bbc	62	75	5	7	5	4	−	1	2-3	4000	0	3
16·4	−10	E	4	b	58	75	50	8	−	3	−	0	Tr	7200	0	3
16·4	−10	E	3	b	53	85	47	7	5	7	−	1	1	2500	0	*
11·8	+2	ESE	3	c	57	85	52	8	5	−	−	9+	9+	2500	0	*
08·7	+2	ESE	5	c	60	85	55	8	5	−	−	9+	9+	2500	1	3
08·8	−8	E	6	c/r	59	92	57	7	6	2	−	4-6	9+	1500	1	5

PAST 24 HOURS.

Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 17th Hrs. (38)
73	57	53	−	−	14·6
75	55	53	−	−	14·3
78	55	50	−	−	11·9
77	53	52	−	Tr	10·0
75	54	53	−	Tr	*
68	52	*	−	−	14·5
69	55	53	−	−	14·3
68	57	54	−	−	14·5
67	57	55	−	−	14·4
64	57	55	−	−	14·3
76	52	*	−	−	15·0
72	50	46	−	−	14·3
75	51	47	−	−	11·1
76	52	45	−	−	*
77	52	52	−	Tr	13·0
71	55	55	−	−	7·0
78	53	51	−	1	8·8
63	57	*	−	0·4	*
68	59	54	−	1	*
61	56	*	Tr	3	0·9
62	58	*	2	2	0·0
70	56	*	−	1	3·6
77	54	49	−	−	*
76	51	43	−	−	14·4
75	48	43	−	−	*
63	54	*	−	−	14·1
76	50	43	−	−	13·8
61	53	54	−	−	*
61	51	*	−	−	*
63	51	47	−	−	15·4
75	50	42	−	Tr	13·9
71	45	35	−	−	14·6
66	50	*	−	−	13·8
70	53	46	−	−	15·1
65	49	*	−	−	13·4
72	41	34	−	−	13·7
58	51	48	−	−	13·4
57	49	46	−	−	*
58	48	43	−	−	6·0
74	58	*	−	−	*
66	57	*	−	−	15·1
71	51	47	−	−	14·5
72	57	56	−	0·2	12·6
68	60	57	−	2	5·3
63	59	*	−	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 17th July	18h. G.M.T.	01h. G.M.T. 18th July	07h. G.M.T.
IIIC$_L$C$_M$ wwVhN$_h$ DDFWN	C$_L$C$_M$ wwVhN$_h$ DDFWN	C$_L$C$_M$ wwVhN$_h$ DDFWN	C$_L$C$_M$ wwVhN$_h$ DDFWN
104 − 01852 10313	− − 08313 23857	57 01743 13114	1 − 01852 11212
1154 01364 08214	53 01964 08214	54 01964 12114	54 01961 08214
203			
2040 01961 07311	10 01961 06403	50 01853 26313	50 01854 04124
2100 01961 06312	10 01851 08214	03 01990 10114	50 01942 06113
219	00 00990 08301	00 04990 07313	00 01890 10210
2840 01962 00002	10 01971 00001	00 00990 00000	18 01951 00001
2480 01851 10301	50 01851 10201	53 05646 23117	5− 02747 09127
2860 01752 04212	10 01851 04311	00 00790 04200	52 02855 04428
2710 01861 10311	04 02890 09315	03 01890 14213	00 01990 32113
2790 01863 06303	00 00790 02510	00 01790 04411	54 01861 07612
2850 05684 12414			
2880 01861 02441	00 00890 06300	5− 02757 07227	5− 02848 08328
5750 01861 12311	10 05661 12314	00 05690 12100	14 05661 28214
3040 05664 09314	00 05690 10311	04 05690 07301	57 01863 08425
3210 01864 08214	00 00890 08310	5− 02748 06228	5− 02748 06328
2900 00790 28300	14 01763 04303	5− 02747 28322	5− 02747 04227
2840 01863 00013	00 01890 06311	5− 02755 00025	
316 − 01644 08414			
614 − 01754 04214	00 01890 08311	5− 05648 04328	5− 02755 06328

13h. G.M.T. 17th July	18h. G.M.T.	01h. G.M.T. 18th July	07h. G.M.T.
IIIC$_L$C$_M$ wwVhN$_h$ DDFWN	C$_L$C$_M$ wwVhN$_h$ DDFWN	C$_L$C$_M$ wwVhN$_h$ DDFWN	C$_L$C$_M$ wwVhN$_h$ DDFWN
3840 01762 11312	53 01763 10314	03 05690 37524	27 02851 07428
324 − 05653 12214			
3400 05661 12401	00 01890 08511	57 02764 08427	5− 02748 08428
1360 01961 04302	40 01961 06401	5− 02848 07228	5− 02848 10428
3830 01754 12415	13 01752 12413		
8560 01862 08302	50 01864 08404	5− 02747 07327	5− 02858 06228
3680 05664 14254	50 02764 12415	52 62644 06368	53 05664 06465
3710 05664 12414	48 01761 12413	03 07790 06426	57 02746 08428
3990 01761 10301	00 00890 10300	57 02744 06328	5− 05648 02328
3880 01763 12313		57 07763 06227	5− 02837 10327
4380 01751 06411	50 01753 06513	57 02744 04617	57 02754 04616
4310 01761 24401	03 01890 07404	07 02890 40517	57 02753 06427
4040 01852 10413	58 02763 45426	84 01852 06413	5− 02644 10426

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$, C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E., 16 = S., 24 = W., 32 = N).

§ See disturbance reported from Dungeness. † 07h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 18th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew ...	bwby	by	bybcc	Kew 24 hours ended 7h. Max. Time
Croydon	bcby	by	cmoc	
Greenwich ...	by	by	bccc	
Camden Square	o	b	*	
Kensington ...	b	b	*	<0.1 Whole period
Hampstead ...	b	bc	o	Min. Time

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	73	57	53	−	−	14·6	*	*
Croydon	75	55	53	−	−	14·3	*	*
Greenwich	73	55	49	−	−	14·6	40	75
Westminster	74	57	55	−	−		47	81
Regents Park ...								
Camden Square	77	56	53	−	−	*	*77	
Kensington	76	56	53	−	−		77	76
Hampstead	72	52	49	−	−		*80	

SECRET

Page 1

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Monday 12th July, 1943

No. 29824

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	13·1	-14	ENE	4	c	67	55	52	8	7	7	6	2-3	9+	4000
	Croydon ...	13·7	-14	ENE	3	c-bc	67	65	44	8	-	4	6	0	7-8	-
	S. Farnborough	11·8	-18	E'N	4	c	68	55	54	8	7	7	7	4-6	9+	4000
	Boscombe Down	12·2	-8	E'N	3	c	67	65	54	7	5	7	-	4-6	9+	4000
	Thorney Island	11·6	-10	E	3	c	72	55	55	9	5	7	7	4-6	10	5000
	Lympne ...	12·9	-18	NE'E	5	c	65	65	54	8	-	-	8	0	9	-
	Manston ...	13·0	-18	NE'E	4	c	65	65	53	8	5	7	7	Tr	9+	500
2	Shoeburyness ...	15·1	-18	NE'E	4	c-bc	64	75	54	8	5	2	-	4-6	7-8	2500
	Felixstowe ...	16·0	-6	NE	4	c	63	75	56	8	5	7	6	7-8	9	2500
	Gorleston ...	17·0	-10	NE'N	2	c-bc	60	75	50	7	5	4	1	4-6	7-8	1700
	Mildenhall ...	15·2	-14	S	3	c-bc	67	55	51	8	5	4	6	4-6	7-8	2500
	Cranwell ...	16·2	-14	E	4	c	61	75	53	8	5	-	-	10	10	3000
3	Birmingham ...	15·2	-8	E	4	ir₀	56	85	51	7	6	7	-	7-8	10	1500
	Upper Heyford	13·6	-18	ENE	4	ir₀	61	75	52	8	5	2	-	4-6	10	2500
4	Ross-on-Wye	13·5	-12	ENE	4	c	60	75	53	8	5	7	-	9	10	2500
5	Hartland Point	10·0	-4	E	3	c	64	85	47	7	5	-	-	9+	9+	1500
	Bristol ...	12·2	-14	ENE	3	c	65	75	56	8	5	7	-	7-8	9+	4000
	Portland Bill ...	11·6	+4	E	5	o	62	85	58	7	5	-	-	10	10	2500
	Plymouth ...	10·8	+2	E'S	3	z₀	64	75	54	6	5	1	-	9	10	600
	The Lizard ...	09·3	+2	E	3	if	63	92	61	3	5	-	-	10	10	800
	Scilly (St. Mary's)	08·9	+4	E'S	3	c	64	85	50	7	5	7	-	7-8	9+	1000
	Guernsey ...															
6	Pembroke ...	11·3	-2	NE'E	8	cq	62	85	59	8	8	2	-	4-6	10	2500
7	Holyhead (Valley)	13·5	-2	NE'E	3	c	60	85	55	8	5	7	7	2-3	10	6000
	Chester (Sealand)	15·5	-6	SE'E	2	c	60	75	51	6	5	7	-	9	10	2500
8	Manchester ...	16·3	-10	ESE	3	c-bc	61	85	51	7	5	3	1	2-3	7-8	2500
10	Spurn Head ...	17·9	+4	E'N	3	c	60	85	56	8	7	3	-	7-8	9	1500
	Catterick (Sc.) ...	18·5	-6	NE	2	c-bc	61	65	50	8	5	3	-	4-6	7-8	2500
	Tynemouth ...	19·8	-2	SE	2	c	57	65	46	8	5	-	-	9+	9+	2300
11	St. Abbs Head	18·6	+4	E	3	c	54	85	50	9	5	-	-	10	10	2000
	Leuchars ...	19·3	-2	ESE	3	c	57	65	45	9	5	-	-	9	9	3500
12	Renfrew (Abbotsl.)	17·5	-2	NE	3	bc	63	65	52	7	1	-	1	Tr	4-6	3000
	Eskdalemuir ...	16·9	-6	E'N	3	bc	60	65	49	8	7	4	8	4-6	4-6	2700
	Point of Ayre ...	16·5	-2	S	4	c-bc	64	65	52	7	-	-	2	0	7-8	-
13A	Tiree	16·9	-8	-	0	b	67	75	57	9	-	-	9	0	1	-
13B	Stornoway ...	17·2	-10	NE	2	b	64	55	48	9	1	-	5	Tr	1	2500
15	Dalwhinnie ...	18·0	-6	S	2	b	73	45	52	8	1	4	5	Tr	1	4000
	Aberdeen ...	19·7	-2	E	2	o	58	75	50	8	5	-	7	2-3	9+	1500
	Wick ...	19·3	-10	E'N	2	bc	56	85	50	9	1	-	2	1	4-6	2000
16	Sumburgh ...	19·8	-6	NE	2	c-bc	57	85	53	8	-	4	5	0	7-8	-
17	Blacksod Point	12·8	+2	E	3	c	66	65	54	7	8	-	-	9	9	4000
18	Malin Head ...	15·8	-6	ESE	3	b-bc	57	75	49	8	-	-	2	0	2-3	-
	Aldergrove ...	15·8	-2	ESE	3	bc	62	65	51	7	5	3	5	2-3	4-6	2500
19	Birr Castle ...	12·4	0	SE	2	c	59	75	51	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	08·9	+6	E	3	c	66	75	58	8	2	7	1	4-6	9+	2500
	Roches Point	10·3	+10	E	5	c/r	59	97	58	7	6	2	-	4-6	9+	800

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	12·3	+2	ENE	4	c	62	75	53	8	5	7	-	7-8	9+	2500	1	*
	Croydon ...	13·3	+2	NE	3	c	61	85	55	7	5	7	6	4-6	9+	5000	1	*
	S. Farnborough	12·0	+2	E	3	c/r	61	85	56	8	8	7	9	4-6	9	3500	0	*
	Boscombe Down	11·4	-4	E'N	4	c	66	65	54	7	5	7	8	4-6	9	5000	0	*
	Thorney Island	10·7	-6	NNE	3	c	67	65	56	9	5	4	8	1	9	4000	0	*
	Lympne ...	12·0	-2	NE	5	c	62	75	53	8	-	8	7	0	10	-	0	5
	Manston ...	12·3	-10	ENE	4	c	61	85	54	8	5	7	-	2-3	10	2000	0	*
2	Shoeburyness ...	14·2	-2	NE	5	c	61	75	54	8	5	2	-	4-6	10	2500	0	*
	Felixstowe ...	13·0	-18	NE	4	c	61	75	54	8	5	3	-	2-3	9+	4000	0	2
	Gorleston ...	14·6	-8	NE'E	4	c-bc	61	75	54	7	7	7	-	4-6	7-8	1800	0	3
	Mildenhall ...	13·7	-2	ENE	4	c	64	65	51	8	5	7	2	Tr	9+	4000	0	*
	Cranwell ...	14·8	-10	ENE	3	c	59	75	51	8	5	3	2	4-6	9	4300	0	*
3	Birmingham ...	13·7	0	E	3	ir₀	60	75	52	6	6	2	-	2-3	10	1500	1	*
	Upper Heyford	12·6	-4	NE'N	2	ir₀	63	75	54	8	6	3	-	2-3	10	5000	1	*
4	Ross-on-Wye	12·7	-4	ENE	2	c₀	58	92	55	7	5	7	-	7-8	10	2500	1	*
5	Hartland Point	09·8	+6	NE	3	z₀	62	92	60	7	5	-	-	9+	9+	1600	0	3
	Bristol ...	11·5	-6	ENE	3	c	63	75	56	8	8	-	2	7-8	9	4300	1	*
	Portland Bill ...	10·9	-4	E	4	c	62	85	59	7	5	-	-	10	10	2500	1	5
	Plymouth ...	10·4	-4	E'S	3	z₀	62	85	57	6	1	7	8	Tr	10	1000	0	2
	The Lizard ...	09·2	-4	NE	2	c/pr	60	92	58	6	5	-	-	9+	9+	1500	1	4
	Scilly (St. Mary's)	08·9	+6	E	3	c	62	92	60	6	5	7	-	7-8	10	800	1	3
	Guernsey ...																	
6	Pembroke ...	11·3	0	E'N	4	r₀	61	92	58	8	5	-	-	10	10	2500	0	3
7	Holyhead (Valley)	13·1	-2	WSW	2	c	59	85	55	7	5	7	-	4-6	9+	6000	0	1
	Chester (Sealand)	13·6	-2	SSE	1	c-bc	64	75	55	6	5	7	-	2-3	7-8	3500	0	*
8	Manchester ...	14·0	-10	SE	3	bc	65	55	50	7	-	9	1	0	4-6	-	0	*
10	Spurn Head ...	16·1	-8	NE	3	c	57	85	52	8	5	-	-	9+	9+	1500	0	2
	Catterick (Sc.) ...	17·8	-4	NNE	3	c	59	75	51	7	5	-	-	10	10	2500	0	*
	Tynemouth ...	19·1	-2	ENE	3	c	56	92	54	8	8	-	-	10	10	2400	0	3
11	St. Abbs Head	17·6	-4	NE	1	c	54	92	51	8	5	-	-	10	10	2000	0	2
	Leuchars ...	18·1	-10	ESE	3	bc	57	65	47	9	5	4	1	4-6	4-6	3500	0	*
12	Renfrew (Abbotsl.)	16·2	-6	ENE	3	b	64	65	52	8	-	-	1	0	1	-	0	*
	Eskdalemuir ...	16·0	-14	NE'E	3	b	61	65	50	7	5	1	-	Tr	1	2700	0	*
	Point of Ayre ...	14·4	-12	NE	1	bc	63	75	53	8	-	-	2	0	4-6	-	0	1
13A	Tiree	16·0	-6	-	0	b	67	45	44	9	-	-	2	0	1	-	0	1
13B	Stornoway ...	16·5	-2	NE	2	b-bc	61	85	56	9	-	-	9	0	2-3	-	0	1
15	Dalwhinnie ...	17·5	-2	S	3	b	65	65	52	8	1	-	1	Tr	1	4000	0	*
	Aberdeen ...	18·2	-12	ESE	1	c	57	75	47	8	-	-	7	0	9+	-	0	1
	Wick ...	18·3	-8	NNE	1	b-bc	56	92	54	9	-	-	4	0	2-3	-	0	*
16	Sumburgh ...	19·0	-6	NE'N	3	c-bc	55	85	52	8	5	8	8	Tr	7-8	1000	0	2
17	Blacksod Point	12·6	+2	E	1	c	64	75	56	7	5	-	-	9	9	4000	0	2
18	Malin Head ...	14·9	-4	E	3	bc	60	75	52	8	-	-	7	0	4-6	-	0	3
	Aldergrove ...	14·6	-8	SE'E	3	bc	63	65	50	7	-	7	1	0	4-6	-	0	*
19	Birr Castle ...	12·4	-2	SE	1	c	59	85	54	8	5	1	-	7-8	10	2500	0	*
20	Valentia Obsy.	09·3	+2	E'S	4	c	65	75	57	8	1	9	3	1	9+	2500	1	3
	Roches Point	10·3	0	E	5	z₀	58	92	56	6	5	-	-	10	10	800	1	4

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—13h. 18th. (39)	Weather. 13h.—18h. 18th (40)	Weather. 18h. 18th to 1h. 19th (41)	Weather. 1h.—7h. 19th (42)
1	London (Kew)	c₂cy	cyc	c	cmo
	Croydon ...	c	c	ccmo	cmocmo
	S. Farnborough	cy	cpc₀c	cc₂cmo	cmicmo
	Boscombe Down	c	c	cciro	cicrocc
	Thorney Island	cicc	c	ctccrr	crr
	Lympne ...	c	c	bcdbc	bccmo
	Manston ...	c	c	cbcc	bcicmo
2	Shoeburyness ...	c	c		c
	Felixstowe ...	c	c	cicc	c
	Gorleston ...	c	c	c	c
	Mildenhall ...	cbcy	bcycyc	c	c
	Cranwell ...	cicdoc	cbcc	c	c
3	Birmingham ...	ocir₀	cir	ciro	cz
	Upper Heyford	prcir₀	cir	cidoc	c
4	Ross-on-Wye	crr₀c	rcrc	c	c
5	Hartland Point	c	c	c	crocc
	Bristol ...	cir₀c	ccir₀	ciroccrmo	cmo, ir, iro
	Portland Bill ...	co	oc	O	orr
	Plymouth ...	cm₀	cmmm₀	cmicrmo	cicromcr
	The Lizard ...	ocmif	clfpre	crorc	clocc W
	Scilly (St. Mary's)	c	c	cW	c
	Guernsey ...				
6	Pembroke ...	cq	cqc	c	c
7	Holyhead (Valley)	cb	c	c	c
	Chester (Sealand)	cm₀z₀	cz₀	cpr₀iro	cmo
8	Manchester ...	cz₀yc	cbc	bcycmo	cmoc
10	Spurn Head ...	c	c	O	O
	Catterick (Sc.) ...	b	cbcc	cidoc	c cmo
	Tynemouth ...	c	c	C	c
11	St. Abbs Head	c	c	c	c
	Leuchars ...	cbc	bc,b	bbc	bcWbWcW
12	Renfrew (Abbotsl.)	bcy	bcyby	bybcc	como
	Eskdalemuir ...	obcc	cbc	bcbz₀	bbcc
	Point of Ayre ...	b	b	bywrmo	bmoWbW
13A	Tiree	bby	byb	bbW	bW
13B	Stornoway ...	bcb	b		b
15	Dalwhinnie ...	cbcc ⊕	c	c	c
	Aberdeen ...	bcvbc	bcb	bcc	cbcc
	Wick ...	c	c	bcc	bcc
16	Sumburgh ...	c	c	c	bc
17	Blacksod Point	b	bc	b	b
18	Malin Head ...	bbc	bccbc	bcmobmo	bmoemo
	Aldergrove ...	pr	c	•	r
19	Birr Castle ...	r	c	c	bc
20	Valentia Obsy.	r	c	C	C
	Roches Point	r	c		

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 19th July

Districts	
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands	Moderate northeast wind, fresh locally. Cloudy; occasional rain; local thunder: local coast fog: cool. Light or moderate northeast wind. Cloudy; local thundery rain; rather warm but cool near East coast; local coast fog.
5 S.W. England	As 1
6 South Wales	As 2-4
7 North Wales 8 N.W. England	Light or moderate northeast wind; fair: warm.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light or moderate northeast wind. Cloudy; local coast fog and drizzle: cool.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland	As 7-8
15 N.E. Scotland	As 9-10
16 Orkneys and Shetlands	As 9-10
17 N. W. Ireland 18 N. E. Ireland	As 7-8
19 S. E. Ireland 20 S. W. Ireland	As 2-4

GENERAL INFERENCE

A depression over France is spreading slowly north. Weather will be fair in West Scotland, North Ireland and Northwest England. There will be much cloud near the East coast and local thundery rain in the South.

FURTHER OUTLOOK

Similar

Forecasts issued at 1300

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Monday 19th July 1943.

HIGH

Low

1018 1016 1014 1012 1010 1008

10° 5°W. 0° 5° E 10°

60° 55° 50°

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud (Code figure (one figure) or hundreds of feet (two figures))

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000.

Mb. In.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Monday 19th July

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol.—◯

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— ◯ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ● Rain falling. ✱ Snow. ⁂ Sleet. △ Nail. Fog. ≡ Mist. = Thunder. (K) Thunderstorm. K Slight haze. ∞

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

THE DAILY WEATHER REPORT
BRITISH SECTION — OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 19th July 1943 — No. 29824

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	57									
	Croydon ...	290	12·8	−4	ENE	3	2o	57	92	55	6	5	−	−	10	10	1000
	S. Farnborough	226	11·5	−4	NE	2	2o	57	85	51	6	5	−	−	10	10	1600
	Boscombe Down	417	11·9	−2	ENE	3	ir6	57	75	51	7	5	−	−	10	10	4200
	Thorney Island	10	11·1	+2	NW	3	rr	58	92	56	7	6	2	−	7-8	10	1500
	Lympne ..	283	11·2	−6	NEN	4	b-bc	57	92	55	8	−	−	1	0	2-3	−
	Manston ...	154	11·3	−6	NEE	3	b-bc	59	97	58	7	5	4	1	Tr	2-3	1200
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	12·8	−6	NE	4	c	59	85	53	8	5	7	−	7-8	9+	4000
	Gorleston ...	5	13·5	−4	ENE	4	c-bc	59	85	53	7	8	7	−	4-6	7-8	1500
	Mildenhall ...	15	13·6	−2	NE	3	c	55	85	50	8	5	7	−	Tr	9+	2500
	Cranwell ...	203	14·2	−6	E'N	3	c	55	85	49	8	5	−	−	10	10	1200
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	12·5	−4	NEE	3	c/d	54	85	50	7	5	−	−	9+	9+	7200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09·3	−6	ENE	3	c-bc	60	97	59	7	5	6	−	4-6	7-8	2500
	Bristol	209	12·2	−2	ENE	3	c/r	57	85	54	6	5	2	−	7-8	10	1600
	Portland Bill ...	32	10·1	−12	N	1	0	59	92	57	7	5	−	−	10	10	2500
	Plymouth ...	86	10·0	−2	ENE	2	2o	59	92	57	6	−	7	6	0	7-8	−
	The Lizard ...	240	09·7	0	−	0	c	58	97	58	7	5	−	−	10	10	1000
	Scilly (St. Mary's)	163	09·0	−2	E'S	3	c	59	97	59	7	8	5	−	1	9+	1200
	Guernsey ...	175															
6	Pembroke ...	142	11·2	−2	EN	3	c	59	92	56	7	5	2	−	4-6	10	2500
7	Holyhead (Valley)	32	13·1	−6	NE	2	c	57	92	55	7	−	7	−	0	10	−
	Chester (Sealand)	16	14·7	+6	−	0	c/r	58	85	51	5	5	−	−	10	10	1800
8	Manchester ...	230	14·7	+2	E	2	2o	53	85	50	6	5	7	−	8	10	1600
10	Spurn Head ...	29	15·5	−8	NE	2	c	56	92	53	7	5	−	−	10	10	1500
	Catterick (Sc)...	192	17·9	−2	ENE	1	c	54	85	51	7	5	−	−	10	10	2000
	Tynemouth ...	108	18·0	+4	NE	3	c	55	85	51	7	5	−	−	9+	9+	2500
11	St. Abbs Head	280	17·4	+2	ESE	2	c	52	85	48	8	5	−	−	9+	9+	2500
	Leuchars ...	36	17·8	−2	−	0	c	49	85	45	8	5	3	−	7-8	9+	2000
12	Renfrew (Abbotsl.)	19	17·0	+4	E'S	1	b-bc	49	92	47	7	5	4	8	2-3	2-3	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	15·3	+2	SES	3	2o	56	85	52	6	5	4	1	Tr	1	2000
13A	Tiree	44	16·5	+2	−	0	2o	52	97	51	6	−	3	−	0	Tr	−
13B	Stornoway ...	12	16·6	+2	−	0	b	52	92	50	9	−	−	1	0	Tr	−
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	17·7	−4	−	0	c	46	97	45	8	5	4	1	7-8	9	2000
	Wick ...	114	18·1	−6	E	1	c-bc	51	97	51	7	5	5	6	4-6	7-8	1500
16	Sumburgh ..	19	18·4	−2	NE'N	3	c	51	92	50	8	5	−	−	7-8	9	1000
17	Blacknod Point	18	14·0	0	E	3	c	59	85	55	7	5	−	−	9	9	4000
18	Malin Head ...	84	15·7	+2	−	0	b	55	85	51	8	−	−	−	0	0	−
	Aldergrove. ...	268	15·4	0	NE	1	b	51	92	48	6	−	−	−	0	0	−
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	11·6	+2	NE'N	2	c	58	85	54	7	5	7	3	1	9	2500
	Roches Point	22	11·2	+2	ENE	4	2o	58	92	56	6	5	−	−	9+	9+	800

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
09·8	−12	NE	3	2o	60	85	54	6	5	−	−	10	10	1500	1	*
11·0	−10	NE	3	2o	60	85	56	6	5	−	−	4-6	10	1000	0	*
09·8	−10	NE	3	2o	58	85	54	6	5	−	−	10	10	1400	1	*
10·8	−4	NE	3	c	55	92	53	7	5	−	−	7-8	10	1200	1	*
09·5	−12	NE	3	rr	58	92	57	6	5	−	7	7-8	10	1500	1	*
08·8	−10	NE	5	2o	61	85	57	6	5	9	−	Tr	9+	500	0	*
09·4	−8	ENE	4	2o	61	92	59	6	5	7	−	2-3	10	600	0	*
11·2	−8	NE	4	c	63	85	58	7	5	4	−	7-8	9	1500	0	*
11·5	−4	NE	5	c	61	92	59	8	5	−	−	10	10	1500	0	3
13·0	0	NEE	4	c	59	92	56	7	5	−	−	10	10	1500	0	3
12·1	−6	NE	3	c	60	85	53	8	5	−	−	10	10	2500	0	*
13·9	−2	NE	3	c	56	85	53	8	5	−	−	9+	9+	3000	0	*
13·0	−8	ENE	4	2o	54	85	50	5	5	7	−	9	10	800	1	*
11·2	−12	NEE	4	c	57	85	52	8	5	3	−	9	9+	2700	0	*
11·5	−14	NEE	4	c	55	85	50	7	5	−	−	10	10	2500	1	*
08·6	0	NE	4	ro·o	57	92	55	6	5	2	−	7-8	10	1000	1	3
11·2	−6	NE	3	ir·o	55	92	53	7	5	−	−	10	10	1500	1	*
09·0	−6	NE	4	rr	58	85	56	7	5	−	−	10	10	2500	1	4
08·9	0	ENE	2	rr	57	92	55	6	−	2	−	4-6	10	3000	1	1
08·4	+2	N	2	c-bc	58	97	58	7	7	3	−	7-8	7-8	2500	1	4
08·5	+2	NE	2	c-bc	59	97	58	6	5	−	−	7-8	7-8	1800	1	3
11·2	0	NEN	3	C	56	92	54	8	5	2	−	4-6	9	2000	0	3
12·9	+2	ENE	3	2o	57	85	52	6	−	7	1	0	7-8	−	0	2
14·0	−2	−	0	c	55	85	50	6	5	−	−	10	10	2800	0	*
14·6	+2	E	2	c	55	85	49	7	5	−	−	9+	9+	1500	0	*
14·8	−4	NE	3	C	57	85	52	7	5	−	−	10	10	1500	0	2
16·5	−10	NNE	1	2o	54	85	50	6	5	−	−	10	10	1500		*
17·4	−2	NE	3	C	54	85	48	8	5	−	−	9+	9+	2500	0	3
16·3	−8	NE	3	C	52	85	48	8	5	2	−	7-8	10	2500	0	3
16·7	−6	−	0	C	54	75	45	7	5	−	−	9+	9+	2000	0	*
16·5	−2	E	2	C	53	85	47	7	5	−	−	9+	9+	2500	0	*
16·1	−2	NEE	2	0	45	92	46	6	5	−	−	10	10	900	0	*
14·9	−4	E	2	c	56	85	52	7	5	−	−	10	10	2000	0	3
16·0	−4	SSE	1	b	58	92	55	8	−	−	−	0	0	−	1	1
15·9	−6	−	0	b	57	85	53	9	−	−	1	0	1	−	0	1
17·0	−2	−	0	b-bc	46	92	44	8	−	−	4	0	2-3	−	1	*
17·4	−4	SE	1	C	52	85	46	8	5	−	−	10	10	2500	0	1
17·5	−6	SE	1	C	52	85	47	8	5	−	−	9+	9+	2000	0	*
17·7	0	NE'N	3	C	53	85	50	8	5	−	−	9+	9+	2500	0	*
14·1	+2	ENE	3	b	59	85	54	6	−	5	−	0	1	−	0	3
15·2	0	E'N	2	b	57	85	52	8	−	−	−	0	0	−	0	1
15·2	+4	E'N	2	2o	54	85	51	6	5	−	−	9+	9+	1500	1	*
12·9	+2	ESE	1	C	57	92	54	7	5	2	−	7-8	10	1500	0	*
12·2	+8	−	0	C	59	85	54	7	−	7	3	0	9	−	0	2
11·6	+2	NE	4	C	59	85	54	7	5	−	−	9+	9+	1500	1	4

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 18th Hrs. (38)
69	56	54	0·3	−	0·7
69	57	56	0·1	Tr	1·8
69	55	54	0·6	0·1	1·6
68	53	54	−	2	0·8
73	55	56	0·4	15	*
67	57	55	−	−	6·4
66	58	56	−	Tr	3·3
66	57	54	−	−	1·4
65	58	57	−	Tr	1·0
62	57	55	−	−	5·6
69	54	53	−	−	4·2
63	54	53	Tr	−	2·9
61	53	50	0·5	Tr	0·0
64	53	47	0·1	0·3	*
61	53	53	1	−	0·0
67	56	56	−	0·2	1·0
66	54	52	Tr	0·4	0·4
62	55	*	−	6	*
65	56	49	−	3	0·0
64	56	*	Tr	1	0·7
69	57	*	−	Tr	1·4
63	49	*	−	−	0·0
65	54	52	−	Tr	*
65	53	47	−	Tr	0·1
67	53	53	−	−	*
61	54	*	−	−	0·4
64	*	53	−	−	4·4
59	54	52	−	−	*
58	51	*	−	−	*
60	47	41	−	−	7·7
67	44	35	−	Tr	12·0
65	45	48	−	−	11·2
65	55	*	−	−	12·4
68	51	41	−	−	15·2
65	49	39	−	−	16·0
73	41	31	−	−	18·6
58	46	41	−	−	12·8
57	50	45	−	−	*
59	51	46	−	−	10·0
68	57	*	−	−	*
62	51	*	−	−	14·3
61	49	44	−	−	7·2
60	55	53	Tr	0·4	0·3
70	55	52	0·2	Tr	*
60	57	*	2	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 18th July — III	$C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 19th July — $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. — $C_L C_M$	wwVhN$_h$	DDFWN
109	14	01851	08313	03	01890	07214	53	01743	18152
115	54	01961	12414	54	01961	08414	54	01962	08214
203									
206	50	01951	08403	50	01961	10402	5-	02847	24127
210	03	02980	08418	03	01990	07413	03	02990	08215
219	00	01990	26202	00	01990	04302	00	00990	06100
280	10	01951	20113	13	01961	21112	04	01980	00001
245	70	02962	05115	70	00862	12112	54	02753	24117
260				50	01861	04401	5-	02756	06226
278	00	01890	10415	00	01890	28224	00	00890	14300
279	10	05661	06613	00	05630	06513	5-	05656	06326
285									
286	53	02766	08226	52	02756	02328	5-	02748	02258
575	10	01762	10314	53	05661	08315	07	05630	00011
301	53	05663	10424	03	05690	08414	57	05653	08314
321	5-	02857	06327	5-	02958	06428	5-	02748	04228
299	5-	03748	04228	5-	03748	04228	5-	03748	02228
322	5-	02855	06225	5-	02847	05317	5-	02848	02228
310									
6145	-	02757	08328				52	51646	04328

13h. G.M.T. 18th July — III	$C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 19th July — $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. — $C_L C_M$	wwVhN$_h$	DDFWN
382	00	02790	32460	59	62673	06360	07	05690	52502
334									
340	53	02764	08467	57	02764	06328			
136	5-	02857	09327	5-	02947	05327	5-	02856	04226
336									
850	53	02754	06426	57	61873	05368	03	02790	04265
365	77	05654	07417	5-	05658	06428	51	05654	12318
379	17	22752	39688	57	61654	06368	57	02754	06428
390	57	02753	06327	52	02764	06328	05	02780	06216
382							57	02755	06328
438	57	02653	04514	57	02753	04515	57	01767	02617
430	54	02864	06427	56	02763	04328	5-	61845	03365
405	52	05745	12327	59	05651	12328	59	05664	00028

07h. G.M.T.	$C_L C_M$	wwVhN$_h$	DDFWN
	03	04690	04425
	--	03647	08128
	57	05655	02127
	57	02847	03328
	57	02754	08328
	57	02744	04428
	57	22664	02368
	57	05646	04427
	5-	02780	06216
	5-	05647	02428
	5-	02747	07227
	8-	25658	04388
	57	62444	04268
	09	62630	05168

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 19th July, 1943
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—22h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew ...	c2ocy	cyroc	cmo
Croydon ...	c	c	cmom.
Greenwich ...	c	c0cp	c
Camden Square	c	c	*
Kensington ...	cbc	cpc	*
Hampstead ...	bcp	bcp	0

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 4-7h 19th Min. Time 0·1 Rest of period

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	69	56	54	0·3	−	0·7	*	*
Croydon ...	69	57	56	0·1	Tr	1·8	*	*
Greenwich ...	69	55	51	Tr	−	3·0	88	72
Westminster ...	69	57	55	0·1			71	75
Regents Park ...	70	56	53	−	Tr		57	77
Camden Square ...	70	55	52	−	Tr		*	* 77
Kensington ...	71	56	53	Tr	Tr		80	83
Hampstead ...	66	53	49	Tr	Tr			* 82

SECRET

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday, 20th July 1943

No. 29825

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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	09·8	-6	ENE	4	c	68	55	52	8	8	5	8	7-8	9	2500
	Croydon	10·5	-2	NE	4	c	69	55	54	7	4	3	-	9	9+	3500
	S. Farnborough	09·2	-4	ENE	3	zo	66	65	54	6	7	7	-	2-3	9+	2500
	Boscombe Down	09·2	-6	NE'E	3	rro	64	75	57	7	5	2	-	4-6	10	1200
	Thorney Island	08·7	+2	NE	3	rr	65	85	60	7	6	-	-	4-6	10	2500
	Lympne	09·5	-2	NE	5	c	65	75	57	7	1	7	7	4-6	10	1200
	Manston	09·6	-8	ENE	5	c	65	85	59	7	5	3	-	7-8	9+	1000
2	Shoeburyness	10·8	-6	NE	5	c-bc	66	75	57	7	8	7	-	7-8	7-8	1500
	Felixstowe	11·4	+2	NE	5	c	63	85	58	8	5	3	-	7-8	9	2000
	Gorleston	13·1	+4	NE'N	4	c	59	85	55	7	5	-	-	10	10	1000
	Mildenhall	11·7	0	NE	3	c-bc	68	65	54	8	1	7	-	4-6	7-8	2500
	Cranwell	13·4	0	NE'E	4	c	61	75	55	8	5	-	-	10	10	2500
3	Birmingham	11·8	-2	ENE	4	c	62	75	54	7	5	-	-	9+	9+	2500
	Upper Heyford	10·7	-6	ENE	5	zo	67	65	54	6	5	-	9	4-6	9	1800
4	Ross-on-Wye	10·7	-8	ENE	4	c	64	75	54	7	5	-	9	7-8	9	3000
5	Hartland Point	09·0	-6	NE'E	3	ir	57	92	55	6	6	2	-	7-8	10	800
	Bristol	09·7	-10	NE	3	c	63	75	57	7	5	7	-	7-8	9+	2000
	Portland Bill	07·9	-6	NE	4	rr	58	85	53	7	5	-	-	10	10	2500
	Plymouth	08·7	-4	NNE	2	rr	58	92	56	6	5	2	-	9+	10	1000
	The Lizard	08·5	0	NE	2	rr	57	97	47	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	09·0	+2	NE'N	3	dd	58	97	57	5	5	-	-	10	10	400
	Guernsey															
6	Pembroke	11·7	0	-	0	c	61	85	55	8	5	-	-	9+	9+	2000
7	Holyhead (Valley)	12·8	0	ENE	5	zo	64	75	55	6	1	3	1	2-3	2-3	3000
	Chester (Sealand)	13·1	-4	E'N	1	c	62	65	51	6	5	-	-	10	10	3200
8	Manchester	13·6	-6	SE	3	zo	63	65	51	6	5	-	-	9+	9+	2500
10	Spurn Head	14·5	-2	NE'N	4	c	61	75	52	7	7	-	-	9+	9+	2500
	Catterick (Sc)	15·3	-6	NNE	2	zo	59	75	51	6	5	-	-	10	10	2500
	Tynemouth	17·2	-4	NE	3	c	57	75	47	8	5	-	-	9+	9+	2500
11	St. Abbs Head	16·2	0	N	1	bc	56	75	46	8	1	4	-	2-3	4-6	2500
	Leuchars	16·4	-8	SE	1	b	62	65	48	8	-	-	-	0	0	-
12	Renfrew (Abbots I.)	15·2	-10	ENE	2	b	67	55	50	8	-	-	1	0	Tr	-
	Eskdalemuir	14·4	-18	NE'N	3	b	63	75	53	8	1	-	-	Tr	Tr	2700
	Point of Ayre	15·1	0	E'N	3	bc	60	75	53	7	5	-	-	4-6	4-6	4000
13A	Tiree	16·4	+4	WSW	1	b	63	97	62	9	-	3	-	0	Tr	-
13B	Stornoway	16·1	+2	NE	1	b-bc	61	85	57	9	1	-	5	Tr	2-3	4000
15	Dalwhinnie	16·4	+2	-	0	b	73	35	46	8	1	-	-	Tr	Tr	4000
	Aberdeen	17·1	-2	E	2	b	57	75	47	8	5	-	8	Tr	1	2500
	Wick	17·4	+2	NE	2	c	55	85	50	9	5	-	-	9+	9+	1000
16	Sumburgh	17·2	0	NE	5	bc	56	85	52	8	5	-	-	4-6	4-6	2000
17	Blacksod Point	14·4	0	NNE	2	bc	69	65	57	7	5	-	-	4-6	4-6	4000
18	Malin Head	15·5	-2	ESE	2	b	58	85	54	8	-	-	-	0	0	-
	Aldergrove	15·0	-10	E'S	2	b-bc	64	75	54	7	7	-	-	2-3	2-3	3000
19	Birr Castle	13·5	+4	ESE	2	c	62	75	54	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	12·1	-2	NE'E	4	c-bc	69	75	61	7	7	4	3	2-3	7-8	2500
	Roches Point	12·2	+2	E	3	c/r	61	85	57	7	5	7	-	4-6	9+	1500

OBSERVATIONS at 18h. G.M.T. 19th July — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 19th (39)	Weather 13h.–18h. 19th (40)	Weather 18h. 19th to 1h. 20th (41)	Weather 1h.–7h. 20th (42)
London (Kew)	09·4	-6	ENE	4	zo	67	65	53	6	5	7	-	7-8	9+	2500	0	*	czocy	czoy	czoyc	cmo
Croydon	10·6	0	NE	3	fofo	63	75	56	8	5	7	-	4-6	10	4000	0	*	czoccy	cycciro	ccmocirmo	cromcm
S. Farnborough	09·2	-2	E'S	3	fofo	65	65	55	7	5	2	-	7-8	10	3000	1	*	cm	ccmofo	crozoc	eiromoc
Boscombe Down	09·2	-6	E'N	2	ifo	65	65	54	7	5	2	-	7-8	10	3000	1	*	ccircrorm	cromormoc	cromoiroc	eiromoc
Thorney Island	08·9	0	NE	3	fofo	61	92	60	7	6	2	-	4-6	10	2500	1	*	crr	crrmofofo	cir	cdodcmo
Lympne	09·5	-2	NE'N	4	fofo	60	92	58	6	5	2	-	2-3	10	3500	1	4	cmobcc	ccirocrrofo	cmoiromo	cmo
Manston	09·7	-2	NE	4	c	60	85	56	7	5	-	-	10	10	2500	0	*	cmoirc	c	ciro	roroc
Shoeburyness	11·1	-2	NNE	5	c	61	85	55	7	5	7	-	2-3	9	1500	0	*	cpfoc	cbcc	bcc	c
Felixstowe	11·1	-2	NNE	4	c	61	85	57	8	1	3	-	1	9	2000	0	4	cc	cbcc	c	c
Gorleston	12·7	-6	NE'N	4	c	60	85	55	7	5	-	-	9+	9+	1100	0	4	c	c	c	c
Mildenhall	11·6	-2	NE'N	4	bc	64	85	52	8	1	3	-	2-3	4-6	2500	0	*	c	bccybcybc	bccbcc	cmoc
Cranwell	13·4	+2	ENE	3	c	58	85	53	8	5	-	-	10	10	2000	0	*	c	c	c	ccddmo
Birmingham	11·3	-2	ENE	4	cbc	64	55	49	8	5	-	6	4-6	7-8	2500	1	*	c	cbc	bc	bcom
Upper Heyford	09·9	-4	ENE	5	bc	66	65	55	7	5	3	9	1	4-6	2500	0	*	c	cbc	cmo	cmoc
Ross-on-Wye	10·1	-10	NE'E	4	bc	67	65	54	7	7	4	-	4-6	4-6	3500	0	*	cc	ccbc	bcc	c
Hartland Point	08·9	+2	NE	3	fofo	60	97	59	6	5	2	-	7-8	10	600	1	3	crrirc	cirrrc	roroc	ciro
Bristol	09·4	-6	NE	2	fofo	63	85	59	8	5	7	-	4-6	9+	4000	1	*	circcmoc	ccrofo	cirocc	ccidoccmo
Portland Bill	07·7	-2	ENE	4	o	61	85	58	7	5	-	-	10	10	2500	1	4	orr	orr	o	oc
Plymouth	07·7	+2	NE	4	fofo	61	92	59	6	6	2	-	7-8	10	5000	1	2	crrmo	cmoir	cmoomoc	cmoc
The Lizard	07·2	-8	N	3	fofo	58	97	53	5	5	-	-	10	10	800	1	3	cidrr	orr	odrrc	cir
Scilly (St. Mary's)	08·2	-6	N'E	6	fofo	56	97	55	6	5	-	-	10	10	800	1	4	codd	odq crofo	ororoc	cir
Guernsey																					
Pembroke	10·2	-4	N	4	c	61	92	58	7	8	7	-	4-6	9+	2300	0	2	c	c	cmoc	c
Holyhead (Valley)	12·5	-2	NNE	4	zo	62	85	56	6	-	-	-	0	0	-	0	2	bcmb	bzo	bmo	cmow
Chester (Sealand)	12·2	-2	E'N	2	bc	67	65	53	6	5	-	-	4-6	4-6	3500	0	*	mozc	cbc	bcbzomo	cffmoro
Manchester	12·9	-2	SE'E	3	zo	65	65	52	6	5	-	-	4-6	4-6	3000	0	*	c	bczoybzo	bcbzbmo	cmoiro
Spurn Head	14·5	-2	NNE	4	c	56	85	50	8	5	2	-	7-8	10	1500	0	3	c	c	c	idoc
Catterick (Sc)	15·0	-2	NNE	3	zo	58	75	50	5	5	-	-	2-3	2-3	5000	0	*	ezo	czo	cmo	cmoc
Tynemouth	16·7	-2	NE	2	c	56	75	49	8	5	-	-	9+	9+	2500	0	2	c	c	cbcc	c
St. Abbs Head	15·2	-6	NNE	1	b	55	85	51	8	1	-	-	1	1	4500	0	2	cbc	bcb	bbcc	c
Leuchars	16·0	-2	E	3	b	57	75	48	8	-	-	-	0	0	-	0	*	cbcb	b	bc	idoOidomoc
Renfrew (Abbots I.)	14·2	+2	ENE	3	b	69	45	45	8	-	-	-	0	0	-	0	*	cwbczbzo	by	bybwbmow	cmowc,iro
Eskdalemuir	14·0	0	NE'E	3	b	64	65	53	7	-	6	2	0	Tr	-	0	*	obcbcb	b	bbc	bccmo
Point of Ayre	14·0	-4	NW'W	1	b	62	85	57	8	-	8	-	0	Tr	-	0	1	cbc	bcb	b	b
Tiree	15·4	-4	N	2	b	63	85	57	9	-	-	-	0	0	-	0	1	b	b	b	b
Stornoway	16·1	-2	NNE	4	b-bcjf	58	85	53	8	-	-	8	0	2-3	-	0	1	bwb	bcbc	bjfbcjfbc	bF
Dalwhinnie	15·8	0	NE	2	b	69	45	47	8	-	-	-	0	0	-	0	*	by	by		
Aberdeen	16·3	-10	E	2	b-bc	57	85	51	8	7	-	8	2-3	2-3	1500	0	1	cbcb	b	bbcc	c
Wick	17·2	-2	ESE	1	bc	54	75	48	8	5	-	-	4-6	4-6	1000	0	*	c	cbc	bcc	cidodddo
Sumburgh	16·8	-6	NE	5	b-bc	55	85	52	8	5	-	1	1	2-3	2000	0	2	bc	bc	bcc	bc
Blacksod Point	14·4	-2	N	4	b-bc	63	75	55	8	-	4	2	0	2-3	-	0	3	bc	bc	b	b
Malin Head	15·1	-2	NNE	1	b	58	65	55	8	-	-	-	0	0	-	0	1	b	b	b	b
Aldergrove	14·6	-2	SE'E	1	zo	64	65	53	6	-	-	-	0	0	-	0	*	cmobcmob	bbyb	bmo	bfgmowbmo
Birr Castle	13·4	0	ESE	2	c-bc	62	65	50	8	7	-	3	4-6	7-8	2500	0	*	c	c		b
Valentia Obsy.	12·4	+2	NE'E	3	c-bc	60	75	52	7	7	-	-	7-8	7-8	4000	0	3	bc	bc	bc	b
Roches Point	12·0	-2	ESE	3	c-bc	60	85	56	7	5	3	-	4-6	7-8	1500	1	3	r	r	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 20th July

Districts	Forecast
1 S.E. England	Moderate northeast wind, fresh locally. Mainly cloudy; local thundery rain; local coast fog: cool.
2 E. England; 3 E. Midlands; 4 W. Midlands	Moderate northeast wind; mainly cloudy, perhaps local thundery rain: cool.
5 S.W. England	As 1
6 South Wales; 7 North Wales; 8 N.W. England	Light or moderate northeast wind; bright intervals: rather warm.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Light or moderate northeast wind; mainly cloudy; cool.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland	Light or moderate northeast wind; fair: warm.
15 N.E. Scotland	As 9-11
16 Orkneys and Shetlands	As 9-11
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 12-14

GENERAL INFERENCE

An anticyclone centred off Southeast Iceland is moving east. There will be local thundery rain in the extreme South and mainly cloudy conditions in eastern districts and the Midlands, but weather will be fair in the West and Northwest.

FURTHER OUTLOOK

Similar.

Forecasts issued at 1300

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Tuesday 20th July 1943.

HIGH

LOW

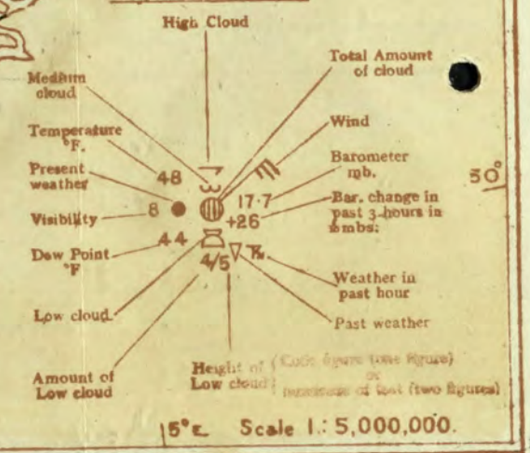
1020 1018 1016 1014 1012 1016 1008

10° 5°W. 0° 5°E 10°

60° 55° 50°

Mb. In.

STATION MODEL



15°E Scale 1.: 5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Tuesday 20th July.

