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THE DAILY WEATHER REPORT

BRITISH SECTION

1st July to 30th September

1942

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	2½ ,,
6	Moderate ,,	6¼ ,,
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_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

Beaufort Number.	Admiral Beaufort's General Description of Wind.	Specification for use on Land, based on observations made at British Land Stations.	Limits of Mean Velocities Statute Miles per Hour as recorded by well exposed anemometers about 30 to 40 feet above ground.
0	Calm	Calm; smoke rising vertically...	Less than 1
1	Light air ...	Direction of wind shown by smoke drift	1–3
2	Slight breeze ...	Wind felt on face; leaves rustle	4–7
3	Gentle breeze...	Leaves and small twigs in constant motion; wind extends light flag	8–12
4	Moderate breeze	Raises dust and loose paper; small branches are moved ...	13–18
5	Fresh breeze ...	Small trees in leaf begin to sway; crested wavelets on inland waters...	19–24
6	Strong breeze...	Large branches in motion; whistling heard in telegraph wires	25–31
7	Moderate gale...	Whole trees in motion; inconvenience felt when walking against wind	32–38
8	Fresh gale ...	Breaks twigs off trees; generally impedes progress... ...	39–46
9	Strong gale ...	Slight structural damage occurs (chimney pots and slates removed)	47–54
10	Whole gale ...	Seldom experienced inland; trees uprooted...	55–63
11	Storm	Very rarely experienced; accompanied by widespread damage	64–75
12	Hurricane ...	... ...	Above 75

GALE WARNINGS*

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

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

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

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

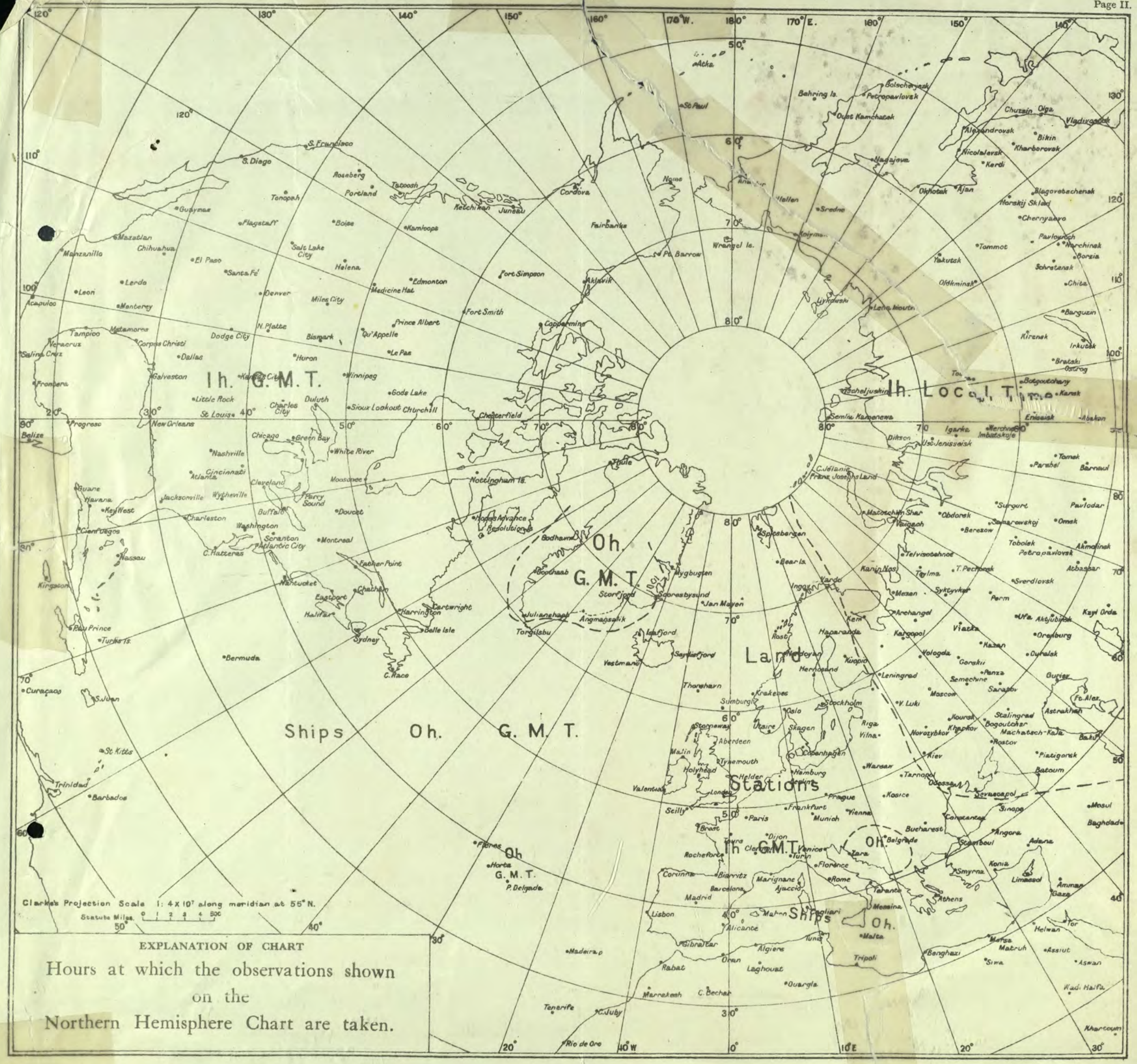
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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

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.

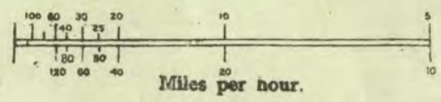
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the 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.

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON

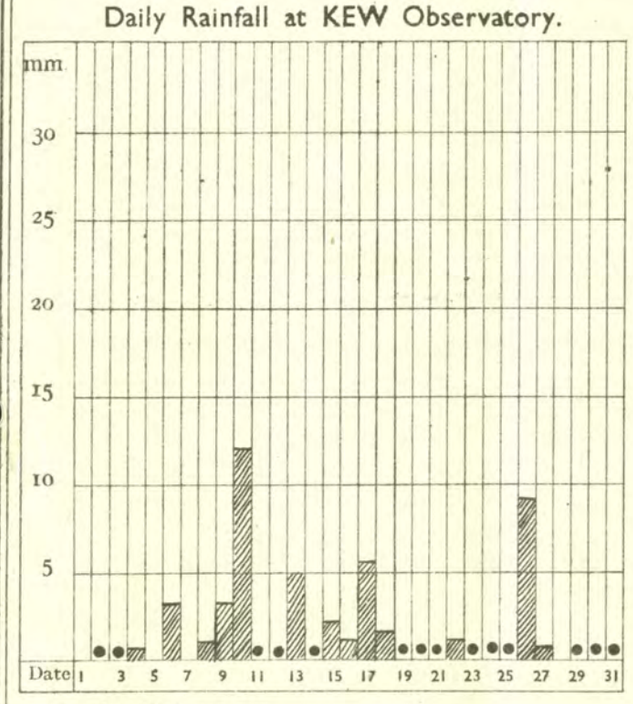
MONTHLY SUPPLEMENT,

July 1942 No. 307

Unsettled Generally.

The pressure distribution at the beginning of the month was mainly anticyclonic, although a shallow disturbance to the South of the country gave rise to thundery conditions in the East and Southeast, thunderstorms being heavy locally. Troughs from a large, complex and almost stationary depression off Northwest Scotland moved eastwards across the country on 3rd, and caused rain and drizzle generally, and local fog in Southwest districts. The whole country remained under the influence of this depression for several days, conditions being very disturbed with showers and thunderstorms in many districts. Later, there were showers and bright intervals over most of the country as this disturbance moved away North. On 10th, a complex low pressure system covered the extreme South of England and moved away eastward on the 11th, rain being general in the South and Southeast of England, but fairer conditions continued in the West. A short fair period was broken by the easterly movement of troughs from the deep disturbance near Iceland, causing rain and drizzle in the West; later, spreading over most of the country during 13th and 14th, with local thunderstorms. A disturbance across the North of Scotland to the North Sea gave passage to unsettled conditions in most areas during the period 16-19th, although fair intervals occurred in the West late in this period and had spread eastwards by the 20th. On the 21st conditions were mainly fair over most of the country, but a disturbance west of Scotland moved east on the 22nd and renewed rain and drizzle spread to most areas by the 23rd, with westerly gales on the West and Southwest coasts. In the rear of this disturbance there was a fair interval over most of England, but scattered showers, thundery in character locally, occurred in Scotland and some Western districts. A depression over Southern England moved east on 27th and much rain and drizzle occurred in the Southeast. During the remainder of the month, the anticyclone to the southwest of the British Isles was the main feature of the pressure disturbance, but feeble troughs associated with a depression north of Iceland caused rain in Scotland on 29th and Southern and Western England on 30th. Rain was generally about average. There was a deficiency of sunshine in the South but amounts were slightly above average in the North.

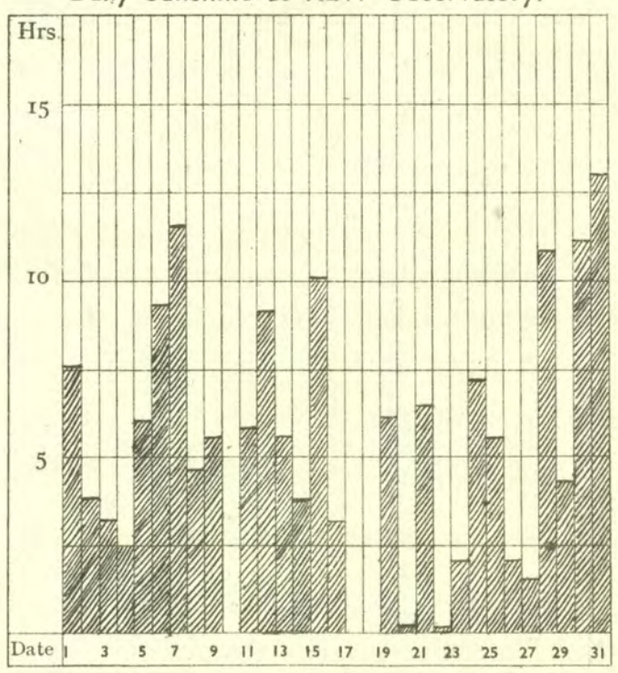
Daily Rainfall at KEW Observatory.



● = less than 0·5 mm.

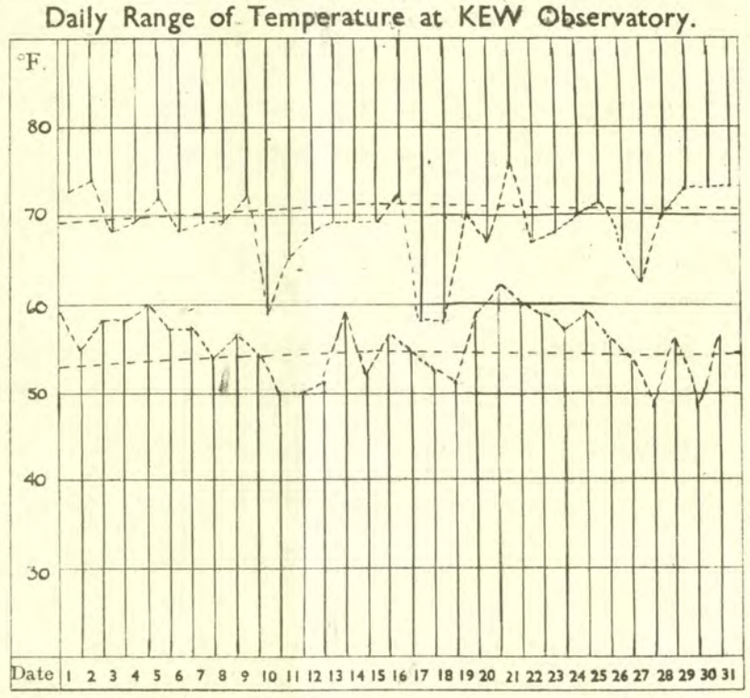
RAINFALL. Total for Month. 45 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 161 hrs.

Daily Range of Temperature at KEW Observatory.



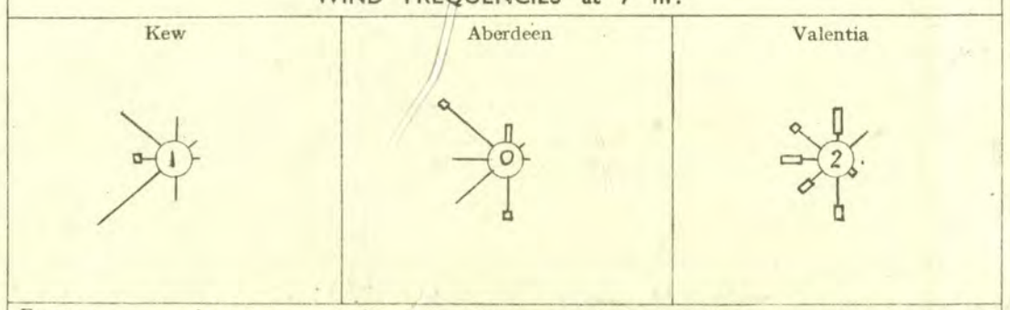
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure: Mean	Pressure: Difference from average	Temperature: Mean	Temperature: Difference from average
	mb	mb.	°F.	°F.
Kew	1015·9	−0·1	62·1	−2·4
Aberdeen	1011·2	−1·8	56·9	−1·0
Valentia	1017·1	+1·0	58·3	−0·9

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

WIND FREQUENCIES at 7 hr.



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

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

	miles.
Kew ...	
Aberdeen ...	
Lerwick ...	10,686
Valentia ...	

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District.	Stations.	† TEMPERATURE. Number of daily readings within fixed limits. Maximum. 42°-50°	51°-59°	60°-68°	69°-77°	78°-86°	Average Maximum.	Minimum. 24°-32°	33°-41°	42°-50°	51°-59°	60°-68°	Average Minimum.	Extremes—Warmest and Coldest. Days. Highest Max.	Date.	Lowest Max.	Date.	Nights. Highest Min.	Date.	Lowest Min.	Date.	Number of Ground Frosts.	LOW CLOUD. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	13 h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	18 h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	FOG, MIST and GOOD VISIBILITY. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
							°F.						°F.	°F.		°F.		°F.		°F.																							
1	London ... (Kew Obsy).	0	3	9	19	0	72.8	0	0	4	23	4	56.2	76	21	58	17, 18	62	21	48	28	0	0	27	0	2	29	0	3	27	0	0	0	0	1	15	0	0	0	0	25
	Croydon ...	0	3	6	22	0	71.9	0	0	8	22	1	54.6	77	5	57	18	59	22	44	28	0	10	4	1	3	28	0	3	25	0	0	0	0	1	8	0	0	0	0	26
	Thorney Island	0	0	13	17	1	68.7	0	0	8	18	5	55.4	81	30	60	10, 18	60	1, 4, 21, 5, 23	45	28	0	4	23	0	3	27	0	1	26	0	0	0	0	1	21	0	0	0	0	25
	Lympne ...	0	1	20	10	0	68.8	0	0	10	21	0	53.8	77	5	58	10	59	21	44	12	0	15	5	2	5	24	0	5	18	2	0	1	1	1	17	0	0	0	0	26
2	Shoeburyness...	0	0	12	17	2	71.8	0	0	3	26	2	54.4	81	5	60	10	61	22	48	28	0	2	19	3	1	26	0	0	29	0	0	0	0	0	21	0	0	0	0	28
	Gorleston ...	0	3	18	10	0	67.9	0	0	5	23	3	55.4	75	3, 24	56	19	60	4, 5, 22	46	28	0	3	18	0	2	28	0	4	24	0	0	0	1	0	20	0	0	0	0	27
	Cranwell ...	0	2	16	12	1	71.0	0	0	14	16	1	52.6	79	2	55	17, 18	60	4	44	2	0	8	11	0	2	29	0	2	26	0	0	0	1	1	13	0	0	0	0	25
3	Birmingham ... (Edgbaston)	0	2	18	11	0	69.3	0	0	11	20	0	54.1	77	2	57	17, 18	58	4	45	28	0	7	16	0	1	30	0	0	31	0	0	0	3	3	11	0	0	0	0	24
4	Ross-on-Wye...	0	0	19	11	1	70.6	0	0	7	22	2	53.7	78	2	60	17, 18	61	21, 22	42	12	0	2	24	0	1	30	0	0	31	0	0	0	1	0	27	0	0	0	0	26
5	The Lizard ...	0	0	30	1	0	*	0	0	1	30	0	*	69	30	61	3, 9	58	3	50	19	*	2	28	0	1	29	0	2	27	0	0	0	1	0	28	0	0	1	0	30
7	Holyhead ... (Valley)	0	2	26	3	0	62.9	0	1	4	26	0	55.1	75	2	59	17, 18	59	21	41	12	0	9	18	1	4	25	0	7	21	0	0	0	0	0	26	0	0	0	0	29
8	Chester ... (Sealand)	0	1	20	10	0	68.8	0	0	7	24	0	53.2	75	1, 2	59	28	59	4, 22	45	28	0	4	24	0	4	24	1	0	29	0	0	0	0	0	17	0	0	0	0	23
10	Tynemouth ...	0	4	20	7	0	64.7	0	0	4	26	1	53.9	71	5	55	18	60	22	48	19	0	0	26	0	0	29	0	0	29	0	0	0	1	1	12	0	0	0	0	20
11	Leuchars ...	0	1	22	8	0	65.8	0	0	12	19	0	50.9	73	31	55	10	56	22	46	11	0	5	20	3	0	30	0	0	31	0	0	0	0	0	25	0	0	0	0	28
12	Renfrew ...	0	0	27	4	0	66.0	0	1	15	15	0	51.5	75	2	60	8, 15, 22	59	3	37	27	0	3	24	0	1	30	0	0	29	0	0	0	1	1	22	0	0	0	0	27
	Eskdalemuir ...	0	4	25	2	0	64.0	1	6	16	8	0	48.8	74	2	58	15	54	3	32	28	2	6	23	0	4	27	0	4	27	0	0	0	0	1	24	0	0	0	0	29
13B	Stornoway ...	0	15	16	0	0	60.9	0	0	11	20	0	50.5	68	2	55	10	56	20	44	11, 26	*	1	30	0	2	29	0	1	30	0	0	0	0	0	29	0	0	0	0	28
15	Aberdeen ...	0	4	23	4	0	64.1	0	1	16	14	0	51.7	73	13, 20	55	10	55	22	41	27	0	4	25	0	2	28	0	1	28	0	0	0	0	1	25	0	0	0	1	26
18	Aldergrove ...	0	3	26	2	0	64.9	0	2	11	18	0	51.5	71	2	58	15	57	13, 30, 31	39	12	0	10	20	0	5	26	0	2	29	0	0	0	0	0	28	0	0	0	0	27
19	Birr Castle ...	0	1	21	9	0	67.0	0	1	12	17	1	52.5	73	30, 31	59	26	60	31	41	1	0	4	25	0	3	28	0	3	28	0	0	0	0	0	31	0	0	0	0	31
20	Valentia ... (Cahirciveen)	0	1	28	2	0	63.7	0	0	5	26	0	54.7	70	31	59	11	59	22, 31	46	2	0	5	24	2	3	28	0	4	25	1	0	0	0	0	27	0	0	0	0	28

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	1830	57.5	53.1	62	50.4	62	54.4	31
850	4840	47.3	42.7	62	41.9	62	46.5	31
750	8180	38.5	34.8	62	34.2	62	38.5	31
650	11920	27.5	25.1	62	23.5	62	29.6	31
550	16170	13.1	11.6	62	9.3	62	15.9	31

UPPER WINDS.

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

Station. Height. Metres.	Lympne. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Plymouth (Mt. Batten). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead (Valley). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Renfrew. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100
		kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.				
500 above ground	47	14	26	6	0	0	24	12	11	1	0	0	18	7	8	2	0	0	9	6	3	0	0	0
1000 above M.S.L.	38	18	16	3	0	0	18	4	12	1	0	0	13	4	9	0	0	0	8	6	2	0	0	0
2000 ,, ,,	23	13	6	2	2	0	7	2	5	0	0	0	5	2	3	0	0	0	3	2	1	0	0	0
3000 ,, ,,	13	7	1	4	0	0	3	3	0	0	0	0	1	1	0	0	0	0	2	1	1	0	0	0
4000 ,, ,,	4	2	2	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0						

† 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).

* 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 ..... 1942.

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).	3	7	10	7	4	11·6	7	1437	-32	159	-35	1880	334	1911	104	1888	18	5	4	4	0	0	11	10	578	-28	44	-11	1856	124	1880	4	1921	1	0
	Croydon	2	7	8	7	7	13·0	7	1570	+45	179	-41	1922	297	1928	132	1927	18	5	4	3	1	0	17	10	611	-68	56	-4	1921	105	1936	3	1921	1	0
	Thorney Island	*	*	*	*	*	*	*	*	*	*	*	1941	*	*	*	*	19	7	3	1	1	0	20	26	*	*	39	-14	1941	132	1920	6	1905	1	0
	Lympne	2	7	8	4	10	14·2	28	1730	-35	187	-53	1921	307	1935	153	1927, 1937	15	5	7	3	1	0	16	26	620	-104	63	+9	1920	126	1927	6	1935	2	0
2	Shoeburyness	1	9	7	5	9	12·9	21	1549	-167	188	-39	1919	311	1928, 1935	128	1919	17	6	5	2	1	0	16	10	481	-22	50	+3	1920	90	1940	7	1921	1	0
	Gorleston	2	6	8	8	7	13·6	31	*	*	189	-22	1908	309	1935	103	1910	15	4	7	3	2	0	19	17	586	-36	92	+33	1871	150	1875	7	1897	4	0
	Cranwell	5	2	8	7	9	13·3	21	1476	-62	193	-13	1921	266	1935	113	1937	15	5	6	5	0	0	9	17	582	-8	53	-6	1917	251	1932	10	1921	0	0
3	Birmingham (Edgbaston)	2	10	8	9	2	10·7	12	1253	-51	143	-28	1887	271	1911	67	1887	14	5	8	4	0	0	11	26	722	+48	53	-6	1893	167	1936	7	1911	1	0
4	Ross-on-Wye	2	9	5	10	5	11·2	12	1467	-18	179	-13	1915	271	1934	122	1927	19	8	3	1	0	0	13	26	580	-137	27	-31	1859	197	1872	6	1911, 1935	0	0
5	Falmouth (Observatory)	1	5	9	8	8	13·4	31	1677	-33	200	-17	1881	346	1911	135	1890	16	6	5	3	1	0	23	3	931	-176	68	-4	1871	178	1924	8	1913	0	0
7	Holyhead (Valley)	*	*	*	*	*	*	*	*	*	*	*	1914	255	1934	123	1920	15	8	5	3	0	0	13	26	804	-83	52	-6	1871	197	1920	8	1935	0	0
8	Chester (Sealand)	1	11	3	5	11	15	12	1378	+2	176	+3	1923	244	1934	112	1931	14	5	7	4	1	0	16	4	620	-18	66	+8	1922	132	1939	18	1934	0	0
10	Tynemouth	*	*	*	*	*	*	*	*	*	*	*	1935	*		*	*	16	4	9	2	0	0	9	17	525	-96	65	+4	1915	174	1940	13	1935	0	0
11	Leuchars	0	6	8	8	9	14	25	1469	-1	205	+33	1922	244	1935	91	1931	13	6	9	2	1	0	21	9	657	+4	67	+1	1922	181	1940	17	1928	2	0
12	Renfrew	0	10	7	10	4	13·7	12	1187	-6	166	+17	1921	231	1934	86	1931	11	5	12	3	0	0	12	23	889	-50	56	-15	1921	136	1936	35	1935	0	0
	Eskdalemuir	1	12	8	5	5	10·9	2	1317	+116	153	+6	1910	217	1935	75	1931	9	5	10	6	1	0	16	3	1383	-46	102	-2	1910	225	1938	25	1913	0	0
13B	Stornoway	3	11	9	3	5	13·7	26	1151	-64	130	-15	1881	227	1917	57	1939	6	5	13	6	1	0	21	3	999	-267	121	+44	1870	175	1871	22	1913	0	0
15	Aberdeen	2	9	10	5	5	13·3	5	1228	-101	157	+5	1881	239	1911	83	1931	14	8	5	4	0	0	9	9	799	+51	43	-28	1871	195	1940	14	1878	0	0
18	Aldergrove	6	5	6	10	4	10·6	11	1293	-6	148	+16	1927	217	1934	87	1939	9	8	8	4	1	1	32	3	951	+113	118	+47	1926	154	1939	27	1935	1	0
19	Birr Castle	4	10	6	7	4	13·4	30	*	*	137	-12	1881	224	1911	93	1936	10	9	6	3	3	0	20	15	*	*	99	+24	1862	186	1880	8	1863	0	0
20	Valentia (Cahirciveen)	2	9	11	5	4	12·8	29	*	*	144	-13	1880	235	1918	71	1932	6	13	8	4	0	0	15	2	*	*	71	-25	1866	223	1937	22	1898	0	0

MINIMUM SURFACE HUMIDITY.

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

Stations.	95 to 100 %	90 to 94 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	0 to 19 %
London (Kew)	0	0	0	2	6	10	12	1	0	0
Ross-on-Wye	0	0	0	5	4	15	7	0	0	0
Falmouth (Obsy.)	1	2	11	11	6	0	0	0	0	0
Renfrew	0	0	2	4	8	14	2	1	0	0
Eskdalemuir	0	0	0	4	8	13	6	0	0	0
Aberdeen	0	0	2	3	12	12	2	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)	4	27	0	0	0	0	0	0	0	0
Ross-on-Wye	26	5	0	0	0	0	0	0	0	0
Renfrew	10	21	0	0	0	0	0	0	0	0
Eskdalemuir	5	26	0	0	0	0	0	0	0	0
Aberdeen	16	15	0	0	0	0	0	0	0	0
Valentia										

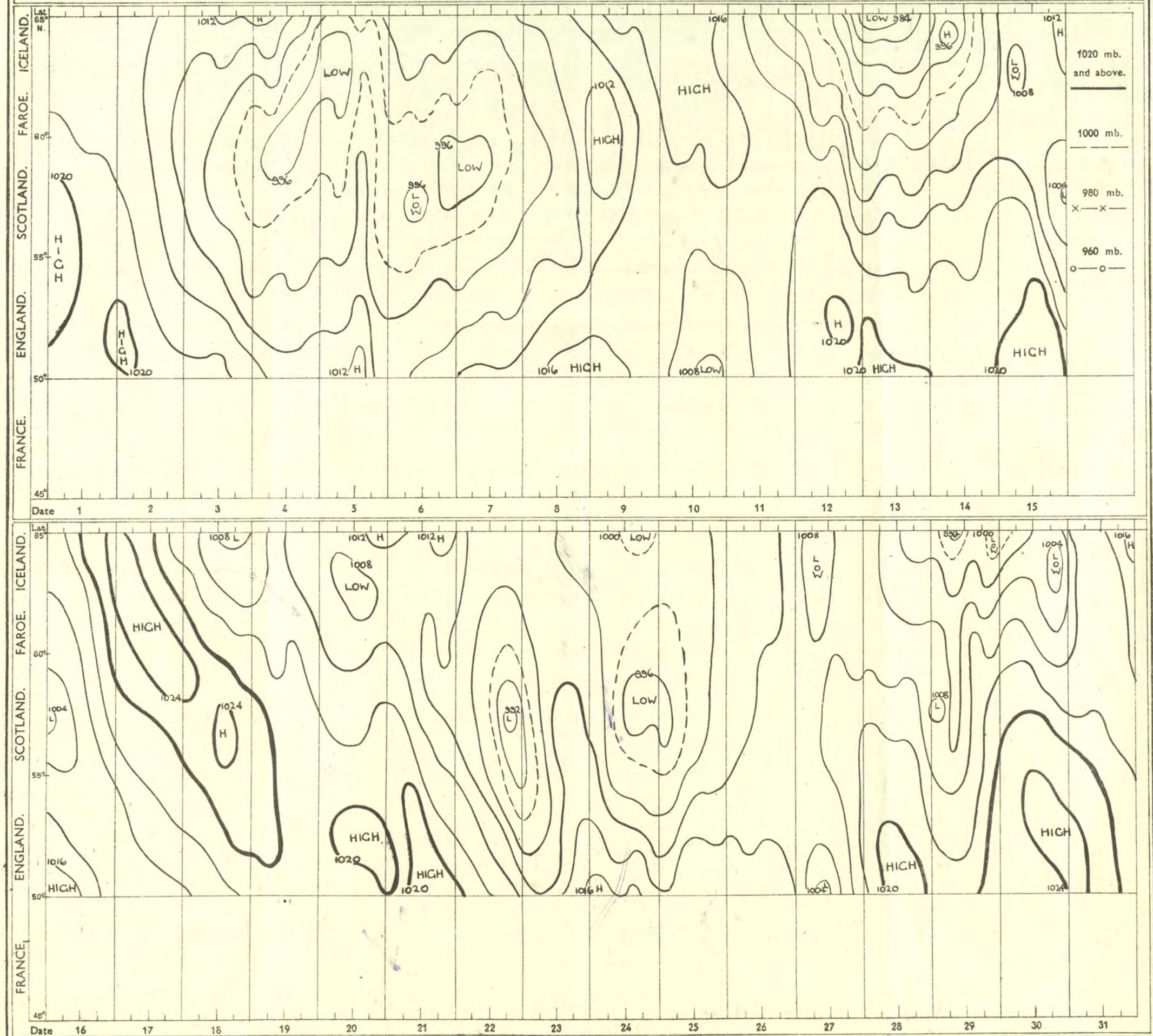
CODE for State of Ground.

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.

‡ 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 ..... 1942.

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

Pr. 388/4307: Wt. 8142. D. 2558. Gp. 346/6. 250. 8/42

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

SECRET

BRITISH SECTION

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

Wednesday 1st July 1942

No. 29440

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)	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)	18·7	-14	W'N	2	Zo	76	55	60	6	8	-	-	9+	9+	2500
	Croydon	19·0	-14	SSW	1	c	79	55	62	7	2	3	6	4-6	9+	3000
	S. Farnborough	18·9	-14	N'W	1	Zo	77	65	61	6	8	-	-	9+	9+	4000
	Boscombe Down	19·6	-14	N	2	c	75	55	59	7	1	7	-	2-3	9+	3000
	Thorney Island	19·6	-10	S	3	bc	69	75	61	8	1	-	3	Tr	7-8	4000
	Lympne	20·8	-6	SE	2	bc	71	55	56	8	2	3	4	1	7-8	5000
	Manston	19·2	-12	ENE	2	c	76	65	65	7	2	3	3	1	7-8	4800
2	Shoeburyness	19·8	-4	E	3	Zo	69	75	61	6	7	3	9	2-6	9	4000
	Felixstowe	20·1	-6	ENE	3	Zo	66	75	58	6	-	7	9	0	9	-
	Gorleston	21·4	-4	ENE	2	Zo	61	85	56	6	-	1	-	0	4-6	-
	Mildenhall	19·4	-4	NNW	2	c	76	55	58	7	7	7	-	7-8	10	3000
	Cranwell	20·5	-8	W'N	1	Zo	68	75	59	6	5	3	-	4-6	9	3300
3	Birmingham	20·8	-8	NNW	2	c	68	65	56	8	-	9	-	0	9	-
	Upper Heyford	19·6	-12	N'E	3	Zo	73	55	57	6	-	3	9	0	7-8	-
4	Ross-on-Wye	20·3	-12	NW'N	3	c	70	65	57	7	7	5	-	2-3	9	4000
5	Hartland Point	20·2	-6	NE	3	c	63	75	56	7	5	7	-	4-6	7-8	1000
	Bristol	20·8	-12	NNE	3	c	70	65	58	7	5	-	-	9+	9+	3500
	Portland Bill	20·3	-6	W	2	c	64	85	61	8	2	4	1	4-6	9	4000
	Plymouth	20·6	-6	SSW	2	c	61	85	58	7	7	8	-	2-3	9	3000
	The Lizard	20·4	-8	-	0	c	61	85	58	7	5	1	-	9	10	1000
	Scilly (St. Mary's)	21·1	-2	NNE	5	c	61	75	54	8	5	4	-	4-6	9	1800
	Guernsey															
6	Pembroke	21·7	-10	NNE	5	cq	62	65	51	8	[illegible]	7	6	2-3	7-8	3500
7	Holyhead (Valley)	22·7	-6	N'W	4	bc	60	65	47	8	1	4	1	4-6	7-8	2500
	Chester (Sealand)	22·3	0	NW'N	4	bc	60	65	49	7	5	3	5	1	7-8	4000
8	Manchester	21·0	-8	WSW	2	bc	67	55	52	6	-	3	-	0	4-6	-
10	Spurn Head	21·8	-2	E'N	3	Zo	59	85	53	6	2	2	-	4-6	9	2500
	Catterick	21·0	-10	E'N	2	Zo	69	55	53	4	1	9	-	4-6	4-6	5700
	Tynemouth	22·2	-4	NE	3	bc	57	85	51	7	2	3	-	2-3	4-6	3000
11	St. Abbs Head	21·9	-4	E	2	c	59	75	49	8	5	4	-	4-6	7-8	2500
	Leuchars	21·1	-10	WNW	3	c	64	55	48	9	1	-	6	4-6	9	2500
12	Renfrew (Abbots I.)	22·6	-4	NW	3	bc	63	55	46	9	1	4	2	4-6	4-6	3500
	Eskdalemuir	20·9	-8	-	0	bc	62	55	42	8	7	-	1	4-6	4-6	3200
	Point of Ayre	23·2	-6	NW'N	4	b	63	65	52	8	1	4	8	Tr	1	3500
13A	Tiree	24·2	0	NW'W	2	c	56	75	49	8	5	-	-	9+	9+	2800
13B	Stornoway	21·5	-2	W	5	c	57	85	51	8	5	7	-	7-8	9+	2500
15	Dalwhinnie	22·0	-2	S	2	c	55	65	45	8	5	-	-	9+	9+	2500
	Aberdeen	20·7	-10	NW	3	c	63	55	45	8	8	-	5	9	9	2400
	Wick	19·3	-6	W'N	4	iro c/pr	61	65	49	9	5	-	-	9	9	3500
16	Sumburgh	15·5	-10	W'S	6	c/pr	52	92	50	6	5	-	-	4-6	9+	800
17	Blacksod Point	23·9	-2	NNE	2	c	60	65	48	9	5	-	-	9+	9+	4000
18	Malin Head	24·7	0	N'W	2	bc	57	65	45	8	8	-	1	2-3	4-6	2500
	Aldergrove	24·6	-6	NNW	3	c	60	65	48	9	7	-	-	10	10	2000
19	Birr Castle	24·4	-6	SSW	1	c	63	55	47	8	5	1	-	7-8	9+	2500
20	Valentia Obsy.	23·5	-2	N	3	bc	68	65	56	9	5	-	1	7-8	7-8	4000
	Roches Point	23·3	-6	E	3	c	61	85	56	8	8	-	5	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 30th June — 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. 30th (39)	Weather 13h.–18h. 30th (40)	Weather 18h. 30th – 1h. 1st (41)	Weather 1h.–7h. 1st (42)
London (Kew)	17·4	-4	NNE	3	Hro	73	65	61	6	9	2	-	9	9+	2500	0	*	bcczoy	ytiro	ctlrrcm.	cm.
Croydon	17·6	-6	NNE	4	TLR	72	75	63	3	9	-	-	6	10	1800	1	*	bbc,cy	cyupro	gtlr	cmcm.
S. Farnborough	16·9	-6	-	0	Hro	74	65	61	6	5	7	-	7-8	10	3000	0	*	cbcmjkzzy	czocmo	ctrmo	cm.
Boscombe Down	17·8	-10	N'E	3	Zo	73	65	60	6	5	7	-	7-8	10	3000	0	*	bcmbc	eczo	cz.m.	bm.
Thorney Island	17·9	-14	SSW	3	bc	69	75	59	8	-	5	3	0	4-6	-	0	*	cmobc	bc	b,br.m.	cir. cm.
Lympne	18·6	-12	SE	2	bc	73	55	56	8	-	4	9	0	4-6	-	0	§	bc	bybcy	beccl	bcm. om.m
Manston	17·5	-4	SSW	2	bc	77	55	61	7	-	3	3	0	7-8	-	0	*	bcyb	czoybc	bcz.bml	bm.cm.m
Shoeburyness	17·8	-6	E'N	3	c	66	85	61	7	5	7	9	2-3	9	2500	0	*	bzobcz	czoc	cpr.	co
Felixstowe	18·8	-6	NE	3	Zo	61	85	57	6	5	7	-	4-6	10	4000	0	1	cmo	cmo	ir.TLR	cm.
Gorleston	20·2	-6	SE'E	1	Zo	59	85	55	6	3	-	-	10	10	1400	1	3	cbczo	bczzo	tlrm.	c
Mildenhall	18·4	-4	NE	3	c/+	71	65	60	6	3	7	-	4-6	10	2500	0	*		cycirc	cm.cm.b	cm.
Cranwell	19·1	-2	E'N	3	Zo	66	85	61	6	5	7	-	7-8	9+	6000	0	*	crrm.cm.	circmo	cm.oid.f	oid.d.fm.
Birmingham	19·2	-6	NNW	3		67	55	51		-	9	-		7-8		0	*	cbcc	cbcc	c	cF
Upper Heyford	18·3	-6	N		Zo	71	65	59	6	4	9	9	2-3	9+	2000	0	*	czobczo		cm.czo	czocm.
Ross-on-Wye	18·6	-8	N'E	2	c	71	55	55	8	-	9	-	0	9		0	*	cbcc	ccy	cy	com.
Hartland Point	18·8	-6	N	3		60	85	55	8	5	8	8	2-3	9	1500	0	3	c	c	c	cbcc
Bristol	18·8	-10	NNE	2	bc	72	65	60	7	5	3	-	4-6	4-6	5700	0	*	cmocmo	cbc	cbc	bcm.
Portland Bill	18·4	-10	W	2	c	62	85	59	8	2	4	-	4-6	7-8	4000	0	2	cc	cbcc	c	c
Plymouth	19·1	-4	WSW	1	c	61	85	57	6	-	7	6	0	9	-	0	2	Pomcmo	c	cm.bm.	bmobcm
The Lizard	18·9	-6	N'E	3	c	64	75	57	8	8	3	-	7-8	7-8	2000	0	3	ffoc	c	c	bcb
Scilly (St. Mary's)	20·3	-4	N'E	4	c	57	75	50	8	5	7	-	2-3	9+	1800	0	3	dffcc	c	cbcb	bbc
Guernsey																					
Pembroke	20·0	-4	NNE	5	cq	61	65	52	8	-	7	3	0	7-8	-	0	3	cq	cq	bcb	bcb
Holyhead (Valley)	21·2	-8	NNW	4	b	61	55	43	9	1	-	2	Tr	1	3000	0	3	bc	bcby	bvybw	bcfcw
Chester (Sealand)	20·8	-6	NW'W	4	bc	59	65	49	9	-	-	2	0	4-6	-	0	*	cbc	bc	bcbw	cbcw
Manchester	19·7	-2	W'N	3	bc	65	55	47	8	-	-	2	0	4-6	-	0	*	bczoy	bczoy	bcybm.	bcm.cm
Spurn Head	20·9	0	ENE	3	f	56	97	55	2	-	-	-	10	10	<150	0	2	czo	F	Fcm.	cm.
Catterick	20·8	+4	NE	3	Zo	60	65	49	6	5	-	-	4-6	4-6	3500	0	*	cbzbcz	bczo	czcy	cmoc
Tynemouth	22·0	-4	E	3	bc	56	85	52	7	-	3	-	0	2-3	-	0	2	bc	Bc	bc	bcm.
St. Abbs Head	20·3	-6	SE	3	bc	57	75	47	8	5	4	-	4-6	4-6	1500	0	2	croc	cbc	bccc	cbcb
Leuchars	20·1	-2	NW	4	c	64	55	49	9	5	3	8	4-6	7-8	3500	0	*	cbccy	cycy	c	bccb
Renfrew (Abbots I.)	21·5	-6	WNW	4	bc	61	65	47	9	4	4	-	4-6	4-6	3500	0	*	cybcy	bcy	bcyc	c
Eskdalemuir	19·9	-2	NNW	2	b	63	55	48	9	-	-	-	0	0	-	0	*	bbcy	bcby	byb	bbc
Point of Ayre	21·8	-6	NNW	4	b	60	75	52	8	1	-	8	Tr	1	3500	0	3	bbcb	b	bbccb	bbc
Tiree	23·5	-4	NW'W	2	c/pr	54	92	"	8	8	-		7-8	7-8	2800	0	3	c	cpr	bc	cbc
Stornoway	21·1	0	WNW	5	c	56	85	51	8	5	9	5	4-6	9	2800	1	2	cproir	cproipr	cpr	c
Dalwhinnie		-4	W	2	c	55	79	46	8	5	-	8	7-8	9	2500	0	*	c	c		c
Aberdeen	19·6	-6	N'E	3	c	61	55	48	8	8	-	-	9+	9+	2200	0	2	cbcy	cy	cybc	bc
Wick	19·0	-2	WNW	3	c/pr	55	85	50	9	8	-	1	4-6	7-8	1500	0	*	ciroc	ciroprc	bccpr.	cproc
Sumburgh	15·8	+2	W	4	bc	52	85	48	8	8	3	-	2-3	4-6	1200	0	4	cprcm.	cbc	cpr.m.c	cproc
Blacksod Point	24·7	-6	N	3	bc	58	65	46	9	8	-	5	2-3	4-6	4000	0	2	0	bc	bc	c
Malin Head	23·9	-4	N'W	2	c	55	75	47	8	8	-	-	10	10	2500	0	2	+	c	c	c
Aldergrove	23·1	-6	NW'N	3	c	59	65	48	8	7	-	-	9	9	3000	0	*	bbcc	cyc	cbcc	c
Birr Castle	22·4	-10	N	1	bc	66	55	50	8	2	-	-	4-6	4-6	2500	0	*	0	bc		bc
Valentia Obsy.	22·3	-6	NW'N	4	bc	63	75	56	9	5	-	-	7-8	7-8	4000	0	3	bc	bc	bc	bc
Roches Point	22·1	-6	S	2	bc	62	85	57	8	5	-	-	2-3	2-3	2500		2	0	bc	b	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 1st July 1942

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man	Light variable winds; mainly fine; rather warm.
13A W. Scotland; 13B N.W. Scotland	Wind light variable becoming Southwest moderate; mainly cloudy; some occasional drizzle later today. Average temperature.
14 Mid Scotland; 15 N.E. Scotland	Moderate to light Northwest wind, backing Southwest to South. Fair periods; a few coastal showers; average or rather low temperature.
16 Orkneys and Shetlands	As 14 and 15
17 N.W. Ireland	As 13A-B
18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	As 1-12

GENERAL INFERENCE

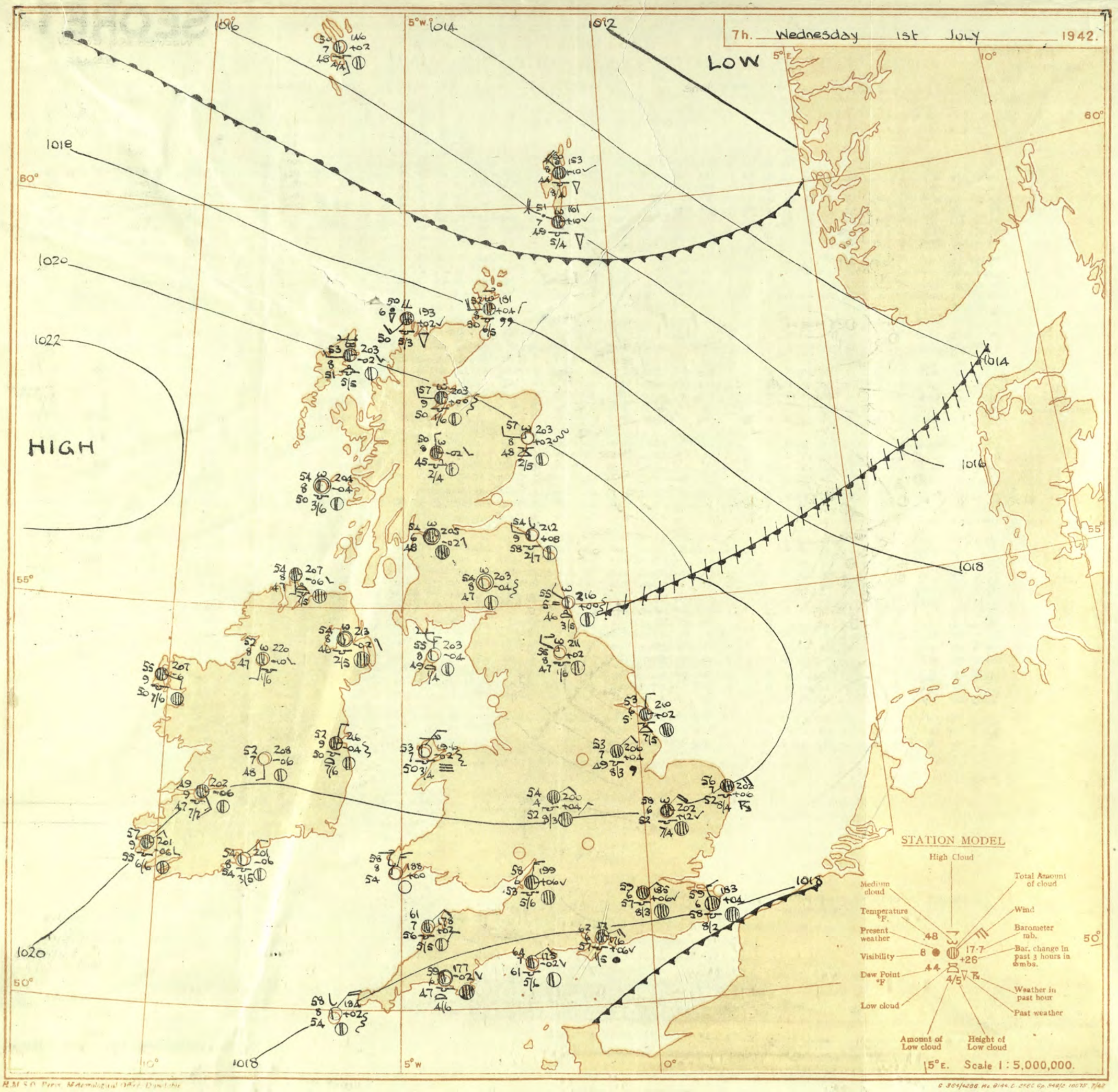
A small anticyclone is forming over the North Sea with the Atlantic anticyclone declining rapidly. Weather will be fine in most districts but some drizzle will occur on the extreme Northwest seaboard.

FURTHER OUTLOOK

A change to thundery conditions generally is anticipated.

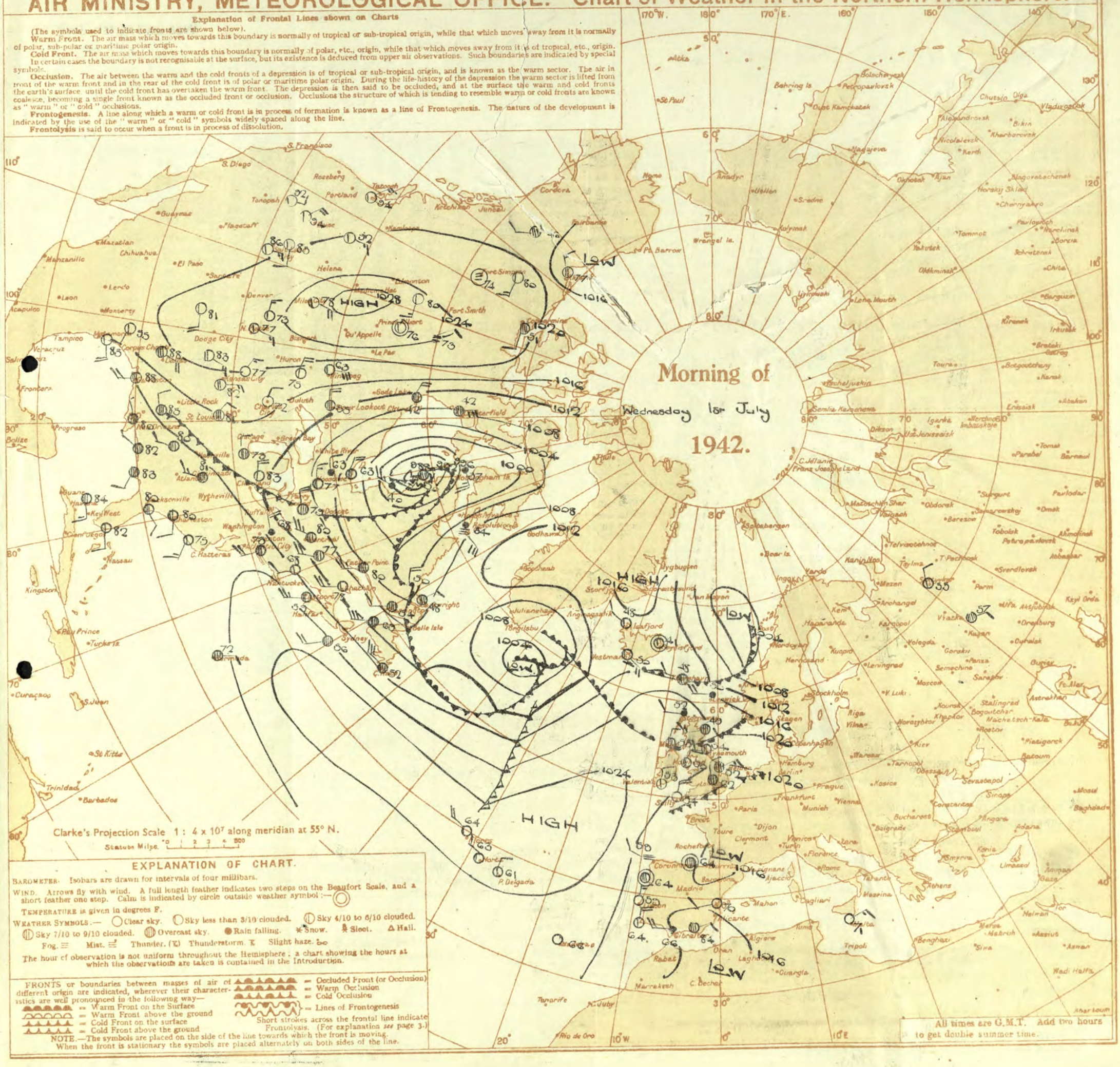
Forecasts issued at 10.30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London W.C.2



H.M.S.O. Paris Meteorological Office 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.

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.

Page 4.