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday, 20th July 1943 — No. 29825

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	58	*	*	*	*	*	*	*	*	*
	Croydon ...	290	11·8	+2	NE'E	4	fr₀	57	85	53	6	5	7	-	4-6	9+	1800
	S. Farnborough	226	10·8	+6	NE	2	c	58	85	53	7	5	7	-	2-3	9+	2500
	Boscombe Down	417	10·7	+6	NE	3	fr₀	56	92	53	6	-	9	-	0	10	-
	Thorney Island	10	09·3	0	NE	4	c	59	85	55	7	5	7	-	4-6	10	2500
	Lympne ..	283	10·2	+2	NE	5	c₀	58	97	56	6	5	2	-	7-8	10	600
	Manston ...	154	10·5	+4	NE'N	3	fr₀	59	85	56	7	5	2	-	9+	10	700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	11·7	+2	NNE	2	c	56	92	52	7	5	-	-	10	10	1000
	Gorleston ...	5	12·3	-2	N'E	4	c	57	92	54	7	5	-	-	9+	9+	1500
	Mildenhall ...	15	12·3	+2	NE'N	3	c₀	55	92	53	6	5	-	-	7-8	10	800
	Cranwell ...	203	14·3	-4	NE'N	3	c	54	92	52	7	5	-	-	9+	9+	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	12·2	+4	NE'N	4	c₀	54	92	51	6	5	-	-	10	10	300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09·2	-4	NE	3	c/r	59	92	57	6	5	2	-	7-8	10	800
	Bristol ...	209	11·4	+6	NE	4	c	56	92	53	7	5	3	-	4-6	9	1100
	Portland Bill ...	32	08·4	+8	NE	4	0	61	85	58	7	5	-	-	10	10	2500
	Plymouth ...	86	08·5	-2	ENE	3	c₀	62	85	57	6	5	2	-	4-6	10	2500
	The Lizard ...	240	07·5	0	NNE	4	o/r	58	97	56	7	5	-	-	10	10	800
	Scilly (St. Mary's)	163	08·5	0	NNE	4	o/r	58	97	57	6	5	-	-	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	11·0	0	NE'N	3	c-bc	59	85	55	8	8	6	-	4-6	7-8	2500
7	Holyhead (Valley)	32	13·5	+6	NNE	2	c₀	56	92	54	6	-	-	-	0	0	-
	Chester (Sealand)	16	13·9	+2	-	0	m	49	92	48	4	-	-	-	0	0	-
8	Manchester ...	230	13·5	-2	ENE	3	c₀	56	85	51	6	-	3	-	0	3	-
10	Spurn Head ...	29	14·4	-4	N	4	c	56	85	52	7	7	2	-	4-6	10	1500
	Catterick (Sc)...	192	15·7	-2	N	2	c₀	50	92	49	6	5	3	-	4-6	7-8	3000
	Tynemouth ...	108	16·7	0	N	2	c-bc	52	85	48	7	5	-	-	7-8	7-8	2500
11	St. Abbs Head	280	16·2	+2	N	3	c	53	85	49	7	5	-	-	9+	9+	2500
	Leuchars ...	36	17·1	-2	-	0	id₀	54	92	52	5	5	-	-	10	10	500
12	Renfrew (Abbotsl.)	19	16·8	+6	ENE	2	c₀	51	92	49	6	5	-	-	Tr	Tr	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	14·7	+2	-	0	b	55	97	55	7	-	-	-	0	0	-
13A	Tiree	44	16·4	-6	-	0	b	54	92	54	9	-	-	-	0	0	-
13B	Stornoway ...	12	17·7	0	N	3	c-bc	52	92	52	7	5	-	-	7-8	7-8	600
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	17·2	0	NNW	2	d.d₀	51	97	51	5	5	-	-	10	10	400
	Wick ...	114	17·9	0	ENE	1	c	51	92	50	8	5	-	-	10	10	700
16	Sumburgh ..	19	17·9	+2	NE	3	c	51	92	49	8	5	-	-	9	9	1500
17	Blacksod Point	18	15·6	+2	NE	4	b	58	92	56	7	-	-	-	0	0	-
18	Malin Head ...	84	16·1	0	S	1	b	53	85	49	8	-	-	-	0	0	-
	Aldergrove ...	268	15·8	+2	-	0	bf$_g$	50	97	48	5	5	4	-	Tr	1	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·9	+2	NE	3	b	56	85	52	7	1	4	-	Tr	1	2500
	Roches Point	22	13·1	0	N'E	2	b	55	97	55	7	5	-	-	1	1	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	11·2	-2	NE	3	c₀	57	85	50	6	5	-	-	9+	9+	2500	0	*
	Croydon ...	11·8	0	NNE	3	c₀	57	85	51	6	5	1	-	9+	10	1000	0	*
	S. Farnborough	11·0	0	NE'E	3	c	56	85	52	7	5	7	-	9	10	1500	0	*
	Boscombe Down	10·5	0	NE	3	c	55	85	51	7	6	7	-	2-3	9+	1400	0	*
	Thorney Island	09·2	-2	NE	4	c	58	85	52	7	7	7	8	1	10	2500	1	*
	Lympne ..	09·6	-2	NNE	5	c₀	59	85	54	6	5	7	6	2-3	7-8	600	0	4
	Manston ...	09·8	-6	NEN	3	c	60	85	54	7	5	3	-	7-8	9+	1000	0	*
2	Shoeburyness ...	11·5	-4	NE	3	c	59	85	54	8	5	-	-	9+	9+	1500	0	*
	Felixstowe ...	11·1	-6	NNE	3	c	59	85	56	8	5	-	-	9+	9+	2500	0	3
	Gorleston ...	12·1	-2	NE	3	c	59	85	55	7	5	-	-	10	10	1200	0	3
	Mildenhall ...	12·5	-1	N'E	2	c	58	85	52	8	5	-	-	10	10	800	0	*
	Cranwell ...	13·7	0	N	3	dd	54	97	54	5	5	-	-	10	10	400	1	*
3	Birmingham ...	14·0	+2	NNE	3	m	53	85	49	4	5	-	-	10	10	800	1	*
	Upper Heyford	12·5	+2	NE	4	c	56	85	52	7	5	-	-	10	10	800	0	*
4	Ross-on-Wye	12·9	0	ENE	3	c	54	85	49	7	5	3	-	9	9+	2000	0	*
5	Hartland Point	09·3	-2	NE	3	c-bc	57	85	53	7	8	6	-	4-6	7-8	1100	1	3
	Bristol ...	12·0	+2	NE	3	c	55	85	51	7	5	-	-	9+	9+	1000	1	*
	Portland Bill ...	08·9	+6	NE	5	c	58	85	54	7	5	-	-	10	10	2500	1	4
	Plymouth ...	08·4	+4	ENE	3	c	60	85	56	8	5	7	-	7-8	10	1500	0	2
	The Lizard ...	07·6	+4	NNE	4	fr	58	97	58	6	5	-	-	10	10	800	1	3
	Scilly (St. Mary's)	08·9	+4	NEN	4	dd	58	97	57	6	5	2	-	3	10	500	1	3
	Guernsey ...																	
6	Pembroke ...	11·7	0	NEN	3	c-bc	58	85	54	7	5	7	2	2-3	7-8	2500	0	2
7	Holyhead (Valley)	14·3	+8	NNE	1	c₀	58	92	57	6	5	7	-	2-3	9+	3000	0	2
	Chester (Sealand)	14·1	+4	-	0	c/r	57	85	54	5	-	7	2	0	9+	-	0	*
8	Manchester ...	14·1	+8	NE	2	c/r	55	75	47	6	5	7	-	4-6	9+	4000	0	*
10	Spurn Head ...	13·9	0	N'E	4	c	56	97	55	7	5	7	-	7-8	9	1500	1	3
	Catterick (Sc)...	15·9	+2	NNE	3	c	53	92	50	7	5	-	-	10	10	1500	0	*
	Tynemouth ...	17·0	+2	N	4	c	55	85	50	8	8	-	-	9+	9+	1200	0	4
11	St. Abbs Head	16·6	0	N	3	c	51	97	50	7	5	-	-	10	10	1000	0	3
	Leuchars ...	17·5	+2	N'E	2	c	53	85	50	7	5	-	-	10	10	1000	0	*
12	Renfrew (Abbotsl.)	17·2	+2	ENE	2	c₀	54	92	52	6	5	-	-	10	10	1200	0	*
	Eskdalemuir ...	16·4	0	NNE	3	c₀	50	85	47	6	5	-	-	9+	9+	1200	0	*
	Point of Ayre...	14·1	0	E'N	4	b-bc	57	85	52	8	-	4	-	0	2-3	-	0	3
13A	Tiree	16·8	+8	-	0	b	60	85	55	9	-	-	-	0	0	-	1	1
13B	Stornoway ...	18·4	+2	NNE	4	c	55	85	49	7	5	-	-	9	9	600	0	3
15	Dalwhinnie ...	18·0	+2	NNE	2	f-	45	97	45	3	-	-	-	10	10	1150	1	*
	Aberdeen † ...	18·0	+4			c	53	85	49	8	5	-	-		10	800	0	1
	Wick ...	19·0	+8	NNE	3	c	53	92	50	8	5	-	-	10	10	900	0	*
16	Sumburgh ..	19·0	+6	NNE	3	c	52	85	49	8	5	-	-	4-6	10	1500	0	*
17	Blacksod Point	16·3	+6	NE'E	1	b	59	85	54	7	-	-	-	0	0	-	0	2
18	Malin Head ...	16·3	+2	-	0	bjf	56	92	54	6	-	-	-	0	0	-	0	0
	Aldergrove ...	16·0	+2	E's	2	c₀	58	75	51	6	-	4	-	0	Tr	-	0	*
19	Birr Castle ...	14·7	+6	NNE	1	b	55	85	50	8	-	-	-	0	0	-	0	*
20	Valentia Obsy.	14·4	+6	E'N	4	b	58	75	50	7	1	-	-	Tr	Tr	4000	0	2
	Roches Point	13·3	+8	N	3	b	55	92	53	7	-	-	1	0	1	-	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 19th Hrs. (38)
1	London (Kew)	70	55	55	-	-	0·8
	Croydon ...	72	56	55	Tr	Tr	1·7
	S. Farnborough	67	55	52	Tr	Tr	0·2
	Boscombe Down	65	54	54	0·5	0·2	0·0
	Thorney Island	65	56	55	3	0·4	*
	Lympne ..	67	56	54	1	2	2·5
	Manston ...	67	56	56	Tr	0·2	2·6
2	Shoeburyness ...	67	56	56	-	-	3·2
	Felixstowe ...	65	54	51	-	-	2·5
	Gorleston ...	61	57	55	-	-	0·7
	Mildenhall ...	73	54	51	-	-	8·1
	Cranwell ...	63	52	52	-	Tr	1·2
3	Birmingham ...	65	51	47	-	-	3·0
	Upper Heyford	70	52	48	-	-	*
4	Ross-on-Wye	68	53	53	-	-	2·4
5	Hartland Point	60	57	55	8	1	0·0
	Bristol ...	67	53	52	0·4	Tr	0·0
	Portland Bill ...	62	55	*	13	-	*
	Plymouth ...	62	57	51	18	0·5	0·0
	The Lizard ...	60	57	*	5	8	0·0
	Scilly (St. Mary's)	59	56	*	5	17	2·0
	Guernsey ...						
6	Pembroke ...	65	54	*	1	-	0·0
7	Holyhead (Valley)	66	55	49	-	-	*
	Chester (Sealand)	69	49	40	-	Tr	5·0
8	Manchester ...	68	53	45	-	Tr	*
10	Spurn Head ...	61	54	*	-	Tr	0·3
	Catterick (Sc)...	60	50	45	-	-	3·8
	Tynemouth ...	57	52	50	-	-	*
11	St. Abbs Head	58	50	*	-	-	*
	Leuchars ...	63	53	*	-	Tr	*
12	Renfrew (Abbotsl.)	73	49	41	-	Tr	11·8
	Eskdalemuir ...	68	46	39	-	-	8·7
	Point of Ayre...	64	52	*	-	-	5·5
13A	Tiree	66	51	41	-	-	13·5
13B	Stornoway ...	64	52	51	-	-	15·1
15	Dalwhinnie ...	75	35	28	-	-	12·7
	Aberdeen † ...	58	50	48	-	-	11·1
	Wick ...	56	47	45	-	-	*
16	Sumburgh ..	58	49	43	-	-	8·7
17	Blacksod Point	70	53	*	-	-	*
18	Malin Head ...	61	49		-	-	14·5
	Aldergrove ...	66	48	43	-	-	10·3
19	Birr Castle ...	63	46	42	-	-	3·7
20	Valentia Obsy.	70	54	49	-	-	6·5
	Roches Point	62	45		0·1	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 19th July ... 18h. G.M.T. | 01h. G.M.T. 20th July ... 07h. G.M.T.

III $C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN
109 54	02845	01326				5-	02845	01215	5-	02848	04228
115 54	02964	08524	54	01862	08414	52	09734	08427	52	09834	38427
203											
206 10	01961	10211	50	01951	08301	5-	02728	00028	5-	02838	04128
210 50	01852	04212	50	01853	08313	5-	02838	30128	5-	02848	32128
219 10	01962	26323	00	01890	30312	00	01890	32301	50	09841	06411
230 10	01961	20202	00	00990	22100	00	00990	00001	00	00990	00000
245 50	01751	10301	54	01841	08301	5-	05636	06228	53	01843	04223
260 00	00790	01210	00	00790	04300	00	05650	04100	5-	05658	04228
278 70	02854	30324	10	01851	27321	00	00890	22100	07	01890	00001
279			14-	01861	03403	04	01790	06202	55	02873	06415
285 5-	05646	08426							53	02854	28327
288 52	02856	04327	5-	05646	02226	57	05656	28228	5-	17648	01328
575 16	05763	06114	40	01764	12114	00	05690	00000	00	05790	00000
301 5-	01764	06324	10	01762	05413	50	05664	04214	57	05654	10126
321 5-	02758	06328	5-	02757	06227	53	05655	08228	57	05655	32228
290 5-	03758	04328	50	02755	32415	5-	02747	32427	5-	03748	32428
292 5-	02744	01327	50	17651	04221	53	17674	28226	57	17645	28427
310 --	02628	04428							--	01735	32315
614 7-	02767	04327	5-	02756	04326				5-	51568	02328

13h. G.M.T. 19th July ... 18h. G.M.T.			01h. G.M.T. 20th July ... 07h. G.M.T.					
III $C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN
388 03	05690	07415	10	05662	07302	00	05690	00000
334 --	02645	06216						
340 5-	05690	04426	77	02754	06425	03	08430	00000
336 5-	02857	04327	5-	02848	04428	5-	02847	02327
386 57	02756	08328	53	01753	08314			
360 53	02754	04427	53	01862	37414	5-	05628	35318
368 57	02654	32328	67	62690	06368	57	05654	08417
379 57	02755	06527	53	02753	06525	57	05636	02428
390 57	02754	06466	57	02753	06427	5-	05658	04228
382 73	02755	06325	57	02863	07226	53	02733	04326
438 8-	02657	04437	5-	02655	02568	8-	02655	02615
430 52	62654	05368	59	22664	02368	57	61764	37868
409 52	64624	02268	5-	64408	03468	52	61663	02368

01h. G.M.T. 20th July ... 07h. G.M.T.					
$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN
00	05690	00000	57	02874	28127
03	08430	00000	57	63463	32128
5-	02847	02327	5-	62408	03358
			53	01753	04314
5-	05628	35318	5-	51738	02328
57	05654	08417			
57	05636	02428			
5-	05658	04228	5-	05657	02427
53	02733	04326	53	02824	06326
8-	02655	02615	87	02754	02617
57	61764	37868	57	05642	02427
52	61663	02368	57	61624	03468

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ See disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 20th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather. Morning	Weather. Afternoon	Weather. Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	c 2o cy	c 2o y	cm₀	
Croydon ...	c 2o cy	cyc	c fr₀	er₀ m bc
Greenwich ...	c	c	c	
Camden Square	c	c	*	
Kensington ...	c bcc	bc	*	
Hampstead ...	bc	0	bc	

Kew 24 hours ended 7h. Sun Max. Time 0·1 7-8h 13th. Min. Time <0·1 Rest of period

Stations.	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 % Yesterday	Humidity. 9h % To-day
Kew ...	70	55	55	-	-	0·8	*	*
Croydon ...	72	56	55	Tr	Tr	1·7	*	*
Greenwich ...	69	55	54	-	-	0·5	59	67
Westminster ...	70	57	55	-	-		65	77
Regents Park ...	71	56	55	-	-		58	63
Camden Square ...	71	55	55	-	-	*	*	71
Kensington ...	71	56	54	-	-		67	73
Hampstead ...	69	53	51	-	-		*	72

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Wednesday 21st July 1943 — No. 29826

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	10·2	−6	NE'N	4	c	69	65	56	7	5	7	8	9	9+	2500
	Croydon ...	10·7	−6	NNE	3	c	71	55	55	7	5	–	–	7-8	9	3500
	S. Farnborough	10·0	−2	NE	4	c	68	65	55	8	7	7	6	4-6	9	3000
	Boscombe Down	10·4	+2	NE	4	c	62	75	55	7	5	7	–	9+	9+	1400
	Thorney Island	09·0	−2	NNE	4	Z_o	69	65	57	6	–	7	2	0	9+	–
	Lympne ...	09·4	−4	NE'N	6	c	64	75	55	9	5	7	3	2-3	9	2000
	Manston ...	09·6	−2	NE	5	c-bc	64	75	55	7	5	7	4	2-3	7-8	3000
2	Shoeburyness ...	11·3	0	NE	4	c	64	75	57	7	5	7	–	7-8	9	1500
	Felixstowe ...	11·2	+4	NE	4	c	64	85	60	8	5	–	–	10	10	1600
	Gorleston ...	12·0	0	NE	3	c	60	85	54	7	5	–	–	10	10	1100
	Mildenhall ...	12·1	−2	NE'N	3	c	63	85	57	8	5	–	–	10	10	1500
	Cranwell ...	13·5	+2	NE'N	3	c	60	75	53	7	5	–	–	10	10	2500
3	Birmingham ...	12·7	−6	NE	4	Z_o	62	75	54	5	5	–	–	10	10	2500
	Upper Heyford	11·4	−6	NE	4	Z_o	61	85	56	6	5	2	–	9+	10	1200
4	Ross-on-Wye	12·2	−6	NE	4	Z_o	63	75	55	5	5	–	–	9+	9+	1500
5	Hartland Point	10·3	+6	NE	3	c-bc	61	85	55	7	5	4	5	4-6	7-8	2000
	Bristol ...	11·5	0	NE	4	Z_o	63	75	56	6	5	–	–	10	10	1800
	Portland Bill ...	09·0	+6	NE	3	c	65	75	60	8	6	–	–	10	10	4000
	Plymouth ...	09·7	+4	ENE	2	c/r	66	75	55	8	5	7	–	4-6	10	4000
	The Lizard ...	09·6	+8	–	0	ir	60	92	58	7	5	–	–	10	10	1000
	Scilly (St. Mary's)	10·7	+12	NNE	4	c/pr	57	97	56	6	5	–	–	10	10	1000
	Guernsey ...															
6	Pembroke ...	11·7	−4	NNE	3	c	67	75	59	7	5	6	–	4-6	9+	2500
7	Holyhead (Valley)	14·2	+4	NE'N	3	Z_o	67	65	56	6	5	7	–	1	9	4000
	Chester (Sealand)	13·7	−4	ENE	3	bc	70	55	52	6	1	3	–	1	4-6	4000
8	Manchester ...	13·9	−6	ENE	4	Z_o	67	65	52	6	–	4	–	0	4-6	–
10	Spurn Head ...	14·5	+8	NNE	6	Z_o	59	85	55	6	5	–	–	10	10	1500
	Catterick (Sc.) ...	16·4	+2	NNE	3	Z_o	59	85	53	6	5	–	–	4-6	9+	1000
	Tynemouth ...	17·8	+4	N	4	c	57	85	52	7	5	–	–	9+	9+	1000
11	St. Abbs Head	17·8	+4	N'W	3	c	53	92	51	7	5	2	–	7-8	10	1500
	Leuchars ...	19·0	+8	E	1	c-bc	61	75	52	7	5	3	–	4-6	7-8	2000
12	Renfrew (Abbotsl.)	17·9	+6	ENE	3	bc	64	65	53	7	5	–	–	4-6	4-6	2500
	Eskdalemuir ...	17·2	+2	NE	3	c	59	75	52	8	5	3	–	7-8	9+	2200
	Point of Ayre ...	16·0	+4	ENE	2	bc	65	75	56	8	–	3	1	0	4-6	–
13A	Tiree	17·7	+2	N'E	2	b	64	85	57	9	–	–	–	0	0	–
13B	Stornoway ...	19·9	+4	NNE	5	b	57	85	52	8	5	–	–	Tr	Tr	1000
15	Dalwhinnie ...	19·0	+6	NE	3	b	64	65	52	7	1	–	–	Tr	Tr	4000
	Aberdeen ...	19·4	+10	N'W	3	c-bc	60	65	49	8	5	3	2	7-8	7-8	2000
	Wick ...	20·6	+10	NNE	2	c	55	85	49	8	5	–	–	10	10	1500
16	Sumburgh ...	20·8	+6	–	0	c	55	85	50	8	5	–	–	9	9	2500
17	Blacksod Point	17·5	+2	N	3	b	66	75	58	7	–	–	–	0	0	–
18	Malin Head ...	17·2	+4	N	1	b	61	85	56	8	–	–	–	0	0	–
	Aldergrove ...	16·2	+2	E	2	b	72	65	57	8	–	4	–	0	Tr	–
19	Birr Castle ...	14·9	+2	NNE	1	b	75	55	58	8	1	–	–	1	1	2500
20	Valentia Obsy.	15·2	+6	NE'E	4	b	70	65	58	7	1	–	1	1	1	2500
	Roches Point	14·2	+6	E	3	bc	70	65	58	8	1	3	5	1	4-6	4000

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	10·1	+4	NNE	3	c	68	65	55	7	8	7	4	4-6	9	1500	0	•
	Croydon ...	10·5	+2	NNE	3	c	69	65	57	8	1	7	–	4-6	9+	2500	0	•
	S. Farnborough	09·9	+2	NE'N	3	c	67	75	58	7	5	7	6	4-6	9+	3000	0	•
	Boscombe Down	10·7	+6	NE	4	c	63	75	57	7	5	7	–	4-6	10	1800	0	•
	Thorney Island	09·3	+6	NE'N	1	rr	65	92	62	7	6	2	–	4-6	10	1500	1	•
	Lympne ...	08·8	−4	NNE	5	c	61	85	57	8	5	9	–	1	10	1500	0	4
	Manston ...	09·0	−2	NNE	5	c	62	85	57	7	5	7	–	2-3	9+	3500	0	•
2	Shoeburyness ...	10·9	0	NNE	5	c-bc	66	75	57	7	–	9	–	0	7-8	–	0	•
	Felixstowe ...	10·5	−4	NE'N	4	c-bc	65	85	60	8	–	–	6	0	7-8	–	0	3
	Gorleston ...	11·8	−2	NE'N	4	c	62	85	58	7	5	–	–	9+	9+	1000	0	3
	Mildenhall ...	11·8	−2	NE	4	c-bc	64	75	56	8	5	–	1	7-8	7-8	1500	0	•
	Cranwell ...	14·0	+2	NNE	4	id.	58	92	57	6	5	–	–	10	10	300	1	•
3	Birmingham ...	13·3	+4	NE	5	Z_o	62	85	57	6	5	–	–	10	10	1500	1	•
	Upper Heyford	11·7	0	NE	4	id.	60	92	57	6	5	–	–	10	10	600	0	•
4	Ross-on-Wye	12·1	0	NE	4	c	65	75	56	7	5	–	–	10	10	2000	0	•
5	Hartland Point	10·5	0	NE	3	c	62	85	58	6	5	6	–	9	9+	1100	1	3
	Bristol ...	11·7	0	NE	3	Z_o	64	85	58	6	5	–	–	10	10	2500	0	•
	Portland Bill ...	09·5	+2	NE	4	o	64	85	61	7	5	–	–	10	10	2500	1	4
	Plymouth ...	10·2	+6	ENE	3	c	65	75	57	7	5	3	–	4-6	9+	4000	0	2
	The Lizard ...	10·1	+6	N	2	c-bc	69	92	66	8	4	3	–	4-6	7-8	2500	1	3
	Scilly (St. Mary's)	11·1	+2	NNE	4	c-bc	62	85	58	7	5	4	5	4-6	7-8	1200	1	4
	Guernsey ...																	
6	Pembroke ...	12·3	−2	N	4	c-bc	66	85	63	7	5	6	–	4-6	7-8	2500	0	2
7	Holyhead (Valley)	14·7	+2	NE	3	b-bc	68	65	51	7	5	–	–	2-3	2-3	5000	0	1
	Chester (Sealand)	14·2	+8	E'N	3	c	68	65	51	6	5	7	–	7-8	9+	4000	0	•
8	Manchester ...	14·5	+4	ENE	4	Z_o	65	65	54	6	5	3	–	4-6	9	3000	0	•
10	Spurn Head ...	14·8	0	NNE	5	Z_o	57	97	57	5	5	–	–	10	10	800	0	3
	Catterick (Sc.) ...	17·2	+10	NNE	3	c	58	85	51	7	5	–	–	9+	9+	2500	0	•
	Tynemouth ...	18·0	0	N	4	c	56	85	53	7	6	–	–	9+	9+	1800	0	3
11	St. Abbs Head	18·8	+4	N	3	c	53	97	52	7	5	–	–	10	10	2000	0	3
	Leuchars ...	19·7	−2	E	3	bc	59	75	51	7	5	–	4	4-6	4-6	2000	0	•
12	Renfrew (Abbotsl.)	18·2	+4	E'N	3	bc	65	75	55	8	–	4	4	0	4-6	–	0	•
	Eskdalemuir ...	17·6	0	NE'N	4	b-bc	61	65	51	8	1	3	4	Tr	2-3	4500	0	•
	Point of Ayre ...	15·7	0	E'N	4	c-bc	62	85	57	8	–	3	–	0	7-8	–	0	3
13A	Tiree	18·3	+4	N	2	b	64	75	57	9	–	–	1	0	Tr	–	0	1
13B	Stornoway ...	21·0	+4	NE	6	b	56	85	50	6	5	–	–	Tr	Tr	1400	0	3
15	Dalwhinnie ...	20·0	+8	NE	4	b-bc	65	55	48	7	4	–	4	Tr	2-3	4000	0	•
	Aberdeen ...	20·4	+2	N	2	c	57	75	50	8	5	–	–	10	10	2000	0	3
	Wick ...	21·7	+6	NNE	3	c	55	85	50	8	5	–	–	10	10	1500	0	•
16	Sumburgh ...	21·7	+2	NE'N	4	c	54	85	50	8	5	–	–	9+	9+	2000	0	2
17	Blacksod Point	18·1	+2	NE	3	b	65	75	57	8	–	–	–	0	0	–	0	3
18	Malin Head ...	18·2	+6	ENE	2	b	60	85	55	8	–	–	–	0	0	–	0	1
	Aldergrove ...	16·3	+10	ENE	2	Z_o	67	65	54	6	–	4	1	0	Tr	–	0	•
19	Birr Castle ...	15·1	+2	NNE	1	b	74	55	57	8	1	–	–	1	1	2500	0	•
20	Valentia Obsy.	16·1	+8	NNE	3	b-bc	69	65	57	8	1	3	–	Tr	2-3	2500	0	2
	Roches Point	14·5	+2	–	0	c-bc	71	75	60	8	5	7	–	4-6	7-8	2500	1	2

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 20th (39)	Weather. 13h.–18h. 20th (40)	Weather. 18h. 20th to 1h. 21st (41)	Weather. 1h.–7h. 21st (42)
1	London (Kew)	cm$_o$c	c	cir$_o$R	rRir$_o$m$_o$
	Croydon ...	cm$_o$ccy	cyc	ccr$_o$r$_o$m$_o$	orrmcm
	S. Farnborough	c	c	ccr$_o$irrRm$_o$	cr$_o$rm$_o$
	Boscombe Down	c	c	crrRm$_o$c	cRm$_o$r$_o$c
	Thorney Island	c	cir$_o$crr	cm$_o$rrir$_o$	cm$_o$ir$_o$cm$_o$
	Lympne ...	cm$_o$cc	cvc	cid$_o$lm$_o$	cm$_o$om$_o$
	Manston ...	c	c	cir$_o$r$_o$cm$_o$	cm$_o$irr$_o$d$_o$
2	Shoeburyness ...	c	bcc	ccr	orrom$_o$
	Felixstowe ...	cbcc	cbcc	cir$_o$m$_o$	cr$_o$r$_o$m$_o$cm$_o$
	Gorleston ...	cod$_o$c	c	c	cbc
	Mildenhall ...	cid$_o$c	c	c	c
	Cranwell ...	cddm$_o$cid$_o$m$_o$c	cid$_o$	cid$_o$	cid$_o$mcd$_o$d$_o$
3	Birmingham ...	omir$_o$	c	oid$_o$	oid$_o$m
	Upper Heyford	cm$_o$	cid$_o$m$_o$c	cd$_o$d$_o$m$_o$	or$_o$r$_o$cm$_o$
4	Ross-on-Wye	cz$_o$	cz$_o$c	c	cpc
5	Hartland Point	c	c	cm$_o$	cir$_o$
	Bristol ...	cc	cz$_o$cm$_o$	ccir$_o$,bccir	cir$_o$rr
	Portland Bill ...	c	co	opr	o
	Plymouth ...	circ	cc	cr$_o$	cm$_o$c
	The Lizard ...	crrir	cirrc	cz$_o$r	cprc
	Scilly (St. Mary's)	coddcpbc	c	cbcc	c
	Guernsey ...				
6	Pembroke ...	c	c	bcc	c
7	Holyhead (Valley)	cm$_o$	bc	bcbm$_o$	bcm$_o$wc
	Chester (Sealand)	cm$_o$zcy	bc,cmzy	z$_o$m$_o$c	m$_o$c
8	Manchester ...	cz$_o$	bcz$_o$	bcz$_o$cm$_o$	cm$_o$
10	Spurn Head ...	om$_o$	om$_o$ d$_o$d$_o$	omd$_o$d$_o$	om$_o$
	Catterick (Sc.) ...	cm$_o$	cm$_o$c	cd$_o$d$_o$	cfd$_o$d$_o$
	Tynemouth ...	c	c	od$_o$d$_o$	oir$_o$d$_o$m
11	St. Abbs Head	c	c	cmF	Fd
	Leuchars ...	c	c	bcm$_o$c	c
12	Renfrew (Abbotsl.)	cm$_o$wid$_o$cm$_o$bcbbybc	c		cm$_o$ccm$_o$
	Eskdalemuir ...	cm$_o$c	cbc	bcc	cm$_o$
	Point of Ayre ...	bccbc	bbcc	cbcb	bbcebc
13A	Tiree	b	b	b	b
13B	Stornoway ...	cbcb	b	b	b
15	Dalwhinnie ...	Fb	b		bo
	Aberdeen ...	c	c	ccid$_o$	c
	Wick ...	c	c	c	cd$_o$d$_o$
16	Sumburgh ...	c	c	ccid$_o$	cid$_o$
17	Blacksod Point	b	b	bc	c
18	Malin Head ...	b	b	b	b
	Aldergrove ...	bmowbm$_o$by	bycz$_o$	bmzbcz$_o$bc	bcebcbbc
19	Birr Castle ...	b	b		c
20	Valentia Obsy.	b	bc	bc	bc
	Roches Point	bc	c	r	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 21st July, 1943.

Districts	Forecast
1 S.E. England 2 E. England .. 3 E. Midlands ...	Moderate northeast wind fresh locally; mainly cloudy; local thundery rain; local coast fog rather warm inland but cool near east coast.
4 W. Midlands	Moderate northeast wind; mainly cloudy; rather warm.
5 S.W. England	Light or moderate northeast wind; variable cloud; local thundery rain. rather warm.
6 South Wales 7 North Wales 8 N.W. England	Light or moderate northeast wind; fair; warm.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light or moderate northeast wind; cloudy; local drizzle; local coast fog; cool.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland	As 6-8.
14 Mid Scotland 15 N.E. Scotland	Light or moderate northeast wind; cloudy; cool.
16 Orkneys and Shetlands	As 14-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 6-8.

GENERAL INFERENCE

An anticyclone centred near Faeroes is moving slowly east and a ridge of high pressure is approaching West Ireland from the Atlantic. Depressions over North France are moving slowly east. Weather will be fair in the northwest and west but there will be much cloud in eastern districts and local thundery rains in the South.

FURTHER OUTLOOK

Similar.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Wednesday 21st July 1943.

HIGH

LOW

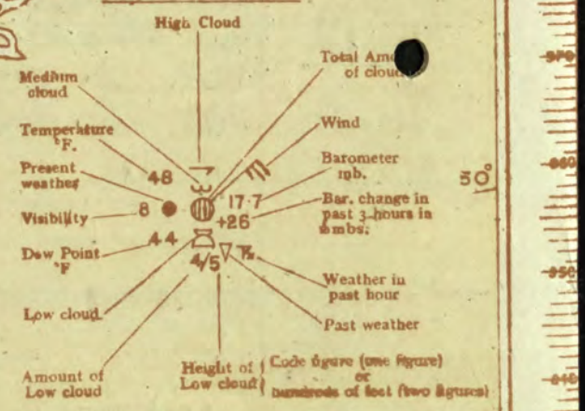
1026 1024 1022 1020 1018 1016 1014 1012

10° 5°W. 0° 5°E. 10°

60° 55° 50°

Mb 1030 1020 1010 1000 990 980 970 960 950 940

STATION MODEL



5°E. Scale 1.: 5,000,000.

Fs 520/4503 Wt 809/3453 Gp 948/2 7480 7/48

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Wednesday 21st July

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 21st July, 1943 — No. 29826

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	57	*	*	*	*	*	*	*	*	*
	Croydon ...	290	12·2	+8	N	3	rr	58	97	57	4	5	–	–	10	10	600
	S. Farnborough	226	11·8	+6	NE'N	2	r.r	57	97	56	6	5	–	–	10	10	500
	Boscombe Down	417	12·0	+2	NNE	3	RR	56	97	55	6	5	–	–	10	10	4000
	Thorney Island	10	11·0	+6	NNE	4	c/r	60	85	56	6	5	–	–	4-6	10	1600
	Lympne ..	283	08·5	0	NE'N	4	z_o	62	92	61	6	5	3	–	7-8	9+	900
	Manston ...	154	09·7	+2	NE'E	4	z_o	63	92	60	6	5	–	–	9+	9+	3500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	11·5	+4	NE'N	4	ir$_o$	63	85	58	6	5	2	–	7-8	10	6300
	Gorleston ...	5	12·5	+6	NE'N	5	c-bc	60	92	57	7	5	–	–	7-8	7-8	2500
	Mildenhall ...	15	13·4	+2	NE'N	3	c	59	85	55	7	5	–	–	10	10	1200
	Cranwell ...	203	15·9	+8	NE'N	4	id$_o$	56	97	55	4	5	–	–	10	10	600
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	13·1	+6	NNE	4	z_o	57	92	55	6	5	–	–	10	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	12·4	+6	NNE	4	z_o	61	92	58	6	5	–	–	9+	9+	1500
	Bristol	209	13·5	+8	NE	3	ir	59	92	57	6	5	–	–	10	10	1900
	Portland Bill ...	32	10·5	+4	N	4	pr	59	85	55	7	5	–	–	10	10	2500
	Plymouth ...	86	11·6	+6	ENE	3	r.r$_o$	60	92	58	6	5	7	–	7-8	10	1500
	The Lizard ...	240	11·3	+6	N	3	pr	61	92	58	5	5	2	–	10	10	1000
	Scilly (St.Mary's)	163	12·5	+6	N'E	3	c	59	92	57	6	5	–	–	9+	9+	1500
	Guernsey ...	175															
6	Pembroke ...	142	14·8	+10	NNE	3	c-bc	61	92	59	7	8	7	–	4-6	7-8	2500
7	Holyhead (Valley)	32	16·7	+10	ENE	3	z_o	57	92	56	6	–	4	–	0	1	–
	Chester (Sealand)	16	16·4	+2	–	0	c	58	85	54	5	5	–	–	10	10	1800
8	Manchester ...	230	16·6	+6	NE	4	z_o	56	85	53	6	5	–	–	9	9	1000
10	Spurn Head ...	29	17·1	+10	NE	4	$d_o d_o$	56	97	56	5	5	–	–	10	10	800
	Catterick (Sc)...	192	19·0	+8	NE	2	$d_o d_o$	55	97	55	4	5	–	–	10	10	400
	Tynemouth ...	108	19·2	0	N	5	$d_o d_o$	55	97	55	5	–	2	–	10	10	1500
11	St. Abbs Head	280	20·2	+2	N	3	dF	53	97	53	1	–	–	–	10	10	<150
	Leuchars ...	36	21·8	+8	E	1	c	54	85	50	7	5	–	–	9+	9+	1300
12	Renfrew (Abbots L.)	19	20·9	+4	ENE	3	z_o	56	85	51	6	5	–	–	10	10	1000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	18·0	+10	E'N	5	b	57	85	53	8	4	–	–	1	1	1800
13A	Tiree	44	19·7	+4	NNE	1	b	55	92	54	8	–	3	–	0	1	–
13B	Stornoway ...	12	23·1	+6	NE	4	b	54	82	51	7	5	–	–	Tr	Tr	1000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	22·4	-4	N	2	$d_o d_o$	52	97	52	6	5	–	–	10	10	1000
	Wick ...	114	23·8	+6	NE	3	c	52	85	48	8	5	–	–	10	10	1000
16	Sumburgh ..	19	23·1	+2	NE'N	3	id$_o$	53	97	52	6	5	–	–	10	10	400
17	Blacknod Point	18	19·5	+2	N	1	b-bc	59	92	57	7	5	–	–	2-3	2-3	2500
18	Malin Head ...	84	19·3	0	NE	7	z_o	53	97	52	6	–	–	–	0	0	–
	Aldergrove ...	268	19·2	+6	NE'N	3	b-bc	55	85	52	8	–	3	1	0	2-3	–
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	17·9	+2	SSE	1	b-bc	60	85	55	8	-	3	–	0	2-3	–
	Roches Point	22	16·3	+6	N	1	bc	61	85	56	8	5	3	–	2-3	4-6	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	13·0	+12	NNE	3	ir$_o$	61	92	58	6	5	–	–	10	10	1500	1	*
	Croydon ...	13·2	+12	NNE	2	ir$_o$	61	92	60	5	5	2	–	9	10	700	1	*
	S. Farnborough	12·8	+4	NE'N	3	z_o	60	92	58	6	5	–	–	10	10	500	1	*
	Boscombe Down	12·8	+10	NE	4	o/r	58	92	56	7	5	–	–	10	10	600	1	*
	Thorney Island	11·4	+12	NE'N	3	z_o	62	92	60	6	5	–	–	10	10	600	1	*
	Lympne ..	11·6	+12	NNE	3	z_o	63	92	61	6	5	2	–	9+	10	900	0	*
	Manston ...	11·4	+14	NE'N	3	r$_o$r$_o$	62	97	61	5	6	2	–	9+	10	600	1	*
2	Shoeburyness ...	12·7	+14	NE	5	z_o	61	97	61	5	5	–	–	10	10	800	1	*
	Felixstowe ...	12·7	+10	NNE	4	z_o	62	97	61	6	5	–	–	10	10	1500	1	3
	Gorleston ...	13·1	+2	NE	4	bc	61	92	57	7	–	7	–	0	4-6	–	0	4
	Mildenhall ...	14·4	+12	NE	4	c	61	85	57	7	5	–	–	9+	9+	800	0	*
	Cranwell ...	16·8	+10	NE	4	z_o	56	92	54	6	5	–	–	10	10	1000	1	*
3	Birmingham ...	16·7	+8	NE	4	m	56	92	54	4	6	–	–	10	10	800	1	*
	Upper Heyford	14·2	+14	NE'N	4	z_o	57	92	55	6	5	–	–	10	10	500	1	*
4	Ross-on-Wye	15·2	+8	NE'E	3	ir$_o$	58	85	54	6	5	–	–	10	10	2000	1	*
5	Hartland Point	13·3	+6	NE	3	ir$_o$	59	97	58	7	5	2	–	4-6	9+	2500	1	3
	Bristol	14·0	+6	NNE	3	o/r	57	97	56	6	5	–	–	10	10	600	1	*
	Portland Bill ...	12·1	+6	N	3	o	59	92	57	7	5	–	–	10	10	2500	1	4
	Plymouth ...	12·8	+8	ENE	4	c	61	85	56	8	5	7	–	7-8	10	2500	0	3
	The Lizard ...	12·4	+8	N	2	o	59	92	57	8	5	–	–	9+	9+	1500	1	4
	Scilly (St.Mary's)	14·2	+14	N'E	3	z_o	59	92	57	6	5	4	9	2-3	7-8	1200	1	3
	Guernsey ...																	
6	Pembroke ...	15·5	+8	N	3	c-bc	59	85	54	7	5	6	–	4-6	7-8	2000	0	2
7	Holyhead (Valley)	18·1	+10	NE'N	3	c	60	85	56	7	5	7	–	7-8	9+	1500	0	2
	Chester (Sealand)	17·8	+10	NE	1	c	60	85	56	5	5	–	–	7-8	10	1600	0	*
8	Manchester ...	17·6	+10	ENE	4	c	59	85	54	8	5	–	–	9+	9+	1200	0	*
10	Spurn Head ...	17·5	+4	NNE	5	0	57	92	55	6	5	–	–	10	10	1500	0	3
	Catterick (Sc)...	19·6	+6	NNE	2	df	56	97	56	3	5	–	–	10	10	300	1	*
	Tynemouth ...	20·6	+2	N	4	$d_o d_o$	56	92	54	4	–	2	–	10	10	500	1	3
11	St. Abbs Head	20·8	+6	N	3	dF	52	97	52	1	–	–	–	10	10	<150	1	4
	Leuchars ...	22·9	+6	NNE	2	c	55	85	50	7	5	7	–	4-6	10	1500	0	*
12	Renfrew (Abbots L.)	22·1	+8	ENE	2	z_o	55	85	52	6	5	–	–	7-8	10	800	0	*
	Eskdalemuir ...	20·9	+2	N'E	4	z_o	56	85	52	6	5	–	–	9	9	800	0	*
	Point of Ayre...	19·5	+10	E'N	4	c-bc	59	85	56	8	6	–	4	Tr	7-8	1000	0	4
13A	Tiree	21·8	+14	SSE	3	b	58	85	55	9	–	3	1	0	1	–	1	1
13B	Stornoway ...	23·5	+6	ENE	4	b-bc	55	85	49	8	5	–	–	2-3	2-3	1500	0	3
15	Dalwhinnie ...	23·0	+2	NNE	3	o	50	85	46	7	5	–	–	10	10	1500	0	*
	Aberdeen † ...	23·5	+10	N	3	c	52	85	48	8	5	–	–	10	10	1500	0	2
	Wick ...	24·2	+8	NNE	2	id$_o$	52	97	51	6	5	–	–	10	10	500	1	*
16	Sumburgh ..	23·8	+6	NNE	4	id$_o$	55	92	52	7	5	–	–	9+	9+	1200	1	2
17	Blacknod Point	20·7	+10	N'E	2	c	59	92	57	7	8	–	–	9+	9+	2500	0	2
18	Malin Head ...	20·9	+12	E	1	b	59	75	51	8	–	–	–	0	0	–	0	0
	Aldergrove ...	20·9	+10	ENE	1	c	55	85	51	7	5	3	–	7-8	9	2000	0	*
19	Birr Castle ...	19·3	+4	NNE	2	c	56	85	51	8	5	1	–	7-8	9+	2500	0	*
20	Valentia Obsy.	18·9	+6	–	0	b-bc	59	92	57	8	–	3	–	0	2-3	–	0	1
	Roches Point	17·6	+10	N	2	bc	60	85	55	8	5	–	5	1	4-6	2500	1	2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine (38)
1	London (Kew)	69	57	56	–	10	1·3
	Croydon ...	71	58	57	–	8	2·7
	S. Farnborough	71	56	56	–	8	4·1
	Boscombe Down	67	55	55	–	35	2·1
	Thorney Island	71	58	58	2	10	*
	Lympne ..	67	59	59	–	Tr	4·3
	Manston ...	65	61	59	–	1	3·1
2	Shoeburyness ...	69	59	59	–	4	7·2
	Felixstowe ...	68	58	57	–	5	8·2
	Gorleston ...	62	59	58	Tr	–	1·0
	Mildenhall ...	68	58	55	Tr	–	0·8
	Cranwell ...	61	55	55	1	Tr	0·0
3	Birmingham ...	56	55	54	0·5	0·1	0·3
	Upper Heyford	62	56	50	Tr	0·6	*
4	Ross-on-Wye	67	57	56	–	0·1	0·1
5	Hartland Point	62	59	57	–	0·1	0·9
	Bristol	66	56	51	–	10	0·2
	Portland Bill ...	65	55	*	–	8	*
	Plymouth ...	69	59	57	Tr	3	0·4
	The Lizard ...	69	58	*	3	1	1·0
	Scilly (St.Mary's)	62	59	*	2	Tr	1·3
	Guernsey ...						
6	Pembroke ...	70	66	*	–	–	5·4
7	Holyhead (Valley)	70	55	53	–	–	*
	Chester (Sealand)	73	58	55	–	–	3·1
8	Manchester ...	69	56	54	–	–	*
10	Spurn Head ...	62	55	*	0·3	0·3	0·2
	Catterick (Sc)...	63	55	51	–	1	1·6
	Tynemouth ...	57	55	51	Tr	1	*
11	St. Abbs Head	55	52	*	–	0·4	*
	Leuchars ...	62	53	48	–	–	8·0
12	Renfrew (Abbots L.)	69	54	37	0·1	Tr	8·0
	Eskdalemuir ...	66	51	47	–	–	7·2
	Point of Ayre...	66	56		–	–	5·6
13A	Tiree	66	51	43	–	–	15·4
13B	Stornoway ...	58	52	48	–	–	11·5
15	Dalwhinnie ...	65	46	41	–	–	11·1
	Aberdeen † ...	61	51	50	–	Tr	5·4
	Wick ...	56	51	51	–	–	*
16	Sumburgh ..	56	52	51	–	Tr	0·3
17	Blacknod Point	68	55	*	–	–	*
18	Malin Head ...	65	51		–	–	13·4
	Aldergrove ...	73	51	48	–	–	14·9
19	Birr Castle ...	75	53	49	–	–	12·3
20	Valentia Obsy.	72	53	54	–	Tr	13·7
	Roches Point	72	68		–	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 20th July ... 18h. G.M.T. — 01h. G.M.T. 21st July ... 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
109	5-	02847	03327	52	02845	04328	5-	02748	06328	5-	52648	02358
115	53	02844	08527	54	01962	08514	52	02844	08527	52	02844	08527
203				00	05890	04400	00	00890	08100	00	00890	08200
208	5-	02867	12327	5-	02748	06318	5-	02848	04228	5-	52858	02258
210	5-	02848	06128	5-	02858	05328	5-	51725	01258	5-	02855	03158
219	00	09890	06400	00	00890	06401	00	00890	05401	50	00841	06401
230	00	00990	28100	1-	01951	21102	00	01990	00001	50	01951	00001
245	55	01951	07413	54	01851	07412	5-	02836	04328	5-	02846	03256
260	5-	02753	04225	50	02863	04425	5-	05548	06428	5-	05648	04328
278	07	01790	30512	03	01790	28215	54	01863	14213	54	01852	32223
279	53	02874	06425	54	01872	04524	5-	02835	05527	5-	01847	06427
286	13	01854	02315							50	51625	04455
288	52	21536	04457	52	05645	01428	5-	52428	32458	5-	57318	01358
575	10	01861	00001	36	01890	32201	00	01890	00003	5-	05645	00027
301	53	05673	24326	54	01773	05324	04	05690	03113	5-	02745	08117
321	5-	02857	02427	5-	61858	03428	5-	05638	30368	5-	02738	04368
290	5-	02746	32426	5-	47338	32448	5-	57108	32448	5-	03738	04328
282	53	17644	62425	57	02846	31427	5-	02738	30228	5-	0X847	32357
316	--	01644	04514							--	48109	32449
614	52	02716	04328	5-	05648	03428	5-	51428	04458	5-	21438	04358

12h. G.M.T. 20th July ... 18h. G.M.T. — 01h. G.M.T. 21st July ... 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
888	23	05663	31326	03	05690	02315	03	05690	32213	53	05642	09115
334	--	05654	06115							--	03547	06128
340	57	05653	02226	50	05661	04421				5-	05645	32228
1365	5-	47308	02458	5-	51638	03358	5-	02528	04458	5-	05627	03427
386	53	02754	04316	53	02754	04317				52	05654	04328
850	57	02746	35428	5-	21628	02458	57	51636	02498	5-	52528	02558
368	54	05654	06415	57	05555	04418	52	61645	04428	52	62654	04468
379	57	05635	02628	5-	21526	04458	5-	51535	35548			
390	5-	05657	06327	53	05653	02325	57	61545	35468	5-	62527	32368
382	5-	02738	03328	5-	05636	05358	57	61745	04368	5-	62638	03368
438	57	02764	02517	9-	91548	02598	8-	02637	02527			
430	17	05651	04426	61	64634	02268	5-	05634	35528	50	21538	02358
409	57	02764	03367	53	02664	04325	53	05666	01318	57	05746	03318

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 21st July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	cm$_o$c	c	cir$_o$Rim$_o$	Kew hours 7h. Max. Time
Croydon ...	cm$_o$ccy	cyc	ccrr m ch	0·1 2-7h
Greenwich ...	c	c	cirtlir	M 21st
Camden Square	c	c	*	Sq·l Rest
Kensington ...	bcc	cbc	*	at Period.
Hampstead ...	bc	bc	or	

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	69	57	56	–	10	1·3	*	*
Croydon ...	71	58	57	–	8	2·7	*	*
Greenwich ...	71	57	56	–	11	5·0	60	85
Westminster ...	72	59	57	13			69	89
Regents Park ...	73	58	56	–	12		63	91
Camden Square ...	73	58	56	–	13	*	*	94
Kensington ...	71	58	56	–	13		67	93
Hampstead ...	69	55	53	–	12		*	97

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THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

SECRET

Thursday 22nd July 1943

No 298.27

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)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	14·9	+6	–	0	io	65	92	63	6	5	7	–	4-6	10	4000
	Croydon ...	15·6	+10	–	0	ro	64	97	63	4	5	2	–	7-8	10	900
	S. Farnborough	15·2	+8	NE	2	dr	63	97	62	6	5	–	–	10	10	1200
	Boscombe Down	15·7	+16	NE'N	3	ro	60	92	58	6	5	–	–	10	10	2000
	Thorney Island	14·6	+12	NE	3	ro	64	92	61	5	5	–	–	10	10	800
	Lympne ...	13·9	+8	NNE	2	ro	61	97	60	6	5	2	–	9+	10	500
	Manston ...	13·4	+6	NE	3	ro	61	97	60	5	6	2	–	9+	10	300
2	Shoeburyness ...	14·9	+10	NE	3	rr	61	92	60	5	5	–	–	10	10	800
	[illegible]stowe ...	14·3	0	NE'N	4	c	67	75	60	7	5	5	–	4-6	10	1600
	Gorleston ...	15·1	+8	NNE	6	c-bc	61	85	56	7	5	–	–	7-8	7-8	1000
	Mildenhall ...	16·1	+14	NE'N	5	c-bc	69	65	56	8	1	7	1	4-6	7-8	2500
	Cranwell ...	15·8	+8	NNE	3	c	62	75	55	7	5	–	–	10	10	1000
3	Birmingham ...	17·8	+4	NE	4	zo	65	65	53	6	5	–	2	4-6	7-8	1500
	Upper Heyford	15·6	0	NE	4	c-bc	73	55	57	7	1	7	6	2-3	7-8	2000
4	Ross-on-Wye	16·8	+4	NNE	3	zo	63	85	57	6	5	–	–	10	10	1000
5	Hartland Point	16·0	+10	NE	3	ro	59	97	59	6	5	2	–	9	10	800
	Bristol ...	17·0	+10	ENE	3	io	60	97	59	6	5	2	–	9	10	500
	Portland Bill ...	14·7	+12	NE	3	o	63	85	60	7	5	–	–	10	10	2500
	Plymouth ...	15·5	+10	NE'E	3	c	63	85	58	8	5	2	–	7-8	10	1200
	The Lizard ...	14·6	+4	NNE	2	c	62	92	60	7	5	–	–	10	10	1000
	Scilly (St. Mary's)	16·1	+10	NEN	4	io	61	85	58	6	5	–	–	10	10	800
	Guernsey ...															
6	Pembroke ...	17·2	+8	NNE	3	c-bc	70	75	62	7	2	4	1	2-3	7-8	2500
7	Holyhead (Valley)	19·3	+8	NE	4	c-bc	67	75	59	7	5	7	1	4-6	7-8	2500
	Chester (Sealand)	15·8	+2	NE	4	c-bc	70	65	57	6	5	–	2	2-3	7-8	3500
8	Manchester ...	18·7	+4	ENE	4	c-bc	69	65	57	7	5	3	–	4-6	7-8	1500
10	Spurn Head ...	19·0	+8	NNE	5	zo	57	92	56	5	5	–	–	10	10	400
	Catterick (Sc) ...	21·4	+14	NE	3	do do	58	97	57	5	–	2	–	10	10	600
	Tynemouth ...	22·4	+4	N	4	o	55	92	53	7	5	–	–	10	10	1500
11	St. Abbs Head	23·1	+8	N	4	c	54	85	50	7	5	–	–	10	10	1800
	Leuchars ...	23·3	+2	NE	3	c	61	65	51	7	5	3	–	4-6	9	1500
12	Renfrew (Abbots I.)	22·5	+2	E	3	zo	64	75	55	6	5	4	3	7-8	7-8	3000
	Eskdalemuir ...	22·3	+2	NNE	4	o/r	56	85	51	8	5	–	–	10	10	1200
	Point of Ayre ...	21·8	+14	E'N	3	b-bc	66	75	59	8	5	4	–	Tr	2-3	1600
13A	Tiree	22·9	+4	N	3	b	62	85	56	8	–	–	–	0	0	–
13B	Stornoway ...	24·5	+4	NE'E	4	c	57	75	50	8	5	–	–	9	9	1800
15	Dalwhinnie ...	24·0	+2	NNE	3	b	61	65	50	8	1	–	–	Tr	Tr	4000
	Aberdeen ...	23·9	+2	N	3	c	58	75	51	8	5	–	–	10	10	1800
	Wick ...	24·9	+2	NE	3	c	56	86	51	8	5	–	–	9+	9+	1500
16	Sumburgh ...	24·5	+6	NE'N	5	bc	57	75	50	8	5	–	–	4-6	4-6	2000
17	Blacksod Point	21·2	+2	NW	2	b	67	75	59	7	–	–	–	0	0	–
18	Malin Head ...	21·9	+4	E'S	3	b	59	85	54	8	–	–	–	0	0	–
	Aldergrove ...	22·0	+4	E'N	1	c	64	75	56	7	5	–	–	4-6	9+	2000
19	Birr Castle ...	20·5	+2	ESE	2	c	67	75	59	8	5	1	–	7-8	9	2500
20	Valentia Obsy.	19·5	+2	N	3	b	72	55	55	8	1	–	3	Tr	Tr	2500
	Roches Point	18·9	+2	ESE	3	bc	65	85	60	8	1	–	5	1	4-6	4000

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
16·3	+10	NNE	3	ro ro	63	85	58	6	5	2	–	7-8	10	1500	1	•
16·5	+2	N	2	ro ro	63	92	60	5	5	–	–	10	10	1000	1	•
16·3	+4	N	1	ro ro	61	92	59	6	5	–	–	10	10	1500	1	•
17·1	+12	NE'E	2	ro ro	62	85	57	6	–	2	–	0	10	–	1	•
17·1	+10	N	3	ro ro	63	92	60	7	5	7	–	4-6	10	5700	1	•
14·8	+10	N'E	4	RR	60	97	59	6	5	2	–	9+	10	200	1	2
14·4	+2	NNE	3	ir	60	97	59	5	6	2	–	9	10	700	1	•
15·5	+2	N	3	o/r	62	85	59	8	5	–	–	10	10	1500	1	•
15·5	+8	NE'N	4	c	62	97	60	7	5	2	–	7-8	10	2500	1	3
16·3	+12	NE'N	5	c	61	92	58	7	5	–	–	10	10	900	0	4
17·6	+6	N'E	4	c	64	75	56	8	5	1	1	9	9	1800	0	•
19·8	+4	NNE	3	c	59	85	55	7	5	–	–	10	10	600	0	•
18·8	+10	NE	4	c	66	65	54	8	5	7	–	9	9+	4000	1	•
17·2	+10	NE'E	5	c	67	65	55	8	5	7	8	2-3	9+	2500	0	•
17·5	+6	NE'E	4	c-bc	69	55	54	8	1	–	2	1	7-8	3000	0	•
17·3	+6	NE	2	zo	61	92	59	6	5	–	–	9+	10	1800	1	3
17·3	+6	NNE	3	c	68	75	58	8	7	–	8	Tr	9	2500	1	•
16·3	+6	NE	2	do do	63	85	60	7	5	–	–	10	10	2500	1	4
17·5	+12	NE	3	ro ro	63	92	60	6	5	2	–	9	10	1000	0	2
16·6	+10	NNE	3	c	65	85	61	8	5	1	–	7-8	10	1500	0	2
17·9	+14	N'E	3	zo	61	92	58	6	5	–	–	10	10	800	1	3
18·6	+4	–	0	bc	68	75	61	7	8	4	–	2-3	4-6	2500	0	2
20·0	0	ENE	3	zo	66	75	59	6	5	–	2	2-3	7-8	2500	0	•
19·2	+4	ENE	4	bc	68	65	56	6	–	–	2	0	4-6	–	0	•
19·8	+6	NE'N	4	zo	65	75	55	6	5	3	1	1	2-3	3000	0	•
20·3	+4	N'E	5	zo	57	97	56	5	5	–	–	10	10	800	0	3
22·5	+4	N	3	zo	55	92	51	6	5	–	–	10	10	800	1	•
22·8	0	N	4	c	55	85	51	7	8	–	–	9+	9+	1500	1	3
23·2	0	N	3	c	54	92	52	7	5	–	–	10	10	2000	0	4
23·4	+2	ESE	3	c-bc	58	85	53	7	5	3	5	4-6	7-8	900	0	•
22·6	+2	ENE	3	b-bc	66	85	60	7	5	4	–	2-3	2-3	4000	0	•
23·0	+6	NE'E	4	c	57	75	50	8	5	7	–	7-8	9+	1200	0	•
21·4	+4	E'N	4	b	62	85	58	8	1	–	1	Tr	Tr	3000	0	4
23·1	+2	NNW	3	b	62	75	53	9	–	4	–	0	Tr	–	0	2
24·5	0	NNE	5	b-bc	56	85	52	8	5	–	–	2-3	2-3	1500	0	4
24·0	0	NE	3	b	60	75	50	8	1	–	–	Tr	Tr	2500	0	•
24·0	+2	N	3	c	57	75	50	8	5	–	–	10	10	2000	0	2
25·1	0	NNE	3	c-bc	55	75	49	8	5	–	–	7-8	7-8	3000	1	•
24·8	0	NE'N	4	b	55	85	50	8	5	–	–	1	1	2500	0	2
21·5	+4	N	3	b	67	75	59	7	–	–	–	0	0	–	0	3
22·5	+6	NE'E	3	b	58	85	53	8	–	–	–	0	0	–	0	2
22·1	+2	NE'N	1	b	67	75	58	8	5	–	–	1	1	3000	0	•
21·0	+2	ESE	2	c-bc	69	92	67	8	5	–	1	4-6	7-8	2500	0	•
20·1	+2	NNW	4	b-bc	66	85	61	8	–	–	3	0	2-3	–	0	3
20·0	+4	SE	3	bc	66	85	61	8	1	–	5	1	4-6	4000	1	3

PAST 24 HOURS. WEATHER.