BRITISH SECTION

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

Wednesday 1st July 1942

No. 29440

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)	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	*	*	*	*	*	62	*	*	*	*	*	*	*	*	*
	Croydon	290	18·2	+6	N	2	m	62	97	62	4	5	3	•	7-8	10	1800
	S. Farnborough	226	17·8	+4	NE'N	1	z.	64	85	61	6	5	-	•	7-8	7-8	3500
	Boscombe Down	417	18·5	+2	N	4	ℓ	62	75	53	6	3	-	•	10	10	4000
	Thorney Island	10	17·7	0	WNW	2	ℓr.	63	92	61	6	-	7	2	0	7-8	-
	Lympne	283	18·5	+2	NW	2	ℓ	57	97	57	6	-	9	•	0	4-6	-
	Manston	154	17·6	0	N	2	ℓ	59	97	59	6	3	-	3	Tr	1	2000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	18·4	-2	N'E	4	TLR	58	97	58	6	3	-	-	10	10	1500
	Gorleston	5	19·5	+4	NE'N	3	ℓ	57	92	55	6	5	-	-	10	10	800
	Mildenhall	15	19·2	+6	NNE	2	ℓ	57	92	55	6	-	7	•	0	4-6	-
	Cranwell	203	20·4	+2	NNE	2	df	52	97	52	3	5	-	•	10	10	100
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18·8	+6	N'E	3	z.	59	75	51	6	-	9	8	0	9	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	18·4	-4	NNE	3	c	57	92	54	8	2	6	-	7-8	9	1000
	Bristol	209	19·6	+2	NNW	4	bc	58	65	47	8	-	3	-	0	4-6	-
	Portland Bill	32	18·9	-10	W	2	c	60	85	56	8	5	-	-	7-8	7-8	4000
	Plymouth	82	18·7	-4	-	0	z.	57	92	55	6	-	3	-	0	Tr	-
	The Lizard	240	18·6	-6	N'E	3	c	57	92	54	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	19·6	-6	N'E	4	b	54	92	51	8	-	-	-	0	0	-
	Guernsey	175															
6	Pembroke	142	19·7	-4	NNE	5	b	53	92	49	8	-	4	1	0	1	-
7	Holyhead (Valley)	32	20·6	-8	NNE	2	bc	50	92	48	8	-	4	3	0	4-6	-
	Chester (Sealand)	16	20·3	-4	W'N	2	b	54	85	48	7	-	4	5	0	1	-
8	Manchester	235	20·4	+2	-	0	bc	51	92	49	6	5	-	•	4-6	4-6	2500
10	Spurn Head	29	20·9	0	NE	3	z.	52	97	52	5	-	2	•	4-6	10	2500
	Catterick	175	21·4	-2	NW	1	c	50	85	47	7	5	-	•	7-8	7-8	2500
	Tynemouth	108	21·9	0	W	2	bc	54	85	50	6	5	-	-	4-6	4-6	2500
11	St. Abbs Head	280	20·0	0	SW	2	c	55	75	47	8	5	4	-	4-6	7-8	3500
	Leuchars	36	20·2	+4	WNW	2	c	53	85	47	9	5	7	8	2-3	7-8	4000
12	Renfrew (Abbots I.)	19	20·9	-8	WSW	2	c	50	85	46	8	-	3	-	0	9	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	21·6	0	N	4	b	53	85	49	8	-	4	5	0	1	•
13A	Tiree	22	22·4	-8	NW'W	1	be	48	97	47	7	5	3	-	2-3	4-6	3500
13B	Stornoway	80	20·8	+6	W	2	c	52	97	52	7	5	7	-	7-8	9	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	20·3	+2	WNW	2	c	52	75	46	9	5	7	-	2-3	9+	4000
	Wick	114	19·2	0	WSW	3	pr	49	92	47	6	5	-	-	10	10	2000
16	Sumburgh	19	15·8	0	W	5	c	50	97	49	7	5	7	-	4-6	7-8	1500
17	Blacksod Point	18	22·2	-12	SE	2	bc	48	85	44	8	5	3	-	2-3	4-6	4000
18	Malin Head	84	22·3	-10	N'E	1	c	53	75	46	8	8	-	•	10	10	2500
	Aldergrove	268	22·9	-6	NNE	1	c	51	85	47	7	5	-	•	9+	9+	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	21·9	-6	-	0	bc	51	92	49	8	5	-	!	2-3	2-3	4000
	Roches Point	22	21·2	-4	N	1	b	53	97	52	8	9	4	-	0	Tr	-

OBSERVATIONS at 7 hr. 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)	18·3	+8	NNE	2	z.	60	85	55	5	5	-	-	10	10	2500	1	*
Croydon	18·5	+6	NE	2	z.	59	92	57	6	5	-	•	10	10	900	1	*
S. Farnborough	18·4	+6	NE'N	2	z.	60	85	46	6	5	-	•	10	10	800	0	*
Boscombe Down	18·6	+2	NE'E	3	z.	62	85	57	6	5	3	-	7-8	10	3500	0	*
Thorney Island	17·6	+6	NE	3	z.	62	85	57	6	5	8	•	Tr	9	2500	1	*
Lympne	18·3	+4	NNW	3	z.	59	97	58	6	5	-	•	10	10	400	0	§ 1
Manston	17·8	+6	NNE	4	z.	59	97	57	6	5	-	•	10	10	300	0	*
Shoeburyness	18·7	+8	NNE	3	o	60	85	57	7	5	-	•	10	10	900	0	*
Felixstowe	18·8	+4	N'E	3	z.	59	55	56	6	5	7	-	4-6	7-8	1000	1	2
Gorleston	20·2	+6	NE	3	e	56	85	52	7	5	-	-	10	10	1500	1	2
Mildenhall	20·2	+12	NE	4	z.	58	85	52	6	5	3	-	9+	9+	1500	0	*
Cranwell	20·4	+4	NE'N	2	o	53	85	49	7	5	-	-	10	10	700	0	*
Birmingham	20·3	+4	E	2	f	54	97	54	3	5	-	-	10	10	450	0	*
Upper Heyford	19·7	+10	NNE	3	id.	56	92	54	5	5	-	-	10	10	400	0	*
Ross-on-Wye	19·6	0	NNW	2	z.	56	85	51	6	5	-	-	10	10	700	0	*
Hartland Point	17·8	+2	NE	2	c	61	85	46	7	5	-	-	7-8	7-8	2500	0	3
Bristol	19·9	+6	NNE	3	z.	58	85	53	6	5	7	-	7-8	9	4000	0	*
Portland Bill	17·5	-2	NE	2	c	64	85	61	7	5	-	-	7-8	7-8	4000	0	2
Plymouth	17·7	-2	-	0	z.	59	92	57	6	7	-	-	4-6	4-6	4000	0	1
The Lizard	18·4	+8	NE	3	b	61	85	46	8	-	-	-	0	0	-	0	3
Scilly (St. Mary's)	18·4	+2	N'E	4	be	58	85	54	8	-	4	-	0	2-3	-	0	3
Guernsey																	
Pembroke	18·8	0	NNE	3	b	58	85	54	8	-	4	1	0	1	-	0	3
Holyhead (Valley)	19·6	-2	NNE	1	be	53	92	50	7	5	-	2	2-3	2-3	1500	0	1
Chester (Sealand)	19·3	0	SSE	1	be	54	85	50	5	-	-	2	0	2-3	-	0	*
Manchester	19·7	-2	-	0	z.	56	75	50	6	5	-	-	4-6	4-6	4000	0	*
Spurn Head	21·0	+2	NNE	2	z.	53	92	50	6	7	-	•	9+	9+	2500	0	2
Catterick	21·1	+2	NW	1	b	55	75	47	8	5	3	1	Tr	1	3000	0	*
Tynemouth	21·6	0	NW	2	z.	55	75	46	5	2	3	•	2-3	4-6	2800	0	2
St. Abbs Head	21·2	+8	WNW	1	be	54	85	48	9	5	4	•	1	2-3	5000	0	2
Leuchars	20·2	0	WSW	2	be	55	92	50	9	-	5	-	0	2-3	-	0	*
Renfrew (Abbots I.)	20·5	-2	-	0	c	54	75	48	6	-	3	-	0	9+	-	0	*
Eskdalemuir	20·3	-4	-	0	bc	54	75	42	8	-	3	-	0	2-3	•	0	*
Point of Ayre	20·3	-4	N	1	be	55	85	49	8	1	4	5	Tr	2-3	1000	0	2
Tiree	20·4	-4	-	0	be	54	85	50	8	5	3	•	2-3	4-6	3500	0	3
Stornoway	20·3	+2	W	1	c	53	92	51	8	8	7	-	7-8	9+	2000	1	1
Dalwhinnie	20·6	-2	N	1	c	50	85	45	8	4	3	-	1	9+	1500	0	*
Aberdeen †	20·3	+2	W	2	be	57	75	48	8	7	3	•	1	4-6	2500	0	2
Wick	19·0	+2	NW'W	4	c/pr	53	85	50	9	8	3	-	4-6	9	1200	0	*
Sumburgh	16·1	+10	WNW	4	pr	51	92	49	7	5	7	-	7-8	9+	1500	1	4
Blacksod Point	20·7	-6	ESE	2	c	55	85	51	9	5	-	-	9+	9+	4000	0	2
Malin Head	20·7	-6	ESE	2	c	55	85	51	8	8	-	•	9+	9+	2500	1	1
Aldergrove	21·3	-2	-	0	bc	54	75	46	8	7	3	9	1	4-6	2000	0	*
Birr Castle	20·8	-6	S	1	b	52	85	48	7	-	-	-	0	0	-	0	*
Valentia Obsy.	20·1	-6	NE	1	c	57	92	55	9	5	-	-	9	9	4000	0	0
Roches Point	20·1	-6	N'E	1	be	54	97	53	8	5	-	•	2-3	2-3	2500	0	1

PAST 24 HOURS.

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 30th Hrs. (38)
London (Kew)	78	59	56	Tr	32	5·3
Croydon	81	58	57	Tr	12	9·0
S. Farnborough	78	60	49	-	Tr	4·1
Boscombe Down	77	58	56	-	•	2·3
Thorney Island	74	60	58	-	0·1	*
Lympne	76	55		-	•	14·0
Manston	81	53	50	-	-	12·3
Shoeburyness	80	59	58	-	Tr	9·6
Felixstowe	69	59	52	-	9	7·3
Gorleston	61	55	54	-	5	1·9
Mildenhall	77	57		Tr	•	3·6
Cranwell	*	50	51	1	Tr	2·0
Birmingham	72	54	50	-	-	5·6
Upper Heyford	74	55	55	-	-	*
Ross-on-Wye	73	52	47	-	•	2·4
Hartland Point	64	56	53	-	•	2·7
Bristol	74	55	52	-	-	2·6
Portland Bill	65	59	*	-	-	*
Plymouth	63	54	47	-	-	3·4
The Lizard	68	54	*	-	•	1·5
Scilly (St. Mary's)	61	54	*	-	-	1·3
Guernsey						
Pembroke	63	47	*	—	•	9·8
Holyhead (Valley)	63	42	32	-	•	*
Chester (Sealand)	62	47	37	-	-	13·0
Manchester	69	50	42	-	•	*
Spurn Head	73	50		-	-	2·4
Catterick	70	50	45	-	-	5·9
Tynemouth	58	51	48	-	-	*
St. Abbs Head	63	52	*	-	-	
Leuchars	67	49	46	-	-	8·4
Renfrew (Abbots I.)	64	49	44	-	-	11·5
Eskdalemuir	67	41	33	-	-	14·4
Point of Ayre	63	45	*	-	-	15·0
Tiree	58	54	*	Tr	-	1·3
Stornoway	58	51	*	0·1	Tr	2·3
Dalwhinnie	60	44	38	-	-	3·2
Aberdeen †	64	49	40	-	-	3·5
Wick	61	47	45	1	0·2	*
Sumburgh	54	50	47	0·2	0·4	4·8
Blacksod Point	60	45	*	-	-	*
Malin Head	57	51		Tr	•	1·7
Aldergrove	62	48	42	-	-	3·9
Birr Castle	68	41	37	-	-	3·8
Valentia Obsy.	68	48	42	-	Tr	7·5
Roches Point		52	*		Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 30th June $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 1st July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	82	81636	35778	83	02805	56620	53	10746	22487	53	21856	24457
115							52	81734	24487	52	81635	20388
203				5-	02947	24427				5-	03838	16428
206	83	02964	22426	83	02966	24487	43	02964	26316	53	02961	24216
210	25	02964	22586	83	02954	25386	5-	02865	22427	53	02972	21326
220				53	02845	24317				82	02845	21228
230	73	02965	23326	5-	02958	20328	5-	02856	23226	53	01852	32114
245	7-	02966	16417	7-	02967	20127	53	02961	2216-	03	01990	20115
260	10	01863	25114	54	01973	27214	03	01890	28215	03	02796	28215
278	70	02955	30425	10	00351	28411	54	01841	31516	53	02974	30327
279	17	01861	22113	10	00861	30202	04	01890	29404	03	05690	32225
285	10	01864	16310							53	01863	28214
288	60	05661	02220	03	05690	02201	53	08464	00016	03	05690	00013
575				57	02967	04128	5-	02868	04228	53	01861	16125
301	03	00880	28402	00	00890	28413	03	05690	28103	53	05573	12215
321	23	05664	31264	00	02790	06427	5-	05635	02128	50	05641	00021
299	5-	05646	10116	--	48105	01245	50	43426	02146	54	01763	00014
292	20	01764	00014	40	01764	07214	53	05663	00014	53	05653	00014
310	--	01626	24216							--	01435	32415
614	37	05605	28127	43	05573	00026	5-	08428	04328	52	05546	04127

III	13h. G.M.T. 30th June $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 1st July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	1-	01961	30415	10	01951	30413	02	00890	02300	00	01990	28203
334	--	01762	30203	--	01772	30203				--	04448	32228
340	13	02901	30426	07	02953	03326	5-	02857	30127	5-	00647	02127
136	57	25643	04187	5-	05668	03328	--	46203	04368	5-	05685	02225
336	13	01753	52315	14	01753	04315				50	05658	32328
350	89	05664	30217	59	05661	02227	5-	05558	02328	5-	05628	02358
368	03	02636	13227	53	02674	16127	53	08453	32114	5-	02658	04218
379	13	02662	32325	83	05665	30328	53	05655	32327	5-	05688	02428
390	8-	05645	24117	87	25565	02228	57	07564	02366	5-	05588	04328
382	07	05690	30417	57	05681	30226	52	05655	32228			
438				84	01763	22204	04	00795	24203	50	05537	02417
430				08	01890	18214	57	05655	00016	8-	05557	04825
409	58	02724	03427	58	02855	02427	04	00795	02311	58	00771	04201

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 1st 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	bczy	zy r0	ctlrr0m
Croydon	bhyzy	cy pr.	tlrom
Greenwich	cy	cy+lr	tlrrc
Camden Square	bc	c	*
Kensington	cbcz	cbcz	*
Hampstead	bcortl	ortl	ob

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·1 Time 7-18h 30th
Min. 0·1 Time 19-24h 30th

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	78	59	56	Tr	32		*	60
Croydon	81	58	57	Tr	12		*	90
Greenwich	84	60	54	1	2	7·9	50	80
Westminster	79	60	57		12		66	93
Regents Park	80	59	56	-	4		63	83
Camden Square	79	58	56	-	3	*	*	76
Kensington	80	59	57	-	6		71	84
Hampstead	78	56	55	2	1		*	83

BRITISH SECTION

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

SECRET

Thursday 2nd July 1942

No. 29442

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)	18·8	+2	ESE	3	20	72	85	67	6	8	3	-	7·8	7·8	2500
	Croydon ...	19·2	+2	E'N	3	bc	69	65	55	7	1	-	-	2·3	2·3	2000
	S. Farnborough	19·3	+4	E'N	2	20	70	60	58	6	7	7	-	4·6	10	2000
	Boscombe Down	19·4	+2	E'S	3	20	66	75	57	6	5	1	-	7·8	10	2000
	Thorney Island	18·7	+4	ENE	2	20	65	75	58	6	5	7	-	9	10	1500
	Lympne ...	20·1	+10	NNE	4	c	64	75	55	8	7	-	-	9	9	4500
	Manston ...	19·9	+10	NE'N	4	20	61	85	56	6	5	-	-	9+	9+	1800
2	Shoeburyness ...	21·0	+14	E	3	bc	63	75	55	7	-	3	2	0	4-6	-
	Felixstowe ...	20·1	+8	ENE	4	bc	62	75	53	8	1	-	2	1	2-3	2500
	Gorleston ...	20·3	+4	NE	4	bc	58	75	50	7	2	-	-	4-6	4-6	3000
	Mildenhall ...	20·0	0	NE	2	bc	69	35	40	8	-	-	2	0	4-6	-
	Cranwell ...	20·3	+2	E	3	bc	67	55	48	8	5	-	2	Tr	2-3	3500
3	Birmingham ...	19·6	-4	ESE	3	b	70	55	54	8	1	-	-	1	1	4000
	Upper Heyford	19·3	-2	ENE	3	bc	71	55	53	7	1	3	8	2-3	4-6	2500
4	Ross-on-Wye	19·2	0	NE'E	2	20	66	65	55	6	1	-	-	2-3	2-3	3000
5	Hartland Point	17·7	0	NE	3	bc	64	75	56	7	2	6	-	4-6	4-6	3000
	Bristol ...	19·2	+2	ENE	3	20	71	65	59	6	1	3	-	2-3	7-8	2500
	Portland Bill ...	18·8	+8	E	2	0	62	85	59	7	5	-	-	10	10	2500
	Plymouth ...	17·9	+2	SSE	2	20	71	75	60	6	5	-	-	4-6	4-6	2000
	The Lizard ...	18·4	0	E	2	bc	67	85	62	8	2	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	18·0	-2	NNE	3	b	61	85	55	7	1	-	-	Tr	Tr	1500
	Guernsey ...															
6	Pembroke ...	18·7	0	NNW	3	bc	67	75	59	8	-	7	-	0	4-6	-
7	Holyhead (Valley)	18·6	-6	N'W	3	b	63	75	53	7	1	-	1	Tr	Tr	3000
	Chester (Sealand)	18·6	-10	SSE	3	20	72	55	54	6	-	-	-	0	0	-
8	Manchester ...	18·9	-8	SSE	3	bc	73	45	51	6	1	3	-	4-6	4-6	4500
10	Spurn Head ...	21·6	+2	E'N	3	20	55	85	51	6	1	3	1	2-3	4-6	4000
	Catterick ...	20·3	-4	SSW	2	bc	70	45	50	8	1	-	1	4-6	4-6	2500
	Tynemouth ...	21·6	-2	E	3	bc	61	75	54	7	-	3	-	0	2-3	-
11	St. Abbs Head	20·4	-10	SE	3	bc	61	75	54	8	1	-	-	2-3	2-3	5000
	Leuchars ...	20·2	0	SE	3	bc	66	65	55	8	1	-	8	2-3	2-3	3500
12	Renfrew (Abbotsl.)	18·9	-10	WSW	1	bc	69	55	51	8	1	3	-	2-3	2-3	4000
	Eskdalemuir ...	19·1	-4	S'E	1	bc	65	55	50	8	7	-	-	4-6	4-6	2800
	Point of Ayre ...	19·7	-6	N	2	bc	59	75	51	7	—	-	6	0	4-6	-
13A	Tiree ...	20·1	-4	SW	1	c	55	85	49	8	5	-	-	9+	9+	3500
13B	Stornoway ...	20·3	-2	SSE	3	c	54	55	39	8	5	1	-	7-8	10	2500
15	Dalwhinnie ...	19·2	-4	SE	2	c	64	55	45	8	8	2	-	4-6	10	2500
	Aberdeen ...	20·1	0	S	3	bc	64	55	50	9	8	4	6	1	2-3	2800
	Wick ...	19·8	0	NW	3	c	58	75	48	9	8	6	-	7-8	7-8	3000
16	Sumburgh ...	18·2	+10	WNW	5	c	54	85	49	8	8	3	-	7-8	9	2500
17	Blacksod Point	18·7	-14	S'E	3	bc	64	75	56	9	8	-	6	2-3	4-6	4000
18	Malin Head ...	19·8	-6	ENE	1	bc	57	75	49	8	8	-	-	4-6	4-6	2500
	Aldergrove ...	19·6	-10	WNW	1	bc	62	65	50	8	1	-	9	1	2-3	3500
19	Birr Castle ...	19·1	-10	SW	1	bc	69	55	53	8	1	-	-	2-3	2-3	2500
20	Valentia Obsy.	18·8	-10	S'W	4	c	67	65	56	9	8	-	-	9+	9+	5700
	Roches Point	19·4	-6	SE	3	bc	62	75	54	8	2	-	1	1	2-3	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force (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)	18·4	+2	ESE	3	b	69	55	54	7	5	-	1	Tr	1	2500		*
	Croydon ...	18·8	0	E	3	b	66	65	55	8	-	-	4	0	1	-	0	*
	S. Farnborough	17·4	-8	ESE	3	20	72	55	52	7	-	3	-	0	2-3	-	0	*
	Boscombe Down	18·0	-6	SSW	3	20	68	75	60	6	5	3	-	Tr	2-3	3000	0	*
	Thorney Island	18·0	-8	SW	2	b	65	85	59	6	-	3	1	0	1	-	0	*
	Lympne ...	19·6	0	NE	3	b	59	85	53	8	-	3	-	0	1	-	0	§1
	Manston ...	19·6	-2	NE	3	b	59	85	55	7	1	-	1	1	1	3100	0	*
2	Shoeburyness ...	20·2	+2	ENE	3	c	60	75	53	8	7	9	-	4-6	7-8	4000	0	*
	Felixstowe ...	20·5	+4	NE	4	bc	59	75	51	8	1	-	2	1	2-3	2500	1	2
	Gorleston ...	21·2	-2	NE'N	4	bc	58	85	53	7	2	-	-	4-6	4-6	1000	0	3
	Mildenhall ...	19·6	-2	E'N	4	b	66	55	48	9	5	4	-	Tr	1	5700	8	*
	Cranwell ...	20·2	-4	E'S	4	b	62	65	48	8	-	-	-	0	0	-	0	*
3	Birmingham ...	18·5	-6	ENE	3	bc	69	55	54	7	3	-	1	1	2-3	5700	0	*
	Upper Heyford	17·9	-2	ENE	4	b	72	45	52	7	-	-	-	0	0	-	0	*
4	Ross-on-Wye	17·1	-10	E	2	bc	74	55	55	7	7	5	-	1	2-3	-	0	*
5	Hartland Point	16·3	-2	SW	3	bc	69	75	61	5	7	6	-	2-3	4-6	2800	0	3
	Bristol ...	17·8	-8	SSE	1	20	72	65	60	6	5	3	-	2-3	4-6	4000	0	*
	Portland Bill ...	18·1	-6	E	2	0	60	85	56	7	5	-	-	10	10	2500	0	2
	Plymouth ...	17·3	-6	SSE	3	20	65	85	59	6	1	-	-	2-3	2-3	2700	0	2
	The Lizard ...	16·5	-8	E'N	2	bc	65	85	60	7	4	-	-	2-3	2-3	3000	0	2
	Scilly (St. Mary's)	16·6	-12	ENE	2	b	66	75	59	7	8	-	-	0	2-3	-	0	1
	Guernsey ...																	
6	Pembroke ...	16·7	-8	N	3	b	69	75	60	8	-	-	-	0	0	-	0	2
7	Holyhead (Valley)	17·2	-12	NW	2	b	65	66	54	7	-	-	-	0	0	-	0	2
	Chester (Sealand)	17·4	-8	WNW	3	20	69	65	58	6	2	-	-	2-3	2-3	3200	0	*
8	Manchester ...	18·0	-8	ESE	3	b	71	55	52	6	-	-	-	0	0	-	0	*
10	Spurn Head ...	21·3	-4	ESE	4	bc	55	92	52	7	-	4	1	0	4-6	-	0	3
	Catterick ...	19·4	-2	SSE	3	bc	66	55	47	8	5	-	-	4-6	4-6	3000	0	*
	Tynemouth ...	20·4	-8	SE	3	bc	57	75	47	8	-	4	2	0	2-3	-	0	3
11	St. Abbs Head	18·6	-16	SE	4	c	54	92	52	8	5	-	-	10	10	4000	0	3
	Leuchars ...	18·8	-6	E	4	c	59	85	55	8	5	7	8	1	9+	2500	0	*
12	Renfrew (Abbotsl.)	17·6	-8	W'S	2	bc	67	55	52	8	-	3	1	0	4-6	-	0	*
	Eskdalemuir ...	17·2	-10	SW	2	c	68	65	55	6	8	7	-	7-8	9	2400	0	*
	Point of Ayre ...	18·1	-12	NW'N	1	b	61	75	53	8	-	-	1	0	1	-	0	1
13A	Tiree ...	19·0	-4	—	0	c	57	75	48	8	5	3	8	2-3	7-8	3500	0	2
13B	Stornoway ...	18·9	-6	—	0	c	58	85	52	8	5	1	-	7-8	10	2000	-1	1
15	Dalwhinnie ...	18·7	-6	SW	3	c	61	65	48	8	5	3	-	4-6	9+	2500	0	*
	Aberdeen ...	20·1	-4	S'W	4	c	57	75	49	8	-	7	6	0	7-8	-	0	2
	Wick ...	19·8	-2	SE	1	c	53	85	49	9	8	7	-	4-6	10	4000	0	*
16	Sumburgh ...	19·2	+6	WSW	3	c	52	92	50	8	5	3	-	4-6	9	2500	0	3
17	Blacksod Point	17·2	-14	W'S	2	c	61	65	50	8	8	3	-	2-3	7-8	4000	0	1
18	Malin Head ...	18·0	-12	ESE	3	bc	55	75	47	8	1	-	4	1	4-6	2500	0	2
	Aldergrove ...	17·8	-12	ESE	1	bc	64	65	51	8	5	-	1	2-3	2-3	3500	0	*
19	Birr Castle ...	16·6	-12	SW	1	bc	71	45	51	8	1	-	-	2-3	2-3	2500	0	*
20	Valentia Obsy.	17·5	-8	SSW	3	c	63	75	55	8	7	-	-	7-8	7-8	7200	0	2
	Roches Point	17·4	-14	S	3	b	62	85	58	8	1	-	-	Tr	Tr	4000	0	2

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 1st (39)	Weather. 13h.–18h. 1st (40)	Weather. 18h. 1st – 1h. 2nd (41)	Weather. 1h.–7h. 2nd (42)
1	London (Kew)	cmocy	bcby	bybo	bcem2
	Croydon ...	cmobcb	byb	bwcm2	cm0
	S. Farnborough	c20	b20yby	bycbm2sw	cm0
	Boscombe Down	cm0c20	bc20bz0	cbcbz3m2	bm0cm0
	Thorney Island	cm0	ccbm0	bm2bw	bbcem2
	Lympne ...	0cm0c	cbbcb	bbcbw	bbcm2st
	Manston ...	cm0	bm0	b1bcm2	bm2bc
2	Shoeburyness ...	0m0bbc	bcc	c	bcw
	Felixstowe ...	cbcb	bbcb	b1c1bc	bcc
	Gorleston ...	bc	bc	b	bw
	Mildenhall ...	bbcbcy	bcyby	bm2fgbfw	bwb
	Cranwell ...	bcbbc	b	bm2bfw	bbm2w
3	Birmingham ...	fob	b	b	b0m
	Upper Heyford	dd1m0bc20	bcyby	bbm2	cm2fid
4	Ross-on-Wye	02c2		bz3c	bcb
5	Hartland Point	cbc	bm0	bcc	cbc
	Bristol ...	cm0bc20	c20bc20c	bc2bm	bm2fm2w
	Portland Bill ...	c0	0	cbc	bcc
	Plymouth ...	bcm0	bcm0	bcm2bm	cm0
	The Lizard ...	bbc	bc20	f-fmc	0c0
	Scilly (St. Mary's)	bcb	b	bccof	cm0
	Guernsey ...				
6	Pembroke ...	bc	bz0	cbcbm2	bcm
7	Holyhead (Valley)	bccb	b	bm2w	bcfgbm2
	Chester (Sealand)	bcbz0y	bz0y bc	bc2bz	bm2z
8	Manchester ...	bc20y	bc20y	bz3y	b
10	Spurn Head ...	bc20	bc	bc	bc
	Catterick ...	bcby	bcy	b	bbcmcf
	Tynemouth ...	bcm0bc	bc	bccbc	bcm0
11	St. Abbs Head	bcm0b	bcc	cb	bcm2
	Leuchars ...	bbc	bcc	c	cfbcm2
12	Renfrew (Abbotsl.)	bc20bcy	bccbcy	bcfgm2m	bcfgbz
	Eskdalemuir ...	cbcy	bcyc	cbcb	bbc
	Point of Ayre ...	bcbbc	bcb	bbc	bcc
13A	Tiree ...	b	c	bc	bc
13B	Stornoway ...	c	c	c	cbc
15	Dalwhinnie ...	c0	0c		cb
	Aberdeen ...	bcy	bcyc	c	cbz3w
	Wick ...	cp10c	c	c2ir0	cbc
16	Sumburgh ...	cbcc	c	cbcc	cr0
17	Blacksod Point	bc	bc	c	c
18	Malin Head ...	c	bc	b	bc
	Aldergrove ...	bccbc	bbc	bcb	bbc
19	Birr Castle ...	bc	b		c
20	Valentia Obsy.	0	bc	bc	bc
	Roches Point	bc	b	bc	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 2nd July 1942

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light or moderate East wind veering South to Southwest. Fair at first, thundery rain or thunderstorms later. Becoming cooler.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England	Moderate Southeast wind fresh locally veering South to Southwest. Cloudy, thundery rains or thunderstorms later. Becoming cooler.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate Southeast wind veering South to Southwest. Fair at first, thundery rains or thunderstorms later. Average temperature.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland	As 5-8
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 20 S.W. Ireland	As 5-8

GENERAL INFERENCE

A shallow depression over North France is moving Northeast, and a trough of low pressure West of Ireland is moving East. There will be thundery rains or thunderstorms in the West and South extending to all districts of the British Isles during the next 24 hours.

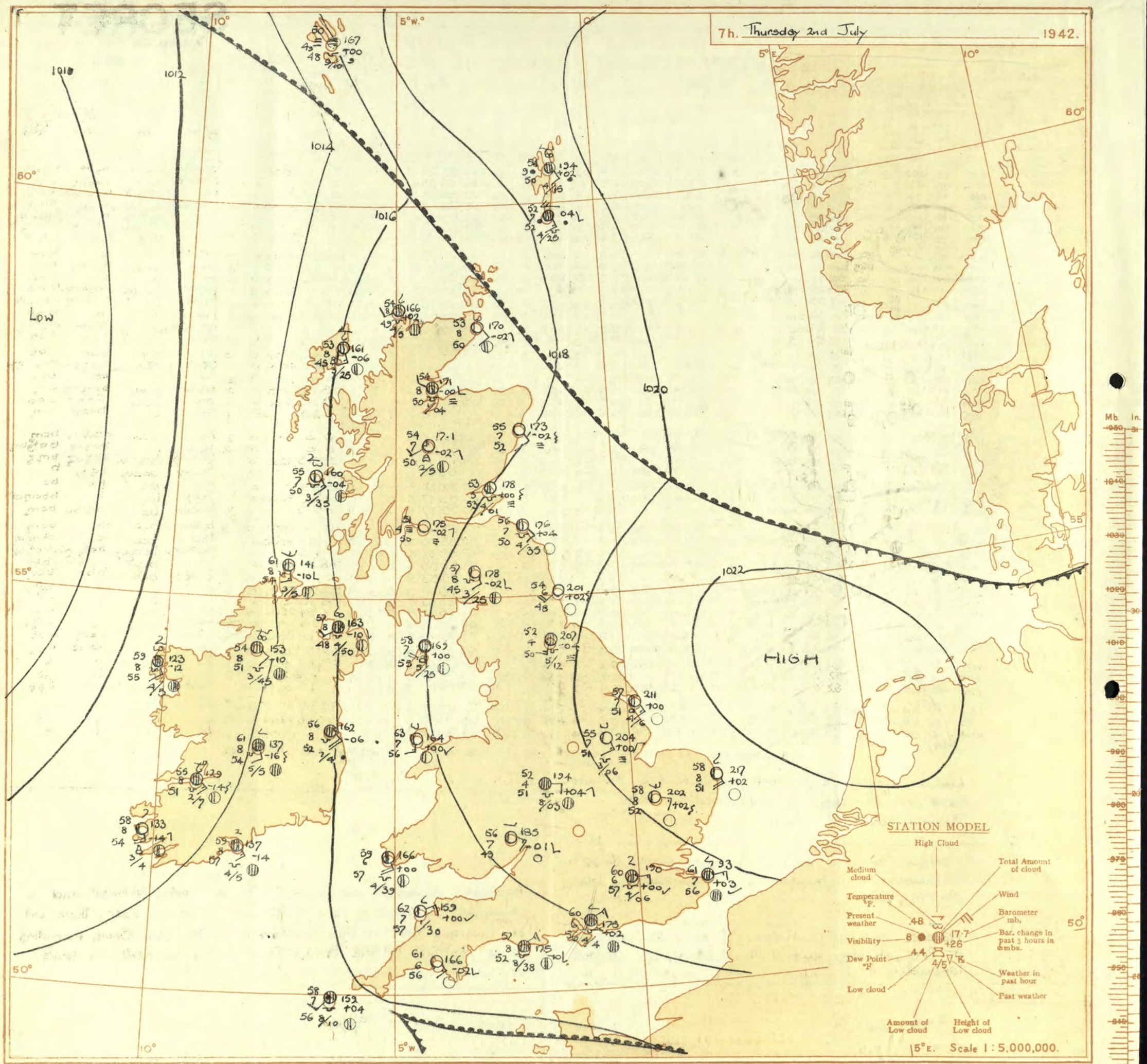
FURTHER OUTLOOK

Showery type of weather.

Forecasts issued at 10·30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Thursday 2nd July 1942.



H.M.S.O. Press. Meteorological Office. Dunstable

C. 364/4288. Nz. 8144. D. 2560. Gp. 948/2. 10075. 7/42

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.

BRITISH SECTION

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

Thursday 2nd July 1942

No. 29442

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)	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	*	*	*	*	*	56	*	*	*	*	*	*	*	*	*
	Croydon	290	19.8	+2	ENE	3	z	55	92	53	6	5	-	-	10	10	800
	S. Farnborough	226	19.5	+2	ENE	2	z	58	92	51	6	5	-	-	7-8	7-8	1000
	Boscombe Down	417	19.3	+8	E	4	z	54	85	50	6	5	-	-	1	1	4000
	Thorney Island	10	18.5	0	NE'N	2	b	54	85	51	7	-	-	-	0	0	-
	Lympne	283	20.2	+2	NNE	3	z	56	97	55	6	5	-	-	Tr	Tr	1200
	Manston	154	19.7	-2	ENE	3	z	56	97	56	6	5	-	-	4-6	4-6	200
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	20.5	-2	ENE	2	c	57	92	54	7	5	-	-	9	9	2900
	Gorleston	5	21.7	0	E'S	4	b	57	85	52	7	-	4	-	0	1	-
	Mildenhall	15	20.8	-4	NE'E	2	bf+	47	92	47	3	-	-	-	0	0	-
	Cranwell	203	21.3	+2	ESE	2	bf+	47	97	47	2	-	-	-	0	0	-
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19.9	+2	E'N	3	z	53	85	49	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17.2	+2	SSE	3	c	60	92	57	6	5	-	8	4-6	7-8	1500
	Bristol	209	19.3	+6	-	0	m	57	92	55	4	5	3	-	Tr	1	2500
	Portland Bill	32	17.9	-14	E	2	bc	58	85	54	8	1	-	-	4-6	4-6	4000
	Plymouth	82	17.5	-4	ESE	2	z	58	85	52	6	-	-	-	0	0	-
	The Lizard	240	17.0	0	E'N	4	m	57	97	57	4	5	-	-	7-8	7-8	1000
	Scilly (St. Mary's)	163	16.5	-2	E	3	%f	59	97	58	5	5	-	1	10	10	500
	Guernsey	175															
6	Pembroke	142	17.3	-2	SE	5	b	58	97	58	6	-	-	-	0	0	-
7	Holyhead (Valley)	32	17.0	-2	-	0	z	54	85	51	6	5	-	-	4-6	4-6	4000
	Chester (Sealand)	16	19.3	+6	SE	2	bc	57	75	48	6	5	3	-	2-3	4-6	4000
8	Manchester	235	19.6	+6	-	0	bc	52	75	45	7	-	3	-	0	2-3	-
10	Spurn Head	29	21.8	+2	SE	3	bc	55	85	49	7	-	4	-	0	2-3	-
	Catterick	175	21.5	+2	S	2	b	50	85	46	8	-	-	-	0	0	-
	Tynemouth	108	20.7	+2	SSE	4	bc	55	65	45	6	5	-	-	4-6	4-6	2500
11	St. Abbs Head	280	18.9	-4	SSW	4	bc	54	85	48	7	5	-	-	2-3	2-3	4000
	Leuchars	36	18.1	-6	-	0	c	52	97	52	7	-	7	8	0	7-8	-
12	Renfrew (Abbots I.)	19	17.8	-2	-	0	m	48	92	46	4	-	7	1	0	4-6	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	17.9	0	S	1	bc	58	85	51	7	4	3	-	1	2-3	3000
13A	Tiree	22	17.8	-6	S	1	bc	49	92	47	8	5	3	-	2-3	2-3	3500
13B	Stornoway	80	17.5	-12	-	0	c	50	97	50	7	5	7	-	7-8	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	19.1	-10	SSE	2	c	51	97	50	8	5	7	-	9+	10	1000
	Wick	114	18.9	-14	ESE	2	%	51	92	50	8	5	7	-	2-3	10	4500
16	Sumburgh	19	19.9	0	W'N	2	c	49	97	49	7	5	4	2	4-6	7-8	3000
17	Blacksod Point	18	15.3	-10	S'W	4	c	59	85	55	8	5	-	-	9+	9+	2500
18	Malin Head	84	16.4	-10	S	1	bc	54	85	50	8	4	-	-	2-3	2-3	2500
	Aldergrove	268	17.0	0	-	0	b	46	92	43	7	5	-	-	1	1	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	16.2	-8	ENE	1	c	55	97	54	8	5	-	-	9	9	4000
	Roches Point	22	16.3	-12	E'S	2	bc	54	97	53	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 2nd 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)	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 1st Hrs. (38)
London (Kew)	18.2	-2	ENE	3	z	60	85	56	5	5	-	-	10	10	2500	1	*	73	56	49	-	-	7.6
Croydon	19.0	0	ENE	3	c	60	85	57	6	5	-	-	4-6	9+	900	0	*	72	54	51	-	-	8.6
S. Farnborough	18.3	0	E'N	3	z	60	85	55	6	5	-	-	10	10	400	0	*	74	53	48	-	-	6.3
Boscombe Down	18.6	-2	ENE	3	z	57	92	54	6	5	-	-	7-8	7-8	800	0	*	71	51	49	-	-	1.1
Thorney Island	17.5	0	NE	3	z	60	85	56	6	5	1	-	4-6	10	1500	0	*	69	53	45	-	-	*
Lympne	19.3	+2	ENE	3	c	61	85	56	7	-	4	2	0	9	-	0	§3	66	53		-	-	3.8
Manston	18.9	+2	E'S	3	z	59	97	59	6	5	3	-	7-8	9	800	0	*	(61)	55	51	-	-	5.7
Shoeburyness	19.5	+4	E	3	c	61	85	55	7	5	1	-	4-6	7-8	1500	0	*	65	52	46	-	-	7.9
Felixstowe	20.9	-10	E	2	c	61	75	54	7	-	7	6	0	9	-	0	1	63	55		-	-	
Gorleston	21.7	+2	SE	4	bc	58	85	51	8	-	4	-	0	2-3	-	0	4	59	56	54	-	-	9.0
Mildenhall	20.2	+2	E'S	3	bc	58	85	52	8	-	-	2	0	2-3	-	0	*	81	45	*	-	-	12.3
Cranwell	20.4	0	SE	3	bc	55	85	51	7	5	3	-	2-3	2-3	600	0	*	*	44	40	-	-	12.0
Birmingham	19.6	-4	SE	3	m	51	97	50	4	5	-	-	10	10	800	0	*	73	49	45	-	-	8.1
Upper Heyford	19.6	+2	E	3	m/f	53	97	53	4	5	-	-	10	10	300	0	*	74	49	45	Tr	-	*
Ross-on-Wye	18.5	-4	E'N	3	b	56	75	49	7	-	-	1	0	Tr	-	0	*	75	53	48	-	-	6.4
Hartland Point	15.9	0	NE	3	bc	62	85	57	7	-	4	-	Tr	2-3	3000	0	3	71	56	54	-	-	7.0
Bristol	19.0	-2	E	2	z	55	92	53	6	5	-	-	10	10	600	0	*	75	51	41	-	-	5.7
Portland Bill	17.5	-10	NE	3	c	57	85	53	8	5	-	-	10	10	4000	1	2	62	54	*	-	-	*
Plymouth	16.6	-2	ESE	3	z	61	85	56	6	-	-	-	0	0	-	0	2	72	56	52	-	-	8.6
The Lizard	16.2	-2	ESE	3	z	57	97	57	6	5	-	-	10	10	1500	0	3	68	56	*	-	-	13.0
Scilly (St. Mary's)	15.9	+4	SSW	2	c	58	92	56	7	5	-	-	10	10	1000	0	2	68	57	*	-	-	14.4
Guernsey																							
Pembroke	16.6	0	SE	4	z	59	97	57	6	5	-	-	4-6	4-6	3900	0	2	70	51	*	-	-	12.3
Holyhead (Valley)	16.4	0	S	3	bc	63	75	56	7	-	3	-	0	2-3	-		2	66	58	49	-	-	*
Chester (Sealand)	18.6	-4	SE	2	b	55	85	50	6	-	3	-	0	1	-	0	*	75	51	47	-	-	11.5
Manchester	19.2	-2	SE	1	b	57	75	47	8	-	-	-	0	0	-	0	*	73	49	42	-	-	*
Spurn Head	21.1	0	SE'E	3	bc	57	85	51	7	1	-	-	4-6	4-6	4000	0	3	57	53	*	-	-	11.6
Catterick	20.7	-4	S	3	m	52	92	50	4	5	-	-	7-8	7-8	1200	0	*	73	46	42	-	-	10.4
Tynemouth	20.1	+2	SSW	4	z	54	85	48	6	-	-	-	0	0	-	0	2	61	51	49	-	-	*
St. Abbs Head	17.6	+4	SE	1	bc	56	85	50	7	5	-	-	4-6	4-6	3500	0	2	63	51	*	-	-	*
Leuchars	17.8	0	-	0	z	53	97	52	5	5	-	-	4-6	4-6	100	0	*	66	47	43	-	-	9.2
Renfrew (Abbots I.)	17.5	-2	-	0	m	51	92	50	4	-	-	-	0	0	-	0	*	70	43	37	-	-	7.3
Eskdalemuir	17.8	-2	SSE	2	bc	57	75	55	8	5	-	-	2-3	2-3	2500	0	*	71	49	43	-	-	9.4
Point of Ayre	16.9	0	S'W	4	c	58	92	55	7	8	-	6	7-8	9	2500	0	3	62	49	*	-	-	13.5
Tiree	16.0	-4	ESE	3	bc	55	85	52	7	5	3	6	2-3	2-3	3500	0	3	58	46	*	-	-	2.0
Stornoway	16.1	-6	SSE	3	bc	53	92	50	8	2	4	5	2-3	4-6	2500	1	2	60	49	*	-	-	0.3
Dalwhinnie	17.2	-2	SW	1	b	54	85	50	7	2	-	-	1	1	2500	0	*	65	49	32	-	-	3.6
Aberdeen †	17.6	-2	WSW	1	z	55	85	52	6	-	-	-	0	0	-	1	2	66	50	45	-	-	7.7
Wick	17.0	-2	ESE	1	bc	53	92	50	8	-	3	-	0	2-3	-	0	*	60	49	47	Tr	Tr	*
Sumburgh	19.3	-6	SE	3	∩∩	52	97	52	7	5	2	-	4-6	10	2500	1	2	55	48	42	-	1	4.0
Blacksod Point	12.3	-12	SE	2	c	59	85	55	8	5	3	6	4-6	7-8	2500	0	2	65	55	*	-	-	*
Malin Head	14.1	-10	S'E	3	bc	61	75	54	8	5	-	2	2-3	4-6	2500	0	2	57	52		-	-	7.3
Aldergrove	16.3	-10	SE	1	c	57	75	48	8	5	7	-	4-6	9	5000	0	*	68	42	34	-	-	9.9
Birr Castle	13.7	-16	SSE	1	c	61	75	53	8	5	1	-	7-8	10	2500	0	*	72	52	46	-	-	12.8
Valentia Obsy.	13.3	-14	SSE	4	bc	58	85	53	8	2	-	4	2-3	2-3	1500	0	3	67	46		-	Tr	1.5
Roches Point	13.7	-14	E	3	c	59	92	57	8	5	-	5	4-6	7-8	2500	0	2	65	54	*	-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 1st July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 2nd July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	8-	02845	25255	87	02854	00025	52	62861	09268	57	02845	13327
115							52	02844	08227	54	02854	20225
203												
206	83	02963	08228	83	02865	08327	07	02890	00025	5-	00821	24141
210	23	02962	02328	83	10864	05426	03	02790	16227	50	09602	16112
220				51	02854	23118				59	02952	14217
230	77	02963	20117	17	02963	18128	54	01863	00013	53	00861	00012
245	80	02962	14315	17	02961	14228	57	01861	04225	00	00790	24112
260	01	01873	05314	73	02863	05316	50	02654	05314	04	05690	06114
278	13	01961	31314	00	01990	32325	04	00890	00001	53	01751	10213
279	10	05661	26211	00	05690	23100	53	05663	15224	20	05664	04114
285	20	01855	12415							00	00890	08300
288	13	01864	03314	00	01990	13414	00	00890	18210	10	00861	19301
575	13	01963	00014	10	01963	00013	07	00790	00001	57	02863	10125
301	00	05690	26201	10	05661	30201	53	05652	12314	03	05690	12401
321	13	02862	10415	50	00971	10411	00	05690	14200	5-	41604	12144
299	50	01763	06203	04	00790	12302	00	00790	16100	50	00761	16201
292	10	01864	14214	10	00861	12301	00	05690	00000	5-	42527	14147
310	--	01635	04415							--	48109	04419
614	10	05673	06113	00	00790	10210	00	05690	04100	5-	08428	10148

III	13h. G.M.T. 1st July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 2nd July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	10	00861	30301	00	00790	28200	06	02790	25218	5-	02757	13317
334	--	05562	10203							--	95590	28102
340	10	05661	14301	10	00761	10401	00	00890	12300			
136	53	01743	03314	50	01841	06411	00	04690	06100	00	01890	08202
336	10	01754	12314	50	01753	12313				50	01753	12313
350	17	01751	05314	00	00790	04402	00	17690	07300	5-	43328	07358
368	13	01654	05324	10	01651	12313	00	05590	00000	00	05690	06301
379	10	01744	06315	10	00751	10311	03	05690	10214	--	46209	08349
390	10	05654	06314	00	10790	07313	50	05633	07213	54	05636	06327
382	17	01754	08125	70	01764	06204	03	05690	06102	5-	05638	07128
438				00	00790	04310	00	01790	32414	51	02644	04416
430	5-	05655	04328	00	00790	12110	00	05690	08300	5-	02735	04328
409	50	01644	31214	5-	05645	11225	00	00690	10300	00	00790	12400

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	cm.cy	bcby	bybc	Kew 24 hours ended 7h.
Croydon	cm.bcb	byb	bwcm.	Max 0.1 Time 7-15h 1st
Greenwich	cbcz.	bz.	bcz.	Min. <0.1 Time 16-24h 1st
Camden Square	c	c	*	
Kensington	bcc	bbcz	*	
Hampstead	bc	c	c	

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	73	55	49	-	-	7.6	*	*
Croydon	72	54	51	-	-	8.6	*	*
Greenwich	71	54	46	-	-	8.3	61	76
Westminster	72	56	53	-			67	81
Regents Park	73	54	51	-	-		59	77
Camden Square	75	54	50	-	-	*	*	75
Kensington	74	55	51	-	-			76
Hampstead	71	56	50	-	-		*	80

SECRET

Page 1 BRITISH SECTION

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

Friday 3rd July 1942

No. 29443

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)	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)	17·6	0	E'N	3	zo	71	65	59	6	2	5	5	4-6	4-6	4000
	Croydon	17·9	0	ENE	3	c	70	75	62	7	5	7	6	4-6	10	3000
	S. Farnborough	17·3	-2	E'S	3	zo	75	65	61	6	8	7	-	7-8	7-8	1500
	Boscombe Down	17·2	-6	SE'S	4	zo	74	65	62	6	5	-	-	4-6	4-6	2500
	Thorney Island	17·2	-2	ESE	3	bc	74	65	60	6	2	3	-	Tr	4-6	2500
	Lympne	18·7	+2	NE	2	c	69	65	57	7	-	1	7	0	10	-
	Manston	18·6	+2	E'N	3	zo	65	75	58	6	-	-	6	0	9+	-
2	Shoeburyness	19·6	+4	E	3	c	64	75	56	7	-	7	-	0	9+	-
	Felixstowe	19·9	+2	E'N	3	c	63	75	54	8	-	1	6	0	9+	-
	Gorleston	21·2	+2	ESE	3	c	59	85	54	8	-	7	1	0	7-8	-
	Mildenhall	18·6	-2	SE	4	c	72	55	50	8	1	7	2	Tr	9	2500
	Cranwell	17·8	-12	ESE	5	c	71	65	57	7	1	-	8	2-3	7-8	2000
3	Birmingham	17·5	-10	SSE	2	bc	68	65	56	7	7	-	4	4-6	4-6	4000
	Upper Heyford	17·2	-10	SE'S	2	zo	74	65	60	6	8	-	8	7-8	9	3000
4	Ross-on-Wye	17·1	-10	S	3	zo	69	75	60	6	1	-	-	4-6	4-6	3000
5	Hartland Point	16·3	+10	WNW	3	bc	63	85	57	7	2	4	-	2-3	2-3	3000
	Bristol	17·4	-10	SSE	3	zo	73	65	61	0	1	-	-	9	9	1500
	Portland Bill	17·2	+2	SSW	3	c	62	85	59	7	5	-	-	7-8	7-8	4000
	Plymouth	16·8	+6	E	3	zo	69	75	59	7	5	3	-	2-3	2-3	2500
	The Lizard	17·2	+10	WSW	2	o	60	92	58	8	5	-	-	10	10	1500
	Scilly (St. Mary's)	16·7	+6	SW	3	bc	65	75	56	8	8	-	8	4-6	4-6	1500
	Guernsey															
6	Pembroke	16·6	+6	SSW	3	c	58	92	55	6	5	2	-	7-8	10	4000
7	Holyhead (Valley)	14·4	-10	S	3	bc	74	55	55	8	2	-	2	Tr	4-6	3000
	Chester (Sealand)	16·1	-14	ENE	3	zo	72	55	56	6	-	-	-	0	0	-
8	Manchester	16·3	-18	SSE	4	b	73	45	50	7	-	-	-	0	0	-
10	Spurn Head	19·6	-10	ESE	5	bc	59	85	53	7	4	4	-	4-6	4-6	4000
	Catterick	17·5	-16	SSE	4	zo	71	45	51	6	-	-	-	0	0	-
	Tynemouth	18·2	-8	SE	4	b	58	75	50	8	-	-	-	0	0	-
11	St. Abbs Head	17·2	-6	SE	4	b	61	75	54	7	5	-	-	1	1	3500
	Leuchars	15·7	-10	ESE	2	zo	67	75	59	6	-	-	-	0	0	-
12	Renfrew (Abbots I.)	15·1	-12	SSW	2	c	67	65	54	6	5	2	-	4-6	10	3000
	Eskdalemuir	14·5	-18	SSW	3	bc	71	65	57	7	8	-	-	2-3	2-3	3200
	Point of Ayre	15·3	-16	S	4	zo	67	75	58	6	-	3	-	0	4-6	-
13A	Tiree	12·9	-22	SE'E	4	c	58	75	51	7	5	-	-	9+	9+	2500
13B	Stornoway	14·3	-8	ESE	1	c	64	75	57	8	5	4	8	2-3	7-8	3000
15	Dalwhinnie	14·9	-6	SW	3	bc	70	55	52	7	8	4	-	2-3	4-6	2500
	Aberdeen	15·9	-4	SSW	3	zo	63	65	50	6	-	-	-	0	0	-
	Wick	15·8	-8	ESE	1	zjf	56	85	52	9	8	3	4	1	4-6	4000
16	Sumburgh	18·2	-6	SE	4	c	55	85	52	7	5	-	-	10	10	2000
17	Blacksod Point	09·3	-10	S	5	c	63	65	56	8	8	3	6	4-6	9	2500
18	Malin Head	10·4	-26	S	4	c	67	75	59	7	5	2	2	4-6	7-8	450
	Aldergrove	13·2	-16	SE'S	4	zo	67	75	57	6	8	8	-	7-8	9+	2500
19	Birr Castle	11·7	-10	SE	3	c	68	65	56	8	5	2	-	7-8	10	2500
20	Valentia Obsy.	11·9	-2	S	5	r₀f₀	61	85	56	6	5	2	-	7-8	10	1500
	Roches Point	13·4	0	S	3	bc	64	75	56	8	5	-	5	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 2nd 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. (39)	Weather 13h.–18h. (40)	Weather 18h. to 1h. (41)	Weather 1h.–7h. (42)
London (Kew)	16·5	-6	E'N	3	bc/tlr₀	71	65	56	6	3	-	3	4-6	4-6	4000	1	*	bbcz₀	bctpr₀	bm₀w	bccir₀c
Croydon	16·6	-8	ENE	3	c	69	75	59	7	9	-	-	4-6	7-8	1800	0	*	cm₀c	c	cbcb	
S. Farnborough	15·6	-4	S'E	3	zo	76	55	58	6	8	-	-	1	1	2500	0	*	fz₀	bcz₀y	bcz₀m₀	bccd₀bc
Boscombe Down	16·0	-6	SSW	4	bc	73	65	58	8	3	8	3	1	2-3	3000	0	*	cbc	bc	bbccm₀	cm₀bcc
Thorney Island	16·5	-6	SSE	2	zo	71	65	60	7	2	-	3	Tr	Tr	4000	0	*	cbcm₀	bm₀b	bcbm	cid₀bc
Lympne	17·7	-6	ENE	1	b	70	59	55	8	-	4	8	0	1	-	0	3	cm₀⊕	cbcby	bybw	bwm₀f
Manston	17·3	-6	E'N	2	b	67	75	58	9	-	3	3	0	2-3	-	0	*	bcm₀cz₀⊕	cz₀c	bvb	bm₀w
Shoeburyness	17·9	-10	E'N	2	bc	64	85	56	8	5	3	-	Tr	2-3	5000	0	*	c	cbc		
Felixstowe	18·0	-6	E	3	c	62	75	58	8	-	9	-	0	7-8	-	0	1	c	c	cbcbw	bwbbc
Gorleston	19·0	+18	ESE	3	c	60	85	54	8	-	9	-	0	9	-	0	3	bcc	c	cbcb	bcc
Mildenhall	17·4	-4	SE'E	4	bc	68	55	51	8	-	7	2	0	7-8	-	0	*	bcy	cy	bcybcb	bbcm₀
Cranwell	16·7	-4	SE	5	bc	69	55	52	7	-	7	-	0	4-6	-	0	*	bc	cbc	b	bcm₀
Birmingham	14·8	-14	SSW	2	bc	75	65	63	8	2	-	-	4-6	4-6	4000	0	*	ombc	bc		bcc
Upper Heyford	15·2	-10	E	3	zo	74	65	61	6	2	-	•	9	9	2200	0	*	cmcm₀cz₀	bcz₀cz₀	cbcz₀cm₀	cm₀c
Ross-on-Wye	14·7	-10	WSW	3	bc	75	65	60	7	2	-	-	0	1	4000	0	*	bbcc	bcy	bccz₀	cbcc
Hartland Point	16·1	0	SW	4	c/r	58	85	54	8	5	-	-	9	9	1500	0	3	bc	bcc	cbc	id ir₀c
Bristol	16·2	-4			bc	74	65	63	7	2	3	-	2-3	2-3	2000	0	*	cir₀cz₀	cir₀bc	bccm₀c	cbcc
Portland Bill	17·0	0	S	3	c	61	92	59	7	5	-	-	7-8	7-8	4000		2	c	bcc	cc	c
Plymouth	17·1	-2	SW	2	zo	61	85	58	6	5	-	-	9	9	1500	0	2	bcz₀	bcm₀jf	bccbc	bcir₀cm₀
The Lizard	17·7	0	W'S	3	bc	61	85	57	8	2	9	-	4-6	4-6	3500	0	3	bdfo	cbc	cw	cpr₀c
Scilly (St. Mary's)	17·2	-2	SW'S	3	c	62	85	56	8	5	4	4	2-3	7-8	1800	0		bc	bcz	cod	id₀oir₀
Guernsey																					
Pembroke	16·3	0	SW	5	c	59	92	57	7	2	4	3	2-3	7-8	3000	0	2	bccm₀	c	c	cr₀r₀m₀
Holyhead (Valley)	14·4	0	S'W	4	c	59	85	55	7	5	-	-	10	10	1500	0	2	bcbz₀bc	bccm₀	cm₀	cm₀d₀d₀r₀
Chester (Sealand)	13·9	-12	S'E	1	zo	74	65	60	6	2	-	-	9	9	2000	0	*	bz₀y	bz₀ycz₀	cz₀cm₀	cm₀ir₀
Manchester	14·2	-16	S	4	bc/d	77	45	55	7	1	-	1	2-3	2-3	4000	0	*	by	bz₀y	bcm₀y	cbcm₀
Spurn Head	17·5	-4	ESE	6	c	59	85	53	7	8	-	-	4-6	9+	4000	0	4	bc	c	c	cm₀
Catterick	14·8	-16	SE	4	b	73	55	57	7	-	-	-	0	0	-	0	*	bz₀	bczyby	bcm₀	bcm₀cm₀
Tynemouth	15·9	-12	SE	5	b	58	85	52	7	-	-	-	0	0	-	0	3	bz	b	bbcc	cm₀
St. Abbs Head	13·5	-2	SE	5	bc	57	85	53	7	5	-	-	4-6	4-6	3500	0	5	bm₀	bm₀bcm₀	bcbcm₀	bcm₀cm₀
Leuchars	12·6	-20	NE	2	bc	64	85	59	7	2	-	6	2-3	2-3	2500	0	*	bm₀	bz₀bcz₀	bccm₀	bcm₀cbc
Renfrew (Abbots I.)	11·6	-20	SSW	3	zo	72	35	42	7	-	7	-	0	4-6	-	0	*	bcz₀cz₀	cbcz₀y	cz₀	cz₀ir₀m₀
Eskdalemuir	12·2	-14	WSW	3	bc	68	65	54	6	8	-	2	Tr	4-6	3600	0	*	bcbbc	bcybc	bcm₀	bcm₀c
Point of Ayre	13·0	-12	WSW	4	c	70	65	58	8	4	3	8	Tr	7-8	3000	0	3	cbcz₀	bcz₀c	c	cir₀
Tiree	09·5	-10	SE'S	3	zo	59	85	58	6	5	-	-	9+	9+	1800	0	4	bcc	cz₀	ovR	ovr₀c
Stornoway	10·3	-14	ENE	3	qpr	59	92	56	8	5	7	-	7-8	10	2500	1	1	c	cpr₀	cp₀	cvv
Dalwhinnie	12·4	-18	SSE	3	o	66	65	55	7	5	1	-	9	10	2500	a	*	bbcy	bco		c
Aberdeen	14·6	-10	S'E	4	bc	58	75	50	7	5	-	-	2-3	2-3	3800	0	2	bz₀	bz₀	bbcc	cz₀w
Wick	13·6	-14	SE	2	ir₀	55	85	51	6	5	9	-	7-8	10	5000	0	*	bbcz₀fbc	cir₀jf	cir₀	cm₀
Sumburgh	15·6	-14	SE	5	c	54	92	53	7	5	-	-	7-8	9+	800	0	2	cir₀c	cpr₀cjp	cir₀cm₀	cir₀c
Blacksod Point	08·0	-6	S'W	2	rr	55	97	54	7	-	2	-	10	10	800	1	2	c	r	r	r
Malin Head	08·7	-4	S	4	c	66	65	54	8	5	2	-	7-8	10	2600	0	2	bc	c	r	r
Aldergrove	10·5	-10	SSE	4	zo	65	75	57	6	2	7	8	2-3	7-8	4000	0	*	crrcm₀	cz₀bcz₀	ccir₀m₀	cir₀m₀r₀c
Birr Castle	06·8	-4	S	3	c	65	65	53	8	8	7	-	7-8	9	1800	0	*	c	c		
Valentia Obsy.	09·9	-10	S'W	3	1r	60	97	59	6	5	-	-	10	10	800	1	4	r	pr	r	r
Roches Point	12·6	-10	S	5	c/d	62	92	60	7	5	-	-	9+	9+	1500	0	4	d	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 3rd July 1942.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light or moderate Southwest wind; cloud increasing; local thunderstorms this afternoon; occasional rain tonight. Rather warm.
4 W. Midlands	Moderate Southwest wind, cloudy; occasional rain today, bright periods later; average temperature.
5 S.W. England, 6 South Wales	Moderate or fresh Southwest wind veering West later, much low cloud with rain or drizzle at first, and some coast fog, bright periods later; average temperature.
7 North Wales, 8 N.W. England, 9 N. Midlands	As 5-6
10 N.E. England, 11 S.E. Scotland	Moderate Southwest wind, mainly cloudy, some rain; average temperature or rather warm.
12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland	Moderate or fresh South wind veering West later; cloudy with rain at first, bright periods and occasional showers later; average temperature.
15 N.E. Scotland, 16 Orkneys and Shetlands	Moderate Southeast wind, mainly cloudy; rain later; average temperature.
17 N. W. Ireland	Light or moderate West wind, bright periods; occasional showers; average temperature.
18 N. E. Ireland, 19 S. E. Ireland	Moderate South wind, cloudy with rain at first; as 17 later.
20 S. W. Ireland	As 17.

GENERAL INFERENCE

A depression centred South of Iceland; and an associated trough over West Ireland are moving slowly East. Rain and low cloud now over Western districts will spread East and Northeast, but the falls are not likely to be large. Local thunderstorms.

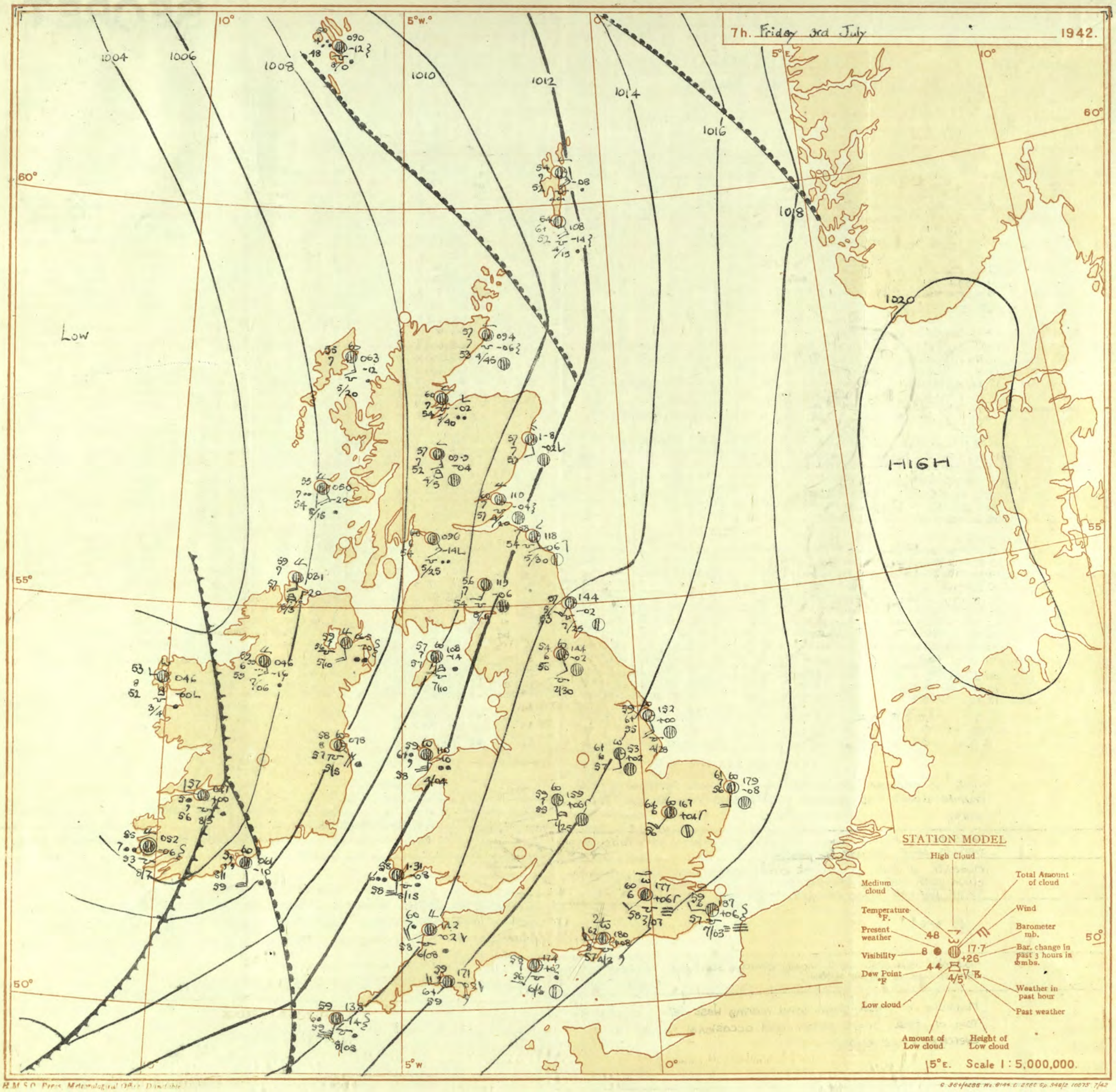
FURTHER OUTLOOK

Bright periods generally but some showers.

Forecasts issued at 10·30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday 3rd July 1942.



H.M.S.O. Press, Meteorological Office, 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).

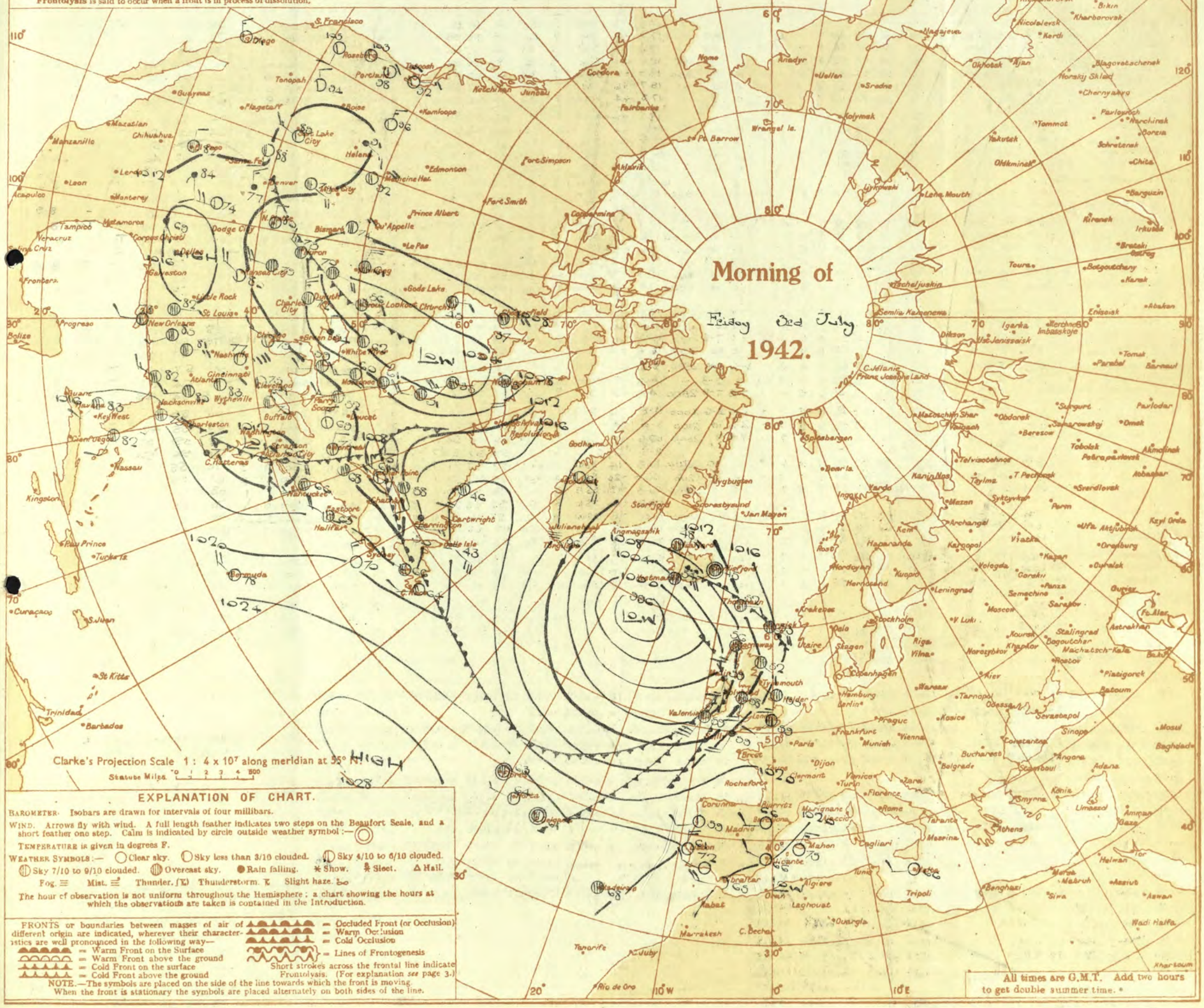
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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. Show. 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.

BRITISH SECTION

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

Friday 3rd July 1942

No. 29443

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)	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	*	*	*	*	*		*	*	*	*	*	*	*	*	*
	Croydon ...	290	17·2	-4	S'E	3	b	61	85	50	7	-	4	-	0	2-3	-
	S. Farnborough	226	17·3	+2	SSW	2	Z_0	59	85	56	6	-	7	-	0	4-6	-
	Boscombe Down	417	17·7	+2	SSW	3	Z_0	58	87	55	5	5	-	-	10	10	100
	Thorney Island	10	17·6	-4	SW'W	2	m/f	59	97	57	4	5	-	-	10	10	400
	Lympne ..	283	18·6	-2	-	0	b	55	92	52	7	-	-	-	0	0	-
	Manston ...	154	17·6	0	-	0	b	55	92	53	7	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	17·3	-8	E'N	1	b	50	92	46	7	-	-	-	0	0	-
	Gorleston ...	5	18·2	-4	S'E	3	b	59	85	53	7	-	4	-	0	1	-
	Mildenhall ...	15	17·1	-6	SE'S	2	b	55	85	51	7	-	-	-	0	0	-
	Cranwell ...	203	15·9	-8	SE'S	3	b	56	85	51	7	-	3	-	0	2-3	-
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	16·8	+4	SW'S	3	Z_0	63	92	59	6	5	-	-	10	10	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	15·6	-8	SW	4	bc	59	85	55	7	-	4	-	0	4-6	-
	Bristol ...	209	17·9	+2	WSW	2	c	59	85	55	7	5	-	-	10	10	2900
	Portland Bill ...	32	17·3	-4	W	3	c	57	92	55	7	5	-	-	10	10	4000
	Plymouth ...	82	18·1	-2	W	1	bc	58	97	58	7	5	-	-	2-3	7-8	1000
	The Lizard ...	240	17·4	-4	SW	3	c	59	97	58	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	163	16·4	-8	S'W	4	d	59	97	58	5	5	-	-	10	10	450
	Guernsey ...	175															
6	Pembroke ...	142	15·2	-10	S'W	5	c	57	97	56	7	8	6	-	7-8	9	4000
7	Holyhead (Valley)	32	13·4	-12	S	4	Z_0	58	92	55	6	5	3	-	4-6	10	1000
	Chester (Sealand)	16	14·6	-4	SW	1	bc	61	85	56	6	5	3	6	4-6	7-8	2000
8	Manchester ...	235	14·9	-2	S'E	2	Z_0	62	85	58	6	5	-	-	10	10	3200
10	Spurn Head ...	29	16·7	-8	SSE	4	c	59	85	55	7	5	3	-	4-6	7-8	2500
	Catterick ...	175	18·0	-6	S	2	Z_0	57	85	53	6	-	3	1	0	2-3	-
	Tynemouth ...	108	18·3	-4	S	3	Z_0	59	92	53	6	5	-	-	7-8	7-8	2800
11	St. Abbs Head	280	12·8	-14	SSE	2	Z_0	58	92	56	6	5	-	-	4-6	4-6	4000
	Leuchars ...	36	11·9	-6	WNW	1	Z_0	57	97	56	6	5	7	-	4-6	10	2100
12	Renfrew (Abbotsinch)	19	11·6	-2	SSE	2	Z_0	60	75	53	6	5	7	-	7-8	9	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	12·9	-4	SW	3	c	57	97	55	7	4	4	7	1	10	2500
13A	Tiree ...	22	09·3	-4	ESE	2	rr	57	97	57	6	-	2	-	10	10	1200
13B	Stornoway ...	80	08·3	-4	SSW	3	c/pr	56	97	55	7	5	7	-	7-8	10	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	11·6	-14	SE	3	Z_0	52	92	51	8	5	7	8	4-6	9+	4000
	Wick ...	114	10·8	-14	SSE	2	Z_0	54	85	51	6	5	7	-	4-6	9	4000
16	Sumburgh ..	19	13·4	-14	SE	4	c	53	92	51	6	5	7	-	4-6	10	3000
17	Blacksod Point	18	09·8	-22	-	0	DD	52	92	50	7	-	2	-	10	10	800
18	Malin Head ...	84	07·6	-12	S	3	rr	59	92	57	6	-	2	-	10	10	1500
	Aldergrove ...	268	10·5	-2	SSE	3	r_0	59	85	56	6	5	-	-	10	10	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	06·0	-22	SSW	5	r_0r_0	55	97	58	6	6	-	-	10	10	800
	Roches Point	22	09·3	-24	S	5	rr	59	97	58	7	6	2	-	7-8	10	800

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)	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)	17·4	-6	SW	2	Z_0	61	85	58	·	3	3	1	4-6	7-8	2500	1	*
	Croydon ...	17·7	+6	SW	2	Z_0	60	92	58	6	5	3	1	2-3	7-8	700	0	*
	S. Farnborough	17·6	+6	SW'S	3	bc	60	75	54	8	7	7	4	4-6	7-8	1800	0	*
	Boscombe Down	18·0	+6	S'W	3	c	59	85	55	7	5	7	-	7-8	10	900	0	*
	Thorney Island	18·0	+8	SW'W	3	bc	62	85	57	8	5	5	6	4-6	7-8	800	0	*
	Lympne ..	18·7	+6	W	1	c/f	59	92	57	6	5	-	-	9+	9+	300	0	§2
	Manston ...	17·3	+4	WNW	2	Z_0	63	85	59	6	2	3	-	2-3	7-8	5700	0	*
2	Shoeburyness ...	17·5	+6	WSW	3	c	62	85	58	6	5	-	-	10	10	1300	0	*
	Felixstowe ...	17·1	+4	S	2	bc	64	85	61	8	-	7	1	0	7-8	-	0	1
	Gorleston ...	17·9	-8	S'W	4	bc	61	85	56	7	-	7	-	0	7-8	-	0	
	Mildenhall ...	16·7	+4	SW'S	3	Z_0	64	75	56	6	-	7	-	0	10	-	0	*
	Cranwell ...	15·3	+2	S'E	2	Z_0	61	85	58	6	-	3	-	0	9+	-	0	*
3	Birmingham ...	15·5	0	SSW	3	c	58	85	54	7	-	7	8	0	10	-	0	*
	Upper Heyford	16·8	+6	SSW	2	c	59	85	54	8	1	7	9	Tr	9+	2500	0	*
4	Ross-on-Wye	15·8	-6	S	3	c	59	85	54	7	5	1	-	2-3	10	2500	0	*
5	Hartland Point	14·2	-2	SW	4	r_0	60	92	58	7	5	2	-	9	10	1800	1	4
	Bristol ...	17·0	-2	SSE	3	c	60	85	55	8	5	7	-	4-6	9+	1300	0	*
	Portland Bill ...	17·4	+2	SSW	3	c	58	92	56	7	5	-	-	9	9	4000	0	2
	Plymouth ...	17·1	-2	SW	3	r_0	59	97	59	6	5	-	-	10	10	800	1	2
	The Lizard ...	15·5	-8	SW	4	o	59	97	59	7	5	-	-	10	10	1500	0	4
	Scilly (St. Mary's)	13·8	-14	SSW	5	r_0	59	97	59	6	5	-	-	10	10	500	1	3
	Guernsey ...																	
6	Pembroke ...	13·1	-8	S'W	6	r_0r_0	58	97	58	6	5	-	-	10	10	1500	1	3
7	Holyhead (Valley)	11·0	-10	S	5	dr	59	97	58	6	6	7	-	4-6	10	400	1	3
	Chester (Sealand)	13·8	-4	SSE	2	r_0	57	85	53	6	5	2	-	1	10	2000	0	*
8	Manchester ...	14·4	+2	S'E	3	c	59	75	51	6	5	1	-	2-3	10	4000	0	*
10	Spurn Head ...	15·2	0	S'E	3	c	59	85	55	6	5	7	-	4-6	9+	2800	0	2
	Catterick ...	14·4	-2	SSE	2	Z_0	54	85	54	6	5	7	-	1	9+	3000	0	*
	Tynemouth ...	14·4	-2	S	3	Z_0	57	85	53	5	5	-	-	9+	9+	2500	0	2
11	St. Abbs Head	11·8	-6	SSE	2	c	58	85	54	7	5	4	-	7-8	9+	3000	0	3
	Leuchars ...	11·0	-4	-	0	c	60	85	57	7	5	2	-	4-6	10	2000	0	*
12	Renfrew (Abbotsinch)	09·6	-10	SE	3	c/r	60	85	54	6	5	2	-	7-8	10	2500	0	*
	Eskdalemuir ...	11·9	-6	S	3	c	56	92	54	7	5	-	-	10	10	1100	0	*
	Point of Ayre ...	10·8	-14	SSW	4	r_0	57	97	57	7	8	2	-	9+	10	1000	1	3
13A	Tiree ...	09·0	-20	SE	4	r_0r_0	55	97	54	7	-	2	-	10	10	1500	1	4
13B	Stornoway ...	06·3	-12	SSE	3	c	56	97	50	7	5	7	-	7-8	10	2000	1	1
15	Dalwhinnie ...	09·9	-4	SSE	3	c	57	85	52	7	8	1	-	4-6	10	2800	0	*
	Aberdeen † ...	11·0	-10	SSW	3	Z_0	57	85	53	6	5	7	-	4-6	10	3700	1	2
	Wick ...	09·4	-6	·	0	Z_0	57	85	53	7	5	1	-	4-6	10	4500	0	*
16	Sumburgh ..	10·8	-14	SE	4	Z_0	54	97	52	6	5	2	-	4-6	10	1500	1	3
17	Blacksod Point	04·6	0	W'S	1	c	53	97	52	8	8	3	-	2-3	9	1500	1	1
18	Malin Head ...	03·1	-20	SSE	4	rr	59	92	57	7	9	2	-	7-8	10	800	1	3
	Aldergrove ...	06·5	-20	SSE	5	c/r	59	92	56	7	5	2	-	7-8	10	1000	1	*
19	Birr Castle ...	02·9	-8	SSE	3	c	61	92	54	7	8	2	-	7-8	10	800	0	*
20	Valentia Obsy.	05·2	-6	-	0	r_0r_0	55	92	53	7	5	-	-	10	10	5700	1	1
	Roches Point	06·1	-10	S	6	dd	60	97	59	5	5	-	-	10	10	220	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F.	Temperature Min. Night 18h–7h °F	Min. on Grass °F	Rainfall Day 7h–18h mm.	Rainfall Night 18h–7h mm.	Sunshine Hrs. (38)
London (Kew)	74	58	48	Tr	Tr	3·7
Croydon	73	56	53	-	Tr	1·7
S. Farnborough	73	56	53	-	Tr	5·5
Boscombe Down	78	58	53	-	Tr	5·5
Thorney Island	76	55	51	-	-	6·2
Lympne	76	58	55	-	Tr	*
Manston	72	51		-	-	7·0
Shoeburyness	67	55	46	-	-	6·3
Felixstowe	65	51		-	-	
Gorleston	64	56	50	-	-	10·3
Mildenhall	60	59	51	-	-	10·7
Cranwell	77	52	46	-	-	8·3
Birmingham	*	53	48	-	-	10·5
Upper Heyford	77	57	52	-	-	5·6
Ross-on-Wye	75	57	53	-	-	*
Hartland Point	78	55	51	-	-	8·9
Bristol	68	57	55	-	Tr	8·3
Portland Bill	79	56	47	Tr	-	6·3
Plymouth	80	(57)	*	-	-	*
The Lizard	69	55	50	-	Tr	9·4
Scilly (St. Mary's)	65	58	*	0·2	Tr	6·0
Guernsey	60	59	*	-	0·1	8·2
Pembroke	62	52	*	-	1	5·3
Holyhead (Valley)	75	56	55	-	1	*
Chester (Sealand)	75	54	48	-	Tr	11·3
Manchester	77	57	52	-	-	*
Spurn Head	61	57	*	-	-	12·3
Catterick	75	54	52	-	-	11·8
Tynemouth	63	54	53	-	-	*
St. Abbs Head	65	56	*	-	-	*
Leuchars	68	55	47	-	-	10·9
Renfrew (Abbotsinch)	75	59	51	-	Tr	3·1
Eskdalemuir	74	54	54	-	-	10·9
Point of Ayre	70	55	*	-	Tr	8·2
Tiree	61	55	*	-	6	18·4
Stornoway	68	53	*	Tr	4	9·7
Dalwhinnie	70	55	52	-	-	8·0
Aberdeen †	66	52	49	-	-	12·2
Wick	60	51	48	Tr	Tr	*
Sumburgh	57	52	48	0·1	0·2	0·2
Blacksod Point	63	52	*	4	17	*
Malin Head	69	58		-	2	5·4
Aldergrove	71	56	55	1	2	6·1
Birr Castle	70	58	56	-	3·6	2·2
Valentia Obsy.	63	55	54	1	14	4·7
Roches Point	65	59	*	0·3	9	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 2nd July ... 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	10	05753	08224	53	05673	08325
115				52	10844	08487
203	77	01952	04314			
206	13	01861	08314	57	02961	08218
210	23	00751	05201	58	02864	06227
220	03	09790	13324			
230	07	81790	00068	18	05671	16185
245	00	00790	13300	10	01755	09115
260	2-	05665	06215	7-	05674	06214
276	03	05690	14427	03	01790	16414
279	00	05690	26200	00	05690	19304
285	10	00761	12501			
288	10	00861	14311	00	00890	47412
575	51	05767	12328	87	02855	14328
301	00	05690	47500	43	01773	24404
321	18	02861	13216	40	01861	12413
299	54	01763	14313	54	01763	12414
292	10	00861	18312	00	00890	44311
310	--	01644	04514			
614	10	05652	16315	86	05654	12324

01h. G.M.T. 3rd July ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	10	05665	16326			
115						
203	77	22838	16268			
206	13	22765	00068			
210	23	62875	16228			
220	03					
230	07	22845	18268			
245	00	02790	14328			
260	2-	50326				
276	03	22637	12468			
279	00	02855	18327			
285	10	02744	02628			
288	10	05658	17328			
575	51	52637	14368			
301	00	61764	14418			
321	18	05690	14326			
299	54	02754	20215			
292	10	05552	16127			
310	--	02638	20428			
614	10	05661	22326			

13h. G.M.T. 2nd July ... 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	00	00790	16312	52	02755	18528
334	--	05690	26201	--	05562	26303
340	00	05550	12400	10	01763	18403
136	10	01852	13415	00	02890	12427
336	10	01764	12413	50	05655	20416
350	21	03662	09427	00	00790	09420
368	50	05644	06524	50	01745	22315
379	20	01744	12414	20	05653	12213
390	57	02784	12427	54	00791	10322
382	83	05655	14326	83	01763	16314
438	5-	03638	04328	01	01600	04212
430	1·	06511	12313	20	05661	14203
409	5-	05628	15318	74	01863	22414

01h. G.M.T. 3rd July ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	57	02745	18428	52	62736	50468
334				--	03646	24128
340	52	05658	22228	52	02762	14428
136	50	01871	12313	09	05690	16217
336				87	02756	20328
350	53	05653	14304	23	02762	18326
368	53	05663	24126	5-	6-648	20358
379	5-	05638	22428	27	02751	24417
390	00	05690	10110	5-	57308	17359
382	57	02873	20225			
438	40	47343	20343	5-	41538	22448
430	53	02745	20326			
409	55	01844	16315	5-	51628	18558

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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{ 2/6 per month; 6/6 per quarter; 25/- per year.

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 ...	bbcz.	betpr.	bmotoinc	
Croydon ...	cm.c	c	cbcb	
Greenwich ...	c	cbey	bc	Kew 24 hours ended 7h. Max. °F. 0·1 8-10h 2nd
Camden Square	c	c	*	
Kensington ...	bcz.	bbcz.	*	
Hampstead ...	obc	bc	bc	Min. Trace 3rd

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	58	48	Tr	Tr	3·7	*	*
Croydon	73	56	53	-	Tr	1·7	*	*
Greenwich	73	55	42	-	-	3·7	58	58
Westminster	72	59	52	-	-		61	71
Regents Park	74	59	50	-	-		60	75
Camden Square	77	59	53	-	-	*	*	64
Kensington	75	58	51	-	-		70	64
Hampstead	72	57	53	-	-		*	69

SECRET

Page 1

BRITISH SECTION

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

Saturday 4th July 1942

No. 29444

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)	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)	18·1	+4	SW'S	4	r,r	66	75	58	7	5	1	–	10	10	1500
	Croydon ...	18·2	+6	S'W	3	ir	65	75	53	8	5	2	–	9	10	2000
	S. Farnborough	18·4	+2	SW'S	4	o/d	63	85	58	8	5	–	–	10	10	800
	Boscombe Down	17·8	–2	SSW	4	id	60	97	59	6	5	–	–	10	10	500
	Thorney Island	18·8	+2	S'W	4	id	61	92	59	8	5	2	–	9+	10	800
	Lympne ...	19·7	+8	SSW	4	c	66	75	58	8	5	7	–	4-6	10	2200
	Manston ...	17·5	–6	WSW	3	c	74	65	59	7	1	7	7	Tr	10	2500
2	Shoeburyness ...	17·8	–10	W'S	2	c	74	55	53	8	7	1	–	4-6	9+	3000
	Felixstowe ...	17·0	–2	S	4	z	72	65	60	6	–	7	–	0	9+	–
	Gorleston ...	17·0	–4	S'E	3	z	63	85	59	6	8	–	–	7-8	7-8	2500
	Mildenhall ...	16·3	–2	SW'W	4	c	74	45	53	8	7	2	–	4-6	10	3000
	Cranwell ...	15·3	+2	SW'S	4	c/r	68	65	55	8	5	1	–	2-3	10	2000
3	Birmingham ...	15·9	–4	S	3	c	63	75	55	8	6	7	–	7-8	10	1500
	Upper Heyford	16·4	–6	S'W	3	ir	63	85	59	8	6	7	–	4-6	10	900
4	Ross-on-Wye	15·1	–4	S	4	pr	65	85	59	7	5	–	–	10	10	2400
5	Hartland Point	12·9	–8	SW	4	c	62	85	59	7	5	2	–	7-8	10	800
	Bristol ...	16·5	–4	SSW	4	c	63	85	59	8	5	1	–	9+	10	1000
	Portland Bill ...	18·1	0	SSW	3	c	57	92	55	7	5	–	–	10	10	2500
	Plymouth ...	16·6	–2	SSW	4	z	61	92	59	6	5	–	–	10	10	500
	The Lizard ...	15·2	–4	SW	5	c	61	92	59	7	8	2	–	9	10	1500
	Scilly (St. Mary's)	12·4	–8	S'W	5	ir	61	92	58	6	5	2	–	7-8	10	500
	Guernsey ...															
6	Pembroke ...	11·6	–8	S'W	7	ir	58	92	56	6	8	–	–	9+	9+	1500
7	Holyhead (Valley)	09·4	–12	S	6	ir	61	85	58	8	5	7	–	9	10	600
	Chester (Sealand)	11·9	–12	SSE	4	c	68	75	58	6	5	–	–	4-6	9+	2000
8	Manchester ...	12·7	–14	SSE	5	c	65	75	57	7	4	7	–	7-8	10	2500
10	Spurn Head ...	15·0	+2	WSW	4	c	71	55	54	7	1	2	–	2-3	10	2500
	Catterick ...	13·0	–6	SSW	3	c/r	64	75	57	5	5	2	–	4-6	10	2000
	Tynemouth ...	13·2	–4	SW	4	c/pr	66	65	55	6	–	2	–	9+	9+	2300
11	St. Abbs Head	09·6	–12	SE	4	pr	65	65	54	7	5	–	–	10	10	2000
	Leuchars ...	08·9	–10	SSE	3	ir	65	85	61	7	5	2	–	7-8	10	2000
12	Renfrew (Abbots I.)	07·3	–10	SSW	3	c/r	64	75	57	6	5	2	–	9+	10	1800
	Eskdalemuir ...	09·9	–10	S'W	5	dd	59	92	56	6	6	–	–	10	10	400
	Point of Ayre ...	08·6	–12	SSW	5	dd	60	97	59	6	6	2	–	7-8	10	600
13A	Tiree ...	03·3	0	SE'E	3	c/r	57	97	57	7	5	–	–	10	10	400
13B	Stornoway ...	03·3	–14	SSE	3	rr	55	97	55	6	5	–	–	10	10	900
15	Dalwhinnie ...	06·5	–12	SSE	3	id	59	85	55	6	5	–	–	10	10	1500
	Aberdeen ...	09·4	–10	SSW	4	c	63	75	55	8	8	9	–	2-3	7-8	1800
	Wick ...	08·5	–10	SE	2	z	58	85	53	7	5	7	–	2-3	9	4500
16	Sumburgh ...	09·8	–12	SE	4	z	55	92	53	6	5	2	–	7-8	10	2000
17	Blacksod Point	04·5	–2	S'W	2	bc	61	75	53	8	2	3	2	2-3	4-6	4000
18	Malin Head ...	04·0	+10	SW'W	4	c/r	57	92	55	8	8	2	–	2-3	10	800
	Aldergrove ...	04·4	–10	SSE	4	ir	61	97	60	6	5	2	–	9	10	1000
19	Birr Castle ...	04·6	–2	NW	1	rr	59	92	57	7	6	2	–	7-8	10	800
20	Valentia Obsy.	05·3	+2	W'N	3	c	61	85	56	9	8	–	–	9	9	7200
	Roches Point	04·8	–10	S	5	dd	61	97	60	5	5	–	–	10	10	2200

OBSERVATIONS at 18h. 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)	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)	16·6	–10	SSW	3	c	65	75	57	8	5	9	9	7-8	9+	2500	1	*
	Croydon ...	17·5	–6	SSW	2	c	63	85	58	8	5	7	–	1	9	1000	1	*
	S. Farnborough	16·5	–12	SW'S	3	c	66	65	55	8	7	7	6	7-8	9+	800	0	*
	Boscombe Down	16·4	–14	S	5	pr	62	75	55	8	5	7	–	9	10	800	1	*
	Thorney Island	17·4	–12	SSE	3	c	63	85	59	9	5	–	–	9+	9+	2500	1	*
	Lympne ...	19·5	0	WSW	2	c	61	85	56	8	5	9	2	Tr	9+	2200	0	§ 2
	Manston ...	18·1	–2	SW'W	3	c	65	85	61	8	1	3	–	7-8	9	1500	0	*
2	Shoeburyness ...	17·8	–2	SW	3	c/r	66	85	61	8	5	2	–	7-8	10	2500	0	*
	Felixstowe ...	16·9	+2	SSW	4	c	68	75	61	7	5	7	–	1	9+	2500	1	2
	Gorleston ...	16·3	–2	WSW	2	c	71	65	59	7	5	–	–	9+	9+	2400	0	3
	Mildenhall ...	15·7	–2	SSW	4	c	69	65	56	8	5	7	–	4-6	9+	3000	0	*
	Cranwell ...	13·7	–6	SSW	5	pr	66	75	59	8	7	4	2	4-6	9	3500	1	*
3	Birmingham ...	12·8	–8	SSW	4	c	64	85	59	8	6	7	–	7-8	9+	1500	0	*
	Upper Heyford	15·0	–12	S'W	4	c	63	75	55	9	6	7	–	7-8	10	1100	1	*
4	Ross-on-Wye	12·9	–14	S	4	c	63	75	56	8	6	2	–	7-8	10	2000	0	*
5	Hartland Point	10·7	–8	SW	5	r,r	60	97	59	6	5	2	–	9	10	500	1	5
	Bristol ...	15·0	–14	SSW	4	r,r	61	85	58	8	6	7	–	7-8	9+	800	1	*
	Portland Bill ...	16·4	–12	S	3	c	59	92	57	7	5	–	–	10	10	2500	1	3
	Plymouth ...	14·3	–18	S	5	ir	60	92	58	6	5	–	–	10	10	700	1	4
	The Lizard ...	13·0	–6	SW	6	r,r	59	97	59	6	5	–	–	10	10	800	1	5
	Scilly (St. Mary's)	11·0	–6	SSW	5	o/d	59	97	59	5	5	–	–	10	10	500	1	4
	Guernsey ...																	
6	Pembroke ...	09·0	–16	S'W	7	r,r	57	97	57	6	5	–	–	10	10	1500	1	4
7	Holyhead (Valley)	06·4	–20	S'E	6	rr	59	97	58	5	5	–	–	10	10	300	1	4
	Chester (Sealand)	09·7	–14	SSE	3	ir	66	75	59	8	6	7	–	7-8	9+	1500	0	*
8	Manchester ...	10·1	–14	S	5	c/r	65	75	57	8	5	3	1	2-3	9	2000	1	*
10	Spurn Head ...	13·8	–8	S'W	5	c	67	75	60	7	2	7	–	2-3	9+	2500	0	3
	Catterick ...	10·4	–8	S	3	c/r	65	75	58	6	5	7	–	4-6	9+	2000	0	*
	Tynemouth ...	10·3	–14	ESE	6	c	67	65	55	6	8	–	–	9+	9+	2300	0	4
11	St. Abbs Head	07·5	–8	'S	4	c	66	65	53	7	8	2	–	7-8	9+	2900	0	3
	Leuchars ...	06·2	–18	SSW	5	r,r	62	97	62	7	5	2	–	4-6	10	1200	1	*
12	Renfrew (Abbots I.)	05·0	–8	S	3	rr	61	92	58	5	5	2	–	4-6	10	1600	1	*
	Eskdalemuir ...	07·8	–6	SW'S	5	r,r	58	92	55	6	6	–	–	10	10	400	1	*
	Point of Ayre ...	06·4	–6	SSW	5	dd	58	97	57	6	6	2	–	7-8	10	600	1	4
13A	Tiree ...	03·4	–2	–	0	c	56	85	52	8	5	3	–	4-6	7-8	1800	0	2
13B	Stornoway ...	01·0	–18	SW	3	c	57	97	57	7	5	1	–	7-8	9+	1500	1	1
15	Dalwhinnie ...	04·0	–10	S	3	rr	58	92	56	6	5	–	–	10	10	1500	1	*
	Aberdeen ...	07·1	–14	S'W	3	c/r	59	85	55	6	5	9	–	4-6	9	1700	0	3
	Wick ...	05·4	–26	SE	4	z	58	65	53	7	5	2	–	7-8	10	3500	0	*
16	Sumburgh ...	08·2	–10	SE'S	4	z	55	92	52	6	5	7	–	2-3	9+	700	0	2
17	Blacksod Point	03·2	–6	WSW	3	c	59	85	55	8	8	–	–	9+	9+	2500	0	2
18	Malin Head ...	03·2	–6	N'E	2	r	56	85	52	8	9	2	–	4-6	10	800	1	2
	Aldergrove ...	02·7	–16	SW	1	dr	59	97	55	6	6	2	–	7-8	10	500	1	*
19	Birr Castle ...	02·9	–6	WNW	1	c	62	92	60	7	6	2	–	7-8	10	800	1	*
20	Valentia Obsy.	05·1	–4	SSW	4	ir	58	92	56	8	6	–	–	10	10	1500	1	4
	Roches Point	05·2	+6	SW	5	c	60	85	56	8	5	7	–	4-6	9	1500	1	5

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 3rd (39)	Weather. 13h.—18h. 3rd (40)	Weather. 18h. 3rd – 1h. 4th (41)	Weather. 1h. – 7h. 4th (42)
1	London (Kew)	cr,r	cp,c	c	cm
	Croydon ...	bcir	ir,c	c	bcd,d
	S. Farnborough	bcc,d,c	cid,c	c,bcc	cm,d,d
	Boscombe Down	cr,r	cid,m,ir,c	cr,r,m	cr,cd
	Thorney Island	cir,r,r	id,ir,c	cir,c	cr,r,id
	Lympne ...	cb,cm,c⊕	cc,ir,c	c	bcc
	Manston ...	cm,c⊕	cir	ir,cm	cr,,bm,b
2	Shoeburyness ...	cm,bcc	cr	c	b,c
	Felixstowe ...	bccm	cm,cir,c	c	cbcc
	Gorleston ...	cz	cpr	c	probc
	Mildenhall ...	cz,ycy	cy,cir,c	c,cr,r,c	c
	Cranwell ...	cm,cir,c	cr,cpr	c	cid,cm
3	Birmingham ...	cir	c	cr,r	or,r
	Upper Heyford	cir,r,r	cir,c	c,cir,c	c,cid,m
4	Ross-on-Wye	ccr,c	c	p,cor	or
5	Hartland Point	ir,c	cirr,r	ir,r,r,c	orrc
	Bristol ...	ir,r,r,c	cir,cr,r	cr,ir,m	cr,r,d,d
	Portland Bill ...	orrc	c	c	o
	Plymouth ...	cm	cm,d,d,ir	r,r,f,r,r,f	cr,r,f,m
	The Lizard ...	cpr,c	cr,r	c,orf	rf
	Scilly (St. Mary's)	oir	oir,d	cid,r,r	r,r,f,r,f
	Guernsey ...				
6	Pembroke ...	cir,m	or,r,m	cir,d,d,m	cr,r,m
7	Holyhead (Valley)	cr,dm	cr,d,d,d	r,r,ir,r,m	cd,d,ir
	Chester (Sealand)	cir,m	cir,q	ir,cr,r	cr,r,m
8	Manchester ...	r,r,z	cm,ir	cir,z	cr,r
10	Spurn Head ...	c	c	bc	cr,o
	Catterick ...	cm,cr,m	cir,m	cm,pr,cm	cm,cir,c
	Tynemouth ...	cp	c	c	c,p,c
11	St. Abbs Head	cm,pr	cp,m,c	cm	cr,c
	Leuchars ...	c,c,ir	ccr,m	rr,r,c	cr,r,m,cb
12	Renfrew (Abbots I.)	cm,ir,z	cz,r,m,rr	cr,r	cr,r,c
	Eskdalemuir ...	cd,rrd	cr,Rr		c,RR,r,r
	Point of Ayre ...	dd,c,dd	ddc	bbc	cir,c
13A	Tiree ...	orrm	cbc	ciR	cbc
13B	Stornoway ...	corrz	ocrrdd	corr	ocrr
15	Dalwhinnie ...	oid	oidrr		oir
	Aberdeen ...	cz,c	cir,z	cir,z	irr,c
	Wick ...	cm	cz	cr,r,r,m	cr,m,r,f,m
16	Sumburgh ...	cir,dr,m	cm	cm	cir,r,r,m
17	Blacksod Point	bc	c	bc	pr
18	Malin Head ...	r	c	r	bc
	Aldergrove ...	cr,r,m	cir,rrdr,m	cr,r,c,d,d	d,m,cbc
19	Birr Castle ...	r	r		bc
20	Valentia Obsy.	r	r	pr	bc
	Roches Point	r	r	r	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 4th July 1942

Districts	
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate Southwest wind; cloudy with occasional rain today, bright periods and local showers tomorrow; average temperature.
4 W. Midlands 5 S.W. England 6 South Wales	Moderate Southwest wind; cloudy with rain at first becoming fair later today, bright periods and local showers tomorrow average temperature As 4 adding coast and hill fog at first
7 North Wales 8 N.W. England	Moderate Southwest wind; variable cloud, local showers; average temperature.
9 N. Midlands ... 10 N.E. England	As 4
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 Southwest wind; bright intervals, some showers; average temperature.
16 Orkneys and Shetlands	Moderate or fresh Southeast wind, veering Southwest; mainly cloudy, occasional rain or showers; average temperature
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light or moderate Southwest to West wind; bright intervals, showers, local thunder; average temperature.