7h.–13h. 21st (30)	13h.–18h. 21st (40)	18h. 21st to 1h. 22nd (41)	1h.–7h. 22nd (42)
ro ro	ro ro	cr o cr o	cm o
cm o cr o r o	co ro rm o	cm o cr o r o	cm o o m o
cc m o i d o d o r o	cd o r o m o	cm o c	cr o d o cm o
cm o r o r o m o	cr o m cc r m o	cr o r o m o	cc m o
cm o o m i d o o m o	cm o r o r o	cm r o r o m o	cm o
cid o r r m o	cr r o r o m o	cr r i d o i r o m o	cir o i d o m o
cm o r o r r	cr o r o r o	cl o r o r o m o	cm o i d o m o
orr m o	orr m o	clo	o r o o
c	cr o r o	cr o r o o m o	c
c	c	coir o	pr r i d o
cc y c	c	cc d o d d o m o	cd o d o m o cid o
c	c	Cid o m o c	cd o d o m o c
o m c z	cb c c	co	om
cir o cr o r o cm o	cy c	cc id o m o	o d o d o m o o m o
r o o m o o m o	cz o cy	cb c c	co m o
c	bc	cb c m o	bc
cc i r o m o	cir m o cc	cb c c o	o m o
d d o	p d d o	orr	o
cir o c	cm o r o r o	cm o	cir o m o c
coc	c	coc z o	c
cir o	cir o c	co	o c b c
c	bc	cb c m o	bc z o w
bcc	bcc	bc b m o	b m w f g
cm o z o	cb c z o	bz o m o	b m o m ff
c	bc b z o	bz o m o	b m o w
o m o	o m o	c	o
cid o m o	cd g o cm o	cm o	cd o d o m o
o d o d o o	o c	cid o	o ir o o
F d o c	c	cd o c	c
c	cb c	bc c m o	c
cm o cc z o	bc	bc c c m o	cm o id o cm o
cir o	c	cd o	c
b	b c b	bb c c	c
b	b	b b w	b w f g
bcc	cb c b b c	b	bb c c
ob	b		bo
cc id o c	c	cc id o	c
o id o cid o c	cc id g c c	c	c
cid o b c	b c b	bb c c	c
b	b	b	b
b	b	b	b
c	cb c b	bb w	b b c c id g cm o
c	bc		f
b c	b	bc	bc
b c	bc	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 22nd July 1943

Districts.	
1 S.E. England 2 E. England .. 3 E. Midlands ...	Light or moderate northeast wind; mainly cloudy; local drizzle near East coast; bright intervals inland; cool.
4 W. Midlands 5 S.W. England	Light or moderate east wind; bright intervals; rather warm.
6 South Wales 7 North Wales 8 N.W. England	Light east wind; fair; warm.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light east to northeast wind; cloudy; cool.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland	As 6-8
15 N.E. Scotland	As 9-11
16 Orkneys and Shetlands	As 9-11
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland	As 6-8
20 S. W. Ireland	Light or moderate east wind; fine at first; perhaps local rain later; warm.

GENERAL INFERENCE

An anticyclone centred near Faeroes is moving slowly east; and an associated ridge extends to Ireland; weather will be mainly dry, but there will be local drizzle near the East coast

FURTHER OUTLOOK

Fair in the North; cloudy in the East; doubtful in extreme southwest.

Forecasts issued at 10-30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Thursday 22nd July. 1943.

28·2 HIGH

1028 1026 1024 1022 1020 1018

LOW

5°W. 0° 5°E. 10°

60° 55° 50°

Mb 1030 1020 1010 1000 990 980 970 960 950 940 930

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Past weather

Weather in past hour

Bar. change in past 3 hours in mbs.

Barometer mb.

Wind

Total Amount of cloud

Scale 1:5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of
Thursday 22nd July
1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 5/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. (T) Thunderstorm. K Slight haze.

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 22nd July 1943 — No. 29827

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	57	*	*	*	*	*	*	*	*	*
	Croydon ...	290	19·3	+8	NE	2	fog	58	92	57	6	5	2	–	9	10	500
	S. Farnborough	226	19·1	+6	NE'N	3	c	57	92	55	7	5	2	–	9+	10	800
	Boscombe Down	417	19·2	+8	NE'N	3	c	57	92	55	8	5	2	–	7-8	10	600
	Thorney Island	10	17·3	+2	N'E	3	c/f	59	92	56	6	6	2	–	7-8	10	1000
	Lympne ..	283	17·2	+6	NNE	5	ic	59	97	58	5	5	–	–	10	10	500
	Manston ...	154	17·4	+10	NNE	5	c/r	59	97	57	6	6	2	–	9+	10	600
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	18·6	+6	N'E	4	2o	57	92	55	6	5	–	–	10	10	800
	Gorleston ...	5	18·8	+18	N'E	4	ic	57	92	54	6	6	–	–	10	10	800
	Mildenhall ...	15	20·0	+4	NE'N	4	dodo	55	97	54	6	5	–	–	10	10	400
	Cranwell ...	203	21·7	+2	NE'N	4	2o	54	92	53	6	5	–	–	10	10	1100
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	20·4	+10	N'E	3	dodo	55	97	53	6	5	–	–	10	10	400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·1	+2	NE	3	bc	61	85	58	7	5	4	5	1	4-6	4000
	Bristol	209	20·1	+6	NNE	3	2o	59	85	55	6	5	–	–	10	10	1300
	Portland Bill ...	32	18·5	+8	NE	2	rr	59	92	57	7	5	–	–	10	10	2500
	Plymouth ...	86	19·1	+8	NNE	1	ic	63	85	58	6	5	7	–	7-8	10	2000
	The Lizard ...	240	18·7	+6	N	3	2o	63	85	60	6	5	–	–	10	10	1000
	Scilly (St. Mary's)	163	20·0	+6	N'E	2	o	59	97	58	6	5	–	–	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	20·4	+6	NE	3	2o	60	92	59	6	–	7	1	0	2-3	–
7	Holyhead (Valley)	32	21·6	+4	NNE	1	m	55	97	55	4	–	–	1	0	Tr	–
	Chester (Sealand)	16	22·0	+6	–	0	b	51	92	49	5	5	–	1	Tr	Tr	5000
8	Manchester ...	230	22·1	+8	ENE	1	2o	50	92	49	6	–	–	–	0	0	–
10	Spurn Head ...	29	21·4	–4	N'E	4	c	57	85	53	7	5	2	–	7-8	10	800
	Catterick (Sc) ...	192	23·3	+2	N	2	ido	53	97	52	6	5	–	–	10	10	1000
	Tynemouth ...	108	23·6	+6	N	4	c/d	54	97	53	7	8	–	–	10	10	1500
11	St. Abbs Head	280	23·5	–2	N	3	c	52	85	48	7	5	–	–	9+	9+	1500
	Leuchars ...	36	24·4	+4	E	2	ido	54	85	49	7	5	–	–	9+	9+	1200
12	Renfrew (Abbotsl.)	19	24·0	+2	E	2	2o	57	85	53	6	5	–	–	10	10	1000
	Eskdalemuir .:.	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	24·0	+14	E'N	4	ebc	56	92	54	8	6	4	–	7-8	7-8	1800
13A	Tiree	44	23·6	0	–	0	b	54	97	54	8	–	–	–	0	0	–
13B	Stornoway ...	12	25·3	+2	NE	4	b	54	92	52	8	5	–	–	Tr	Tr	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	25·4	+4	NNW	2	c	51	85	47	8	5	–	–	10	10	1600
	Wick ...	114	26·8	+2	NNE	2	c	52	85	48	8	5	7	–	4-6	9+	2000
16	Sumburgh ..	19	25·1	0	NNE	4	c	52	85	47	8	5	–	–	9	9	2000
17	Blacknod Point	18	22·6	+4	–	0	b	58	85	53	7	–	–	–	0	0	–
18	Malin Head ...	84	23·1	–2	–	0	b	54	85	49	8	–	–	–	0	0	–
	Aldergrove ...	268	23·6	+6	–	0	2o	52	92	50	6	–	–	–	0	0	–
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	22·0	+4	SW	2	c-bc	58	92	56	8	–	5	–	0	7-8	–
	Roches Point	22	22·3	+8	–	0	bc	60	92	58	8	5	–	–	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 22nd July

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	20·5	+10	NNE	3	2o	56	92	53	6	5	–	–	10	10	1500	1	*
	Croydon ...	20·8	+10	NNE	2	m	56	97	55	4	5	–	–	10	10	500	1	*
	S. Farnborough	20·5	+14	NE'N	3	2o	55	97	54	6	5	–	–	10	10	400	1	*
	Boscombe Down	20·4	+12	NE'N	2	2o	54	97	53	6	5	–	–	10	10	800	1	*
	Thorney Island	19·2	+16	NNE	2	2o	57	92	55	6	6	2	–	4-6	10	1500	1	*
	Lympne ..	19·0	+12	NNE	5	ido	57	97	56	5	5	–	–	10	10	400	1	3
	Manston ...	19·2	+12	NE'N	3	dodo	58	92	56	6	5	–	–	10	10	700	1	*
2	Shoeburyness ...	19·9	+10	N	3	o	56	92	54	5	5	–	–	10	10	1500	1	*
	Felixstowe ...	19·5	+6	N'E	4	c	56	92	55	7	5	–	–	10	10	800	0	3
	Gorleston ...	19·4	+6	N'E	3	o/d	57	85	54	7	5	–	–	10	10	800	0	3
	Mildenhall ...	20·8	+10	N'E	3	o/d	57	85	53	8	5	–	–	10	10	1500	1	*
	Cranwell ...	22·1	+10	NNE	3	c/d	55	85	51	7	5	–	–	9+	9+	1000	0	*
3	Birmingham ...	22·4	+4	NE	3	m	54	85	50	4	5	–	–	10	10	800	0	*
	Upper Heyford	21·1	+8	NE'N	3	2o	54	92	51	6	5	–	–	10	10	800	0	*
4	Ross-on-Wye	21·3	+8	NNE	2	2o	56	85	51	6	5	–	–	10	10	800	0	*
5	Hartland Point	19·7	+6	NE	4	b	59	85	55	7	–	4	1	0	1	–	1	3
	Bristol	21·4	+12	NE	3	2o	55	97	54	6	5	–	–	10	10	800	1	*
	Portland Bill ...	19·2	+6	NE	4	o	57	92	55	7	5	–	–	10	10	2500	1	4
	Plymouth ...	20·3	+14	NE'E	2	c	61	85	56	7	5	7	–	7-8	9	2000	1	1
	The Lizard ...	19·7	+6	NNE	2	c	60	92	58	7	5	2	–	9	10	1500	0	2
	Scilly (St. Mary's)	20·4	+6	N	2	b-bc	59	97	59	6	5	3	1	1	2-3	1200	1	2
	Guernsey ...																	
6	Pembroke ...	21·3	+8	–	0	2o	60	92	57	6	5	–	–	2-3	2-3	2500	0	2
7	Holyhead (Valley)	21·8	+4	NE	2	2o	57	92	55	6	5	–	–	4-6	4-6	1000	0	1
	Chester (Sealand)	22·2	+2	–	0	m/f	54	92	52	4	5	–	–	Tr	Tr	4000	0	*
8	Manchester ...	22·3	+6	SSE	1	2o	55	85	51	6	5	–	–	2-3	2-3	2500	0	*
10	Spurn Head ...	21·8	+4	N	4	o	56	92	54	7	5	–	–	10	10	800	0	3
	Catterick (Sc) ...	23·4	+4	N	3	c/d	53	92	49	6	5	2	–	10	10	1000	1	*
	Tynemouth ...	23·8	+2	N	4	o	54	75	48	7	5	–	–	10	10	1100	1	3
11	St. Abbs Head	23·8	–6	N	3	c	51	85	46	7	5	–	–	9+	9+	2500	0	4
	Leuchars ...	24·4	+2	ENE	2	c	52	75	45	7	5	7	–	9	10	1200	0	*
12	Renfrew (Abbotsl.)	24·0	+2	ENE	2	2o	55	92	52	6	5	–	–	4-6	10	1000	0	*
	Eskdalemuir .:.	23·6	0	SE	3	c	51	85	47	8	5	–	–	10	10	1200	0	*
	Point of Ayre ...	23·1	+6	E'N	4	ebc	56	85	50	8	5	–	–	7-8	7-8	1600	0	4
13A	Tiree	23·6	+4	S	2	b	57	97	57	7	–	–	4	0	1	–	1	1
13B	Stornoway ...	23·3	–18	E	2	c	56	85	51	7	5	–	–	9+	9+	1200	0	1
15	Dalwhinnie ...	25·0	–2	N	1	o	47	85	43	7	5	–	–	10	10	1500	0	*
	Aberdeen † ...	24·6	–4	N	2	c	52	75	45	8	5	–	–	10	10	1500	0	1
	Wick ...	25·3	+2	NNW	2	c	51	85	45	8	5	–	–	9+	9+	2000	0	*
16	Sumburgh ..	24·3	–6	N	4	c	53	75	46	8	5	–	–	9+	9+	2000	0	2
17	Blacknod Point	23·0	+4	–	0	b	63	85	58	7	1	–	–	Tr	Tr	4000	0	1
18	Malin Head ...	22·8	+4	–	0	bc	62	75	54	8	–	–	4	0	4-6	–	0	0
	Aldergrove ...	23·9	+4	–	0	2o	56	92	53	6	5	–	–	10	10	1000	0	*
19	Birr Castle ...	23·0	+2	SSE	1	f	51	97	50	3	–	–	–	10	10	1150	0	*
20	Valentia Obsy.	22·6	+8	NE	1	c	59	97	58	8	5	–	–	9+	9+	4000	0	1
	Roches Point	22·3	0	N	1	b	60	92	58	8	–	–	1	0	Tr	–	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 21st Hrs. (38)
1	London (Kew)	66	55	55	3	0·3	0·0
	Croydon ...	64	55	55	7	1	0·0
	S. Farnborough	65	54	55	7	2	0·0
	Boscombe Down	66	63	53	12	2	0·0
	Thorney Island	65	56	56	3	1	*
	Lympne ..	64	56	56	7	1	0·0
	Manston ...	63	58	57	22	3	0·0
2	Shoeburyness ...	63	55	57	17	0·1	0·0
	Felixstowe ...	67	55	55	2	–	0·0
	Gorleston ...	65	57	56	–	Tr	6·2
	Mildenhall ...	74	54	54	–	Tr	10·2
	Cranwell ...	65	54	54	–	–	2·2
3	Birmingham ...	70	53	52	–	–	5·1
	Upper Heyford	73	52	48	1	Tr	*
4	Ross-on-Wye	71	55	55	0·3	–	1·7
5	Hartland Point	61	58	55	2	–	0·0
	Bristol	71	55	50	0·1	–	0·0
	Portland Bill ...	64	55	*	1	4	*
	Plymouth ...	64	59	58	Tr	0·5	0·0
	The Lizard ...	66	59	*	–	–	0·4
	Scilly (St. Mary's)	63	59	*	0·1	–	0·7
	Guernsey ...						
6	Pembroke ...	73	55	*	–	–	6·3
7	Holyhead (Valley)	70	52	48	–	Tr	*
	Chester (Sealand)	73	47	38	–	–	8·6
8	Manchester ...	72	46	39	–	–	*
10	Spurn Head ...	60	54	*	–	–	0·0
	Catterick (Sc) ...	60	51	48	Tr	Tr	0·0
	Tynemouth ...	56	53	52	0·2	1	*
11	St. Abbs Head	55	50	*	Tr	Tr	*
	Leuchars ...	62	49	48	–	–	5·9
12	Renfrew (Abbotsl.)	67	53	52	–	–	6·7
	Eskdalemuir .:.	60	49	50	Tr	Tr	1·2
	Point of Ayre ...	66	55	*	–	–	14·2
13A	Tiree	64	53	40	–	–	15·3
13B	Stornoway ...	58	52	49	–	–	14·4
15	Dalwhinnie ...	65	46	43	–	–	10·6
	Aberdeen † ...	60	51	49	–	–	0·0
	Wick ...	59	50	50	0·2	–	*
16	Sumburgh ..	57	51	48	Tr	–	8·7
17	Blacknod Point	70	52	*	–	–	*
18	Malin Head ...	60	50		–	–	14·7
	Aldergrove ...	69	50	45	–	–	7·4
19	Birr Castle ...	70	45	41	–	–	6·6
20	Valentia Obsy.	74	54	49	–	Tr	*
	Roches Point	67	60		–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 21st July ... 18h. G.M.T. — 01h. G.M.T. 22nd July ... 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
109	5-	02848	01428	52	02845	01427	52	02844	02326	5-	02858	02328
115	52	02844	08427	52	02944	04427	52	02844	04427			
203				00	00890	08400						
206	5-	03848	10128	5-	52628	10158	5-	02848	04158	5-	02857	04127
210	5-	21633	02257	5-	51734	03328	5-	02748	04228			
219	00	00890	06400	00	00890	07400	00	01890	04302	50	00741	07402
230	00	00990	28100	00	00890	21200	04	01990	00001	5-	02958	00028
245	5-	02856	02426	5-	01956	32425	50	01841	03301	54	01852	32203
260	5-	05656	04427	52	02746	04328	5-	05648	04228			
278	2-	01764	30414	54	01862	21213	57	02754	15216	52	02837	14138
279	5-	02857	06428	54	02854	06425	5-	02857	06327	5-	02857	07427
285	5-	21628	32458							5-	05628	04328
288	5-	57328	02358	52	52425	31358	5-	51438	30358	5-	52436	30358
575	10	01863	03810	10	01862	12102	04	05690	00011	5-	05676	00026
301	50	02864	06425	04	01790	06213	5-	05546	08126	03	01790	08122
321	50	01834	03424	5-	02848	02328	5-	05648	30328	5-	51648	32328
296	5-	03738	04428	5-	21628	32458	5-	03738	32528			
282	5-	17755	01425	5-	17638	29428	5-	51648	29328	5-	21748	28358
318	--	01635	32415							--	02428	04328
614	1-	05655	37425	5-	05658	35428	5-	05648	03428	52	05645	04228

13h. G.M.T. 21st July ... 18h. G.M.T. — 01h. G.M.T. 22nd July ... 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
388	03	05690	03325	03	05690	02323	04	05690	00001	00	05590	28100
334				--	05662	10303				--	04556	06128
340	2-	05654	06425	5-	05654	06325	5-	08437	08107	5-	05645	08228
136	5-	05628	02528	--	57309	02459	5-	05528	32468	5-	51738	32358
336	13	01753	08415	13	01753	04314				52	41646	04348
350	54	02754	02525	5-	02747	35427	5-	52628	03558	5-	51638	01458
368	57	05545	04368	57	02644	04128	03	05690	00013	5-	05618	04428
379	53	02755	06666	47	02753	02526	5-	05618	02558	5-	21418	04558
390	52	02756	32128	52	51656	32368	5-	51658	02458	5-	03548	32456
382	57	02743	05367	17	02853	06327	5-	05358	20256	5-	21638	05258
438	82	61644	02368	82	61624	02388	52	62646	02468	--	48209	02489
430	5-	64538	02228	52	61645	01268	52	05646	39528	5-	05638	01228
409	5-	61408	02368	5-	05628	02328	51	05534	01127	57	05665	02228

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 22nd July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	fo rir o	forfo	cfocfocm	Kensington hours 7h. to 7h. Mean Time
Croydon	cmocfofo	cofofommo	cmofoomo	0·1 7-18hr 21st
Greenwich ...	rr	rrdd	cido	Min. Time
Camden Square	cr	c	*	<0·1 Rest of period
Kensington ...	cpc	cpcr	*	
Hampstead ...	or	o	o	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	66	55	55	3	0·3	0·0	*	*
Croydon ...	64	55	55	7	1	0·0	*	*
Greenwich ...	66	56	54	4	Tr	0·0	94	85
Westminster ...	66	56	55	3			100	90
Regents Park ..	66	55	54	1	0·4		83	87
Camden Square	66	55	55	3	–	*	*	85
Kensington ...	66	55	54	2	0·3		89	89
Hampstead ...	65	52	51	3	–		*	91

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 23rd July, 1943 — No. 29823

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	21·1	0	NE	3	c	63	75	54	7	5	3	–	9+	10	1500
	Croydon ...	21·4	-2	N	2	c	62	75	55	6	5	2	–	7-8	10	1200
	S. Farnborough	20·8	-4	NNE	3	c	63	75	54	7	5	–	–	9	9	2200
	Boscombe Down	21·2	-2	NE'N	1	c	62	75	55	7	5	2	–	4-6	9	1200
	Thorney Island	20·3	+4	N'E	3	2_0	65	75	57	6	5	–	–	9	9	1500
	Lympne ...	20·6	+8	N'E	4	2_0	60	86	56	6	5	–	–	10	10	900
	Manston ...	20·4	+6	N'E	3	2_0	61	75	54	6	5	7	–	9	10	1000
2	St. Buryness ...	20·4	0	N	1	c	63	75	55	6	5	–	–	10	10	1500
	Feastowe ...	20·4	-2	N	3	c	64	75	57	7	5	–	–	9+	10	1500
	Gorleston ...	19·9	+2	NNE	4	4/d	60	85	55	7	5	–	–	9+	9+	1000
	Mildenhall ...	21·3	+2	N'W	3	c	63	75	54	8	5	–	–	7-8	10	1500
	Cranwell ...	22·2	+2	N	2	c	60	75	53	7	5	–	–	10	10	1800
3	Birmingham ...	22·1	0	NE	3	2_0	61	75	53	6	5	–	–	9+	9+	1500
	Upper Heyford	21·3	0	NNE	3	c	64	65	53	7	5	–	–	9	9	2500
4	Ross-on-Wye	21·5	-4	NE	3	2_0	63	75	54	5	5	–	–	9	9	1500
5	Hartland Point	21·0	+4	ENE	2	b	65	85	59	6	–	–	–	0	0	–
	Bristol ...	21·7	-6	N	3	2_0	63	75	56	6	5	3	–	7-8	9+	1100
	Portland Bill ...	20·6	+2	NE	4	0	59	92	57	7	5	–	–	10	10	2500
	Plymouth ...	21·4	+2	ENE	2	2_0	63	85	58	6	5	2	–	7-8	10	1600
	The Lizard ...	21·5	+10	SE	2	c-bc	65	85	62	7	7	–	–	7-8	7-8	2500
	Scilly (St. Mary's)	21·7	+6	NE'N	3	2_0	66	58	49	6	–	–	–	0	0	–
	Guernsey ...															
6	Pembroke ...	21·7	0	–	0	2_0	64	85	60	6	8	7	–	1	2-3	2500
7	Holyhead (Valley)	22·4	0	NE	3	b	64	75	57	7	5	–	–	Tr	Tr	2500
	Chester (Sealand)	22·2	-2	NNE	1	c-bc	65	65	55	5	5	3	–	4-6	7-8	4000
8	Manchester ...	22·8	+2	NE	3	2_0	63	65	52	6	5	–	–	9+	9+	2000
10	Spurn Head ...	22·5	+2	N	5	0	57	85	53	7	5	–	–	10	10	1500
	Catterick (Sc.)...	24·1	+4	N	3	2_0	56	75	49	6	5	–	–	10	10	1000
	Tynemouth ...	24·6	+4	N	4	c	55	75	48	7	5	–	–	9+	9+	1700
11	St. Abbs Head	24·1	0	N	3	bc	55	85	49	7	2	4	–	2-3	4-6	3000
	Leuchars ...	24·5	0	E	2	b-bc	61	65	48	9	7	–	–	2-3	2-3	2500
12	Renfrew (Abbotsl.)	23·9	-2	NNE	1	2_0	64	65	53	6	5	–	–	4-6	10	1200
	Eskdalemuir ...	22·8	-4	NNE	2	b	62	65	49	8	1	–	1	Tr	Tr	3800
	Point of Ayre...	23·2	-6	E'N	3	b	62	75	54	8	5	–	–	1	1	2000
13A	Tiree	24·0	0	SSE	2	2_0	61	85	57	6	5	–	–	9+	9+	800
13B	Stornoway ...	24·3	0	NNE	2	b	57	75	51	8	–	–	1	0	Tr	–
15	Dalwhinnie ...	24·5	-2	NE	2	b	67	26	32	7	2	–	4	Tr	1	4000
	Aberdeen ...	24·1	-6	N	3	b	61	65	47	8	5	–	1	1	1	2000
	Wick ...	25·2	-2	NE	2	c-bc	55	75	47	8	5	–	–	7-8	7-8	3000
16	Sumburgh ...	24·5	0	NE	5	b	57	75	50	8	5	–	–	1	1	2500
17	Blacksod Point	23·3	-2	WSW	2	b	70	65	58	8	–	–	–	0	0	–
18	Malin Head ...	23·0	0	ESE	3	b-bc	55	85	54	8	–	–	1	0	2-3	–
	Aldergrove ...	23·3	0	NE	1	2_0	62	85	56	6	5	–	–	10	10	600
19	Birr Castle ...	23·1	0	NNE	1	bc	70	75	62	8	1	–	8	2-3	4-6	2500
20	Valentia Obsy.	22·9	0	W	3	b-bc	66	85	61	8	1	–	–	2-3	2-3	2500
	Roches Point	22·8	0	SE	3	bc	65	75	57	8	1	–	5	1	4-6	4000

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

District	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	20·4	-4	N'E	3	bc	66	65	53	8	5	–	–	4-6	4-6	4000	1	*
	20·8	-6	N	3	b-bc	67	65	55	7	5	–	–	2-3	2-3	3000	0	*
	20·1	-2	NNE	2	2_0	67	65	56	6	7	–	–	2-3	2-3	2500	0	*
	20·2	-4	NNE	1	b	68	65	53	7	–	–	–	0	3	–	0	*
	19·5	-2	NNE	1	c-bc	63	75	53	7	4	–	–	7-8	7-8	2500	0	*
	20·1	-2	NE	3	b-bc	63	75	55	7	5	–	–	2-3	2-3	5000	0	1
	20·3	0	NE'N	3	2_0	61	85	56	6	5	–	–	9	9	1000	1	*
2	20·3	-2	ENE	1	c-bc	63	85	58	8	–	3	–	0	7-8	–	1	*
	20·2	0	N'W	3	c	63	85	58	8	5	2	–	9+	10	2500	0	3
	19·8	0	N'E	4	id_0	60	85	56	7	8	–	–	10	10	800	0	3
	21·1	+2	N'W	3	id_0	59	85	54	7	5	–	–	7-8	10	800	1	*
	21·8	-2	NNE	2	id_0	57	85	52	7	5	–	–	10	10	2000	0	*
3	21·1	-2	NE	3	2_0	63	65	51	6	5	–	–	4-6	4-6	4000	0	*
	20·4	-6	NNE	3	b-bc	67	65	53	7	5	–	–	2-3	2-3	2500	0	*
4	20·3	-8	ENE	2	2_0	67	65	54	6	–	–	–	0	0	–	0	*
5	20·2	-6	NNW	2	b	62	85	58	6	–	–	–	0	0	–	0	3
	20·3	-4	NNE	2	b	70	75	60	7	1	–	–	Tr	Tr	2500	0	*
	20·0	-4	NE	4	0	61	85	58	7	5	–	–	10	10	2500	1	4
	21·5	+6	SSW	3	2_0	60	92	57	6	–	7	–	0	7-8	–	0	2
	20·7	-4	SE	2	2_0	61	92	59	5	5	–	–	9+	9+	1700	0	3
	21·4	-2	NE'N	2	b	65	75	58	6	–	–	–	0	0	–	0	2
6	20·9	+2	N	2	b-bc	66	85	62	7	5	–	–	2-3	2-3	2500	0	2
7	21·9	-6	NE	3	b	61	85	55	7	–	–	–	0	0	–	0	1
	20·9	-6	ENE	1	2_0	67	65	55	5	–	–	–	0	0	–	0	*
8	21·8	-6	E'S	3	2_0	62	75	52	6	5	–	–	2-3	2-3	2500	0	*
10	22·5	0	N'E	4	c	56	75	50	7	5	2	–	7-8	10	1500	0	2
	23·4	-2	N	1	2_0	59	75	50	6	1	–	–	4-6	4-6	3000	0	*
	24·6	0	NNE	3	b-bc	56	75	48	7	4	–	–	2-3	2-3	1700	0	3
11	23·5	-6	N	1	b	56	75	49	7	1	–	–	1	1	3500	0	3
	23·7	-4	ESE	4	b	58	65	48	8	1	4	–	Tr	Tr	3000	0	*
12	21·9	-10	NNE	1	b	69	92	67	7	5	–	1	1	1	4000	0	*
	22·0	-6	E'N	3	b	63	65	51	8	1	4	–	Tr	Tr	3500	0	*
	22·6	-4	N	2	b	60	85	57	8	–	–	–	0	0	–	0	2
13A	23·1	-8	–	0	2_0	62	85	57	6	1	–	–	1	1	800	0	1
13B	23·7	-2	NE	4	b	57	85	51	8	–	–	8	0	Tr	–	0	2
15	23·0	-4	NE	3	b-bc	66	45	45	7	8	–	4	Tr	2-3	4000	0	*
	23·3	-4	WSW	2	b	58	65	56	8	5	–	5	Tr	Tr	2500	0	*
	24·1	-8	NE	2	b-bc	55	75	47	8	6	–	–	2-3	2-3	3000	0	*
16	23·6	-6	NNE	5	b	56	85	50	9	5	–	–	Tr	Tr	2500	0	2
17	23·1	+2	NW	1	bc	64	85	59	7	8	–	–	4-6	4-6	4000	0	2
18	22·4	-2	E	2	b	60	85	55	7	–	–	–	0	0	–	0	2
	22·5	+8	ENE	1	2_0	68	75	58	6	5	–	–	Tr	Tr	2500	0	*
19	21·7	-6	ENE	1	b-bc	73	55	56	8	–	–	1	0	2-3	–	0	*
20	22·5	-2	WSW	2	b	65	85	60	8	1	–	–	Tr	Tr	2500	0	2
	22·0	-6	S	2	bc	64	85	59	8	–	–	5	0	4-6	–	0	2

PAST 24 HOURS.

District	Weather 7h.–13h. ...22nd (39)	Weather 13h.–18h. 22nd (40)	Weather 18h. 22nd to 1h. 23rd (41)	Weather 1h.–7h. 23rd (42)
1	cm_0c	cbc	bcbbc	bccidoc
	ccm$_0$	cz_0bcb	cm_0cid$_0m_0$	cm_0cido
	cem_0z_0	cbcbz_0	bzbbc	cidoc
	cm_0c	cbcb	bm_0	bm_0cm_0cid$_0$
	cm_0	cm_0c	bccm_0bm_0	cm_0bm_0cwc
	oid$_0$cm_0	cbcm_0	bccm_0	cm_0ido
	od$_0$d$_0m_0$cm_0	cz_0m_0	cm_0	cm_0dodm_0
2	om_0cm_0	cz_0bc	c	odod$_0$o
	c	bcc	cidocdod$_0$	c
	oid$_0$c	cid	cido	od$_0$d$_0$
	cid$_0$c	cid$_0$	cdod$_0m_0$	cidocdcdm_0
	cd$_0$d$_0$	c	cid$_0m_0$	cm_0c
3	om_0cz	cbcz	bc2	bc2
	om_0c	cbc	cm_0dod$_0$c	cd$_0m_0$
4	om_0	cz_0bz	bm_0	bmwcm
5	b	bz_0	bm_0	fbcc
	cm_0cm_0	$cm_0bcm_0bm_0$	$bm_0bcm_0cm_0cm_0$	
	0	0	obcb	oc
	cm_0	cm_0	$cm_0bcm_0cm_0w_0m_0wof$	
	cz$_0$	cz$_0$c	czcw	cffe
	bcb	b	bccw	bbcw$_0$b
6	bcbm_0	bcm_0	bcw	bcm_0
7	bcm$_0$b	b	bbf$_0m_0$	bf
	bmbcz$_0$	bcbz$_0$	bz$_0$f	bm
8	bccm$_0$z$_0$	cbcz$_0$	bcbz$_0m_0$	bm_0cm_0w
10	0	c	c	c
	cm_0fz$_0$	cz$_0$	bc2$_0bm_0$	cm_0
	oc	bc	bcc	c
11	cbc	bc	bc	c
	cbc	bcb	bc	$cem_0cdod_0m_0$
12	cm_0	cm_0bm_0bc	bbm_0bcm_0w	bbcmfgbfw
	cbcb	b		bbcw
	b	b	bw	bbc2
13A	bccm_0	cm_0bcbm_0	bm_0f	f
13B	cbcb	b	bbw	bwb
15	oby	bbcy		bcb
	cbcb	b	b	b
	c	bc	bbc	bcbffgc
16	cbcb	b	bbc	bcc
17	b	bc	b	bc
18	bc	b	b	c
	cm_0	$cm_0bcm_0bm_0$	$bm_0cm_0bm_0bc2_0$	
19	f	bc	*	f
20	bc	b	bc	d
	bc	bc	bc	f

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 23rd July 1943

Districts	Forecast
1 S.E. England 2 E. England .. 3 E. Midlands ...	Light northerly to variable wind; cloudy at first with light local drizzle, becoming fine but considerable fog developing during night, dispersing in the forenoon; rather cool.
4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland .. 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light variable winds; mainly fine; some coast fog; local inland fog developing in the night but dispersing in the forenoon; rather warm.
16 Orkneys and Shetlands	3–15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland	Light variable to southerly winds; cloudy with slight local drizzle at first, occasional rain later; some coast fog; rather warm or close.
	As 3–16
20 S.W. Ireland	As 17

GENERAL INFERENCE

A ridge of high pressure over the British Isles is moving slowly east and is being followed by a weak trough of low pressure; weather will be mainly fine, but with some fog in most inland districts at night and some patches of coast fog; it will be mainly cloudy in east and southeast England at first, and there will be some rain in western Ireland later; in most districts it will be rather warm.

FURTHER OUTLOOK

Fine over greater part of British Isles; some rain in west.

Forecasts issued at 10-30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday 23rd July. 1943.

10° 5°W. 0° 5°E. 10°

60° 55° 50°

1020 1022 1020 1022 1018

LOW

HIGH

LOW

HIGH

1022

5°W. 0° 5°E

Mb 1050 1040 1030 1020 1010 1000 990 980 970 960 950 940 930

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Total Amount of clouds

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1:5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Friday, 23rd July,

1943.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 23rd July 1943 — No. 29828.

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	57	*	*	*	*	*	*	*	*	*
	Croydon ...	290	22·0	-2	NNE	2	ido	57	92	54	5	5	2	-	4-6	10	800
	S. Farnborough	226	21·6	0	NNE	2	c	57	85	53	8	5	7	-	9+	10	1600
	Boscombe Down	417	21·7	+6	-	0	Zo	54	82	52	6	-	-	-	0	0	-
	Thorney Island	10	21·0	+2	NE'N	1	Zo	57	85	52	6	5	3	-	4-6	7-8	2700
	Lympne ..	283	20·8	0	N'E	3	Zo	58	92	55	6	5	-	-	10	10	1600
	Manston ...	154	20·4	-2	N'E	3	Zo	58	85	55	6	5	-	-	10	10	1800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	21·1	-2	NNW	1	dodo	56	97	55	7	5	-	-	10	10	2100
	Gorleston ...	5	20·9	+14	N	2	o/d	57	97	57	7	5	-	-	10	10	800
	Mildenhall ...	15	21·7	-4	N'W	1	Zo	54	97	52	6	5	-	-	10	10	1400
	Cranwell ...	203	22·6	-4	NNE	2	Zo	53	85	48	6	5	-	-	10	10	1100
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·9	-2	NE'E	1	dodo	55	97	53	5	5	-	-	10	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	20·7	0	SSW	3	b	59	97	59	5	-	-	-	0	0	-
	Bristol	209	22·1	+6	-	0	Zo	55	97	54	6	5	-	-	10	10	1500
	Portland Bill ...	32	20·8	+2	NW	3	b	60	85	56	8	-	-	-	0	0	-
	Plymouth ...	86	21·6	0	-	0	Zo	59	97	58	5	5	-	-	10	10	1000
	The Lizard ...	240	21·7	+2	-	0	Zo	59	97	59	5	5	-	-	10	10	1500
	Scilly (St.Mary's)	163	22·0	0	N'E	2	Zo	58	97	58	5	5	-	-	2-3	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	21·6	0	N	1	b-bc	55	97	55	7	-	7	-	0	2-3	-
7	Holyhead (Valley)	32	21·2	0	-	0	f3	50	97	50	4	-	-	-	0	0	-
	Chester (Sealand)	16	22·4	+2	-	0	m	52	92	50	4	-	2	-	0	1	-
8	Manchester ...	230	22·6	-4	ENE	2	Zo	48	92	46	5	-	-	-	0	0	-
10	Spurn Head ...	29	22·4	-6	N'E	3	c	55	75	47	7	5	2	-	7-8	10	2500
	Catterick (Sc.) ...	192	23·7	-14	NNE	1	Zo	50	92	48	5	5	-	-	10	10	1200
	Tynemouth ...	108	24·0	-2	N	3	c	53	86	47	7	5	-	-	9+	9+	1500
11	St. Abbs Head	280	23·5	+6	N	1	c	51	85	47	7	5	-	-	10	10	4000
	Leuchars ...	36	23·6	0	-	0	c	50	92	48	7	5	-	-	10	10	1100
12	Renfrew (Abbotsl.)	19	23·1	+4	E'N	2	Zo	52	92	49	6	5	3	2	2-3	4-6	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	22·6	0	NW	1	b	54	97	54	7	-	-	-	0	0	-
13A	Tiree	44	22·7	-2	-	0	f	56	97	56	1	-	-	-	10	10	T/50
13B	Stornoway ...	12	22·7	-6	WNW	1	b	46	97	45	7	-	-	-	0	0	-
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	23·8	-2	NW	1	b	42	97	41	7	5	-	-	1	1	1500
	Wick ...	114	24·0	-2	NW	1	b-bc	43	97	42	8	5	-	-	1	2-3	3000
16	Sumburgh ..	19	23·3	-2	N	2	bc	47	92	45	8	5	3	-	2-3	4-6	2000
17	Blacksod Point	18	22·6	-2	N	2	b-bc	60	97	59	7	8	-	-	2-3	2-3	4000
18	Malin Head ...	84	22·4	-2	W	1	Zo	58	92	56	6	5	-	-	9	9	1500
	Aldergrove ...	268	22·6	-2	-	0	Zo	54	92	52	6	5	-	-	4-6	4-6	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	22·7	-2	W'S	1	Zo	58	97	57	6	5	-	-	10	10	220
	Roches Point	22	22·3	0	-	0	bc	60	97	59	7	5	-	-	4-6	4-6	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	21·9	+4	NNE	2	Zo	55	85	49	6	5	-	-	9+	9+	2500	1	*
	Croydon ...	22·4	+6	N	2	c	55	85	51	6	5	2	-	9	10	1500	0	*
	S. Farnborough	21·9	+6	NE'N	2	o/d	55	85	50	8	5	-	-	10	10	1200	0	*
	Boscombe Down	22·0	+6	NE'N	1	ido	55	85	52	7	5	-	-	10	10	800	0	*
	Thorney Island	21·2	+2	NNW	2	c	56	85	51	8	5	-	-	7-8	10	2000	0	*
	Lympne ..	21·1	+2	NNW	2	ido	56	97	55	6	5	2	-	9+	10	600	1	*
	Manston ...	20·8	+6	NNE	3	o/d	58	85	55	6	5	-	-	10	10	1000	1	*
2	Shoeburyness ...	21·5	+4	N	3	o/d	55	92	53	7	5	-	-	10	10	800	1	*
	Felixstowe ...	21·2	+4	N'E	2	c	56	92	54	7	5	-	-	9+	9+	1500	0	2
	Gorleston ...	21·4	+2	N	2	dodo	55	92	54	7	6	-	-	10	10	800	1	2
	Mildenhall ...	21·7	+2	N	2	dodo	54	97	52	6	5	-	-	7-8	10	800	1	*
	Cranwell ...	22·4	0	N	2	c	52	85	49	7	5	-	-	10	10	1800	0	*
3	Birmingham ...	22·9	+4	NE	2	Zo	54	75	46	5	5	-	-	7-8	7-8	800	0	*
	Upper Heyford	22·3	+6	NE'N	2	dodo	53	85	50	6	5	-	-	7-8	10	800	1	*
4	Ross-on-Wye	22·0	0	N	1	Zo	56	92	52	5	5	-	-	9+	9+	800	0	*
5	Hartland Point	20·8	+2	S	1	b	57	97	57	6	-	-	-	0	0	-	1	2
	Bristol	22·5	+6	NNE	1	Zo	57	92	55	6	5	-	-	9	9	2600	0	*
	Portland Bill ...	20·8	+2	ENE	3	c	59	85	55	7	5	-	-	10	10	2500	1	4
	Plymouth ...	21·6	+4	-	0	f	56	97	56	2	-	-	-	10	10	T/50	0	1
	The Lizard ...	21·0	+2	NNE	2	of	56	97	56	2	5	-	-	10	10	600	1	3
	Scilly (St.Mary's)	21·7	0	NW	1	b	59	97	58	6	-	-	-	0	0	-	1	2
	Guernsey ...																	
6	Pembroke ...	21·2	0	-	0	bc	58	97	58	6	5	-	-	4-6	4-6	2500	0	1
7	Holyhead (Valley)	22·0	+4	-	0	F	52	97	52	0	-	-	-	10	10	T/50	1	1
	Chester (Sealand)	22·2	+2	-	0	bf-	52	97	51	3	-	-	-	0	0	-	0	*
8	Manchester ...	22·6	+2	ENE	2	Zo	51	92	48	6	5	-	-	9+	9+	3000	0	*
10	Spurn Head ...	22·5	+2	N	3	c	55	75	46	7	5	2	-	7-8	10	1500	0	2
	Catterick (Sc.) ...	23·7	+4	NNW	2	Zo	50	85	45	5	5	-	-	10	10	1200	0	*
	Tynemouth ...	23·8	+2	N	3	c	53	85	47	7	5	-	-	9+	10	1400	0	3
11	St. Abbs Head	23·0	0	-	0	c	51	85	47	7	5	-	-	10	10	2500	0	3
	Leuchars ...	23·0	+2	-	0	dodo	52	92	49	5	5	-	-	10	10	300	0	*
12	Renfrew (Abbotsl.)	22·7	-2	ENE	1	bf+	49	97	49	3	-	-	4	0	1	-	0	*
	Eskdalemuir ...	22·8	0	NE'E	2	bc	48	85	44	7	5	3	-	4-6	4-6	100	0	*
	Point of Ayre ...	21·8	0	-	0	bc	57	97	57	7	-	4	-	0	4-6	-	0	1
13A	Tiree	22·1	-4	SE	1	f+	56	97	55	2	-	-	-	10	10	T/50	1	1
13B	Stornoway ...	21·4	-6	-	0	b	53	92	51	8	-	8	-	0	Tr	-	0	1
15	Dalwhinnie ...	22·8	-4	N	1	b	49	85	43	7	-	-	1	0	1	-	0	*
	Aberdeen † ...	23·0	-6	NW	2	b-bc	48	85	45	8	5	4	1	Tr	2-3	1500	0	1
	Wick ...	22·7	-10	SE	1	c-bc	50	97	50	8	5	-	-	7-8	7-8	2500	0	*
16	Sumburgh ..	22·6	-2	N'E	2	c	50	92	48	8	5	-	-	9	9	2000	0	2
17	Blacksod Point	21·7	-2	N'E	1	b-bc	61	92	59	7	8	-	-	2-3	2-3	4000	0	2
18	Malin Head ...	22·0	0	N	1	Zo	58	85	53	6	5	-	-	10	10	1500	0	0
	Aldergrove ...	22·0	-2	-	0	Zo	59	92	56	6	5	-	-	4-6	4-6	3500	1	*
19	Birr Castle ...	22·1	0	S	1	f	53	97	52	3	-	-	-	10	10	T/50	0	*
20	Valentia Obsy.	22·0	-2	S'E	1	f o/d	59	97	58	5	5	-	-	10	10	220	0	1
	Roches Point	21·3	-2	N	1	f	59	92	57	3	-	-	-	10	10	T/50	0	*

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine Hrs. (38)
1	London (Kew)	68	54	53	-	Tr	3·8
	Croydon ...	68	54	53	-	Tr	4·6
	S. Farnborough	68	52	49	-	Tr	6·6
	Boscombe Down	69	52	51	-	-	6·2
	Thorney Island	69	56	56	-	-	*
	Lympne ..	64	55	55	Tr	Tr	2·1
	Manston ...	63	57	56	0·1	Tr	0·9
2	Shoeburyness ...	67	54	56	-	Tr	3·2
	Felixstowe ...	68	54	54	-	Tr	3·2
	Gorleston ...	62	55	54	Tr	0·6	1·0
	Mildenhall ...	63	52	52	Tr	0·2	0·0
	Cranwell ...	61	49	51	-	-	0·1
3	Birmingham ...	65	53	45	-	-	2·8
	Upper Heyford	68	53	48	-	Tr	*
4	Ross-on-Wye	69	52	44	-	-	5·4
5	Hartland Point	60	55	54	-	-	14·1
	Bristol	70	54	43	-	-	6·0
	Portland Bill ...	63	56	*	-	-	*
	Plymouth ...	66	55	51	-	-	0·3
	The Lizard ...	66	54	*	-	Tr	3·8
	Scilly (St.Mary's)	69	55	*	-	Tr	11·9
	Guernsey ...						
6	Pembroke ...	70	52	*	-	-	13·3
7	Holyhead (Valley)	67	48	37	-	-	*
	Chester (Sealand)	69	48	41	-	-	7·3
8	Manchester ...	64	45	38	-	-	*
10	Spurn Head ...	58	53	*	Tr	-	0·0
	Catterick (Sc.) ...	59	44	39	-	-	1·9
	Tynemouth ...	56	52	50	-	-	*
11	St. Abbs Head	57	49	*	-	-	*
	Leuchars ...	62	49	40	-	Tr	10·5
12	Renfrew (Abbotsl.)	70	45	39	-	Tr	6·2
	Eskdalemuir ...	67	37	31	-	-	9·3
	Point of Ayre ...	63	50	*	-	-	12·1
13A	Tiree	63	54	46	-	Tr	13·1
13B	Stornoway ...	59	43	31	-	-	11·9
15	Dalwhinnie ...	72	34	27	-	-	12·1
	Aberdeen † ...	62	38	33	-	-	11·2
	Wick ...	56	39	36	-	-	*
16	Sumburgh ..	59	57	40	-	-	11·0
17	Blacksod Point	71	57	*	-	-	*
18	Malin Head ...	66	51		-	-	14·5
	Aldergrove ...	68	52	48	-	-	5·3
19	Birr Castle ...	73	47	44	-	-	11·9
20	Valentia Obsy.	67	57	37	-	Tr	11·7
	Roches Point	67	58		-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 22nd July — 18h. G.M.T. — 01h. G.M.T. 23rd July — 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
109	5-	01954	32424	10	01953	02313	5-	01854	00004	5-	02956	07226
115				54	01961	08414	54	02841	08224			
203	00	00590	32300									
206	10	01861	10221	00	01899	10412	5-	02746	26116	5-	05628	00028
210	5-	01864	06224	00	01890	08212	5-	05647	18117	5-	01852	16212
219	10	01841	08201	10	01841	10201	00	09790	12100	50	51418	12158
230	5-	05647	00027	00	05790	22222	00	05590	00000	5-	05657	00027
245	50	00851	07401	70	00752	08202	5-	05648	28128	5-	02845	04125
260	10	05673	05223	00	00790	06312	50	05681	06211	5-	05658	04228
278	5-	02848	23228	00	01790	30321	57	05643	20113	03	01890	14115
279	50	01863	06213	50	01861	04201	00	00790	04200	5-	43428	08348
285	10	01854	01414							10	01743	10213
288	5-	05646	01358	5-	05655	01325	51	08444	26117	5-	05658	31228
575	10	05764	24114	16	05762	00013	53	01753	00014	--	46109	00049
301	10	01854	10214	00	01790	30310	00	08490	08110	5-	08455	08315
321	5-	02748	31328	5-	02748	02328	5-	05645	32125	5-	02748	32128
299	5-	21738	30458				5-	02746	32326	5-	02747	32327
292	50	05643	29458	5-	05658	01328	5-	05648	28118	5-	05658	28228
310												
614	5-	05645	02227	5-	05644	02228	5-	05538	02128	5-	05648	02228

13h. G.M.T. 22nd July — 18h. G.M.T. — 01h. G.M.T. 23rd July — 07h. G.M.T.