GENERAL INFERENCE

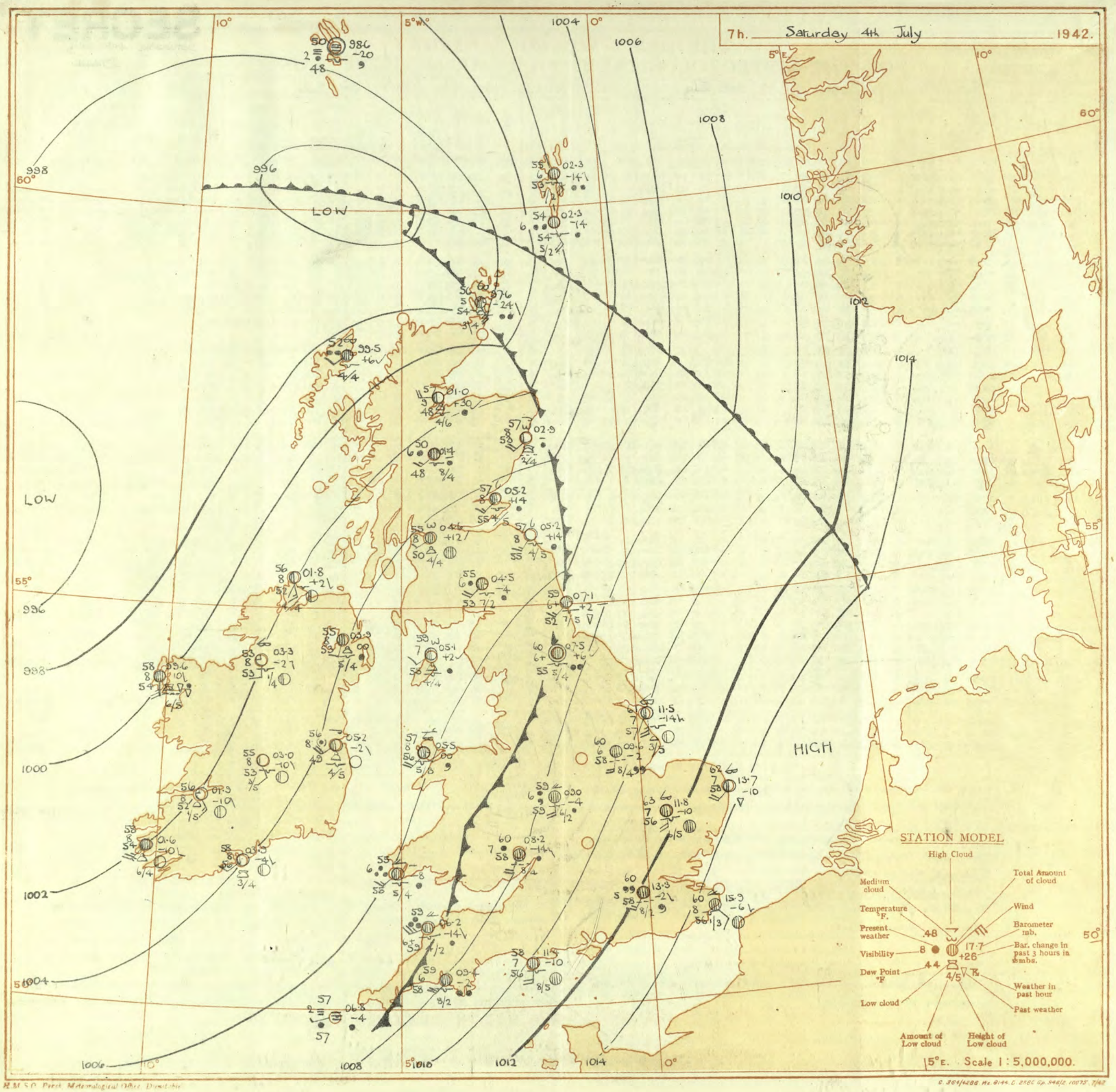
A large and complex depression centred to Northwest of Scotland is almost stationary. A shallow trough from northeast to Southwest England is moving slowly east and another trough to westward of Ireland is also moving east. It will be cloudy with occasional rain at first in most parts of England and Wales, but fair weather will spread slowly from the West during the next 24 hours. Tomorrow there will be bright periods and showers in most districts.

FURTHER OUTLOOK

Unsettled with thundery showers.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

C. 364/4286. No. 9144. C. 2560 Gp. 948/2. 10075. 7/42

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.

BRITISH SECTION

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

Saturday 4th July 1942
No. 29444

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)	°F. Dew Point (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	58		*	*	*	*	*	*	*	*
	Croydon	290	15.9	-10	SW	4	bc	59	85	56	8	5	3	1	2-3	4-6	1500
	S. Farnborough	226	14.3	-14	S'W	3	c	60	85	57	8	5	7	-	4-6	9	3000
	Boscombe Down	417	13.9	-12	S'W	4	r. ro	58	97	57	6	5	-	-	10	10	1000
	Thorney Island	10	14.9	-10	SSW	4	c	61	85	57	8	5	4	-	4-6	7-8	4600
	Lympne	283	17.7	-10	SE	3	c	58	92	56	8	5	7	-	4-6	9+	3200
	Manston	164	16.0	-10	S	3	iro	60	92	58	6	6	7	-	4-6	9+	1100
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	15.5	-8	S'E	4	c	62	85	57	8	-	7	-	0	9	-
	Gorleston	5	16.0	-8	S'W	4	c	62	85	57	7	5	-	-	9	9	1500
	Mildenhall	15	14.1	-10	S'E	3	c	62	75	55	7	5	-	-	7-8	10	3300
	Cranwell	203	11.0	-14	S'W	4	c	61	85	55	7	5	-	-	9+	9+	4000
3	Birmingham	538	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	11.9	-18	SW'S	4	o	60	85	56	7	5	-	-	10	10	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	08.7	-10	SW	5	c/r	59	97	59	7	5	2	-	7-8	10	800
	Bristol	209	12.4	-10	SSE	5	c/r	60	97	58	7	-	2	-	10	10	800
	Portland Bill	32	14.6	-8	SSW	4	o	57	92	55	7	5	-	-	10	10	2500
	Plymouth	82	11.7	-14	SW	4	rf	59	97	59	3	5	-	-	10	10	200
	The Lizard	240	11.4	-8	SW	5	rf	59	97	59	2	5	-	-	10	10	500
	Scilly (St. Mary's)	163	09.1	-16	SW'S	4	rr	58	97	58	6	6	-	-	10	10	500
	Guernsey	175															
6	Pembroke	142	08.2	-6	SSW	6	d.d.	57	97	57	6	5	2	-	7-8	10	1500
7	Holyhead (Valley)	32	06.0	+2	S'W	6	ir	57	97	56	6	5	2	-	7-8	10	400
	Chester (Sealand)	16	08.4	-10	S'E	1	roro	60	97	59	7	5	2	-	4-6	10	2000
8	Manchester	235	08.6	-8	S	5	iro	60	92	57	6	5	-	-	10	10	2500
10	Spurn Head	29	11.5	-14	S	5	bc	61	85	57	7	7	7	-	2-3	4-6	2500
	Catterick	175	07.9	-12	S	3	zo	62	75	55	6	5	7	-	7-8	10	1600
	Tynemouth	108	07.7	-14	SSE	5	c	63	75	56	6	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	04.1	-18	S	4	c	61	85	54	7	5	-	-	7-8	7-8	2500
	Leuchars	36	02.8	-22	SSE	3	c	61	92	59	7	5	7	-	7-8	9	2000
12	Renfrew (Abbots I.)	19	01.1	-22	S'E	3	roro	59	92	56	6	5	-	-	10	10	1800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	04.3	+10	SWW	4	c	58	97	56	7	9	2	-	7-8	6	1800
13A	Tiree	22	02.3	-6	WNW	1	RR	52	97	51	7	-	2	-	9	10	1500
13B	Stornoway	80	99.8	-14	-	0	rr	52	97	52	6	5	-	-	10	10	900
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	03.8	-14	S	3	ir	57	92	52	6	5	1	-	9	10	1500
	Wick	114	02.9	-4	SSE	4	r'r	54	97	53	5	5	-	-	9	9	2500
16	Sumburgh	19	05.5	-10	SSE	4	zo	54	97	53	5	5	7	-	9	10	2000
17	Blacksod Point	18	02.1	-6	S	3	bc	56	85	51	8	8	-	-	2-3	2-3	1500
18	Malin Head	84	02.0	0	-	0	c/r	53	97	52	8	-	2	-	10	10	1500
	Aldergrove	268	03.5	+18	NNW	1	d.d.	53	97	52	6	6	2	-	7-8	10	800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	04.3	-10	S'W	4	bc	56	92	54	8	2	-	-	2-3	2-3	1500
	Roches Point	22	06.2	-2	SW	4	b	56	92	54	8	5	-	-	1	1	1500

OBSERVATIONS at 7 hr. G.M.T. 4th July — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Night 18h–7h mm. (37)	Sunshine 3rd Hrs. (38)
London (Kew)	12.4	-6	SSW	3	zo	61	85	58	6	5	-	-	10	10	1500	1	*	68	58	56	Tr	-	3.1
Croydon	13.3	-2	SSW	3	d.d.	60	92	58	5	6	-	-	10	10	400	1	*	71	58	55	Tr	0.1	2.8
S. Farnborough	12.3	-6	SW'W	4	d.d.	59	92	58	5	5	-	-	10	10	600	1	*	68	53	51	Tr	0.3	2.5
Boscombe Down	12.0	0	SSW	5	zo	59	92	58	6	6	2	-	9	10	500	1	*	64	55	57	3	1	0.1
Thorney Island	13.1	-2	SSW	4	c/d	62	85	58	7	5	-	-	7-8	10	1500	1	*	66	60	59	0.4	Tr	*
Lympne	15.9	-6	SE	2	c	60	85	56	8	5	2	-	Tr	10	900	0	§ 3	69	56	*	7	-	3.5
Manston	15.0	-4	SSW	4	c	63	85	58	8	-	7	-	0	9	-	0	*	74	56	53	Tr	Tr	4.0
Shoeburyness	14.0	-6	S'W	5	c	63	85	57	8	5	-	-	10	10	3500	0	*	77	60	53	Tr	-	3.9
Felixstowe	14.1	-2	S'W	4	c	63	85	58	8	5	7	-	9	9+	4500	0	3	74	61	57	0.1	-	6.7
Gorleston	13.7	-10	SSW	4	bc	62	85	58	7	-	7	-	0	4-6	-	0	3	75	60	57	Tr	Tr	4.4
Mildenhall	11.8	-10	S	4	c	63	75	54	7	5	7	-	9	10	2000	0	*	76	60	57	Tr	0.3	3.9
Cranwell	09.6	-2	S	4	o/d	60	92	58	6	5	-	-	10	10	1200	1	*	*	60	56	1	0.1	3.9
Birmingham	08.2	-8	S	3	rr	59	97	58	6	6	-	-	10	10	800	1	*	67	58	56	0.1	4	0.4
Upper Heyford	10.3	-4	SSW	4	o/d	60	92	58	7	6	-	-	10	10	500	1	*	66	59	59	0.1	Tr	*
Ross-on-Wye	08.2	-14	S'W	4	iro	60	97	58	7	6	-	-	10	10	1500	1	*	68	59	58	Tr	5	0.5
Hartland Point	06.2	-14	WSW	5	rr	59	97	59	6	5	2	-	4-6	10	500	1	4	63	59	57	1	19	0.0
Bristol	10.2	-6	SSW	4	iro	59	92	58	6	5	-	-	10	10	600	1	*	65	59	58	0.3	3	0.1
Portland Bill	11.4	-10	S	4	o	58	92	56	7	5	-	-	10	10	2500	1	4	61	55	*	2	-	*
Plymouth	09.4	-2	SSW	5	o/r	59	97	58	6	5	-	-	10	10	450	1	4	62	58	56	1	6	0.0
The Lizard	07.4	-14	SW	6	rf	58	97	58	2	5	-	-	10	10	400	1	5	61	57	*	0.5	10	0.0
Scilly (St. Mary's)	06.8	-4	WSW	1	rF	57	97	57	2	-	-	-	10	10	150	1	4	61	56	*	0.4	15	0.0
Guernsey																							
Pembroke	16.5	-8	SW'S	3	rr	55	97	55	6	5	2	-	7-8	10	1500	1	3	59	51	*	3	9	0.0
Holyhead (Valley)	05.5	0	S'W	4	c	57	97	55	8	5	7	-	7-8	9	2500	1	3	62	55	49	2	3	*
Chester (Sealand)	06.8	-8	SE'S	1	roro	59	97	58	6	5	2	-	2-3	10	2500	1	*	69	59	56	0.3	1	0.9
Manchester	07.3	-4	S'E	3	roro	59	92	58	6	6	2	-	4-6	10	1500	1	*	67	58	58	1	3	*
Spurn Head	11.5	-14	S	5	bc	61	85	57	7	7	7	-	2-3	4-6	2500		4	72		*	Tr		
Catterick	07.5	+6	-	0	c/r	60	92	55	6	5	7	-	7-8	10	1000	1	*	71	59	57	0.5	1	0.7
Tynemouth	07.1	+2	SW	3	c	59	85	52	6	5	-	-	9+	9+	2700	1		68	59	58	Tr	0.6	*
St. Abbs Head	05.2	+14	SSW	3	c	57	92	55	8	5	4	-	4-6	7-8	2000	1	3	69	55	*	Tr	0.6	
Leuchars	04.1	+22	SW	4	bc	55	92	53	8	1	3	-	2-3	4-6	2500	1	*	67	54	51	1	3	0.6
Renfrew (Abbots I.)	04.6	+12	SW	1	c	55	85	50	8	5	3	-	4-6	7-8	2000	1	*	64	53	50	3	1	0.0
Eskdalemuir	04.5	+4	SW'S	4	iro	55	92	52	6	5	-	-	9+	9+	500	1	*	64	53	52	3	13	0.4
Point of Ayre	05.1	+2	SW	2	c	59	85	55	7	8	3	-	4-6	7-8	1000	1	3	60	55	*	2	1	0.0
Tiree	02.8	+8	SSW	2	bc	55	97	53	8	8	3	-	2-3	4-6	2500	0	3	58	52	*	3	8	0.8
Stornoway	99.5	+6	SW	2	roro	52	97	52	8	5	7	-	4-6	9	1500	2		57	50	*	8	13	1.4
Dalwhinnie	02.6	+14	SW	3	iro	50	92	58	6	5	-	-	10	10	1500	1	*	59	49	47	5	4	0.7
Aberdeen †	02.9	+10	SSW	4	bc	57	85	53	8	9	3	3	1	2-3	1500	1	3	64	54	52	Tr	2	0.9
Wick	98.2	-18	SW	3	c/r	54	97	53	8	5	3	-	2-3	7-8	2000	1	*	61	52	51	-	3	*
Sumburgh	02.3	-14	SE'S	4	roro	54	97	54	6	5	2	-	7-8	10	400	0	3	57	53	53	0.6	Tr	0.0
Blacksod Point	99.6	-10	S	5	c/pr	58	85	53	8	9	-	-	9	9	2500	1	4	64	54	*	-	2	*
Malin Head	01.8	-2	S'E	3	bc	56	85	52	8	5	-	-	4-6	4-6	1500	1	1	63	51		3	3	0.4
Aldergrove	03.9	0	S'W	1	c	55	92	53	8	8	-	-	7-8	7-8	1200	1	*	64	51	45	17	15	0.0
Birr Castle	03.0	-10	SSE	2	bc	55	92	53	8	5	-	-	2-3	2-3	2500	1	*	63	48	43	18	1	0.0
Valentia Obsy.	01.6	-10	S'W	5	c	58	85	54	8	2	-	-	9	9	1500	1	4	63	53	49	0.4	-	3.5
Roches Point	03.9	-4	SW	2	bc	58	92	56	8	3	-	-	2-3	2-3	1500	1	4	63	53	*	7	0.5	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 3rd July ... 18h. G.M.T. — 01h. G.M.T. 4th July ... 07h. G.M.T.

III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	07	05680	14266	07	61890	46428	57	61755	48467	57	22523	46567
115	52	02844	16267	52	67435	08268	--	67139	24269			
203				5-	02848	16458	5-	64738	16268	5-	02838	16468
206	51	02866	16528	52	02855	12468	53	02964	14465	83	01964	24464
210	57	25865	14487	57	02854	14327	57	02863	11468	5-	02955	53465
220				53	02945	27216				53	01946	19216
230	5-	22748	12268	62	64646	00068	62	66536	16168	24	01953	16163
245	52	22754	14468	52	62654	16368	52	22646	15368	84	01853	19463
260	53	02855	14367	57	02754	14527	57	51744	14558	74	01863	22363
278	5-	54518	47458	5-	63628	49868	5-	52748	27458	5-	02867	18227
279	52	02744	17527	87	25864	17487	52	66647	51668	57	22746	18368
285	52	61745	18568							51	61744	22367
288	52	61655	49468	52	05655	15267	57	05662	48515	87	02745	16328
575	87	25847	28287	73	02943	24286	5-	22848	00068	57	00841	16212
301	57	61655	49568	57	22654	16167	52	64656	16468	52	62645	14368
321	51	61654	17368	89	02744	49466	5-	02857	18427	5-	61748	15468
299	50	05655	20215	5-	02755	20215				5-	03748	22328
292	52	22666	17268	52	02755	16368	57	05654	16466	57	09655	15268
310	--	02638	20528							--	67109	20449
614	57	62654	18368							52	64545	16268

13h. G.M.T. 3rd July ... 18h. G.M.T. — 01h. G.M.T. 4th July ... 07h. G.M.T.

III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
333	52	21735	16468	52	62627	50568	52	61635	18468	57	62625	20257
334	--	53547	26388	--	61646	20388				--	54547	24518
340	57	61755	16467	8-	02855	17685	5-	62648	18468	62	64537	14368
135	17	02865	19427	57	02774	16427	5-	05687	18427	57	02756	16428
336										62	64626	20468
350	12	61853	17468	27	02843	16468	6-	02744	49426	5-	51638	49428
368				62	02845	20368	52	62637	18368	5-	62638	24368
379				57	02835	51567	6-	51628	51568	62	62517	20568
390	11	02754	22428	67	02744	18467	57	05664	16326	5-	05648	17428
382	82	22846	16368	62	02846	18468	57	02845	16428	62	21645	18358
438	87	05514	22428	07	02850	22316	50	01753	22413	57	02845	20423
430	5-	62438	18368	5-	02888	16228	50	02864	20324	5-	21748	16458
409	5-	21738	17658	5-	52628	17658	5-	21528	18568	6-	62628	17568

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
Kew	crοrο	cprοc	ccmο
Croydon	bccirο	irοc	cbccdο
Greenwich	cy	c	cbccidο
Camden Square	bc	c	*
Kensington	bco	o	*
Hampstead	bcp	od	o

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	Night Min °F	Min on grass °F	Rainfall Day mm	Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	9h % To-day
Kew	68	60	56	Tr	-	3.1	*	*
Croydon	71	58	55	Tr	0.1	2.8	*	*
Greenwich	74	59	51	-	Tr	2.6	74	81
Westminster	70	60	53		-		81	87
Regents Park	72	60	57	-	Tr		61	81
Camden Square	72	60	56	Tr	-	*	*	83
Kensington	72	60	56	-	-		81	85
Hampstead	71	58	55	Tr	Tr		*	93

SECRET

Page 1 BRITISH SECTION

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

Sunday 5th July 1942

No. 23445

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)	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)	11·4	-8	SW'S	5	c	67	65	54	8	8	4	1	7-8	9	2500
	Croydon	12·1	-6	S	5	c	69	55	54	8	4	4	-	7-8	7-8	2500
	S. Farnborough	11·5	-4	SSW	5	c	67	65	54	7	7	7	-	9	9+	1800
	Boscombe Down	11·4	-2	S'W	5	c	61	85	55	7	5	-	-	10	10	800
	Thorney Island	12·6	-4	S'W	5	bc	69	65	58	8	1	3	-	2-3	4-6	1500
	Lympne	14·9	-4	S	4	bc	67	65	56	8	7	-	-	4-6	4-6	2500
	Manston	13·7	-6	SSW	4	bc	71	75	61	8	2	-	-	4-6	4-6	2500
2	Shoeburyness	12·9	-10	SSW	4	bc	74	55	56	8	7	4	-	4-6	4-6	4000
	Felixstowe	12·7	-8	S	5	c	71	65	59	7	7	-	-	7-8	7-8	2000
	Gorleston	13·0	-4	S	5	bc	63	85	57	7	2	-	-	4-6	4-6	2500
	Mildenhall	10·0	-14	S'W	5	c	72	45	50	7	8	7	-	4-6	7-8	2500
	Cranwell	08·2	-6	SSW	5	c	65	65	54	7	5	-	-	10	10	1800
3	Birmingham	07·9	-4	SSW	4	ir	59	85	55	6	6	-	-	10	10	800
	Upper Heyford	09·6	-2	S'W	5	ido	61	75	54	7	6	2	-	9+	10	800
4	Ross-on-Wye	07·6	-4	S'W	4	ido	60	92	58	6	6	-	-	10	10	800
5	Hartland Point	06·4	+10	SW	4	c/r	59	97	58	8	5	7	-	4-6	9	1000
	Bristol	09·7	-2	SSW	5	rr	59	92	56	5	6	2	-	7-8	10	800
	Portland Bill	10·9	-2	S	4	o	59	92	57	7	5	-	-	10	10	2500
	Plymouth	08·9	-4	SSW	5	roro	59	97	58	6	5	-	-	10	10	400
	The Lizard	08·0	+12	WNW	3	c	61	97	61	7	8	6	-	7-8	7-8	1500
	Scilly (St. Mary's)	07·9	+10	SW'W	4	bc	61	85	57	8	8	4	-	4-6	4-6	1200
	Guernsey															
6	Pembroke	06·5	+10	WSW	5	rr	54	97	54	6	5	-	-	10	10	1500
7	Holyhead (Valley)	04·6	-8	SW'S	3	c/r	57	92	55	8	5	7	8	7-8	9+	2000
	Chester (Sealand)	05·3	-2	NW'N	1	rr	59	92	57	6	6	-	-	10	10	800
8	Manchester	05·0	-10	S'E	5	roro	61	92	59	6	5	2	-	7-8	10	500
10	Spurn Head	08·	-4	S'W	6	c	65	75	57	6	5	6	-	7-8	10	1800
	Catterick	05·5	-10	SE	3	ifo	60	97	60	4	5	2	-	7-8	10	1500
	Tynemouth	05·8	-12	SE	3	c/pr	56	92	54	6	8	-	-	9+	9+	1400
11	St. Abbs Head	04·7	-6	SE	3	c/r	61	75	52	8	8	2	-	7-8	10	4600
	Leuchars	03·7	-10	SSE	2	c	66	75	57	8	1	1	-	2-3	10	2000
12	Renfrew (Abbots I.)	03·7	-6	SSW	3	c	65	55	50	9	5	2	-	4-6	9+	3000
	Eskdalemuir	04·0	-6	SSW	3	c	59	75	51	8	5	7	-	7-8	9	1800
	Point of Ayre	04·2	-4	NNE	1	c	58	85	54	8	5	7	6	Tr	9+	2000
13A	Tiree	02·0	-6	S	3	bc	61	75	54	8	1	-	5	2-3	2-3	3500
13B	Stornoway	01·1	+8	S	5	c	59	75	49	8	5	7	5	4-6	9	2500
15	Dalwhinnie	02·9	+4	SW	2	c	58	65	46	7	5	-	-	7-8	7-8	2500
	Aberdeen	04·6	+2	S'W	3	c	63	75	54	7	8	-	3	1	7-8	2100
	Wick	03·1	+10	SSE	3	c	61	85	54	9	8	3	-	4-6	7-8	2500
16	Sumburgh	04·6	+40	SW	4	b	54	92	51	8	5	-	-	Tr	Tr	1500
17	Blacksod Point	98·7	-6	S	5	c	60	85	56	8	9	-	-	7-8	7-8	1500
18	Malin Head	00·4	-10	SSW	4	bc	64	65	53	8	2	-	-	4-6	4-6	1500
	Aldergrove	02·5	-10	S'E	2	c	64	65	52	8	2	4	8	4-6	9+	3000
19	Birr Castle	01·8	-6	SSW	4	c	65	65	54	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	01·5	+2	SW'S	5	c	61	75	53	8	2	6	3	7-8	9	2500
	Roches Point	03·3	-2	SSW	4	bc/pr	63	85	59	8	3	4	-	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 4th 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)	10·7	0	SW'S	4	c	65	75	55	7	5	7	-	7-8	9+	1500	1	*
Croydon	11·2	-4	SSW	4	c	66	75	57	8	5	4	4	7-8	9	3500	0	*
S. Farnborough	10·7	-2	SW'S	5	dodo	65	75	55	6	5	-	-	10	10	600	0	*
Boscombe Down	10·3	-6	SSW	5	dodo	59	97	59	6	6	2	-	7-8	10	300	1	*
Thorney Island	11·5	-6	SSW	4	c	64	85	57	8	5	-	-	4-6	10	1500	0	*
Lympne	13·3	-10	SSW	3	bc	66	75	58	8	4	-	9	1	4-6	3000	0	§
Manston	12·6	-2	S'W	3	c	68	85	62	9	2	9	2	1	7-8	2000	0	*
Shoeburyness	12·6	0	SW	3	c	70	65	57	8	7	7	9	7-8	9+	2500	0	*
Felixstowe	11·7	-2	S'W	4	c	67	75	58	8	5	-	6	4-6	9	4000	0	3
Gorleston	11·0	-8	S'W	5	c	66	75	57	7	-	7	-	0	9	—	0	3
Mildenhall	09·7	0	SW'S	5	c	69	55	51	7	5	7	-	7-8	9+	2000	0	*
Cranwell	08·3	+2	SSW	5	c	64	75	56	8	5	-	-	10	10	1500	1	*
Birmingham	07·3	0	S	3	c	61	75	53	8	8	-	-	7-8	7-8	2500	1	*
Upper Heyford	09·0	-2	S	3	DD	59	92	58	4	5	2	-	9+	10	200	1	*
Ross-on-Wye	07·2	0	S'W	3	c	65	75	58	8	7	-	5	4-6	7-8	3500	1	*
Hartland Point	07·4	0	W	4	bc	58	55	44	9	2	4	2	1	4-6	2000	1	3
Bristol	08·8	-4	S	4	c	63	85	58	8	5	-	2	2-3	9+	1500	1	*
Portland Bill	10·3	-4	S	4	o	57	92	55	7	5	-	-	10	10	2500	1	4
Plymouth	09·0	+2	SW'S	3	c	60	92	57	8	8	4	6	2-3	9	2000	1	3
The Lizard	08·7	+2	SW	2	c	60	85	56	8	8	7	-	4-6	7-8	2500	1	4
Scilly (St. Mary's)	07·7	-2	S'W	4	bc	61	85	57	8	8	-	4	2-3	4-6	1500	1	3
Guernsey																	
Pembroke	06·8	0	S'W	4	bc	58	92	55	8	2	7	-	2-3	4-6	3000	1	3
Holyhead (Valley)	04·6	0	SSW	3	b	60	85	54	8	8	-	-	1	1	1500	1	2
Chester (Sealand)	05·6	+4	SW'S	3	c/pr	63	75	55	8	8	6	-	4-6	10	2000	1	*
Manchester	05·7	+6	S'W	4	c	66	75	56	9	3	6	-	7-8	7-8	2000	1	*
Spurn Head	08·4	0	SSW	5	c	65	75	56	7	5	2	-	7-8	10	1500	0	
Catterick	06·1	+16	W'S	2	bc	63	75	54	8	8	4	-	4-6	4-6	2500	1	*
Tynemouth	05·4	+4	WSW	3	c/r	59	85	55	7	8	-	-	7-8	7-8	1800	1	3
St. Abbs Head	03·7	0	SSW	2	c/r	57	75	51	8	5	-	-	7-8	7-8	1500	1	3
Leuchars	02·7	-2	SSW	2	c	63	75	56	8	2	7	-	Tr	9	3000	0	*
Renfrew (Abbots I.)	03·3	-2	SW	2	bc	65	55	50	8	2	3	8	2-3	4-6	2500	1	*
Eskdalemuir	04·0	+4	SSW	4	bc	59	65	48	8	7	7	-	4-6	4-6	2200	1	*
Point of Ayre	04·1	0	S'W	4	b	61	85	57	8	2	-	-	1	1	1600	0	3
Tiree	01·1	-4	SSE	2	c	58	85	52	8	5	-	-	7-8	7-8	3500	0	3
Stornoway	01·3	-4	SE	3	bc	57	85	51	8	2	4	4	1	2-3	3500	1	2
Dalwhinnie	01·8	-4	SSW	3	c	61	55	46	8	8	3	-	2-3	7-8	2500	0	*
Aberdeen	03·5	-8	SSW	3	c	57	92	54	7	8	2	-	2-3	10	2100	1	2
Wick	03·2	-6	ESE	3	c	57	75	49	9	5	7	2	4-6	9	2500	0	*
Sumburgh	05·2	+2	SE'S	3	c	55	85	51	9	5	-	8	Tr	9	2000	1	3
Blacksod Point	98·9	+2	S	5	c/pr	59	85	55	8	9	-	-	9	9	1500	1	4
Malin Head	00·4	+4	S'W	3	c/r	60	75	52	8	5	2	-	4-6	10	2500	1	2
Aldergrove	01·9	-6	SSE	3	pr	62	75	53	8	8	-	-	9+	9+	2500	1	*
Birr Castle	00·9	-4	SSW	3	c	66	65	55	8	8	7	-	7-8	9	1500	1	*
Valentia Obsy.	01·0	-2	SSW	5	c	60	75	52	8	8	3	-	2-3	9	2500	1	4
Roches Point	02·7	-6	SSW	4	bc/pr	62	85	58	8	3	3	-	2-3	4-6	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.–13h. 4th (39)	Weather 13h.–18h. 4th (40)	Weather 18h. 4th to 1h. 5th (41)	Weather 1h.–7h. 5th (42)
London (Kew)	cidomoc	c	croc	croc
Croydon	cdodomoc	c	cbcc	cidoc
S. Farnborough	cmododoc	cirocdod	cddrorcm	cdcdmo
Boscombe Down	cdodomoc	docdododd	cidodomo	cdodmoc
Thorney Island	cidobcz	bcc	circ	cmc
Lympne	bc	bccbc	bccbc	bcb
Manston	cbc	bccbc	cbcmo	bcmobc
Shoeburyness	cbcy	bcyc	cbc	c
Felixstowe	cbc	bcc	bc	bccbc
Gorleston	cbc	bcc	bc	bc
Mildenhall	cbcy	cy	cyc	c
Cranwell	cdodomoc	c	cbc	bccrorcmo
Birmingham	oriro	crrbc	bcc	crc
Upper Heyford	idomoido	cidoid	mDDcmo	rrmroc
Ross-on-Wye	odor	dorcbc	cv	cpobcc
Hartland Point	rrc	cbc	bcc	cbc
Bristol	cidorr	idoc	c, pro	cpro bcc
Portland Bill	o	oddo	o	c
Plymouth	orrm	ororomobc	cprocmo	cmobcmo
The Lizard	ffrrc	bcc	c	bccpr
Scilly (St. Mary's)	rfrrbc	bc	bccbc	bcpo
Guernsey				
Pembroke	rorobdrr	bc	bcc	cprjp
Holyhead (Valley)	ciro	cbccbc	bbwcw	cwc
Chester (Sealand)	rrRRmo	crrmocpro	bcc	cbcbmo
Manchester	rroro	rroro	cbc	bcc
Spurn Head	o	c	c	ro
Catterick	cmocirm	crorobc	cbccmo	cmofbc
Tynemouth	cpo	orrmc	cbc	bccmo
St. Abbs Head	c	cmrmorrc	b	bbcb
Leuchars	c	c	cbcb	bbcw
Renfrew (Abbots I.)	cbccy	cybcy	bcc	cirobcc
Eskdalemuir	ciroc	cbc	bcc	c
Point of Ayre	c	cbcb	bbcc	bcc
Tiree	bc	bcc	cir	cbc
Stornoway	cpro	bc	bcc	cpr
Dalwhinnie	c	cy		cpr
Aberdeen	bbcyc	c	cbsb	bw
Wick	cbcv	c	bjfbc	bcjfb
Sumburgh	crrmobcb	bbcc	c,b,cm	cmodod
Blacksod Point	pr	pr	pr	pr
Malin Head	bc	pr	r	r
Aldergrove	bcc	cbcc;pr	cpro cbc	PRbc
Birr Castle	c	pr	*	b=
Valentia Obsy.	pr	bc	pr	pr
Roches Point	pr	pr.	pr	pr

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

Districts	Forecast
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 southerly winds; bright periods; showery thunderstorms developing later to-day: warm and close.
16 Orkneys and Shetlands	As 1-15.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Moderate southerly wind becoming light, variable; thunderstorms developing later to-day: average temperature.

GENERAL INFERENCE

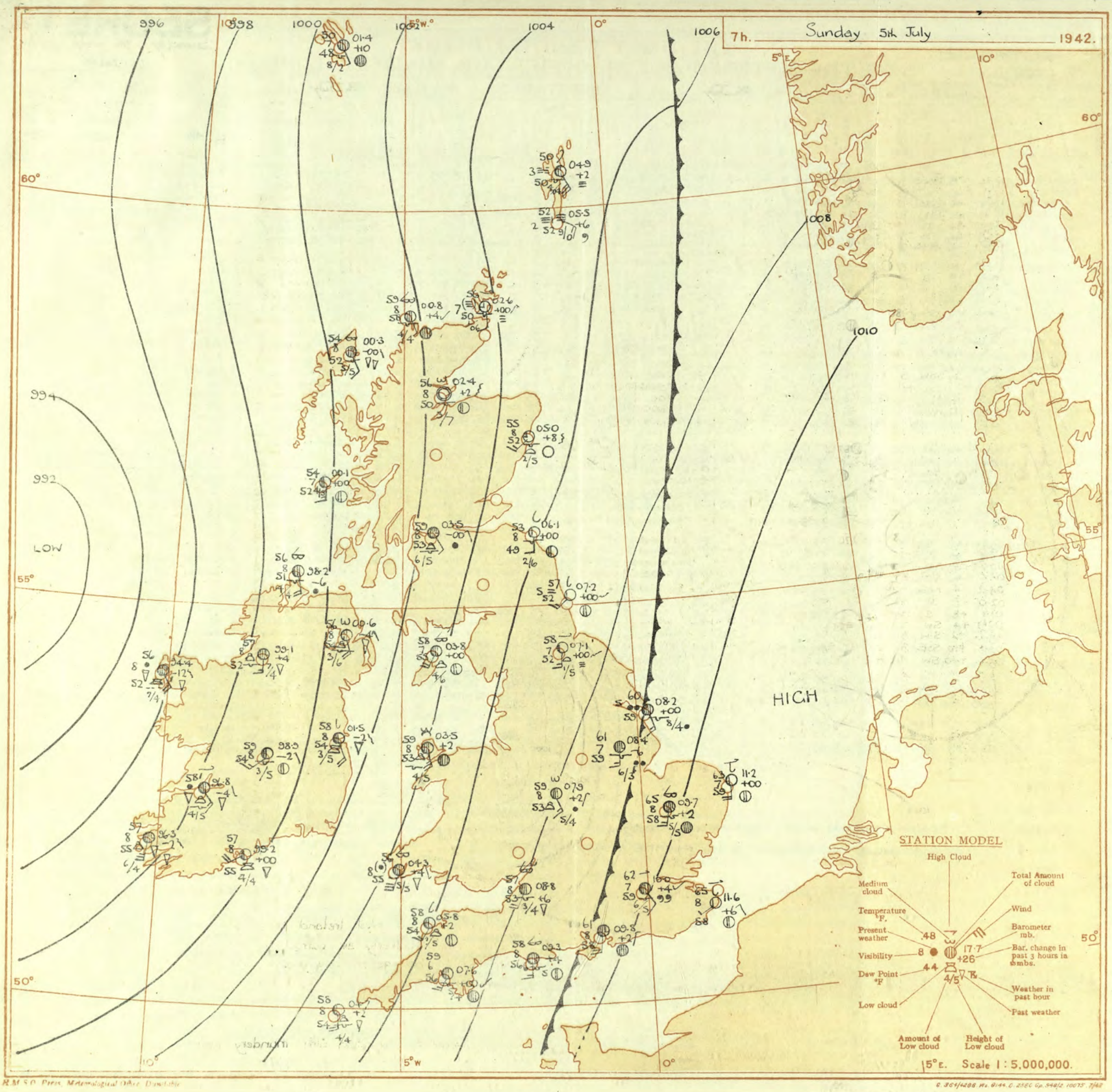
A depression off West Ireland is moving slowly east and a warm moist southerly air current is flowing over the British Isles. Weather will be generally unsettled and close with showers and thunderstorms.

FURTHER OUTLOOK

Generally unsettled with thundery rain.

Forecasts issued at 1030

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press. Meteorological Office. Dunstable

G. 364/4288. Wt. 8144. C. 2560 Gp. 548/2. 10075. 7/42

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.

BRITISH SECTION

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

Sunday 5th July 1942

No 29445

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)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	290	10·6	-6	SSW	1	c	61	85	57	8	5	3	-	4-6	7-8	3500
	S. Farnborough	226	10·1	-6	S'W	3	z_o	60	92	58	6	5	-	-	10	10	800
	Boscombe Down	417	09·4	-10	SSE	3	4_o	58	97	57	5	6	2	-	9+	10	200
	Thorney Island	10	10·3	-8	S	2	c	62	85	58	7	5	-	-	9	9	4600
	Lympne ...	283	13·1	-2	-	0	bc	58	97	57	7	5	4	-	4-6	4-6	4000
	Manston ...	154	11·4	-6	S'E	1	z_o	59	85	54	6	-	3	6	0	4-6	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	11·0	-2	S'W	3	bc	64	85	59	8	-	-	2	0	4-6	-
	Gorleston ...	5	11·5	0	SSW	3	bc	62	85	58	7	-	7	-	0	4-6	-
	Mildenhall ...	15	10·2	-2	SSW	3	c	63	85	59	7	5	-	-	7-8	10	1700
	Cranwell ...	203	08·5	-2	S'W	3	bc	60	92	58	7	5	-	-	7-8	7-8	1000
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	08·5	-6	SSW	3	3_o	59	92	57	6	5	-	-	9	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	07·0	-8	S	3	c	55	97	54	8	4	-	-	7-8	7-8	1500
	Bristol ...	209	08·9	-6	SSE	4	pr	56	92	54	8	6	7	-	2-3	9+	1500
	Portland Bill ...	32	09·3	-8	S	3	o	56	92	54	7	5	-	-	10	10	2500
	Plymouth ...	82	08·3	-8	SSW	2	z_o	57	97	56	6	5	7	-	4-6	9+	1200
	The Lizard ...	240	07·9	-8	SW'S	3	c	57	87	57	8	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	05·9	-14	SSW	4	bc	57	92	54	7	8	6	-	1	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	05·4	-10	S	5	c	56	92	54	8	8	-	-	7-8	7-8	4000
7	Holyhead (Valley)	32	04·5	-4	S	5	c	57	85	53	8	5	-	-	9	9	3000
	Chester (Sealand)	16	07·0	+2	SSE	2	c	54	92	52	8	5	3	8	1	7-8	2800
8	Manchester ...	235	07·1	-2	SSE	2	bc	56	85	52	7	5	3	-	4-6	7-8	3000
10	Spurn Head ...	29	08·4	+2	S'W	4	c	60	92	57	7	7	2	-	4-6	7-8	2500
	Catterick ...	175	07·6	-2	SW	1	z_o	56	92	54	6	5	7	-	7-8	9	2500
	Tynemouth ...	108	07·0	-2	S	2	bc	56	92	53	6	5	-	-	4-6	4-6	2500
11	St. Abbs Head	280	05·5	+4	S	2	bc	52	92	50	8	4	4	-	1	2-3	3500
	Leuchars ...	36	04·8	+6	WSW	1	b	52	97	52	7	5	7	-	Tr	1	2500
12	Renfrew (Abbots I.)	19	03·9	-4	ESE	2	c	56	85	51	7	5	4	-	7-8	7-8	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	04·6	0	SW'S	4	bc	55	97	54	8	4	4	-	2-3	2-3	1000
13A	Tiree	22	01·1	0	S'E	3	c	54	92	52	7	5	-	-	9+	9+	1800
13B	Stornoway ...	80	00·8	-6	SE	3	c	55	85	51	8	5	7	-	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	04·6	+14	S'E	1	z_o	46	97	45	7	-	3	1	0	2-3	-
	Wick ...	114	03·2	+2	ESE	2	bc	51	92	50	8	5	-	6	Tr	2-3	1000
16	Sumburgh ..	19	05·0	+6	ESE	2	m	52	97	52	4	5	-	-	10	10	150
17	Blacksod Point	18	96·9	-18	SSE	4	c/pr	56	85		8	9	-	-	9	9	1500
18	Malin Head ...	84	99·6	-6	S'E	4	c/r	55	92	53	8	5	2	-	4-6	9+	2500
	Aldergrove ...	268	02·0	-2	SSE	2	bc	54	85		8	5	3	-	4-6	7-8	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	98·3	-8	SSW	4	bc	55	92	53	8	8	-	-	7-8	7-8	2500
	Roches Point	22	00·8	-12	S'W	4	bc	57	92	55	8	3	-	5	2-3	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 5th 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)	09·7	+6	SSW	2	c	62	85	59	7	5	-	-	9+	9+	1500	1	*
Croydon ...	10·0	+4	SE'S	2	c/d	62	85	59	7	5	-	1	9	9	2000	1	*
S. Farnborough	09·5	+4	SSW	3	z_o	60	92	58	6	7	7	-	7-8	10	1000	1	*
Boscombe Down	09·4	+10	SSE	3	c	57	92	55	8	5	3	-	9+	10	800	1	*
Thorney Island	09·8	+2	S'W	3	c	61	92	58	8	5	4	-	9	9	5700	0	*
Lympne ...	11·6	-6	SW	1	bc	65	75	58	8	-	4	1	0	2-3	-	0	§
Manston ...	10·6	+2	S	1	bc	65	85	59	7	1	7	-	1	2-3	4000	0	*
Shoeburyness ...	11·0	-2	WSW	2	bc	67	75	59	8	5	8	8	2-3	4-6	3500	0	*
Felixstowe ...	10·3	0	S'W	3	bc	66	85	61	8	-	7	2	0	4-6	-	0	3
Gorleston ...	11·2	0	S	4	bc	63	85	59	7	-	4	1	0	2-3	-	0	3
Mildenhall ...	09·7	+2	S'W	3	c	65	75	56	8	5	7	-	7-8	9+	2500	0	*
Cranwell ...	08·4	+6	S	3	c/r	61	92	59	7	5	-	-	9	9+	600	1	*
Birmingham ...	08·0	+2	S	3	bc	57	85	53	8	5	3	-	4-6	7-8	800	1	*
Upper Heyford	08·4	+6	SSE	3	c	59	92	57	8	6	3	9	7-8	7-8	1200	1	*
Ross-on-Wye	07·5	0	SW'S	2	c	60	85	53	8	8	-	1	7-8	7-8	3000	1	*
Hartland Point	05·8	-2	SSW	3	bc	58	85	54	8	2	4	-	Tr	4-6	2000	1	3
Bristol ...	08·8	+6	SSW	4	c	57	85	53	8	5	7	2	2-3	7-8	1500	1	*
Portland Bill ...	09·3	+4	S	3	c	58	92	56	8	5	7	-	9	10	2500	1	4
Plymouth ...	07·6	0	SSW	3	z_o	59	92	56	6	5	-	-	7-8	7-8	1500	0	3
The Lizard ...	06·4	0	SSW	4	c/pr	58	92	56	8	8	6	-	7-8	7-8	1500	1	4
Scilly (St. Mary's)	04·7	+2	S'W	4	bc	58	85	54	8	8	-	-	4-6	4-6	1200	1	4
Guernsey ...																	
Pembroke ...	04·3	-4	S'W	6	c/p	56	97	55	8	6	7	-	7-8	9	2000	1	3
Holyhead (Valley)	03·5	+2	SSE	5	c	59	85	53	8	8	6	-	4-6	7-8	2000	0	3
Chester (Sealand)	06·4	-4	SE'S	2	bc	57	85	53	6	4	-	-	2-3	2-3	4500	1	*
Manchester ...	06·9	+4	SSE	3	bc	59	85	53	6	2	3	9	4-6	4-6	2500	1	*
Spurn Head ...	08·2	0	S'E	3	r_o	60	97	59	5	5	-	-	10	10	1500	1	3
Catterick ...	07·1	0	S	3	bc	58	85	52	7	1	4	1	Tr	2-3	2500	1	*
Tynemouth ...	07·2	0	SSW	3	m	57	85	52	5	-	4	-	0	2-3	-	1	3
St. Abbs Head	06·1	0	S	2	bc	53	85	49	8	4	4	-	1	2-3	3500	0	2
Leuchars ...	04·3	-2	SSW	2	b	58	85	54	8	5	-	-	1	1	4000	0	*
Renfrew (Abbots I.)	03·5	0	SE	1	c	59	85	53	8	8	-	-	9	9	2300	1	*
Eskdalemuir ...	04·9	+2	S'E	2	c	54	85	50	8	5	-	-	9+	9+	1800	1	*
Point of Ayre ...	03·8	0	S'W	4	c	58	92	55	7	2	7	3	4-6	7-8	3000	0	3
Tiree	00·1	0	S'E	3	bc	54	97	52	7	5	-	-	4-6	4-6	2500	0	4
Stornoway ...	00·3	0	SSE	2	c/pr	54	92	52	8	5	7	-	7-8	10	2500	1	1
Dalwhinnie ...	03·8	0	S	3	pr	53	85	50	7	5	-	-	9+	9+	1500	1	*
Aberdeen † ...	05·0	+8	SSW	3	b	55	92	52	8	7	-	-	1	1	2500	1	2
Wick ...	03·2	+6	SE	2	b	55	85	50	8	5	-	-	Tr	Tr	3000	0	*
Sumburgh ..	05·5	+6	ESE	3	f-	52	97	52	2	-	-	-	10	10	150	1	2
Blacksod Point	94·4	-12	SE	4	PR	56	85	52	8	9	-	-	9+	9+	1500	1	3
Malin Head ...	98·2	-6	SSE	4	c	56	85	52	8	5	7	-	4-6	7-8	1500	1	2
Aldergrove ...	00·6	-4	SSE	4	bc	56	92	54	8	8	3	-	2-3	4-6	4500	1	*
Birr Castle ...	98·9	-2	SSW	3	bc	59	85	55	8	5	-	-	2-3	4-6	2500	1	*
Valentia Obsy.	96·3	-2	S'W	5	c/pr	57	92	55	8	2	-	-	9	9	1500	1	4
Roches Point	99·2	0	SW	4	bc	57	92	55	8	3	-	3	4-6	4-6	1500	1	3

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 48h. Hrs. (38)
London (Kew)	69	60	56	Tr	0·5	2·5
Croydon ...	71	58	55	0·1	Tr	4·9
S. Farnborough	69	59	57	0·3	1	2·2
Boscombe Down	62	56	54	1	2	0·0
Thorney Island	69	60	58	Tr	Tr	*
Lympne ...	70	56	*	-	-	7·0
Manston ...	72	59	54	-	-	6·2
Shoeburyness ...	75	59	41	-	-	5·6
Felixstowe ...	73	59	51	-	-	5·4
Gorleston ...	68	60	54	-	-	5·2
Mildenhall ...	75	59	56	-	-	4·2
Cranwell ...	*	55	50	0·1	0·2	0·5
Birmingham ...	64	55	52	6	1	1·3
Upper Heyford	63	58	57	Tr	3	*
Ross-on-Wye	66	55	51	2	0·2	2·1
Hartland Point	61	54	51	27	-	4·8
Bristol ...	64	56	56	4	0·3	1·8
Portland Bill ...	59	55	*	Tr	-	*
Plymouth ...	62	55	53	5	Tr	5·0
The Lizard ...	63	55	*	12	Tr	5·4
Scilly (St. Mary's)	63	56	*	13	Tr	8·2
Guernsey ...						
Pembroke ...	60	49	*	10	Tr	5·3
Holyhead (Valley)	61	51	52	Tr	-	*
Chester (Sealand)	68	50	43	16	-	2·3
Manchester ...	66	54	49	14	0·1	*
Spurn Head ...	66	58	*	Tr	1	1·4
Catterick ...	64	52	47	20	-	2·6
Tynemouth ...	60	54	52	13	-	*
St. Abbs Head	68	49	*	4	-	*
Leuchars ...	70	47	39	-	-	7·9
Renfrew (Abbots I.)	65	54	47	-	0·3	6·9
Eskdalemuir ...	62	49	47	0·2	-	2·8
Point of Ayre ...	66	54	*	-	-	6·9
Tiree	63	53	*	-	0·5	10·5
Stornoway ...	61	52	*	0·1	1	10·4
Dalwhinnie ...	63	47	38	Tr	0·3	8·4
Aberdeen † ...	65	50	39	-	-	6·3
Wick ...	67	48	43	-	-	*
Sumburgh ..	58	49	45	3	Tr	6·4
Blacksod Point	62	53	*	3	4	*
Malin Head ...	68	54		0·4	0·4	8·3
Aldergrove ...	66	53	48	Tr	4	8·7
Birr Castle ...	67	54	50	0·6	-	7·9
Valentia Obsy.	64	54	51	0·5	3	6·5
Roches Point	64	56	*	1	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 4th July ... 18h. G.M.T. IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 5th July ... 07h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109	7-	00943	19313	89	02863	10425	5-	08418	11228	50	03721	15241
115				54	02954	12225	54	02954	08225	57	02844	12125
203							5-	02847	16227			
206	8-	01964	08224	23	02964	08427	53	01862	00023	53	01873	00013
210	83	01954	31325	71	02963	03327	43	01862	16313	74	00962	11212
220	50	01854	14404	53	01953	14214						
230	8-	02955	32125	83	01963	18113	52	81856	00088	83	81845	18287
245	8-	03862	14418	52	05643	16227	50	00751	24212	50	01865	15315
260	11	02953	15317	8-	02961	15311	53	00861	17302	77	02965	16115
278	5-	02943	16226	17	01842	14313	5-	02848	13328	62	82625	47488
279	87	02863	19328	24	01864	19484	54	01852	18213	5-	02756	14226
285	02	64628	22268									
288	62	64746	18368	24	01844	51464	07	05690	16216	17	01852	17313
575	86	02856	16327	84	25855	16285	47	01854	12324	8-	02847	16387
301	52	64625	24168				03	01790	32214	04	05690	14421
321	52	61647	16568	27	00761	18361	07	02690	19318	04	05690	18464
299							50	01754	20214	50	62648	22168
292	62	59446	17368	83	02754	21124	57	05554	14127	8-	05555	14225
310	--	61652	02746									
614	52	05545	18458	86	02744	18365	57	05645	18326	23	05655	20265

	13h. G.M.T. 4th July ... 18h. G.M.T. IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 5th July ... 07h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
333	5-	62638	14268	24	01842	18462	5-	02846	18416	54	02835	16426
334	--	66547	26286	--	25646	28287						
340	62	64636	16468	2-	02956	20466	5-	02867	16217	14	00843	16413
136	53	05644	16524	93	02766	19417	07	01790	19465	57	02754	14327
336				57	02765	20428						
350	5-	02758	49558	5-	61748	51428	5-	51538	16258	27	01752	14364
368	57	62634	20267	80	01944	20268	5-	02857	12217	8-	01944	18314
379	6-	63628	53568	52	21737	53468	5-	05647	20217	83	02935	16466
390	44	02734	49525	5-	01758	50528	5-	05656	16228	5-	02747	16327
882	5-	22848	50568	62	52637	17358				8-	02856	18326
438	5-	02858	20428	87	02864	20426				53	01763	22213
430	5-	02757	18527	57	02755	51328	5-	02748	00028	--	02736	20128
409	5-	57109	24369	50	02944	21415	50	01733	15413	53	02864	17515

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	cidomoc	c	c+c	Kew 24 hours ended 7h. Max. Time 0·1 whole Min. Time Period
Croydon ...	cdodomo	c	cidoc	
Greenwich ...	cy	cy	c	
Camden Square			*	
Kensington ..			*	
Hampstead ...				