III	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN	C_L C_M	wwVhN$_h$	DDFWN
388	20	05663	13213	00	05690	30300	00	05690	28100	00	45290	18140
334	--	05652	06213							--	04453	00014
340	5-	05545	32128	5-	05654	08224	00	05590	00000	00	05590	08140
336	5-	51738	01358	5-	52638	32358	5-	52738	02258	5-	02748	32258
386	50	01753	08313	10	01763	04213				50	05645	04215
350	5-	02748	02358	5-	02747	02327	5-	52748	02258	5-	02745	32225
368	00	05690	08360	50	05563	00003	5-	46358	04118	5-	08444	04326
379	5-	05648	32428	50	05653	02103	5-	05648	02128	5-	51524	22252
390	57	02655	30226	40	05662	31212	5-	52538	32358	5-	51738	32258
382	5-	02745	06225	10	01751	05212	5-	05648	06118	5-	51745	07158
438				83	02645	02116	5-	02758	02308	5-	02648	32328
430	5-	05626	04326	10	05655	32214	5-	05657	04128	5-	02768	32228
409	10	01752	02302	13	05651	31202	--	48009	00049	5-	08408	00048

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 23rd July, 1943.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	cMoC	cbc	bccidoc	Kew 0 hours to 7h. Max. Time 0·1 7-19h 22nd Min. Time 0·1 Rest of Period.
Croydon ...	ccMo	c2obcb	cMocido	
Greenwich ...	c	cb	bc	
Camden Square	c	c	*	
Kensington ...	cbc	bc	*	
Hampstead ...	o	bcp	o	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs (Yesterday)	Humidity 15h % (Yesterday)	Humidity 9h % (To-day)
Kew ...	68	54	53	-	Tr	3·8	*	*
Croydon ...	68	54	53	-	Tr	4·6	*	*
Greenwich ...	69	53	53	-	-	5·3	65	79
Westminster	69	55	54	Tr			75	91
Regent's Park	70	54	53	Tr	-		62	81
Camden Square	69	53	53	-	-	*	*	82
Kensington	69	54	53	-	Tr		63	85
Hampstead	66	51	47	-	Tr		*	88

SECRET

Page 1

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Saturday 24th July 1943 No. 29829.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	21·6	-4	N'W	2	c	59	75	51	7	5	2	–	7-8	10	1600
	Croydon ...	22·5	0	NW	2	2_o	59	75	52	6	5	–	–	10	10	1600
	S. Farnborough	21·7	-4	NNW	2	2_o	59	75	51	6	5	–	–	10	10	2200
	Boscombe Down	21·8	-2	N'E	1	c	58	75	51	7	5	–	–	10	10	2000
	Thorney Island	21·3	0	NE	1	2_o	60	75	52	6	5	–	–	7-8	10	1500
	Lympne ...	21·1	0	N'E	2	c	59	85	55	7	5	–	–	10	10	1000
	Manston ...	20·9	0	NNE	3	o/d	60	85	54	7	5	–	–	10	10	800
2	Shoeburyness ...	21·2	-2	N	2	c	61	75	48	8	5	–	–	10	10	2500
	Felixstowe ...	21·3	+2	N	2	c	60	85	54	7	5	–	–	10	10	2100
	Gorleston ...	21·6	+2	NE'N	2	c	58	75	50	7	5	–	–	10	10	1200
	Mildenhall ...	21·6	-6	N	1	c	58	75	51	8	5	–	–	7-8	10	1500
	Cranwell ...	21·2	-10	–	0	b-bc	67	55	49	8	1	–	–	2-3	2-3	2500
3	Birmingham ...	21·6	-4	SW	1	2_o	67	45	46	6	–	–	–	0	0	–
	Upper Heyford	22·0	-2	ENE	2	2_o	56	85	50	6	6	–	–	10	10	1800
4	Ross-on-Wye	20·6	-10	ESE	2	2_o	69	55	53	6	1	–	–	Tr	Tr	3000
5	Hartland Point	20·6	-2	W	3	c	59	92	56	6	5	–	–	9+	9+	1500
	Bristol ...	21·1	-8	NE	2	2_o	70	65	58	6	1	–	–	2-3	2-3	2500
	Portland Bill ...	21·2	+2	E	3	c	61	85	58	7	5	–	–	10	10	4000
	Plymouth ...	21·4	0	SSW	3	2_o	64	85	58	6	5	–	–	9+	9+	1500
	The Lizard ...	21·0	-4	–	0	2_o	63	85	60	5	5	–	–	4-6	4-6	2000
	Scilly (St.Mary's)	22·0	0	N'W	2	2_o	65	85	59	6	5	–	–	10	10	1000
	Guernsey ...															
6	Pembroke ...	20·9	-2	SE	1	c	62	85	56	6	5	1	–	4-6	9+	2000
7	Holyhead (Valley)	21·0	-6	W	2	2_o	69	75	61	6	1	–	–	Tr	Tr	2500
	Chester (Sealand)	20·5	-14	–	0	b-bc	70	55	47	6	5	–	–	2-3	2-3	3500
8	Manchester ...	20·5	-14	SSW	2	2_o	69	55	53	5	–	–	–	0	0	–
10	Spurn Head ...	22·3	-4	NNE	3	c-bc	55	65	47	7	7	3	–	4-6	7-8	1500
	Catterick (Sc)...	21·8	-14	NNE	1	2_o	65	55	49	6	–	–	–	0	0	–
	Tynemouth ...	23·0	-4	ENE	2	b-bc	57	65	47	8	2	3	–	2-3	2-3	2200
11	St. Abbs Head	21·9	-8	E	2	b-bc	60	65	43	7	1	–	–	2-3	2-3	3500
	Leuchars ...	21·8	-6	SSE	3	b-bc	62	65	50	8	7	–	2	2-3	2-3	2500
12	Renfrew (Abbots I.)	20·6	-14	NNE	1	2_o	70	65	56	6	–	–	6	0	2-3	–
	Eskdalemuir ...	20·2	-4	SW's	3	bc	66	75	56	8	7	–	–	4-6	4-6	2200
	Point of Ayre...	21·8	-2	SSE	2	b-bc	70	55	54	7	–	3	–	0	2-3	–
13A	Tiree	21·8	-2	W	1	2_o	60	85	56	6	5	–	–	10	10	400
13B	Stornoway ...	20·8	-2	SSE	3	bc	61	85	56	8	5	–	–	4-6	4-6	2600
15	Dalwhinnie ...	21·0	-2	N	2	b-bc	73	45	52	7	7	–	1	1	2-3	4000
	Aberdeen ...	22·1	-2	SE	3	b	57	65	47	8	7	–	1	Tr	1	1500
	Wick ...	22·0	-2	SE	1	b-bc	55	85	49	9	5	3	–	2-3	2-3	2500
16	Sumburgh ...	22·0	-2	NE	3	c	55	85	49	8	5	–	–	9	9	2800
17	Blacksod Point	21·5	-6	–	0	c	63	85	59	7	5	–	–	10	10	2500
18	Malin Head ...	21·6	-2	NE'N	1	bc	59	85	55	7	5	–	–	4-6	4-6	1500
	Aldergrove ...	21·0	-8	WNW	1	2_o	69	75	61	6	8	–	–	4-6	4-6	3000
19	Birr Castle ...	20·6	-10	ENE	1	bc	77	55	62	8	2	–	–	4-6	4-6	2500
20	Valentia Obsy.	21·5	-4	W	2	o/d	60	97	60	7	5	–	–	10	10	800
	Roches Point	21·1	-2	S'E	2	2_o	62	92	60	6	5	–	–	9+	9+	1500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
20·6	-8	N	2	2_o	59	75	51	6	5	–	–	10	10	1500	1	*
21·1	-6	NW	1	2_o	59	75	53	5	5	2	–	7-8	10	1600	0	*
20·5	-6	NNW	1	2_o	59	75	52	6	5	–	–	10	10	1800	0	*
20·2	-8	–	0	b	63	65	52	7	–	–	–	0	0	–	0	*
20·1	-8	N'E	1	2_o	62	75	54	6	5	–	–	7-8	9+	1500	0	*
20·1	-6	NE'N	3	c	60	75	54	7	5	–	–	10	10	1200	0	2
20·4	-2	NE'N	2	c	59	85	53	7	5	–	–	10	10	1500	1	*
20·5	-10	NNE	1	c	60	85	54	8	5	–	–	10	10	2500	1	*
20·3	-6	N'W	2	c	60	85	54	7	5	–	–	10	10	1500	0	1
20·6	-12	NNE	2	c	58	85	52	7	5	–	–	10	10	1200	0	2
20·0	-12	–	0	b-bc	62	65	51	8	5	4	1	2-3	2-3	1500	0	*
20·2	+2	E's	3	b	63	65	51	7	–	4	–	0	Tr	–	0	*
19·1	-2	SE	3	2_o	67	55	51	6	–	–	–	0	0	–	0	*
20·2	-10	E's	1	2_o	60	75	51	6	–	–	–	0	0	–	0	*
18·7	-10	SE	1	2_o	71	55	55	6	5	–	–	4-6	4-6	3500	0	*
19·3	-8	W	3	0	59	92	57	6	5	–	–	10	10	600	0	2
19·3	-10	S	2	2_o	69	75	60	6	1	3	–	Tr	1	4000	0	*
20·3	-8	ESE	3	c	60	85	56	7	5	–	–	10	10	4000	1	4
20·3	-4	SSW	3	2_o	60	92	58	6	5	–	–	10	10	800	0	2
19·8	-6	NNW	3	bc	66	75	58	7	–	–	–	4-6	4-6	2500	1	2
21·0	-6	N'W	2	c	63	85	55	6	5	–	–	9+	9+	800	0	2
19·9	-6	W	1	F+	58	97	58	1	–	–	–	10	10	150	0	1
19·8	-6	NE	1	2_o	68	65	54	6	–	–	–	0	0	–	0	1
19·8	-10	NW	2	2_o	68	65	57	5	–	–	–	0	0	–	0	*
18·8	-10	W	2	2_o	68	65	55	6	4	–	–	Tr	Tr	4000	0	*
21·3	-10	ENE	3	b-bc	56	75	46	7	–	–	2	0	2-3	–	0	2
20·8	-2	NNE	2	2_o	62	65	50	5	–	–	–	0	0	–	0	*
21·9	-8	E	3	b	57	75	48	8	–	–	–	0	0	–	0	2
19·6	-8	ESE	2	b-bc	56	75	48	7	1	–	–	2-3	2-3	4500	0	3
20·0	-6	ESE	3	b-bc	61	65	51	8	–	–	2	0	2-3	–	0	*
18·9	-10	WSW	3	2_o	70	65	57	6	5	–	–	1	1	3000	0	*
18·5	-10	SSW	3	bc	69	65	56	8	7	–	–	4-6	4-6	2200	0	*
20·0	-8	N	1	b	65	75	55	7	–	–	1	0	Tr	–	0	1
20·7	-10	–	0	c	58	92	56	7	5	–	–	10	10	500	1	1
20·7	+6	NW	2	c	59	92	58	6	5	–	–	10	10	1200	0	1
19·8	+6	NNW	1	c-bc	68	65	54	7	5	–	2	4-6	7-8	2500	0	*
20·8	-12	ESE	2	b	57	65	47	7	–	–	1	0	1	–	0	1
21·3	-2	SE	2	b	54	85	48	9	5	–	–	1	1	2500	0	*
20·9	-6	NE'E	1	c	53	85	49	9	5	–	–	9+	9+	3000	0	2
20·5	-6	NW	1	c	60	92	58	7	5	–	–	10	10	2500	0	2
20·2	-10	NE'N	2	b	59	85	55	6	–	–	–	0	0	–	0	
19·0	-14	NW	1	2_o	72	75	64	6	8	–	–	1	1	3000	0	*
18·4	-14	ENE	1	c-bc	77	65	66	8	2	–	8	4-6	7-8	2500	0	*
20·2	-10	SW	3	c	63	75	55	8	5	–	1	9	9	4000	0	2
19·6	-10	S'W	3	b	65	85	61	8	1	–	–	Tr	Tr	4000	0	3

PAST 24 HOURS.

Weather 7h.–13h. 23rd. (39)	Weather 13h.–18h. 23rd. (40)	Weather 18h. 23rd. to 1h. 24th. (41)	Weather 1h.–7h. 24th (42)
$r_o m_o c$	ccm_o	cm_o	cm_o mm$_o$
$cm_o cz_o$	cz_o	$cm_o m_o cm$	$cm_o cid_o m_o$
$cid_o c$	cz_o	$c2_o m_o$	cm_o
$cid_o c$	$cbcm_o b$	$bbccm_o$	cm_o
ccm_o	cz_o	$c2_o m_o bm_o$	$bcm_o cm_o$
$cid_o m_o c$	c	ccm_o	$cm_o z_o$
$cd_o d_o m_o cid_o c$	c	cm_o	cm_o
$cd_o d_o c$	c	c	cm_o
$cd_o d_o c$	c	cbc	$bm_o cm_o$
$bid_o c$	c	$cbcb$	bcc
$cd_o d_o m_o cid_o c$	c	$cbcbm_o$	bcf
$cbcby$	byb	bcb	$bfbm_o$
cbz	bz	mz	bzm_o
$d_o d_o cm_o$	$cm_o cbc$	bzm_o	$bm_o mfffv$
$d_o d_o cm_o$	$cm_o cbc$	bzm_o	$bm_o mfffv$
$crmcrzbz_o$	$byzbcy$	$cz bm_o$	$bcw_o m_o$
com_o	$cbcco$	$cm_o c$	cm_o
$cm_o cz_o$	$bz_o bcz_o bz_o$	$cz_o bcm_o cm_o$	$cm_o wfdcdc$
c	c	co	cc
cm_o	cm_o	$cm_o m_o bm_o wcm_o w$	
$fmcbc$	bc	$bc2oc$	$mc2oc$
$bbcc$	c	$cbcw$	cw
$ffcm_o$	$bcmf$	feF	$offcm_o$
$bbcbm_o$	$bbcbz_o$	$bm_o bf$	$cfido$
$ffcz_o$	$bcz_o y$	$bc_o bm$	$b_o cf$
$cm_o bz_o$	$bz_o y$	$b2_o m$	$bm_o w$
c	bc	b	c
$cm_o bc_o bz_o$	$bz_o y$	bf	$bcmbm$
bc	bcb	bc	bm
$cddfcidgbc$	bcb	$bbccbc$	$cbccm_o$
$bzfwbcm_o bz_o$		$bzobm_o gwmwbmwfgcm_o$	
bc	bc	$bccm_o$	$bcbfm$
bczoby	b	b	b
cm_o	$cm_o c$	ccm_o	$cm_o c$
bc	c	$bccm_o$	$cidoo$
by	$b_o c$		cf
bbcb	b	$bbcb$	bwm_o
d	b	bc	$bcfgbc$
bcc	c	bc	$bm_o bcm_o$
c	c	c	a
c	b	f	f
cm_o	$bcz_o z_o$	bm_o	$bmbcm_o$
bc	c		bc
d	c	c	c
f	b	b	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 24th July 1943

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
13A	W. Scotland ...
13B	N.W. Scotland
14	Mid Scotland
15	N.E. Scotland

Light variable winds; cloudy at first, cloud breaking early except on coasts; fair or fine later; mist locally towards dawn; rather warm by day; cool at night.

Light variable winds; fair with well broken cloud inland dispersing at night; low cloud persisting locally near coasts; fog patches forming late in night; dispersing early tomorrow; rather warm and close by day, cool at night.

Winds light variable mainly southerly; cloudy with local drizzle at first; thundery rain with risk of local thunderstorms later; close.

Winds light variable becoming mainly southerly; fair at first with local thundery rain and thunderstorms late in period; local fog patches at night; rather warm today; cool tonight.

16 Orkneys and Shetlands 17 N.W. Ireland	As 13A - 13B.
18 N.E. Ireland 19 S.E. Ireland	As 14 - 15
20 S.W. Ireland	As 13A - 13B.

GENERAL INFERENCE

Pressure is very uniform in the neighbourhood of the British Isles; A shallow trough of low pressure is approaching West Ireland from the Atlantic.

FURTHER OUTLOOK

Mainly fair in South and East England; cloudy with occasional thundery rain elsewhere.

Forecasts issued at 10-30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday 24th July. 1943.

LOW

HIGH

1014 1016 1018 1020

10° 5°W. 0° 5°E. 10°

60° 55° 50°

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3 hours in mbs.

Weather in past hour

Past weather

Scale 1.: 5,000,000

Mb. In

1050 1040 1030 1020 1010 1000 990 980 970 960 950 940 930

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Saturday, 24th July

1943.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 24th July 1943 — No. 29829

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	58									
	Croydon ...	290	20·9	-4	—	0	m	57	92	55	4	5	2	-	9	10	1700
	S. Farnborough	226	20·2	-6	—	0	Zo	56	85	53	6	5	-	-	10	10	2400
	Boscombe Down	417	20·2	-6	—	0	Zo	56	85	52	6	5	-	-	10	10	1000
	Thorney Island	10	20·1	-2	—	0	Zo	53	97	52	5	5	-	-	10	10	2100
	Lympne ..	283	20·2	-2	ENE	2	Zo	56	85	52	6	5	-	-	9+	9+	2700
	Manston ...	154	20·2	-2	NE	1	Zo	57	85	53	6	5	-	-	10	10	1000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ..	12	20·4	-4	NNE	1	bc	57	85	52	7	5	-	-	4-6	4-6	2500
	Gorleston ...	5	20·5	-2	NW	1	b	49	92	47	7	1	-	-	1	1	2500
	Mildenhall ...	15	20·2	-6	—	0	m	45	97	44	4	5	-	-	1	1	2500
	Cranwell ...	203	20·3	-4	—	0	Zo	46	97	46	6	—	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	20·2	-2	SW	1	Zo	51	92	49	5	—	-	1	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·4	-4	N	2	c	59	85	54	6	5	-	-	10	10	1500
	Bristol	209	19·7	-2	—	0	m	59	97	58	4	5	-	-	10	10	400
	Portland Bill ...	32	19·7	-4	m	2	0	59	85	55	7	5	-	-	10	10	2500
	Plymouth ...	86	20·1	-6	NNW	1	Zo	57	97	56	5	5	3	2	7-8	9	1200
	The Lizard ...	240	19·9	0	—	0	c	59	97	58	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	20·7	-2	—	0	c	58	97	57	7	6	-	-	10	10	1200
	Guernsey ...	175															
6	Pembroke ...	142	20·2	0	—	0	f	57	97	57	1	—	-	-	10	10	150
7	Holyhead (Valley)	32	19·3	-2	—	0	bf	56	97	56	3	—	-	-	0	0	-
	Chester (Sealand)	16	18·7	-2	—	0	m	52	92	50	4	—	-	-	0	0	-
8	Manchester ...	230	19·2	0	SE'S	1	Zo	54	85	49	5	—	-	-	0	0	-
10	Spurn Head ...	29	21·1	-4	SSE	1	b	52	85	48	7	—	-	-	0	0	-
	Catterick (Sc)...	192	21·2	-2	—	0	bf	44	97	44	3	-	-	-	0	0	-
	Tynemouth ...	108	21·1	-4	SE	2	b-bc	52	85	48	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	18·9	+2	SE	3	b-bc	49	92	47	7	5	-	-	2-3	2-3	4000
	Leuchars ...	36	19·9	-2	—	0	Zo	52	92	49	6	5	3	8	2-3	9	2500
12	Renfrew (Abbotsl.)	19	19·4	0	—	0	m	52	92	49	4	-	-	-	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
	Point of Ayre...	30	19·2	0	N'N	1	b	52	92	49	7	—	-	-	0	0	-
13A	Tiree	44	19·8	-2	-	0	Zo	57	92	55	6	5	-	-	10	10	800
13B	Stornoway ...	12	19·8	-4	—	0	Zo	57	85	53	6	5	-	-	10	10	1300
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	19·8	-6	—	0	bjf	43	92	41	6	5	-	1	Tr	1	2000
	Wick ...	114	20·2	-4	—	0	b-bc	50	92	47	8	5	-	-	2-3	2-3	1500
16	Sumburgh ..	19	20·0	-2	—	0	b	47	97	46	8	—	-	1	0	1	-
17	Blacksod Point	18	19·2	-2	—	0	c	60	92	58	7	5	-	-	10	10	2500
18	Malin Head ...	84	19·2	-8	NE	1	df	55	97	55	2	-	-	-	10	10	150
	Aldergrove ...	268	19·3	-2	—	0	Zo	52	92	50	6	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	19·7	-2	SSW	1	c	57	92	55	7	5	-	-	9+	9+	1500
	Roches Point	22	18·9	C	N	1	b	58	92	56	8	5	-	-	1	1	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	19·6	+4	—	0	Zo	57	85	53	5	5	2	-	9+	10	2500	1	*
	Croydon ...	20·7	+4	—	0	Zo	57	92	56	5	5	-	-	10	10	2000	0	*
	S. Farnborough	19·6	+4	—	0	Zo	57	85	54	5	5	-	-	10	10	1600	0	*
	Boscombe Down	19·9	+4	—	0	Zo	55	92	53	6	5	-	-	10	10	1400	0	*
	Thorney Island	19·4	+2	—	0	Zo	58	85	53	6	5	-	-	9+	9+	3500	0	*
	Lympne ..	19·7	+2	NE	2	Zo	59	75	52	6	5	-	-	2-3	7-8	2000	0	2
	Manston ...	19·6	+2	ESE	1	Zo	60	75	53	6	5	3	-	4-6	7-8	2000	0	*
2	Shoeburyness ...	20·0	0	N	1	Zo	57	92	54	5	5	-	-	10	10	2500	1	*
	Felixstowe ..	20·2	+6	N	1	Zo	57	92	54	6	-	3	-	0	9+	-	0	1
	Gorleston ...	20·2	+2	NW	1	Zo	52	85	50	6	5	-	-	7-8	7-8	1500	0	2
	Mildenhall ...	20·0	+4	—	0	mf	50	97	49	4	5	-	-	4-6	4-6	4000	0	*
	Cranwell ...	19·7	+2	—	0	Zo	54	92	52	6	-	-	1	0	Tr	-	0	*
3	Birmingham ...	19·3	+2	SSW	2	m	55	97	54	4	5	-	-	10	10	450	0	*
	Upper Heyford	19·8	+2	—	0	bf-	48	97	47	3	-	-	-	0	0	-	0	*
4	Ross-on-Wye	18·7	0	SW	1	Zo	59	92	56	5	5	-	-	10	10	800	0	*
5	Hartland Point	18·7	+2	S	2	Zo	58	92	55	6	5	-	-	9	9	1800	0	2
	Bristol	19·7	+6	SW	1	9/d	58	97	58	6	5	-	-	10	10	700	1	*
	Portland Bill ...	19·5	+6	S	2	0	60	85	56	7	5	-	-	10	10	2500	1	3
	Plymouth ...	19·6	-2	—	0	Zo	59	85	56	6	5	2	-	4-6	9+	1500	0	1
	The Lizard ...	19·0	0	N	2	Zo	59	97	59	6	5	-	-	10	10	1500	0	2
	Scilly (St. Mary's)	19·4	0	—	0	C	59	97	58	6	5	-	-	10	10	800	0	1
	Guernsey ...																	
6	Pembroke ...	19·3	0	—	0	c	59	92	57	6	5	2	-	4-6	9+	2000	0	2
7	Holyhead (Valley)	18·9	0	SSW	1	9/d	57	97	57	6	5	-	-	10	10	500	1	1
	Chester (Sealand)	18·6	+4	—	0	mf	53	92	51	4	7	-	-	4-6	4-6	3000	0	*
8	Manchester ...	18·8	0	—	0	Zo	55	92	53	5	-	3	-	0	Tr	-	0	*
10	Spurn Head ...	20·3	+2	E	1	ebc	55	85	51	7	7	3	-	4-6	7-8	2500	0	2
	Catterick (Sc)...	20·2	-8	SSE	1	Zo	50	92	48	5	-	-	-	0	0	-	0	*
	Tynemouth ...	20·8	+6	WSW	2	m	50	92	47	4	-	4	-	0	2-3	-	0	3
11	St. Abbs Head	18·5	+2	—	0	b-bc	53	85	50	6	5	-	-	2-3	2-3	4500	0	3
	Leuchars ...	18·9	-2	—	0	Zo	52	97	50	5	5	3	9	2-3	7-8	300	0	*
12	Renfrew (Abbotsl.)	18·9	0	—	0	Zo	52	92	50	5	-	-	-	0	0	-	0	*
	Eskdalemuir ...	18·8	0	—	0	mfs	50	92	47	4	-	-	-	0	0	-	0	*
	Point of Ayre...	18·4	0	—	0	b	58	97	57	7	-	-	-	0	0	-	0	0
13A	Tiree	18·7	-6	E	1	c	57	75	50	8	5	-	-	10	10	1000	1	1
13B	Stornoway ...	18·5	-6	—	0	9/d	57	85	54	7	5	-	-	10	10	2000	0	0
		19·0	-2	—	0	f	53	97	52	2	-	-	-	10	10	150	0	*
15	Dalwhinnie ...																	
	Aberdeen † ...	19·1	+2	NNW	2	b-bc	45	85	40	5	5	-	-	2-3	2-3	800	0	1
	Wick ...	19·2	-2	—	0	b-bc	54	85	50	8	5	3	-	1	2-3	1500	0	*
16	Sumburgh ..	19·1	-4	NE	1	c	52	85	48	8	5	-	-	9+	9+	2000	0	2
17	Blacksod Point	18·4	+2	—	0	c	60	92	58	7	5	-	-	9+	9+	2500	0	1
18	Malin Head ...	18·0	-4	E'N	2	f+	55	97	54	2	-	-	-	10	10	150	0	1
	Aldergrove ...	18·9	+2	—	0	Zo	59	85	55	6	-	7	-	0	4-6	-	0	*
19	Birr Castle ...	17·9	-4	SW	1	c	61	85	56	8	5	2	-	7-8	10	2500	0	*
20	Valentia Obsy.	18·8	+2	SSE	1	c	57	85	52	8	5	-	-	9+	9+	4000	0	1
	Roches Point	18·1	0	W	2	c	58	92	56	8	5	-	-	9+	9+	1500	0	2

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 23rd G.M.T. (38)
1	London (Kew)	59	56	55	Tr	-	0·0
	Croydon ...	60	56	55	-	Tr	0·0
	S. Farnborough	60	55	54	Tr	-	0·0
	Boscombe Down	63	51	50	Tr	-	4·5
	Thorney Island	63	51	47	-	-	*
	Lympne ..	61	55	52	Tr	-	0·0
	Manston ...	61	57	51	0·1	-	0·0
2	Shoeburyness ...	62	56	57	Tr	-	0·0
	Felixstowe ..	61	49	46	-	-	0·6
	Gorleston ...	59	48	45	Tr	-	0·0
	Mildenhall ...	62	42	37	Tr	Tr	0·9
	Cranwell ...	70	42	35	-	-	10·2
3	Birmingham ...	70	51	41	-	-	10·3
	Upper Heyford	61	45	34	Tr	-	*
4	Ross-on-Wye	74	55	49	Tr	-	6·9
5	Hartland Point	63	57	55	-	-	1·9
	Bristol	73	58	51	-	Tr	9·7
	Portland Bill ...	62	57	*	-	-	*
	Plymouth ...	66	56	47	-	-	4·8
	The Lizard ...	67	57	*	Tr	-	7·8
	Scilly (St. Mary's)	66	57	*	-	-	5·0
	Guernsey ...						
6	Pembroke ...	70	54	*	-	-	3·1
7	Holyhead (Valley)	72	49	36	-	Tr	*
	Chester (Sealand)	75	50	42	-	-	7·3
8	Manchester ...	71	48	41	-	-	*
10	Spurn Head ...	63	51	*	-	-	6·8
	Catterick (Sc)...	68	41	38	-	-	8·7
	Tynemouth ...	58	49	48	-	-	*
11	St. Abbs Head	66	47	*	-	-	*
	Leuchars ...	67	45	40	Tr	-	9·0
12	Renfrew (Abbotsl.)	73	45	41	-	0·1	10·2
	Eskdalemuir ...	71	42	36	-	-	10·8
	Point of Ayre...	70	48	*	-	-	10·7
13A	Tiree	63	55	55	-	-	0·0
13B	Stornoway ...	63	60	54	-	Tr	8·9
15	Dalwhinnie ...	75	47	36	-	-	11·2
	Aberdeen † ...	59	40	31	-	-	14·1
	Wick ...	57	44	40	-	-	*
16	Sumburgh ..	56	45	33	-	-	7·5
17	Blacksod Point	65	56	*	-	-	*
18	Malin Head ...	61	53		-	0·1	8·3
	Aldergrove ...	75	49	44	-	-	10·2
19	Birr Castle ...	78	58	54	-	-	7·5
20	Valentia Obsy.	64	55	51	Tr	Tr	0·9
	Roches Point	66	58		Tr	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 23rd July ... 18h. G.M.T. — 01h. G.M.T. 24th July ... 07h. G.M.T.

III	C_L	C_M	wwVhN$_h$	DDFWN	C_L	C_M	wwVhN$_h$	DDFWN	C_L	C_M	wwVhN$_h$	DDFWN
109	10		10352	10202	00		01990	11301	54		01763	18313
115	54		01864	00014	52		09736	12148	52		02844	20127
203	50		09742	16212								
206	50		01861	10221	13		01862	06214	5-		02956	00016
210	8-		01890	05311	03		01890	12211	50		01753	20213
219	52		03844	24358	5-		02847	24127	5-		02748	14128
280	50		05762	20222	50		05661	20301	00		05690	00000
245	00		00890	12301	50		01761	12301	04		01690	00001
260	00		05690	04120					00		08490	04100
278	7-		02765	29225	00		01790	24210	00		05690	24100
279	20		01751	30211	00		17690	23201	00		05590	04210
285	10		01853	12313								
288	5-		05643	04213	00		05690	04300	00		05590	20100
575	16		05761	00013	57		02874	00025	5-		05656	14116
301	00		05690	26310	00		05690	25301	00		05590	07200
321	00		00890	30120	00		00790	09300	00		05690	00010
299	5-		02757	32327	00		00790	32300	40		01762	20202
282	00		06790	00010					00		00790	00000
310	--		03634	08214								
614	00		00790	04100	00		00790	08100	00		05690	04100

13h. G.M.T. 23rd July ... 18h. G.M.T. — 01h. G.M.T. 24th July ... 07h. G.M.T.

III	C_L	C_M	wwVhN$_h$	DDFWN	C_L	C_M	wwVhN$_h$	DDFWN	C_L	C_M	wwVhN$_h$	DDFWN
388					--		05690	27210	--		46209	04149
334	--		05563	06203								
340	00		05690	00000	00		05690	20100	00		08490	14200
1365	-		02847	02227	00		01890	03323	00		00790	08100
336	50		01755	08315								
850	5-		05648	00058	50		05653	08123	00		47390	00000
368	10		05661	10111	00		05690	28110				
379					00		05690	10210	00		05690	00000
390	5-		02658	30228	5-		05657	32127	5-		05557	00028
382	5-		05658	02128	50		01753	10123	00		08490	00010
438	52		02656	06218					82		02744	12228
430	52		05636	03128	5-		05657	32127	5-		05657	00027
409	50		05644	28314	50		05626	29116	--		05547	00027

	C_L	C_M	wwVhN$_h$	DDFWN
388				
334	--		03537	00028
340	00		47290	14140
1365	00		00790	10100
336	--		46309	04249
850	00		08590	00050
368				
379	5-		08427	22127
390	5-		08458	02148
382	5-		41543	00044
438	82		02744	10228
430	5-		05547	02127
409	2-		05644	00025

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 24th July

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	1c mo c	cc mo	c mo mm o	Kew: 7 hours ending 7h. Max. Time 24th
Croydon ...	c mo c 2o	c 2o	c mo ld o mo	Min. Time 23rd 9-14h
Greenwich ...	c	c	c ro c	
Camden Square ...	c	c	*	0·3
Kensington ...	c	c	*	
Hampstead ...	0	0	0	0·1

Stations.	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 % (Yesterday)	Humidity 9h % (To-day)
Kew ...	59	56	55	Tr	-	0·0	*	*
Croydon ...	60	56	55	-	Tr	0·0	*	*
Greenwich ...	61	55	53	-	Tr	0·1	76	80
Westminster ...	61	56	55	-	-		85	89
Regents Park ...	60	56	55	-	-		73	85
Camden Square ...	60	55	55	-	-	*	*	84
Kensington ...	59	56	54	-	-		79	86
Hampstead ...	58	53	50	-	-		*	89

SECRET

Page 1

THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 25th July 1943 — No. 2230

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18·4	-10	ESE	1	z₀	64	75	55	6	5	–	–	2+	2+	4000
	Croydon ...	18·6	-8	SW	1	c	65	85	54	6	3	–	–	7-8	10	2500
	S. Farnborough	18·2	-10	S'E	1	z₀	66	65	53	6	5	–	–	2+	2+	2500
	Boscombe Down	17·8	-14	NNW	1	b-bc	70	55	52	7	1	–	–	2-3	2-3	2500
	Thorney Island	18·5	-6	SE'S	2	c-bc	66	65	54	7	5	–	–	7-8	7-8	3500
	Lympne ...	19·1	-8	ESE	2	z₀	59	75	53	6	5	–	–	4-6	10	2000
	Manston ...	18·3	-6	NNE	1	z₀	63	65	52	6	5	–	–	2+	2+	2800
2	Shoeburyness ...	18·2	-10	ESE	1	c	63	78	55	7	5	–	–	10	10	4000
	Felixstowe ...	19·0	-8	SSE	3	b-bc	66	75	59	7	1	–	–	2-3	2-3	2500
	Gorleston ...	19·5	-6	ESE	2	b	60	78	50	6	–	–	–	0	0	–
	Mildenhall ...	17·9	-14	–	0	b	72	45	52	8	1	–	–	Tr	Tr	2500
	Cranwell ...	17·5	-14	–	0	b	73	45	51	7	1	–	1	Tr	Tr	3500
3	Birmingham ...	17·3	-8	SE	2	b	70	55	54	8	1	–	–	Tr	Tr	4000
	Upper Heyford	17·5	-14	E	1	z₀	71	45	56	6	–	–	–	0	0	–
4	Ross-on-Wye	18·0	-6	SSW	2	z₀	62	85	58	5	5	–	–	10	10	800
5	Hartland Point	18·2	-4	W	3	b-bc	63	85	57	7	1	–	–	2-3	2-3	3000
	Bristol ...	18·5	-8	WSW	1	z₀	64	95	58	6	5	–	–	10	10	1200
	Portland Bill ...	18·8	-2	W	2	c	61	85	58	7	5	–	–	10	10	2500
	Plymouth ...	18·5	-10	SSW	3	z₀	63	85	58	6	5	2	–	9	9+	1600
	The Lizard ...	18·8	-4	WSW	3	z₀	64	85	59	5	5	–	–	10	10	1500
	Scilly (St. Mary's)	19·1	-2	NE'N	2	c	60	85	52	6	5	–	–	10	10	800
	Guernsey ...															
6	Pembroke ...	18·5	-6	–	0	c	64	75	57	7	2	6	–	4-6	9+	2500
7	Holyhead (Valley)	18·4	-4	SSW	2	z₀	65	75	56	6	3	–	–	7-8	7-8	1500
	Chester (Sealand)	17·3	-6	NW'W	3	b-bc	69	75	59	6	5	–	–	2-3	2-3	3500
8	Manchester ...	17·4	-6	WSW	2	z₀	71	65	50	6	5	–	–	2-3	2-3	5700
10	Spurn Head ...	18·9	-12	SE	3	b-bc	62	65	52	8	–	3	–	0	2-3	–
	Catterick (Sc.) ...	17·3	-18	SSE	1	z₀	73	55	54	6	–	–	–	0	0	–
	Tynemouth ...	19·7	-4	SE	3	b	60	75	51	7	–	–	–	0	0	–
11	St. Abbs Head	17·6	-6	ESE	3	bc	61	75	53	6	2	4	–	4-6	4-6	3500
	Leuchars ...	17·9	-6	ENE	3	b	64	55	49	6	–	–	–	0	0	–
12	Renfrew (Abbotsl.)	16·7	-12	–	0	z₀	74	55	56	6	2	–	–	2-3	2-3	2500
	Eskdalemuir ...	16·4	-10	–	0	z₀	71	55	52	6	2	–	–	2-3	2-3	2900
	Point of Ayre ...	17·9	-4	WNW	3	z₀	63	75	56	7	–	–	–	0	0	–
13A	Tiree	18·0	-4	S	1	z₀	60	92	57	6	5	–	–	2+	2+	400
13B	Stornoway ...	17·7	-2	SSE	3	c	61	85	56	8	5	3	–	7-8	9	2200
15	Dalwhinnie ...	17·8	-6	N	2	bc	73	55	55	7	8	–	–	4-6	4-6	2500
	Aberdeen ...	18·3	-8	SSE	2	b	61	75	51	8	5	–	–	Tr	Tr	1500
	Wick ...	18·4	-2	SE	2	b	59	85	53	8	5	–	–	Tr	Tr	1000
16	Sumburgh ...	18·5	-2	SW	3	b-bc	56	85	52	9	7	4	1	2-3	2-3	5000
17	Blacksod Point	18·0	-2	SW'W	2	c-bc	62	75	54	7	8	–	–	7-8	7-8	2500
18	Malin Head ...	17·3	-8	E	1	z₀	57	92	55	6	5	–	–	9	9	800
	Aldergrove ...	17·0	-10	WNW	1	z₀	72	65	59	6	8	4	–	4-6	4-6	3000
19	Birr Castle ...	17·1	-8	WNW	1	c	72	65	61	8	4	–	8	7-8	9	2500
20	Valentia Obsy.	18·2	-6	SW'S	3	c	64	65	53	8	5	–	1	9	9+	4000
	Roches Point	17·9	-4	WSW	3	c-bc	64	75	56	8	5	–	–	7-8	7-8	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°Temp. (21)	% Humid. (22)	°Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	16·5	-14	E'S	1	z₀	69	55	53	6	–	–	–	0	0	–	1	*
	Croydon ...	17·9	-8	SW	1	bc	67	65	55	7	5	–	–	4-6	4-6	3000	0	*
	S. Farnborough	16·7	-12	SSW	2	z₀	67	65	56	6	4	–	–	Tr	Tr	3500	0	*
	Boscombe Down	16·8	-6	S	1	z₀	65	55	48	6	5	–	–	4-6	7-8	1400	0	*
	Thorney Island	17·3	-10	S'E	2	b	63	75	56	8	5	–	–	Tr	Tr	4000	0	*
	Lympne ...	17·9	-10	SE	2	b	59	85	53	7	1	–	–	Tr	Tr	2500	0	§2
	Manston ...	17·4	-14	SE'S	2	z₀	61	75	53	6	–	–	–	0	0	–	0	*
2	Shoeburyness ...	17·8	-6	SE	1	z₀	64	75	57	6	–	–	–	0	0	–	0	*
	Felixstowe ...	17·7	-12	SE	2	b	63	85	57	7	–	–	–	0	0	–	0	3
	Gorleston ...	18·1	-8	SE	3	b	61	85	55	7	–	–	–	0	0	–	0	2
	Mildenhall ...	15·9	-12	W'S	3	b	73	55	53	7	4	–	–	1	1	4000	0	*
	Cranwell ...	16·1	-10	SE	2	b	70	35	43	8	–	–	1	0	Tr	–	0	*
3	Birmingham ...	15·9	-10	SW	1	c	71	55	56	6	7	–	–	Tr	9	4000	0	*
	Upper Heyford	15·6	-6	SSW	1	z₀	74	45	59	6	5	–	–	2-3	2-3	4800	0	*
4	Ross-on-Wye	16·5	-10	W'S	2	z₀	66	85	60	6	5	–	–	2-3	2-3	2000	0	*
5	Hartland Point	17·2	-6	NNW	2	c	62	85	58	7	5	–	–	9	9	2700	0	3
	Bristol ...	17·5	-8	W'S	3	c	64	85	58	7	5	–	–	10	10	3800	0	*
	Portland Bill ...	17·0	-6	W	2	0	61	92	59	7	5	–	–	10	10	2500	1	3
	Plymouth ...	17·4	-10	SSW	2	z₀	63	85	58	6	5	3	–	7-8	9	1500	0	1
	The Lizard ...	17·1	-8	W	2	z₀	63	85	58	5	5	–	–	9+	9+	1500	0	2
	Scilly (St. Mary's)	17·9	-6	E'N	2	c	65	75	58	7	5	3	–	7-8	9+	1200	0	1
	Guernsey ...																	
6	Pembroke ...	17·9	-2	–	0	z₀	61	75	47	7	2	6	–	2-3	4-6	3000	0	2
7	Holyhead (Valley)	17·1	-12	SW	2	b	62	75	55	7	–	–	–	0	0	–	0	1
	Chester (Sealand)	16·4	-6	NW'W	2	c	63	85	57	6	5	3	8	2-3	9	4000	0	*
8	Manchester ...	13·2	-1	NW	3	z₀	67	75	57	6	–	3	–	0	1	–	0	*
10	Spurn Head ...	17·6	-6	SE'E	3	b	60	75	51	7	–	–	–	0	0	–	0	3
	Catterick (Sc.) ...	16·8	+2	NE	1	m	67	65	57	4	5	–	–	4-6	4-6	3000	0	*
	Tynemouth ...	16·4	-2	SSE	3	b-bc	58	85	53	7	–	7	–	0	2-3	–	0	3
11	St. Abbs Head	16·1	-4	SE	4	bc	56	85	52	7	5	–	–	4-6	4-6	4000	0	3
	Leuchars ...	16·6	-8	ENE	3	b	61	75	54	6	–	–	1	0	Tr	–	0	*
12	Renfrew (Abbotsl.)	15·2	-10	SW	2	bc	74	35	45	8	1	4	2	4-6	4-6	2500	0	*
	Eskdalemuir ...	15·1	-10	SSW	2	z₀	72	55	55	6	2	4	–	Tr	Tr	3500	0	*
	Point of Ayre ...	16·4	-8	W'S	3	b	64	85	58	7	–	–	1	0	Tr	–	0	0
13A	Tiree	16·8	-8	W	1	c-bc	61	85	57	7	5	–	–	7-8	7-8	600	1	1
13B	Stornoway ...	16·3	-6	–	0	c	55	85	55	8	5	7	–	2-3	10	1800	0	1
15	Dalwhinnie ...	15·5	-8	N	2	c	66	75	58	7	5	1	–	7-8	9+	2500	0	– *
	Aberdeen ...	17·3	-10	SSE	2	b	58	75	50	8	5	–	–	Tr	Tr	1500	0	1
	Wick ...	17·0	-8	SE	2	b-bc	57	85	54	9	–	8	1	0	2-3	–	0	*
16	Sumburgh ...	17·0	-6	SW'W	2	c	56	92	54	8	3	–	–	9+	9+	3000	0	1
17	Blacksod Point	17·6	-4	W	2	c-bc	61	75	53	8	5	5	–	7-8	7-8	2500	0	2
18	Malin Head ...	16·7	-4	N	1	c	60	92	58	6	5	–	–	9+	9+	800	0	1
	Aldergrove ...	15·8	-10	SSW	1	z₀	71	65	58	6	8	3	–	4-6	4-6	2500	0	*
19	Birr Castle ...	15·3	-10	ENE	1	bc	73	65	62	8	2	–	8	4-6	4-6	2500	0	*
20	Valentia Obsy.	18·2	+2	W'N	3	bc	62	65	51	8	5	3	–	4-6	4-6	4000	0	2
	Roches Point	16·7	-8	SW	3	b	63	85	59	8	–	–	–	0	0	–	0	3

PAST 24 HOURS.

Weather. 7h.—13h. 24th. (39)	13h.—18h. 24th. (40)	18h.—24h. 24th. (41)	1h.—7h. 25th. (42)
mid, c m₀	c b z y	bb c m o w	b f m o w
c m₀ c z₀	c z	b c m₀	b m o w
c m₀ z₀	c z b z	b z₀ b b m o w	b m o w f g
c m₀ c b c	b c c m₀	c b c m₀ b c f	b c f b f f m o m₀
c m₀ w c m₀ c	c b c	b w c m o w	o c m o w b m₀
c z₀	c z c	b b m o w	b m o b w
b c z₀ c z₀	c b z₀	b m o w	b c m o w b m₀
c m₀ c	c b c b z₀	b z o m	b m f
c m₀ b z₀ b c	b c b	b b y b	b m₀ c m o c
b	b	b w	b
b c c y b y	b y b c y b y	b c m₀ b m₀	b m₀ b m b m₀
b m₀ b y	b y	b	b m f f g b f
o m b	b, c	c b z	b w f
o f c z₀ y	b z y	b z o y b m₀	b m₀ O F
o m₀	o m₀ b m	o m	b f w F
c b c	b c c	c b c b	b b c
b m₀ c m₀	c m₀	c b b m₀ w	o m o w b f w
o	o	o	c
c m₀ b c c	c m₀	c m o w	b c m₀
c z	c z	b c z b	b b c b w
c	c	c b c b w	
c b c m₀	b c z₀	b c	c
c b m₀ b w	c b m₀	c m o m	c m
b m₀ b c z₀	b z c z₀	c m₀ b f f	o f f w
b m₀ z₀	b c y b z₀		
c	b	b	b z o
b m₀	b z y b z	c m	b c m₀ b m
b c m₀ b	b b c	b c b m₀	b o m₀
b f b c m₀	b c m	b c c m₀	b c m₀ o f
c b m₀ b b m₀	b z₀ b z₀	b z o b c m₀ c m₀ c m₀	
b m₀ b m b z y	b z y b e y	b c y z₀ m₀ w f g c m₀ w b m₀ w	
b z₀ b c y z₀	b u y z₀ b y	b c z o m f	b o f d o d o
b m	b	F F	f o f f
c m₀ b c m₀	b c m₀ b m₀		
c z₀	c	c m₀ b c m₀	b c m₀ o c m₀ c f
c	c	c c i d o c	c b c c
F b c	b c c		c p r o
b m₀ b c b	b	b b c w	b c w c
c b c b	b	b c	b c c b c
b b c	b c c c	c b c	b c
c	c	b c	c
f	b c	b c	b
b c m₀ c m₀ b c	b b c m₀ c m₀ w	b c m₀ b m₀	b m o w f g b f g m₀
c	b c	b c	c
c	b c	b c	f
c	b c	f	f

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 25th July 1943

Districts	
1 S.E. England 2 E. England .. 3 E. Midlands ...	Light variable winds, finally southwesterly light to moderate; fine apart from some local morning fog temporarily; warm.
4 W. Midlands 5 S.W. England South Wales	Winds freshening slowly from south to southwest; fine at first, cloud increasing; some rain and drizzle tomorrow; some hill fog later; warm today, close tomorrow.
7 North Wales 8 N.W. England 9 N. Midlands ...	Light variable winds, becoming southerly moderate to fresh; fair today; cloud increasing with rain spreading from west; close.
10 N.E. England 11 S.E. Scotland	Light southwest winds, freshening later; fine or fair today; cloudy with some rain tomorrow; warm today.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland	Winds slowly freshening from a southerly point; fair today; cloud increasing with rain spreading from west; conditions improving later in period; very warm at first, then cooler.
15 N.E. Scotland	Moderate southeast to south winds, increasing fresh or strong;
16 Orkneys and Shetlands	cloudy to overcast; rain at times tomorrow; rather cool.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Freshening southerly winds, veering southwest to west tomorrow; cloud increasing rain spreading from the west; fair periods with local showers in the west tomorrow; warm at first becoming much cooler tomorrow.