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	60	56	Tr	0·5	3·5	*	*
Croydon ...	71	58	55	0·1	Tr	4·9	*	*
Greenwich ...	72	57	43	-	-	4·1		
Westminster ..								
Regents Park ..								
Camden Square						*	*	
Kensington ..								
Hampstead ...							*	

Page 1 BRITISH SECTION

SECRET

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

Monday 6th July 1942

No. 29446

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)	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)	08·6	-8	SW	3	c	69	65	57	8	7	-	8	7-8	9	2500
	Croydon	08·6	-10	S	3	bc	74	65	59	9	2	-	2	4-6	4-6	2500
	S. Farnborough	08·4	-8	SW'W	4	c	70	65	55	9	8	7	-	9	9+	1200
	Boscombe Down	08·7	-4	S'W	4	c/pr	65	85	58	8	8	7	-	4-6	9	1800
	Thorney Island	09·3	-4	S'W	3	c	67	75	57	9	8	6	6	2-3	9+	2500
	Lympne	10·0	-10	WSW	1	c	73	55	57	8	-	3	-	0	9+	-
	Manston	08·5	-8	SW	2	c	77	55	60	8	8	-	-	9+	9+	4000
2	Shoeburyness	09·4	-8	S	2	c	79	55	59	8	1	8	6	2-3	7-8	3000
	Felixstowe	09·1	-6	SE	3	c	74	75	63	8	1	8	2	1	7-8	4000
	Gorleston	09·2	-14	SES	3	bc	64	75	58	7	2	7	4	2-3	4-6	3000
	Mildenhall	07·7	-16	SSW	4	c	75	55	57	8	2	1	2	7-8	9	2000
	Cranwell	07·0	-6	S	5	c	72	55	55	8	2	3	9	4-6	9	2500
3	Birmingham	06·5	-6	S	4	bc	67	55	51	8	1	-	1	4-6	4-6	2500
	Upper Heyford	07·2	-8	S'W	4	c	68	65	56	8	8	3	8	7-8	9	1800
4	Ross-on-Wye	06·2	-10	SSW	4	bc	70	55	52	9	7	-	1	4-6	4-6	4000
5	Hartland Point	05·3	0	SW	4	c/pr	60	85	53	8	3	6	-	4-6	7-8	2000
	Bristol	08·0	-4	S'W	5	c	66	55	50	9	2	6	8	4-6	7-8	4000
	Portland Bill	09·2	+6	S	3	c	60	92	58	8	2	4	-	4-6	10	4000
	Plymouth	07·7	0	SW'S	4	bc	62	85	58	7	9	7	-	2-3	2-3	2000
	The Lizard	06·7	+4	SSW	5	bc	63	85	58	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	05·1	0	SSW	4	bc	64	75	57	8	8	-	-	2-3	2-3	1200
	Guernsey															
6	Pembroke	04·5	-2	S'W	6	bcq	60	85	55	8	2	4	-	2-3	2-3	3000
7	Holyhead (Valley)	03·0	-6	S	6	c	65	75	56	8	8	-	-	7-8	7-8	2500
	Chester (Sealand)	04·5	-12	S'E	3	bc	70	55	55	7	8	6	-	4-6	4-6	3000
8	Manchester	05·4	-14	S	4	c	67	55	50	9	2	6	-	4-6	7-8	2500
10	Spurn Head	07·4	-6	S	4	c	68	75	58	7	7	7	-	7-8	10	1500
	Catterick	05·3	-10	S'E	4	c	70	45	48	7	8	-	-	7-8	7-8	3500
	Tynemouth	06·1	-4	SE	3	zo	58	85	53	6	8	-	-	4-6	4-6	2600
11	St. Abbs Head	05·5	+4	S	4	zo	60	75	52	8	8	-	-	9	9	3000
	Leuchars	03·1	-10	SE	3	c	67	85	61	8	2	6	-	4-6	9	2000
12	Renfrew (Abbots I.)	02·4	-10	S'E	3	c	66	65	52	8	2	3	1	9+	9+	2500
	Eskdalemuir	03·4	-6	SSW	4	pr	60	75	50	8	8	-	-	9+	9+	1800
	Point of Ayre	03·7	0	S'W	4	bc	61	85	57	8	8	4	6	4-6	4-6	2000
13A	Tiree	99·2	-10	SSE	4	bc	61	85	56	7	5	3	-	2-3	4-6	3500
13B	Stornoway	00·2	-2	SSE	3	zo	59	54	85	8	5	7	-	7-8	9+	2500
15	Dalwhinnie	01·2	-4	S	3	c	58	75	54	7	5	-	-	9+	9+	2500
	Aberdeen	04·6	-6	S	4	b	62	75	54	7	8	-	-	1	1	2500
	Wick	02·3	-6	SSE	3	bc	60	75	53	9	1	3	-	1	2-3	4000
16	Sumburgh	05·2	-2	SE	5	zo	56	85	53	6	5	-	-	7-8	7-8	800
17	Blacksod Point	93·3	+10	S	5	c/pr	59	85	54	8	9	-	-	9	9	1500
18	Malin Head	95·6	-18	S'E	4	c	64	75	56	9	3	-	-	7-8	7-8	2500
	Aldergrove	99·6	-6	SSE	3	bc/tlr	58	92	55	8	3	-	-	4-6	4-6	2500
19	Birr Castle	97·6	-10	SSW	4	c	62	75	54	8	8	-	5	7-8	9	1500
20	Valentia Obsy.	96·9	+6	SW'S	6	c	61	75	53	9	2	-	2	9	9+	2500
	Roches Point	99·3	+4	SSW	6	bc/pr	61	85	56	8	3	-	3	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 5th 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. 25th (39)	Weather 13h.–18h. 25th (40)	Weather 18h. 25th to 1h. 26th (41)	Weather 1h.–7h. 26th (42)
London (Kew)	07·0	-8	SW	4	c	71	55	51	8	7	-	6	2-3	7-8	2500	0	*	c	cbcy	bcyc	c
Croydon	07·5	-6	SW	2	c	71	65	57	9	1	4	6	1	7·8	2800	0	*	cbc	cyvbcv	c	cbc
S. Farnborough	07·4	-8	SW'S	4	c	68	55	50	9	1	7	4	Tr	7-8	2500	0	*	cmobcc	cbcvy	bcyc	cbc
Boscombe Down	08·1	-2	SW'S	4	c	64	65	54	9	1	3	8	2-3	9	3000	0	*	cpfopfo	ccyc	c	ofecpr
Thorney Island	08·6	-2	W	3	c	65	65	53	9	2	6	7	Tr	10	2500	0	*	ccv	cv	cbc	bcc
Lympne	08·1	-14	W	2	c	73	55	56	8	3	6	3	2-3	9+	6000	0	§2	bc	cbccy	tlifo	efofo bc
Manston	06·7	-6	E'N	1	E	71	75	61	8	9	-	-	9+	9+	3000	0	*	bbcy	bcyct	cifomo	cifozo,cv
Shoeburyness	07·4	-14	WSW	2	c	76	55	57	8	2	3	6	2-3	7-8	3000	0	*	bccy	cy		cfoc
Felixstowe	06·7	-14	SE	3	c	68	75	61	8	8	-	2	4-6	9+	4000	0	2	bcc	cbcc	cifomoc	ccifomoc
Gorleston	07·4	-10	S'E	3	c	65	85	59	7	8	7	-	4-6	7-8	2500	0	3	bc	cpfo	ctlfoc	cofofo
Mildenhall	06·1	-10	WSW	4	bc	76	45	54	8	2	-	2	1	4-6	2000	0	*	cidoc	cybcy	bcbcl	c
Cranwell	05·5	-12	SW'S	4	c	72	45	52	8	5	4	6	1	9	3500	0	*	c	cbcycy	bybcy	bcbcmo
Birmingham	05·8	0	SSW	3	c	67	55	51	8	1	-	6	2-3	7-8	2500	1	*	bc	bcc	c	cpfo bc
Upper Heyford	06·2	-2	SSW	4	c	68	55	50	9	1	4	8	1	9+	3000	0	*	bccpfo	c	cybcc	ccmo
Ross-on-Wye	05·8	-4	S'W	4	c	67	65	54	8	1	-	7	4-6	9	3500	0	*	cbc	bcyc	bcb	bwbc
Hartland Point	05·2	+2	WSW	4	c	61	85	55	8	2	-	4	4-6	7-8	2800	1	4	bccpo	cprbc	cbcpr	bbcc
Bristol	07·3	-2	S'W	5	c	64	65	52	8	2	6	6	Tr	9+	4000	0	*	cbccv	cyvcv	cdcbbc	bbccw
Portland Bill	08·1	-6	SSW	3	c	59	92	57	8	5	-	-	10	10	4000	1	3	c	uc	c	cpr
Plymouth	07·4	-2	SSW	4	c	61	85	58	8	8	-	2	9	9+	1500	0	3	cbc	bc	cbc	bcc
The Lizard	06·9	0	SSW	4	c	62	85	57	8	8	6	-	7-8	7-8	2500	0	4	bccbc	bcc	cbcpr	cprbc
Scilly (St. Mary's)	05·3	+2	SSW	4	bc	62	75	55	8	8	-	-	4-6	4-6	1200	1	4	bccbc	bcpbc	bc	cbcop
Guernsey																					
Pembroke	04·5	+2	SW	5	bcq	59	85	55	8	2	4	1	2-3	4-6	3000	1	4	cbcq	bcq	bc	bcpfo
Holyhead (Valley)	02·8	-2	SSW	6	bc	61	75	54	8	2	6	3	1	2·3	2500	1	4	cprbc	cbcb	b	bbcw
Chester (Sealand)	04·2	-6	SSW	3	bc	69	55	53	8	3	6	3	4-6	4-6	2400	0	*	bcbcyp	cprbcy	bcyb	cbcmo
Manchester	04·3	0	SSW	3	c	67	65	53	9	2	6	3	4-6	7-8	2500	0	*	bcy	bbcbcy	bccbc	bccbc
Spurn Head	05·6	-10	SSW	3	bc	70	65	57	7	7	7	1	4-6	4-6	2500	0	2	c	c	b	cmo
Catterick	04·5	0	W'S	2	c	68	55	52	7	2	-	5	2-3	9	3000	0	*	bcycy	bcycy	bc	bcmoc
Tynemouth	05·1	+4	WSW	3	c	65	65	52	7	8	-	-	7-8	7-8	2800	1	3	bcmo	bcc	b	bcmo
St. Abbs Head	03·8	+4	S	3	bc	62	75	55	7	5	-	-	4-6	4·6	2500	1	3	bbccmo	cmobcrc	bccbc	bc
Leuchars	02·4	0	S	3	c/pr	64	85	61	8	8	6	3	7-8	7·8	3000	0	*	bcbcc	tlrfoprfoc	b	bbcb
Renfrew (Abbots I.)	01·4	-6	S'E	4	c	64	55	49	8	3	6	3	4-6	7·8	2000	1	*	cpfoc	cPRbc	bc	bccpfo
Eskdalemuir	02·6	-2	SW	3	b	61	75	51	8	9	-	4	4-6	4-6	1100	1	*	cpfo	cpr bct	bctbc	bc
Point of Ayre	02·7	-4	SW'S	4	bc	63	75	56	8	4	4	-	2-3	4-6	3000	0	4	cprbc	bccbc	bcb	b
Tiree	97·0	-10	SSE	4	bc	57	85	52	8	5	3	-	4-6	4-6	2800	0	5	bc	bc	ciRtbc	bc
Stornoway	98·9	-6	E	5	pr	56	85	52	8	5	7	-	7-8	9+	2600	1	2	cpfo	cpr	cpr	CPR
Dalwhinnie	00·8	-2	S	3	bc	55	85	51	7	5	3	-	4-6	4-6	2500	1	*	cpfo	ctlrbc		pfobc
Aberdeen	03·7	-2	S'W	4	zo	60	85	56	6	8	-	-	9	9	2100	0	2	bcb	bbcczo	ccbcbzo	bzobcw
Wick	02·1	-2	SSE	1	pr	55	85	51	8	8	-	9	4-6	9+	3500	1	*	bbcbtpp	ccpfo	cm.b	bbc
Sumburgh	04·8	+2	SE'E	4	m	54	92	53	4	5	8	-	4-6	4-6	100	1		ofc,b,cm	cbcmoF	cbcb,of	ffdodof
Blacksod Point	92·7	0	S'W	5	bc/pr	57	85	52	8	3	-	-	4-6	4-6	1500	1	4	pr	pr	pr	bc
Malin Head	00·1	+2	S	2	c/tlr	57	92	55	7	9	2	-	4-6	9	1500	1	2	tlr	tlr	bc	pr
Aldergrove	98·1	-6	S	3	bcjp	60	85	54	7	9	-	3	4-6	4·6	2500	1	*	bccPRtlr	bcprcp	bjpbcjpb	bccbcc
Birr Castle	97·6	+4	SSW	4	c	62	65	50	8	3	-	5	4-6	7-8	1500	1	*	pr	pr		pr
Valentia Obsy.	99·0	+16	SW	5	c/pr	57	85	52	8	3	-	-	9+	9+	1500	1	5	pr	pr	pr	pr
Roches Point	00·6	+10	SW'S	5	bc/pr	60	85	55	8	3	-	5	4·6	4-6	1500	1	5	pr	pr	pr	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 6th July 1942.

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 southwesterly winds in the South, southerly in the North. Local thundery showers and thunderstorms; fair periods. Visibility mainly very poor, deteriorating in showers. Average temperature.

16 Orkneys and Shetlands: Moderate southerly wind. Considerable fog with slight occasional drizzle and poor visibility in Shetlands area; temperature being rather below average. Conditions in Orkneys similar to remainder of British Isles

17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland: As 0-15.

GENERAL INFERENCE

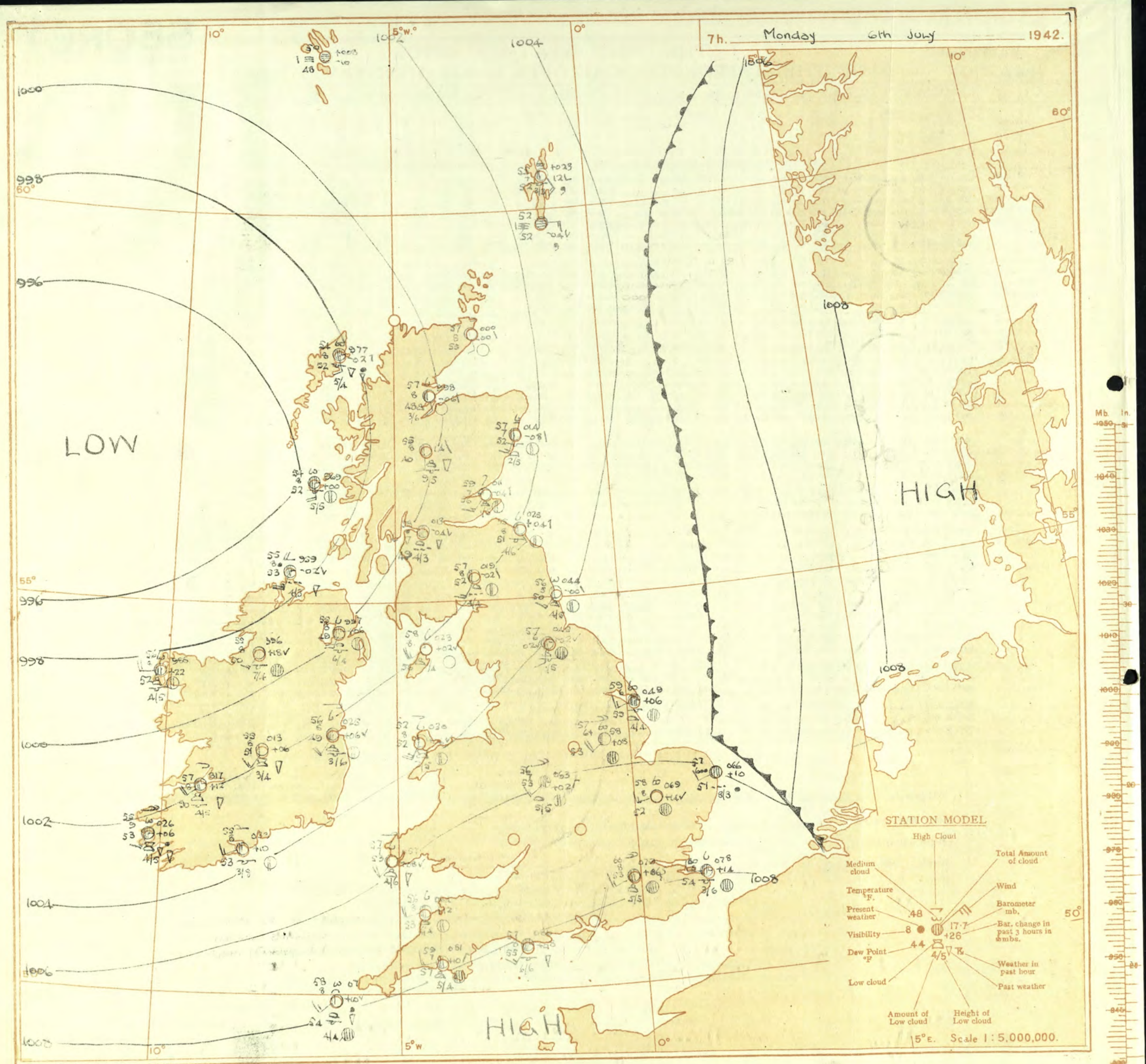
A depression centred northwest of the British Isles is almost stationary; local thundery showers or thunderstorms will occur in most districts, but with some bright intervals. Temperatures generally about average.

FURTHER OUTLOOK

Little change

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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).

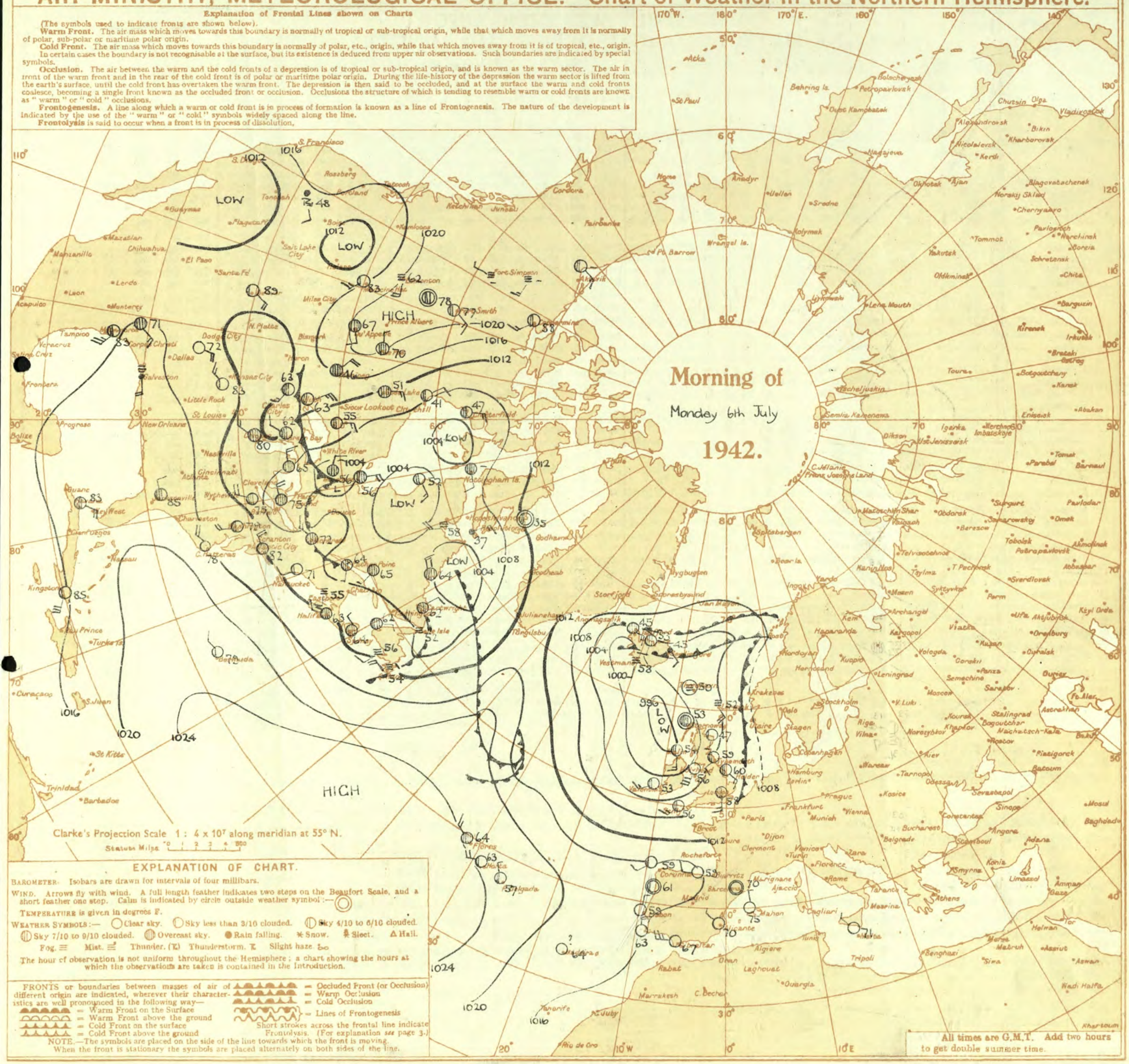
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Monday 6th July 1942

No. 29446

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)	°F. Dew Point (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	*	*	*	*	*	58	*	*	*	*	*	*	*	*	*
	Croydon ...	290	07·2	-2	S	3	c	58	85	52	8	5	4	6	7·8	7·8	5500
	S. Farnborough	226	07·5	+6	S	2	c	56	85	52	8	-	7	-	0	9	-
	Boscombe Down	417	07·7	-2	ESE	2	c	53	97	51	8	-	7	-	0	7·8	-
	Thorney Island	10	07·7	+6	SW	3	bc	59	85	55	7	-	7	-	0	4·6	-
	Lympne ...	283	08·4	+6	-	0	c	62	85	57	8	5	-	-	10	10	3000
	Manston ...	154	06·6	-6	S'E	1	ic	62	92	60	6	5	2	-	2·3	10	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	06·4	-2	S'W	2	c	65	75	56	7	5	-	-	9+	9+	5700
	Gorleston ...	5	07·0	+8	S	2	zo	63	85	60	6	8	-	-	10	10	1500
	Mildenhall ...	15	06·5	+2	SW	2	c	61	75	53	8	-	3	2	0	7·8	-
	Cranwell ...	203	06·2	+6	S'W	2	bc	55	92	52	7	-	3	2	0	4·6	-
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	06·1	+2	SW'S	2	c	55	85	51	8	-	7	8	0	9+	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	05·1	-6	WSW	4	b	56	92	54	8	1	-	-	Tr	Tr	-
	Bristol ...	209	07·4	+2	S	4	bc	55	92	52	8	5	4	1	Tr	2·3	2500
	Portland Bill ...	32	07·7	-2	SSW	3	c	58	92	56	8	5	-	-	7·8	7·8	4000
	Plymouth ...	82	07·0	-4	SSW	3	bc	58	97	57	7	5	-	-	2·3	2·3	1500
	The Lizard ...	240	06·5	-4	SW	3	bc/pr	56	92	54	8	8	-	-	4·6	4·6	2000
	Scilly (St. Mary's)	163	05·8	-2	SW	3	bc	56	92	55	8	8	4	-	2·3	4·6	1200
	Guernsey ...	175															
6	Pembroke ...	142	04·4	0	SW'S	4	bc	57	85	54	7	1	-	-	2·3	2·3	4000
7	Holyhead (Valley)	32	02·7	0	SSW	6	b	56	92	54	8	-	-	-	0	0	-
	Chester (Sealand)	16	04·9	+2	SE	1	bc	55	85	50	8	5	-	5	Tr	4·6	4000
8	Manchester ...	235	05·0	+2	SSW	3	c	57	85	51	7	5	-	-	2·3	10	3000
10	Spurn Head ...	29	05·3	-4	SE	3	bc	60	92	58	7	7	4	-	2·3	4·6	2500
	Catterick ...	175	05·0	+6	-	0	zo	54	92	51	6	-	3	1	0	2·3	-
	Tynemouth ...	108	04·9	+4	SW	2	zo	59	85	52	5	5	-	-	4·6	4·6	2500
11	St. Abbs Head	280	00·4	+2	SSW	1	bc	56	85	52	7	5	4	-	4·6	4·6	2500
	Leuchars ...	36	02·7	0	-	0	b	54	97	53	8	5	-	-	Tr	Tr	3000
12	Renfrew (Abbots I.)	19	01·7	0	SSE	2	bc	56	85	50	7	4	-	-	4·6	4·6	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	06·8	-2	SW	5	b	55	92	52	8	4	-	-	Tr	Tr	2500
13A	Tiree ...	22															
13B	Stornoway ...	80	98·0	-4	-	0	c/pr	52	92	50	7	5	7	-	7·8	9+	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	03·6	+8	S'W	1	zo	47	92	45	7	5	4	-	Tr	1	4500
	Wick ...	114	01·9	-6	S'E	4	b	54	92	51	8	5	-	-	1	1	4000
16	Sumburgh ..	19	04·0	0	SSE	3	f	51	97	51	2	-	-	-	10	10	<150
17	Blacksod Point	18	94·9	+6	SW'W	5	c/pr	55	92	53	8	9	-	-	9+	9+	1500
18	Malin Head ...	84	96·3	+10	S	3	bc	54	85	50	8	4	-	-	4·6	4·6	2500
	Aldergrove ...	268	99·2	+4	S'E	3	bc	54	85	48	8	5	-	-	2·3	2·3	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	01·6	+10	SW'W	3	bc/pr	53	97	52	8	3	-	-	4·6	4·6	2500
	Roches Point	22	01·2	+4	SW	4	b	54	92	52	8	5	-	-	1	1	1500

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)	°F. Dew Point (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)	07·9	+10	WSW	3	c	59	86	52	7	5	-	-	9+	9+	2500	0	*
	Croydon ...	07·9	+6	SW'W	3	c	60	85	53	8	2	-	2	7·8	7·8	2000	0	*
	S. Farnborough	08·6	+16	WSW	3	bc	59	75	52	7	7	4	-	4·6	4·6	1600	0	*
	Boscombe Down	08·3	-2	SW	3	c/pr	57	92	55	8	2	4	-	4·6	7·8	2000	0	*
	Thorney Island	08·7	+10	SW'W	3	c	59	85	52	9	2	-	-	9	9	1400	0	*
	Lympne ...	08·8	+10	W'N	2	bc	60	85	54	8	1	6	3	Tr	2·3	1500	0	§ 1
	Manston ...	07·8	+14	W	2	c	60	85	54	8	5	9	-	2·3	9	4000	1	*
2	Shoeburyness ...																	*
	Felixstowe ...	07·1	+18	W'S	3	c/r	59	85	53	7	5	7	-	7·8	9+	5000	1	2
	Gorleston ...	06·6	+16	WSW	2	ic	57	85	51	6	6	-	-	10	10	800	1	
	Mildenhall ...	06·9	+14	WSW	3	c	58	85	52	8	-	7	8	0	9	-	0	*
	Cranwell ...	05·8	+8	SW'W	4	zo	57	85	53	6	-	7	2	0	4·6	-	0	*
3	Birmingham ...	06·3	+4	SSW	2	c	54	92	52	6	5	7	-	9	10	1500	1	*
	Upper Heyford	06·8	+6	SSW	2	c	55	92	52	7	5	-	2	7·8	7·8	600	0	*
4	Ross-on-Wye	06·7	+6	SSW	4	bc	58	85	52	7	1	5	9	2·3	4·6	3000	0	*
5	Hartland Point	06·4	+12	WSW	4	c	56	92	53	8	2	4	-	4·6	7·8	1200	1	4
	Bristol ...	08·0	+6	SW'S	4	c	58	85	52	8	2	6	9	Tr	7·8	4000	0	*
	Portland Bill ...	08·6	+8	SW	3	c	57	92	55	8	5	-	-	9	9	4000	1	3
	Plymouth ...	08·1	+10	WSW	3	c	59	92	57	7	8	-	-	7·8	7·8	1200	0	3
	The Lizard ...	07·8	+10	WSW	4	bc	57	92	52	8	2	6	-	4·6	4·6	2500	1	4
	Scilly (St. Mary's)	07·1	+10	SW'S	3	bc/pr	58	85	54	8	8	6	-	4·6	4·6	1200	1	3
	Guernsey ...																	
6	Pembroke ...	05·7	+8	SW'W	4	bc	57	85	53	7	2	4	1	4·6	4·6	3000	1	
7	Holyhead (Valley)	03·0	+6	SSW	5	bc	57	85	52	8	3	4	3	1	2·3	2500	1	3
	Chester (Sealand)	05·2	+2	SE'S	2	bc	58	85	52	6	7	6	9	4·6	4·6	4000	1	*
8	Manchester ...	05·1	+6	S	3	bc	57	85	53	7	1	3	1	1	2·3	4000	0	*
10	Spurn Head ...	04·9	+6	WSW	3	zo	59	85	55	6	7	7	-	4·6	9+	1500		2
	Catterick ...	04·5	+2	NW	2	c	57	55		6	8	4	6	Tr	9	2500	0	*
	Tynemouth ...	04·4	0	SW	3	zo	56	85	50	5	2	3	-	4·6	4·6	2400	1	2
11	St. Abbs Head	02·5	-4	SE	2	bc	55	85	51	8	5	4	-	4·6	4·6	3500	0	1
	Leuchars ...	01·1	-4	SW	3	b	59	85	55	7	2	-	4	Tr	1	2000	0	*
12	Renfrew (Abbots I.)	01·3	-4	S	2	pr	58	75	49	6	9	-	-	4·6	9+	1000	1	*
	Eskdalemuir ...	01·9	-2	SSW	5	bc	57	85	52	8	9	-	-	4·6	4·6	1100	1	*
	Point of Ayre ...	02·3	+2	SW'N	5	b	58	85	52		2	4	-	·	1	1800	0	3
13A	Tiree ...	96·9	0	SSE	4	c	54	97	52	8	5	3	-	7·8	9	2500	0	4
13B	Stornoway ...	98·7	-4	SSE	2	c/pr	54	92	52	8	5	7	-	7·8	9+	2000	1	1
15	Dalwhinnie ...	99·8	-14	S	3	bc	55	75	46	8	8	-	-	4·6	4·6	2500	1	*
	Aberdeen † ...	01·4	-8	SSW	2	bc	57	85	52	7	7	9	-	1	4·6	2300	1	
	Wick ...	01·4	-4	SE	1	bc	54	92	51	8	-	-	2	0	4·6	-	1	*
16	Sumburgh ..	03·2	-4	E'N	3	df	52	97	52	1	-	-	-	10	10	<150	0	
17	Blacksod Point	98·8	+22	W	4	c	56	85	52	8	8	5	-	4·6	7·8	2500	1	3
18	Malin Head ...	95·9	-2	S'W	5	pr	55	92	53	8	6	2	-	4·6	9	800	1	3
	Aldergrove ...	99·7	+6	S'W	4	c	55	85	49	8	8	4	-	9	9+	1200	1	*
19	Birr Castle ...	01·3	+6	SW	3	bc	55	85	51	8	3	-	-	2·3	2·3	1500	1	*
20	Valentia Obsy.	02·6	+6	SSW	3	c/pr	55	92	53	9	3	3	2	4·6	9+	2500	1	3
	Roches Point	03·8	+10	WSW	3	bc	55	92	53	8	3	-	5	2·3	4·6	2500	1	4

PAST 24 HOURS.

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 5th Hrs. (38)
London (Kew)	72	57	49	-	-	6·0
Croydon ...	76	56	53	-	-	10·9
S. Farnborough	72	55	47	-	-	5·4
Boscombe Down	68	52	49	0·4	-	4·5
Thorney Island	70	57	52	-	-	*
Lympne ...	77	57		-	0·1	11·4
Manston ...	80	58	56	-	0·2	10·2
Shoeburyness ...	81			-		
Felixstowe ...	74	58	56	-	0·6	12·3
Gorleston ...	68	57	55	Tr	2	12·0
Mildenhall ...	78	54	49	Tr	-	8·4
Cranwell ...		51	44	-	-	8·0
Birmingham ...	70	52	47	-	0·1	8·5
Upper Heyford	70	52	49	Tr	-	*
Ross-on-Wye	70	52	47	-	-	10·5
Hartland Point	61	51	53	0·3	0·3	12·2
Bristol ...	68	52	43	-	-	10·8
Portland Bill ...	60	55	*	-	0·2	*
Plymouth ...	64	56	52	-	-	10·3
The Lizard ...	64	54	*	-	0·5	13·0
Scilly (St. Mary's)	64	55	*	0·4	Tr	12·7
Pembroke ...	60	51		-	Tr	11·2
Holyhead (Valley)	66	55	51	0·1	-	*
Chester (Sealand)	71	51		0·3	-	
Manchester ...	72	54	47	-	-	*
Spurn Head ...	71	58	*	1	-	7·7
Catterick ...	72	49	44	-	-	10·7
Tynemouth ...	71	54	52	-	-	*
St. Abbs Head	69	50	*	1	-	*
Leuchars ...	68	52	43	Tr	-	8·8
Renfrew (Abbots I.)	66	52	44	4	Tr	6·0
Eskdalemuir ...	65	51	49	0·5	-	5·3
Point of Ayre ...	67	53	*	Tr	-	6·0
Tiree ...	61	52	*	-	1	8·5
Stornoway ...	59	52	*	Tr	5	4·7
Dalwhinnie ...	60	50	44	13	1	2·7
Aberdeen † ...	64	50	39	-	-	13·3
Wick ...	61	52	42	Tr	4	*
Sumburgh ..	59	51	51	-	-	0·1
Blacksod Point	62	52	*	5	9	*
Malin Head ...	65	52		15	1	7·2
Aldergrove ...	65	51	46	3	-	8·1
Birr Castle ...	65	51	48	10	0·5	9·1
Valentia Obsy.	62	51	48	1	4	4·1
Roches Point	63	54	*	5	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 5th July — 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	80	00873	48423	37	02864	46326
115						
203						
206	8-	02967	15487	86	02965	17426
210	26	02965	16425	86	02954	15395
220				53	01844	14315
230	86	02954	14385	87	02954	16326
245	26	01763	14413	36	81755	16387
260	8-	02856	14416	8-	01853	14414
278	87	02846	49687	57	02853	47417
279	8-	02857	51427	30	01854	20484
285						
288	20	01863	49414	86	02954	19326
575	8-	81847	16487	30	81745	49385
301	9-	81847	16527	8-	01844	22485
321	8-	02755	18426	20	02864	20425
299	57	05654	14315	24	01754	14314
292	2-	01754	17314	20	02863	18326
310						
614	20	08754	18324	20	01763	15315

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
109	50	05671	47311	00	00890	15204
115						
203						
206	50	00862	12412	24	01863	12404
210	40	00851	47481	10	01951	14204
220						
230	83	25845	00085	57	02956	14287
245				20	01861	19302
260	40	00862	16302	20	01863	14313
278	50	00831	16411	57	02846	14317
279	50	01754	16414	24	01854	51403
285				27	05634	24315
288	54	05671	16214	07	02790	18228
575	85	81854	53484	5-	02847	20327
301	03	01890	17415	23	01753	17313
321	04	01790	18214	04	05690	19325
299	54	01753	14114	54	05674	22215
292	40	01763	00014	5-	05651	20116
310						
614				57	05582	20224

13h. G.M.T. 5th July — 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	87	02954	18425	24	00961	18512
334						
340	2-	02955	16426	30	81965	20486
136	7-	02856	20326	84	01863	21325
336						
350	27	02853	18427	26	02951	52427
368	8-	81947	16327	80	02954	16386
379	84	02946	18427	24	02953	18527
390	1-	02765	19325	20	01861	22314
382	87	81957	18427	13	02962	18325
438	87	02744	24215	47	01854	24414
430	10	02863	18326	23	02861	18325
409	8-	02865	18525	20	01854	19414

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
333	40	01851	18401	34	01853	18313
334				--	63646	24287
340	40	01763	18184	50	01862	19313
136	57	02873	05858	57	02744	22268
336				23	25754	20386
350	47	02762	16227	5-	02725	20326
368	24	01853	20423			
379	00	02790	18315			
390	54	02764	20125	53	02762	25227
382	04	02990	00026	27	01763	21223
438				87	02724	22415
430	07	02790	20228	83	02857	20327
409	5-	00741	18201	36	01854	18315

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	Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. Time <0·1 Whole period. Min. Time
Kew ...	c	cbcy	c	
Croydon ...	cbc	cyvbcv	cbc	
Greenwich ...	cyv	bcyv	bcc	
Camden Square	c	c	*	
Kensington ...	bc	bc	*	
Hampstead ...	bc	bc	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 ...	72	57	49	-	-	60	*	*
Croydon	76	56	53	-	-	10·9	*	*
Greenwich ...	79	57	46	-	-	10·9	47	64
Westminster ...	75	57	55	-	-		63	71
Regents Park ..	76	57	55	-	-		51	61
Camden Square	77	57	55	-	-	*	*	67
Kensington ...	76	57	53	-	-		59	61
Hampstead ...	74	54	52	-	-		*	76

SECRET

Page 1 BRITISH SECTION

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

Tuesday 7th July 1942

No. 29447

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)	°F. Dew Point (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)	09.0	+4	SW	4	c	66	65	52	8	8	-	3	9+	9+	2500
	Croydon	09.0	+4	S	5	c	68	55	52	8	2	6	2	7-8	9	2300
	S. Farnborough	09.2	+6	SW'W	5	c	69	45	48	8	8	4	-	4-6	7-8	2500
	Boscombe Down	08.8	+2	SW'S	5	c	66	55	49	8	3	-	2	7-8	9	2000
	Thorney Island	10.4	+6	SW	5	c	67	65	51	9	2	-	4	4-6	7-8	2500
	Lympne	11.4	+10	WSW	4	c	66	65	54	8	2	-	3	2-3	7-8	3000
	Manston	09.7	+6	SW	4	bc	69	55	54	8	3	-	4	4-6	4-6	3500
2	Shoeburyness	00.2	-2	SSW	4	c	74	45	53	8	8	-	4	4-6	7-8	3000
	Felixstowe	08.2	+2	SSW	5	c	71	55	56	7	8	-	-	7-8	7-8	2500
	Gorleston	07.6	+6	WSW	3	bc	71	45	47	7	2	-	-	4-6	4-6	1800
	Mildenhall	07.4	+2	SW'W	3	s/pr	69	45	48	8	2	-	3	7-8	7-8	2500
	Cranwell	06.7	+6	W	5	pr	64	55	58	8	3	-	-	9+	9+	2000
3	Birmingham	07.0	+6	SW	3	bc/pr	62	65	50	7	3	-	3	4-6	4-6	2500
	Upper Heyford	07.1	+2	S	5	c	68	45	45	8	2	4	.	4-6	7-8	2800
4	Ross-on-Wye	06.9	0	SW	4	bc	67	55	49	8	2	.	9	4-6	4-6	4000
5	Hartland Point	07.4	+2	WSW	4	bcjp	59	85	52	8	3	-	3	2-3	4-6	2000
	Bristol	09.1	+6	W	4	PR	58	85	54	7	9	6	-	9+	9+	1500
	Portland Bill	10.1	+6	SSW	4	c	58	92	56	8	5	4	1	4-6	9	4000
	Plymouth	09.1	+10	SW	3	c	63	85	57	8	8	-	6	4-6	7-8	1800
	The Lizard	08.8	0	SSW	3	bc	63	85	58	8	2	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	08.0	+2	SW	4	c	64	75	55	8	8	-	6	4-6	7-8	1200
	Guernsey															
6	Pembroke	06.9	0	SW'S	4	pr	59	85	56	8	8	-	-	7-8	7-8	7000
7	Holyhead (Valley)	04.3	+2	SSW	5	bc	63	65	52	8	3	6	3	2-3	2-3	3000
	Chester (Sealand)	05.0	0	SW'W	4	c	69	45	47	8	2	6	2	4-6	7-8	2500
8	Manchester	05.4	+6	S'E	3	+/tlr	58	75	51	8	3	6	3	4-6	7-8	2500
10	Spurn Head	05.3	0	WSW	4	bc/pr	67	55	48	7	7	6	-	4-6	4-6	1500
	Catterick	04.9	+8	SW	2	s/pr	61	65	50	8	3	6	3	7-8	7-8	3500
	Tynemouth	03.7	-2	WSW	4	bc	68	45	47	7	2	3	1	4-6	4-6	3000
11	St. Abbs Head	01.2	-2	SW	4	c	65	55	48	8	2	4	.	7-8	7-8	3500
	Leuchars	00.2	-2	SW	4	c	64	85	58	8	8	6	3	4-6	7-8	3000
12	Renfrew (Abbots I.)	01.1	-2	SW'S	4	c	65	55	50	8	8	7	.	7-8	7-8	2200
	Eskdalemuir	01.7	+2	SSW	3	c	58	75	51	8	8	-	-	2-3	7-8	1600
	Point of Ayre	02.6	0	W'S	4	bc	70	55	53	8	2	6	3	4-6	4-6	3000
13A	Tiree	97.1	+6	SW'W	5	ir	55	92	53	7	-	2	-	9+	9+	1500
13B	Stornoway	96.3	-14	SSE	5	s/pr	57	85	51	8	5	7	.	4-6	8	2500
15	Dalwhinnie	00.3	+4	S	3	pr	53	92	51	7	5	-	-	9+	9+	1500
	Aberdeen	02.2	-6	SSW	5	bc	66	65	52	7	8	-	8	2-3	4-6	2800
	Wick	99.9	+10	SSE	3	bc	59	85	52	8	8	6	2	4-6	4-6	4000
16	Sumburgh	01.5	-10	NE'E	2	f	53	97	53	2	-	-	-	10	10	<150
17	Blacksod Point	00.4	+2	SW	4	c	60	75	52	8	8	3	6	4-6	7-8	1500
18	Malin Head	98.8	+10	WSW	4	bc	60	75	52	8	2	.	9	2-3	4-6	2500
	Aldergrove	01.7	+10	W	3	PR	61	75	51	8	8	7	3	7-8	9	1500
19	Birr Castle	02.7	+2	WSW	2	pr	67	85	53	8	8	2	.	7-8	9	1500
20	Valentia Obey.	03.7	+2	SW'S	4	s/pr	59	75	52	9	8	6	-	7-8	7-8	2500
	Roches Point	04.5	0	SW	3	bc	61	85	56	8	3	4	-	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 6th 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)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point (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. 6th (39)	Weather 13h.–18h. 6th (40)	Weather 18h. 6th to 1h. 7th (41)	Weather 1h.–7h. 7th (42)
London (Kew)	10.1	+8	SW'S	4	c	65	55	49	8	8	-	3	4-6	9+	4000	1	*	cprPR	cey	cyc	c
Croydon	10.5	+10	SSW	3	c	64	65	52	8	2	6	6	4-..	9	2500	0	*	cpcc	zybcc	cbc	bccpr0
S. Farnborough	10.4	+10	SWS	4	c	63	55	47	9	1	7	2	Tr	9	3000	0	*	cpgbc	bcey	cycbc	bccid0bc
Boscombe Down	10.2	+10	SW'S	4	c	61	75	52	8	6	-	3	2-3	9	3000	0	*	cpc	cyc	cycb	bcc
Thorney Island	11.4	+6	SW	3	c	62	65	51	9	2	7	3	Tr	9+	450	0	*	cbcc	c	cbc	bcpr0c
Lympne	13.1	+10	SSW	1	c	61	75	55	8	1	6	3	Tr	9+	3500	0	§3	beybc	bcc	cbc	bcc
Manston	11.2	+4	SSW	3	c	65	75	56	8	2	7	1	9	9	3500	0	*	ccrbcpc	bcrczbc	c	cm0cwc
Shoeburyness	10.8	+8	SSW	4	c	68	55	51	8	8	5	6	2-3	7-8	3000	0	*	cbcy	cy	c	cyc
Felixstowe	10.0	+10	SSW	5	c	68	65	54	7	7	3	3	1	7-8	2000	1	4	cbcy	bcyPRph	cbc	bcc
Gorleston	09.8	+6	WSW	4	c	68	55	50	7	2	4	2	2-3	7-8	2500	1	3	bcy	bcy	bccpr0	bcc
Mildenhall	08.5	+6	SSW	4	c	69	45	48	9	8	7	2	4-6	9	2500	0	*	bcycpr0	cbccy	cycbc	bcwv
Cranwell	06.8	+2	SW'S	4	c	67	55	49	8	2	7	-	2-3	7-8	3000	0	*	bc	cpzbc	bc	bcc
Birmingham	07.4	+4	S	3	c	63	65	51	8	8	7	1	4-6	7-8	2500	1	*	cbctlr	bcpr	bbc	bc
Upper Heyford	08.4	+4	SW	4	c	64	65	51	9	9	6	3	4-6	9	2500	0	*	cbcy	bcycpr	cbcc	bccm0c
Ross-on-Wye	08.0	+6	SW'S	3	c	63	65	52	9	8	6	6	4-6	7-8	3500	0	*	cbc	bcpcr	cbccp	cbc
Hartland Point	07.6	-2	WSW	4	bc	61	75	54	8	2	4	2	2-3	4-6	2000	0	4	cbc	bc	cpbc	bccbc
Bristol	09.8	+8	SW	3	s/pr	58	92	55	7	9	6	-	9+	9+	1500	1	*	bcPR	cprPRt	cpr0prb	bcc
Portland Bill	10.6	+2	S	4	o	59	97	58	8	5	-	-	10	10	4000	1	4	c	oc	cbc	c
Plymouth	09.9	+4	SW	3	c	61	85	56	8	2	6	3	4-6	7-8	2000	0	2	bc	bcc	cbc	bccbc
The Lizard	09.8	+4	SSW	3	pr	59	92	57	8	8	6	-	4-6	4-6	2000	1	3	bc	bpc	cbcpr	cprbc
Scilly (St. Mary's)	08.6	+2	SW'S	4	cjp	62	75	55	8	8	6	2	7-8	9+	1200	1	4	bcpbcc	bcpn	cp0bc	bcc
Guernsey																					
Pembroke	07.3	+2	SW'S	4	bc	59	85	53	8	8	6	3	4-6	4-6	3000	1	3	cpr	bc	cbc	bccpr
Holyhead (Valley)	00.2	+6	SSW	5	b	60	75	53	8	2	4	-	Tr	1	3000	0	3	bcwc	bcb	c	pr0cbc
Chester (Sealand)	06.0	+6	SSW	2	s/pr	66	65	53	8	9	6	3	7-8	7-8	2000	.	*	bcjpcy	bcytpr	bcpr0	cpr0m0c
Manchester	06.3	+4	S'W	3	bc	64	65	52	9	3	6	3	4-6	4-6	2500	1	*	+lR	tlrpr	bc	bc
Spurn Head	06.8	0	SW'W	3	bc	69	45	48	7	7	4	1	2-3	4-6	2500	0	3	cpr	cbc	cbc	c
Catterick	05.5	+6	SW	2	bc	64	55	48	7	1	-	1	4-6	4-6	4000	0	*	bccprs	cprbcy	bcypr0b	bbm0cm0
Tynemouth	04.5	+4	WSW	5	bc	66	45	46	8	2	3	-	2-3	4-6	3000	1	3	bc	bc	bc	bcc
St. Abbs Head	02.1	+6	WSW	5	c	63	55	48	9	4	4	.	4-6	7-8	3500	0	4	bcc	c	bcc	cbc
Leuchars	01.2	+10	SSW	4	bc/pr	61	92	59	8	3	6	3	4-6	4-6	3000	0	*	bbcyc	cpcs	c	cir0pr0
Renfrew (Abbots I.)	02.2	+2	SW	2	s/pr	60	75	50	8	3	3	.	7-8	7-8	3000	.	*	cbcy	bcycpr	cm0ir0	cir0pr
Eskdalemuir	03.4	+8	SSW	4	c	57	75	48	8	5	7	1	4-6	7-8	1800	1	*	bcprc	cpr0bc	cpRpr	cpr0c
Point of Ayre	03.8	+4	WSW	5	c	65	65	53	8	2	9	-	Tr	9	2000	0	3	bc	bcc	cbc	bcc
Tiree	99.3	+6	SW'W	3	bc	58	85	53	8	1	3	6	1	2-3	3500	0	4	cir	bc	circb	cpr
Stornoway	95.2	+2	SSW	5	iR	55	92	53	8	5	9	1	4-6	9	1800	1	3	cprpc	crriR	cIRpr0	cpr0
Dalwhinnie	01.1	+6	SW	2	c	56	65	46	8	8	4	-	4-6	7-8	2500	0	*	bcprc	c		cpr0
Aberdeen	00.5	+8	WSW	4	c	63	55	46	8	8	-	3	2-3	7-8	2800	0	2	bc	bcpcy	bc	bcc
Wick	98.4	-6	SSW	4	bc	63	85	57	9	8	3	3	4-6	4-6	4000	0	*	bbc	bc	bc	ccir0
Sumburgh	99.1	-10	E'S	2	F	53	97	53	1	-	-	-	10	10	<150	0	2	fdd0f	ofdf	ocbcfc,b	bbcc
Blacksod Point	00.5	0	SW	4	c	59	75	51	8	8	3	6	4-6	9	1500	1	3	c	c	pr	bc
Malin Head	00.2	+8	WSW	3	ir0	57	85	49	8	5	2	-	7-8	10	2500	1	3	pr	r	r	c
Aldergrove	02.0	+2	SSW	2	c	59	75	51	8	8	6	-	9	9+	2000	1	*	cprPR	cPR/pc	cd0d0pr0	c
Birr Castle	02.2	-2	WSW	2	c	60	85	52	8	8	7	-	7-8	9+	1500	1	*	pr	pr	*	c
Valentia Obey.	04.4	+6	SW'W	4	c	58	75	51	8	8	-	1	7-8	7-8	2500	1	4	pr	pr	pr	pr
Roches Point	04.5	0	SW'W	4	bc	62	75	54	8	2	4	+	2-3	4-6	2500	1	4	bc	bc	bc	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 7th July 1942

Districts	Forecast
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 Southwesterly winds; local showers with chance of thunder, more particularly in eastern England bright intervals, more especially at night; average temperature.
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

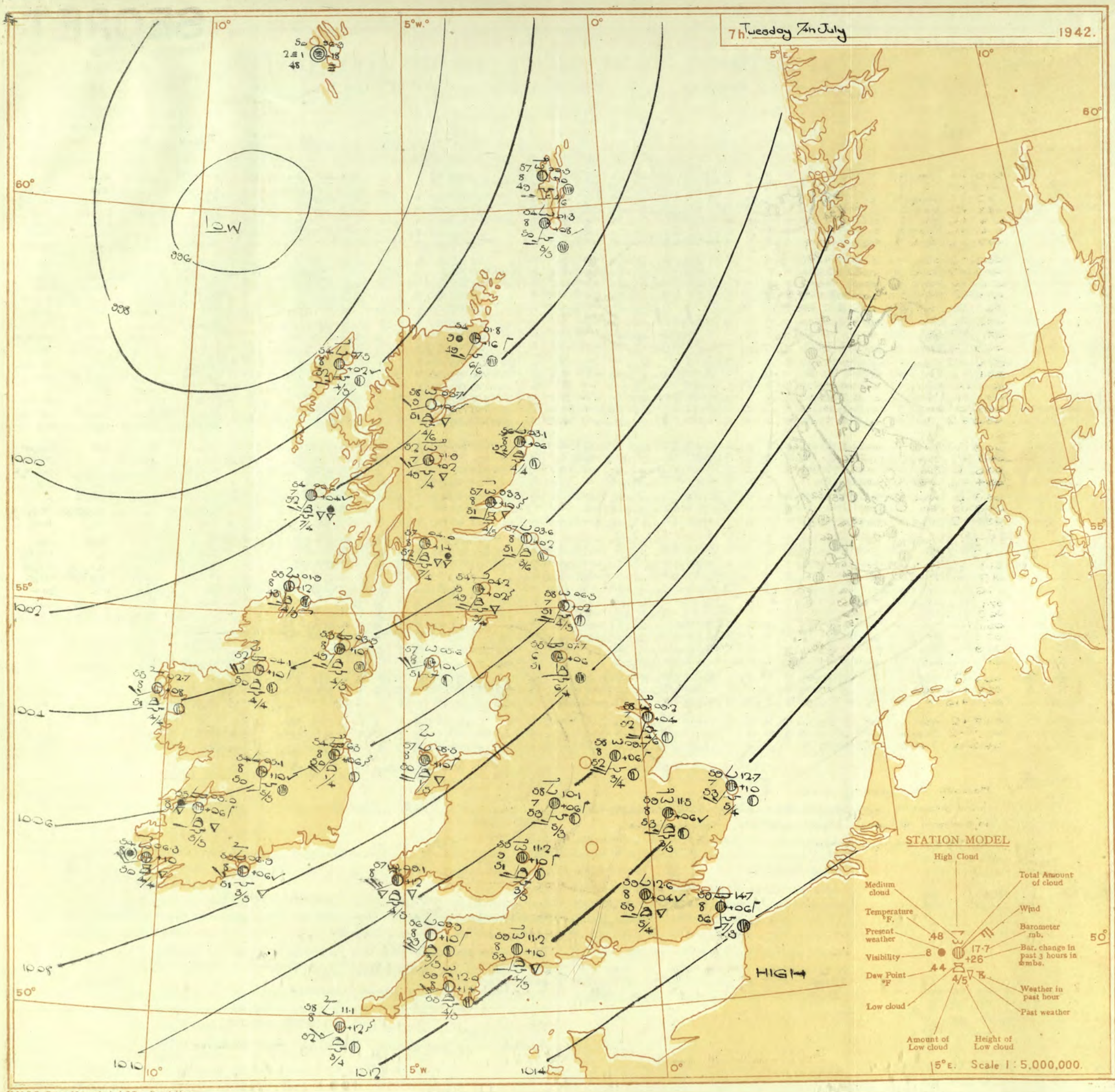
A depression centred to Northwest of Scotland is moving slowly northwards and tending to fill up.
There will be local showers, with a chance of thunder in the East, but considerable bright intervals.
Temperature will be about normal.