GENERAL INFERENCE

An anticyclone covering most of England and Wales is decreasing in intensity; a deep depression is moving east toward the Faeroes and an associated trough will move in over the British Isles with rain spreading to many western and northern districts; in the South and East weather will be fine and warm, with some local early morning fog.

FURTHER OUTLOOK

Cloudy with some rain in the Southeastern half of the British Isles, but amounts probably small; cooler westerly conditions becoming general

Forecasts issued at 10-30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Sunday, 25th July 1943 1943.

Low

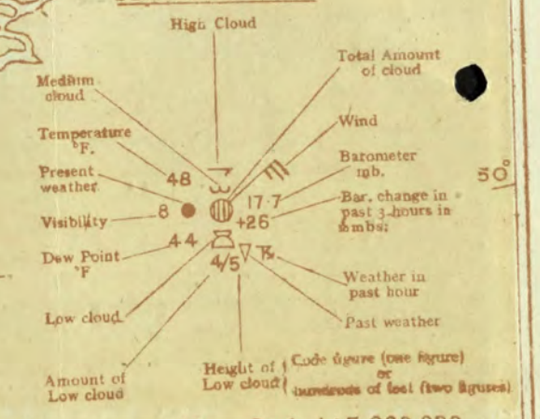
HIGH

1008 1010 1012 1014 1016 1018

5°W. 0° 5°E.

60° 55° 50°

STATION MODEL



5°E. Scale 1: 5,000,000.

Mb In
1050
1040
1030
1020
1010
1000
990
980
970
960
950
940
930

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Sunday 25th July

1943.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

THE DAILY WEATHER REPORT
BRITISH SECTION — OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 25th July 1943 — No. 29330

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	56	*	*	*	*	*	*	*	*	*
	Croydon ...	290	18·2	-2	–	0	b	54	91	54	5	–	–	–	0	6+	–
	S. Farnborough	226	17·3	-6	SSW	1	2o	55	92	53	6	–	–	–	0	0	–
	Boscombe Down	417	17·7	-2	–	0	bc f-	55	97	55	3	5	–	–	4-6	4-6	1500
	Thorney Island	10	17·6	-2	–	0	bc	55	97	54	7	8	–	–	4-6	4-6	2600
	Lympne ..	283	17·7	-6	–	0	2o	51	97	50	6	–	–	–	0	0	–
	Manston ...	154	17·7	+2	–	0	2o	53	92	51	5	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	17·6	-6	S'E	1	2o	60	85	54	6	–	–	–	0	0	–
	Gorleston ...	5	17·7	-6	SSW	1	b	57	92	54	7	–	–	–	0	0	–
	Mildenhall ...	15	17·1	+2	SE	2	2o	55	92	53	6	–	–	–	0	0	–
	Cranwell ...	203	17·0	-2	–	0	b	51	97	50	8	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	16·9	+2	–	0	2o	56	97	54	5	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17·5	0	NNW	2	b	59	85	55	7	–	–	–	0	0	–
	Bristol ...	209	17·6	+2	SW	1	2o	53	97	53	5	–	–	–	0	0	–
	Portland Bill ...	32	17·5	+2	W	2	0	60	92	58	7	5	–	–	10	10	2500
	Plymouth ...	86	18·0	+2	–	0	2o	60	85	57	5	5	–	–	9+	9+	2500
	The Lizard ...	240	18·0	+8	N	3	bc	56	97	55	6	4	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	18·6	+2	N	2	2o	56	97	56	6	–	–	–	0	0	–
	Guernsey ...	175															
6	Pembroke ...	142	18·2	0	–	0	bc	57	92	55	8	8	6	–	2-3	4-6	2500
7	Holyhead (Valley)	32	17·5	0	SSW	2	b	56	92	54	7	–	–	–	0	0	–
	Chester (Sealand)	16	17·2	+4	–	0	m	57	92	56	4	5	–	–	9+	9+	2400
8	Manchester ...	230	17·0	+2	–	0	f+	55	97	54	2	–	–	–	10	10	7150
10	Spurn Head ...	29	17·6	-4	SE	3	b	57	92	56	7	–	–	–	0	0	–
	Catterick (Sc.) ...	192	17·3	0	SE	1	m	56	97	56	4	5	–	–	9	9	3000
	Tynemouth ...	108	17·8	-2	–	0	2o	56	92	54	6	–	–	–	0	0	–
11	St. Abbs Head	280	15·4	-6	SSE	2	c-bc	57	85	53	7	5	–	–	7-8	7-8	2500
	Leuchars ...	36	16·4	-6	–	0	2o	55	97	53	5	5	–	–	9+	10	400
12	Renfrew (Abbotsl.)	19	16·0	+2	–	0	m	53	92	51	4	–	–	–	0	0	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	16·8	+4	–	0	F	54	97	54	1	–	–	–	10	10	7150
13A	Tiree	44	15·9	-8	–	0	m	55	97	55	4	–	7	–	0	2-3	–
13B	Stornoway ...	12	14·8	-10	SSW	3	c	58	92	56	7	5	2	–	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	16·6	-2	SSE	2	2o	52	97	51	6	5	–	2	4-6	7-8	6000
	Wick ...	114	16·2	-10	SE	3	bc	54	92	52	7	5	3	–	2-3	4-6	2000
16	Sumburgh ..	19	16·1	-6	SW	1	b-bc	51	97	50	8	5	–	–	2-3	2-3	3000
17	Blacksod Point	18	16·0	-10	SW	1	b-bc	57	85	53	7	8	–	–	2-3	2-3	4000
18	Malin Head ...	84	16·3	-6	E	1	m	54	97	53	4	–	–	–	0	0	–
	Aldergrove ...	268	16·3	0	–	0	2o	56	85	53	6	5	–	–	Tr	Tr	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	7-8	7-8	4000
20	Valentia Obsy.	30	17·7	-2	NE'E	2	c-bc	53	92	51	8	5	–	–	7-8	7-8	1500
	Roches Point	22	17·0	+2	NW	3	c-bc	59	85	55	8	5	–	–	7-8	7-8	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12. (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	17·1	+2	–	0	2o	58	92	55	6	–	–	–	0	0	–	1	*
	Croydon ...	18·2	+2	S'E	1	2o	58	92	55	6	–	–	–	0	0	–	0	*
	S. Farnborough	17·0	+2	S'E	1	2o	57	92	55	5	–	–	–	0	0	–	0	*
	Boscombe Down	17·5	-2	–	0	2o	55	92	53	6	5	–	–	7-8	10	1100	0	*
	Thorney Island	17·0	+2	ENE	1	b-bc	60	85	56	7	5	–	–	2-3	2-3	2500	0	*
	Lympne ..	17·4	+2	E	1	b-bc	60	85	55	7	5	–	–	2-3	2-3	2000	0	1
	Manston ...	17·4	+2	–	0	2o	59	86	55	6	5	–	–	4-6	4-6	2000	0	*
2	Shoeburyness ...	18·0	+2	–	0	m/f	58	97	58	4	–	–	–	0	0	–	1	*
	Felixstowe ...	17·5	+2	3E'E	1	f	61	85	58	7	5	–	–	9+	9+	2500	0	1
	Gorleston ...	17·6	+14	SSE	3	bc	56	92	54	7	7	–	–	4-6	4-6	1500	0	2
	Mildenhall ...	16·7	-2	SE	1	2o	58	85	54	6	–	–	–	0	0	–	0	*
	Cranwell ...	16·8	+2	–	0	m/f	53	97	52	4	–	–	–	0	0	–	0	*
3	Birmingham ...	16·8	+2	NW	2	m/f	57	92	55	4	–	–	–	0	0	–	0	*
	Upper Heyford	17·0	+2	–	0	f	56	97	55	1	–	–	–	10	10	7150	1	*
4	Ross-on-Wye	16·9	-4	SW'W	1	m/f	56	97	55	4	–	–	–	0	0	–	0	*
5	Hartland Point	16·8	+2	SSE	2	b-bc	58	92	56	7	1	–	–	2-3	2-3	3000	0	2
	Bristol ...	17·3	+2	W	1	b/f	58	97	58	5	–	–	–	0	0	–	0	*
	Portland Bill ...	16·7	+4	NW	2	c	59	92	57	7	5	–	–	10	10	4000	1	3
	Plymouth ...	17·9	+10	–	0	2o	59	92	55	6	5	–	–	9+	9+	4000	0	1
	The Lizard ...	16·3	-4	NNE	2	b	57	92	55	8	–	–	–	0	0	–	1	3
	Scilly (St. Mary's)	17·5	+2	E	1	2o	59	97	58	6	5	–	–	9	9	1200	1	
	Guernsey ...																	
6	Pembroke ...	16·9	-2	SE'E	2	c	59	97	58	7	8	–	–	9+	9+	3000	0	2
7	Holyhead (Valley)	16·6	-2	SSW	2	c-bc	59	85	54	7	5	3	–	4-6	7-8	3000	0	1
	Chester (Sealand)	16·9	+6	–	0	m	58	92	57	4	5	–	–	10	10	3000	0	*
8	Manchester ...	17·2	+6	–	0	bf-	53	97	53	3	–	–	–	0	0	–	0	*
10	Spurn Head ...	17·1	0	SSE	2	2o	60	85	56	6	–	–	–	0	0	–	0	3
	Catterick (Sc.) ...	16·9	+2	–	0	m	53	92	51	4	–	–	–	0	0	–	0	*
	Tynemouth ...	17·3	+2	WSW	2	m	54	97	53	4	5	–	–	10	10	800	0	2
11	St. Abbs Head	15·0	0	–	0	F	53	97	53	1	–	–	–	10	10	7150	0	2
	Leuchars ...	14·9	-8	–	0	2o	55	92	52	6	5	–	–	10	10	800	0	*
12	Renfrew (Abbotsl.)	18·4	-6	–	0	2o	55	92	52	5	–	–	–	0	0	–	0	*
	Eskdalemuir ...	16·3	-2	SSW	2	df	55	97	54	3	5	–	–	10	10	7150	1	*
	Point of Ayre ...	16·8	+2	–	0	b'F+	55	97	55	1	–	–	1	0	Tr	–	0	0
13A	Tiree	13·6	-10	S	2	of+	56	97	56	3	5	–	–	10	10	100	1	1
13B	Stornoway ...	12·3	-14	SSW	3	c	58	85	55	8	5	3	–	4-6	9+	3200	0	2
15	Dalwhinnie ...	14·5	-4	SW	2	0	57	85	54	6	5	–	–	10	10	2500	1	*
	Aberdeen † ...	14·9	-8	S	3	2o	55	92	52	6	5	–	–	10	10	1500	0	2
	Wick ...	14·0	-8	SSE	2	c-bc	57	85	54	8	5	3	6	1	7-8	1000	0	*
16	Sumburgh ..	14·4	-10	SE'S	3	b-bc	57	92	54	8	5	–	1	Tr	2-3	800	0	2
17	Blacksod Point	13·4	-12	S	3	c	60	85	55	8	5	–	–	10	10	2500	0	3
18	Malin Head ...	13·4	-12	SSE	1	c	60	85	55	8	8	–	–	9	9	2500	0	0
	Aldergrove ...	14·8	-6	–	0	2o	56	97	55	5	–	–	–	0	0	–	0	*
19	Birr Castle ...	15·4	-6	SSW	1	c	59	85	54	8	5	1	–	7-8	10	2500	0	*
20	Valentia Obsy.	15·6	-2	S'E	4	c	59	92	57	8	5	7	–	9	10	1500	0	2
	Roches Point	15·9	-2	–	0	c	59	85	54	8	5	–	–	9	9	2500	0	2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F. (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 24th Hrs. (38)
1	London (Kew)	69	52	40	Tr	Tr	2·1
	Croydon ...	67	51	49	–	–	0·3
	S. Farnborough	69	50	41	–	Tr	4·0
	Boscombe Down	72	49	49	–	Tr	6·7
	Thorney Island	67	53	50	–	–	*
	Lympne ..	61	49	42	–	–	2·2
	Manston ...	64	51	48	–	–	5·5
2	Shoeburyness ...	64	50	48	–	–	3·2
	Felixstowe ...	67	53	48	–	–	0·7
	Gorleston ...	61	56	47	–	–	1·7
	Mildenhall ...	76	51	46	–	–	11·1
	Cranwell ...	75	45	39	–	–	13·5
3	Birmingham ...	74	55	44	–	Tr	6·4
	Upper Heyford	75	53	44	–	–	*
4	Ross-on-Wye	67	54	48	–	–	0·1
5	Hartland Point	66	56	55	–	–	5·2
	Bristol ...	65	51	42	–	Tr	0·0
	Portland Bill ...	63	57	*	–	–	*
	Plymouth ...	66	56	47	–	–	2·7
	The Lizard ...	66	56	*	–	–	2·3
	Scilly (St. Mary's)	67	65	*	–	Tr	1·6
	Guernsey ...						
6	Pembroke ...	65	55	*	–	–	5·8
7	Holyhead (Valley)	66	55	52	–	–	*
	Chester (Sealand)	70	56	49	–	–	7·2
8	Manchester ...	74	50	45	–	–	*
10	Spurn Head ...	62	54	*	–	–	12·8
	Catterick (Sc.) ...	75	48	44	–	–	9·7
	Tynemouth ...	60	52	50	–	–	*
11	St. Abbs Head	63	52	*	–	–	*
	Leuchars ...	65	54	44	–	–	13·0
12	Renfrew (Abbotsl.)	78	49	44	Tr	0·1	12·0
	Eskdalemuir ...	75	51	43	–	0·2	12·2
	Point of Ayre ...	68	53	*	–	–	11·1
13A	Tiree	64	51	43	–	–	0·9
13B	Stornoway ...	63	53	50	–	Tr	1·3
15	Dalwhinnie ...	75	49	40	–	2	7·1
	Aberdeen † ...	62	52	46	–	–	14·0
	Wick ...	59	53	49	–	–	*
16	Sumburgh ..	57	51	40	–	–	7·1
17	Blacksod Point	64	51	*	–	–	*
18	Malin Head ...	61	53		–	–	2·5
	Aldergrove ...	76	49	46	–	–	11·4
19	Birr Castle ...	75	53	47	–	–	4·4
20	Valentia Obsy.	65	51	46	–	Tr	6·5
	Roches Point	66	58		–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 24th July ... 18h. G.M.T. — 01h. G.M.T. 25th July ... 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109 52	02855	17228	57	01852	16214	57	02854	16225	87	02764	16326
115 64	02844	18126	52	02844	20127	52	02844	16127	52	02844	20327
203						5-	05848	20128			
206 13	01863	08113	13	01862	08213	53	02865	00065	53	01873	24123
210 53	01752	06212	03	01890	07213	53	22864	20167	00	01890	22115
219 5-	02857	20217	57	02746	22228	07	05690	17325	5-	02858	14328
280 20	05653	26123	13	00661	20315	--	48109	18149	5-	05528	00048
245 00	00790	12300	56	01751	14201	5-	05538	28128	5-	48328	23128
260 00	05630	04210	20	05663	04213	50	05562	04222	--	46009	00049
278 20	01763	31214	10	05661	30212	--	05509	14219	5-	41508	14348
279 20	05652	23212	00	05690	22200	5-	08428	22218	00	43190	14140
285 20	01754	14414									
288 00	05530	01200	53	17563	01203	5-	08164	00014	50	05661	20111
575 57	05755	26126	13	05761	26113	00	05690	00000	00	05790	00028
301 5-	05528	26328	00	05690	26220	5-	05566	08126	51	41455	10248
321 00	00790	00040	00	00790	06110	50	05663	00013	00	05690	00000
299 00	00790	10200	00	00790	14300	00	00790	16200	50	05653	12203
292 00	05690	13200	5-	05686	13213	5-	02766	00028	00	08490	00010
310											
614 10	05661	20101	10	01861	00011	00	05690	00000	04	04690	04113

13h. G.M.T. 24th July ... 18h. G.M.T. — 01h. G.M.T. 25th July ... 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
388 52	03665	18228	10	01761	15311	04	05690	00001	5-	01741	15114
334 --	01672	04113									
340 5-	05546	16126	50	05663	30213	00	08490	32100	53	08445	28245
136 00	00890	02300	00	00890	03300	00	05690	12210	00	05690	10100
336			13	01753	16315						
350 10	05662	12202	00	05690	16100	00	08490	20100	00	08490	12100
368			5-	02666	24216	5-	05657	24117	5-	05568	24128
379 10	01751	30111	20	05592	26212	00	08490	26300	--	46109	00049
390 5-	05658	00028	50	05664	00024	00	47300	00000	00	41490	00040
382 00	01790	16111	00	05690	12110				5-	05538	00028
438			5-	02748	10128	50	05563	32213	8-	05656	32116
430 5-	05655	12127	50	02763	14223	07	05690	32113	00	05690	06100
409 5-	02744	28228	10	01743	30213	50	05664	01114	00	00790	06100

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud.—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$C$_M$ = Form of low and medium cloud—See Introduction.
VV = Visibility. f' = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 25th July, 1943.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew ...	mido cm o	c, bzy	bfmow
Croydon ...	cm. c2o	c2o	bcmow
Greenwich ...	c	c	cb2o
Camden Square	c	c	*
Kensington ...	bc c bc	bc	*
Hampstead ...	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Time 0-4h 8-10h 24h
Min. Time Kew 10-6h 25th

Stations.	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 % (Yesterday)	Humidity 9h % (To-day)
Kew ...	69	52	40	Tr	Tr	2·1	*	*
Croydon ...	67	51	49	–	–	0·3	*	*
Greenwich ...	67	51	41	–	–	0·0	67	69
Westminster ...	68	53	48	+			83	73
Regents Park								
Camden Square	69	53	46	–	–	*	*	73
Kensington ...	69	52	44	–	–		65	70
Hampstead ...	66	53	47	–	–		*	73

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday, 26th July 1943 — No. 2831

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	15·8	-12	SW'S	2	2_0	70	65	56	6	1	-	-	Tr	1+	4000
	Croydon ...	16·7	-12	-	0	6_0	70	55	58	6	1	-	-	2·3	2·3	3000
	S. Farnborough	15·4	-14	SE	1	6_0	75	65	68	7	1	-	-	1	1	2500
	Boscombe Down	16·3	-10	-	0	2_0	67	75	55	6	5	-	-	7-8	9+	1600
	Thorney Island	16·4	-6	S'W	3	c-bc	68	65	58	7	5	-	-	7-8	7-8	2500
	Lympne ...	16·8	-6	SE'E	2	b	64	75	55	8	-	-	-	0	0	-
	Manston ...	17·1	-2	SE	3	b-bc	65	75	56	6	5	-	-	2·3	2·3	3500
2	Shoeburyness ...	16·9	-14	SE	2	b	68	75	60	8	-	-	-	0	10	-
	Felixstowe ...	17·4	0	SE'S	2	b	66	75	59	8	-	-	-	0	0	-
	Gorleston ...	17·0	-2	SSE	3	b	61	85	55	7	-	-	-	0	0	-
	Mildenhall ...	15·6	-10	S	2	b	78	45	55	7	1	-	-	Tr	Tr	4000
	Cranwell ...	16·0	-12	S	3	2_0	78	45	53	6	1	-	-	4-6	4-6	3000
3	Birmingham ...	15·0	-8	NW	1	2_0	71	65	59	6	1	-	-	4-6	4-6	2500
	Upper Heyford	15·4	-14	SSW	3	2_0	73	55	57	6	1	-	-	4-6	4-6	3000
4	Ross-on-Wye	15·4	-10	SW	3	2_0	72	55	57	6	1	-	-	2·3	2·3	3500
5	Hartland Point	16·6	0	W	2	bc	63	75	54	7	1	-	-	4-6	4-6	2500
	Bristol ...	15·9	-10	WSW	2	2_0	69	75	61	6	8	-	-	9+	9+	4000
	Portland Bill ...	15·7	-6	NW	2	c	62	85	59	7	5	-	-	10	10	4000
	Plymouth ...	16·4	-10	SSW	3	c-bc	64	85	60	7	-	7	-	0	7-8	-
	The Lizard ...	16·5	-4	SW	1	b-bc	66	85	61	8	1	-	-	2·3	2·3	3500
	Scilly (St. Mary's)	17·1	-4	SE	2	c-bc	68	63	56	7	5	-	-	7-8	7-8	1200
	Guernsey ...															
6	Pembroke ...	16·5	0	WSW	2	c	63	85	60	7	8	7	-	7-8	9+	3000
7	Holyhead (Valley)	15·5	-8	SSW	4	b-bc	66	65	54	7	-	3	4	0	2·3	-
	Chester (Sealand)	14·4	-14	SSW	3	c-bc	74	55	57	6	5	-	-	7-8	7-8	2500
8	Manchester ...	15·2	-8	SW	2	2_0	75	55	57	6	1	-	-	1	1	4000
10	Spurn Head ...	16·4	-6	SE'E	4	2_0	65	75	58	6	-	-	-	0	0	-
	Catterick (Sc) ...	14·3	+20	SSE	2	2_0	74	55	59	6	1	-	-	4-6	4-6	3000
	Tynemouth ...	15·7	-10	SSE	2	3_0	62	75	55	6	-	-	-	0	0	-
11	St. Abbs Head	13·1	-8	ESE	2	fs	65	75	56	7	5	-	-	4-6	4-6	4000
	Leuchars ...	12·4	-14	SE	3	2_0	73	55	59	6	5	-	2	Tr	1	3000
12	Renfrew (Abbots I.)	12·9	-10	SW	3	2_0	70	65	59	6	5	-	-	4-6	9	2500
	Eskdalemuir ...	14·5	-8	SSW	4	2_0	62	75	51	6	5	-	-	9+	9+	1300
	Point of Ayre ...	14·8	-6	S'W	1	c-bc	68	65	56	8	5	-	2	1	7-8	3000
13A	Tiree	11·1	-16	S	4	c	61	85	57	7	5	1	6	2·3	9	300
13B	Stornoway ...	09·7	-10	SSW	5	c	62	85	57	7	5	7	-	7-8	10	2500
15	Dalwhinnie ...	11·8	-10	SSW	3	c	70	55	56	6	2	-	6	2·3	9	2500
	Aberdeen ...	12·6	-34	SSE	3	bjf	62	75	54	6	2	-	1	Tr	Tr	1500
	Wick ...	12·1	-10	SSE	3	b-bc	62	85	56	8	2	4	-	1	2·3	2000
16	Sumburgh ...	13·3	-4	SSE	4	c	59	85	56	8	5	-	1	9	9+	800
17	Blacksod Point	10·4	-18	S	5	c	63	85	59	7	6	-	-	10	10	2500
18	Malin Head ...	10·8	-14	SW	3	c	65	65	54	8	5	1	-	7-8	9+	2500
	Aldergrove ...	12·6	-12	WSW	1	3_0	69	65	52	6	5	-	-	9+	9+	2000
19	Birr Castle ...	13·1	-10	SW	2	c	68	69	57	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	13·1	-14	S'W	6	2_0	66	75	58	6	2	-	3	9	9	1500
	Roches Point	15·2	-2	SSW	3	c	64	85	60	8	5	-	-	9	9	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	13·9	-6	SSW	2	b-bc	78	55	58	7	5	-	-	2-3	2-3	4000	1	*
	Croydon ...	14·7	-10	SSE	2	b	75	55	59	7	1	-	-	Tr	Tr	3000	0	*
	S. Farnborough	13·9	-8	S	2	b	74	55	57	7	1	-	-	Tr	Tr	3000	0	*
	Boscombe Down	14·6	-14	SW'S	2	2_0	70	65	58	6	5	-	-	2-3	2-3	3000	0	*
	Thorney Island	15·8	-4	S'E	2	b	64	85	58	7	-	-	-	0	0	-	0	*
	Lympne ...	15·8	-2	ESE	2	2_0	61	85	56	6	-	-	-	0	0	-	0	§
	Manston ...	15·5	-6	ESE	2	2_0	63	75	57	6	5	-	-	Tr	Tr	3000	0	*
2	Shoeburyness ...	16·6	-6	E	3	2_0	64	85	59	6	-	-	-	0	0	-	0	*
	Felixstowe ...	16·0	-8	ESE	2	b	65	85	60	7	-	-	-	0	0	-	0	1
	Gorleston ...	16·1	-6	SE'S	3	b	63	85	57	7	-	-	-	0	0	-	0	3
	Mildenhall ...	14·0	-2	SE'E	3	b	77	45	54	8	-	-	-	0	0	-	0	*
	Cranwell ...	13·1	-10	SW	3	2_0	76	45	53	6	-	-	-	0	0	-	0	*
3	Birmingham ...	13·1	-6	SSW	3	b	77	55	60	8	1	-	-	Tr	Tr	4000	0	*
	Upper Heyford	13·8	-6	SSW	2	2_0	75	55	57	6	1	-	-	2-3	2-3	4000	0	*
4	Ross-on-Wye	14·0	-10	SW	3	2_0	72	55	55	6	-	-	-	0	0	-	0	*
5	Hartland Point	14·8	-12	NNW	2	b-bc	66	75	56	7	-	4	-	0	2-3	-	0	2
	Bristol ...	15·0	-6	W'N	3	b	69	75	59	7	1	-	-	1	1	4000	0	*
	Portland Bill ...	15·2	-2	S	2	o	62	92	60	7	5	-	-	10	10	4000	1	2
	Plymouth ...	15·4	-10	SW	3	c-bc	63	85	59	8	-	3	-	0	7-8	-	0	2
	The Lizard ...	15·3	-8	WSW	2	b-bc	65	75	56	8	5	3	-	1	2-3	3500	0	2
	Scilly (St. Mary's)	15·5	-10	SSW	2	b	64	75	57	7	-	-	-	0	0	-	0	1
	Guernsey ...	15·0	-4	SW'S	3	bc	63	85	60	8	2	7	1	4-6	4-6	3000	0	2
6	Pembroke ...	13·9	-6	SEN	5	c	62	85	57	8	1	-	6	Tr	9+	3000	0	4
7	Holyhead (Valley)	13·1	-6	NW	2	c-bc	68	75	59	6	5	-	-	7-8	7-8	4000	0	*
	Chester (Sealand)	13·2	-8	SW	2	2_0	73	55	57	6	1	-	-	2-3	2-3	3000	0	*
8	Manchester ...	13·8	-10	SE	4	b	63	85	58	7	-	-	-	0	0	-	0	3
10	Spurn Head ...	12·2	-12	SSW	2	m	73	65	62	4	1	-	-	4-6	4-6	3000	0	*
	Catterick (Sc) ...	13·4	-8	SSE	3	2_0	63	75	55	6	8	-	-	7-8	7-8	2500	0	2
	Tynemouth ...	11·4	-10	SSW	4	bc	69	75	59	7	5	4	-	2-3	4-6	3500	0	2
11	St. Abbs Head	10·4	-14	SSW	3	2_0	71	55	55	6	-	7	5	0	9+	-	0	*
	Leuchars ...	10·8	-10	SSW	4	c	67	75	57	7	5	7	7	2-3	10	2000	0	*
12	Renfrew (Abbots I.)	12·2	-12	SSW	4	c	62	75	55	7	5	7	7	2-3	10	1800	0	*
	Eskdalemuir ...	12·5	-6	SW'S	3	c	65	75	56	8	5	-	6	Tr	9+	1600	0	2
	Point of Ayre ...	08·1	-20	SSE	3	c	58	92	57	7	5	-	-	7-8	10	2500	1	*
13A	Tiree	09·1	-12	S	5	i6	59	85	56	7	5	2	-	4-6	10	2200	0	4
13B	Stornoway ...	09·8	-10	SSW	3	c	63	75	53	6	5	1	-	2-3	10	2500	0	:
15	Dalwhinnie ...	10·4	-14	SSE	3	cjf	61	75	54	6	5	-	2	1	9	450	0	2
	Aberdeen ...	08·9	-14	SE	3	2_0	58	97	56	6	-	1	7	0	10	-	0	*
	Wick ...	10·6	-12	SE	4	c	57	92	55	8	5	5	7	2-3	10	700	0	2
16	Sumburgh ...	06·3	-26	S	6	c	62	85	58	7	6	-	-	10	10	2500	0	5
17	Blacksod Point	07·9	-16	SSW	3	c	65	75	57	8	5	-	-	10	10	2500	0	2
18	Malin Head ...	10·3	-14	S	3	2_0	66	75	58	6	5	2	-	4-6	9+	3500	0	*
	Aldergrove ...	10·8	-16	SW	3	c	65	75	57	8	5	1	-	7-8	10	2500	0	*
19	Birr Castle ...	10·5	-14	SSE	5	2_0	63	85	59	6	5	-	-	10	10	1500	0	4
20	Valentia Obsy.	12·8	-12	SSW	4	2_0	63	92	61	6	5	3	-	4-6	9	1500	0	4
	Roches Point																	

PAST 24 HOURS.

Stations	Weather. 7h.—13h. 25th (39)	Weather. 13h.—18h. 25th (40)	Weather. 18h. 25th to 1h. 26th (41)	Weather. 1h.—7h. 26th (42)
1 London (Kew)	bcbz$_0$	bz$_0$bcy	bcybw	bbcm$_0$w
Croydon ...	bcm$_0$bcmy	bcz$_0$yby	bm$_0$	bm$_0$
S. Farnborough	bcz$_0$yby	bbz$_0$by	bm$_0$w	bm$_0$wcm$_0$f
Boscombe Down	cmm	cm$_0$bm$_0$	bm$_0$fw	bcfcm
Thorney Island	c	cbcb	bwm$_0$	bwm$_0$fcz$_0$
Lympne ...	bcbcb	b	bm$_0$	bm$_0$
Manston ...	bcbm$_0$bbcb	bm$_0$	bm$_0$w	bm$_0$w
Shoeburyness ...	bcm$_0$b	bbm$_0$	bm$_0$	bmbm$_0$w
Felixstowe ...	b	b	b	bm$_0$wbm
Gorleston ...	bcb	b	bw	bwcz$_0$
Mildenhall ...	bz$_0$b$_2$y	by	bybbm$_0$	bm$_0$bcm$_0$cm$_0$
Cranwell ...	cbcbcy$\frac{1}{2}$$_0$	cbcz$_0$y	bz$_0$bm$_0$	bmbcm$_0$
Birmingham ...	bbcz	bcb	b	bbcz
Upper Heyford	bcmcz$_0$	bcz$_0$y	bcz$_0$ybm$_0$	bcmcm$_0$
Ross-on-Wye	cfcmbcz	bz$_0$by$\frac{1}{2}$$_0$	bcz$_0$	bmwbcm
Hartland Point	bcbbc	bc	bcb	bbcc
Bristol ...	bm$_0$wbcm$_0$	cz$_0$bcb	cbbm$_0$w	bcm$_0$wcfmw
Portland Bill ...	c	co	cbc	c
Plymouth ...	cm$_0$bcb	cbc	bcbm$_0$w	bm$_0$wcm$_0$
The Lizard ...	bbc	bc	bcbwz	bbccz
Scilly (St. Mary's)	c	cbcb	bw	b,cw
Guernsey ...				
Pembroke ...	c	bc	bc	cm$_0$
Holyhead (Valley)	cbcbbc	bcc	bcc	cbccm$_0$
Chester (Sealand)	cm$_0$bcz	z$_0$ybcz$_0$	cbm$_0$	bcm$_0$fm
Manchester ...	bfbm$_0$z$_0$	bbcz$_0$y	bcz$_0$cm	bcm$_0$w
Spurn Head ...	b$_2$$_0$	b	b	bcm$_0$
Catterick (Sc) ...	bc	bcmcz	bmcm$_0$	cm$_0$
Tynemouth ...	bcm$_0$fbc	bcm$_0$	cm$_0$bc	bccm$_0$
St. Abbs Head	bz$_0$	bcz$_0$y	cm$_0$bcm$_0$	occm$_0$
Leuchars ...	bm$_0$wbmcm$_0$	cm$_0$c	ccm$_0$	cm$_0$n$_0$n$_0$cm$_0$
Renfrew (Abbots I.)	cm$_0$cm$_0$	cm$_0$c	ccm$_0$	cm$_0$pr
Eskdalemuir ...	ffbcc	c	c	c
Point of Ayre ...	cm$_0$	ccr$_0$m$_0$cm$_0$y	cd$_0$r$_0$d$_0$d$_0$m$_0$c	
Tiree	c$_0$	cejpcir$_0$	cr$_0$r$_0$m$_0$cm$_0$	cr$_0$n$_0$cm$_0$
Stornoway ...	ac	co		aco
Dalwhinnie ...	cbcbz$_0$jf	bbcc	cz$_0$	cz$_0$
Aberdeen ...	bccbcb	c	cm$_0$	cr$_0$r$_0$m$_0$r$_0$m$_0$
Wick ...	c	c	c	cm$_0$ir$_0$
Sumburgh ...	c	c	r	c
Blacksod Point	c	c	r	r
Malin Head ...	bm$_0$fbcz$_0$	cz$_0$	cm$_0$	cr$_0$r$_0$ir$_0$
Aldergrove ...	c	c		r
Birr Castle ...	c	c	r	pr
Valentia Obsy.	c	c	d	r
Roches Point				

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 26th July, 1943.

Districts	
1 S.E. England 2 E. England .. 3 E. Midlands ...	Light southwest to west winds; fine at first becoming cloudy with slight local rain or drizzle; very warm becoming cooler.
4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light to moderate southwest to west winds; cloudy with occasional light rain spreading from west, followed by mainly fair weather with some bright periods; warm becoming cooler.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate to fresh southwest to west winds; strong locally on coasts; cloudy with occasional rain at first; bright periods and local showers later; rather cool.
16 Orkneys and Shetlands 17 N.W. Ireland	As 12-15.
18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light to moderate southwest to west wind; cloudy with occasional light rain, becoming fair with some bright periods; rather warm becoming rather cool.

GENERAL INFERENCE

A deep depression is centred South of Iceland, and an associated trough is moving east across the British Isles. Occasional rain will accompany the trough in the North and slight local rain in the South, with mainly fair weather behind it, apart from some showers in the North. It will be rather cool in the North, but warm or very warm in the South, becoming cooler.

FURTHER OUTLOOK

Rather unsettled southwesterly type.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Monday 26th July 1943.

LOW

HIGH

STATION MODEL

High Cloud

Medium cloud

Total Amount of Cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Scale 1: 5,000,000

H.M.S.O. Press, M.O., Dunstable

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Monday 26th July

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 26th July 1943 — No. 23831.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	59	*	*	*	*	*	*	*	*	*
	Croydon ...	290	16·2	-2	-	0	z_o	56	92	55	5	-	-	-	0	*	-
	S. Farnborough	226	15·6	-6	S	2	z_o	57	92	55	5	-	-	-	0	0	-
	Boscombe Down	417	15·0	-2	-	0	bf+	55	97	55	3	-	-	-	0	0	-
	Thorney Island	10	15·4	0	-	0	z_o	53	97	53	6	-	-	-	0	0	-
	Lympne ..	283	15·5	-6	-	0	z_o	56	97	55	6	-	-	-	0	0	-
	Manston ...	154	15·7	+2	-	0	z_o	57	97	56	5	5	-	-	Tr	Tr	1000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	15·5	-26	S'E	1	b	62	92	59	7	-	-	-	0	0	-
	Gorleston ...	5	15·7	-2	S'W	3	b	60	92	57	7	-	-	-	0	0	-
	Mildenhall ...	15	14·5	-2	SE'S	2	z_o	57	92	55	6	-	-	-	0	0	-
	Cranwell ...	202	13·5	-2	SE	2	z_o	58	92	55	6	-	-	/	0	4-6	-
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Hayford	408	14·5	-2	S	1	z_o	59	92	56	5	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	14·1	-8	S	2	b	58	75	49	7	-	-	-	0	0	-
	Bristol ...	209	15·0	-4	WNW	1	fg	54	97	53	6	-	-	-	0	0	-
	Portland Bill ...	32	15·1	-4	S	2	bc	60	92	58	7	5	-	-	4-6	4-6	4000
	Plymouth ...	86	15·4	-2	ENE	1	z_o	56	92	55	6	5	-	-	1	1	3500
	The Lizard ...	240	14·9	-4	NW	2	b	58	97	57	7	-	-	-	0	0	-
	Scilly (St. Mary's)	163	14·5	-10	S'W	3	z_o	59	97	58	6	-	-	-	0	0	-
	Guernsey ...	175															
6	Pembroke ...	142	14·2	-6	SSW	3	b-bc	59	97	58	7	1	-	-	2-3	2-3	4000
7	Holyhead (Valley)	32	12·7	-9	S'W	4	c-bc	53	88	55	7	5	-	-	7-8	7-8	5100
	Chester (Sealand)	16	13·5	+2	-	0	bc	53	92	51	6	-	-	6	0	4-6	-
8	Manchester ...	230	13·8	+2	S	2	m	58	92	56	4	5	-	2	4-6	7-8	1800
10	Spurn Head ...	29	13·7	-2	S	4	b	61	85	58	7	-	-	-	0	0	-
	Catterick (Sc)...	192	13·0	0	SSW	1	z_o	58	85	54	6	/	3	/	0	7-8	-
	Tynemouth ...	108	13·3	-2	NW	2	z_o	60	85	56	6	-	-	-	0	0	-
11	St. Abbs Head	280	10·0	-8	SE	1	c-bc	55	92	53	7	5	-	-	7-8	7-8	4000
	Leuchars ...	36	09·4	-10	-	0	z_o	53	85	54	6	5	-	-	7-8	7-8	2000
12	Renfrew (Abbotsl.)	19	08·4	-18	S	3	z_o	61	85	55	6	5	2	-	7-8	8	1600
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	11·1	-4	SW'W	4	c	53	85	54	8	4	-	6	Tr	9	1600
13A	Tiree	44	03·9	-20	SSE	6	o/r	58	85	56	6	5	-	-	10	10	1000
13B	Stornoway ...	12	02·1	-20	SSE	7	c/r	58	92	57	6	6	2	-	7-8	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	08·4	-6	SSW	3	c	58	85	53	7	-	7	2	0	3	-
	Wick ...	114	06·5	-8	SW	3	z_o	61	85	55	6	5	-	-	10	10	2500
16	Sumburgh ..	19	06·5	-14	SE	4	c	56	97	56	6	5	2	-	4-6	10	600
17	Blacksod Point	18	04·6	-6	SW	6	ir_o	57	97	57	7	6	2	-	4-6	10	1500
18	Malin Head ...	84	03·6	-22	S'W	6	c	62	75	54	8	5	-	-	3+	3+	1500
	Aldergrove ...	268	08·1	-10	S'E	5	z_o	61	85	57	6	5	2	-	7-8	10	4000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08·6	-14	S'W	5	rr	59	97	59	6	5	-	-	10	10	800
	Roches Point	22	10·6	-10	S'W	5	c/d	60	97	60	7	5	-	-	3+	3+	450

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	14·8	+6	WSW	1	z_o	61	85	58	6	-	-	4	0	2-3	-	1	*
	Croydon ...	15·6	0	-	0	z_o	62	85	58	6	-	-	4	0	1	-	1	*
	S. Farnborough	15·1	+8	WSW	2	of	58	92	56	3	5	-	-	10	10	100	1	*
	Boscombe Down	15·4	+6	-	0	m/f	57	97	57	4	5	-	-	3+	3+	2500	0	*
	Thorney Island	15·1	+2	-	0	c/F	58	97	58	6	5	-	-	3+	3+	1800	0	*
	Lympne ..	16·2	+4	-	0	z_o	62	85	58	6	-	-	-	0	0	-	0	0
	Manston ...	15·5	+2	W	1	z_o	61	92	53	6	-	-	-	0	0	-	0	*
2	Shoeburyness ...	15·3	+4	-	0	z_o	62	92	60	6	-	-	-	0	0	-	0	*
	Felixstowe ...	14·9	+2	SW	1	m	62	97	62	4	-	-	-	0	0	-	0	1
	Gorleston ...	15·1	0	W'N	1	z_o	59	92	57	6	-	7	-	0	7-8	-	0	1
	Mildenhall ...	15·6	+6	-	0	z_o	62	85	58	6	5	7	-	4-6	9	4000	0	*
	Cranwell ...	13·8	+6	W'S	3	z_o	60	85	54	6	5	-	1	2-3	2-3	5000	0	*
3	Birmingham ...	14·2	+4	S	1	z_o	59	75	51	6	-	7	-	0	4-6	-	0	*
	Upper Hayford	14·5	+2	-	0	z_o	59	85	55	5	5	-	-	/	1	4000	0	*
4	Ross-on-Wye	14·5	-4	E'N	1	m	55	92	52	4	-	7	-	0	9	-	0	*
5	Hartland Point	13·5	+6	S	3	c	60	75	53	7	-	7	-	0	9	-	0	2
	Bristol ...	15·1	+6	-	0	z_o	59	92	57	6	5	-	-	3+	3+	5000	0	*
	Portland Bill ...	15·2	+8	S	2	c	60	92	58	7	5	4	-	7-8	10	4000	1	3
	Plymouth ...	15·3	+6	E'N	1	z_o	57	97	56	5	-	3	2	0	9	-	0	1
	The Lizard ...	14·4	+4	-	0	z_o	60	97	60	5	5	3	-	7-8	7-8	2500	0	3
	Scilly (St. Mary's)	13·5	0	SSW	3	c	60	92	58	6	5	3	3	7-8	3+	1000	1	2
	Guernsey ...																	
6	Pembroke ...	12·5	0	SSW	4	z_o	60	97	60	6	2	6	-	4-6	7-8	2500	0	2
7	Holyhead (Valley)	11·5	-2	S'W	5	z_o	60	85	57	6	6	2	-	3+	10	2000	0	3
	Chester (Sealand)	13·1	+4	S'E	1	c	57	85	54	6	5	7	-	2-3	3+	3000	0	*
8	Manchester ...	13·5	+2	S'W	3	z_o	58	85	53	6	-	3	-	0	9	-	0	*
10	Spurn Head ...	13·7	0	SSW	2	c-bc	60	85	56	5	7	3	-	4-6	7-8	2500	0	1
	Catterick (Sc)...	12·6	-2	S	1	z_o	59	85	55	6	5	7	-	2-3	7-8	3000	0	*
	Tynemouth ...	12·5	-2	SSW	4	z_o	61	75	54	6	3	4	1	2-3	7-8	2100	0	1
11	St. Abbs Head	09·4	+6	E	1	c	58	85	52	7	5	2	-	7-8	10	1900	0	2
	Leuchars ...	07·6	-2	SSW	4	z_o	62	75	54	6	5	7	-	4-6	3+	600	0	*
12	Renfrew (Abbotsl.)	07·3	-2	S'W	4	ir_o	61	85	56	6	5	2	-	7-8	10	2000	1	*
	Eskdalemuir ...	09·3	-10	SW'S	3	o/pr	57	92	54	5	5	-	-	10	10	700	1	*
	Point of Ayre...	09·7	-4	SW	4	c	61	85	58	7	5	-	-	10	10	2000	0	3
13A	Tiree	03·9	+6	SW	3	c	57	92	56	7	5	3	-	7-8	9	800	1	4
13B	Stornoway ...	00·3	+2	S	6	c/r	57	92	55	8	5	-	1	9	3+	1800	1	4
15	Dalwhinnie ...	05·0	-8	S	3	c	58	85	53	7	5		-	7-8	10	2500	0	*
	Aberdeen † ...	07·5	+2	S'W	4	z_o	58	85	52	6	5	7	-	4-6	10	800	0	3
	Wick ...	04·5	-6	S'W	3	ir_o	57	92	55	6	5	7	-	4-6	10	1500	1	*
16	Sumburgh ..	05·0	-2	SSE	4	ir_o	56	97	54	6	5	7	-	4-6	10	5000	1	2
17	Blacksod Point	05·7	+6	WSW	5	c	58	75	50	8	8	--	-	10	10	2500	1	4
18	Malin Head ...	04·8	+14	W	4	c	57	85	53	8	5	-	-	3+	9	1500	0	4
	Aldergrove ...	07·2	-2	S'W	4	ir_o	59	92	58	5	6	2	-	7-8	10	500	1	*
19	Birr Castle ...	07·9	-2	SW	2	c	60	92	58	7	8	2	-	7-8	10	800	0	*
20	Valentia Obsy.	09·8	+10	SW	3	c/pr	56	97	56	8	8	-	-	3+	3+	2500	1	3
	Roches Point	09·3	-4	S'W	4	dd	60	97	60	5	5	-	-	10	10	450	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 25' Hrs. (38)
1	London (Kew)	78	55	44	-	-	12·1
	Croydon ...	78	54	52	-	Tr	11·5
	S. Farnborough	77	55	47	-	-	12·5
	Boscombe Down	72	53	50	-	Tr	2·3
	Thorney Island	68	48	45	-	-	*
	Lympne ..	65	53	48	-	-	10·7
	Manston ...	66	55	47	-	-	11·4
2	Shoeburyness ...	68	55	53	-	-	9·9
	Felixstowe ...	67	56	52	-	-	10·0
	Gorleston ...	64	58	54	-	-	9·7
	Mildenhall ...	80	56	50	-	-	12·7
	Cranwell ...	79	55	47	-	-	10·4
3	Birmingham ...	77	54	40	-	-	9·2
	Upper Hayford	77	56	45	-	-	*
4	Ross-on-Wye	76	48	42	-	-	9·7
5	Hartland Point	66	56	53	-	-	12·3
	Bristol ...	73	51	40	-	-	6·0
	Portland Bill ...	63	57	*	-	-	*
	Plymouth ...	66	52	41	-	-	7·2
	The Lizard ...	68	57	*	-	-	13·1
	Scilly (St. Mary's)	63	58	*	-	Tr	7·1
	Guernsey ...						
6	Pembroke ...	66	58	*	-	-	7·4
7	Holyhead (Valley)	67	58	51	-	-	*
	Chester (Sealand)	75	52	41	-	-	8·2
8	Manchester ...	75	53	51	-	-	*
10	Spurn Head ...	66	56	*	-	-	11·7
	Catterick (Sc)...	77	52	48	-	-	9·8
	Tynemouth ...	65	56	53	-	-	*
11	St. Abbs Head	74	55	*	-	-	*
	Leuchars ...	76	71	52	-	-	8·7
12	Renfrew (Abbotsl.)	71	60	55	-	Tr	7·9
	Eskdalemuir ...	67	53	50	Tr	Tr	3·4
	Point of Ayre...	71	58	*	-	-	8·3
13A	Tiree	62	56	41	-	3	0·5
13B	Stornoway ...	65	55	55	-	23	2·4
15	Dalwhinnie ...	70	56	55	-	-	5·9
	Aberdeen † ...	65	56	51	-	-	7·0
	Wick ...	63	56	44	-	1	*
16	Sumburgh ..	60	55	54	-	Tr	2·8
17	Blacksod Point	65	55	*	-	9	*
18	Malin Head ...	67	56		-	2	0·7
	Aldergrove ...	72	58	57	-	10	7·8
19	Birr Castle ...	71	58	56	-	0·5	4·7
20	Valentia Obsy.	67	55	54	-	6	1·7
	Roches Point	66	50		-	4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 25th July: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 26th July: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
109				51	05538	14328	5-	41428	16248
115	52	09745	20248	67	02745	20328	52	64635	12168
203							5-	64748	16468
206	13	02864	20225	07	02790	24227	62	62644	00088
210	2-	01864	05214	42	02771	20328	57	02763	12128
219	87	02844	16528	57	61744	16668	52	61646	16768
280	51	05669	16227	52	02755	14228	5-	22744	12168
245	00	19390	12300	10	43561	07247	57	05527	18127
260	00	05690	22400	00	02790	20326	00	05690	18326
278	52	02734	16428	5-	05638	16428	5-	02748	16328
279	50	05661	22443	10	02761	22428	51	02754	16525
285							57	02745	20327
288	00	05690	16310	13	17665	12316	00	05690	17120
575	54	02854	18426	52	02855	17428	62	61645	18468
301	00	05690	20120	00	01790	26214	50	05653	15313
321	10	01764	18415	00	05690	18323	00	47390	00000
299	00	05690	12300	00	00790	14300	00	00790	22200
292	00	05690	13200	10	05664	00014	00	05690	00000
310							--	01643	24313
614	1-	05664	20214	10	05663	18113	00	08490	00000

III	13h. G.M.T. 25th July: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 26th July: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
338	5-	02758	14418	52	02754	18428	5-	05665	22425
334							52	05645	17428
340	2-	01756	20225	20	05651	24211	--	03556	08128
136	10	01664	20114	80	01762	04212	00	05690	16200
336							03	05690	18227
350	10	01662	16201	10	05661	16101	53	01753	24315
368	00	01790	28200	00	01790	24202	00	05590	00040
379	50	01553	12043				00	05590	00016
390	00	01690	12110	00	00790	08200	00	00790	22200
382	50	01654	00024	10	05651	00061	00	05590	18125
438	20	01662	12112	00	05690	20200	00	08490	16100
430	5-	02754	18124	00	00790	16110	00	08490	00000
409	10	01861	26201	10	01851	28214	00	01790	13115
							57	02624	16227
							40	05663	22113
							40	05661	24211
							5-	05544	00014

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 18 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 26th July, 1943.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	bdbz$_o$	bz$_o$bcy	bcybcm$_o$	Kew 24 hours ending 7h. 26th
Croydon ...	bcm$_o$bcmy	bcz$_o$yby	bm$_o$	
Greenwich ...	bz$_o$y	bz$_o$y	bwbz$_o$	
Camden Square ...	bc	bc	*	
Kensington ...	bc	bc	*	
Hampstead ...	bc	b	b	Min. quiet for Rest of Period.

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h %	Humidity 9h % To-day
Kew ...	78	55	44	-	-	12·1	*	*
Croydon ...	78	54	52	-	Tr	11·5	*	*
Greenwich ...	78	53	43	-	-	11·7	51	67
Westminster ...	78	57	51				43	79
Regents Park ...	78	57	50	-	-		47	65
Camden Square ...	81	58	51	-	-	*	*	74
Kensington ...	79	56	48	-	-		61	71
Hampstead ...	76	55	51	-	-		*	75

SECRET

Page 1

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday 27th July 1943 — No. 20832

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	14·6	−6	S	2	cbc	73	55	56	7	7	3	4	4-6	7-8	5700
	Croydon ...	15·0	−6	W	2	cbc	76	55	58	7	4	4	5	2-3	7-8	5000
	S. Farnborough	14·5	−6	SW	2	z_o	75	55	57	6	7	3	4	7-8	9	2500
	Boscombe Down	15·1	0	SSW	1	cbc	72	55	56	7	7	−	−	7-8	7-8	4000
	Thorney Island	15·4	+4	S'E	3	cbc	68	75	60	7	−	3	8	0	7-8	−
	Lympne ...	15·0	−2	SW'S	2	z_o	74	65	59	6	−	−	−	0	0	−
	Manston ...	14·9	0	SE	3	z_o	72	65	60	6	−	−	−	0	0	−
2	Shoeburyness ...	14·5	−6	S'W	1	z_o	77	65	62	6	−	−	1	0	2-3	−
	Felixstowe ...	14·7	−2	SE'S	3	b	70	85	64	7	−	−	6	0	1	−
	Gorleston ...	14·9	−4	SSE	3	b-bc	65	85	62	7	−	−	8	0	2-3	−
	Mildenhall ...	13·3	−6	SW'S	2	bc	81	45	55	7	1	3	6	1	4-6	4000
	Cranwell ...	13·3	−6	SW	3	c	76	45	52	7	1	7	9	Tr	9	3000
3	Birmingham ...	13·9	−2	SSW	3	cbc	74	45	52	8	7	8	2	4-6	7-8	4000
	Upper Heyford	13·9	−6	WSW	2	c	76	46	58	7	5	7	6	1	9+	4000
4	Ross-on-Wye	13·9	−4	SW'W	4	c	72	45	50	7	−	7	−	0	9+	−
5	Hartland Point	14·1	+2	WSW	3	c	68	85	58	7	5	6	−	4-6	9+	1000
	Bristol ...	14·7	−4	SW'S	3	c	78	65	59	8	1	3	−	4-6	10	4000
	Portland Bill ...	15·2	+2	W	2	of-	61	97	59	3	5	−	−	10	10	800
	Plymouth ...	15·7	+2	SW	2	z_o	65	85	61	6	1	7	−	2-3	9	2000
	The Lizard ...	15·8	0	S	3	z_o	66	85	61	6	5	−	−	9+	9+	2500
	Scilly (St. Mary's)	14·6	+6	NW	3	c	64	85	59	8	3	7	−	7-8	10	1200
	Guernsey ...															
6	Pembroke ...	14·1	+2	SW'S	4	c	61	97	60	6	5	2	−	7-8	10	2500
7	Holyhead (Valley)	12·2	+2	S'W	5	c	64	85	57	7	5	7	−	9+	10	2000
	Chester (Sealand)	12·8	+2	SW	2	c	69	55	55	6	5	7	−	4-6	9+	3500
8	Manchester ...	13·1	−2	SSW	4	c	68	65	56	7	5	7	−	9	10	4000
10	Spurn Head ...	13·8	−2	SE	3	z_o	65	85	59	5	7	3	−	2-3	9	2500
	Catterick (Sc.) ...	12·6	+2	SSW	3	z_o	68	65	56	6	−	7	−	0	3	−
	Tynemouth ...	12·2	0	SW	5	z_o	68	65	54	6	8	−	−	9+	9+	2100
11	St. Abbs Head	08·7	−4	S	4	c	64	75	57	7	5	6	−	7-8	9+	2000
	Leuchars ...	07·8	+4	SW	5	c	69	65	56	8	8	7	−	7-8	9	2500
12	Renfrew (Abbotsinch)	08·8	+8	WSW	3	c/r	62	85	59	7	8	7	−	7-8	9+	2000
	Eskdalemuir ...	10·1	+10	SSW	6	rf	60	92	58	3	−	2	−	10	10	300
	Point of Ayre ...	10·7	+4	SW	4	ido	74	85	69	7	6	1	−	4-6	10	600
13A	Tiree ...	06·2	+10	SW	4	c	60	85	54	8	5	7	−	4-6	10	2000
13B	Stornoway ...	02·3	+10	SSW	6	c/pr	59	85	55	8	8	6	−	4-6	7-8	2000
15	Dalwhinnie ...	07·0	+14	SSW	4	cbc	60	75	53	7	5	−	2	4-6	7-8	1500
	Aberdeen ...	07·8	+2	S	4	c/r	61	85	54	6	5	7	−	9+	10	2500
	Wick ...	04·7	+4	S'W	4	b-bc	68	66	59	9	8	4	−	2-3	2-3	2000
16	Sumburgh ...	05·2	+6	S	5	z_o	57	92	55	6	−	7	−	0	9+	−
17	Blacksod Point	07·9	+10	WSW	5	c/r	60	75	52	7	6	−	−	10	10	1500
18	Malin Head ...	06·8	+8	SW	4	c	61	75	53	8	5	1	−	7-8	9+	1500
	Aldergrove ...	08·8	+10	WSW	2	c	64	65	52	9	8	−	−	9+	9+	2000
19	Birr Castle ...	09·9	+4	SW	1	c	65	85	61	8	8	2	−	7-8	9+	1500
20	Valentia Obsy.	11·3	+8	SW'S	4	c	62	65	50	8	5	−	−	10	10	4000
	Roches Point	10·6	+8	WSW	3	bc	62	85	57	9	6	3	5	2-3	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
London (Kew)	14·0	0	SSW	2	z_o	72	75	62	6	7	3	4	2-3	9+	4000	0	*
Croydon ...	14·9	0	SSW	3	c	71	75	62	7	−	4	6	0	9+	−	0	*
S. Farnborough	14·1	+2	W'S	3	c	72	65	58	7	5	5	8	2-3	9	2500	0	*
Boscombe Down	14·7	−2	SW'W	2	c-bc	69	65	56	7	−	7	−	0	7-8	−	0	*
Thorney Island	15·1	0	SW'S	1	c-bc	67	85	61	7	−	7	2	0	7-8	−	0	*
Lympne ...	14·9	−2	SW	2	z_o	66	75	57	6	−	−	3	0	4-6	−	0	2
Manston ...	14·3	+2	SSW	3	z_o	73	55	58	6	−	−	6	0	7-8	−	0	*
Shoeburyness ...	14·4	−2	SSW	2	z_o	72	75	61	6	−	3	−	0	7-8	−	0	*
Felixstowe ...	14·1	−6	SE'S	2	c-bc	67	85	63	6	−	3	6	0	7-8	−	0	2
Gorleston ...	14·2	−6	SSE	4	c-bc	68	85	63	7	8	7	1	0	7-8	−	0	3
Mildenhall ...	12·9	+4	W'S	2	c	77	55	58	7	−	7	2	0	9+	−	0	*
Cranwell ...	13·6	−2	WSW	2	c	75	45	53	7	5	7	1	2-3	9	5000	0	*
Birmingham ...	13·6	−2	SW	3	c-bc	70	55	53	8	1	5	1	1	7-8	4000	0	*
Upper Heyford	13·3	−4	SW	2	c-bc	75	45	54	7	1	3	9	1	7-8	3000	0	*
Ross-on-Wye	13·7	−4	WSW	3	c	71	65	57	7	1	3	−	1	9+	3000	0	*
Hartland Point	13·6	−6	WSW	3	c	63	92	60	7	5	7	−	2-3	9+	1500	0	3
Bristol ...	14·6	+7	W	3	c	70	75	61	7	5	7	−	2-3	9+	2300	0	*
Portland Bill ...	14·5	−6	SW	2	c-bc	62	92	59	7	6	4	−	4-6	7-8	1000	1	3
Plymouth ...	15·4	−2	SSW	3	c	63	92	60	6	1	7	−	Tr	9+	2000	0	1
The Lizard ...	14·9	−8	WSW	3	c-bc	63	85	60	8	5	5	−	7-8	7-8	2500	0	3
Scilly (St. Mary's)	14·3	0	SW'S	3	c/d	62	92	60	7	5	−	−	10	10	1200	0	3
Guernsey ...																	
Pembroke ...	14·1	0	SW	4	$d_o d_o$	60	97	60	6	5	−	−	10	10	1500	0	3
Holyhead (Valley)	12·4	0	SSW	5	c/d	60	97	59	6	5	2	−	9	10	800	1	3
Chester (Sealand)	12·7	+2	WSW	3	c	69	65	56	8	5	7	−	4-6	9+	3000	0	*
Manchester ...	13·0	−2	SW'S	3	z_o	68	65	59	6	5	3	−	2-3	9	4000	0	*
Spurn Head ...	13·4	0	SSE	3	z_o	66	85	61	6	7	3	−	4-6	7-8	2500	0	*
Catterick (Sc.) ...	12·3	−2	SSW	3	z_o	69	75	61	6	5	7	−	4-6	7-8	3500	0	*
Tynemouth ...	13·6	+4	SW	3	z_o	68	66	56	6	8	−	−	9+	9+	2100	0	2
Tiree ...	09·4	+8	SSW	4	c-bc	65	75	57	8	5	6	−	4-6	7-8	2500	0	4
Stornoway ...	08·6	0	SSW	3	c	67	75	57	7	8	2	−	7-8	9+	2000	0	*
Dalwhinnie ...	09·0	+4	SW'S	2	c	65	75	56	8	8	7	−	7-8	9+	1800	0	*
Aberdeen ...	10·1	0	SSW	4	$r_o r_p$	58	97	57	5	6	2	−	7-8	10	100	1	*
Wick ...	11·6	0	W'S	5	c-bc	64	85	59	7	5	4	2	4-6	7-8	1600	0	*
Sumburgh ...	09·7	+6	SW	4	c	59	85	53	8	5	7	−	4-6	9+	5000	1	4
Blacksod Point	07·7	+6	SW	4	c	57	75	49	7	8	−	8	9	9+	1800	0	6
Malin Head ...	04·5	+16	SSW	7	c/pr	57	75	49	7	8	−	8	9	9+	1800	0	6
Aldergrove ...	07·8	+4	SW	3	c	59	75	52	7	5	1	−	7-8	10	2500	0	*
Birr Castle ...	08·2	+6	SSW	3	c	62	85	56	7	5	9	7	Tr	9+	1500	0	3
Valentia Obsy.	06·4	+10	SSW	4	c	64	65	51	9	5	7	7	2-3	10	2500	0	*
Roches Point	06·0	+2	S	2	z_o	58	92	56	6	5	−	−	4-6	9	2500	0	2
Birr Castle ...	09·9	+4	SW	1	c	65	85	61	8	8	2	−	7-8	9+	1500	0	*
Valentia Obsy.	11·3	+8	SW'S	4	c	62	65	50	8	5	−	−	10	10	4000	1	4
Roches Point	10·6	+8	WSW	3	bc	62	85	57	9	6	3	5	2-3	4-6	1500	1	4

PAST 24 HOURS.

Stations	Weather. 7h.–13h. 26th (30)	Weather. 13h.–18h. 26th (40)	Weather. 18h. 26th to 1h. 27th (41)	Weather. 1h.–7h. 27th (42)
London (Kew)	bczocy	eyczo	czoc	cmbw
Croydon ...	bczobcy	bcycy	bczo	bbcmo
S. Farnborough	fcmo czoy	czoeyc	cbcbmo	bcmowcmo
Boscombe Down	cmobc	eyccy	cbcc	ccmocm
Thorney Island	cmobcmobcc		bcmw	bcmwcbmw
Lympne ...	bmozo	bbczo	bcmobcmo	bcmbwgmo
Manston ...	bmozob	bybczoy	czobcmo	bccmo
Shoeburyness ...	bzobczo	bczezo	czo	bczow
Felixstowe ...	bmbzob	bbcc	bcmo	bcmcmo
Gorleston ...	bc	bcc	bcb	ccozo
Mildenhall ...	cmobbcy	bcycy	cyczbmo	bbccmo
Cranwell ...	bycy	cy	cycmo	cmobcmo
Birmingham ...	bcc	cbcc	c	cz
Upper Heyford	bmobcmobcy	cy	cyczomo	cmo
Ross-on-Wye	czoc	cy	c	c
Hartland Point	c	c	cdodo	idfdf
Bristol ...	cmowczoc	cc	cmomo	cmoc
Portland Bill ...	off	e	bc	bcc
Plymouth ...	cmmo	cmo	cmo	cmoc
The Lizard ...	bccz	cprc	co	bfo
Scilly (St. Mary's)	cpoc	cido	dodinf	orfdc
Guernsey ...				
Pembroke ...	cmo	cmdodo	c	cw
Holyhead (Valley)	crocmo	cidom	cidmbc	bcc
Chester (Sealand)	cmozo	czo	cbc	bbc
Manchester ...	czo	czoy	czo	czobcmo
Spurn Head ...	czo	czo	c	cmo
Catterick (Sc.) ...	cmo	czo	cmo	cmoc
Tynemouth ...	cmo	cmo	cmo	cmo
Tiree ...	cmoprc	cbc	cbc	bcc
Stornoway ...	c	cirmirc	c	cbcc
Dalwhinnie ...	cmoirorc	c	cbcmow	bcmbcwcw
Aberdeen ...	prddrc	orfroc	crodf	oddfcw
Wick ...	cido	cbc	c	c
Sumburgh ...	c	c	cdc	bcprbc
Blacksod Point	cbc	bccprocc		cidirbc
Malin Head ...	oproc	co		oc
Aldergrove ...	czo	cbccczc	c	c
Birr Castle ...	cbc	bbcc		c
Valentia Obsy.	cmoirrmocmo	c	cmoc	cbcc
Roches Point	r	pr	c	c
	r	c	c	c
	cirbc	ccyc	cbc	bcc
	c	c		c
	pr	pr	pr	pr
	d	bc	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 27th July 1943

Districts	Forecast
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands	Light southwest winds; fair with some bright periods; very warm.
5 S.W. England 6 South Wales	Light or moderate variable mainly southwesterly winds; cloudy with some coastal and hill fog and drizzle; warm.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light southwest winds; fair with some bright periods; warm.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate southwest winds, fresh locally; local showers and bright periods; rather warm.
16 Orkneys and Shetlands 17 N.W. Ireland	As 13A – 15
18 N.E. Ireland	As 7 – 12
19 S.E. Ireland 20 S.W. Ireland	Moderate southwest to south winds; local showers at first, more general rain probable later; rather warm.

GENERAL INFERENCE

A deep depression centred south of Iceland is moving little and is filling up; a small secondary is approaching Ireland from the Southwest; weather will be fair apart from some showers in the extreme north and west, but some more general rain will spread to southwest Ireland later; it will be rather warm in the North and West, very warm in the Southeast.

FURTHER OUTLOOK

Rather unsettled southwesterly type.

Forecasts issued at 10-30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Tuesday 27th July 1943.

LOW

HIGH

STATION MODEL

High Cloud
Medium cloud
Temperature °F.
Present weather
Visibility
Dew Point °F
Low cloud
Amount of Low cloud
Height of Low cloud
Code figure (one figure) or hundreds of feet (two figures)
Weather in past hour
Past weather
Barometer mb.
Bar. change in past 3 hours in mbs.
Wind
Total Amount of cloud

Scale 1:5,000,000

Mb In.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Tuesday, 27th July

1943.

Clarke's Projection Scale 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday 27th July 1943 — No. 29832

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	63	*	*	*	*	*	*	*	*	*
	Croydon ...	290	16·8	+10	SSW	2	b	61	85	57	6	-	-	1	0	Tr	—
	S. Farnborough	226	16·1	+4	—	0	b	57	85	54	6	-	4	8	0	1	—
	Boscombe Down	417	16·2	+2	—	0	c-bc	57	85	54	7	-	7	6	0	7-8	—
	Thorney Island	10	16·2	+4	—	0	z_0	53	97	53	6	-	-	1	0	1	—
	Lympne ...	283	16·6	+6	NW	1	z_0	56	97	56	6	-	-	3	0	2-3	—
	Manston ...	154	15·6	0	WSW	2	z_0	58	92	57	6	-	-	2	0	4-6	—
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	15·5	0	SW	1	z_0	65	85	60	5	-	3	-	0	Tr	—
	Gorleston ...	5	14·5	+6	SW'W	2	b	64	85	59	7	-	-	-	0	0	—
	Mildenhall ...	15	14·9	+6	S'W	2	z_0	61	85	54	6	-	-	-	0	0	—
	Cranwell ...	203	14·2	0	SW	1	z_0	62	78	56	6	-	7	-	0	9	—
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	15·5	+2	SW'S	1	z_0	61	85	57	6	-	7	7	0	10	—
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	14·5	0	WSW	4	o/d	60	97	60	6	5	-	-	10	10	800
	Bristol ...	209	15·4	-2	SW	1	z_0	60	92	58	6	-	7	-	0	10	—
	Portland Bill ...	32	16·1	-2	SW	3	bc	60	92	58	7	3	-	-	4-6	4-6	4000
	Plymouth ...	86	16·2	0	S'W	2	z_0	62	97	61	5	5	7	-	4-6	4-6	2500
	The Lizard ...	240	15·9	+2	WSW	3	o	61	97	60	8	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	14·9	-2	SSW	4	rf	60	97	60	2	-	-	-	10	10	1150
	Guernsey ...	175															
6	Pembroke ...	142	15·1	+2	W	3	c	58	97	57	8	5	-	-	9+	9+	2500
7	Holyhead (Valley)	32	13·0	+6	SSW	4	bc	58	85	53	6	5	4	1	2-3	4-6	2500
	Chester (Sealand)	16	13·5	+6	SSW	1	bc	60	85	57	8	5	7	-	4-6	4-6	3000
8	Manchester ...	230	13·6	0	S'W	3	z_0	63	75	56	6	5	-	-	9	10	3500
10	Spurn Head ...	29	13·9	0	SW	2	c	64	75	56	7	7	3	-	4-6	9+	2500
	Catterick (Sc) ...	192	13·0	0	—	0	z_0	62	85	57	6	5	7	-	4-6	7-8	3000
	Tynemouth ...	108	13·1	0	SSW	3	z_0	64	85	57	6	5	-	-	9+	9+	2500
11	St. Abbs Head	280	10·8	+6	SSW	2	bc	59	97	58	7	5	-	-	4-6	4-6	4000
	Leuchars ...	36	10·2	+8	—	0	c	60	85	56	7	5	7	-	4-6	9+	2500
12	Renfrew (Abbotsl.)	19	10·6	+8	WSW	2	z_0	58	85	54	6	5	7	-	2-3	4-6	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	11·9	+2	W	2	c	58	92	56	8	8	4	-	9	9	3500
13A	Tiree	44	08·8	+2	SW	3	c	56	92	54	7	5	3	-	2-3	9	5000
13B	Stornoway ...	12	06·2	+8	SSW	5	bc	55	85	51	8	5	2	-	4-6	4-6	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	09·7	+6	SW	1	c	58	92	56	8	5	7	-	7-8	9+	2600
	Wick ...	114	08·3	+6	SSW	3	c-bc	57	85	53	9	5	-	-	7-8	7-8	4000
16	Sumburgh ..	19	07·7	+4	SE	1	c	53	97	53	7	5	7	8	2-3	10	5000
17	Blacksod Point	18	10·3	+6	SW'W	5	c	57	85	53	7	6	-	-	10	10	2500
18	Malin Head ...	84	09·4	+6	SSW	3	c	57	85	53	8	8	-	-	9+	9+	1500
	Aldergrove ...	268	11·6	+6	SW'S	2	bc	53	85	49	9	5	4	-	2-3	4-6	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·1	+4	S	3	c	55	92	53	8	8	-	-	9+	9+	2500
	Roches Point	22	13·9	+4	W'S	2	c	58	85	54	8	5	-	-	9+	9+	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	16·9	+10	SW	2	z_0	62	85	57	6	5	-	-	9+	9+	4000	0	*
	Croydon ...	17·7	+10	SW	2	z_0	68	75	56	6	-	7	-	0	9+	-	0	*
	S. Farnborough	17·2	+10	SW	1	z_0	60	85	57	6	6	5	1	2-3	9+	3000	0	*
	Boscombe Down	17·2	+10	SW'S	1	z_0	60	92	58	5	5	7	-	4-6	9+	600	0	*
	Thorney Island	17·3	+8	-	0	z_0	59	97	57	5	-	3	-	0	9+	-	0	*
	Lympne ...	17·5	+10	NW'N	2	z_0	63	85	57	5	-	5	1	0	4-6	-	0	1
	Manston ...	16·3	+6	WNW	1	z_0	63	75	57	6	-	3	4	0	4-6	-	0	*
2	Shoeburyness ...	18·3	+8	W'S	2	z_0	66	75	59	6	-	3	-	0	4-6	-	0	*
	Felixstowe ...	16·3	+10	W	1	z_0	63	92	61	6	-	3	1	0	7-8	-	0	1
	Gorleston ...	15·6	+10	N'N	2	z_0	60	85	56	6	5	3	-	2-3	7-8	1500	0	1
	Mildenhall ...	16·3	+10	SW'S	2	z_0	63	75	56	6	5	3	-	2-3	9+	5700	0	*
	Cranwell ...	15·4	+10	SW	3	z_0	65	75	57	6	-	3	2	0	7-8	-	0	*
3	Birmingham ...	15·9	+10	SW	2	z_0	62	85	58	6	5	7	-	7-8	9+	2500	0	*
	Upper Heyford	16·3	+10	SW	2	z_0	61	85	56	5	-	7	1	0	9+	-	0	*
4	Ross-on-Wye	15·5	+6	SSW	2	c	64	85	58	7	5	7	-	7-8	9+	2000	0	*
5	Hartland Point	16·0	+8	NNW	3	df	57	97	57	3	-	-	-	10	10	<150	1	3
	Bristol ...	16·4	+10	SSW	2	bc	63	85	59	8	5	4	2	2-3	4-6	4000	0	*
	Portland Bill ...	16·8	+6	SW	3	c	61	92	59	7	5	7	-	7-8	10	4000	1	3
	Plymouth ...	16·7	+6	SSW	2	id	62	92	60	5	5	-	-	10	10	200	0	1
	The Lizard ...	15·7	+2	WSW	3	o/f	62	97	62	5	5	-	-	10	10	800	1	3
	Scilly (St. Mary's)	16·4	+14	-	0	c	58	97	57	8	5	-	-	9+	9+	1600	1	3
6	Pembroke ...	16·3	+8	SW'W	1	c	60	85	56	8	5	-	-	9	9	2500	0	3
7	Holyhead (Valley)	14·8	+14	SW	1	c-bc	58	92	56	8	5	3	9	4-6	7-8	2000	1	1
	Chester (Sealand)	14·5	+10	S'E	1	c	61	75	54	8	5	4	9	4-6	9+	3000	0	*
8	Manchester ...	15·1	+14	SW	3	z_0	61	85	57	6	5	7	-	4-6	9+	3000	0	*
10	Spurn Head ...	15·4	+12	SW'S	2	c	63	92	61	7	7	3	2	4-6	9	2500	0	1
	Catterick (Sc) ...	14·3	+12	WSW	2	c	62	85	56	8	5	7	-	4-6	9+	2500	0	*
	Tynemouth ...	14·6	+10	SW	3	z_0	63	85	57	6	5	-	-	7-8	7-8	2800	0	2
11	St. Abbs Head	12·1	+10	W	3	c-bc	59	85	55	8	5	3	-	4-6	7-8	3500	0	2
	Leuchars ...	12·0	+16	SSW	2	c	59	75	52	8	1	3	9	2-3	9+	1000	0	*
12	Renfrew (Abbotsl.)	12·4	+16	SSW	4	c-bc	58	85	53	7	8	3	-	4-6	7-8	2500	4	*
	Eskdalemuir ...	13·7	+14	SSW	2	c-bc	55	92	53	7	5	7	4	4-6	7-8	2100	1	*
	Point of Ayre ...	13·6	+12	W'S	3	c	60	75	52	8	2	3	-	Tr	9+	2000	0	2
13A	Tiree	10·5	+12	S'W	3	c-bc	58	75	50	8	8	3	4	2-3	7-8	5000	1	3
13B	Stornoway ...	06·7	+4	SSW	6	b-bc/f	56	85	50	8	5	-	-	2-3	2-3	1800	0	3
15	Dalwhinnie ...	11·0	+12	S	3	c	57	73	50	8	5	4	-	7-8	9+	2500	0	*
	Aberdeen † ...	11·2	+14	WSW	2	c-bc	59	75	52	8	5	7	6	Tr	7-8	800	0	2
	Wick ...	09·3	+10	SW	4	c-bc	59	85	53	9	-	7	6	0	7-8	-	0	*
16	Sumburgh ..	08·3	+6	SW	3	c	56	97	55	8	5	7	1	1	9	5000	0	*
17	Blacksod Point	12·0	+14	WSW	3	c	58	85	54	8	8	-	-	9+	9+	2500	1	3
18	Malin Head ...	11·2	+14	SW	3	c-bc	57	85	53	8	8	-	-	7-8	7-8	1500	0	3
	Aldergrove ...	13·4	+14	SW	2	c	57	92	53	8	5	3	-	9	9+	2500	1	*
19	Birr Castle ...	13·8	+6	SW	2	c	58	85	54	8	5	1	-	7-8	9+	2500	0	*
20	Valentia Obsy.	14·1	+10	S'W	3	c/pr	57	92	55	8	8	-	-	7-8	7-8	1500	1	2
	Roches Point	14·8	+10	W'S	2	bc	60	85	55	8	5	3	-	2-3	4-6	2500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F. (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 26th Hrs. (38)
1	London (Kew)	75	57	46	-	-	7·5
	Croydon ...	78	58	53	-	-	9·1
	S. Farnborough	77	55	43	-	Tr	5·3
	Boscombe Down	74	56	50	-	-	4·8
	Thorney Island	71	50	47	-	-	*
	Lympne ...	74	56	48	-	-	10·9
	Manston ...	79	58	55	-	-	11·0
2	Shoeburyness ...	77	58	53	-	-	10·6
	Felixstowe ...	73	60	55	-	-	10·3
	Gorleston ...	68	59	52	-	-	13·0
	Mildenhall ...	84	59	53	-	-	6·6
	Cranwell ...	79	59	54	-	-	6·0
3	Birmingham ...	74	60	58	-	-	4·5
	Upper Heyford	77	58	49	-	-	*
4	Ross-on-Wye	73	61	59	-	-	1·8
5	Hartland Point	65	57	57	-	3	1·9
	Bristol ...	74	59	54	-	-	2·8
	Portland Bill ...	63	59	*	-	-	*
	Plymouth ...	66	60	59	-	-	4·9
	The Lizard ...	60	60	*	Tr	0·5	1·8
	Scilly (St. Mary's)	65	57	*	Tr	2	0·6
6	Pembroke ...	63	57	*	Tr	1	0·0
7	Holyhead (Valley)	65	56	51	Tr	Tr	*
	Chester (Sealand)	71	59	49	-	-	0·7
8	Manchester ...	72	59	*	-	-	*
10	Spurn Head ...	69	61	*	-	-	5·2
	Catterick (Sc) ...	72	60	51	-	-	1·2
	Tynemouth ...	70	61	58	-	-	*
11	St. Abbs Head	70	55	*	Tr	-	*
	Leuchars ...	70	55	*	0·3	-	1·7
12	Renfrew (Abbotsl.)	67	54	45	0·3	Tr	1·4
	Eskdalemuir ...	60	54	53	4	4	0·0
	Point of Ayre ...	69	56	*	Tr	-	0·4
13A	Tiree	62	53	49	-	0·5	1·3
13B	Stornoway ...	61	53	50	0·1	1	3·4
15	Dalwhinnie ...	60	53	50	1	-	5·5
	Aberdeen † ...	67	56	49	-	-	2·2
	Wick ...	71	56	54	-	-	*
16	Sumburgh ..	69	52	42	-	-	1·6
17	Blacksod Point	62	51	*	0·5	-	*
18	Malin Head ...	63	56		Tr	-	1·9
	Aldergrove ...	67	51	46	0·3	-	3·2
19	Birr Castle ...	67	54	47	0·3	-	3·3
20	Valentia Obsy.	63	55	52	Tr	0·6	0·1
	Roches Point	66	58		0·4	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 26th July ... 18h. G.M.T. ... 01h. G.M.T. 27th July ... 07h. G.M.T.

III	C_L C_M	ww VhN$_h$	DDFWN	C_L C_M	ww VhN$_h$	DDFWN	C_L C_M	ww VhN$_h$	DDFWN	C_L C_M	ww VhN$_h$	DDFWN
109	84	61644	53525	57	02856	00028	57	02855	17326	57	01863	19324
115	54	02944	20466				52	02844	20527	54	02844	20526
203				43	02953	53527						
206	23	25964	53485				57	02864	18225	53	02963	20125
210	24	02364	22524	47	02963	23327	57	02864	18128	57	02763	20226
219	8-	02865	17665	57	02866	17628	5-	02854	18524	8-	02865	18625
230	5+	02956	20267	87	02965	20227	53	02855	20226	86	25857	20287
245	57	05667	51428	84	02852	19387	53	01752	17213	54	02752	20316
260	8-	02753	20456	87	02765	51425	5-	05665	18426	57	01864	18324
278	57	21846	18357	87	02833	16327	5-	02855	20125	57	02264	20227
279	52	51725	20668	52	51635	18558	5-	08428	20658	57	05664	18326
285										57	05625	26327
288	57	05662	18427	57	05664	18325	57	05664	19127	59	05663	19226
576	53	02865	22426	57	02845	20227	53	02865	51425	53	02855	20227
301	53	05651	18324	52	05646	21428	51	51665	21328	47	02763	21355
321	67	02790	22227	07	02790	22226	07	05690	18125	57	05674	18127
299	54	05654	16314	7-	05656	16316	5-	05656	20226	54	05654	22114
282	57	05654	20227				07	02790	16127	57	05664	18227
310	--	02636	20416									
614	19	05661	20226				57	05575	24128	57	05674	22127

III	C_L C_M	ww VhN$_h$	DDFWN	C_L C_M	ww VhN$_h$	DDFWN	C_L C_M	ww VhN$_h$	DDFWN	C_L C_M	ww VhN$_h$	DDFWN
388	5-	02744	18558	5-	52628	18568	5-	05644	18364	53	02754	20225
334	--	03665	26128							--	02654	18116
340	57	02754	22427	57	05653	20327	57	05664	18228	57	02844	22227
136	2-	05666	03216	03	02790	04226	03	05690	18112	57	05682	17127
336	97	02754	16328	53	02752	16316				57	02754	20316
350				09	02790	20125	03	05690	16114	07	05690	22126
368	53	05654	20126	57	05663	20327	5-	05647	00027	52	51647	22158
379	13	02764	22316	13	02762	22327	07	05690	20327	57	05544	20127
390	05	05690	16255	07	05620	22127	00	05590	18110	07	08490	18126
382	77	02764	20227	53	02852	23127	07	05690	00026	03	05690	00027
438	04	05690	22213	87	05663	24416	40	05562	28212	53	04353	26244
430	5-	05645	18225	03	05690	02226	00	05590	00000	05	08490	02126
409	5-	61634	22228	57	05844	20327	5-	51628	18358	5-	52508	32158

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 27th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington.
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	bcz$_0$cy	cycz$_0$	cz$_0$cmy	Kew 24 hours ended 7h. Max. Time 01 7-10 Min. Time 26th 20·1 11-24h 27th
Croydon ...	bcz$_0$bcy	bcycy	bczcm$_0$	
Greenwich ...	bbcy	bccy	cycbc	
Camden Square	bcz	cz	*	
Kensington ...	bczbc	bc	*	
Hampstead ...	bc	bc	bc	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	75	57	46	-	-	7·5	*	*
Croydon ...	78	58	53	-	-	9·1	*	*
Greenwich ...	81	59	49	-	-	9·4	45	63
Westminster ...	78	60	55	-			63	76
Regents Park ...	79	60	55	-	-		47	69
Camden Square ...	80	60	60	-	-	*	*	68
Kensington ...	79	60	51	-	-		63	69
Hampstead ...	78	57	52	-	-		*	73

SECRET

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THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Wednesday 28th July 1943

No. 29833

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	17·1	−2	SW'S	3	c-bc	74	55	55	8	1	4	−	Tr	7-8	4000
	Croydon ...	17·3	−6	WSW	3	bc	79	55	59	8	−	8	1	0	4-6	−
	S. Farnborough	17·4	−2	N'S	3	bc	76	55	57	8	1	7	9	1	4-6	3000
	Boscombe Down	17·3	−2	SW	2	c	73	65	59	8	2	7	−	9	9+	2500
	Thorney Island	18·2	+4	SSW	3	bc	72	65	60	8	1	4	9	Tr	4-6	4000
	Lympne ...	17·9	0	SSW	3	Z_o	75	55	60	6	−	4	1	0	2-3	−
	Manston ...	17·4	+6	ESE	2	Z_o	76	45	55	6	−	8	6	0	2-3	−
2	Shoeburyness ...	17·6	−6	SSW	2	Z_o	79	55	59	6	−	3	−	0	4-6	−
	Felixstowe ...	16·9	+2	S'W	4	Z_o	77	65	65	6	1	3	1	Tr	4-6	4000
	Gorleston ...	16·6	+4	SE'E	2	Z_o	67	85	62	6	5	7	−	4-6	7-8	1500
	Mildenhall ...	16·6	−2	WSW	1	bc	80	45	59	7	1	3	2	1	4-6	3500
	Cranwell ...	15·8	−2	SW	3	c/p	75	75	69	7	8	−	−	10	10	4000
3	Birmingham ...	16·9	+4	SW	3	c	69	75	61	7	5	3	−	9	9+	2500
	Upper Heyford	16·3	+4	WSW	2	c	75	55	59	7	7	6	1	9	9+	2500
4	Ross-on-Wye	16·7	+4	SW	3	c-bc	71	65	60	8	2	4	−	4-6	7-8	3000
5	Hartland Point	17·4	+4	W	1	c	64	85	60	9	5	−	−	9+	9+	2000
	Bristol ...	17·5	+4	SW	2	c	73	75	64	8	2	−	−	9+	9+	2200
	Portland Bill ...	18·2	+4	SW	3	c-bc	65	85	62	8	1	4	−	4-6	7-8	4000
	Plymouth ...	18·1	+4	SSW	3	d,d	63	97	63	4	5	−	−	10	10	100
	The Lizard ...	17·0	+4	WSW	2	bc/p	67	85	64	8	8	4	−	4-6	4-6	2000
	Scilly (St. Mary's)	17·8	+6	SW'S	2	c	66	75	57	8	5	−	−	9+	9+	1000
	Guernsey ...															
6	Pembroke ...	17·6	+4	WSW	2	bc	65	85	59	8	2	2	1	2-3	4-6	3000
7	Holyhead (Valley)	16·5	+10	SSW	3	c	64	75	56	8	8	3	−	1	9+	3000
	Chester (Sealand)	16·2	+10	NNW	2	bc	70	55	54	8	5	−	−	4-6	4-6	2500
8	Manchester ...	16·2	+2	SW'W	3	c-bc	69	65	57	8	2	3	−	4-6	7-8	2500
10	Spurn Head ...	16·3	+8	SE'E	3	Z_o	66	75	59	6	7	3	−	4-6	9+	3800
	Catterick (Sc.)...	15·0	−2	SW	2	bc	72	45	52	8	7	6	9	4-6	4-6	3500
	Tynemouth ...	16·4	+12	E	2	Z_o	66	75	56	6	8	−	−	7-8	7-8	2800
11	St. Abbs Head	13·6	+8	WSW	1	c	66	55	49	8	1	4	−	4-6	9	1800
	Leuchars ...	13·8	+10	SW	5	c	69	45	45	8	2	7	−	7-8	9+	2500
12	Renfrew (Abbotsl.)	14·4	+12	SW'W	4	c	65	55	50	9	8	7	6	9	9+	2800
	Eskdalemuir ...	14·8	+10	SW'S	4	bc	65	65	53	8	8	7	4	4-6	4-6	2500
	Point of Ayre...	15·7	+8	WNW	2	c	68	65	56	8	9	4	−	2-3	9+	3000
13A	Tiree	13·4	+14	SW	3	c-bc/pr	59	75	52	8	8	3	1	4-6	7-8	2000
13B	Stornoway ...	09·9	+16	SSW	5	c-bc/pr	59	75	52	8	8	6	−	7-8	7-8	1800
15	Dalwhinnie ...	13·0	+16	SW	3	c	60	75	52	8	8	−	9	7-8	9	2500
	Aberdeen ...	12·5	+8	S	4	c-bc	65	65	51	8	7	9	9	4-6	7-8	7200
	Wick ...	11·4	+10	SW	4	c-bc	66	65	53	9	8	5	6	7-8	7-8	2500
16	Sumburgh ...	11·2	+16	S'W	3	b-bc	61	75	52	8	5	−	9	1	2-3	5000
17	Blacksod Point	13·6	+6	WSW	3	c	62	75	54	8	8	−	−	9+	9+	2500
18	Malin Head ...	13·5	+10	W'N	3	c-bc	62	65	50	8	8	6	−	4-6	7-8	1500
	Aldergrove ...	14·8	+6	SW'S	2	c-bc	66	55	51	9	8	7	1	4-6	7-8	2500
19	Birr Castle ...	14·3	+2	SSW	1	c	65	65	54	8	8	2	−	7-8	10	1500
20	Valentia Obsy.	14·2	−2	SSE	5	c/R	59	85	54	6	6	2	−	9+	10	1500
	Roches Point	16·1	+6	NSW	3	c	63	85	58	8	8	1	−	4-6	9+	1500

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	17·3	0	SW'W	2	c-bc	75	55	56	8	7	5	9	2-3	7-8	4000	0	*
	Croydon ...	17·9	0	SSW	3	bc	78	55	59	8	1	4	9	1	4-6	3500	0	*
	S. Farnborough	17·6	+2	WSW	3	bc	75	55	60	8	7	7	9	2-3	4-6	2500	0	*
	Boscombe Down	17·5	+2	SW'W	2	bc	73	65	61	9	2	3	−	2-3	4-6	2000	0	*
	Thorney Island	18·3	+2	SW'W	2	bc	71	75	61	8	2	4	9	Tr	4-6	4000	1	*
	Lympne ...	17·9	−2	WSW	3	Z_o	72	55	55	6	−	7	9	0	4-6	−	0	§2
	Manston ...	17·8	+4	N'N	3	bc	75	55	56	7	−	7	9	0	4-6	−	0	*
2	Shoeburyness ...	17·2	0	SW	2	Z_o	75	65	62	6	−	3	−	0	4-6	−	0	*
	Felixstowe ...	16·8	−2	S'E	3	Z_o	69	85	65	6	−	3	−	0	9	−	0	3
	Gorleston ...	16·2	−2	S'E	3	Z_o	70	55	50	6	7	3	−	4-6	9	1500	0	3
	Mildenhall ...	16·3	−2	NN'N	2	c-bc	73	55	60	8	1	7	−	2-3	7-8	3500	0	*
	Cranwell ...	16·1	0	W'S	3	c-bc	77	55	57	8	2	4	1	4-6	7-8	3000	0	*
3	Birmingham ...	16·8	0	WSW	3	bc	74	55	57	8	1	4	−	2-3	4-6	4000	0	*
	Upper Heyford	16·7	+2	WSW	3	bc	77	55	61	8	8	6	3	2-3	4-6	3000	0	*
4	Ross-on-Wye	16·7	0	SW	3	b-bc	73	65	61	8	1	−	9	1	2-3	3500	0	*
5	Hartland Point	17·7	−2	W	3	bc	63	75	56	9	5	4	1	4-6	4-6	2500	0	3
	Bristol ...	17·6	−2	SW	2	c-bc	73	75	64	8	8	4	−	4-6	7-8	2500	0	*
	Portland Bill ...	18·0	−4	SW	3	c-bc	63	85	59	8	1	4	−	4-6	7-8	4000	1	3
	Plymouth ...	18·3	+2	SSW	1	f	62	97	62	2	−	−	−	10	10	150	1	1
	The Lizard ...	18·1	+4	W	2	c-bc	66	85	63	8	8	−	−	7-8	7-8	2500	0	3
	Scilly (St. Mary's)	18·0	+2	SW	2	c/d	62	92	59	8	5	−	−	9	9	1000	1	3
	Guernsey ...																	
6	Pembroke ...	17·7	0	SW	1	bc	63	85	58	8	7	6	4	2-3	4-6	3000	0	2
7	Holyhead (Valley)	17·2	+2	SW	3	c-bc	63	75	55	9	4	7	9	Tr	7-8	3500	0	1
	Chester (Sealand)	16·9	+2	N'N	3	c-bc	66	65	54	8	5	−	9	2-3	7-8	2500	0	*
8	Manchester ...	16·5	+2	NNW	3	b	69	55	53	8	2	6	−	Tr	1	3000	0	*
10	Spurn Head ...	16·3	0	SE'E	2	Z_o	65	85	60	6	7	3	−	4-6	9	4000	0	1
	Catterick (Sc.)...	16·4	+10	WSW	2	c-bc	68	55	51	8	5	3	1	2-3	7-8	3000	0	*
	Tynemouth ...	16·7	+4	NNW	2	bc	67	55	51	7	2	4	2	2-3	4-6	2800	0	1
11	St. Abbs Head	14·7	+2	SE	1	c	64	65	52	8	5	4	−	7-8	9	2500	0	2
	Leuchars ...	15·1	+6	WSW	3	c-bc	69	45	48	8	8	3	4	2-3	7-8	2500	0	*
12	Renfrew (Abbotsl.)	15·2	+4	SW	3	c-bc	65	65	52	8	1	6	4	4-6	7-8	2500	0	*
	Eskdalemuir ...	15·9	+6	SSW	4	c-bc	61	65	50	8	5	4	2	2-3	7-8	2100	0	*
	Point of Ayre...	16·4	0	SW'W	2	c	66	55	51	8	−	7	9	0	9+	−	0	1
13A	Tiree	14·6	+4	SSW	3	c-bc	60	75	51	9	8	3	−	7-8	7-8	4000	1	3
13B	Stornoway ...	12·5	+16	SSW	5	c	57	75	51	8	8	6	−	7-8	9	1500	1	4
15	Dalwhinnie ...	15·0	+8	SW	3	c	59	65	48	8	5	−	1	7-8	9	4000	0	*
	Aberdeen ...	12·7	+10	SW'W	3	c	68	55	49	8	4	9	9	2-3	9	5700	0	2
	Wick ...	12·7	+8	SW	4	bc	65	65	54	9	7	7	−	4-6	4-6	2000	0	*
16	Sumburgh ...	13·1	+10	SSW	3	c-bc	59	85	53	8	5	−	−	7-8	7-8	3500	0	2
17	Blacksod Point	14·0	0	S	1	ido	58	97	57	7	6	−	−	10	10	1500	1	2
18	Malin Head ...	14·8	+6	E'N	2	ir	58	85	53	8	5	−	−	10	10	1500	0	2
	Aldergrove ...	15·6	+2	S	1	c	62	75	53	9	5	1	−	9+	10	4000	0	*
19	Birr Castle ...	14·6	−2	S	1	c	62	85	57	8	5	2	−	7-8	10	2500	0	*
20	Valentia Obsy.	12·7	−10	SE	5	rr	60	97	59	4	6	−	−	10	10	800	1	4
	Roches Point	15·5	−6	SW	3	c/r	61	92	59	8	5	7	−	4-6	9	1500	1	4

PAST 24 HOURS.

District	Weather. 7h.–13h. 27th (39)	Weather. 13h.–18h. 27th (40)	Weather. 18h. 27th to 1h. 28th (41)	Weather. 1h.–7h. 28th (42)
1	cm_o bcy	bcm	bcybc	bcm$_o$w
	cz$_o$ cbcy	bcy	bcybc	bcwminsfb
	cpc	bcy	baybcb	om$_o$bf$_o$m$_o$
	cm_obccc	cbc	bcbwbfff	ofidcm$_o$e
	cm_ocbc	bc	bcwbw	bcfom$_o$w
	bcbz$_o$y	bczoy	bcz$_o$bcm$_o$	bcm$_o$wg
	bcbz$_o$y	bcczoy	bc	bcbm$_o$
	cz$_o$bcz$_o$y	bczoy	bcz$_o$	bcm$_o$
	bcz$_o$	bc ccm$_o$	bcm$_o$bm$_o$	bcm$_o$bm
	bcz$_o$	czozoy	cybcbcz$_o$	cbcz$_o$
	cz$_o$bcy	bcy	bcycbbc	bbcbm$_o$
	bcz$_o$cy	cybcy	bc bbz$_o$	bccm$_o$
	c	bbc	bcb	bcb
	cm_ocbc	cycbc	bcybc	bcm$_o$fom$_o$
	ccbc	cbc	bcb	bwbcb
	c	cbcv	bcc	cbcc
	bcc	ccbc	bcc	ccd$_o$d$_o$c
	bcc	c	off	odd
	omddf	omfe	om$_o$bc	om$_o$cbcc
	dfcbc	bcc	clbcw	bccw
	c	cdc	bcbw	bbc
	cbc	bc	cw	c
	cbcc	cbccbc	cbc	bcbc
	cy	bcy	bcc, bc	bcm$_o$ff
	cm_o idc	cbcy	bcym$_o$	bm$_o$cw
	cbc	cbc	cm$_o$	cm$_o$
	cm_o	bcy	c	c
	cm$_o$	cbc	c	c
	c	c	bcbcr$_o$	cr$_o$bc
	ecy	cybcy	c	ccir$_o$
	cwecy	cyccy	c	r$_o$r$_o$drrcm$_o$
	cbc	bcyc	cpr$_o$c	c
	c	c	ir$_o$c	r$_o$r$_o$
	bccprbc	bcc	cid$_o$	cd$_o$d$_o$m$_o$
	bcccpR	cpRcprbc	cbc	bcc
	cpr$_o$	c		coc.
	cbcc	cy	cybcc	c
	c	cbc	bcb	ccid$_o$
	cbc	bcc	cbc	bccwbc
	e	d	d	d
	pr	c	circid$_o$	cod$_o$m$_o$
	ccy	cyc		
	c	r	r	r
	pr	r	r	pr
	r	pr		d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 28th July. 1943

Districts.	Forecasts
1 S.E. England 2 E. England .. 3 E. Midlands ...	Light southwest wind, becoming northerly tomorrow; fair but cloud increasing; chance of a few local thundery showers; warm today, cooler tomorrow.
4 W. Midlands 5 S.W. England 6 South Wales	Moderate southwest wind becoming ~~northerly~~ moderate to fresh; cloudy; light local rain at first, then fair; becoming cooler generally.
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 13A W. Scotland .. 13B N.W. Scotland 14 Mid Scotland	Wind variable light, finally northwest to north light; cloudy or dull; some occasional rain today; bright periods tomorrow; rather warm today, then cooler.
15 N.E. Scotland	Moderate southwest winds veering westerly tomorrow;
16 Orkneys and Shetlands	fair at first, then cloudy with some occasional rain; rather warm becoming cooler.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate northwest winds, veering north or northeast; cloudy with some local showers at first; then fair or fine; cooler

GENERAL INFERENCE

A shallow depression over Ireland is moving northeast and filling up, whilst an anticyclone will move in to a position off West Ireland. There will be a little rain at first in the northern half of the country, and there may be a few showers elsewhere, but weather will become generally fair again although much cooler than of late.

FURTHER OUTLOOK

Fair weather for two or three days; day temperatures rising in the West.

Forecasts issued at 1030.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Wednesday 28th July 1943.

LOW

HIGH

1018

1020

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud { Code figure (one figure) or hundreds of feet (two figures)

Total Amount of cloud

Wind

Barometer mb.

Bar. change in past 3-hours in mbs:

Weather in past hour

Past weather

Scale 1:5,000,000

Mb

H.M.S.O. Press, M.O., Dunstable

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

Morning of

Wednesday 28th July

1943.