FURTHER OUTLOOK

Similior but decreasing tendency for showers.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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).

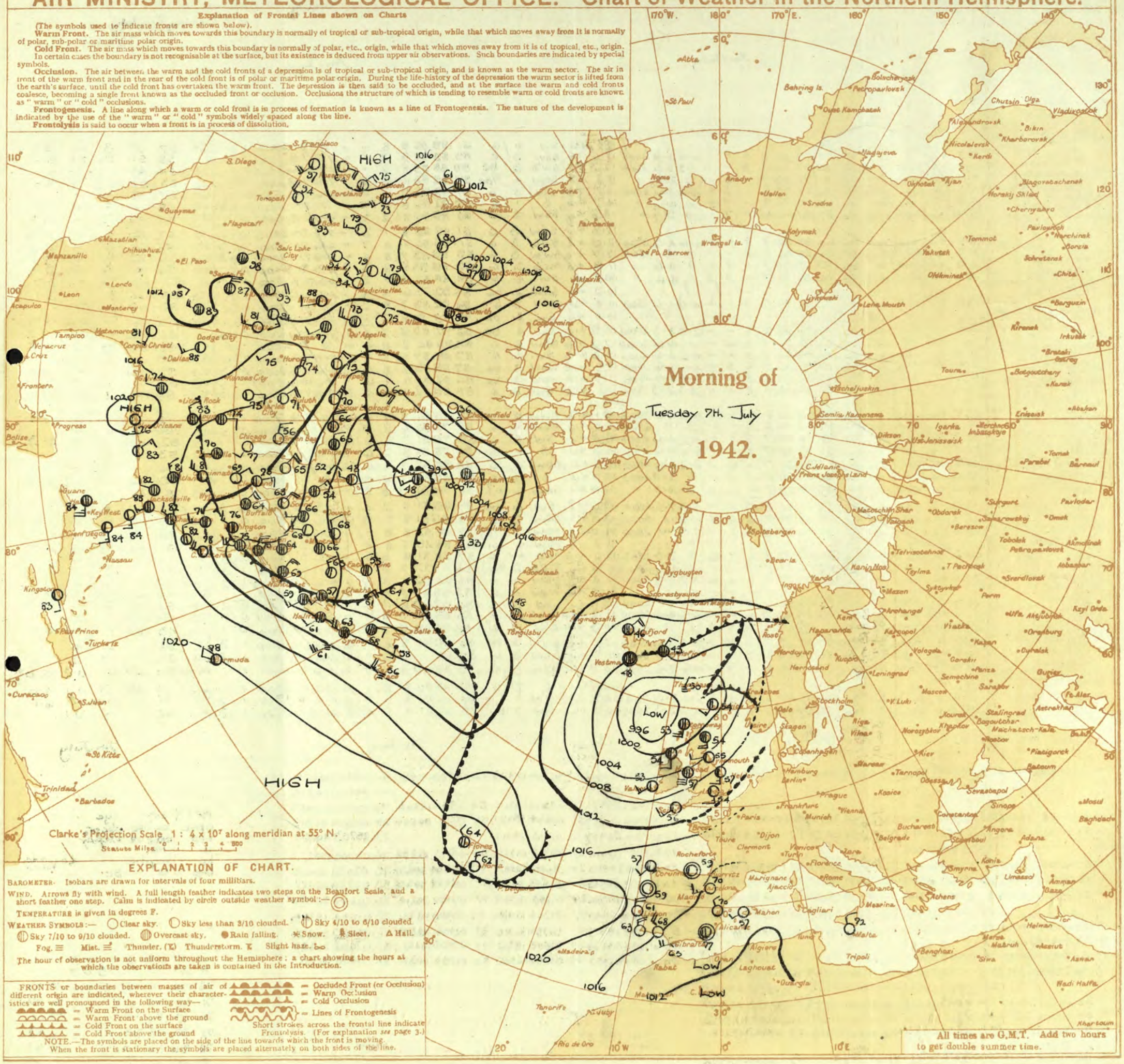
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Tuesday 7th July 1942
No. 29,477

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)	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	*	*	*	*	*	58	*	*	*	*	*	*	*	*	*
	Croydon	290	12.2	+2	S	3	bc	55	97	54	8	5	-	-	4-6	4-6	2000
	S. Farnborough	226	11.7	-2	SSW	3	bc	55	92	53	8	5	-	-	2-3	2-3	2000
	Boscombe Down	417	11.0	-4	S'W	3	bc	54	92	53	7	-	6	-	0	2-3	-
	Thorney Island	10	11.9	0	SW	4	bc	60	97	58	8	1	3	-	4-6	4-6	2000
	Lympne	283	14.0	+2	-	0	bc	56	97	54	8	-	7	-	0	4-6	-
	Manston	154	12.4	-6	SSW	1	z₀	57	97	56	6	-	7	-	0	9	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	11.8	+2	SW	4	bc	60	85	54	7	5	-	-	4-6	4-6	5700
	Gorleston	5	11.2	0	SW'S	3	pr	60	85	54	7	6	-	-	9	9	1500
	Mildenhall	15	10.9	+2	SSW	3	bc	59	75	50	7	-	7	1	0	4-6	-
	Cranwell	203	09.1	+2	SSW	4	bc	56	85	50	7	-	7	2	0	4-6	-
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10.2	+2	SW'S	2	bc	53	92	51	7	5	-	-	4-6	4-6	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	08.4	-4	SW	4	bc	57	92	54	8	3	-	-	2-3	2-3	2500
	Bristol	209	10.7	+2	S'E	4	bc	56	92	54	7	5	4	-	1	4-6	2500
	Portland Bill	32	11.4	+4	SW	4	bc	56	92	54	8	5	-	-	4-6	4-6	4000
	Plymouth	82	10.5	0	SW	3	bc	58	97	56	7	8	3	-	4-6	4-6	1000
	The Lizard	240	10.4	0	SW	3	c/pr	57	92	55	8	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	09.9	+2	SW'W	3	bc	56	92	53	8	8	-	-	2-3	2-3	1500
	Guernsey	175															
6	Pembroke	142	07.9	+8	WSW	5	bc	56	85	52	8	8	-	-	4-6	4-6	2500
7	Holyhead (Valley)	32	05.4	0	SSW	6	pr	57	92	54	8	2	-	-	9	9	6300
	Chester (Sealand)	16	07.7	-6	SE'S	3	bc	54	85	50	7	5	-	-	4-6	4-6	4000
8	Manchester	235	07.7	+2	S	3	bc	54	85	49	7	5	-	-	4-6	4-6	3500
10	Spurn Head	29	08.5	0	S'W	3	bc	57	85	51	7	4	6	-	2-3	4-6	2500
	Catterick	175	07.4	-2	-	0	bc	50	97	49	8	5	4	-	Tr	2-3	4000
	Tynemouth	108	06.6	+4	WSW	2	bc	55	85	49	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	03.5	-2	SW	4	c	54	85	50	7	5	4	-	7-8	7-8	4000
	Leuchars	36	02.8	0	SSW	1	c	55	85	51	7	4	6	7	4-6	10	3000
12	Renfrew (Abbots I.)	19	02.6	-2	S	2	ir₀	56	85	52	6	5	2	-	7-8	10	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	04.2	0	SW'W	4	bc	55	92	53	8	4	7	6	Tr	2-3	1500
13A	Tiree	22	00.2	0	S	1	bc	52	92	51	8	5	3	-	2-3	4-6	2800
13B	Stornoway	80	97.5	+6	SSW	5	c	53	92	51	8	2	4	6	2-3	7-8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	02.5	0	S'E	3	c	54	85	50	8	5	7	-	1	9+	4000
	Wick	114	01.7	+16	SW	3	bc	55	85	50	9	4	-	-	4-6	4-6	3500
16	Sumburgh	19	99.8	0	SW	1	b	51	92	49	8	5	4	-	1	1	2000
17	Blacksod Point	18	01.7	0	SW'W	3	bc/pr	53	85	49	8	9	-	-	4-6	4-6	1500
18	Malin Head	84	00.7	+2	S	2	c	54	92	52	8	2	-	-	7-8	7-8	1500
	Aldergrove	268	03.0	+6	SSW	4	c	54	85	50	8	8	7	-	4-6	7-8	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	05.6	0	SW'W	3	bc/pr	53	85	49	8	2	-	3	2-3	2-3	1500
	Roches Point	22	06.3	0	WSW	3	bc	54	97	53	8	5	-	-	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 7th 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)	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 G.H. Hrs. (38)
London (Kew)	12.7	+6	SW	3	c	61	85	55	8	8	-	-	9	9	2500	1	*	68	57	53	3	-	9.3
Croydon	12.6	+4	SSW	3	c	59	85	55	8	2	4	-	7-8	7-8	1300	0	*	71	55	53	Tr	0.5	8.9
S. Farnborough	12.3	+10	SW'S	3	bc	58	85	53	8	2	-	1	4-6	4-6	2000	0	*	71	54	49	0.1	Tr	8.4
Boscombe Down	12.2	+8	SSW	4	c/pr	57	85	53	8	8	3	-	7-8	7-8	800	0	*	68	53	50	0.3	Tr	8.8
Thorney Island	12.5	+6	SW	3	c	61	85	56	9	2	4	6	4-6	7-8	1500	0	*	68	57	55	-	1	*
Lympne	14.7	+6	S	1	c	59	92	56	8	5	7	-	9+	9+	800	0	§3	68	55	*	-	-	9.9
Manston	13.2	+6	SSW	2	c	60	85	56	8	2	9	-	4-6	7-8	1500	0	*	72	55	52	Tr	-	8.7
Shoeburyness	12.8	+6	SSW	3	c	61	85	55	8	1	3	-	7-8	9+	2500	0	*	75	57	50	-	-	11.4
Felixstowe	12.6	+2	SW'S	3	c	61	85	56	8	8	7	-	4-6	9+	2500	0	3	73	58	54	3	-	9.6
Gorleston	12.7	+10	SW'W	3	c	59	85	53	7	5	4	-	7-8	9	2000	1	3	72	56	52	4	Tr	8.2
Mildenhall	11.5	+6	SW'S	3	c	59	85	53	8	8	3	2	2-3	9	2000	0	*	73	54	*	Tr	Tr	9.5
Cranwell	09.7	+6	SW	4	c	58	85	52	8	5	3	-	4-6	7-8	700	0	*		52	47	Tr	-	9.7
Birmingham	10.0	+6	SSW	2	bc	55	92	53	6	8	-	-	4-6	4-6	1500	1	*	69	53	48	3	-	8.1
Upper Heyford	10.8	+6	S'W	3	c	56	92	53	7	5	3	-	9	9+	1000	0	*	70	53	49	0.1	Tr	*
Ross-on-Wye	10.0	+6	SW	4	bc	58	75	50	8	2	-	1	2-3	2-3	3500	1	*	68	54	50	Tr	0.6	8.5
Hartland Point	09.9	+10	SW	4	bc	56	92	53	8	2	4	1	2-3	4-6	2000	0	4	61	55	54	-	0.1	12.3
Bristol	12.2	+16	SSW	4	c	58	85	54	8	8	4	-	9	9	4000	1	*	68	54	50	13	2	7.5
Portland Bill	12.3	+14	SW	4	c	59	85	57	8	2	-	-	7-8	7-8	4000	1	4	59	59	*	-	-	*
Plymouth	12.0	+14	WSW	3	bc	59	85	55	8	8	6	2	4-6	4-6	2000	0	3	64	57	54	-	-	9.8
The Lizard	11.7	+10	WSW	3	bc	56	92	54	8	8	6	-	4-6	4-6	1500	1	4	64	54	*	0.3	2	13.6
Scilly (St. Mary's)	11.1	+12	SW	3	c	58	85	52	8	8	4	5	2-3	7-8	1200	1	3	64	54	*	1	0.1	13.5
Guernsey																							
Pembroke	09.1	+12	SW'W	5	pr	57	85	51	8	8	6	-	4-6	7-8	2500	1	3	59	50	*	Tr	3	10.4
Holyhead (Valley)	08.5	+10	SSW	4	c	57	75	50	8	2	9	9	Tr	9	2500	0	3	64	55	51	-	Tr	*
Chester (Sealand)	08.0	+6	SW	4	c	59	75	51	7	8	6	2	7-8	9+	2000	0	*	71	52	48	0.3	Tr	10.3
Manchester	08.3	+6	S	4	bc	58	75	51	8	2	6	3	4-6	7-8	2500	0	*	65	53	47	4	-	*
Spurn Head	09.2	+4	SSW	4	c	58	85	52	7	4	6	2	4-6	7-8	4000	0	3	70	54	*	0.3	-	9.4
Catterick	07.7	+6	S	2	z₀	55	85	51	6	8	7	1	9	9+	1800	1	*	79	49	42	0.2	0.2	10.6
Tynemouth	06.5	+2	SSW	4	bc	58	75	51	7	5	3	-	4-6	7-8	2800	0	3	69	53	51	-	-	*
St. Abbs Head	03.6	+2	SW	3	bc	57	85	51	8	2	4	-	2-3	4-6	3500	0	3	67	51	*	-	-	*
Leuchars	03.3	+10	SSW	2	c	57	85	51	8	9	3	3	4-6	9	800	0	*	67	55	49	Tr	Tr	9.8
Renfrew (Abbots I.)	04.0	+14	SSW	3	c/pr	57	85	52	8	8	-	-	9+	9+	1600	1	*	65	54	52	0.1	1	6.3
Eskdalemuir	04.2	+2	SSW	4	c	54	85	49	5	8	-	1	7-8	9	1400	1	*	61	51	51	0.1	5	6.2
Point of Ayre	05.6	+10	W'S	4	c	57	85	51	8	5	3	-	4-6	9	3000	0	3	70	51	*	-	-	10.4
Tiree	00.6	+4	SW'S	3	c/pr	54	92	52	7	8	-	-	9+	9+	1500	1	3	58	51	*	3	2	5.1
Stornoway	97.5	+2	SSW	4	c	54	92	52	8	5	7	1	4-6	7-8	3000	1	2	59	52	*	2	2	5.2
Dalwhinnie	01.5	+2	WSW	3	c	52	85	49	7	5	3	2	9	9	1500	1	*	60	49	46	0.8	Tr	9.7
Aberdeen †	03.1	+6	SW	3	c	56	92	53	8	8	4	-	9	9+	2300	0	2	66	54	48	Tr	-	12.3
Wick	01.8	+16	S'W	3	ir₀	54	85	49	9	5	-	-	9	9	3000	0	*	65	51	45	-	0.1	*
Sumburgh	01.3	+8	S'W	3	c₀	54	85	50	8	5	7	8	7-8	9+	3000	0	1	54	49	38	Tr	-	0.0
Blacksod Point	02.7	+8	SW'W	3	bc	55	85	51	8	8	-	5	4-6	4-6	1500	1	3	62	51	*	2	4	*
Malin Head	01.9	+12	SSW	3	c	55	65		8	2	-	9	4-6	7-8	800	1	2	61	51		3	2	7.4
Aldergrove	03.9	+10	SSW	3	c	53	85	49	8	8	7	3	4-6	9	1000	1	*	64	50	49	3	0.2	6.0
Birr Castle	05.1	+10	S	2	c	54	85	50	8	5	1	-	7-8	9	2500	1	*	62	49	45	3	0.4	4.0
Valentia Obsy.	06.3	+10	SW'W	2	cjp	54	85	50	8	3	3	3	4-6	9	1500	1	3	63	51	48	0.4	3	6.1
Roches Point	06.9	+6	WSW	3	bc	55	85	51	8	5	4	5	2-3	4-6	2500	1	3	63	52	*	-	0.1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

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

III	$C_L C_M$ (13h)	$wwVhN_h$ (13h)	DDFWN (13h)	$C_L C_M$ (18h)	$wwVhN_h$ (18h)	DDFWN (18h)	$C_L C_M$ (01h)	$wwVhN_h$ (01h)	DDFWN (01h)	$C_L C_M$ (07h)	$wwVhN_h$ (07h)	DDFWN (07h)
109	20	05661	14304	84	05764	14315	5-	02764	18314	57	61865	15265
115												
203												
206	8-	01865	18413	83	02964	20515	57	02864	22428	83	01964	22285
210	8-	02967	15327	86	01963	19414	57	01955	12227	87	02964	14226
220				83	25845	17586						
230	87	02845	18387	87	01953	20314	8-	25858	16268	52	81956	18187
245	86	25865	20486	36	91963	21394	50	02961	16327	84	25764	18386
260	2-	25865	23485	8-	82854	20384	5-	22854	19464	26	01852	19214
278				86	22857	20386	52	18368	03055	83	53867	18267
279	33	02955	54516	86	02964	53515	8-	01854	51515	87	02745	21426
285	23	25854	20585									
288	3-	81855	53485	36	00953	53483	40	00762	.....	51	02754	16316
575	36	25855	23485	21	25856	24188	80	01854	24224	87	02844	22216
301				20	00963	22503	5-	02866	16306	86	25755	20487
321	33	01764	20415	84	02963	20324	04	05690	22282	54	01773	22325
299	84	01764	22314	50	00762	22202	80	01753	20113	54	02654	20115
292	8-	81855	57416	36	28653	20284	40	05561	16213	53	05663	17216
310	--	28635	20495									
614	36	02764	20495	36	25664	18315	50	05660	51311	17	05654	20325

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

III	$C_L C_M$ (13h)	$wwVhN_h$ (13h)	DDFWN (13h)	$C_L C_M$ (18h)	$wwVhN_h$ (18h)	DDFWN (18h)	$C_L C_M$ (01h)	$wwVhN_h$ (01h)	DDFWN (01h)	$C_L C_M$ (07h)	$wwVhN_h$ (07h)	DDFWN (07h)
333	27	02952	20403	34	01962	19403	23	02853	19427	5-	02865	18326
334	--	02743	28314							--	25645	26216
340	3-	02955	22426	26	02954	23314	50	01763	14203	70	02862	20416
136	3-	25865	24385	23	02864	18487	53	17313	09954	58	02846	20317
336	13	01754	20415	23	01753	20414				23	25753	20384
350	27	81855	20416	87	02755	18326	50	00242	18282	86	02755	17327
368	8-	81746	24486	24	81755	22287	50	01864	20374	86	02953	20415
379	20	01955	20415	3-	81648	20388	5-	05648	20328	53	02735	20427
390	36	81655	23386	26	01763	16384	07	05690	20214	36	02646	20356
382	36	25964	20485	97	81964	18486	04	00890	18201	87	02854	18325
438	57	02754	24415	57	02754	22316	57	02754	22315	--	67009	20429
430	86	02855	53426	09	02890	18327	4-	02855	18227	8-	02856	20227
409	30	01955	22485	20	02954	22525	50	01754	20314	80	00841	18313

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 7th July
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—13h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre
Kew	cpr PR	ccy	cyc	
Croydon	cprc	cybcc	cbcpr₀	Kew 24 hours ended 7h.
Greenwich	cyp	cp₀cyv	cvcp₀cy	
Camden Square	c	bc	*	Max. Time
Kensington	bc	bcpbc	*	<0.1 whole period
Hampstead	bcp	bc	bc	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	57	53	3	-	9.3	*	*
Croydon	71	55	53	Tr	0.5	8.9	*	*
Greenwich	73	56	47	0.3	Tr	9.0	37	59
Westminster	71	58	54	Tr			51	69
Regents Park	71	57	53	1.0	-		57	61
Camden Square	72	57	53	0.5	-	*	*	63
Kensington	72	56	51	1.0	-		51	63
Hampstead	70	55	50	Tr	-		*	67

SECRET

Page 1

BRITISH SECTION

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

Wednesday 8th July 1942

No. 29148

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	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)	11.7	-6	SW'S	4	c	67	55	49	8	8	-	4	7-8	9+	2500
	Croydon ...	12.2	-8	SW'S	4	c	68	55	53	8	2	-	6	4-6	9+	2400
	S. Farnborough	12.4	+2	SSW	4	c	70	45	48	9	2	-	5	2-3	9+	3000
	Boscombe Down	12.4	+2	SW'W	5	c	66	55	48	9	2	-	2	7-8	7-8	2800
	Thorney Island	13.8	+6	SSW	5	c	66	75	56	9	2	-	4	4-6	9	2500
	Lympne ...	14.5	-4	SSE	3	c	67	65	55	8	2	-	2	7-8	9	1500
	Manston ...	13.2	-2	SSW	3	c	68	65	57	8	2	6	3	7-8	7-8	1600
2	Shoeburyness ...	13.0	-2	S'W	4	c	72	55	56	8	2	4	6	4-6	7-8	2500
	Felixstowe ...	13.2	+4	S	5	bc	68	65	57	8	8	6	2	4-6	7-8	2500
	Gorleston ...	12.7	-2	SSW	5	bc	62	85	57	7	2	-	-	4-6	4-6	1800
	Mildenhall ...	11.0	-10	SW'S	4	c	71	45	47	9	8	6	2	4-6	7-8	2300
	Cranwell ...	09.8	-4	WSW	4	c	66	55	50	8	2	7	2	2-3	4-6	3500
3	Birmingham ...	09.7	-4	SW	3	bc	65	45	45	6	8	-	2	4-6	7-8	2500
	Upper Heyford	10.4	-4	S'W	4	c	68	55	50	8	3	6	3	4-6	7-8	2000
4	Ross-on-Wye	10.4	0	W'S	5	bcq	66	45	46	8	1	-	9	2-3	4-6	4000
5	Hartland Point	10.9	0	WSW	4	bc	57	75	51	8	2	4	-	2-3	4-6	2000
	Bristol ...	11.8	+2	WSW	4	pr	63	65	52	8	9	6	-	9	9+	2500
	Portland Bill ...	13.6	+6	SW	4	c	58	85	52	8	2	4	-	4-6	10	4000
	Plymouth ...	12.9	0	WSW	4	bc	64	75	56	8	2	7	-	2-3	4-6	2000
	The Lizard ...	12.2	0	SW	4	pr	59	92	57	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	12.1	+6	SW	4	c/r	61	75	55	8	8	7	-	4-6	9+	1200
	Guernsey ...															
6	Pembroke ...	10.2	+2	SW'W	6	pr	58	85	52	8	8	6	-	7-8	10	2500
7	Holyhead (Valley)	07.6	+2	SSW	5	bc	63	65	42	9	2	9	3	1	7-8	3000
	Chester (Sealand)	08.6	+2	SW'S	3	c	65	55	50	8	8	-	6	4-6	9+	2000
8	Manchester ...	08.7	-2	S'W	4	c/p	64	55	48	9	3	6	3	7-8	9+	2500
10	Spurn Head ...	09.8	0	W	4	c	64	75	52	7	5	6	-	4-6	7-8	1500
	Catterick ...	08.3	+4	WSW	4	c	65	55	45	8	8	6	2	7-8	9	2600
	Tynemouth ...	07.1	0	SW	4	c	66	45	44	7	8	3	1	4-6	7-8	2800
11	St. Abbs Head	04.8	+2	SW	5	c	61	65	47	8	5	-	-	9	9	2500
	Leuchars ...	04.3	+4	SW	3	c/pr	59	75	51	8	9	6	8	4-6	9	1800
12	Renfrew (Abbotsl.)	04.5	+2	WSW	4	c	60	65	47	8	8	7	8	4-6	7-8	1500
	Eskdalemuir ...	05.5	+6	S'W	5	c/pr	57	75	49	8	8	7	8	7-8	9	1700
	Point of Ayre ...	06.4	+4	SW	4	c	66	55	51	8	2	-	5	7-8	7-8	2500
13A	Tiree ...	02.8	+10	SW'W	3	bc	59	75	51	8	8	3	8	4-6	4-6	3500
13B	Stornoway ...	00.7	+18	SSW	3	c/pr	57	85	52	8	5	9	-	7-8	9+	2500
15	Dalwhinnie ...	04.0	+6	SW	3	pr	55	75	46	8	5	4	-	7-8	9+	2500
	Aberdeen ...	03.5	+2	SSW	3	bc	64	65	51	8	8	-	3	7-8	7-8	2700
	Wick ...	01.6	+2	S	4	c	63	75	52	9	3	6	4	4-6	7-8	3000
16	Sumburgh ...	02.6	-2	S'W	3	bc	57	85	53	8	8	3	-	2-3	4-6	3500
17	Blacksod Point	04.7	+10	WSW	5	bc	60	65	48	8	3	-	3	2-3	4-6	2500
18	Malin Head ...	03.4	+10	W	1	RR	54	97	53	8	9	2	-	4-6	9	2500
	Aldergrove ...	04.4	-4	SW	3	c	62	65	49	8	2	-	3	4-6	9+	2500
19	Birr Castle ...	06.7	+10	SW	3	c	57	85	52	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	09.7	+14	W	4	c/pr	56	85	51	9	3	6	-	4-6	7-8	2500
	Roches Point	08.5	+2	W'S	4	c	57	85	52	8	3	4	3	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 7th 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)	12.5	+6	SW	5	c	67	55	48	8	8	3	3	2-3	7-8	2500	1	*
Croydon ...	12.8	+4	SSW	4	c	65	65	52	9	2	3	-	1	7-8	2800	0	*
S. Farnborough	12.7	0	WSW	2	c	66	45	47	9	8	4	-	4-6	7-8	2500	0	*
Boscombe Down	12.7	+6	SW'W	4	c/r	61	65	50	9	2	7	-	7-8	9+	2800	0	*
Thorney Island	13.8	0	SW	4	pr	62	75	53	9	8	7	6	2-3	9+	800	1	*
Lympne ...	15.0	+6	SSW	3	c	61	75	54	8	2	7	2	7-8	9+	3500	0	§ 3
Manston ...	13.3	+2	SW	3	c	65	65	55	8	3	7	3	2-3	9	1500	0	*
Shoeburyness ...	12.6	-2	SSW	4	c	67	55	51	8	2	5	6	2-3	9	2500	0	*
Felixstowe ...	12.1	-2	SSW	5	c	67	65	54	8	2	7	6	1	9	2500	0	3
Gorleston ...	12.4	+2	SSW	2	c	60	85	55	7	8	-	-	10	10	1000	1	3
Mildenhall ...	11.3	-2	W'S	5	PR	62	75	45	7	8	6	3	4-6	9	1000	1	*
Cranwell ...	09.4	-2	WNW	3	ct	66	55	49	7	9	6	-	7-8	9+	2000	0	*
Birmingham ...	10.7	+4	W	3	c/pr	58	75	50	6	8	-	-	10	10	1300	1	*
Upper Heyford	11.7	+8	WSW	4	PR	56	85	52	6	9	-	-	10	10	1500	1	*
Ross-on-Wye	11.3	+12	SW	3	bc	56	85	50	8	8	-	3	4-6	4-6	3500	1	*
Hartland Point	11.5	+8	WSW	4	bc	60	75	51	8	2	-	-	2-3	2-3	2500	0	4
Bristol ...	12.9	+2	S	2	r/tlr	64	92	53	7	9	6	-	9	9+	1500	1	*
Portland Bill ...	13.6	+6	SW	4	c	59	85	53	8	2	4	-	4-6	10	4000	1	4
Plymouth ...	13.0	0	W'S	4	bc	61	75	53	8	2	-	-	4-6	4-6	2000	0	3
The Lizard ...	13.4	+10	WSW	4	bc	60	75	52	8	2	-	-	2-3	2-3	2500	1	4
Scilly (St. Mary's)	13.9	+10	W	4	bc	60	65	49	8	8	4	-	2-3	4-6	1500	1	3
Guernsey ...																	
Pembroke ...	11.1	+4	W'S	4	bc	58	85	52	8	8	-	-	2-3	2-3	3000	1	3
Holyhead (Valley)	07.7	-2	SW'S	5	bc	60	75	52	8	2	6	3	2-3	4-6	3500	0	4
Chester (Sealand)	09.0	+2	SW	2	c	61	65	47	8	8	9	6	2-3	9+	2400	0	*
Manchester ...	09.2	+6	S'W	3	c/pr	57	85	52	8	3	6	-	7-8	9	2500	1	*
Spurn Head ...	09.7	+2	WSW	3	c	68	55	49	7	9	2	-	4-6	7-8	1500	0	3
Catterick ...	08.6	+4	W	4	pr	60	75	51	7	3	4	1	7-8	9+	2500	1	*
Tynemouth ...	07.8	0	SW	4	bc	66	45	46	8	2	3	1	4-6	4-6	2800	0	3
St. Abbs Head	05.9	+10	SW	4	c	62	65	49	9	2	4	-	4-6	10	3500	0	3
Leuchars ...	05.5	+4	SSW	3	c	59	75	50	8	8	6	3	7-8	9+	3000	0	*
Renfrew (Abbotsl.)	05.1	+2	SSW	3	c	59	65	48	8	3	7	2	4-6	9	3000	1	*
Eskdalemuir ...	05.3	+2	SW	5	c	57	75	49	8	5	7	1	4-6	7-8	2200	1	*
Point of Ayre ...	06.9	+2	W	5	bc	65	65	50	8	2	4	6	2-3	4-6	2500	0	4
Tiree ...	04.0	+6	SW'W	2	bc	57	75	51	8	2	3	6	2-3	4-6	3500	0	3
Stornoway ...	01.8	+2	SSW	4	c	57	85	51	9	5	9	8	4-6	7-8	2500	3	3
Dalwhinnie ...	05.1	+4	WSW	3	c	54	75	47	8	8	-	-	9+	9+	2500	0	*
Aberdeen ...	03.9	+4	SSW	4	bc	63	55	49	7	8	-	3	2-3	2-3	2400	0	2
Wick ...	03.3	+4	NNE	1	c/jp	56	85	53	9	9	3	3	4-6	9	2500	1	*
Sumburgh ...	03.2	0	S'W	3	bc	56	85	52	8	5	3	1	1	2-3	3000	0	1
Blacksod Point	05.7	+6	SW'W	5	c	57	75	49	8	9	-	-	9+	9+	2500	1	4
Malin Head ...	04.2	+8	W	4	bc	58	85	53	8	2	-	4	4-6	7-8	2500	1	2
Aldergrove ...	05.7	+4	SW	2	c/pr	58	85	52	8	8	7	3	4-6	9	2500	1	*
Birr Castle ...	07.6	+6	SW	3	c	61	65	49	8	8	-	-	7-8	7-8	1500	1	*
Valentia Obsy.	10.9	+6	W'S	4	bc	59	75	51	8	2	6	-	2-3	2-3	2500	1	5
Roches Point	10.2	+10	W'N	4	c/pr	60	75	52	8	3	4	-	4-6	7-8	1500	1	4

PAST 24 HOURS.

Stations	Weather. 7h.—13h. 7th (39)	13h.—18h. 7th (40)	18h. 7th to 1h. 8th (41)	1h.–7h. 8th (42)
London (Kew)	cbccy	cy	cyc	c,bbcw
Croydon ...	cbcc	cycv	cprbc	bcc
S. Farnborough	bccy	cyvcv	cvypr,cb	bbcb
Boscombe Down	apr,pr,c	cycr,	cpr,b	b,bc
Thorney Island	c	apr,	cpr,bc	bcccb
Lympne ...	cpr,c	bcvc ⊕	cpr,r,r,	cpr,bc
Manston ...	cpr,bc ⊕	cbcc	r,r,tlr	ctlrcm,
Shoeburyness ...	cpr,cy	ay	cycpr	cr,c
Felixstowe ...	bccpr,bc	bcc	cbccirbcb	bbcc
Gorleston ...	ctlr,bc	c	ctlir	bc
Mildenhall ...	cbcycy	cprq	cpr,cb	bbcmcm,
Cranwell ...	bccbcy	bctley.	ctlypr,bcb	bccbm,
Birmingham ...	bcpr,	bcprc	cprbc	bc
Upper Heyford	cpr,c	ccpr,	PRr,r,	bm,cbc
Ross-on-Wye	bccbc	bcyer	bcb	bccbc
Hartland Point	bccbc	bccbcp,	bcp	ciRpr
Bristol ...	crvcpr	ctlr,	cprpr,	cpr pR
Portland Bill ...	cc	c	bcc	cbc
Plymouth ...	cbc	cpr,bc	bbcb	bjpbc
The Lizard ...	bcpr	bc	bcc	cprbc
Scilly (St. Mary's)	bccir,	cbc	bccbc	cb
Guernsey ...				
Pembroke ...	prq	bc	bc	bcpr
Holyhead (Valley)	cbc	bc	c	bccbcbw
Chester (Sealand)	bccy	cy	cybwbc	bcw
Manchester ...	bcpr,y	PRpr	bc	bc
Spurn Head ...	c	c	cbc	cm,
Catterick ...	cm,cy	cycpr,	cpr,cbc	bcpr,c
Tynemouth ...	c	c	bcl	bcm,
St. Abbs Head	bccprc	bcprc	cbc	bcc
Leuchars ...	ccpr	cpr,c	cpr,bcm,	m,bc
Renfrew (Abbotsl.)	cpr,c	cyc	bc	ir,r,rcm,
Eskdalemuir ...	pRRlpr	bcprc	c	ccid,
Point of Ayre ...	cpr,y	cbcc	cbcb	cir,c
Tiree ...	cprbc	bc	bc	cOIR
Stornoway ...	cpr,	cPR	cpr	cpr
Dalwhinnie ...	cpr,	c		cpr,o
Aberdeen ...	cbc	bcy	bcy	bcw
Wick ...	cbc	bccpr	cprcjpc	
Sumburgh ...	cir,cbc	bc	bc,c	cpr,c
Blacksod Point	bc	c	pr	pr
Malin Head ...	pr	r	r	r
Aldergrove ...	c	cPRcpr,cv	cpr,c	cbcc
Birr Castle ...	pr	pr	*	c
Valentia Obsy.	pr	pr	pr	pr
Roches Point	pr	pr	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 8th JULY 1942

Districts	
1 S.E. England	Light or moderate Southwest wind; mainly fair; rather warm.
2 E. England ...	Light or moderate Southwest wind; bright intervals; local thundery showers or thunderstorms; average temperature.
3 E. Midlands ...	
4 W. Midlands	
5 S.W. England	Light or moderate Southwest wind backing South; bright intervals and local showers at first; perhaps occasional rain tomorrow; average temperature
6 South Wales	
7 North Wales	Light or moderate South or Southwest wind; fresh locally; bright intervals; showers; local thunderstorms; average temperature.
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 7-15
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	As 5-6
20 S. W. Ireland	

GENERAL INFERENCE

A depression centred to north of Scotland is filling up slowly and an anticyclone over France is spreading slowly north. A depression may approach Southwest districts from the Atlantic tomorrow. There will be bright intervals and showers in the North and Midlands with local thunderstorms. In the extreme South weather will be mainly fair.

FURTHER OUTLOOK

Bright intervals and showers in the North; perhaps occasional rain in the South.

Forecasts issued at 10.30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Wednesday 8th July 1942.

LOW

1002 1004 1006 1008 1010 1012 1014 1016

STATION MODEL

High Cloud

Medium cloud

Temperature °F.

Present weather

Visibility

Dew Point °F

Low cloud

Amount of Low cloud

Height of Low cloud

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.

M.M.S.O. Press Meteorological Office, Dunstable

C 304/4285 No. 8144 C. 2481 Co. 54812 10075 7/42

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.

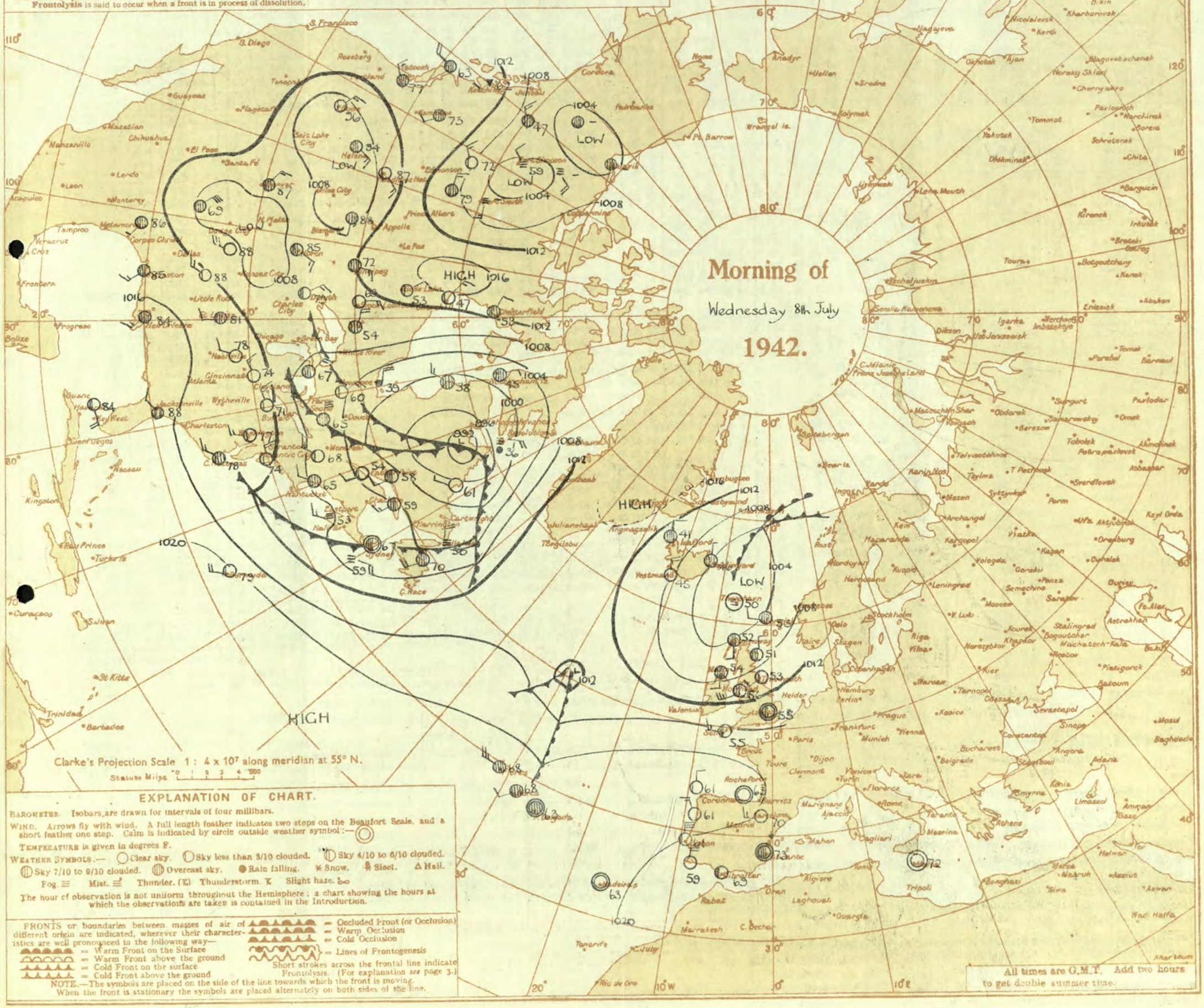
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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.



BRITISH SECTION

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

Wednesday 8th July 1942

No. 29448

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)	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	*	*	*	*	*	57	*	*	*	*	*	*	*	*	*
	Croydon ...	290	20·3	+6	–	0	bc	55	92	54	8	2	6	–	4-6	4-6	2000
	S. Farnborough	226	14·3	+6	SW'W	3	b	52	92	49	8	5	–	–	Tr	Tr	2000
	Boscombe Down	417	15·4	+16	SW'W	3	bc	48	97	47	8	5	–	–	2-3	2-3	3000
	Thorney Island	10	14·9	+8	W'N	3	bc	57	97	55	8	1	–	–	4-6	4-6	1500
	Lympne ...	283	15·7	+2	SW	1	pr	56	97	56	7	2	–	–	9+	9+	2500
	Manston ...	154	14·8	+2	SSW	2	r/+ir	56	97	56	7	8	–	–	9+	9+	5700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	13·6	+6	WSW	2	c	59	75	52	7	5	–	–	1	1	4000
	Gorleston ...	5	13·1	+2	SW'W	2	bc	56	85	51	7	–	4	–	0	2-3	–
	Mildenhall ...	15	13·0	+4	SW'S	3	b	52	92	50	7	–	–	–	0	0	–
	Cranwell ...	263	12·0	+6	SW	3	z_0	50	97	49	6	–	4	–	0	Tr	–
3	Birmingham ...	530	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	13·0	+2	WSW	2	z_0	49	97	48	6	–	3	–	0	Tr	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	13·7	+4	W	4	bc	57	85	51	8	3	–	–	2-3	2-3	2500
	Bristol ...	209	14·7	+6	WSW	4	pr	53	92	51	7	8	6	–	4-6	7-8	1300
	Portland Bill ...	32	15·1	+6	SW	4	c	58	85	54	8	5	–	–	7-8	7-8	4000
	Plymouth ...	82	15·7	+6	W'S	3	bc	55	85	51	8	8	–	–	2-3	2-3	2000
	The Lizard ...	240	16·3	+16	WSW	3	c	55	85	51	8	8	–	–	7-8	7-8	1500
	Scilly (St. Mary's)	163	06·1	+8	W'S	4	bc	55	85	51	8	8	4	–	4-6	4-6	1500
	Guernsey ...	175															
6	Pembroke ...	142	13·6	+10	W'S	5	bc	56	92	54	8	8	–	–	4-6	4-6	4000
7	Holyhead (Valley)	32	10·5	+10	WSW	5	bc	56	85	51	8	2	4	3	Tr	4-6	2500
	Chester (Sealand)	16	10·8	+8	SW'W	2	bc	55	85	49	7	5	3	–	4-6	4-6	4200
8	Manchester ...	235	11·0	+2	S	3	bc	51	92	49	8	5	–	–	4-6	4-6	3500
10	Spurn Head ...	29	11·0	0	SW	3	bc	55	85	51	7	1	–	–	2-3	2-3	2500
	Catterick ...	175	09·8	0	SSW	3	bc	54	92	51	7	8	4	–	4-6	7-8	3000
	Tynemouth ...	108	08·8	+2	SW	2	bc	53	85	48	6	–	4	–	0	2-3	–
11	St. Abbs Head	280	06·7	+8	SW	4	bc	52	92	50	7	5	4	–	4-6	4-6	4000
	Leuchars ...	36	06·2	+10	SW	2	z_0	50	97	50	5	4	–	–	4-6	4-6	3500
12	Renfrew (Abbots I.)	19	07·1	+8	SW	1	bc	53	85	49	8	5	–	–	7-8	7-8	3500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	08·8	+10	W'S	3	b	58	85	49	8	4	–	–	1	1	5000
13A	Tiree ...	22	05·1	0	SSW	2	bc	52	92	50	8	8	3	5	2-3	2-3	3500
13B	Stornoway ...	80	03·4	+8	S	2	c	52	97	51	8	5	3	–	2-3	7-8	3500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	05·6	+6	N	1	c	51	85	47	9	5	–	1	7-8	7-8	4000
	Wick ...	114	04·6	+2	–	0	c	51	92	50	9	5	7	6	4-6	7-8	3000
16	Sumburgh ...	19	04·5	+8	SSW	2	c	52	97	51	8	5	7	–	4-6	9	3000
17	Blacksod Point	18	07·1	+6	SW	5	c/pr	55	85	50	8	8	3	3	4-6	7-8	1500
18	Malin Head ...	84	05·3	+4	S	3	ir	54	97	53	7	8	2	–	4-6	10	1500
	Aldergrove ...	268	07·8	+2	S'W	2	c	52	85	47	8	5	7	–	7-8	9	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	12·3	+2	SW'W	4	bc/pr	53	85	48	8	3	–	–	2-3	2-3	2500
	Roches Point	22	13·0	+6	W	3	bc	54	85	49	8	5	–	–	2-3	2-3	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)	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)	Ses. 0–9 (32)
1	London (Kew)	17·1	+18	SW	2	bc	58	75	51	8	1	4	4	Tr	4-6	2500	1	*
	Croydon ...	16·7	+18	WSW	2	bc	57	85	51	7	5	8	2	Tr	2-3	1200	1	*
	S. Farnborough	16·9	+20	WSW	3	bc	56	75	50	9	5	–	4	Tr	2-3	1000	0	*
	Boscombe Down	17·0	+14	WSW	4	bc	55	85	51	8	5	–	–	2-3	2-3	5000	0	*
	Thorney Island	17·0	+14	W	4	b	58	85	52	8	1	–	1	Tr	Tr	2500	0	*
	Lympne ...	17·6	+18	WSW	1	bc	56	92	54	8	5	9	2	Tr	4-6	500	1	§2
	Manston ...	16·2	+14	WSW	2	c	59	85	53	7	2	3	–	1	7-8	2500	1	*
2	Shoeburyness ...	16·3	+18	WSW	3	c	59	75	51	7	–	7	8	0	7-8	–	0	*
	Felixstowe ...	15·3	+12	WSW	3	bc	58	75	51	8	–	7	2	0	9	–	0	2
	Gorleston ...	14·9	+10	WNW	2	bc	55	85	49	7	–	–	3	0	4-6	–	1	3
	Mildenhall ...	14·8	+10	SW'W	3	c	59	65	47	7	–	7	2	0	7-8	–	1	*
	Cranwell ...	13·6	+10	WSW	3	z_0	53	85	50	6	–	3	2	0	4-6	–	1	*
3	Birmingham ...	14·7	+16	WSW	2	bc	52	92	50	8	–	7	–	0	2-3	–	1	*
	Upper Heyford	15·6	+22	SW'S	4	bc	53	97	52	7	5	7	2	2-3	7-8	400	1	*
4	Ross-on-Wye	15·1	+10	WSW	3	bc	55	85	49	8	8	–	–	2-3	2-3	3500	0	*
5	Hartland Point	15·7	+14	W	4	bc/pr	55	85	51	8	3	4	–	2-3	4-6	1200	1	4
	Bristol ...	16·4	+14	SW'S	4	bc/pr	54	92	51	7	8	3	–	2-3	4-6	1500	1	*
	Portland Bill ...	17·5	+18	WSW	3	bc	57	85	53	8	2	–	–	4-6	4-6	4000	1	4
	Plymouth ...	17·5	+10	WSW	3	bc	55	85	53	8	5	–	–	2-3	2-3	2500	0	3
	The Lizard ...	17·7	+12	WSW	3	bc	57	92	55	8	8	6	–	4-6	4-6	2500	0	4
	Scilly (St. Mary's)	17·7	+12	WSW	3	bc	58	85	51	8	8	–	–	2-3	4-6	1500	1	3
	Guernsey ...																	
6	Pembroke ...	15·1	+14	WSW	4	PR	56	85	52	8	8	6	–	2-3	4-6	3000	1	3
7	Holyhead (Valley)	12·3	+10	SW	4	c	57	75	49	8	2	6	3	Tr	7-8	2500	0	2
	Chester (Sealand)	12·8	+10	SSW	2	bc	58	65	48	8	2	6	1	2-3	2-3	2000	0	*
8	Manchester ...	13·1	+18	S	2	bc	55	85	50	8	2	4	2	2-3	4-6	3000	0	*
10	Spurn Head ...	12·4	+10	WSW	4	c	55	85	51	6	3	7	–	4-6	7-8	4000	0	3
	Catterick ...	11·6	+12	W'S	2	c	58	75	48	8	8	3	1	4-6	7-8	3000	0	*
	Tynemouth ...	10·7	+14	WSW	3	bc	56	85	49	5	–	4	1	0	4-6	–	0	2
11	St. Abbs Head	08·1	+14	SSW	4	c	51	92	49	8	5	4	–	4-6	9	4900	0	3
	Leuchars ...	07·2	+6	SW	3	ir_0	55	85	50	6	5	3	9	2-3	9	1600	0	*
12	Renfrew (Abbots I.)	08·0	+10	SSW	3	c/r	55	85	52	6	6	2	–	4-6	10	1000	1	*
	Eskdalemuir ...	09·2	+6	SW'S	4	id_0	52	85	48	8	5	–	–	10	10	1100	1	*
	Point of Ayre ...	10·2	+12	W	4	c	56	85	51	8	5	3	8	4-6	7-8	4000	0	3
13A	Tiree ...	04·8	0	SSW	2	r_0r_0	53	97	53	7	–	2	–	10	10	1500		3
13B	Stornoway ...	04·5	+12	SE	2	pr	52	97	51	7	5	7	–	9	10	1000	1	1
15	Dalwhinnie ...	06·0	+2	SW	2	pr	50	85	46	7	5	–	–	10	10	1500	1	*
	Aberdeen † ...	07·0	+6	NNW	1	bc	56	75	49	8	9	8	–	1	4-6	2800	1	1
	Wick ...	05·8	+8	–	0	c	54	92	52	9	5	3	–	4-6	7-8	4000	1	*
16	Sumburgh ...	06·0	+8	SSW	2	c/pr	53	97	52	9	8	3	–	2-3	9	2500	0	1
17	Blacksod Point	08·4	+12	W'S	4	c/pr	56	92	54	8	8	3	–	7-8	9	1500	1	4
18	Malin Head ...	05·8	+6	SSW	4	iR	54	97	53	7	8	2	–	4-6	9+	800	1	3
	Aldergrove ...	08·9	+10	SSW	3	c	53	85	49	8	5	–	–	9+	9+	1000	1	*
19	Birr Castle ...	11·5	+16	WSW	3	c	55	85	51	8	5	4	–	4-6	7-8	2500	1	*
20	Valentia Obsy.	13·5	+10	WSW	3	bc	56	85	52	8	2	6	1	4-6	4-6	2500	1	4
	Roches Point	14·1	+10	W'S	3	bc	53	92	51	8	5	–	–	2-3	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 7th Hrs. (38)
1	London (Kew)	69	54	47	–	–	11·6
	Croydon ...	70	51	49	–	0·2	13·0
	S. Farnborough	71	50	41	–	Tr	11·9
	Boscombe Down	69	47	42	Tr	0·3	8·2
	Thorney Island	68	51	47	Tr	0·4	*
	Lympne ...	69	52	*	Tr	3	6·7
	Manston ...	70	55	52	Tr	1	6·0
2	Shoeburyness ...	74	55	49	1	0·2	7·7
	Felixstowe ...	72	56	50	Tr	0·3	8·7
	Gorleston ...	66	51	46	9	1	4·4
	Mildenhall ...	73	49	44	2	4	6·5
	Cranwell ...		49	47	–	6	8·0
3	Birmingham ...	68	49	45	1	2	7·4
	Upper Heyford	68	48	45	2	2	*
4	Ross-on-Wye	67	51	46	1	–	7·9
5	Hartland Point	60	52	50	Tr	10	11·9
	Bristol ...	67	52	46	8	6	4·6
	Portland Bill ...	(59)	54	*	*	–	*
	Plymouth ...	65	54	49	Tr	–	8·8
	The Lizard ...	62	54	*	1	Tr	10·6
	Scilly (St. Mary's)	63	54	*	Tr	–	10·6
	Guernsey ...						
6	Pembroke ...	60	49	*	0·6	Tr	6·6
7	Holyhead (Valley)	63	54	49	–	Tr	*
	Chester (Sealand)	69	52	43	–	–	6·3
8	Manchester ...	66	49	46	2	–	*
10	Spurn Head ...	71	50	*	–	3	10·6
	Catterick ...	63	51	44	0·1	0·2	6·7
	Tynemouth ...	68	52	49	–	–	*
11	St. Abbs Head	66	49	*	1	–	*
	Leuchars ...	63	47	42	1	Tr	4·5
12	Renfrew (Abbots I.)	63	50	42	Tr	1	6·9
	Eskdalemuir ...	61	47	45	2	Tr	6·9
	Point of Ayre ...	68	51	*	0·1	Tr	5·8
13A	Tiree ...	60		*	0·2		5·8
13B	Stornoway ...	59	52	*	4	1	3·7
15	Dalwhinnie ...	61	49	41	0·2	0·1	5·9
	Aberdeen † ...	67	47	36	–	–	8·2
	Wick ...	65	45		1	4	*
16	Sumburgh ...	59	50	39	Tr	Tr	7·9
17	Blacksod Point	67	53	*	0·4	2	*
18	Malin Head ...	60	53		9	3	10·5
	Aldergrove ...	65	51	47	3	Tr	5·3
19	Birr Castle ...	62	49	46	5	0·1	7·3
20	Valentia Obsy.	60	52	48	1	1	8·9
	Roches Point	63	52	*	3	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 7th July			18h. G.M.T.			01h. G.M.T. 8th July			07h. G.M.T.		
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	86	25755	14284	8-	81877	25387	73	02864	19285	7-	02776	00026
115				54	02944	20386	52	02844	20327	55	02944	20327
203				84	01944	18425				5-	81848	
206	8-	25967	55487	3-	25965	24386	5-	01964	24114	53	02966	
210	86	25954	20386	86	25955	21286	46	02863	17224	5-	01962	00015
220												
230	87	25955	20387	87	02953	20385	87	02955	17125	52	62744	20268
245	86	25764	19486	36	01963	20484	53	01863	25183	84	02865	28216
260	26	81755	21386	8-	25855	22386	50	01863	18213	83	02854	21317
278	36	25952	20387	36	01854	18385	86	25846	18387	86	01844	18385
279	26	01953	53524	87	01963	20414	5-	02857	54414	8-	02747	21427
285	27	81855	24586							23	01744	20514
288	86	02865	34427	99	01864	56385	56	00762	17312	24	01862	17324
575	36	25845	20287	36	81845	24286	26	57487	57487	5-	02857	24357
301	8-	02955	22487	26	02952	22585	8-	25865	22586	23	02852	22525
321	87	02755	20487	37	02854	21326	04	00790	18382	54	05663	20326
299	8-	25757	26387	84	01753	22314	54	01733	22233	50	05664	22214
292	86	02765	14326	36	11755	18386	40	00762	18292	83	05654	20217
310	--	25638	20488							--	01634	24414
614	26	02764	18485	57	02755	26227	00	08430	18190	57	05543	22226