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 28th July, 1943 — No. 29833

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	65	*	*	*	*	*	*	*	*	*
	Croydon ...	290	20·2	+6	–	0	bc	63	92	62	7	–	4	–	0	4-6	–
	S. Farnborough	226	20·1	+10	W'N	1	b	63	92	60	8	–	4	–	0	Tr	–
	Boscombe Down	417	19·3	+6	–	0	Ft	59	97	59	1	–	–	–	10	10	<150
	Thorney Island	10	20·2	+10	WNW	1	b	60	92	59	7	–	–	1	0	1	–
	Lympne ..	283	20·0	+6	WSW	1	z_o	58	92	57	6	–	3	–	0	4-6	–
	Manston ..	154	19·0	+2	WSW	2	b-bc	62	85	58	7	–	2	–	0	2-3	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	18·4	+16	W'N	1	z_o	67	85	64	6	–	–	–	0	0	–
	Gorleston ...	5	18·0	+6	NW'W	1	z_o	61	92	58	6	–	7	–	0	4-6	–
	Mildenhall ...	15	18·8	+8	W'N	2	b	67	75	60	7	5	–	–	1	1	4000
	Cranwell ...	203	18·5	+8	NW	1	z_o	61	75	54	6	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19·3	+10	SW	1	b	63	92	61	7	5	–	–	1	1	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·1	+6	S	3	b	57	92	55	8	–	4	–	0	1	–
	Bristol ...	209	19·8	+6	WSW	3	c	63	92	61	7	5	–	–	10	10	900
	Portland Bill ...	32	19·8	+12	SW	3	o/f	60	92	58	6	5	–	–	10	10	800
	Plymouth ...	86	20·2	+6	SSW	1	z_o	61	97	61	6	5	–	–	10	10	400
	The Lizard ...	240	20·1	+10	W	3	b-bc	59	97	58	8	4	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	163	19·3	c	SW'S	3	bc	58	97	57	8	5	–	–	2-3	2-3	1200
	Guernsey ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	Pembroke ...	142	18·5	0	SW	3	c-bc	60	92	57	8	8	–	–	7-8	7-8	2500
7	Holyhead (Valley)	32	18·0	0	S	2	b-bc	58	92	57	8	–	4	–	0	2-3	–
	Chester (Sealand)	16	18·5	+6	–	0	bc	56	85	53	6	5	7	–	4-6	4-6	3600
8	Manchester ...	230	18·8	+8	–	0	z_o	58	92	51	6	5	–	1	1	2-3	3000
10	Spurn Head ...	29	18·2	+8	NW'N	2	z_o	62	85	57	6	–	–	–	0	0	–
	Catterick (Sc) ...	192	18·3	+6	–	0	bc	57	85	51	8	–	2	–	0	4-6	–
	Tynemouth ...	108	18·7	+6	–	0	c-bc	60	75	52	7	8	–	–	7-8	7-8	2500
11	St. Abbs Head	280	16·8	+12	SW	3	$r_o r_o$	58	85	52	7	5	–	–	9+	9+	2500
	Leuchars ...	36	17·0	+6	–	0	c	58	75	52	8	5	7	–	7-8	10	3000
12	Renfrew (Abbotsl.)	19	17·1	+6	–	0	c	59	85	53	7	5	2	–	9	10	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	17·6	+6	S	2	c	59	92	56	8	6	7	–	2-3	10	1800
13A	Tiree	44	16·3	+8	SSW	1	id_o	55	85	50	7	5	–	–	10	10	1000
13B	Stornoway ...	12	14·8	+10	SSW	4	bc	55	85	51	8	5	–	–	4-6	4-6	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	16·7	+8	–	0	c	53	92	51	8	5	7	–	7-8	9	6000
	Wick ...	114	16·1	+10	WSW	3	b-bc	54	75	46	9	4	–	–	2-3	2-3	3500
16	Sumburgh ..	19	15·4	+10	–	0	b-bc	54	92	52	8	5	–	–	2-3	2-3	3000
17	Blacksod Point	18	15·1	+6	WSW	3	$d_o d_o$	56	97	55	7	6	2	–	2-3	10	1500
18	Malin Head ...	84	15·3	+2	S	1	c	58	92	56	8	5	–	–	10	10	1500
	Aldergrove ...	268	16·5	+2	S'E	1	$d_o d_o$	58	97	57	6	–	2	–	10	10	800
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	15·5	+14	NW	4	z_o	58	97	57	6	5	–	–	10	10	450
	Roches Point	22	15·3	-4	S	5	f	60	97	59	3	–	–	–	10	10	<150

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

District	Stations	Baromat M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	21·0	+16	WSW	2	z_o	63	92	61	5	5	–	–	10	10	2500	0	*
	Croydon ...	21·7	+10	W	2	df	60	97	60	3	–	–	–	10	10	<150	1	*
	S. Farnborough	21·1	+10	WSW	1	z_o	61	92	59	5	5	–	–	10	10	500	0	*
	Boscombe Down	21·0	+12	–	0	c-bc	60	92	58	7	5	–	–	7-8	10	500	1	*
	Thorney Island	20·9	+14	WNW	1	m	62	97	62	4	–	2	–	10	10	400	1	*
	Lympne ..	20·8	+16	NW	1	z_o	69	75	61	6	–	4	9	0	1	–	0	1
	Manston ..	19·9	+10	W'N	2	z_o	67	85	62	6	–	–	9	0	2-3	–	0	*
2	Shoeburyness ...	20·5	+8	WNW	2	z_o	67	85	63	6	–	4	–	0	Tr	–	0	*
	Felixstowe ...	19·9	+14	W'N	1	z_o	67	85	64	6	–	4	–	0	Tr	–	0	2
	Gorleston ...	18·7	+4	NW'W	1	z_o	70	75	62	6	–	4	–	0	2-3	–	0	2
	Mildenhall ...	18·9	+10	WSW	2	z_o	65	85	60	6	–	4	1	0	Tr	–	0	*
	Cranwell ...	19·8	+12	W	1	z_o	62	75	54	6	5	–	–	9+	9+	2500	0	*
3	Birmingham ...	20·2	+10	SW	2	c	62	75	54	8	5	7	–	4-6	9	2500	0	*
	Upper Heyford	20·1	+6	SW'S	2	z_o	63	92	61	6	5	–	–	10	10	800	0	*
4	Ross-on-Wye	19·5	+6	SW'S	2	b-bc	62	85	57	7	–	–	1	0	2-3	–	0	*
5	Hartland Point	19·6	+8	SW	3	c-bc	60	85	56	8	5	4	1	7-8	7-8	2000	0	4
	Bristol ...	20·6	+10	SSW	2	c	63	85	60	8	8	3	1	2-3	9	2500	1	*
	Portland Bill ...	20·9	+14	WSW	3	dd	60	92	58	6	5	–	–	10	10	2500	1	3
	Plymouth ...	20·8	+6	SW	1	c	61	97	60	8	5	–	1	9	9+	1800	0	1
	The Lizard ...	20·0	+4	WSW	3	c	62	92	60	8	5	–	–	9+	9+	2500	0	3
	Scilly (St. Mary's)	19·8	+6	SW	3	c	61	97	60	7	5	–	–	10	10	1200	1	3
	Guernsey ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	Pembroke ...	19·2	+2	SW'S	4	c	61	97	61	8	5	–	–	10	10	2500	0	2
7	Holyhead (Valley)	18·6	+10	SSE	4	c	61	85	56	3	5	7	–	7-8	9+	3000	0	3
	Chester (Sealand)	18·8	+2	–	0	bc	59	85	55	6	5	4	–	2-3	4-6	3000	0	*
8	Manchester ...	19·1	+6	SSW	3	b	59	85	53	7	4	3	1	Tr	1	4000	0	*
10	Spurn Head ...	19·4	+8	NW	2	z_o	62	85	58	6	7	7	–	4-6	9	2500	0	1
	Catterick (Sc) ...	19·1	+2	–	0	c-bc	59	75	52	9	–	3	1	0	7-8	–	0	*
	Tynemouth ...	18·6	+6	W	1	c-bc	61	75	54	7	2	4	–	4-6	7-8	2500	0	1
11	St. Abbs Head	17·6	+6	–	0	bc	60	75	51	8	1	4	–	4-6	4-6	4000	0	2
	Leuchars ...	18·1	+8	SW	1	ir_o	60	75	52	7	–	7	–	0	9+	–	0	*
12	Renfrew (Abbotsl.)	17·5	+6	–	0	z_o	58	92	56	6	5	–	–	7-8	10	1800	1	*
	Eskdalemuir ...	18·6	+6	–	0	c	55	92	53	8	5	7	–	9	9+	1200	1	*
	Point of Ayre ...	18·0	+2	S'W	2	$r_o r_o$	59	92	57	6	6	2	–	7-8	10	1000	1	1
13A	Tiree	16·6	+6	–	0	$d_o d_o$	55	97	55	6	5	–	–	10	10	200	1	2
13B	Stornoway ...	15·7	+2	S	3	c	55	92	53	8	8	6	4	7-8	9	1500	0	2
15	Dalwhinnie ...	17·0	+4	SSW	3	c	57	85	52	7	5	–	–	7-8	9+	1500	0	*
	Aberdeen † ...	17·6	+6	SSW	1	c	60	75	51	8	–	9	–	0	10	–	0	1
	Wick ...	17·1	+4	SSW	1	c/r	57	85	52	9	5	2	–	4-6	10	4500	1	*
16	Sumburgh ..	16·4	+6	SW	1	bc	56	85	53	8	5	3	–	2-3	4-6	4000	0	2
17	Blacksod Point	17·6	+18	N'W	1	c	56	92	54	8	6	–	–	10	10	1500	1	2
18	Malin Head ...	15·5	+4	SSW	1	c	59	92	57	8	5	–	–	10	10	1500	0	1
	Aldergrove ...	16·6	+4	SSE	1	$d_o d_o$	58	92	57	6	5	–	–	10	10	900	1	*
19	Birr Castle ...	15·5	+6	S	2	c	62	97	61	7	6	2	–	7-8	10	800	1	*
20	Valentia Obsy.	18·9	+18	NW'N	4	c	56	92	54	8	8	–	–	9+	9+	1500	1	3
	Roches Point	17·6	+24	W	1	obc/d	60	97	59	8	5	3	–	4-6	7-8	800	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 27th Hrs. (38)
1	London (Kew)	79	61	56	–	–	7·5
	Croydon ...	83	59	54	–	Tr	9·8
	S. Farnborough	79	59	48	–	Tr	8·1
	Boscombe Down	75	58	54	–	Tr	6·0
	Thorney Island	72	57	52	–	–	*
	Lympne ..	78	57	49	–	–	11·2
	Manston ..	81	60	57	–	–	9·0
2	Shoeburyness ...	81	63	55	–	–	9·6
	Felixstowe ...	78	64	59	–	–	10·2
	Gorleston ...	75	61	56	–	–	9·3
	Mildenhall ...	84	60	53	–	–	7·6
	Cranwell ...	78	55	52	–	–	5·9
3	Birmingham ...	75	55	49	–	–	5·9
	Upper Heyford	77	60	51	–	–	*
4	Ross-on-Wye	75	57	48	–	–	6·2
5	Hartland Point	66	56	54	–	–	2·2
	Bristol ...	75	61	56	–	0·1	3·4
	Portland Bill ...	65	59	*	–	0·1	*
	Plymouth ...	65	58	51	0·2	0·1	0·0
	The Lizard ...	69	58	*	Tr	–	4·9
	Scilly (St. Mary's)	67	57	*	0·1	Tr	2·5
	Guernsey ...	*	*	*	*	*	*
6	Pembroke ...	65	58	*	–	–	3·8
7	Holyhead (Valley)	66	58	*	–	–	*
	Chester (Sealand)	72	53	45	–	–	10·7
8	Manchester ...	72	51	44	Tr	–	*
10	Spurn Head ...	73	58	*	–	–	5·0
	Catterick (Sc) ...	74	54	50	–	–	6·2
	Tynemouth ...	67	57	55	–	–	*
11	St. Abbs Head	66	53	*	–	0·4	*
	Leuchars ...	71	54	*	–	Tr	10·3
12	Renfrew (Abbotsl.)	69	56	55	–	2	6·4
	Eskdalemuir ...	66	61	45	–	0·3	7·6
	Point of Ayre ...	71	57	*	–	1	2·4
13A	Tiree	63	53	51	0·6	3	11·7
13B	Stornoway ...	62	52	46	2	–	2·8
15	Dalwhinnie ...	61	54	47	0·1	–	5·6
	Aberdeen † ...	74	54	*	–	–	7·8
	Wick ...	67	49	42	–	0·1	*
16	Sumburgh ..	61	52	42	–	–	3·0
17	Blacksod Point	63	53	*	0·5	2	*
18	Malin Head ...	62	55	*	0·3	1	5·1
	Aldergrove ...	68	56	56	–	14	2·5
19	Birr Castle ...	65	57	55	0·1	2	1·9
20	Valentia Obsy.	60	55	55	9	1	0·6
	Roches Point	65	60	*	1	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 27th Jul: $C_L C_M$	ww VhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	ww VhN$_h$	DDFWN	01h. G.M.T. 28th July: $C_L C_M$	ww VhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	ww VhN$_h$	DDFWN
109	74	01863	20314	53	02864	16225	53	01843	20113	57	02864	18316
115	54	02844	20426	54	02844	20326	52	02844	20427	57	02944	20327
203												
206	83	02964	20325	7-	02964	20224	56	01863	00023	52	52647	00058
210	87	02964	20415	53	02963	20425	53	01862	16113	57	02864	00027
219	26	01853	18613	53	02852	18515	27	02852	14756	87	02844	18387
230	86	02956	20267	53	02966	20226	5-	51748	00058	62	51745	00068
245	24	02953	22325	44	02963	22325	52	61854	00027	07	02609	24166
260	2-	01874	18224	77	02755	20328	57	05775	20126	57	22855	20166
278	74	02964	20216	57	02866	22327	5-	02758	13368	62	51826	13368
279	26	02963	22415	10	02868	22315	53	22863	20264	57	02764	15227
285	23	01854	24415							53	02854	28326
288	14	01863	21314	54	01853	23214	05	01890	00014	05	02890	00025
575	5-	02857	16427	52	21865	20158	5-	02638	00028	57	02846	00068
301	13	01853	20325	53	02966	29126	57	01863	08124	53	05565	11225
321	5-	02758	22228	74	01764	22224	04	05620	00013	5-	41467	00047
299	8-	05654	20316	53	05653	18214	56	01753	28113	54	05654	28214
282	5-	02765	21325	04	01890	26314	04	08890	00013			
310										--	01635	20315
614	5-	05667	26227	23	02764	20214	05	05690	00014	5-	05567	26127

III	13h. G.M.T. 27th Jul: $C_L C_M$	ww VhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	ww VhN$_h$	DDFWN	01h. G.M.T. 28th July: $C_L C_M$	ww VhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	ww VhN$_h$	DDFWN
388	23	02965	19325	53	02863	20326	5-	01764	12214	53	02844	14327
384	--	02645	20316									
340	83	02954	21825	74	01953	20214	54	01654	00014	53	01761	18213
136				89	05664	04225	03	05620	20113	83	05662	21212
336	13	01764	20415	13	01763	20314				53	02754	20316
360	18	02864	18225	45	02863	22225	50	01764	18114	5-	05628	20248
368	57	02954	20127	77	01963	24224	53	01863	00014	5-	02767	00027
379	17	02855	22326				50	05503	26213	5-	05547	20127
390	03	05630	24324	07	01790	20214	03	05690	00015	10	04252	22101
382	84	02864	22225	83	02964	21225	5-	02726	24126	5-	02848	18128
438	40	05662	22212	57	05663	22314	50	45153	24343	5-	43258	26343
430	03	01790	18214	07	02890	18315	07	05690	00013	5-	41418	24148
409	5-	02735	30257	5-	02944	25127	5-	02845	00015	5-	02936	17227

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each: by post 1½d. 2/6 per month: 8/6 per quarter. 25/- per year.

LONDON OBSERVATIONS

For the 24 hours ending morning of 28th July

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

Stations	Weather: Morning	Weather: Afternoon	Weather: Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	cm, bcy	b cm	bcy m gw	Kew 24 hours ended 7h. Time 07-8h. 7th Min. 0·1 rest of period
Croydon ...	cz, cbbcy	bcy	bcy m gfb	
Greenwich ...	bcy	bcy	cb cc/m,	
Camden Square ...	c	b	*	
Kensington ...	bc	bc	*	
Hampstead ...	bc	bc	bc	

Stations.	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 % (Yesterday)	Humidity: 9h % (Today)
Kew ...	79	61	56	–	–	7·5	*	*
Croydon ...	83	59	54	–	Tr	9·8	*	*
Greenwich ...	84	61	55	–	–	9·3	34	81
Westminster ...	81	62	58	–	*	*	56	93
Regents Park ...	81	61	58	–	–	*	46	81
Camden Square ...	83	61	57	–	–	*	*	81
Kensington ...	82	61	56	–	–	*	45	80
Hampstead ...	81	59	56	–	–	*	*	87

SECRET

Page 1

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Thursday 29th July 1943

No. 29834

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	21·1	−4	SW'N	2	c-bc	74	65	60	8	7	–	4	4-6	7-8	2500
	Croydon ...	21·7	−4	SW	4	c-bc	78	55	62	8	1	–	1	4-6	7-8	2300
	S. Farnborough	21·5	0	W	4	bc	78	55	61	8	1	–	2	4-6	4-6	3000
	Boscombe Down	21·1	0	SW'N	2	bc	75	65	60	8	1	–	5	4-6	4-6	2500
	Thorney Island	22·1	+2	S'W	3	c/f	69	85	64	7	5	–	–	9	9	220
	Lympne ...	21·6	+4	SSE	3	bc	77	55	62	8	2	–	1	2-3	4-6	3000
	Manston ...	21·2	+6	NE	2	bc	77	55	62	8	2	–	9	4-6	4-6	2500
2	Shoeburyness ...	21·2	−6	SW	2	z₀	81	55	63	6	1	–	1	0	2-3	4000
	Felixstowe ...	20·7	+4	S	4	bc	75	75	68	7	1	–	1	4-6	4-6	4000
	Gorleston ...	20·1	+4	SE	3	z₀	69	85	61	6	2	7	–	2-3	4-6	2500
	Mildenhall ...	20·3	−2	SW'S	3	c	80	45	59	8	1	–	6	1	9	4000
	Cranwell ...	19·6	−2	WSW	3	c	77	45	54	7	–	–	6	0	9	–
3	Birmingham ...	20·1	−2	SW	3	bc	75	55	58	8	1	–	9	2-3	4-6	4000
	Upper Heyford	20·3	0	SW'S	3	bc	78	55	58	9	1	4	2	Tr	4-6	4000
4	Ross-on-Wye	19·9	0	SW	4	bc	75	57	47	7	7	–	1	4-6	4-6	4000
5	Hartland Point	21·4	+10	W	3	c/d	63	97	62	7	5	–	–	9+	9+	800
	Bristol ...	21·6	+6	WSW	3	bc	74	65	61	8	1	3	2	1	4-6	4000
	Portland Bill ...	22·3	+8	SW	3	bc	63	85	60	7	5	–	–	4-6	4-6	4000
	Plymouth ...	22·5	+6	SW'S	4	c	66	85	61	8	5	–	–	9	9	1600
	The Lizard ...															
	Scilly (St. Mary's)	22·0	+10	SW'S	3	o/d	63	97	62	6	5	–	–	10	10	300
	Guernsey ...															
6	Pembroke ...	21·3	+12	WSW	3	c/f	61	97	60	7	5	–	–	9+	9+	2500
7	Holyhead (Valley)	19·5	+2	SSW	4	c-bc/c/d	63	85	60	8	5	7	–	4-6	7-8	2000
	Chester (Sealand)	18·8	−2	S	1	c-bc	79	55	62	8	1	–	1	7-8	7-8	3600
8	Manchester ...	19·7	−2	WSW	3	c-bc	73	65	57	8	1	3	6	2-3	7-8	3000
10	Spurn Head ...	20·1	0	ESE	3	z₀	65	65	54	6	7	3	–	4-6	7-8	2500
	Catterick (Sc.)...	19·0	−6	–	0	z₀	75	55	56	6	1	3	–	4-6	7-8	3000
	Tynemouth ...	20·2	0	SE	3	bc	65	75	60	7	–	3	2	0	4-6	–
11	St. Abbs Head	18·7	+6	SSW	1	c/r	60	85	56	7	5	2	–	7-8	10	2500
	Leuchars ...	18·9	+4	SSW	3	ir	63	75	54	6	8	2	–	4-6	10	3500
12	Renfrew (Abbots I.)	18·4	+4	W	1	o/d	62	92	60	6	5	–	–	9	10	1500
	Eskdalemuir ...	19·1	+4	SSW	3	rr	58	85	55	5	–	2	–	10	10	300
	Point of Ayre...	19·2	+8	SW	4	ir6	60	97	59	7	8	7	–	7-8	9+	1000
13A	Tiree	18·7	+10	NW	1	c	59	85	55	8	5	3	–	7-8	9	3000
13B	Stornoway ...	17·6	+10	S	3	c	58	85	55	8	8	6	–	9	9+	1800
15	Dalwhinnie ...	18·5	+2	SW	3	c	59	85	53	7	5	9	–	7-8	9+	1500
	Aberdeen ...	18·2	+4	S	3	c	66	65	52	8	4	9	–	4-6	9+	7000
	Wick ...	17·9	0	SSE	2	c	60	85	56	9	5	7	4	4-6	9	3000
16	Sumburgh ...	18·5	+8	SSE	3	c	57	85	51	9	5	–	–	9+	9+	5500
17	Blacksod Point	20·5	+12	NW'W	2	c-bc	59	75	51	8	8	–	–	7-8	7-8	2500
18	Malin Head ...	18·6	+16	N	3	DR	57	97	56	6	–	2	–	10	10	800
	Aldergrove ...	18·0	+26	–	0	c	65	85	59	9	5	–	–	2-3	10	1500
19	Birr Castle ...	19·4	+18	WSW	1	id	61	85	57	7	6	2	–	7-8	10	800
20	Valentia Obsy.	21·9	+10	NW'N	4	c-bc	62	65	50	9	8	–	–	7-8	7-8	4000
	Roches Point	20·2	+8	NNW	3	bc	65	75	57	9	1	–	5	4-6	4-6	4000

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°Temp. °F. (21)	°Humid. (22)	°Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	20·5	−2	WSW	3	b-bc	79	55	59	8	5	–	4	Tr	2-3	4000	0	*
	Croydon ...	21·0	−4	SSW	2	b	78	55	62	9	1	–	9	Tr	1	6000	0	*
	S. Farnborough	20·9	−4	SW	3	b	76	65	63	8	–	–	1	0	Tr	–	0	*
	Boscombe Down	20·7	−2	W	2	b-bc	77	56	57	9	1	–	4	2-3	2-3	4000	0	*
	Thorney Island	21·6	−6	WSW	3	b	71	65	59	9	1	–	4	Tr	1	4000	0	*
	Lympne ...	21·4	−2	SE	3	b	73	66	61	8	–	–	1	0	1	–	0	*
	Manston ...	20·4	−6	SW'S	3	b-bc	79	45	59	8	–	–	1	2-3	2-3	3500	0	*
2	Shoeburyness ...	20·2	−2	SW	2	b-bc	80	55	62	7	1	4	1	1	2-3	4000	0	*
	Felixstowe ...	20·2	−2	SSE	3	b	72	85	67	8	–	–	6	0	1	–	0	3
	Gorleston ...	19·1	−4	SE'S	3	bc	72	75	54	7	2	7	2	1	4-6	2500	0	3
	Mildenhall ...	19·4	−2	NSW	3	b-bc	82	45	56	8	1	4	2	1	2-3	4000	0	*
	Cranwell ...	19·0	0	NSW	3	c-bc	79	45	57	8	1	3	8	2-3	7-8	4000	0	*
3	Birmingham ...	19·9	−2	WSW	3	b-bc	76	45	54	8	1	4	–	2-3	2-3	4000	0	*
	Upper Heyford	20·3	0	W'S	3	bc	77	55	61	8	1	–	6	1	4-6	4000	0	*
4	Ross-on-Wye	20·6	+4	SW	3	b-bc	72	65	60	8	7	–	9	Tr	2-3	4000	0	*
5	Hartland Point	21·9	+4	W	3	c	62	97	61	7	5	–	–	9+	9+	800	0	3
	Bristol ...	21·7	−2	W	3	bc	71	75	63	8	1	4	4	1	4-6	4000	0	*
	Portland Bill ...	22·8	+16	SW	3	m/f	61	92	59	4	5	–	–	10	10	1500	0	4
	Plymouth ...	22·6	+2	SW	4	b-bc	64	92	62	8	5	7	1	2-3	2-3	2000	0	2
	The Lizard ...	22·7	0	WSW	3	c	64	92	62	8	5	–	–	9	9	2000	0	3
	Scilly (St. Mary's)	22·0	−2	SW	2	c	64	85	61	7	5	–	–	9+	9+	1000	1	3
	Guernsey ...																	
6	Pembroke ...	22·2	+4	WSW	2	c	61	92	59	8	5	–	–	9+	9+	2500	0	2
7	Holyhead (Valley)	20·4	+4	SSW	4	b-bc	64	75	52	8	7	3	4	1	2-3	2500	1	3
	Chester (Sealand)	19·9	+10	W	2	b-bc	72	55	55	8	2	–	–	2-3	2-3	2500	0	*
8	Manchester ...	19·5	+2	NNW	4	c-bc	72	65	58	8	2	6	–	7-8	7-8	3000	0	*
10	Spurn Head ...	19·4	−2	SE	3	z₀	65	85	59	6	7	3	2	4-6	7-8	2500	0	1
	Catterick (Sc.)...	19·0	0	WNW	1	c-bc	75	55	57	7	7	6	1	4-6	7-8	4000	0	*
	Tynemouth ...	20·2	0	E	2	bc	63	85	58	7	2	3	1	2-3	4-6	2300	0	1
11	St. Abbs Head	19·2	+4	SSE	2	c/pr	60	85	56	7	5	2	–	7-8	10	2000	1	2
	Leuchars ...	18·8	0	SSW	2	c-bc	65	85	58	7	8	7	–	4-6	7-8	2000	0	*
12	Renfrew (Abbots I.)	19·2	+2	SW'S	2	c	64	85	59	8	8	7	–	4-6	9+	1000	1	*
	Eskdalemuir ...	19·2	0	SSW	3	c/r	60	92	57	7	5	–	–	10	10	800	1	*
	Point of Ayre...	20·2	+6	N	2	bc	62	97	61	8	8	–	–	2-3	4-6	1800	0	1
13A	Tiree	18·2	+2	NSW	3	pr	63	85	48	9	8	4	–	4-6	4-6	3500	0	2
13B	Stornoway ...	18·5	+2	NSW	2	c	63	75	56	7	8	3	–	4-6	9	2500	0	–
15	Dalwhinnie ...	18·0	−4	SW	3	c-bc	64	75	57	7	–	9	–	0	7-8	–	0	2
	Aberdeen ...	18·7	+6	SE	1	c-bc	58	85	54	8	5	7	–	4-6	7-8	2500	0	*
	Wick ...	18·8	−2	N'S	1	c/pr	58	85	52	8	5	–	–	9+	10	5000	0	0
16	Sumburgh ...	21·7	+2	W	3	c	60	65	49	9	8	5	6	4-6	9	2500	1	3
17	Blacksod Point	20·2	+6	NNW	2	c	59	75	51	8	8	–	–	9	9	1500	1	2
18	Malin Head ...	20·0	+18	NW	2	c	61	75	55	8	5	–	1	8+	9+	2000	0	*
	Aldergrove ...	20·3	+6	WNW	1	c	65	75	58	8	8	1	–	7-8	9+	1500	0	*
19	Birr Castle ...	20·7	+2	NNW	3	bc	60	65	49	9	5	–	4	2-3	4-6	4000	1	2
20	Valentia Obsy.	22·7	+6	WSW	3	bc	65	75	58	9	5	–	–	4-6	4-6	2500	1	3
	Roches Point	20·3																

PAST 24 HOURS.

District	Stations (For heights see p. 4.)	Weather. 7h.–13h. 28th (39)	Weather. 13h.–18h. 28th (40)	Weather. 18h. 28th to 1h. 29th (41)	Weather. 1h.–7h. 29th (42)
1	London (Kew)	mocbc	bcy	bcybw	bbcmow
	Croydon ...	fczobcy	bcy	byb	bcmof
	S. Farnborough	cbcy	bcybybcyb	b	bwbcmo
	Boscombe Down	c	bcbcy	bcybcb	bbcc
	Thorney Island	cmwcwbccjfbfb	bbcom	FFbc	
	Lympne ...	bczobcz₀	bczobz	bbmo	bmwfgbmo
	Manston ...	bmobcc	bcy	bcybmo	bmobcmo
2	Shoeburyness ...	bczcy	bcy	bc	bcz₀
	Felixstowe ...	bmobc	bcbbcb	bcb	bcmbmo
	Gorleston ...	cbc	bcz₀bc	bcz₀bc	bcb
	Mildenhall ...	bcbcycy	bcy	bcybcb	bcbmo
	Cranwell ...	cbcy	cybcycy	bcyb	bbcmocmo
3	Birmingham ...	cbc	bcy	bc	bccz
	Upper Heyford	bcy	bcyv	bcyvbcb	bbcwcmo
4	Ross-on-Wye	bbc	bcy	bcc	bcase
5	Hartland Point	cidom	cocido	ymo	cdfdf
	Bristol ...	ccbc	bc	bcmow	bcmowcmo
	Portland Bill ...	cbc	cfef	fo	ff
	Plymouth ...	c	cbc	zmo	zadmo
	The Lizard ...		cbcc	c	dfif
	Scilly (St. Mary's)	ofidoo	ocdoc	idofe	cbcwc
	Guernsey ...				
6	Pembroke ...	cidoido	c	cidoc	cbc
7	Holyhead (Valley)	cidom	cbc	bcc	bf
	Chester (Sealand)	bcmocy	c,by	cbcb	bbcmo
8	Manchester ...	bbc	bccy	cbcmo	bwcbcmw
10	Spurn Head ...	bcmo	bcz₀	bmo	bcmo
	Catterick (Sc.)...	cybcy	cyzbcy	bcc	bcc
	Tynemouth ...	cmoc	bcdbc	cbc	bbc
11	St. Abbs Head	bccrcc	cmorocpr	cbc	c
	Leuchars ...	rocimo	cirocmoc	cbcmw	bcmcmc
12	Renfrew (Abbots I.)	cmoddrdmocmomoidc	cbcw	bcwcw	
	Eskdalemuir ...	cprorr	arroc		ccmopr
	Point of Ayre...	irpc	cbc	mff	ffiroc
13A	Tiree	cdoc	cbc	bccbc	bccprgc
13B	Stornoway ...	c	cbcy	cew	cbccbcw
15	Dalwhinnie ...	c	c	c	co
	Aberdeen ...	c	cproc	c	c
	Wick ...	cirairo	c	cbfgcfqcev	
16	Sumburgh ...	bccbcc	cjp	cirbcc	c
17	Blacksod Point	c	c	c	c
18	Malin Head ...	c	pr	c	c
	Aldergrove ...	bcc	c	c	c
19	Birr Castle ...	d	d	c	c
20	Valentia Obsy.	c	bc	bc	c
	Roches Point	bc	bc	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 29th July 1943

AS 13-15.

Districts	Forecast
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands	Light variable winds; mainly fine and warm; risk of local thunder this evening; local coast fog.
5 S.W. England South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light variable winds; fair, with marked clearances, specially tonight and tomorrow. A few fog patches on south coast and locally inland around dawn; warm.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light westerly winds; a few showers and appreciable bright intervals; warm.
16 Orkneys and Shetlands	
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light variable winds; fair, with marked clearances; especially at night; warm.

GENERAL INFERENCE

Pressure is high over the British Isles. Apart from a few showers in the North and a risk of local thunder in the extreme south east, weather will be fair and warm throughout the British Isles.

FURTHER OUTLOOK

Mainly fine and warm

Forecasts issued at 1030.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Thursday 29th July 1943.

10° 5°W. 0° 5°E. 10°

60° 55° 50°

Low

1014 1016 1018 1020 1022 1024

1021

Low

HIGH

HIGH

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Mb In.

1050 31 1040 1030 30 1020 1010 1000 29 990 980 970 28 960 950 27 940 930

5°E Scale 1:5,000,000.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Thursday 29th July

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 29th July 1943 — No. 29834

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	65	*	*	*	*	*	*	*	*	*
	Croydon ...	290	23.3	+6	SW	1	b	62	92	60	8	-	-	2	0	1	-
	S. Farnborough	226	23.2	+6	-	0	b	60	97	59	7	-	-	-	0	0	-
	Boscombe Down	417	23.3	+6	-	0	b	60	97	59	7	-	4	-	0	Tr	-
	Thorney Island	10	23.6	+4	W'N	1	m	68	97	63	4	5	-	-	10	10	<150
	Lympne ...	283	23.3	+6	WNW	2	Z_0	60	92	58	6	-	-	-	0	0	-
	Manston ...	154	22.2	+6	SW'W	2	Z_0	63	85	60	6	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	21.7	+4	WSW	3	Z_0	68	85	63	6	-	-	-	0	0	-
	Gorleston ...	5	20.4	+2	WNW	2	b-bc	67	75	59	7	5	-	-	2-3	2-3	1500
	Mildenhall ...	15	22.1	+12	WSW	2	b	62	85	58	8	-	-	1	0	1	-
	Cranwell ...	203	22.0	+8	WSW	1	b	62	85	57	8	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	22.5	+8	W	2	b-bc	61	92	58	7	-	4	2	0	2-3	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23.3	+2	NE	1	0	61	97	60	5	5	-	-	10	10	450
	Bristol ...	209	23.7	+6	WSW	1	Z_0	61	97	59	6	5	4	1	2-3	4-6	4000
	Portland Bill ...	32	23.1	+4	SSW	2	d	60	92	58	7	5	-	-	10	10	2500
	Plymouth ...	86	23.9	+2	WSW	2	Z_0	62	97	62	6	5	-	-	9+	9+	800
	The Lizard ...	240	23.7	+4	WSW	2	0	61	97	61	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	23.7	+10	N'W	2	c-bc	58	97	57	7	6	-	-	7-8	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	24.1	+2	W'S	2	c-bc	59	85	54	8	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	32	23.0	+10	WSW	1	c	59	92	57	7	5	-	-	9	9	600
	Chester (Sealand)	16	22.0	+2	-	0	b-bc	57	85	53	8	5	-	-	2-3	2-3	2500
8	Manchester ...	230	22.2	+6	SSW	2	b	56	92	54	7	5	-	-	1	1	2500
10	Spurn Head ...	29	21.5	+14	W	3	Z_0	63	85	59	6	-	-	-	0	0	-
	Catterick (Sc) ...	192	21.7	+4	-	0	c	60	85	58	7	5	3	-	7-8	9	3400
	Tynemouth ...	108	21.7	+4	NNW	2	c	59	92	56	7	8	-	-	9	9	2500
11	St. Abbs Head	280	19.9	0	W	2	b-bc	61	85	57	7	5	-	-	2-3	2-3	2500
	Leuchars ...	36	20.6	+6	-	0	Z_0	57	97	56	6	5	-	-	2-3	2-3	4000
12	Renfrew (Abbotsl.)	19	21.4	+8	WSW	2	bc	56	92	54	7	8	-	-	4-6	4-6	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	22.0	+8	-	0	oF	58	97	58	1	*	-	-	10	10	<150
13A	Tiree	44	22.5	+2	SW	1	bc	63	92	51	9	5	-	-	4-6	4-6	3500
13B	Stornoway ...	12	21.6	+6	SW	3	c	49	97	48	8	5	-	6	7-8	9+	3700
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	20.7	+12	NNW	2	bc	56	85	53	7	5	-	-	4-6	4-6	3500
	Wick ...	114	20.8	+8	WNW	1	c	52	97	51	7	5	7	-	4-6	10	3500
16	Sumburgh ..	19	19.9	+2	-	0	c-bc	51	92	52	7	5	-	6	7-8	7-8	1500
17	Blackpool Point	18	23.6	+4	-	0	c	55	85	50	8	8	-	-	10	10	2500
18	Malin Head ...	84	22.2	+4	W	1	c	56	75	48	8	5	-	-	10	10	1500
	Aldergrove ...	268	23.1	+6	-	0	bc	55	85	51	8	5	-	-	4-6	4-6	1000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23.7	-2	-	0	c	56	85	51	9	5	-	-	9+	9+	1000
	Roches Point	22	26.0	+2	N	4	bc	58	85	53	8	5	-	-	4-6	4-6	2500

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
24.2	+8	NW	1	Z_0	65	85	60	6	5	-	1	2-3	2-3	4000	0	*
24.3	+6	W	2	c	65	85	61	6	5	-	-	9+	9+	5000	0	*
24.2	+8	W'N	1	Z_0	61	92	59	6	7	8	1	2-3	2-3	3000	0	*
24.1	+6	-	0	bc	61	92	59	7	5	-	-	4-6	4-6	4000	0	*
23.9	+4	NW'W	1	bd	61	97	61	7	5	-	-	4-6	4-6	2500	0	*
23.6	+2	NNW	1	Z_0	67	85	61	6	-	-	1	0	Tr	-	0	*
22.8	+4	NW	1	Z_0	68	85	62	6	-	-	1	0	Tr	-	0	*
23.3	+8	NW'N	2	Z_0	68	75	59	6	-	4	-	0	2-3	-	0	*
22.9	+10	NW	2	b-bc	67	85	61	6	-	-	3	0	2-3	-	0	2
21.8	+16	NW	3	b-bc	68	85	59	7	-	4	-	0	2-3	-		1
23.3	+10	WNW	1	Z_0	64	75	57	6	-	4	1	0	2-3	-	0	*
23.1	+6	W	2	Z_0	62	75	56	6	5	-	-	7-8	7-8	3500	0	*
23.5	+8	-	0	Z_0	62	85	57	6	5	-	-	7-8	7-8	4000	0	*
23.8	+10	SW	1	Z_0	62	85	58	6	5	5	-	4-6	9	6000	0	*
23.6	+10	W'S	1	Z_0	60	92	58	6	5	-	-	9+	9+	3500	0	*
23.4	+8	WNW	1	df	60	97	60	1	-	-	-	10	10	<150	0	2
24.4	+10	WSW	1	c	64	85	59	8	5	-	-	10	10	1600	0	*
23.9	+6	E	2	of	61	92	59	3	5	-	-	10	10	1500	1	3
24.4	+8	SSW	1	dod	61	92	60	6	5	-	-	10	10	400	0	1
23.7	+4	-	0	df	61	97	61	5	5	-	-	9+	10	1500	0	2
24.2	+4	-	0	b	59	97	58	8	2	4	-	Tr	1	1200	1	2
24.1	+6	SW	1	c	59	97	58	8	5	-	-	9	9	2500	0	2
23.7	+2	-	0	mlf	58	97	57	4	5	-	-	10	10	200	0	1
23.1	+6	-	0	bc	63	75	55	6	7	-	9	2-3	4-6	3500	0	*
22.8	+2	S	2	Z_0	59	92	56	6	5	-	-	10	10	2000	0	*
22.4	+10	WNW	3	Z_0	61	85	57	6	7	3	-	4-6	4-6	2500	0	2
22.6	+8	-	0	c-bc	63	75	56	8	7	3	-	2-3	7-8	4000	0	*
24.6	+8	WNW	3	b-bc	61	85	57	7	-	4	1	0	2-3	-	0	1
20.7	+4	W	3	c-bc	60	75	53	8	1	4	-	4-6	7-8	3500	0	2
22.0	+10	SWW	2	c-bc	54	92	52	8	5	3	-	4-6	7-8	3500	0	*
22.8	+10	WSW	2	c	57	85	52	7	-	7	6	0	9+	-	1	*
22.0	+6	-	0	Z_0	57	97	56	6	5	-	-	10	10	1200	1	*
22.7	+2	NW	3	c	58	92	55	8	5	-	9	9+	9+	5000	1	2
22.9	+6	W	1	c/pr	55	85	52	9	8	-	-	9	9	5000	0	1
21.3	-4	S	2	bc	55	85	51	8	8	-	6	2-3	4-6	4000	0	1
23.0	+6	SSW	2	c	52	85	48	8	5	2	-	7-8	10	2500	0	*
22.1	+12	NNW	2	c	57	85	53	8	5	7	-	Tr	10	2500	0	1
21.9	+8	W	1	c	55	85	51	9	5	-	-	9+	9+	5000	0	*
20.4	+2	WSW	2	c-bc	55	92	53	8	5	-	8	2-3	7-8	5000	1	1
23.6	+2	-	0	c	57	75	50	8	8	-	-	10	10	2500	0	1
22.7	+4	W	1	c	56	75	49	8	5	-	-	9+	9+	1500	0	1
21.2	+8	-	0	bc	55	92	53	9	5	7	-	2-3	4-6	3000	1	*
23.6	+6	N	1	c	53	92	51	8	5	1	-	7-8	10	2500	0	*
23.6	-2	-	0	c	57	85	52	9	5	7	-	7-8	9+	4000	1	1
23.6	+6	N	3	bc	58	85	53	8	5	-	-	4-6	4-6	2500	1	3

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 28th Hrs. (38)
80	60	48	-	-	9.2
81	58	54	-	-	10.8
81	56	45	-	-	10.5
78	56	53	-	-	7.8
75	58	55	-	-	*
79	58	49	-	-	4.6
80	61	57	-	-	13.0
83	61	55	-	-	13.7
80	63	40	-	-	13.8
72			-		
85	56	51	-	-	4.4.1
81	55	54	-	-	9.9
79	60	53	-	-	10.5
81	57	50	-	-	*
76	57	50	-	-	12.6
63	60	60	Tr	1	2.1
76	59	51	-	-	11.3
65	59	*	-	-	*
66	61	57	-	-	
67	60	*	Tr	1	0.6
66	55	*	-	0.1	0.1
63	57	*	Tr	Tr	0.2
65	56	56	0.1	-	*
80	53	44	-	-	13.1
75	55	49	-	-	*
68	59	*	-	-	10.5
77	57	48	-	-	7.4
65	58	55	-	-	*
62	61	56	-	-	13.2
65	48	57	-	-	3.2
63	43	35	-	-	0.8
68	55	52	0.1	-	2.4
61	50	47	0.4	-	*
60	51	41	-	2	6.1
68	54	*	-	-	*
60	54		1	-	0.6
69	49	49	-	-	1.9
66	48	44	0.2	-	1.0
62	55	52	-	-	0.6
67	59		-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 28th July ..... 18h. G.M.T. — 01h. G.M.T. 29th July ..... 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109 77	02974	16226	52	64646	30168	57	22765	00066	57	02963	24356
115 52	01344	20327	57	02954	24227	87	02854	20126			
203			55	02946	16326				8-	02947	16327
206 5-	02858	10158	5-	02858	04168	57	02865	00027	53	02965	00027
210 57	02965	03228	83	10964	01127	5-	22758	00068	57	02943	26268
219 8-	02354	22325	13	01953	22313	5-	01854	20314	54	10855	22485
230 5-	02848	20263	8-	22948	26268	5-	02966	28126	55	02941	00027
245 57	02745	18228	55	02743	16326	54	05552	00012	57	02754	19126
260 6-	52438	00028	5-	21438	00058	5-	15238	00018	57	05444	18325
2785-	21838	17258	82	02833	17228	5-	02854	26324	53	02964	26326
279 52	05665	22368	87	02754	22326	5-	02745	22127	52	54536	30258
285 13	02855	20327				53	02755	00028	23	05633	30414
288 17	05665	20114	00	17490	01123	53	08153	18114	53	17661	00022
5785-	02858	26228	74	02866	28227	57	01864	00014	57	02864	00027
301 57	02863	18125	14	01853	25314	5-	02848	22328	57	05635	27227
321 03	05630	18326	86	01764	22325	04	05690	26123	53	08163	00025
298 14	05662	19113	54	05654	16314	50	05663	24103	54	01763	24106
282 10	17661	17214	5-	05666	00016	40	05662	21855	7-	02757	23217
310									--	01644	24214
614 10	05661	18224	24	01763	22325	04	05690	00001	53	05565	22127

13h. G.M.T. 28th July ..... 18h. G.M.T. — 01h. G.M.T. 29th July ..... 07h. G.M.T.

IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
388 53	21847	17557	56	01842	19425	5-	01752	00013	53	02735	18127
334 --	02754	20315							--	03655	20128
340 87	02854	22216	84	01964	24324	04	01890	00003	50	02865	20125
136 16	02765	22216	10	01861	04213	03	05690	24314	03	01790	30214
386 13	01764	20315	13	01764	20315				50	01754	16214
850 10	01861	20224	10	01862	22314	04	05690	20102	5-	05678	00015
368 5-	02855	26225	63	02854	28225	5-	05658	24118	5-	51634	28128
379 10	01861	22324	24	01862	23314	50	00761	28111			
390 10	05652	22213	00	01790	20313	00	05690	00010	00	05590	28101
382 18	02952	24214	14	01861	26314	07	21790	00013	50	21665	26145
438 00	01790	24232				5-	47053	28243	00	43290	40240
430 10	02862	19222	50	01841	20213	5-	57138	14148	50	41554	20144
409 5-	52628	24358	5-	02825	23327	5-	02847	14227	5-	21714	26258

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = S, 16 = S. 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 29th July .....
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	mocbc	bcy	bcycmw	Kew 24 hours ended 7h. Max. Time 0·1 5-7h. 29th Min. Time 0·1 rest of period
Croydon ...	fc$_2$bcy	bcy	bybmo	
Greenwich ...	fbcy	bcy	bcbcm$_2$	
Camden Square ...		b	*	
Kensington ...	fbc	cbc	*	
Hampstead ...				

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Today	Humidity 9h % Today
Kew ...	80	60	48	-	-	9.2	*	*
Croydon ...	81	58	54	-	-	10.8	*	*
Greenwich ...	84	60	47	-	-	10.3	39	60
Westminster ...	81	62	56	-	-	-	*	57
Regents Park ...	82	61	54	-	-		48	60
Camden Square ...	84	62	53	-	-	*	*	68
Kensington ...	83	61		-	-	*	51	65
Hampstead ...							*	

SECRET

Page 1

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Friday 30th July 1943

No. 29835

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	23·5	−4	NNW	1	cbc	77	55	57	8	8	–	–	7-8	7-8	4000
	Croydon ...	23·6	−4	SW	2	cbc	80	55	61	7	2	–	–	7-8	7-8	3000
	S. Farnborough	23·2	−4	WNW	2	bc	79	45	59	8	1	–	–	4-6	4-6	4000
	Boscombe Down	23·5	−2	NW	1	cbc	75	55	60	8	1	–	–	7-8	7-8	3000
	Thorney Island	23·6	−2	SSW	3	b	73	75	62	9	2	–	–	Tr	Tr	4000
	Lympne ...	23·7	0	S'E	2	b.bc	72	75	63	7	2	–	–	2-3	2-3	3000
	Manston ...	23·3	−2	ESE	3	b.bc	75	65	62	7	2	–	1	1	2-3	3000
2	Shoeburyness ...	23·3	−10	S	2	b.bc	75	65	63	7	1	–	2	1	2-3	2500
	Felixstowe ...	23·1	+2	SSE	4	bc	77	65	63	7	7	–	–	2-3	4-6	4000
	Harleston ...	22·7	+6	ENE	1	bc	67	75	59	7	2	4	–	4-6	4-6	2500
	Mildenhall ...	23·0	−2	NNW	3	cbc	79	45	57	8	1	–	–	7-8	7-8	3500
	Cranwell ...	22·7	0	W	3	bc	77	45	53	8	1	–	–	4-6	4-6	3500
3	Birmingham ...	23·4	0	WNW	3	bc	73	55	57	8	7	–	–	4-6	4-6	4000
	Upper Heyford	23·0	0	WSW	3	cbc	76	55	58	8	1	–	–	7-8	7-8	4000
4	Ross-on-Wye	22·9	−6	W'S	2	bc	75	55	57	7	1	–	–	4-6	4-6	3500
5	Hartland Point	24·4	+2	W	2	b.bc	64	85	60	9	2	4	–	2-3	2-3	2000
	Bristol ...	24·0	−4	W	2	bc	77	55	58	8	2	–	9	4-6	4-6	4000
	Portland Bill ...	24·4	+2	S	2	0	62	97	61	7	5	–	–	10	10	2500
	Plymouth ...	24·5	−4	SW	3	bc	66	85	61	9	5	–	–	4-6	4-6	2500
	The Lizard ...	24·9	0	SSE	2	fs	67	85	59	6	5	–	–	4-6	4-6	800
	Scilly (St. Mary's)	24·6	+2	NE'E	1	b.bc	70	75	60	8	8	–	–	2-3	2-3	1500
	Guernsey ...															
6	Pembroke ...	24·5	+2	SW'W	1	b.bc	63	75	55	9	1	4	–	2-3	2-3	3000
7	Holyhead (Valley)	24·3	+2	SW	2	bc	68	75	58	8	2	3	–	2-3	4-6	2500
	Chester (Sealand)	23·6	+2	NNW	2	bc	72	55	57	8	2	6	–	4-6	4-6	3500
8	Manchester ...	23·5	−6	WNW	2	bc	71	55	54	7	2	–	–	4-6	4-6	3000
10	Spurn Head ...	22·6	−2	E'S	2	cbc	71	65	59	7	8	2	–	7-8	7-8	2400
	Catterick (Sc.)...	22·2	+4	WSW	1	cbc	76	45	52	8	7	3	1	4-6	7-8	3500
	Tynemouth ...	23·1	+2	E	3	cbc	65	75	58	7	2	3	–	4-6	7-8	2500
11	St. Abbs Head	22·8	+10	NNE	1	c	61	85	55	7	2	6	–	4-6	9	3000
	Leuchars ...	23·3	0	NW	3	cbc	65	75	56	8	8	7	–	7-8	7-8	2000
12	Renfrew (Abbots I.)	23·6	+6	NNW	3	c	66	65	53	9	1	–	2	7-8	9	3000
	Eskdalemuir ...	22·7	+2	SW'S	3	bc	66	65	52	8	8	3	8	2-3	4-6	2800
	Point of Ayre...	24·5	+6	NNW	2	bc	66	75	56	8	2	4	2	Tr	4-6	2500
13A	Tiree	23·7	+4	W	2	bc	61	75	51	9	8	–	1	2-3	4-6	1500
13B	Stornoway ...	22·2	+6	SW	3	c	62	65	48	8	8	–	–	7-8	9	2200
15	Dalwhinnie ...	23·2	+2	SW	3	cbc	64	55	49	8	8	–	2	4-6	7-8	4000
	Aberdeen ...	22·9	+8	SSE	2	c	62	75	53	8	8	3	–	9	9+	4000
	Wick ...	22·0	−2	NNE	1	c	59	75	52	9	5	7	–	4-6	10	2500
16	Sumburgh ...	21·7	+10	W'S	3	b.bc	58	75	51	8	7	4	–	2-3	2-3	3500
17	Blacksod Point	25·9	−2	W	1	c	61	65	49	8	8	–	–	10	10	2500
18	Malin Head ...	23·8	+6	NW'N	1	c	59	65	47	8	5	7	–	7-8	9+	1500
	Aldergrove ...	24·2	+4	WNW	1	c	66	55	50	9	7	7	–	4-6	9	2500
19	Birr Castle ...	23·2	−4	N	1	c	70	55	54	8	5	–	8	7-8	9	2500
20	Valentia Obsy.	23·1	−6	S'E	3	c	64	75	56	9	5	7	–	4-6	10	2500
	Roches Point	24·0	+2	SSE	2	bc	65	85	61	8	1	3	–	1	4-6	4000

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	20·0	−4	W	2	bc	81	45	56	8	1	–	1	2-3	4-6	4000	0	*
	Croydon ...	22·2	−8	S	2	bc	81	45	60	8	4	–	–	4-6	4-6	3500	0	*
	S. Farnborough	22·2	−2	WNW	2	b	80	45	58	8	1	–	–	1	1	4500	0	*
	Boscombe Down	22·3	−6	NW'W	1	b	78	45	55	9	1	–	–	Tr	Tr	4000	0	*
	Thorney Island	22·5	−2	SSW	2	b	70	75	62	9	1	–	–	Tr	Tr	4000	0	*
	Lympne ...	22·3	−4	S'W	2	b	68	85	62	8	–	–	–	0	0	—	0	1
	Manston ...	22·3	−6	SE'S	3	b	75	55	59	9	–	–	–	0	0	—	0	*
2	Shoeburyness ...	22·0	−6	SE	3	b	76	75	65	8	1	–	–	1	1	2500	0	
	Felixstowe ...	22·7	+2	E	3	b	70	92	67	7	6	–	–	1	1	4000	0	2
	Harleston ...	23·0	0	SE'E	1	b	68	75	61	7	–	–	–	0	0	—	0	2
	Mildenhall ...	21·8	−6	N'W	1	bc	80	45	57	8	1	4	1	4-6	4-6	4000	0	*
	Cranwell ...	22·0	−2	NNW	1	b	77	45	54	7	4	–	–	Tr	Tr	5700	0	*
3	Birmingham ...	22·2	−4	SW	2	b-bc	78	45	57	8	7	–	–	2-3	2-3	5700	0	*
	Upper Heyford	22·0	0	NNW	2	b	79	45	56	8	4	–	–	1	1	4600	0	*
4	Ross-on-Wye	22·0	−4	W'S	3	b	76	55	58	8	1	–	–	1	1	4000	0	*
5	Hartland Point	23·5	−2	NNE	2	b-bc	61	85	57	9	2	4	1	1	2-3	2500	0	2
	Bristol ...	23·1	−4	WNW	2	b	76	55	57	8	–	–	–	0	0	—	0	*
	Portland Bill ...	23·2	−6	SW	2	c-bc	63	92	61	7	5	–	–	7-8	7-8	2500	1	3
	Plymouth ...	23·6	−2	SW	3	b	66	85	62	9	4	–	–	1	1	2500	0	1
	The Lizard ...	23·2	−8	W	2	bc	67	85	62	8	5	4	–	2-3	4-6	2000	0	2
	Scilly (St. Mary's)	23·3	−10	NE'E	2	b-bc	67	75	58	8	5	–	4	2-3	2-3	1500	0	1
	Guernsey ...																	
6	Pembroke ...	23·9	−6	W'N	1	bc	63	85	57	9	2	4	1	1	4-6	3000	0	2
7	Holyhead (Valley)	23·9	−2	SSW	2	bc	67	65	56	8	8	3	1	2-3	4-6	3000	0	1
	Chester (Sealand)	23·2	+2	N	1	bc	68	55	51	8	1	3	–	1	4-6	3500	0	*
8	Manchester ...	22·8	−2	NNW	3	b	70	55	53	8	4	3	–	Tr	1	3000	0	*
10	Spurn Head ...	22·8	0	SE	2	zo	64	85	58	6	–	–	–	0	0	—	0	1
	Catterick (Sc.)...	22·2	+2	NNE	2	bc	69	75	58	8	2	–	–	4-6	4-6	3000	0	*
	Tynemouth ...	24·1	+6	NE	2	zo	61	85	57	6	8	–	–	9	9	2200	0	1
11	St. Abbs Head	22·2	−6	SE	3	c	60	85	53	8	5	4	–	4-6	9+	2500	0	2
	Leuchars ...	21·8	0	ESE	2	c	64	75	57	8	4	3	2	2-3	9+	3500	0	*
12	Renfrew (Abbots I.)	23·2	−4	W	2	c	63	65	49	9	1	7	7	1	10	2500	0	*
	Eskdalemuir ...	22·4	0	SSW	3	c-bc	63	65	53	8	5	2	–	7-8	7-8	3500	0	*
	Point of Ayre...	24·2	−2	–	0	c	62	75	52	8	1	3	8	Tr	9	3000	0	*
13A	Tiree	23·8	0	WSW	1	c	55	75	51	9	2	5	9	2-3	9	2000	0	1
13B	Stornoway ...	22·9	+6	WSW	3	c	61	65	49	8	8	6	9	7-8	9	1800	0	2
15	Dalwhinnie ...		+2	NW	3	c	59	65	47	8	8	3	–	7-8	9+	2500	0	-
	Aberdeen ...	23·4	+2	ENE	2	c	59	75	50	8	5	–	–	10	10	4000	0	1
	Wick ...	23·0	+2	ENE	1	c-bc	59	45	42	9	8	7	–	4-6	7-8	3500	0	*
16	Sumburgh ...	22·1	+2	WSW	3	b	58	85	54	9	1	4	–	1	1	1500	0	*
17	Blacksod Point	23·0	−6	NNE	2	rr	57	92	55	7	6	2	–	4-6	10	2500	1	2
18	Malin Head ...	23·1	−4	E	1	c	58	75	53	8	5	–	–	9	9	1500	0	1
	Aldergrove ...	23·3	−6	WNW	1	c	64	75	55	9	5	7	2	7-8	9+	2500	0	*
19	Birr Castle ...	22·1	−8	N	1	c	69	65	58	8	5	2	–	7-8	10	2500	0	*
20	Valentia Obsy.	22·5	−2	S'E	4	zr	62	92	60	8	5	–	–	10	10	800	1	3
	Roches Point	22·8	−10	S	3	c-bc/pr	63	85	59	9	3	3	5	1	7-8	2500	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 29th (39)	13h.–18h. 29th (40)	18h. 29th to 1h. 30th (41)	1h.–7h. 30th (42)
mo bccy	cbcy	bcybw	bbcmow
bczobcy	bcy	bbmo	bmobcmo
bcmobcbcybcby	b	bbcwmo	bbcbcmow
bcccy bcy	bcybby	byb	bbcbcmow
bcb	br	b	bccbcfgw
bzo	b	bbfmow	bmowbc
bmozobbc	b	bf	bfbmo
bc	bc	bc	bczobc
bbcbzo	bcb	bbcmobmo	bbmobc
cbc	bcb	bczow	bcwc
bycy	bcy	bcyb	bc
bycybcy	bcy	bybzobmo	bmcmbmo
cbc	bcb	b	bm
	bcy	byb	bbcmocmo
ccbc	bcy	bbcb	bmow
dfcccb	bc	bcb	bbc
ccbc	bcyb	bcbmwbcmwbcmocbcfgw	
o	ifc	c	bcc
cvbc	b	bbmow	bmjfbcm
	l	l		2500	0	1	bcw	bcw
oifbc	bc	bcw	bcw
bbc	bcbbc	bcbw	bbcc
cbc	bc	bcw	bcmow
c	bc	bcbf	cfbcfg
bccbc	bcy	bcymob	bbcmo
cmobczo	bcby	bybcbmo	bmofgw
c	bcmo	bcb	bcmo
c	bcy	bcbcm	bcmjf
bcc	cmo	cmo	cbccmo
cmoc	cmoc	c	cmo
c	cbcc	cmo	cmoifoc
cwc	c ⊕	ccifoc	cfoccmo
cmocbc	bcc	cpfc	cpfo
c	cbcc	bcc	cb
cpfocbc	cpfcbccbcc		ccdodomo
cjpcpfoc	cjpc	cbc	c
oc	c		C
c	c	c	ccifoc
cv	cb	c	c
cbc		bcc	cbcc
	r	r	r
c	c	r	r
cwc	cyc	ccidoc	cidoifoc
c	c		bc
c	pr	r	bc
bc	pr	pr	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday, 30th July 1943.

Districts	Forecast
1 S.E. England 2 E. England .. 3 E. Midlands ... 4 W. Midlands	Light southeast wind; fine; local coast fog; hot.
5 S.W. England	Light or moderate east wind; fine at first; local thunderstorms later, local coast fog; very warm.
6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light southeast wind; fine; local coast fog; very warm.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland	Light or moderate southeast wind; local rain; warm.
14 Mid Scotland 15 N.E. Scotland	Light variable or southeast wind; fair and warm
16 Orkneys and Shetlands	As W-15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light or moderate east or southeast wind; variable cloud and local thundery rain; warm.

GENERAL INFERENCE

An anticyclone is centred over the North Sea and a depression southwest of the British Isles is spreading northeast; weather will be fine over most of Great Britain but local thunderstorms are expected to develop in the Southwest later.

FURTHER OUTLOOK

Thundery conditions in the South and West of the British Isles spreading north

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday, 30th July, 1943 1943.

LOW

HIGH

LOW

1018 1020 1022 1024

10° 5°W. 0° 5°E 10°

60° 55° 50°

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud

Code figure (one figure) or hundreds of feet (two figures)

Scale 1: 5,000,000

Mb

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Friday 30th July

1943.

Clarke's Projection Scale. 1 : 4 x 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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 30th July 1943 — No. 29835

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	63	*	*	*	*	*	*	*	*	*
	Croydon ...	290	22·9	-4	–	0	b	63	85	59	6	–	–	–	0	6m	–
	S. Farnborough	226	22·8	-4	WNW	1	b	62	92	61	8	–	–	–	0	0	–
	Bostombe Down	417	22·9	-2	–	0	b	60	85	54	8	–	–	–	0	0	–
	Thorney Island	10	22·8	-8	–	0	b	60	97	59	6	–	–	4	0	1	–
	Lympne ...	283	23·1	-4	ESE	1	2o	60	92	57	6	–	–	–	0	0	–
	Manston ...	154	23·0	0	SE	2	bF+	60	97	60	1	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	22·9	-2	ENE	3	2o	64	85	58	6	–	–	–	0	0	–
	Gorleston ...	5	23·5	-4	–	0	b-bc	64	85	60	7	5	–	–	2-3	2-3	1500
	Mildenhall ...	15	22·8	-2	ESE	2	b	60	85	55	7	–	–	–	0	0	–
	Cranwell ...	203	23·1	-2	–	0	2o	59	92	57	6	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	22·5	-4	N	2	b-bc	60	85	56	7	–	–	1	0	2-3	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	22·3	-6	NE	2	b	59	92	57	8	1	–	–	1	1	2500
	Bristol	209	23·5	0	–	0	2o	56	92	54	6	–	–	1	0	2-3	–
	Portland Bill ...	32	22·3	-4	SW	2	bc	60	92	58	7	5	–	–	4-6	4-6	2500
	Plymouth ...	86	22·4	-10	E	1	m	59	97	58	4	–	4	2	0	2-3	–
	The Lizard ...	240	21·8	-11	NNW	2	b-bc	59	97	59	7	4	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	163	21·7	-10	ENE	2	b	59	97	58	8	5	4	–	Tr	1	1500
	Guernsey ...	175															
6	Pembroke ...	142	23·0	-6	E'N	1	b-bc	55	97	54	8	1	–	–	2-3	2-3	3000
7	Holyhead (Valley)	32	23·6	-6	NNE	1	bF+	52	97	52	1	–	–	–	0	0	–
	Chester (Sealand)	16	23·8	-2	–	0	2o	52	92	50	6	–	–	–	0	0	–
8	Manchester ...	230	23·7	+2	–	0	2o	53	85	50	5	–	–	–	0	0	–
10	Spurn Head ...	29	23·4	-6	S	2	b-bc	60	97	59	6	7	–	–	2-3	2-3	1500
	Catterick (Sc)...	192	23·6	-2	–	0	2o	55	92	53	6	–	3	–	0	4-6	–
	Tynemouth ...	108	24·6	0	NNE	1	2o	59	75	51	6	8	–	–	7-8	7-8	2500
11	St. Abbs Head	280	22·8	-2	WNW	1	c	58	75	48	7	5	–	–	9+	9+	2500
	Leuchars ...	36	23·1	-2	–	0	2o	57	92	55	6	5	3	–	4-6	9+	400
12	Renfrew (Abbotsl.)	19	23·2	-4	–	0	5/c	55	85	51	7	5	2	–	7-8	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	23·4	-4	S	1	c	57	85	53	8	5	–	–	3	9	3000
13A	Tiree	44	23·4	-4	–	0	c	55	92	52	9	5	–	–	9	9	2500
13B	Stornoway ...	12	23·0	-6	SW	2	bc	50	97	49	8	5	3	1	4-6	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	23·5	-8	–	0	c	55	92	52	8	5	–	–	10	10	4500
	Wick ...	114	23·2	-6	–	0	c	54	92	52	8	5	7	–	4-6	10	4000
16	Sumburgh ..	19	22·5	-2	SW	2	c	55	92	52	8	6	4	1	7-8	9	3000
17	Blacknod Point	18	21·5	-10	–	0	1c	58	97	57	7	6	2	–	4-6	10	1500
18	Malin Head ...	84	22·1	-10	NNE	1	1do	55	85	50	7	5	–	–	10	10	1500
	Aldergrove ...	268	23·0	-10	SSE	1	c	57	85	51	7	5	–	–	10	10	3400
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	21·6	-6	SSE	2	c	61	92	59	7	5	–	–	10	10	800
	Roches Point	22	22·2	-6	–	0	b	58	92	56	8	8	–	–	1	1	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	22·6	+6	S	4	2o	65	85	59	6	–	–	6	0	4-6	–	0	*
	Croydon ...	23·4	+2	–	0	2o	66	75	59	6	–	–	2	0	4-6	–	0	*
	S. Farnborough	22·9	+6	–	0	2o	62	85	57	6	–	–	4	0	2-3	–	0	*
	Bostombe Down	22·7	+2	–	0	2o	63	75	55	6	–	–	4	0	4-6	–	0	*
	Thorney Island	22·0	-2	–	0	fg	65	85	62	7	–	–	2	0	7-8	–	0	*
	Lympne ...	22·9	0	ESE	2	2o	67	75	61	6	–	–	1	0	Tr	–	0	2
	Manston ...	22·9	+2	SE'S	3	2o	65	85	61	6	–	–	5	0	Tr	–	0	*
2	Shoeburyness ...	22·7	+4	–	0	b	68	75	61	7	–	–	1	0	1	–	0	*
	Felixstowe ...	22·3	+2	E	2	cbc	66	92	63	7	5	7	–	2-3	7-8	4000	0	2
	Gorleston ...	23·5	+4	ENE	1	c	63	92	62	7	5	–	–	9+	9+	1400	0	1
	Mildenhall ...	22·8	+2	ESE	2	bc	63	85	58	7	–	–	2	0	4-6	–	0	*
	Cranwell ...	23·1	+2	E	1	2o	63	85	58	6	–	–	4	0	1	–	0	*
3	Birmingham ...	22·9	+10	E	1	m	64	75	56	4	–	–	–	0	0	–	0	*
	Upper Heyford	22·6	+2	SE	1	2o	64	85	58	5	–	–	2	0	7-8	–	0	*
4	Ross-on-Wye	22·8	0	SW	1	2o	59	85	52	6	–	–	1	0	1	–	0	*
5	Hartland Point	20·8	-4	E	2	bc	63	85	59	8	1	4	5	1	4-6	3500	0	3
	Bristol	23·2	+2	–	0	2o	59	92	58	5	–	–	2	0	4-6	–	0	*
	Portland Bill ...	21·8	+2	NE	3	cbc	63	85	60	7	2	4	–	4-6	7-8	4000	1	4
	Plymouth ...	21·4	-2	NNE	1	2o	61	92	59	6	–	–	6	0	3	–	0	1
	The Lizard ...	20·3	-4	ENE	3	bc	63	97	63	8	7	9	–	4-6	4-6	3500	0	3
	Scilly (St. Mary's)	19·7	-10	E'N	3	cbc	61	92	59	8	5	5	–	7-8	7-8	1200	0	3
	Guernsey ...																	
6	Pembroke ...	22·0	0	E	3	b-bc	59	97	58	6	1	6	1	Tr	2-3	3000	0	2
7	Holyhead (Valley)	22·6	-2	–	0	fs	58	92	56	5	5	4	–	Tr	2-3	2000	1	1
	Chester (Sealand)	22·9	+2	–	0	cbc	57	85	52	5	–	3	–	0	2-3	–	0	*
8	Manchester ...	22·8	-2	–	0	m	57	85	54	4	–	3	–	0	Tr	–	0	*
10	Spurn Head ...	23·4	0	SE	3	2o	63	85	58	6	7	4	–	2-3	4-6	2500	0	1
	Catterick (Sc)...	23·8	+4	S	1	bc	56	85	52	7	–	3	1	0	4-6	–	0	*
	Tynemouth ...	24·0	+8	W	2	2o	57	85	51	6	5	3	–	4-6	7-8	2800	0	1
11	St. Abbs Head	22·9	+8	–	0	c	60	75	52	7	5	6	–	7-8	9+	3000	0	1
	Leuchars ...	22·9	+4	NSW	2	c	56	92	54	7	5	7	–	7-8	9	2500	0	*
12	Renfrew (Abbotsl.)	22·7	+2	–	0	2o	57	92	54	6	5	7	–	Tr	10	2500	1	*
	Eskdalemuir ...	23·0	+2	–	0	cbc/pr	53	92	51	8	5	3	–	7-8	7-8	1800	1	*
	Point of Ayre...	22·6	0	SSE	3	b-bc	62	75	55	8	–	4	–	0	2-3	–	0	2
13A	Tiree	22·5	-2	SSE	2	dd	54	97	54	6	–	2	–	10	10	300	1	1
13B	Stornoway ...	22·1	-4	–	0	c	55	85	51	8	8	–	–	9+	9+	2000	0	1
15	Dalwhinnie ...	23·0	-2	NNE	1	c	54	85	50	8	5	3	–	7-8	9+	1500	0	*
	Aberdeen † ...	22·9	-4	SSE	2	5/r	57	97	56	6	5	3	–	7-8	9+	800	1	1
	Wick ...	22·4	-6	W	1	c	55	92	53	9	5	7	–	4-6	9+	4000	0	*
16	Sumburgh ..	22·4	+4	SW	3	c	55	92	53	8	5	7	–	9+	9+	3000	1	2
17	Blacknod Point	19·7	-6	–	0	c	61	97	60	8	6	–	–	10	10	1500	1	1
18	Malin Head ...	20·7	-2	S	1	1c	57	97	56	8	6	–	–	10	10	1500	0	1
	Aldergrove ...	22·1	-2	–	0	c	61	85	57	8	5	7	–	7-8	9+	1800	1	*
19	Birr Castle ...	20·8	-10	ESE	1	bc	59	85	54	8	–	–	6	0	4-6	–	0	*
20	Valentia Obsy.	19·0	-10	E'N	3	cbc	63	85	58	8	6	3	5	1	7-8	2500	1	1
	Roches Point	20·4	-6	E	3	bc	61	92	59	8	5	–	5	4-6	4-6	1500	1	2

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F. (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 29th Hrs. (38)
1	London (Kew)	82	59	47	–	Tr	10·4
	Croydon ...	82	57	53	–	–	10·3
	S. Farnborough	83	54	44	–	–	13·4
	Bostombe Down	79	54	51	–	–	12·2
	Thorney Island	76	54	51	–	–	*
	Lympne ...	73	52	51	–	–	14·1
	Manston ...	77	60	59	–	–	13·4
2	Shoeburyness ...	77	62	56	–	–	13·2
	Felixstowe ...	81	63	60	–	–	8·6
	Gorleston ...	73	62	55	–	–	5·7
	Mildenhall ...	83	53	51	–	Tr	12·9
	Cranwell ...	79	58	45		–	6·5
3	Birmingham ...	79	57	43	–	–	11·5
	Upper Heyford	80	56	50	–	–	*
4	Ross-on-Wye	72	53	45	–	–	9·3
5	Hartland Point	66	59	55	0·5	–	7·9
	Bristol	78	51	42	–	–	9·6
	Portland Bill ...	64	58	*	–	–	*
	Plymouth ...	67	55	46	–	–	8·6
	The Lizard ...	65	59	*	–	–	9·1
	Scilly (St. Mary's)	72	58	*	–	–	11·6
	Guernsey ...						
6	Pembroke ...	66	54	*	–	–	10·5
7	Holyhead (Valley)	71	50	43	–	–	*
	Chester (Sealand)	73	51	42	–	–	12·6
8	Manchester ...	74	49	45	–	–	*
10	Spurn Head ...	73	58	*	–	–	10·3
	Catterick (Sc)...	77	47	43	–	–	8·7
	Tynemouth ...	67	54	51	–	–	*
11	St. Abbs Head	63	55	*	–	–	*
	Leuchars ...	71	55	54	–	Tr	8·2
12	Renfrew (Abbotsl.)	67	53	51	–	Tr	6·5
	Eskdalemuir ...	68	47	41	–	0·2	6·1
	Point of Ayre...	67	54	*	–	–	8·5
13A	Tiree	63	53	52	–	0·5	4·6
13B	Stornoway ...	61	49	42	Tr	–	8·7
15	Dalwhinnie ...	65	49	45	–	–	7·3
	Aberdeen † ...	67	55	52	–	Tr	1·4
	Wick ...	63	52	50	–	–	*
16	Sumburgh ..	66	54	49	–	–	10·1
17	Blacknod Point	67	56	*	1	6	*
18	Malin Head ...	61	54		–	2	0·4
	Aldergrove ...	67	57	55	–	–	7·7
19	Birr Castle ...	71	54	48	–	–	3·1
20	Valentia Obsy.	65	58	53	0·5	0·3	0·1
	Roches Point	66	57		Tr	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 29th July ... 18h. G.M.T. — 01h. G.M.T. 30th July ... 07h. G.M.T.

III	C_L	C_M	wwVhN$_h$	DDFWN	C_L	C_M	wwVhN$_h$	DDFWN	C_L	C_M	wwVhN$_h$	DDFWN
109	8	7	02955	23326	5	-	02975	25225	8	2	02756	20228
115					5	2	02944	29227	5	2	02844	20387
203									5	-	03968	16328
206	7	-	02967	20227	7	3	02964	00026	5	7	01804	00027
210	1	6	02964	28325	5	3	02864	04274	5	3	02864	00028
219	2	3	01954	19415	8	3	02853	20427	5	7	02854	00024
280	8	7	02956	20327	8	7	02964	18328	5	1	02964	00068
245	2	3	02850	14165	2	4	01952	08325	5	-	02758	32228
260	1	0	01764	20414	0	3	05690	22315	5	7	05554	20165
278	1	3	02964	32214	1	7	02961	31227	5	7	02864	15269
279	2	7	02865	20266	4	7	02962	22415	5	7	01961	20113
285									1	3	02862	28316
288	2	3	17655	02125	2	0	17652	02312	0	0	17590	00000
575	1	7	02964	00026	5	7	51851	00028	5	-	51735	00028
301	2	3	01862	26314	0	3	01990	29313	0	1	05690	10101
321	1	0	06654	28224						0	41490	00040
209	5	3	05653	32314						5	05553	22113
282	1	4	02864	20315	2	3	23314	23071		0	32590	28624
316	-	-	01635	24215								
614	4	5	02764	23215	0	0	00700	03610	0	0	05590	32100

13h. G.M.T. 29th July ... 18h. G.M.T. — 01h. G.M.T. 30th July ... 07h. G.M.T.

III	C_L	C_M	wwVhN$_h$	DDFWN	C_L	C_M	wwVhN$_h$	DDFWN	C_L	C_M	wwVhN$_h$	DDFWN
388	3		01963	14324	1	6	01962	26313	0	0	00890	00000
334	-		01852	24213	-	-	01952	24203				
340	5	8	02964	24124	1	0	01961	32211				
136	1	6	01864	27414	6	6	01790	04312	0	0	05690	03210
336	0		01753	20313	1	0	01751	24311				
350	1	6	02865	20115	1	0	01864	00014	0	0	00790	00000
368	1	0	01853	22313	4	0	01951	26201	0	0	00690	00000
379	8	-	00853	20125	5	0	01861	24011	5	0	01861	02101
390	2	-	05655	20215	2	0	01865	24115	0	0	05590	00010
382	2	0	02865	23225	4	0	01861	24111	0	0	01890	00001
438	2	0	04752	24242	0	0	04690	24340	0	0	00790	00010
430					0	0	00890	26300	0	0	05690	00000
409	4	0	01952	26212	4	4	01861	31202	0	0	01990	02101

C_L	C_M	wwVhN$_h$	DDFWN
0	0	00890	00000
0	0	05690	03210
0	0	00790	00000
0	0	00690	00000
5	0	01861	02101
0	0	05590	00010
0	0	01890	00001
0	0	00790	00010
0	0	05690	00000
0	0	01990	02101

C_L	C_M	wwVhN$_h$	DDFWN
4		01850	16113
-	-	01762	00003
0	0	05690	00010
0	0	01890	14221
5	0	05553	28213
0	0	05590	04115
0	0	05690	08115
7		43290	00044
0	0	05690	00026
5	4	05590	04115
0	0	02790	11325

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 30th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew ...	mobccy	cbcy	bcmow	Kew 24 hours ended 7h. Max. Time 6-7h 30th
Croydon ...	bc2obcy	bcy	bmobcmo	
Greenwich ...	bcy	bcy	bcby	
Camden Square	bc	bc	*	
Kensington ...	bc	bc	*	Min. Time 9-24h 29th
Hampstead ...	bc	bc	bc	<0·1

Stations.	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 %	Humidity 9h %
	Yesterday							To-day
Kew ...	82	59	47	-	Tr	10·4	*	*
Croydon ...	82	57	53	–	–	10·3	*	*
Greenwich ...	85	59	47	–	–	11·0	46	49
Westminster ...	82	61	56		–		60	67
Regents Park ...	83	60	52	–	–		49	47
Camden Square ...	85	61	53	–	–	*	*	65
Kensington ...	84	60	*	–	–		49	55
Hampstead ...	83	61	54	–	–		*	65

SECRET

Page 1

THE DAILY WEATHER REPORT
BRITISH SECTION OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 31st July 1943

No. 29836.

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)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	21·0	−8	E'N	2	c-bc	83	35	53	8	1	–	6	Tr	7-8	4000
	Croydon ...	21·7	−10	E	2	c-bc	85	35	55	8	1	–	4	Tr	7-8	3500
	S. Farnborough	20·7	−14	ESE	1	bc	85	45	62	8	1	–	4	1	4-6	3500
	Boscombe Down	20·8	−12	SW	1	c-bc	83	45	59	7	1	–	6	Tr	7-8	4000
	Thorney Island	21·6	−2	SSE	3	bc	73	75	63	5	2	–	6	Tr	4-6	4000
	Lympne ...	22·0	−10	SE'E	2	bc	78	55	55	8	–	–	4	0	4-6	–
	Manston ...	22·6	−4	ENE	3	b-bc	75	55	59	7	–	–	2	0	2-3	–
2	Shoeburyness ...	21·2	−6	E'N	3	bc	72	75	63	7	–	–	6	0	4-6	–
	Felixstowe ...	23·0	−2	E	3	bc	71	85	65	8	–	–	2	0	4-6	–
	Gorleston ...	22·8	−4	SE	3	b-bc	66	85	60	7	–	4	–	0	2-3	–
	Mildenhall ...	21·3	−10	SSE	1	c-bc	85	45	60	8	1	–	2	4-6	7-8	4000
	Cranwell ...	20·9	−18	SSE	2	b	85	25	48	9	1	–	1	Tr	Tr	4000
3	Birmingham ...	20·7	−8	S	3	bc	83	35	53	8	–	–	2	0	4-6	–
	Upper Heyford	16·8	−14	S	2	bc	84	45	47	8	–	–	2	0	4-6	–
4	Ross-on-Wye	20·6	−10	SW	2	bc	80	45	56	8	–	–	4	0	4-6	–
5	Hartland Point	18·7	−14	E	2	b-bc	81	55	63	8	1	6	5	Tr	2-3	3000
	Bristol ...	20·6	−12	SSE	2	b-bc	82	55	62	8	–	–	2	0	2-3	–
	Portland Bill ...	20·8	−2	NE	3	c	67	85	62	7	2	4	–	7-8	9	4000
	Plymouth ...	19·4	−8	ESE	3	bc	78	65	63	8	–	–	2	0	4-6	–
	The Lizard ...	18·5	−10	NE	5	bc	69	85	62	8	7	3	–	2-3	4-6	3500
	Scilly (St. Mary's)	17·7	−14	E	4	bc	72	75	62	7	5	–	9	2-3	4-6	1500
	Guernsey ...															
6	Pembroke ...	19·6	−12	SE	3	b-bc	70	75	63	7	1	–	–	2-3	2-3	2500
7	Holyhead (Valley)	20·5	−14	SW	2	b-bc	76	45	63	8	–	–	2	0	2-3	–
	Chester (Sealand)	20·9	−8	SSW	2	bc	82	55	62	7	–	–	6	0	4-6	–
8	Manchester ...	20·4	−16	SSW	3	b	81	45	56	7	–	–	–	0	0	–
10	Spurn Head ...	22·4	−10	SE'E	4	b-bc	66	75	59	7	7	3	1	2-3	2-3	2500
	Catterick (Sc) ...	21·4	−14	S	1	bc	79	45	57	8	1	–	5	2-3	4-6	3500
	Tynemouth ...	23·2	−8	SE	3	2_0	66	75	56	6	–	3	2	0	4-6	–
11	St. Abbs Head	21·7	−10	ESE	3	c-bc	66	75	57	7	5	4	–	4-6	7-8	4000
	Leuchars ...	21·9	−2	E	1	c-bc	66	65	55	7	5	7	–	4-6	7-8	2500
12	Renfrew (Abbotsl.)	21·1	−10	–	0	2_0	70	65	56	6	5	7	–	2-3	9+	5000
	Eskdalemuir ...	20·8	−6	SSW	1	b-bc	69	65	57	8	1	4	4	2-3	2-3	2900
	Point of Ayre ...	21·3	−10	SE	3	c-bc	69	55	53	8	–	–	4	0	7-8	–
13A	Tiree	21·2	−6	E	2	1_0	58	97	58	8	5	–	–	10	10	800
13B	Stornoway ...	21·5	−6	SE	2	c	58	75	51	9	5	3	–	9	9+	2500
15	Dalwhinnie ...	21·5	−2	SSW	3	0	50	85	53	8	5	–	–	10	10	1500
	Aberdeen ...	21·4	−6	SSE	2	c	66	65	55	7	7	3	–	2-3	9+	2500
	Wick ...	21·8	+6	E'S	2	c	61	75	54	9	8	7	2	4-6	9	3000
16	Sumburgh ...	22·0	0	SW'S	2	c	59	85	53	9	8	–	–	9+	9+	4000
17	Blacksod Point	17·7	−10	SE'S	2	c	68	85	63	8	8	–	–	10	10	2500
18	Malin Head ...	19·5	−10	NE'E	1	c	61	85	56	8	5	–	–	10	10	1500
	Aldergrove ...	20·4	−10	S'E	2	c-bc	71	65	60	8	7	3	9	2-3	7-8	2500
19	Birr Castle ...	18·2	−16	S	1	bc	75	85	70	8	–	–	6	0	4-6	–
20	Valentia Obsy.	15·6	−16	ESE	4	c	73	65	61	9	–	7	–	0	9+	–
	Roches Point	18·1	−14	ESE	4	bc	67	85	62	9	1	–	5	1	4-6	4000

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

Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
19·4	−6	SE'S	3	bc	83	45	57	8	4	–	2	Tr	4-6	4000	0	*
20·2	−6	SE	2	c-bc	81	45	54	8	–	–	2	0	7-8	–	0	*
19·1	−6	SSE	3	c-bc	81	55	61	8	–	–	2	0	7-8	–	0	*
19·2	−2	SE'S	3	bc	79	45	57	8	–	–	2	0	4-6	–	0	*
19·4	−12	E'S	3	c-bc	75	65	61	8	–	–	8	0	7-8	–	0	*
20·9	−6	S	3	c-bc	71	65	58	8	–	–	8	0	7-8	–	0	§
21·3	−2	E'N	4	c-bc	69	65	56	7	–	–	6	0	7-8	–	0	*
20·9	−2	E	4	c-bc	69	75	59	8	–	4	6	0	7-8	–	0	*
21·8	−12	ENE	4	bc	69	85	64	8	–	–	2	0	4-6	–	0	2
22·0	−6	SE'S	3	2_0	66	85	62	6	–	–	3	0	7-8	–	0	3
19·9	−6	SE'S	4	c-bc	80	45	56	8	–	–	2	0	7-8	–	0	*
19·0	−6	ESE	3	b	80	55	41	7	–	–	2	0	Tr	–	0	*
18·1	−10	SSE	2	b	85	35	55	8	1	–	1	Tr	1	5700	0	*
18·3	−14	SSE	2	b	84	35	56	8	1	–	1	Tr	1	4000	0	*
17·9	−14	S	3	b	84	45	59	8	–	–	1	0	Tr	–	0	*
16·4	−16	E	2	b-bc	77	55	61	8	1	6	–	1	2-3	2500	0	2
18·7	−6	S	2	b	81	55	63	8	1	–	4	Tr	Tr	4000	0	*
18·9	−6	E	3	c	65	85	60	8	2	–	–	10	10	4000	1	3
17·5	−10	E'N	4	b	74	65	61	8	–	8	–	0	1	–	0	2
16·4	−18	ENE	5	bc	67	85	62	8	1	3	–	2-3	4-6	3500	0	4
15·7	−18	E	4	b	68	85	62	7	–	–	–	0	0	–	0	4
16·6	−12	SE	4	b-bc	72	75	63	7	1	4	–	2-3	2-3	3000	0	2
17·5	−20	–	0	b	79	55	59	8	–	3	1	0	1	–	0	*
17·1	−18	S	2	b-bc	83	35	56	8	–	–	1	0	2-3	–	0	*
17·9	−12	SSW	2	b	83	45	57	7	4	–	–	Tr	Tr	8000	0	*
20·4	−8	SE'E	5	bc	63	85	56	7	7	–	–	4-6	4-6	2500	0	4
19·7	−6	NE	2	2_0	74	65	61	4	–	–	5	0	4-6	–	0	*
21·6	−18	ESE	3	2_0	62	85	58	6	–	3	–	0	4-6	–	0	4
19·5	−12	SE	4	bc	61	85	58	7	5	4	–	2-3	4-6	4000	0	1
20·3	−6	ENE	3	c-bc	65	75	57	8	5	2	8	4-6	7-8	3000	0	*
18·0	−20	N'E	2	c	70	65	60	7	8	7	6	4-6	9+	2500	0	*
17·8	−16	–	0	b-bc	73	55	56	8	1	–	2	Tr	2-3	3300	0	*
18·4	−12	E	1	b	66	75	59	8	–	–	8	0	1	–	0	1
18·1	−22	NE	2	c	59	92	57	8	5	2	–	7-8	10	2500	1	1
20·7	−2	E	2	c	57	85	51	9	5	2	–	9	10	3500	0	1
19·0	−14	WSW	2	o	61	85	55	7	5	–	–	10	10	2500	0	*
20·0	−18	SSW	2	b-bc	62	65	49	7	5	3	–	2-3	2-3	4000	0	*
20·3	−2	NNE	1	c	64	92	62	8	5	7	–	1	2	1500	0	*
21·3	−6	SW'S	1	c	57	85	54	9	8	3	*	4-6	9	4000	0	1
13·8	−18	–	0	c/fc	65	97	64	8	6	2	–	4-6	10	2500	1	1
15·5	−26	E	3	c	63	85	58	8	5	–	–	9+	9+	1500	0	2
17·3	−18	SSE	2	cjp	68	65	53	8	5	8	9	2-3	9	3000	0	*
14·2	−24	SE	2	c	72	75	64	8	5	1	–	7-8	9+	2500	0	*
13·9	−22	SE	1	c-bc	74	65	62	8	–	7	–	0	7-8	–	1	3
14·1	−26	ESE	1	b-	67	85	62	8	5	3	–	2-3	4-6	2500	0	4

PAST 24 HOURS.

Weather 7h.—13h. 30th (39)	Weather 13h.—18h. 30th (40)	Weather 18h. 30th to 1h. 31st (41)	Weather 1h.–7h. 31st (42)
tcz$_0$cy	cbcy	bccyb	bbzow
beycy	cybcycy	cybbzo	bzo
bcm$_0$bz$_0$cy	bcc$_0$bcy	bcb	bmozo
bcm$_0$whcy	bcy	bcybmo	bmobbmo
bc.	bcc	b	bzobbmo
bz$_0$bby	bcay	cbcb	bbzo
bcy	bcy bcybc	cbcz$_0$bcb	bmo
bcz$_0$bc	bcc	c	cbcb
bbc	bc	bcb	bbmo
bc	bccz$_0$	b	bwmz
bcy	bcy	bcybyb	bbmo
bby	bcby	b	bmo
bbcy	bcby	b	b
cbcz$_0$y	bcy	byb	bbmo
bbc	bcyby	by	bw
bcy	bcybcu	bbl	bbcb
bcm$_0$bcy	bcyby	bybbwm$_0$	bmowbw
b	cc	bc	bcc
cm$_0$wbc	bcb	b	bbc
fcbc	bc	bcb	bc bf
cbc	bcb	b	bofFe
bcm$_0$	bcm$_0$	bcb	bcmo
bbcy	bcby	bmob	by
bcz$_0$y	acz$_0$by	byb	bmozomo
bmw z$_0$y	bz$_0$y	byb	b
10c	bc	bmo	bmo
bcy	bczy	bmo	bmo
cbcm$_0$	bcm$_0$	bcbmo	bcmo
cm$_0$bcm$_0$	bcm$_0$	bcm fbcm	bcmo
c	c	civ c m$_0$	ccmo
cm$_0$	czcyc	czoro m$_0$	cmairacmo
cbc	bc	bccmo	cmobcb
bbccy	cbcb	bcb	b
cldom$_0$cir	cldmcirld	corrmo	croforre
c	c	errmo	cromorrmo
co	occ	cz$_0$c	ocpro
cz$_0$c	cc2$_0$	c	cc2o
cv	c	cro$_r$o	ofro$_r$o
c	c	cbc	cro$_r$o
c	r	c	c
co	r	tlr	tlr
cz$_0$c	ccycjp.	cirocmobclclbc	
	c	d	bc
bc	c	d	d
bc	c	pr	f

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 31st July

Districts	
1 S.E. England	Light or moderate southeast wind veering south to southwest; fine at first, thunderstorms later; local coast fog: hot becoming much cooler.
2 E. England ..	
3 E. Midlands ...	
4 W. Midlands	
5 S.W. England	Light or moderate southeast wind, veering slowly; thunderstorms and thundery rains: warm becoming cooler.
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	
13A W. Scotland ...	
13B N.W. Scotland	
14 Mid Scotland	
15 N.E. Scotland	
16 Orkneys and Shetlands	As 5-15
17 N.W. Ireland	
18 N.E. Ireland	
19 S.E. Ireland	
20 S.W. Ireland	

GENERAL INFERENCE

A depression off West Ireland is spreading east and northeast. There will be thunderstorms in the West and North. Weather will be fine in the East at first but thunderstorms are expected later. It will be hot at first but will become much cooler later.

FURTHER OUTLOOK

Occasional rain and local thunderstorms: cool.

Forecasts issued at

NELSON K. JOHNSON, K.C.B., D.Sc., Director
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday, 31st July 1943.

HIGH

HIGH

Low

1018 1016 1014 1012 1010 1008 1006 1020 1022

10° 5°W. 0° 5°E 10°

60° 55° 50°

STATION MODEL

High Cloud

Medium cloud

Total Amount of cloud

Temperature °F.

Wind

Present weather

Barometer mb.

Visibility

Bar. change in past 3 hours in mbs.

Dew Point °F

Weather in past hour

Low cloud

Past weather

Amount of Low cloud

Height of Low cloud { Code figure (two figure) or hundreds of feet (two figures)

Scale 1:5,000,000

Mb In.

H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

Morning of

Saturday 31st July

1943.

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

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— ◯ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ● Rain falling. ✱ Snow. ✱ Sleet. △ Hail. Fog ≡ Mist. = Thunder. (T) Thunderstorm. Σ Slight haze. ho

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way:—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see page 3*.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add two hours to get double summer time.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 31st July 1943 — No. 29836

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	67	*	*	*	*	*	*	*	*	*
	Croydon ...	330	13·5	−10	ESE	2	b	68	65	57	6	–	–	–	0	dtn.	–
	S. Farnborough	226	18·0	−10	ESE	1	b	64	75	57	8	–	–	–	0	0	–
	Boscombe Down	417	17·5	−14	E'S	2	2o	61	85	57	6	–	–	1	0	1	–
	Thorney Island	10	17·6	−14	E	4	b	68	75	61	6	–	–	2	0	Tr	–
	Lympne ..	283	19·0	−12	E	3	b	65	85	60	7	–	–	–	0	1	–
	Manston ...	154	19·1	−14	ESE	4	b	66	85	61	7	–	–	–	0	0	–
2	Shoeburyness ..	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	20·2	−8	E'N	2	b	65	92	62	7	–	–	0	0	–	–
	Gorleston ...	5	21·6	−4	SE	2	b	64	85	61	7	–	–	–	0	0	–
	Mildenhall ...	15	19·2	−12	SE'E	3	b	60	85	55	8	–	–	–	0	0	–
	Cranwell ...	203	18·7	−4	ESE	3	b	60	85	55	7	–	–	–	0	0	–
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18·2	−8	E	3	b	63	85	57	7	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	12·5	−20	ESE	4	bl	67	75	57	8	–	4	–	0	1	–
	Bristol	299	16·8	−18	SE	3	b	65	85	59	6	–	–	–	0	0	–
	Portland Bill ...	32	15·5	−24	NE	4	bc	62	92	60	8	5	–	–	4-6	4-6	4000
	Plymouth ...	86	14·3	−18	ESE	5	b	67	75	60	7	–	–	–	0	0	–
	The Lizard ...	240	15·8	−16	E	4	b	63	92	63	8	–	–	–	0	0	–
	Scilly (St. Mary's)	163	11·8	−18	ESE	4	b	64	92	62	7	–	–	–	0	0	–
	Guernsey ...	175															
6	Pembroke ...	142	13·7	−16	SE'E	5	b-bc	67	85	62	8	1	–	–	2-3	2-3	4000
7	Holyhead (Valley)	32	14·1	−18	–	0	b	62	85	57	7	–	4	–	0	1	–
	Chester (Sealand)	16	15·7	−6	S	2	b	62	85	56	6	5	–	–	Tr	Tr	3000
8	Manchester ...	230	16·3	−2	SE'S	3	b	70	65	58	7	–	–	–	0	0	–
10	Spurn Head ..	29	13·7	0	SSE	3	2o	63	85	56	6	–	–	–	0	0	–
	Catterick (Sc)...	192	17·9	−18	–	0	2o	86	92	55	6	–	–	–	0	0	–
	Tynemouth ...	108	18·6	−12	S	2	2o	59	92	57	6	–	–	–	0	0	–
11	St. Abbs Head	280	16·0	−24	SSE	4	bc/p	57	97	56	5	5	–	–	4-6	4-6	2500
	Leuchars ...	36	16·3	−26	E	3	m	59	97	58	4	5	–	–	10	10	700
12	Renfrew (Abbotsl.)	19	15·3	−14	NE'E	1	ir.	62	85	57	6	5	2	–	4-6	10	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	15·1	−20	ESE	1	b-bc	63	92	60	8	7	7	–	0	2-3	–
13A	Tiree	44	15·2	−32	–	0	c/p	59	97	55	6	5	2	–	7-8	10	800
13B	Stornoway ...	12	16·7	−22	NE	3	r.r.	55	97	54	6	6	2	–	10	10	1100
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	17·0	−22	–	0	c/r	59	97	58	7	5	–	–	10	10	900
	Wick ...	114	18·8	−18	NE	1	r.r.	55	97		8	5	2	–	7-8	10	1500
16	Sumburgh ..	19	19·7	−8	NNE	2	bc	51	92	51	8	–	4	5	0	4-6	–
17	Blacksod Point	18	08·4	−26	ESE	1	c	65	85	60	8	6	–	–	9	9	2500
18	Malin Head ...	84	11·6	−28	NE	1	ol	61	85	56	7	5	–	–	10	10	800
	Aldergrove ...	268	13·3	−22	SSE	1	cbcl	64	75	55	6	5	–	–	2-3	7-8	3500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08·4	−16	S'E	4	id.	64	92	62	6	5	–	–	10	10	1500
	Roches Point	22	10·5	−18	E'S	4	c	63	92	61	8	8	–	–	9	9	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force. 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	15·7	−10	E'N	2	2o	70	65	58	6	–	–	–	0	0	–	0	*
	Croydon ...	16·4	−18	E	2	b	74	55	56	6	–	–	–	0	0	–	0	*
	S. Farnborough	15·5	−6	SE	3	2o	69	65	58	6	–	–	–	0	0	–	0	*
	Boscombe Down	14·9	−10	SE'E	3	2o	69	75	60	6	–	–	–	0	0	–	0	*
	Thorney Island	14·8	−12	E'N	4	2o	69	75	60	6	–	–	–	0	0	–	0	*
	Lympne ..	16·5	−8	ES	3	2o	71	65	63	6	–	–	–	0	0	–	0	3
	Manston ...	17·0	−8	ESE	3	2o	67	85	62	6	–	–	(	0	Tr	–	0	*
2	Shoeburyness ..	17·6	−6	SE	3	2o	69	85	64	6	–	–	–	0	0	–	0	*
	Felixstowe ...	17·8	−10	ESE	3	2o	67	92	65	6	–	–	–	0	0	–	0	2
	Gorleston ...	19·0	−8	SE	4	2o	64	92	62	6	–	–	–	0	0	–	0	4
	Mildenhall ...	16·7	−10	SE	3	b	66	85	61	7	–	–	–	0	0	–	0	*
	Cranwell ...	16·6	−10	SSE	2	2o	62	85	58	6	–	–	–	0	0	–	0	*
3	Birmingham ...	14·8	−6	SE	3	b	66	75	58	8	–	–	–	0	0	–	0	*
	Upper Heyford	15·5	−10	E'S	2	2o	66	75	59	6	–	–	–	0	0	–	0	*
4	Ross-on-Wye	13·8	−12	NE	1	2o	66	85	60	6	–	–	–	0	0	–	0	*
5	Hartland Point	08·6	−12	SE	4	b	69	75	60	7	–	4	–	0	1	–	0	3
	Bristol	13·7	−10	SE	2	2o	68	75	61	6	–	8	–	0	4-6	–	0	*
	Portland Bill ...	13·0	−12	NE	4	c	65	85	62	7	2	–	–	10	10	4000	1	4
	Plymouth ...	11·1	−4	E.SE	3	bc	69	85	62	7	–	8	–	0	4-6	–	0	2
	The Lizard ...	09·7	−8	NNW	2	cf	64	97	64	1	5	–	–	10	10	600	0	3
	Scilly (St. Mary's)	09·7	−2	SSW	3	c	62	92	60	7	8	–	–	9+	9+	800	0	3
	Guernsey ...																	
6	Pembroke ...	09·6	−12	SE'E	6	b-bc	65	92	62	7	2	4	–	2-3	2-3	3000	0	3
7	Holyhead (Valley)	10·6	−12	E	2	b	73	55	56	8	2	–	–	Tr	Tr	2500	0	1
	Chester (Sealand)	13·3	−6	SW	3	2o	65	75	58	6	–	3	–	0	Tr	–	0	*
8	Manchester ...	14·1	−10	SSE	4	b	70	65	57	7	–	–	–	0	0	–	0	*
10	Spurn Head ..	17·5	−4	SSE	4	2o	64	85	61	6	–	–	–	0	0	–	0	3
	Catterick (Sc)...	16·3	−4	SSE	4	2o	61	85	57	5	–	3	1	0	Tr	–	0	*
	Tynemouth ...	16·4	−6	SSW	2	2o	64	75	57	5	–	–	–	0	0	–	0	2
11	St. Abbs Head	12·7	−10	SW	4	bc	65	75	57	7	5	4	–	2-3	4-6	3000	0	3
	Leuchars ...	12·9	−14	–	0	2o	60	92	58	6	5	3	–	9+	10	700	0	*
12	Renfrew (Abbotsl.)	11·9	−12	ENE	1	2o	63	85	58	5	8	7	2	2-3	4-6	3000	0	*
	Eskdalemuir ...	12·9	−14	–	0	b	64	92	62	6	–	4	–	0	Tr	–	0	*
	Point of Ayre...	11·5	−8	S'E	5	b-bc	65	75	58	8	–	6	–	0	2-3	–	0	3
13A	Tiree	10·1	−12	SE	5	c/r	60	97	60	6	5	2	–	4-6	10	1500	1	1
13B	Stornoway ...	12·0	−18	NE	3	r.r.	55	97	55	6	6	2	–	9	10	500	1	2
15	Dalwhinnie ...	12·5	−14	–	0	pr	58	92	55	6	6	2	–	7-8	10	2500	1	*
	Aberdeen † ...	13·4	−28	SSE	2	c	60	92	57	6	5	3	–	2-3	9+	450	0	1
	Wick ...	14·4	−14	SE	3	r.r.	57	97	56	4	5	–	–	10	10	100	1	*
16	Sumburgh ..	16·3	−20	NE	5	r.r.	55	97	54	7	6	2	–	7-8	10	400	1	4
17	Blacksod Point	06·1	−4	–	0	c	64	92	62	7	5	7	–	4-6	9+	1500	1	1
18	Malin Head ...	07·4	−14	–	0	cbc	66	75	58	8	5	5	–	4-6	7-8	800	1	0
	Aldergrove ...	09·5	−10	SSE	3	b-bc	67	65	56	7	–	13	1	0	2-3	–	1	*
19	Birr Castle ...	07·0	−6	S	1	bc	64	85	59	8	6	–	–	4-6	4-6	2500	0	*
20	Valentia Obsy.	05·8	−6	S'E	3	c	61	97	60	8	5	3	–	9	9+	1500	1	2
	Roches Point	07·1	−10	S	3	f	62	97	61	2	–	–	–	10	10	1150	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 30th Hrs. (38)
1	London (Kew)	86	63	52	–	–	12·3
	Croydon ...	88	65	58	–	–	13·0
	S. Farnborough	87	62	50	–	–	13·8
	Boscombe Down	84	60	55	–	–	14·1
	Thorney Island	78	65	*	–	–	*
	Lympne ..	81	62	57	–	–	11·2
	Manston ...	79	63	60	–	–	10·9
2	Shoeburyness ..	73	64	57	–	–	12·2
	Felixstowe ...	75	64	59	–	–	11·6
	Gorleston ...	68	63	58	–	–	12·2
	Mildenhall ...	86	59	53	–	–	12·7
	Cranwell ...	86	53	48	–	–	13·1
3	Birmingham ...	87	60	49	–	–	13·3
	Upper Heyford	86	60	56	–	–	*
4	Ross-on-Wye	87	58	51	–	–	12·8
5	Hartland Point	82	66	64	–	–	11·5
	Bristol	85	61	*	–	–	13·2
	Portland Bill ...	67	61	*	–	–	*
	Plymouth ...	78	65	60	–	–	13·1
	The Lizard ...	69	62	*	–	–	11·3
	Scilly (St. Mary's)	72	61	*	–	Tr	12·7
	Guernsey ...						
6	Pembroke ...	74	63	*	–	–	13·1
7	Holyhead (Valley)	80	60	54	–	–	*
	Chester (Sealand)	85	59	48	–	–	14·0
8	Manchester ...	84	65	55	–	–	*
10	Spurn Head ..	68	61	*	–	–	13·3
	Catterick (Sc)...	82	56	51	–	–	11·3
	Tynemouth ...	66	57	55	–	–	*
11	St. Abbs Head	67	56	*	–	–	*
	Leuchars ...	71	59	57	–	Tr	4·0
12	Renfrew (Abbotsl.)	74	58	51	–	Tr	2·9
	Eskdalemuir ...	75	56	45	–	–	9·2
	Point of Ayre...	70	60	*	–	–	12·2
13A	Tiree	60	57	56	0·6	14	0·0
13B	Stornoway ...	61	54	53	–	10	0·3
15	Dalwhinnie ...	62	56	53	–	1	0·1
	Aberdeen † ...	66	57	57	–	–	1·7
	Wick ...	66	53	53	–	12	*
16	Sumburgh ..	59	51	47	–	3	3·6
17	Blacksod Point	69	62	*	3	1	*
18	Malin Head ...	63	67	57	1	8	1·9
	Aldergrove ...	72	62	56	–	Tr	13·8
19	Birr Castle ...	78	63	59	–	0·3	7·8
20	Valentia Obsy.	78	61	61	–	Tr	6·4
	Roches Point	69	62	*	–	0·3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 30th July ... 18h. G.M.T. — 01h. G.M.T. 31st July ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	86	02864	04425	57	02854	03226
115	54	02964	20126	52	02844	12227
203						
206	57	02964	12223	52	62·56	08268
210	87	02964	02237	57	61873	06268
219	81	02944	12153	52	62844	08368
230	52	02856	00056	57	02864	00027
245	77	02862	16327	57	05644	16325
260	70	02755	00026	73	05663	04324
278	08	02830	14427	17	02861	14327
279	14	01861	02114	00	01880	26114
285	13	01863	06114	·		
288	00	12490	01315	00	12490	01304
576	13	64867	14226	47	02855	14227
301	00	05690	27201	00	05690	28101
321	10	01762	12243	10	01762	12412
298	04	05690	16303	00	01763	12303
282	00	05690	32703	04	01790	14313
310	--	01642	16312			
614	00	01703	16114	00	00790	14110

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
368	00	01890	11202			
334	--	0188:	28102	--	01881	28202
340	00	05690	16213	00	01990	14301
136	10	01963	16203			
336	10	0176:	16312	00	00790	12300
350				04	05690	14303
368	00	05690	06213			
379	00	01890	04114			
390	20	01764	06215	00	02790	10326
382	00	02830	19125	00	01890	13214
438	04	05693	06213	58	02663	04313
430	00	02990	12116	00	02790	11223
409	00	01890	14513	04	10890	13511

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
				38	02685	02116
				--	05681	00002
53	01790	14302	00	05690	12300	
00	00790	12300	00	05690	11300	
			50	01782	16212	
00	00790	10300	00	05690	10200	
00	00790	12200	58	01661	10303	
			00	05690	12300	
00	05690	00000	00	05590	10200	
00	00830	10100	00	05690	11100	
00	05590	10310	00	05590	06210	
00	00790	10400	00	05690	10300	
00	00690	43600	00	05690	46400	

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

‡ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 31st July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew ...	tc2ocy	cbcy	bcyb2w	
Croydon ...	bcycy	cybcy	cyb2o	Kew 24 hours ended 7h.
Greenwich ...	bcy	bcy	bcby2o	Max. Time 2 4-7 31st
Camden Square			*	Min. Time 10-13 30th
Kensington ...	bc	bc	*	10·1
Hampstead ...	bc	bc	b	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew ...	86	63	52	–	–	12·3	*	*
Croydon	88	65	58	–	–	13·0	*	*
Greenwich	88	61	*	–	–	12·0	43	52
Westminster	88	66	60	–	–		47	66
Regent's Park	87	64	58	–	–		37	51
Camden Square						*	*	
Kensington	88	64	*	–	–		55	53
Hampstead	85	61	57	–	–		*	*