	13h. G.M.T. 7th July			18h. G.M.T.			01h. G.M.T. 8th July			07h. G.M.T.		
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	23	02964	20425	26	01853	19413				85	01862	22414
334												
340							50	01873	18303			
136	26	02856	18387	86	02874	18485	06	01790	19381	59	05653	22317
336	23	22753	20463	57	02754	22417				10	01754	24414
350				86	81855	20367	00	05690	18281	77	00752	18323
368	84	01954	22414	34	01953	22484	80	01854	22414	83	01844	20484
379	3-	81846	53487	3-	81748	53388	00	42790	20340	53	49616	20347
390	2-	02765	20466	83	02764	17426	40	00751	20381	08	05690	22314
382	86	10855	22384	8-	81858	22[illegible]	04	00790	00001	87	02953	21325
438				37	02754	22427	3-	63748	22486	24	01733	24314
430	80	02864	18426	89	02854	22427	50	01745	20215	20	01854	22214
409	8-	02965	20516	20	00963	22423	50	01854	18214	26	00861	21328

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 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 ...	cbccy	cy	bcwcyc	
Croydon ...		cycv	bccpr	
Greenwich ...	cy	cy	crbccy	Kew 24 hours ended 7h.
Camden Square	c	c	*	Max. Time
Kensington ...	bc	bc	*	20·1 whole
Hampstead ...	bc	bc	bc	Min. Time 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 %	Humidity 9h % To-day
Kew ...	69	54	47	–	–	11·2	*	*
Croydon ...	70	51	49	–	0·2	13·0	*	*
Greenwich ...	72	52	41	–	Tr	11·7	42	55
Westminster ...	71	54	49	–	–		54	65
Regents Park ...	72	53	51	Tr	–	–	56	61
Camden Square	73	54	49	–	–	*	*	66
Kensington ...	73	53	47	0·2	–		48	59
Hampstead ...	71	50	47	–	–		*	65

Page 1 BRITISH SECTION

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

SECRET

Thursday 9th July 1942

No. 29449

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)	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)	18·1	-10	W'S	3	c/r	65	55	45	8	8	-	6	9	9+	2500
	Croydon	18·1	-6	SW'W	3	c	66	65	48	8	8	-	-	2-3	9+	3500
	S. Farnborough	17·9	+6	WSW	4	c/pr	68	45	44	9	8	-	-	9	9	2000
	Boscombe Down	18·0	+4	SW'W	5	c	65	55	47	8	8	6	1	4-6	7-8	3000
	Thorney Island	19·0	+10	SW	5	bc	66	65	51	9	2	6	1	1	2-3	2500
	Lympne	19·5	+10	WSW	4	c/pr	64	75	55	8	2	6	-	7-8	9	2000
	Manston	18·0	+6	WSW	3	c	68	55	53	8	9	6	-	7-8	9+	2000
2	Shoeburyness	17·4	+2	WSW	3	c	69	45	47	8	2	6	5	4-6	9	3000
	Felixstowe	19·6	+4	W'S	4	c	70	45	48	8	2	-	2	7-8	7-8	2500
	Gorleston	16·5	+28	WNW	3	bc	68	45	47	8	2	-	-	2-3	2-3	3400
	Mildenhall	16·2	+2	W'S	5	c	67	45	46	9	8	6	2	7-8	9	2500
	Cranwell	14·7	+2	WSW	5	c	67	45	47	7	2	6	-	4-6	9	3000
3	Birmingham	15·5	0	SW	4	c	65	55	50	8	8	7	2	7-8	9	2500
	Upper Heyford	16·9	+6	SW	4	c	65	45	45	9	8	6	-	4-6	9	3500
4	Ross-on-Wye	16·7	+6	SW'W	5	cjp	61	65	51	8	8	-	9	7-8	7-8	3500
5	Hartland Point	17·7	+10	WSW	4	bc	58	85	54	8	3	4	1	2-3	4-6	1500
	Bristol	18·7	+8	W	5	pr	65	65	53	8	9	6	3	9+	9+	2500
	Portland Bill	18·8	+4	WSW	4	c	58	85	53	8	2	-	-	7-8	7-8	4000
	Plymouth	20·0	+10	SW	4	cjp	62	75	55	7	8	7	-	7-8	9+	2500
	The Lizard	19·7	+6	WSW	4	tl	62	85	57	8	8	2	-	7-8	9+	2500
	Scilly (St. Mary's)	19·5	+10	SW'W	4	cjp	61	85	59	8	8	7	-	4-6	9+	1500
	Guernsey															
6	Pembroke	17·2	+12	SW'W	4	bc	60	85	56	8	2	6	3	2-3	4-6	3000
7	Holyhead (Valley)	13·7	+2	S'W	5	bc	63	65	52	8	2	6	6	Tr	4-6	3000
	Chester (Sealand)	14·4	+4	SW'W	4	c	69	55	50	8	2	-	2	4-6	7-8	3000
8	Manchester	13·7	-2	WSW	3	c	62	65	49	9	2	6	-	7-8	7-8	2500
10	Spurn Head	14·3	+6	SSW	3	c	63	65	50	7	3	4	-	4-6	7-8	1500
	Catterick	12·9	+2	WSW	3	c	64	55	46	9	8	4	-	9	9	2500
	Tynemouth	11·7	+2	WSW	5	c/pr	65	55	45	7	2	3	-	4-6	7-8	2000
11	St. Abbs Head	08·9	0	SW	4	c/pr	61	75	52	8	8	4	-	7-8	9+	3500
	Leuchars	08·1	0	SW	4	c	64	65	50	7	2	6	4	4-6	7-8	2000
12	Renfrew (Abbots I.)	08·6	-6	SW'S	4	pr	58	85	52	7	8	2	-	7-8	9+	3500
	Eskdalemuir	10·2	+4	SW	4	c/pr	56	85	49	8	8	-	-	10	10	1700
	Point of Ayre	11·2	-2	WSW	6	bc	67	65	55	8	1	6	-	2-3	4-6	2500
13A	Tiree	06·5	+10	WNW	3	bc	60	85	54	8	8	4	-	4-6	4-6	2500
13B	Stornoway	06·2	+10	NNW	1	pr	53	97	53	7	8	7	-	7-8	10	1500
15	Dalwhinnie	07·0	+2	SW	3	bc	55	75	48	8	8	4	1	4-6	4-6	2500
	Aberdeen	01·8	+4	SW'W	2	ifo	60	75	51	7	1	7	-	4-6	10	1800
	Wick	06·7	+6	ESE	2	bc	58	85	53	8	8	3	1	4-6	4-6	4000
16	Sumburgh	07·6	+6	SW	2	c	57	75	50	9	8	3	-	2-3	7-8	3500
17	Blacksod Point	11·9	+14	W'S	4	c/pr	59	85	54	8	5	-	-	9+	9+	1500
18	Malin Head	08·4	+18	WNW	4	c	59	97	58	8	8	-	-	7-8	7-8	1500
	Aldergrove	09·7	+2	SWS	3	PR	61	75	52	7	8	7	-	7-8	9+	1000
19	Birr Castle	13·0	+2	WSW	4	c	63	65	52	8	4	-	-	7-8	7-8	2500
20	Valentia Obsy.	16·3	+14	W'S	4	c	59	75	51	9	8	-	-	7-8	7-8	2500
	Roches Point	15·7	+6	W'S	3	bc	59	85	54	8	3	-	5	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 8th 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. (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. 8th (39)	Weather 13h.–18h. 8th (40)	Weather 18h. 8th to 1h. 9th (41)	Weather 1h.–7h. 9th (42)
London (Kew)	18·2	+4	WSW	3	c	62	65	51	8	8	-	-	9+	9+	2500	1	*	cirocy	crocproc	eprₒc	c
Croydon	18·4	+2	SW	3	c/pr	62	65	51	8	8	3	-	7-8	10	2500	0	*	bccpro	cycpro	cbcc	cvₒvₒc
S. Farnborough	18·7	+6	W'S	2	c/pr	59	75	51	9	8	7	-	4-6	10	3000	1	*	cvprocy	cypRqc	cprₒqbcc	ivₒc
Boscombe Down	19·2	+2	W'N	3	c/pr	57	85	53	8	2	7	-	9	10	3000	1	*	bcprobc	cprjp	cbccrₒ	cirₒc
Thorney Island	19·3	0	SW	4	c	61	85	55	9	2	7	-	2-3	9+	1500	0	*	bbc	bcc	bcc	
Lympne	20·0	+4	SSW	3	c	60	75	50	8	4	7	6	Tr	9+	3500	0	*	cbbcpro	cbcc	cbc	bccirₒm
Manston	18·7	+2	SW'W	4	c	64	55	49	8	2	7	-	1	9+	3000	0	*	cbcrbc	cbcc	cycbc	cirₒmₒc
Shoeburyness	18·3	+2	WSW	3	c	66	55	49	8	8	2	-	7-8	10	3000		*	cbccy	cpry	cycpₒc	cirₒc
Felixstowe	17·2	+2	SW	3	c	68	55	50	8	2	7	-	2-3	9+	2500	0	2	cbccy	cy	cycprₒcbc	bccirₒmₒ
Gorleston	16·8	-2	W'N	3	c	67	45	44	7	5	-	-	9	9	3000	0	3	cbcy	bccy	cybrₒcm	cbc
Mildenhall	16·6	0	SWW	4	c	66	55	48	9	8	3	2	4-6	9+	3000	0	*	bcycy	cu	bcc	cbcc
Cranwell	15·4	+6	SW	4	c	62	65	50	7	4	6	3	2-3	7-8	4000	0	*	bcc	cprobc	bcbc	bcc,b
Birmingham	16·1	0	W	3	c	60	65	48	8	8	7	-	9	9+	2500	1	*	bcproc	cprobc	cprₒ	cbcc
Upper Heyford	16·9	+2	SW	4	c	63	55	48	9	4	7	6	2-3	9	3000	1	*	bcproc	cy	cybc	bc
Ross-on-Wye	17·0	+4	W'S	4	pr	60	75	51	8	8	7	-	7-8	9	3000	0	*	bcc	pₒcqc		bcbbc
Hartland Point	17·7	0	WSW	4	c	59	85	55	8	3	7	-	2-3	7-8	2000	1	+	bcp	prc	cprir	rrcO
Bristol	18·8	+2	W	4	c	61	75	52	8	4	5	9	1	9+	5700	1	*	bccpro	cvproc	cprₒc	cprₒc
Portland Bill	19·5	+2	WSW	4	c	58	85	56	8	5	-	-	10	10	4000	1	4	c	c	OO	O
Plymouth	20·0	-2	WSW	5	c	60	75	53	8	7	7	-	4-6	9+	5000	0	4	bbc	cproc	cprₒrₒrₒ	rₒrₒirₒc
The Lizard	20·2	0	SW'W	3	c	61	85	57	8	8	1	-	7-8	10	1500	1	3	bcc	c	prerr	bc
Scilly (St. Mary's)	19·8	+2	SW'W	3	cjp	60	75	53	8	8	7	7	4-6	10	1500	1	3	cpₒc	c	cprₒrₒ	cvₒvₒc
Guernsey																					
Pembroke	17·3	+2	WSW	5	c	59	85	55	8	2	3	3	2-3	7-8	3000	1	3	cbc	c	bcc	bcw
Holyhead (Valley)	14·1	+4	SSW	6	c	59	75	52	8	8	6	1	2-3	7-8	3000	0	4	cbcb	bcc	cprₒbc	cirₒ
Chester (Sealand)	14·5	+2	SW	4	bc	64	55	48	8	8	3	8	2-3	4-6	3500	0	*	cbcy	bcy	bcc	cbc
Manchester	14·2	+4	SW	4	bc	63	55	47	9	2	6	3	4-6	4-6	4000	0	*	crₒcR	cbcy	bcyc	cbcmₒw
Spurn Head	14·4	0	SW	4	c	64	55	58	7	7	4	4	4-6	7-8	4000	0	3	cproc	c	bc	c
Catterick	13·6	+8	WSW	4	c	61	65	48	9	4	6	9	7-8	9+	2500	0	*	c	cbcyc	c	cbcc
Tynemouth	12·0	+2	WSW	5	c	63	55	48	7	8	-	-	7-8	7-8	2600	1	2	bcmₒcpₒ	c	cbc	bcc
St. Abbs Head	08·8	0	SSW	5	c/pr	59	75	51	8	5	4	-	7-8	9	3500	0	3	cpr	cpro	bc	bcc
Leuchars	07·8	0	SW	4	c/pr	61	75	53	8	8	6	-	9	9+	2000	1	*	crₒrₒmₒc	ccproc	cprₒbc	bccivc
Renfrew (Abbots I.)	09·2	+4	W'S	3	pr	59	75	51	9	8	-	-	4-6	9+	1800	1	*	bcrₒrₒc	cpro	cprₒ	cprₒ
Eskdalemuir	10·4	0	SW'S	4	ir	55	92	52	6	5	-	-	10	10	1400		*	idₒcpr	cprir	cirₒ	c
Point of Ayre	12·3	+10	W'S	5	c/pr	60	85	54	8	9	7	3	4-6	9+	2500	0	4	cbc	cpro	cprc	c
Tiree	08·9	+6	NW'W	3	c	57	85	53	8	8	3	-	4-6	7-8	3500	0	4	bc	bcc	c	c
Stornoway	07·8	+6	-	0	PR	55	97	55	7	8	7	-	7-8	10	1500	1	1	cpr	CPR	c	cpr
Dalwhinnie	08·5	+2	SW	2	c	55	92	52	8	5	-	-	9+	9+	2500	1	*	oproc	cpro		cpro
Aberdeen	07·5	-4	SW	2	bc	60	75	58	7	8	-	3	4-6	4-6	2200	0	2	bcirₒ	cprobc	bccprₒ	c
Wick	07·3	+2	SE	1	c	57	85	53	9	8	7	6	2-3	9+	3500	0	*	c	cjpc	cjprₒc	c
Sumburgh	08·2	+2	SE	1	c	57	85	51	9	2	3	-	1	7-8	4000	0	1	cbcc	cbcc	s,bc	
Blacksod Point	13·9	+12	WNW	3	bc	59	85	54	8	8	3	-	4-6	4-6	2500	1	3	pr	bc	bc	c
Malin Head	10·5	+10	WNW	4	c	58	85	53	8	2	-	5	4-6	7-8	2500	1	3	pr	pr	pr	pr
Aldergrove	11·5	+6	W	2	pr	60	75	53	8	8	6	-	4-6	9+	2500	1	*	cprₒcPR	cPRc	cprₒcbc	bcbc
Birr Castle	13·9	+4	WSW	3	c	61	65	49	8	8	-	-	9	9	1500	1	*	c	c		bc
Valentia Obsy.	16·9	+2	W	4	bc	60	75	52	9	2	-	2	2-3	4-6	1500	1	4	pr	bc	pr	pr
Roches Point	16·3	+6	W'S	5	c	59	85	54	9	3	-	5	4-6	7-8	1500	1	4	pr	c	bc	bc

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light Southwest winds veering West; considerable fair periods; a few local showers with chance of some thunder in the afternoon and evening: average temperature.
4 W. Midlands, 5 S.W. England, 6 South Wales	Light to moderate West to Northwest winds; mainly fair except for scattered local showers: average temperature.
7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	Moderate Northwest winds; variable sky; some showers with local thunderstorms: average temperature or rather below.
12 S.W. Scotland & Isle of Man, 13A W. Scotland	Moderate Northwest winds; fair periods; a few local showers; average temperature.
13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Light northerly winds; mainly cloudy, rather showery: rather cool.
16 Orkneys and Shetlands	As 13B-15.
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland	As 7-11.
20 S. W. Ireland	As 4-6.

GENERAL INFERENCE

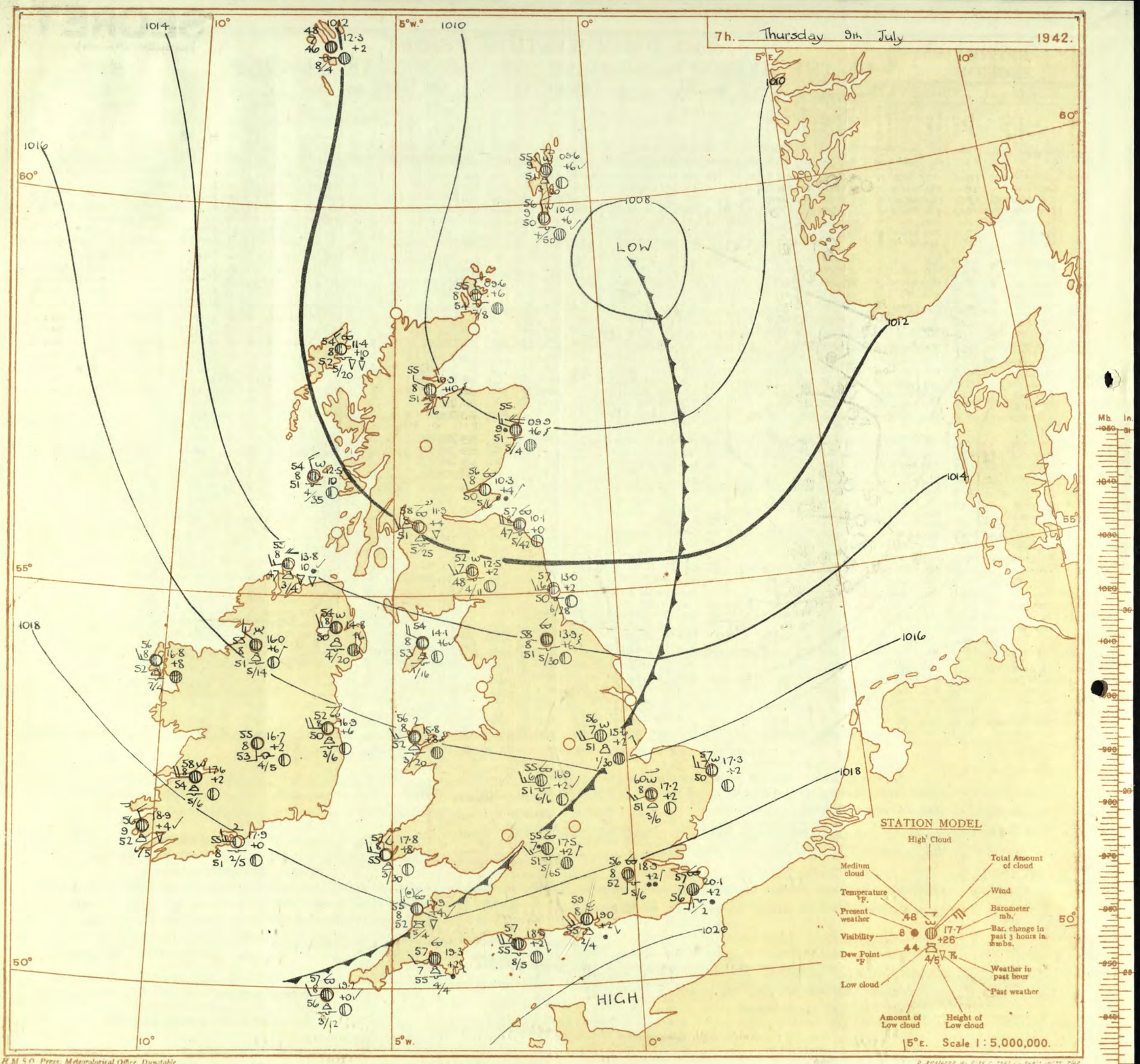
Pressure is high in Mid-Atlantic. A shallow depression off East Scotland is filling up slowly and a feeble trough associated with it, extending over East England and the Midlands will move southeast. There will be further local thunderstorms and thundery showers in the northeastern half of the British Isles, but many areas will have considerable fair periods.

FURTHER OUTLOOK

Further thundery showers in many districts but fair periods.

Forecasts issued at 10·30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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.

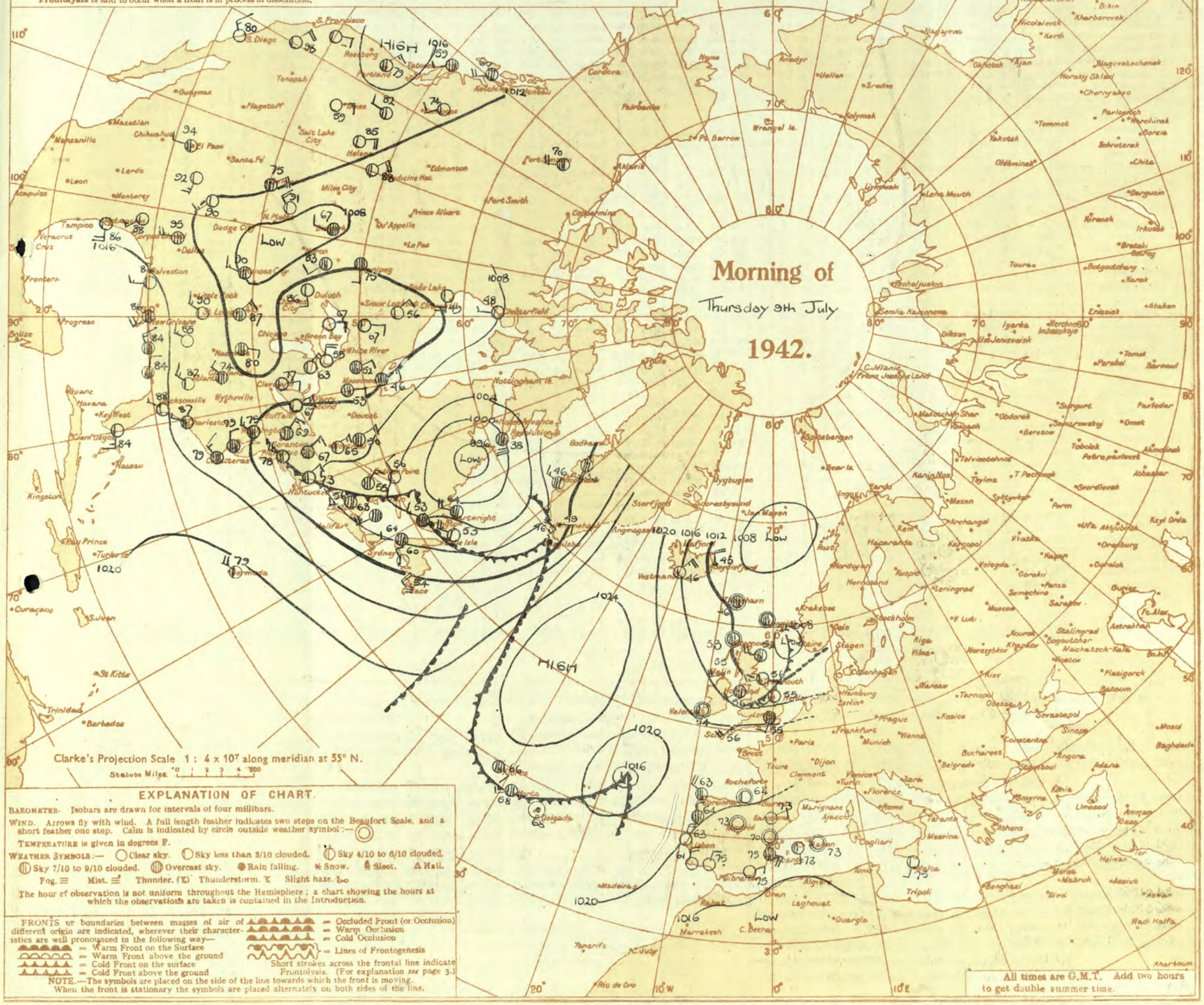
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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.



BRITISH SECTION

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

Thursday 9th July 1942

No. 29449

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)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	56	*	*	*	*	*	*	*	*	*
	Croydon	290	19·2	+2	SSW	2	c	55	92	53	7	5	–	–	4-6	10	2000
	S. Farnborough	226	19·1	0	SW	3	c	56	85	52	7	5	1	–	2-3	10	2500
	Boscombe Down	417	19·6	0	SW'S	3	r₀r₀	55	85	51	8	5	–	–	10	10	5000
	Thorney Island	10	19·4	-2	WSW	3	bc	59	85	55	8	5	–	–	9	9	4000
	Lympne	283	20·3	-4	WSW	2	bc	55	97	54	8	5	3	2	Tr	4-6	6000
	Manston	154	19·3	-2	SW'S	2	c	54	92	52	7	–	7	–	0	9+	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	17·9	-2	SW'W	3	bc	59	85	54	7	5	–	–	7-8	7-8	4000
	Gorleston	5	17·3	0	W'N	2	c	59	75	49	6	5	–	–	7-8	10	2500
	Mildenhall	15	17·2	-2	SW'W	3	c	56	85	50	8	–	3	–	0	9	–
	Cranwell	203	15·7	+4	SW'W	3	20	53	85	49	6	–	–	8	0	7-8	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	17·6	0	SW'W	2	bc	54	85	50	8	–	7	–	0	2-3	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17·8	-4	WSW	4	iv	57	97	55	7	8	2	–	7-8	9+	1500
	Bristol	209	18·8	-4	SW'W	4	c/pr	56	85	52	8	2	6	6	2-3	7-8	1500
	Portland Bill	32	19·2	-2	SW	4	o	56	92	54	7	5	–	–	10	10	2500
	Plymouth	82	20·2	0	SW	2	r₀r₀	56	92	53	7	5	–	–	10	10	1600
	The Lizard	240	20·2	-4	SW	1	r₀r₀	55	97	55	7	5	–	–	10	10	1000
	Scilly (St. Mary's)	163	20·2	0	SW'W	4	r₀r₀	56	97	54	7	5	2	–	7-8	10	1000
	Guernsey	175															
6	Pembroke	142	17·8	+2	WSW	5	c	56	97	54	8	8	6	–	4-6	7-8	4000
7	Holyhead (Valley)	32	15·0	+2	WSW	4	c	56	92	54	8	2	6	3	Tr	9	3000
	Chester (Sealand)	16	15·2	+2	SW'W	2	c	57	85	52	7	5	7	–	7-8	7-8	4200
8	Manchester	235	15·4	+2	S	3	c	53	85	50	9	4	6	–	7-8	9	4000
10	Spurn Head	29	15·2	+4	SW	4	bc	55	85	50	7	4	6	–	1	2-3	2500
	Catterick	175	13·8	+2	–	0	bc	55	85	51	7	–	–	–	7-8	7-8	2000
	Tynemouth	108	12·9	+2	W	3	bc	56	85	50	7	–	4	–	0	2-3	–
11	St. Abbs Head	280	09·9	+4	W	4	bc	53	92	49	8	5	4	–	2-3	4-6	4000
	Leuchars	36	09·8	+10	WSW	3	bc	53	92	51	7	5	3	–	4-6	4-6	3000
12	Renfrew (Abbots I.)	19	11·4	+4	WSW	3	pr	55	85	51	8	8	–	–	9+	9+	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	13·3	+4	W	2	c	54	97	54	8	8	7	–	4-6	7-8	2500
13A	Tiree	22	11·3	+6	NW	3	c	54	92	52	8	5	–	–	4-6	4-6	3500
13B	Stornoway	80	10·1	+10	–	0	c	53	97	52	7	5	7	–	7-8	9+	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	09·0	+10	WNW	3	c	52	85	48	8	5	–	–	9+	9+	3200
	Wick	114	09·1	+6	NNE	1	c	53	97	52	8	7	–	–	9+	9+	5000
16	Sumburgh	19	09·3	+4	N'E	1	c	53	92	51	8	5	–	–	7-8	7-8	4000
17	Blacksod Point	18	16·2	+2	W'N	3	bc	54	85	50	8	5	–	–	2-3	2-3	2500
18	Malin Head	84	12·7	+6	W	3	pr	55	85	51	7	2	2	–	7-8	9+	1500
	Aldergrove	268	14·0	+10	W	2	bc	53	85	50	8	8	3	–	4-6	4-6	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	18·4	+2	–	0	6	54	92	52	8	1	–	–	Tr	Tr	2500
	Roches Point	22	17·9	+6	W	3	bc	55	85	51	8	5	–	–	2-3	2-3	1500

OBSERVATIONS at 7 hr. G.M.T. 9th 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)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	18·3	+2	SW	2	c	58	85	52	8	8	7	–	7-8	10	2500	1	*
Croydon	18·9	+2	SSW	1	c/r	56	85	52	8	5	7	–	7-8	10	3500	1	*
S. Farnborough	18·7	+2	SW'W	3	c	57	85	52	8	5	7	–	9	10	2000	0	*
Boscombe Down	19·0	0	SSW	3	c	55	85	51	8	5	7	–	7-8	9+	6000	0	*
Thorney Island	19·0	-2	WSW	3	c	59	85	55	8	2	9	–	1	9+	1500	1	*
Lympne	20·1	+2	SSW	1	c	57	97	56	7	5	7	–	Tr	10	200	1	§2
Manston	18·7	-4	SW	2	c/r	57	92	54	7	–	7	–	0	10	–	0	*
Shoeburyness	18·7	+2	SW	3	ir₀	57	85	53	8	5	7	–	4-6	10	2800	0	*
Felixstowe	17·8	-2	SW'W	3	ir₀	59	85	53	6	5	7	–	1	9+	4000	0	3
Gorleston	17·4	+2	WNW	3	bc	57	75	50	7	–	3	–	0	7-8	–	0	2
Mildenhall	17·2	-2	SW'W	3	c	60	75	51	8	1	3	1	2-3	7-8	4000	0	*
Cranwell	15·6	-2	WSW	4	c	56	85	51	7	2	3	–	Tr	7-8	3000	0	*
Birmingham	16·9	+2	WSW	3	c	55	85	50	6	5	7	–	9	9+	4000	1	*
Upper Heyford	17·9	+2	SW	3	ir₀	55	85	51	7	5	7	–	7-8	9+	6500	0	*
Ross-on-Wye	17·3	0	SW'W	2	bc	58	75	52	8	1	–	2	Tr	2-3	3000	0	*
Hartland Point	17·9	+4	WNW	3	cjp	55	92	52	8	3	7	–	7-8	9+	1300	1	
Bristol	18·9	+6	SW	4	cjp	57	85	52	7	3	3	–	7-8	9	2500	1	*
Portland Bill	18·5	-2	W	4	o	57	92	55	7	5	–	–	10	10	2500	1	4
Plymouth	19·3	-2	SW'W	2	c	57	92	55	7	8	7	–	4-6	10	1500	1	3
The Lizard	19·5	0	WNW	3	c	56	92	54	8	8	2	–	9	10	1500	1	3
Scilly (St. Mary's)	19·2	0	WSW	2	c	57	97	55	8	8	7	–	2-3	9+	1200	1	3
Guernsey																	
Pembroke	17·8	+8	W'N	3	bc	57	92	55	8	2	4	1	2-3	2-3	3000	1	3
Holyhead (Valley)	15·8	+8	WSW	3	c	56	85	52	8	8	3	6	2-3	9	2000	1	2
Chester (Sealand)	15·6	+6	W	1	bc	59	75	51	8	2	–	1	4-6	4-6	3500	0	*
Manchester	13·3	+2	S'W	3	ir₀	55	85	51	6	5	6	–	7-8	9+	4000	0	*
Spurn Head	14·9	+12	WSW	4	c	56	85	50	7	7	3	–	4-6	9	2900	0	3
Catterick	13·9	+6	WSW	1	c	58	75	51	8	5	7	–	7-8	9	3000	0	*
Tynemouth	13·0	+2	W	3	c	57	75	50	6	5	–	–	9	9	2800	0	3
St. Abbs Head	10·1	0	W	4	c	57	75	47	8	5	7	–	7-8	9	4200	0	3
Leuchars	10·3	+4	W	2	c/v	56	85	50	8	5	7	–	7-8	9	3000	1	*
Renfrew (Abbots I.)	11·9	+4	WSW	3	c	58	75	51	8	8	7	2	7-8	9	2500	1	*
Eskdalemuir	12·5	+2	WSW	3	c	52	85	48	7	5	3	2	4-6	7-8	1100	1	*
Point of Ayre	14·1	+6	W'N	4	c	54	97	53	8	8	4	6	Tr	9	1600	1	3
Tiree	12·9	+10	NNW	3	bc	54	92	51	8	5	3	–	4-6	7-8	3500	0	3
Stornoway	11·4	+10	NW	3	c/pr	54	92	52	8	5	7	–	7-8	9+	2000	1	1
Dalwhinnie	11·0	+4	WNW	3	c	52	85	46	8	5	–	–	9+	9+	1500	1	*
Aberdeen †	10·2	+12	NW	2	c	55	92	53	7	7	2	–	9	10	2300	1	2
Wick	10·4	+14	NW	1	c	53	92	51	8	5	–	–	4-6	9+	2500	0	*
Sumburgh	10·0	+6	NNW	2	c	56	85	50	9	5	3	–	4-6	9+	5000	0	1
Blacksod Point	16·8	+8	W	3	c	56	85	51	8	8	–	–	9+	9+	1800	1	3
Malin Head	13·8	+10	W'S	3	c/pr	55	75	48	8	2	2	–	2-3	9+	1500	1	3
Aldergrove	14·8	+6	W'S	3	bc	54	85	50	8	8	3	–	4-6	7-8	2000	1	*
Birr Castle	16·7	+2	SSW	2	bc	55	92	53	8	4	–	–	4-6	4-6	2500	1	*
Valentia Obsy.	18·9	+4	NNW	3	c	56	85	51	9	2	–	3	7-8	9	2500	1	3
Roches Point	17·9	0	W'N	3	bc	55	85	50	8	5	–	5	1	2-3	2500	1	3

PAST 24 HOURS.

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 8th Hrs. (38)
London (Kew)	69	56	48	0·5	0·3	4·6
Croydon	67	54	52	Tr	0·6	5·8
S. Farnborough	69	54	49	2	Tr	6·2
Boscombe Down	67	53	49	2	0·1	7·2
Thorney Island	68	56	54	–	4	*
Lympne	67	53	–	Tr	0·4	9·6
Manston	68	53	50	–	0·2	7·6
Shoeburyness	72	57	53	Tr	0·1	6·5
Felixstowe	72	57	55	–	0·1	8·6
Gorleston	72	56	52	–	Tr	8·9
Mildenhall		54	49	–	–	10·1
Cranwell		51	48	Tr	–	8·6
Birmingham	66	51	47	0·2	0·1	5·4
Upper Heyford	67	54	52	Tr	–	*
Ross-on-Wye	65	55	51	0·2	–	5·7
Hartland Point	59	54	55	1	12	4·2
Bristol	66	54	53	Tr	0·1	7·2
Portland Bill	59	56	*	–	–	*
Plymouth	63	55	55	Tr	Tr	4·8
The Lizard	63	54	*	Tr	3	6·6
Scilly (St. Mary's)	64	54	*	Tr	3	3·6
Guernsey						
Pembroke	61	50	*	2	Tr	6·7
Holyhead (Valley)	63	54	51	–	0·3	*
Chester (Sealand)	69	54	47	–	–	11·3
Manchester	66	50	46	2	–	*
Spurn Head	67	53	*	Tr	–	8·6
Catterick	66	53	48	–	–	8·9
Tynemouth	66	54	51	Tr	–	*
St. Abbs Head	67	52	*	Tr	–	*
Leuchars	65	53	49	0·6	Tr	4·1
Renfrew (Abbots I.)	60	53	49	0·1	Tr	2·8
Eskdalemuir	59	47	45	3	0·1	2·5
Point of Ayre	70	52	*	Tr	1	5·9
Tiree	61	52	*	6	–	6·7
Stornoway	57	52	*	12	1	1·8
Dalwhinnie	58	49	46	2	1	1·3
Aberdeen †	63	51	48	0·1	0·6	2·9
Wick	62	57	49	–	0·2	*
Sumburgh	59	51	46	–	–	6·2
Blacksod Point	61	52	*	3	Tr	*
Malin Head	60	53	–	2	2	4·6
Aldergrove	65	51	49	2	1	1·8
Birr Castle	65	47	43	–	0·2	7·0
Valentia Obsy.	61	48	41	Tr	0·2	10·5
Roches Point	62	53	*	2	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 8th July $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 9th July $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	36	02864	07315	36	02854	00015	53	05764	00025	5-	02887	32227
115				53	10844	12186	52	81844	20127	--	67109	20169
203							5-	02947	20387			
206	8-	82857	24127	96	62847	14188	5-	02967	26167	5-	02867	26187
210	87	25765	16267	62	62846	12267	83	02864	22326	53	02867	24387
220				73	01844	27304						
230	87	25755	20388	86	02956	20287	53	01954	18265	8-	02956	24286
245	21	61754	22488	9-	28766	21396	53	02865	22216	8-	81867	22187
260	30	25855	21386	20	01854	20284	54	01873	23315	53	02774	23315
278	92	81856	22387	9-	81837	21387	86	02847	23387	96	81855	23387
279	36	02845	52586	37	02744	53586	5-	02745	21327	87	02845	23327
285										23	81745	22486
288	84	02955	22526	16	01963	54515	54	00862	18313	77	01853	18314
575	86	02844	57485	86	01844	59314	36	81745	26485	86	02845	26316
301	20	01953	23513	86	02964	22516	54	01864	24415	9-	02825	25427
321	83	02854	23426	86	10865	22325	54	02761	18314	53	05666	20216
299				80	01655	20215	80	01754	20214	5-	05657	22227
292				80	01964	57414	54	01764	18114	67	02844	20327
310	--	02635	24315									
614	26	81754	22386	26	05655	20326	54	05663	20224	27	05564	20225

III	13h. G.M.T. 8th July $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 9th July $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
333	86	02952	20417	53	02855	20516	53	02854	24387	86	25845	26285
334	--	02743	22314	--	02754	28314	-			--	25644	22285
340	26	02964	52415	2-	02964	55515	5-	02867	14227	53	02965	20327
136	26	25865	22485	56	02864	22326	46	01873	20383	56	02873	22316
336	23	25754	28486	80	25756	20486				13	01753	24414
350	27	02854	·2426	43	02865	18387	47	05663	20326	57	62765	19326
368	23	02943	23586	87	02953	20527	5-	02768	24488	80	22744	22365
370	23	25945	22486	23	02953	22587	57	02763	22427	5-	02817	20327
390	86	02765	24326	87	25756	20488	53	02774	22327	57	02774	20228
388	86	02964	23384				57	02861	26425	57	61843	22267
438				87	02745	22417	8-	61855	20585	50	02637	22427
430	20	01854	20414	53	02852	22428	02	61748	24418	57	02764	22268
400	87	01962	22527	87	02854	22327	52	61745	20268	87	02825	21227

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 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	Afternoon	Night
Kew	cifocy	cfocprocprfoc	
Croydon	bccpfo	cycpfo	cbcfoc
Greenwich	cy	pocpy	cbc
Camden Square	bc	c	*
Kensington	bc	c	*
Hampstead	bcor	o	o

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

Stations	Temperature Day Max °F	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	57	48	0·5	0·3	5·3	*	*
Croydon	67	54	52	Tr	0·6	5·8	*	*
Greenwich	71	55	43	0·5	–	5·2	43	74
Westminster	69	56	50		0·3		55	81
Regents Park	70	56	52	–	0·5		48	77
Camden Square	75	56	51	0·5	–	*	*	89
Kensington	70	56	49	0·3	Tr		82	82
Hampstead	68	53	48	0·1	–		*	82

SECRET

Page 1

BRITISH SECTION

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

Friday 10th July 1942

No. 29450

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	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)	16.9	-12	SW	3	c	65	65	51	8	8	6	1	7-8	9	2500
	Croydon	17.4	-10	WSW	3	c	65	65	53	8	2	6	-	4-6	7-8	3000
	S. Farnborough	16.9	-10	SW	3	c	67	55	49	9	8	-	-	7-8	7-8	3500
	Boscombe Down	17.3	-12	W'S	4	c	67	55	51	9	2	6	1	4-6	7-8	2500
	Thorney Island	17.8	-10	SW	2	c	64	65	53	9	2	6	5	4-6	7-8	2500
	Lympne	18.4	-14	SW	3	c	63	75	54	8	2	7	-	7-8	9+	2500
	Manston	17.4	-8	WSW	3	pr	63	65	53	7	9	7	-	7-8	9+	3000
2	Shoeburyness	17.0	-12	WSW	3	c	71	45	51	8	8	7	-	4-6	7-8	2500
	Felixstowe	16.5	-10	SW	3	c	67	55	53	7	8	7	-	7-8	9+	4000
	Gorleston	17.0	+2	SW'S	3	bc	65	55	50	8	2	7	-	4-6	4-6	2000
	Mildenhall	15.5	-10	W'S	4	c	69	45	48	8	8	6	8	4-6	7-8	2500
	Cranwell	15.2	0	W'S	4	pr	60	70	52	8	8	3	-	4-6	9+	3500
3	Birmingham	15.6	-4	WNW	3	bc	64	55	49	8	5	7	3	4-6	4-6	2500
	Upper Heyford	15.5	-14	WSW	4	c	67	55	49	8	2	-	6	4-6	7-8	3000
4	Ross-on-Wye	15.9	-8	W'N	3	c	66	55	48	9	7	-	6	7-8	9	4000
5	Hartland Point	17.5	-6	WSW	3	bc	59	85	55	9	3	4	3	2-3	4-6	1500
	Bristol	17.5	-8	W'S	3	bc	67	55	50	8	2	4	2	1	4-6	4000
	Portland Bill	18.1	-6	SW	4	c	59	92	57	8	2	4	-	4-6	7-8	4000
	Plymouth	18.8	-6	SW'W	3	c	60	85	56	8	8	7	-	7-8	10	2000
	The Lizard	18.6	-4	W'N	2	r_0r_0	60	85	56	8	8	1	-	9	10	2000
	Scilly (St. Mary's)	18.9	-2	SW'W	1	r_0r_0	56	97	54	7	6	2	-	7-8	10	800
	Guernsey															
6	Pembroke	17.9	-4	N'W	2	c	58	85	54	8	8	4	7	2-3	7-8	3000
7	Holyhead (Valley)	16.1	0	SW	3	bc	62	65	51	8	2	4	8	1	2-3	2500
	Chester (Sealand)	15.4	-2	NW	4	bc	63	65	52	8	2	4	-	2-3	2-3	3500
8	Manchester	15.3	-2	WNW	3	bc	64	65	51	8	2	-	-	4-6	4-6	4000
10	Spurn Head	14.4	-4	WNW	3	c	61	65	50	7	8	7	-	7-8	9+	1500
	Catterick	13.2	-6	W	5	c/pr	64	55	46	8	8	6	-	4-6	7-8	3500
	Tynemouth	13.2	-2	W	4	c	64	55	48	6	8	-	-	7-8	7-8	2800
11	St. Abbs Head	11.3	+2	NW	2	pr	54	92	52	8	6	4	-	7-8	9	3000
	Leuchars	11.2	+6	SE	2	c	63	65	53	9	9	6	-	7-8	7-8	4000
12	Renfrew (Abbots I.)	12.5	+6	NW'W	4	c	63	65	49	9	8	3	-	7-8	9	2500
	Eskdalemuir	12.4	0	W'S	3	c/pr	56	75	48	8	8	-	-	7-8	7-8	1800
	Point of Ayre	14.8	+4	WNW	4	c	66	75	56	8	2	3	-	4-6	7-8	2000
13A	Tiree	14.7	+4	NW'N	3	bc	57	75	50	8	3	3	-	2-3	2-3	3500
13B	Stornoway	12.8	+6	WNW	3	c	59	75	51	8	5	6	-	7-8	9+	2800
15	Dalwhinnie	12.1	+4	NW	2	PR	50	85	47	8	5	-	-	10	10	2500
	Aberdeen	11.0	+2	NNW	1	c/pr	50	85	48	8	9	-	-	9	9	2100
	Wick	10.8	+2	NNE	2	i_n	56	85	50	9	9	7	-	7-8	9	2000
16	Sumburgh	10.6	+4	W	4	bc	58	85	52	9	2	3	1	4-6	4-6	2500
17	Blacksod Point	10.8	+6	NNW	4	c	59	75	52	8	8	3	-	4-6	9+	2500
18	Malin Head	15.3	+10	NNW	3	c	57	75	50	8	8	9	-	4-6	7-8	1500
	Aldergrove	15.8	+2	NNW	2	pr	57	75	50	8	8	-	3	7-8	9+	2000
19	Birr Castle	16.6	0	WSW	1	c	58	85	54	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	29.0	-2	NW'N	4	bc	60	65		9	2	-	1	2-3	2-3	2500
	Roches Point	17.8	-6	SW	3	ic	58	85	54	8	8	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 9th 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. 9th (39)	Weather 13h.–18h. 9th (40)	Weather 18h. 9th to 1h. 10th (41)	Weather 1h.–7h. 10th (42)
London (Kew)	15.0	-10	SW	3	c	66	65	52	8	8	5	-	7-8	9+	2500	1	*	cpr_0c	pr_0bcc	c	cr_0r_0
Croydon	15.5	-10	SSW	3	c	66	65	55	8	8	7	-	7-8	9	5000	0	*	cbc	cbcc	cbcc	cmr_0r_0
S. Farnborough	15.3	-2	SSW	3	c	65	65	53	8	5	7	-	7-8	9+	2200	0	*	cy	cybcc	ccm_0	cir_0rrm_0
Boscombe Down	16.1	-6	SW'W	4	c	62	65	48	9	4	3	6	2-3	9	3500	0	*	cbc	bc	cir_0c	
Thorney Island	16.9	-6	WS	3	c	62	75	54	9	8	7	-	4-6	10	1500	0	*	$ccir_0c$	bcc	ccrr	ir_0crr
Lympne	17.2	-2	SW	3	c	61	85	55	8	2	7	-	Tr	9	4000	0	2	cr_0tc	cbcc	cf_0cir_0	$cmmrr_0$
Manston	15.6	-6	SSW	2	c	65	75	56	8	5	4	3	4-6	9	5100	0	*	c	cp_0tc	cir_0m_0	cm_0rR
Shoeburyness	15.7	-14	SSW	3	c	67	65	55	8	8	3	-	2-3	7-8	2500	0	*	cir_0cy	cyc	cir_0	$cr_0r_0m_0c$
Felixstowe	15.1	-4	S'W	2	c	69	55	54	7	8	-	3	7-8	9	4000	0	2	ir_0m_0cy	$cycpr_0cy$	$cycpr_0cpr_0$	$circr_0cm$
Gorleston	16.1	0	ENE	2	bc	64	65	53	7	8	4	-	2-3	4-6	1800	0	2	$bcytr_0$	cbc	$cbcm_0$	$cr_0r_0m_0$
Mildenhall	14.6	-2	NW	3	bc	69	45	47	8	2	6	1	2-3	4-6	2500	0	*	cbccy	cbcy	bccyc	$ccir_0cir_0m_0$
Cranwell	14.2	-4	WSW	3	c	64	65	52	7	8	6	3	4-6	7-8	3000	0	*	cpr_0	cbc	$bcbcm_0$	bcm_0
Birmingham	14.6	-2	NW	3	c	64	45	42	8	7	-	7	1	10	4000	1	*	$cbcr_0pr$	bcc		cpr_0m
Upper Heyford	14.4	-4	WSW	3	c	67	55	48	8	2	6	6	4-6	7-8	3000	0	*	cir_0bc	bcycy	cyc	$ccr_0r_0m_0$
Ross-on-Wye	15.1	-4	NW	1	c	65	55	49	9	2	-	7	2-3	10	4000	0	*	cbvy	cvy	cv	cc
Hartland Point	16.4	-8	NW	3	c	59	85	53	9	2	7	-	4-6	9	2000	1	4	ccrbc	bcc	cbc	bcc
Bristol	16.3	-4	W'S	3	c	63	65	49	8	4	7	7	Tr	9+	5700	0	*	bc	$cvpr_0c$	c,id_0	$cr_0r_0m_0$
Portland Bill	16.1	-4	SW	4	c	58	92	56	8	5	-	-	10	10	4000	1	4	c	c	crr	prr
Plymouth	17.2	-10	W	1	r_0r_0	58	92	56	6	5	-	-	10	10	1500	1	2	c	cr_0r_0	$cr_0r_0rrm_0$	$cr_0r_0m_0$
The Lizard	17.0	-10	—	0	rr	55	97	55	8	5	-	-	10	10	1500	1	3	cr_0r_0	crr	crr	rrc
Scilly (St. Mary's)	17.3	-10	—	0	r_0r_0	57	92	55	7	6	2	-	7-8	10	800	1	1	cr_0r_0	cr_0r_0	cr_0r_0	cpqc
Guernsey																					
Pembroke	16.6	-8	W	3	c	57	92	54	8	5	3	2	4-6	9	3000	0		c		cbcw	c
Holyhead (Valley)	15.3	-6	SSW	3	c	58	75	50	9	2	7	8	Tr	9	3000	0	2	cbcbbc	bbcc	cbcc	cir_0
Chester (Sealand)	15.3	-2	NW'N	4	c	61	65	48	8	8	6	6	1	9+	3500	0	*	bcc	bcc	cm_0	cm_0pr_0
Manchester	15.2	0	WNW	3	c	60	65	46	8	2	3	6	1	7-8	4000	0	*	c	bcy	$cbcm_0$	$bccm_0w$
Spurn Head	14.0	0	NE	3	c	62	65	52	7	7	7	1	4-6	7-8	2500	0	3	cprc	c	bc	cz_0
Catterick	13.4	-2	WNW	2	c	65	55	46	9	2	6	6	2-3	7-8	2500	0	*		cpr_0cy	c cbc	cbc
Tynemouth	15.6	0	NW	3	c/pr	56	75	49	6	8	-	-	7-8	7-8	2500	1	2		cp		bccbc
St. Abbs Head	12.2	+6	NNW	1	bc	59	85	55	8	2	4	-	4-6	4-6	2000	1	2	c	cprbr	bcc	c
Leuchars	12.3	+6	—	0	cjp	57	85	53	8	9	6	3	7-8	7-8	2500	1	*	$bcpr_0bc$	pr_0PRc	cpr_0	$rrr_0r_0m_0$
Renfrew (Abbots I.)	13.0	+2	NWW	3	bc	62	65	50	9	2	4	5	2-3	2-3	3000	0	*	c	cbcyb	bwbcw	c bc
Eskdalemuir	12.2	+2	WNW	4	bc	60	65	46	8	5	7	1	2-3	4-6	2500	1	*	prhPR	cpr_0bc	bcybc c	bcwbc
Point of Ayre	14.8	-2	WNW	3	c	61	75	54	8	2	7	-	Tr	9	3000	0	2	cbbcc	cbbcc		c
Tiree	14.6	-4	NW	2	bc	57	85	51	8	1	-	-	2-3	2-3	3500	0	3	cbc	bc	c	cbc
Stornoway	12.9	+2	E	1	c/pr	55	85	52	8	2	6	2	4-6	7-8	2500	1	1	c	cpr	cr_0r_0	c
Dalwhinnie	12.8	+2	NW	2	c	58	65	48	8	5	-	1	9	9+	2500	1	*	crp	cprc		cpr_0c
Aberdeen	12.3	+10	NWW	1	pr	57	85	53	6	9	-	-	9+	9+	1600	1	1	cpr_0ir	cpr		bcr_0r_0
Wick	11.9	+2	NW	3	cjp	56	85	52	9	8	7	2	7-8	9	2000	1	*	$cjpcir_0$	$cirpr_0$	cjpbc	$cir_0cr_0r_0$
Sumburgh	11.1	+2	NW	3	c	55	85	51	8	3	4	3	2-3	7-8	2500	0	1	cbc	bbc	c	c
Blacksod Point	17.9	+2	NW'N	3	c	57	75	50	9	5	-	-	9+	9+	2500	0	3	bc	c	bc	bc
Malin Head	15.2	-2	NW'N	3	bc	56	75	49	8	2	-	1	2-3	4-6	2500	0	2	pr	bc	r	pr
Aldergrove	15.7	-2	NNW	2	pr	56	85	51	8	8	6	-	4-6	9+	2000	1	*	$ccpr_0$	cpr_0	cpr_0cbc	bcbfgw
Birr Castle	15.7	-6	W	1	c	60	75	53	8	8	7	-	7-8	9	1500	1	*	pr	pr		o
Valentia Obsy.	18.5	-2	N'W	4	bc	59	75	52	9	2	6	-	4-6	4-6	2500	0	3	bc	bc	bc	pr
Roches Point	16.6	-12	NW'W	4	c	60	85	56	8	8	-	5	4-6	7-8	2500	1	3	bc	pr	bc	pr

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light variable winds, becoming northerly, later; overcast with intermittent thundery rain to-day; showers and bright periods later; local hill fog at first: cool.
5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Light or moderate North to Northwest winds; showers and bright intervals: cool.
9 N. Midlands; 10 N.E. England	Light Northerly or variable winds; bright periods at first; cloudy, with occasional rain later: cool.
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 North to Northwest winds; bright periods but rather frequent showers; local thunderstorms this afternoon and evening: cool.
16 Orkneys and Shetlands	As 11-15
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 5-8

GENERAL INFERENCE

A complex low pressure system covers the English Channel and North France. A depression in Mid-Channel is moving northeast. Pressure is high to west and southwest of Ireland.

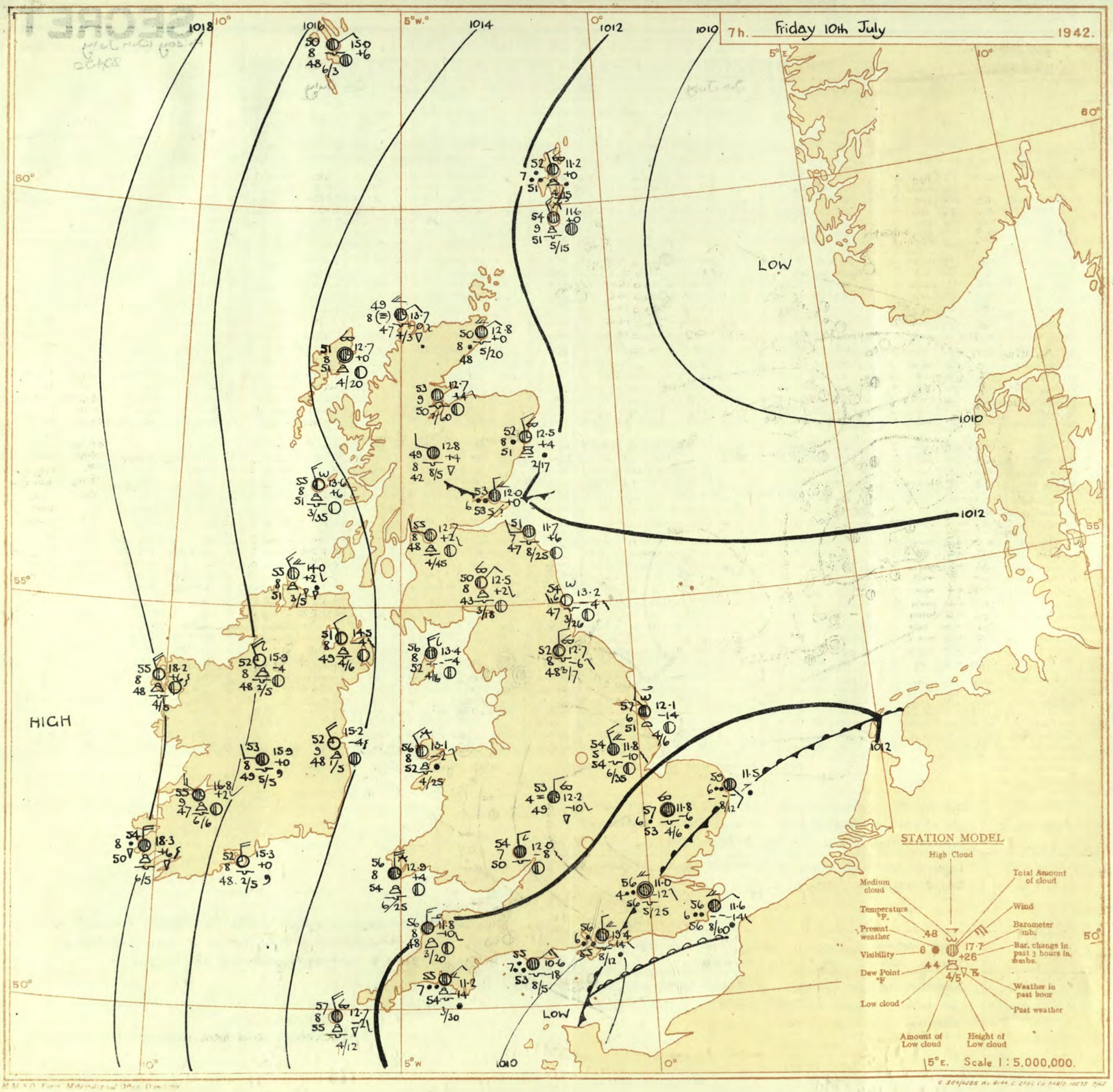
FURTHER OUTLOOK

Bright intervals and local showers.

Forecasts issued at 1030.

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2


7h. Friday 10th July 1942.
LOW
HIGH
LOW
1018
1016
1014
1012
1010
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
Scale 1 : 5,000,000.

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.

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.

BRITISH SECTION

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

Friday 10th July 1942

No. 29450

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F (6)	Humid. % (7)	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	*	*	*	*	*		*	*	*	*	*	*	*	*	*
	Croydon	290	13.8	-14	SSW	1	c	57	92	55	7	-	2	-	0	10	-
	S. Farnborough	226	13.2	-18	W'N	1	zo	57	85	54	6	-	7	-	0	10	-
	Boscombe Down	417	14.0	-20	NNW	3	c	55	92	54	7	5	7	-	9	10	5400
	Thorney Island	10	13.3	-20	NNW	1	rr	58	92	56	6	5	1	-	2-3	10	1500
	Lympne	283	15.2	-14	-	0	ir0	56	97	54	7	5	7	-	7+	10	3500
	Manston	154	13.6	-16	SE'S	1	zo	58	92	55	6	5	2	-	4-6	10	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	13.7	-12	W'S	1	pr	61	85	56	7	5	-	-	10	10	7100
	Gorleston	5	14.7	-8	-	0	zo	59	85	53	6	-	4	-	0	4-6	-
	Mildenhall	15	13.8	-10	-	0	c	56	85	50	7	5	7	-	2-3	9+	5000
	Cranwell	203	13.8	-8	NNW	2	zo	54	85	48	6	-	7	-	0	9	-
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	13.6	-10	NW	1	c	54	85	50	7	-	1	-	0	9+	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	14.1	-14	NNW	2	bc	56	85	52	8	5	4	-	2-3	4-6	2500
	Bristol	209	15.0	-10	SSW	1	id0	54	97	54	7	5	-	-	10	10	3500
	Portland Bill	32	13.5	-22	SW	3	rr	57	92	55	7	5	-	-	10	10	2500
	Plymouth	82	14.4	-16	-	0	rr	55	97	55	6	-	2	-	10	10	3000
	The Lizard	240	14.8	-12	-	0	r0r0	54	97	54	6	5	-	-	10	10	800
	Scilly (St. Mary's)	163	14.3	-14	N	2	r0r0	55	97	54	7	8	2	-	7-8	10	1500
	Guernsey	175															
6	Pembroke	142	14.5	-14	NW'W	2	bc	55	97	54	8	5	-	-	4-6	4-6	4000
7	Holyhead (Valley)	32	14.4	-8	-	0	c	52	92	51	8	5	3	-	1	10	3000
	Chester (Sealand)	16	14.4	-12	-	0	c	51	92	50	6	5	7	-	2-3	9+	1200
8	Manchester	235	14.5	-10	-	0	c	50	97	49	8	5	-	2	1	7-8	4000
10	Spurn Head	29	14.0	-6	W'N	3	bc	57	85	50	7	4	-	-	4-6	4-6	4000
	Catterick	175	13.6	-10	WNW	2	c	55	75	47	7	5	1	-	Tr	9	4000
	Tynemouth	108	13.8	-2	NW	4	bc	55	85	49	6	8	-	-	4-6	4-6	2500
11	St. Abbs Head	280	12.8	0	NW	2	c	53	92	51	7	5	-	-	9+	9+	2500
	Leuchars	36	12.8	-4	SW	1	pr	55	97	54	6	8	-	-	9+	9+	2500
12	Renfrew (Abbots I.)	19	13.5	-4	WSW	2	bc	49	85	46	8	4	-	2	1	2-3	3500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	14.6	-4	N'W	3	c	55	92	52	8	8	4	+	7-8	9+	1800
13A	Tiree	22	14.9	0	WNW	1	c	52	85	48	8	5	-	-	7-8	7-8	3500
13B	Stornoway	80	13.6	0	-	0	c	49	92	47	7	5	5	-	7-8	9+	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	13.1	-2	-	0	pr	49	97	48	7	5	-	-	9+	9+	3500
	Wick	114	12.8	-4	NNE	1	c	51	92	49	8	5	3	-	9	9+	3000
16	Sumburgh	19	11.5	-2	NW	4	c	53	97	51	8	5	7	-	7-8	9+	2500
17	Blacksod Point	18	17.9	-2	NW'W	3	bc	52	75	44	8	4	-	-	4-6	4-6	2500
18	Malin Head	84	15.0	-2	W	2	ir	51	85	46	8	2	2	-	4-6	7-8	1500
	Aldergrove	268	15.9	-2	-	0	bc	49	92	47	8	5	3	-	4-6	4-6	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	18.2	-2	N'W	4	c	55	75	47	9	5	-	-	9+	9+	4000
	Roches Point	22	16.0	-2	NNW	4	bc	54	85	49	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 10th 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)	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 9th. Hrs. (38)
London (Kew)	10.3	-18	N	2	r0r0	55	92	52	5	6	2	-	7-8	10	1500	1	*	72	54	54	Tr	3	5.5
Croydon	11.0	-12	-	0	r0r0	56	97	56	4	5	2	-	7-8	10	2500	1	*	70	55	54	-	2	5.4
S. Farnborough	10.5	-14	N'E	1	rr	55	92	53	6	5	2	-	7-8	10	1000	1	*	70	55	54	-	4	5.6
Boscombe Down	11.2	-12	N	3	r0r0	56	97	55	6	5	2	-	7-8	10	2500	1	*	69	52	51	Tr	4	4.6
Thorney Island	19.4	-14	N	1	rr	56	97	55	6	5	2	-	10	10	1200	1	*	68	56	55	Tr	3	*
Lympne	11.6	-14	ENE	1	r0r0	56	97	56	6	6	2	-	10	10	6000	1	§2	66	54	·	0.1	5	2.9
Manston	10.7	-12		0	r0r0	57	97	57	6	6	2	-	2-3	10	1200	1	*	69	56	54	Tr	4	0.3
Shoeburyness	11.2	-10	S	1	rr	60	92	57	5	5	2	-	7-8	10	4500	1	*	73	58	54	Tr	1	3.9
Felixstowe	10.9	-12	SE	2	r0r0	61	85	58	6	5	2	-	1	10	5700	1	1	73	60	55	Tr	0.1	4.7
Gorleston	11.8	-	S'E	3	r0r0	59	92	57	6	6	-	-	10	10	1200			69			Tr		
Mildenhall	11.8	-6	-	0	r0	57	85	53	6	5	7	-	4-6	10	4000	0	*	71	53	49	✓	Tr	9.6
Cranwell	11.3	-10	N'W	3	z0	54	85	50	5	5	2	-	9	10	3500	0	*		52	44	Tr	-	4.6
Birmingham	12.2	-10	N	2	m	53	85	48	4	-	7	8	0	9+	-	1	*	66	52	49	0.3	0.1	6.1
Upper Heyford	11.5	-10	NE'N	1	r0r0	53	92	51	5	5	7	-	2-3	10	2000	1	*	71	52		Tr	2	*
Ross-on-Wye	12.0	-8	NNW	2	c	54	85	50	7	5	1	-	2-3	10	3000	0	*	70	52	49	-	-	7.7
Hartland Point	11.8	-10	N	3	c	56	55	44	8	2	4	8	2-3	9	2000	1	3	61	55	53	0.2	-	7.0
Bristol	12.2	-8	NNE	3	r0r0	53	92	50	6	6	7	-	1	10	4000	1	*	69	52	53	6	1	8.0
Portland Bill	10.6	-18	NE	3	rr	55	92	53	7	5	-	-	0	10	2500	1	4	59	53	*	-	10	*
Plymouth	11.2	-14	NNE	1	r0r0	55	85	51	7	8	2	-	2-3	9	3000	1	2	63	53	53	0.4	11	1.6
The Lizard	11.4	-10	N	2	c	54	97	54	8	8	6	-	7-8	7-8	1400	1	3	61	54	*	4	8	0.5
Scilly (St. Mary's)	12.7	-2	N'W	4	c	57	92	55	8	8	7	3	4-6	7-8	1200	1	3	60	54	*	5	5	0.0
Guernsey																							
Pembroke	12.9	-4	N	4	c	56	92	54	8	8	6	-	9	9	2500	0	2	60	47	*	-	-	7.3
Holyhead (Valley)	13.1	-2	NNW	2	bc	56	85	50	8	8	6	8	4-6	7-8	2500	1	1	63	51	46	-	1	*
Chester (Sealand)	12.7	-4	-	0	c/pr	54	92	51	6	2	2	-	7-8	10	2000	0	*	64	47	39	-	Tr	10.2
Manchester	12.3	-10	N'W	1	m	53	92	51	4	5	3	2	4-6	9+	7200	0	*	65	47	41	0.1	-	*
Spurn Head	12.1	-14	NW'W	2	z0	57	85	51	6	1	3	1	4-6	4-6	4000	0	2	65	54	*	2	-	8.1
Catterick	12.7	-6	N	1	bc	52	85	48	8	5	7	1	2-3	4-6	5700	0	*	67	50	45	Tr	-	6.2
Tynemouth	13.2	-4	W	3	bc	54	75	47	6	5	3	-	2-3	2-3	2600	1	2	67	50		3	-	*
St. Abbs Head	11.7	-6	W	2	c	51	85	47	7	5	-	-	10	10	2500	0	2	67	51	*	3	-	*
Leuchars	12.0	0	N	1	r0r0	53	97	53	6	6	2	-	7-8	10	800	1	*	67	52	50	10	10	5.2
Renfrew (Abbots I.)	12.7	-2	W'N	2	bc	55	75	48	8	8		-	4-6	7-8	4500	1	*	64	45	41	-	-	8.2
Eskdalemuir	12.5	-2	NE'N	2	bc	50	75	43	8	8		4	2-3	4-6	1800	1	*	61	38	37	+	-	5.5
Point of Ayre	13.4	-4	N'W	3	c	56	85	53	8	6	4	-	4-6	9	1600	0	2	66	53	*	-	-	8.5
Tiree	13.6	-6	NNW	3	bc	55	85	51	8	8	3	-	2-3	4-6	3500	0	3	60	51	*	-	-	8.1
Stornoway	12.7	0	-	0	c	51	92	51	8	2	7	-	4-6	9	2000	1	0	60	48	*	Tr	Tr	3.9
Dalwhinnie	12.8	-2	NNW	2	o	49	75	42	8	5	-	-	10	10	2500	1	*	58	45	42	7	Tr	2.3
Aberdeen †	12.5	-2	NNW	2	ir0	52	97	51	8	9	7	-		9+	1700	1	1	62	49	41	8	0.5	2.2
Wick	12.8	0	NNE	1	r0r0	50	92	43	8	5	2	-	7-8	10	2000	1	*	60	49	46	+	0.6	*
Sumburgh	11.6	0	NNW	3	c	54	85	51	5	8	6	3	7-8	9	1500	0	2	59	51	49	-	-	2.0
Blacksod Point	18.2	+6	NNW	4	bc	55	75		8	8	-	-	4-6	4-6	2500	0	3	61	50	*	Tr	-	*
Malin Head	14.0	-2	NW	3	c/pr	55	85		8	2	2	-	2-3	7-8	2500	1	3	59	51		0.2	1	7.1
Aldergrove	14.5	-4	NW'N	1	bc	51	92	43	8	8	-	-	4-6	4-6	3000	1	*	62	42	37	0.5	Tr	6.1
Birr Castle	15.9	0	W	2	c	53	85		8	5	-	-	7-8	7-8	2500	1	*	65	47	44	1	-	4.3
Valentia Obsy.	18.3	+6	N	4	pr	54	85		8	8	-	-	9	9	2500	1	8	62	53	49	-	0.2	11.7
Roches Point	15.3	0	N	4	b	52	85		8	5	-	-	1	1	2500	1	*	62	52	*	0.1	0.1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 9th July $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 10th July $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
100	8-	82636	00086	8-	10857	28287	5-	03858	29228	83	02864	01325
115				52	09834	32127	52	09835	04128	52	09834	04287
203				85	02955	22326	5-	22948	08168	52	02936	28228
206				93	02966	28386	8-	25967	00087	4-	02977	00028
216	86	25954	26365	86	81955	30127	6-	64637	32187	83	02844	32127
220	70	01954	27304	73	01953	27315				83	02954	28315
230	24	01953	24324	8-	01962	24313	53	02955	24215	84	25964	24185
245	9-	81746	16386	9-	81967	28187	5-	02867	22187	02	64758	04268
260	3-	82756	23316				54	01764	20114	54	02645	20218
278	86	02955	27316	26	01963	28414	53	01864	25314	83	02865	14354
279	86	25855	21487	86	01964	22325	40	01853	28114	23	02962	28125
285	27	01854	24514							53	02854	28426
288	30	10854	57384	20	01954	28325	57	02862	16227	07	01790	24213
578	86	10845	26386	86	02855	28386	50	01844	28314	84	00852	28312
301	20	01944	24524	26	02941	25517	57	02852	28327	53	05653	30227
321	84	02764	25484	20	02861	24326	04	05690	00024	07	05690	27228
299				84	01764	10114	5-	01754	18214	51	02754	26215
292	23	02955	25425	86	02954	22317	51	01853	24124	53	02966	28127
310	-	01644	20214									
614	27	25754	22285	53	05664	26225	57	05651	26126	53	05663	30126
333	80	01964	32214	53	02963	20228	57	02862	00027	57	02865	32226
334										--	02646	28117
340	26	02965	24336	26	02965	32227	00	01990	00014	00	05690	00027
136	2-	02857	25487	26	02861	24316	5-	02787	30127	57	02784	02228
336	28	01753	28415	12	81762	24314				13	01762	20315
350	27	02865	20326	26	02854	22325	07	05690	02223	52	62554	30268
368	20	01952	24414	27	02951	24428	57	02752	00028	87	02763	00058
379	20	02955	22425	80	02855	22216	57	01774	02325	52	62654	01368
390	86	81660	24386	26	01862	21284	57	05673	20127	52	62554	26268
[illegible]	86	02865	23326				07	61790	28128	62	64654	02168
438	87	02754	22317	80	02757	24428	62	64734	00068	97	62624	00088
430	83	02855	20323	87	61865	20328	22	61888	18268	02	62668	02168
409	84	02938	25367	67	62716	22268	5-	61658	28158	57	02944	32227

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 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
Kew	cpgc	pgbcc	crgr0
Croydon	cbc	cbcc	enrgr0
Greenwich	cy	cbccr0y	cdrm
Camden Square	c	bc	*
Kensington	cbc	bc	*
Hampstead	bc	c	

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0.1, Time 4-7h 10th; Min. <0.1, Time 9-24h 9th.

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	72	54	54	Tr	3	5.5	*	*
Croydon	70	55	54	-	2	5.4	*	*
Greenwich	75	55	52	Tr	5	5.0	41	94
Westminster	71	56	55		5		55	97
Regents Park	73	55	54	-	7		58	94
Camden Square	73	55	55	-	3	*	*	99
Kensington	73	55	54	-	4		50	95
Hampstead	71	52	50	-	4		*	99

Page 1 **BRITISH SECTION**

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

SECRET

Saturday 11th July 1942

No. 29451

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)	01·5	-16	NNE	3	rr	57	92	54	6	6	2	-	4-6	10	800
	Croydon	08·0	-14	NNW	3	roro	57	97	56	5	6	2	-	9	10	600
	S. Farnborough	07·6	-16	N	3	rr	56	92	54	5	5	2	-	9	10	600
	Boscombe Down	09·2	-10	N	4	roro	55	92	53	6	5	2	-	10	10	1800
	Thorney Island	07·7	-4	N'E	3	rr	58	92	56	6	5	2	-	7·8	10	700
	Lympne	07·6	-22	NNE	2	roro	58	92	55	8	6	2	-	7·8	10	1000
	Manston	07·2	-18	ENE	2	roro	57	97	56	6	6	2	-	9	10	800
2	Shoeburyness	08·3	-20	N	2	rr	58	92	56	7	5	2	-	7·8	10	2000
	Felixstowe	07·8	-10	N'W	2	roro	57	92	55	6	5	2	-	2-3	10	2700
	Gorleston	09·4	-18	ENE	1	roro	57	85	53	8	6	-	-	10	10	1800
	Mildenhall	08·8	-14	NE	2	roro	58	92	55	7	5	2	-	7·8	10	1500
	Cranwell	09·1	-14	E	2	c/r	59	75	53	7	5	7	-	4-6	10	2000
3	Birmingham	09·2	-14	N	3	zo	61	55	45	6	5	7	-	7·8	10	2500
	Upper Heyford	09·0	-6	N'E	2	roro	54	85	50	6	5	7	-	7·8	10	2800
4	Ross-on-Wye	09·7	-14	NNW	4	c	61	65	51	8	8	7	-	7·8	9+	3500
5	Hartland Point	11·5	+2	N	4	c	58	85	51	8	2	4	-	2-3	7·8	2000
	Bristol	09·9	-14	NNE	2	c	60	65	50	7	2	7	-	1	10	2500
	Portland Bill	09·1	-4	N	3	rr	56	92	54	7	5	-	-	10	10	2500
	Plymouth	10·6	-4	NNE	3	c	63	65	51	8	8	6	-	4-6	9	2500
	The Lizard	11·7	+4	NNW	5	c	62	85	58	8	8	6	-	7·8	7·8	1500
	Scilly (St. Mary's)	14·0	+12	NNW	5	c	60	75	51	8	8	6	-	4-6	7·8	1200
	Guernsey															
6	Pembroke	12·3	0	N	5	bc	59	75	52	8	2	-	-	2-3	2-3	3000
7	Holyhead (Valley)	12·3	-2	NNW	3	bc	59	65	49	9	2	6	-	2-3	2-3	3000
	Chester (Sealand)	11·3	-6	NW'W	5	c	60	65	49	8	1	3	8	2-3	7·8	3000
8	Manchester	10·0	-12	NW'W	3	c	62	55	48	7	2	3	-	7·8	9+	2000
10	Spurn Head	10·7	-4	E'N	2	c	59	75	50	6	7	7	-	9	9+	2500
	Catterick	09·8	-12	NNW	1	iro	62	75	56	8	5	-	-	10	10	3000
	Tynemouth	11·5	-8	NE	3	c	56	85	52	7	8	-	-	7·8	7·8	2800
11	St. Abbs Head	11·0	-4	NW	2	c	55	85	49	7	5	1	-	9+	9+	1100
	Leuchars	11·3	-2	-	0	rr	53	92	51	7	8	7	-	4-6	10	2000
12	Renfrew (Abbots I.)	10·5	-10	NW'N	3	pr	65	55	46	9	5	7	-	7·8	7·8	3000
	Eskdalemuir	10·8	-10	NW	3	c	59	65	45	8	8	-	-	7·8	7·8	2500
	Point of Ayre	12·1	-8	NW'N	4	b	63	75	54	8	1	4	-	Tr	1	2500
13A	Tiree	13·5	-4	NNW	3	bc	58	75	50	8	7	3	-	4-6	4-6	3500
13B	Stornoway	12·9	+2	NNE	2	c/r	53	85	48	9	5	7	-	4-6	7·8	2500
15	Dalwhinnie	12·1	-4	-	0	c	53	75	47	8	5	-	-	9+	9+	2500
	Aberdeen	11·8	-4	ENE	2	iro	54	92	52	6	9	7	-	4-6	10	1600
	Wick	12·8	0	SE	2	c/r	54	75	47	8	8	8	9	4-6	7·8	2000
16	Sumburgh	11·9	0	NW	3	c	56	75	50	9	8	-	3	4-6	7·8	2500
17	Blacksod Point	18·5	+2	NW'N	4	c	58	65	46	8	8	-	-	7·8	7·8	4000
18	Malin Head	14·0	-2	N'W	4	pr	55	75	48	8	9	2	-	4-6	9	1500
	Aldergrove	13·3	-6	NW	3	c	59	65	46	8	8	-	-	7·8	7·8	2000
19	Birr Castle	15·4	-2	WNW	4	c	61	65	49	8	8	-	-	7·8	7·8	1500
20	Valentia Obsy.	19·4	+6	N'W	6	cjp	59	65	47	9	2	-	-	9	9	2500
	Roches Point	15·7	-2	N	5	c	61	75	53	9	8	-	-	7·8	7·8	1500

OBSERVATIONS at 18h. G.M.T. 10th 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. 10th (39)	Weather 13h.–18h. 10th (40)	Weather 18h. 10th to 1h. 11th (41)	Weather 1h.–7h. 11th (42)
London (Kew)	07·1	+2	N'W	3	iro	58	85	52	6	6	2	-	4-6	10	800	1	*	rmrormo	prorocro	crormo	cromoc
Croydon	07·0	0	NNW	4	roro	56	92	54	6	6	2	1	7·8	10	1200	1	*	orfrf	cmororo	crorombc	bcc
S. Farnborough	07·3	+8	NNW	3	roro	57	85	54	6	5	-	-	10	10	1000	1	*	crrmo	cirmocrorom	crromb	bbccv
Boscombe Down	09·1	+2	NNW	3	roro	55	92	52	6	5	2	-	7·8	10	2500	1	*	croromo	ciroc	cpRb	bc
Thorney Island	07·6	+6	NNW	3	iro	57	92	54	6	8	7	-	4-6	10	4000	1	*	crr	rocro	cirobmo	bccbc
Lympne	05·7	-6	NNE	2	roro	55	97	54	5	6	-	-	10	10	200	1	§	cmororo	croro	cmorrro	cbcmoiro
Manston	04·5	-10	NNE	3	rr	55	92	55	6	6	2	-	9+	10	900	1	*	crorormmo	crorormo	ctrrorormo	crorocmo
Shoeburyness	06·4	-2	N	3	rr	55	97	54	5	5	2	-	9	10	1500	1	*	crororr	crrmo	cmororo	cmo
Felixstowe	05·6	-6	NNW	3	roro	55	97	54	6	5	2	-	7·8	10	1500	1	2	prorormroro	rrirororoc	crororomo	cmoirocmo
Gorleston	07·3	-4	NE'N	5	roro	56	92	54	6	6	-	-	10	10	1800	1	3	croro	ororo	ororo	orocro
Mildenhall	07·2	-2	NW'N	2	roro	55	92	53	7	5	2	-	4-6	10	1500	1	*	cmorrcro	croro	crocmocmo	cmcirocmo
Cranwell	07·7	-4	NW'W	3	roro	57	92	54	6	5	2	-	7·8	10	1500	1	*	cmororoc	rrmo	rriro	sbccmo
Birmingham	08·7	+4	NW	3	c	61	55	46	8	8	7	-	7·8	9+	2500	1	*	czo	c	cb	bcprc
Upper Heyford	08·1	+2	NNW	2	c/r	55	92	52	6	5	7	-	4-6	10	3500	1	*	irororomo	rorororomo	bmo	bmo cpr
Ross-on-Wye	09·2	0	NW	4	c	63	55	46	9	8	-	-	7·8	7·8	3500	0	*	c	ccy	bcvb	bcc
Hartland Point	12·6	+8	NW	4	bc	57	75	49	8	2	4	-	1	2-3	2000	0	4	cbcc	cbc	bccpo	c
Bristol	09·5	0	NW'N	3	pr	57	85	51	7	8	-	-	9	9	2500	1	*	crorom₀	ccpro	cproro	cprobc
Portland Bill	09·8	+4	NW	3	c/r	58	92	56	7	5	-	-	9	9	2500	1	3	prr	orr	cc	cc
Plymouth	12·3	+12	NNW	5	bc	61	65	47	8	1	-	-	2-3	2-3	2500	0	+	c	cprobc	bccpro	cproc
The Lizard	14·2	+20	NW	5	bc	59	65	48	8	2	6	-	4-6	4-6	2000	1	4	c	cbc	bcprc	cprc
Scilly (St. Mary's)	15·6	+8	NW	5	bc	60	75	51	8	8	4	-	4-6	4-6	1300	1	4	cpc	cbc	cpobc	bccpo
Guernsey																					
Pembroke	13·8	+6	NW'W	5	c	56	85	50	8	8	6	-	2-3	7·8	3000	0	3	cbc	bcc	c	cbc
Holyhead (Valley)	11·8	-2	NW	4	c	57	75	48	9	8	6	-	4-6	7·8	5000	0	2	bc	bcbbc	cprc	cbcc
Chester (Sealand)	10·2	-2	NW'W	5	bc	59	65	48	8	2	-	-	4-6	4-6	4000	0	*	cmoproc	bc	cpro	cPRor
Manchester	09·1	0	NW'W	4	bc	58	55	43	8	2	-	-	2-3	2-3	2000	0	*	cmwzo	czobcy	bcybmo	bccmo
Spurn Head	08·5	-4	NNE	3	c	57	85	51	7	5	7	-	7·8	9+	2500	0	2	cmo	c	c	cpr
Catterick	09·1	+4	N'E	3	ct	55	75	48	6	9	-	-	9+	9+	2000	0	*	bcyciro	irojd	crorom₀	crorocmciro
Tynemouth	10·3	-2	N'E	3	c	54	92	52	7	8	-	-	9+	9+	2500	1	3	bcc	ctc	ctlororo	oiroc
St. Abbs Head	10·2	0	N	3	c	55	85	51	7	5	7	-	7·8	9	2500	0	2	cpridc	c	cdiromo	cdorobc
Leuchars	10·7	-2	-	0	c	53	92	51	7	8	7	-	7·8	10	2500	1	*	rrmoprorr	roroc	crorome	cbcb
Renfrew (Abbots I.)	11·2	+2	NW	1	pr	56	85	52	6	3	2	-	7·8	10	1500	1	*	bcycproy	cprpro	cprobc	cbcb
Eskdalemuir	09·4	+2	NNE	3	c	55	75	47	8	8	-	1	7·8	7·8	2600	1	*	bcc	cbcc	cprc	cbc
Point of Ayre	11·1	-4	NNW	6	bc	60	75	52	8	2	4	-	2-3	2-3	2500	0	5	cbcb	bbc	bc	bcc
Tiree	13·2	0	NW	3	bc	55	85	48	8	8	3	-	2-3	4-6	3500	0	4	bc	cbc	bc	bbc
Stornoway	13·3	+4	NNE	4	bc	55	85	49	9	2	4	-	2-3	2-3	3500	2	2	croro	cbc	bc	bcc
Dalwhinnie	12·2	+2	N	1	pr	51	85	47	8	5	-	-	9+	9+	1500	1	*	oproc	coprc		cpr
Aberdeen	11·6	0	NE'E	2	c/r	53	85	50	8	8	7	-	4-6	9+	1800	1	1	ciro	ciro	ciro	bbcw
Wick	12·8	+4	-	0	iro	53	85	49	9	7	-	-	9	9	2000	0	*	croroc	cciro	bc	cbc
Sumburgh	11·8	0	NE	2	bc	55	85	50	9	8	6	-	4-6	4-6	2000	0	1	obc	bc	bccy	·
Blacksod Point	18·5	0	NW'N	4	bc	56	75	49	8	8	3	-	4-6	7-8	4000	0		bc	bc	bc	r
Malin Head	13·7	-2	N	4	c	55	65	44	8	9	-	-	9	9	2500	1		pr	pr	pr	bc
Aldergrove	13·0	-4	NNW	4	c/pr	56	65	46	8	8	7	-	7·8	9	2000	1	*	cprobc	bccproc	cbcb	bbwbcc
Birr Castle	15·3	+4	WNW	3	c	60	55	45	8	4	-	-	7·8	7-8	2500	1	*	pr		·	c
Valentia Obsy.	20·0	+4	NW'N	5	PR	57	85	53	8	8	-	-	9+	9+	4000	0	5	pr.	pr.	pr	r
Roches Point	16·1	+2	N	6	cjp	60	75	53	9	8	-	-	4-6	4-6	2500	1		bc	pr	o	o

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Moderate or light Northwest wind; cloudy with occasional showers and local thunder at first; fair later: cool.
4 W. Midlands	As 6-9
5 S.W. England; 6 South Wales	Light Northwest wind backing West; mainly fair; occasional slight rain later in extreme West: rather cool, becoming warmer.
7 North Wales; 8 N.W. England; 9 N. Midlands	Light Northwest wind backing West; occasional slight, local showers at first; fair later; rather cool, becoming warmer.
10 N.E. England	As 1-3
11 S.E. Scotland; 12 S.W. Scotland & Isle of Man	As 6-9
13A W. Scotland; 13B N.W. Scotland	Light Northwest wind backing West or Southwest; slight local showers at first; cloud increasing with rain or drizzle later; rather cool at first, average temperature later.
14 Mid Scotland; 15 N.E. Scotland; 16 Orkneys and Shetlands	Light North wind backing West; occasional showers; rather mild. (continuation of 14 & 15.)
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Light Northwest wind, backing Southwest; cloudy; occasional slight rain in West at first; more general slight rain or drizzle later: cool at first, average temperature later.

GENERAL INFERENCE

A depression to eastward of the British Isles is receding and a ridge of high pressure off West Ireland is spreading east and will be followed by a trough of low pressure. Weather will be cloudy with local rain and thunder at first in East England but over most of the country weather will be fair. Occasional rain now in West Ireland will be followed by more general but slight rain in Western districts later.

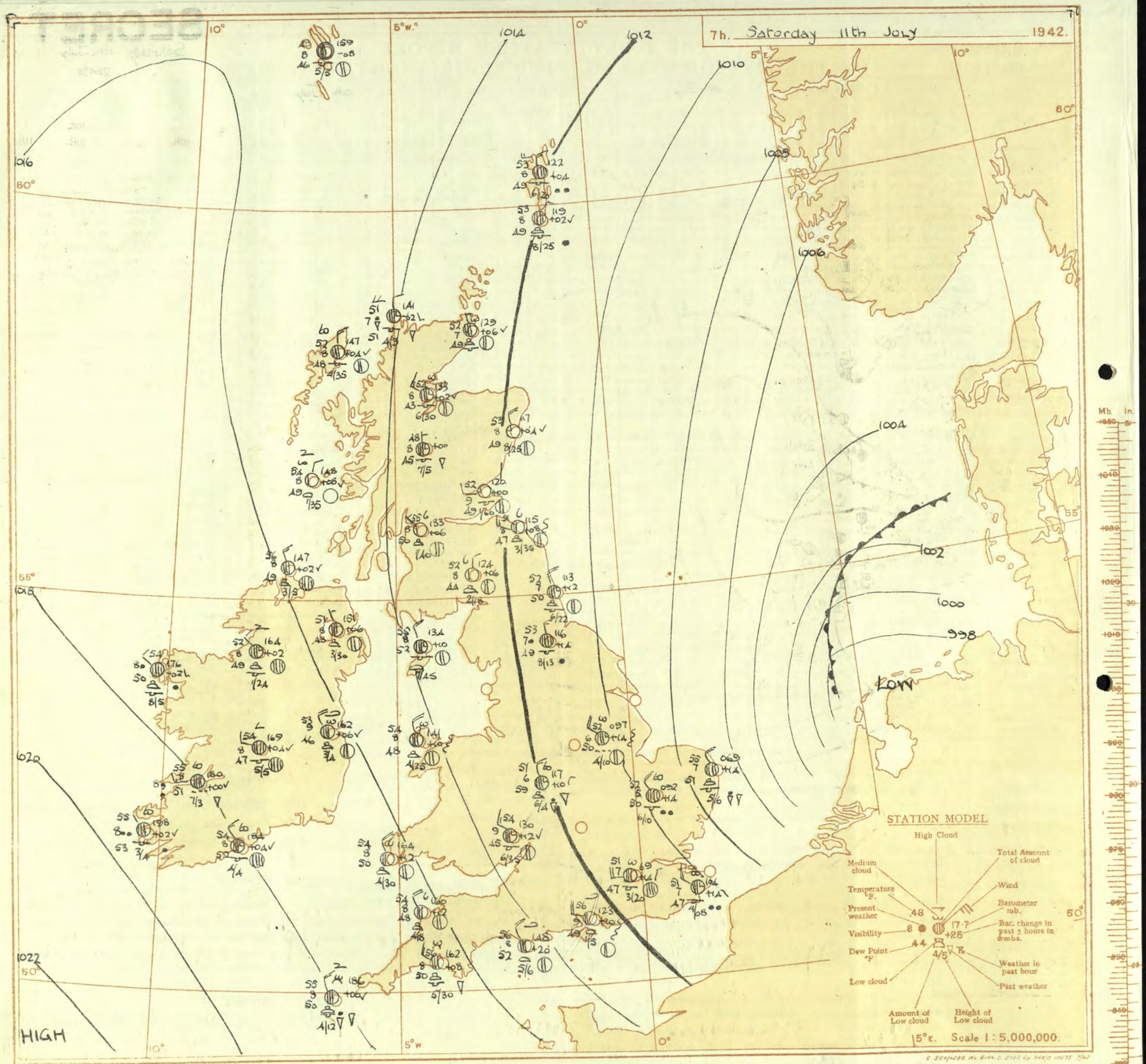
FURTHER OUTLOOK

Mainly cloudy; occasional rain especially in the Northwest.

Forecasts issued at 1030.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday 11th July 1942.



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).

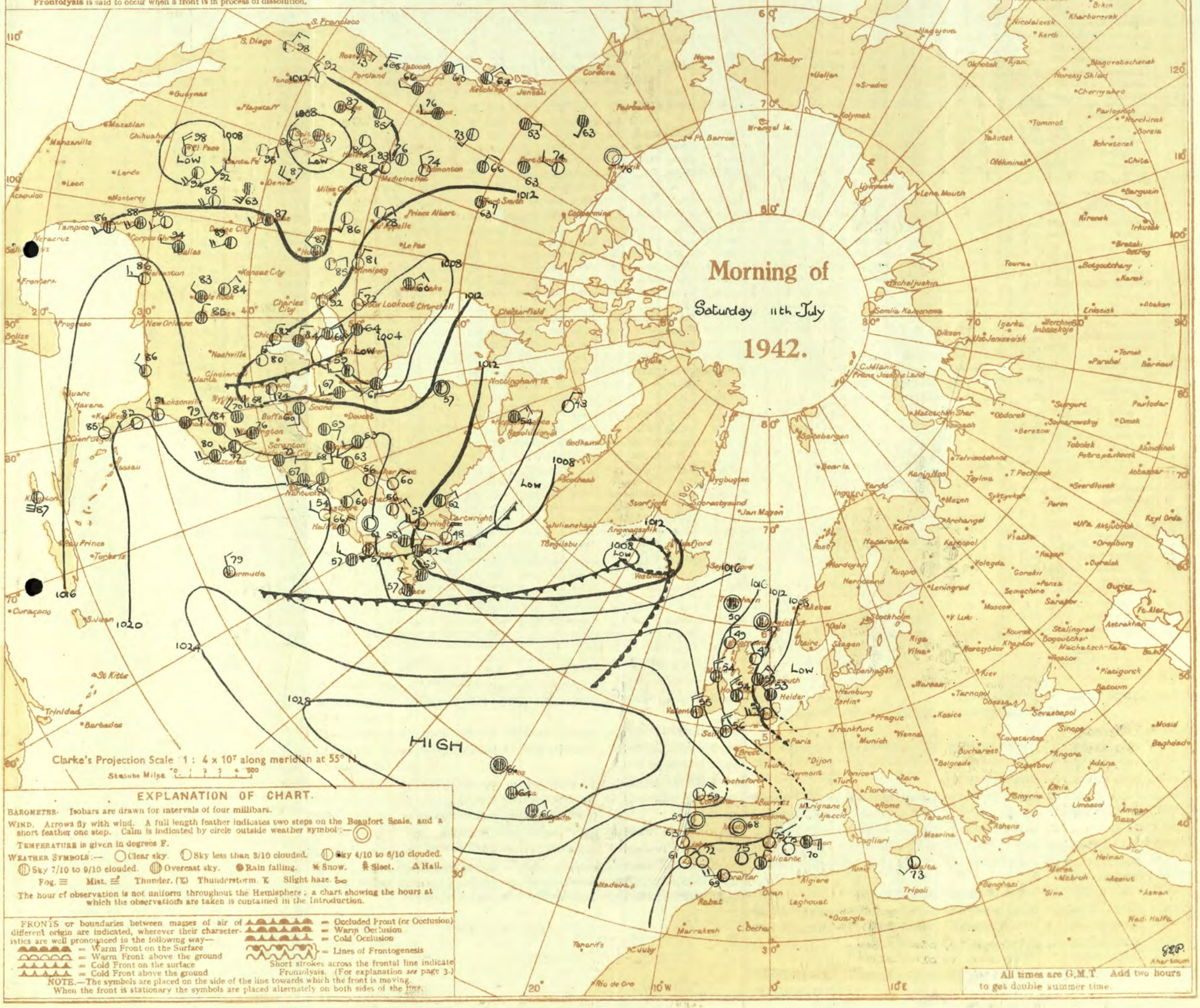
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



Page 4.

BRITISH SECTION

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

Saturday 11th July 1942

No. 29451

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)	°F. Dew Point (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	*	*	*	*	*	52	*	*	*	*	*	*	*	*	*
	Croydon ...	290	03·8	+2	WNW	4	bc	51	85	47	7	5	-	-	2·3	2·3	3000
	S. Farnborough	226	09·7	+4	N'N	3	bc	49	85	44	7	-	-	1	0	1	-
	Boscombe Down	417	11·7	+6	NW	3	b	50	85	45	8	4	-	-	Tr	Tr	4000
	Thorney Island	10	10·5	+6	WNW	4	b	51	85	47	7	-	-	-	0	0	-
	Lympne ...	283	07·9	+10	NNW	3	z0	53	92	51	6	5	·	-	10	10	600
	Manston ...	154	06·6	+6	WNW	4	r0r0	55	97	54	5	6	2	-	7-8	10	1000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	05·5	-2	NW	4	z0	55	97	53	6	5	2	-	7-8	10	5700
	Gorleston ...	5	05·4	-10	NNW	3	d0r0	55	85	50	5	6	-	-	10	10	800
	Mildenhall ...	15	07·0	-6	NW'W	3	z0	52	92	50	6	5	-	-	10	10	6500
	Cranwell ...	203	08·1	-2	NW'N	3	z0	51	92	49	5	5	-	-	2-3	2-3	2000
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·1	-2	NW	4	z0	49	85	44	6	-	4	-	0	1	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	14·5	0	NW	4	c/pr	55	85	49	8	2	4	-	4-6	7-8	2500
	Bristol ...	209	12·3	+2	W	2	c	51	85	46	8	5	4	-	7-8	7-8	5500
	Portland Bill ...	32	11·6	+6	W	4	c	56	92	54	7	5	-	-	7-8	7-8	2500
	Plymouth ...	82	15·3	+4	NW	3	pr	55	85	50	8	5	-	-	7-8	7-8	3500
	The Lizard ...	240	16·7	+4	NW	4	c/pr	55	75	47	8	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	18·0	+4	NW'N	6	bc	56	75	47	8	8	-	-	4-6	4-6	1500
	Guernsey ...	175															
6	Pembroke ...	142	14·6	-4	NW	5	c	54	85	50	8	8	-	-	7-8	7-8	3000
7	Holyhead (Valley)	32	13·5	+10	NNW	4	c	54	85	49	7	8	-	-	1	7-8	2000
	Chester (Sealand)	16	10·5	+4	NW'N	5	c	55	85	49	7	2	-	-	9	9	2000
8	Manchester ...	235	09·4	-2	NW'W	2	z0	50	92	47	6	5	-	-	4-6	4-6	4000
10	Spurn Head ...	29	07·5	-8	NW'N	4	c	53	92	51	6	5	2	-	7-8	10	1500
	Catterick ...	175	09·9	+2	NW	2	r0r0	51	92	50	8	5	2	-	7-8	10	900
	Tynemouth ...	108	10·4	0	NE	4	c/r	51	92	49	7	6	-	-	10	10	1500
11	St. Abbs Head	280	10·6	+2	N	4	ir	51	97	51	6	5	-	-	10	10	1500
	Leuchars ...	36	11·9	0	—	0	o/r	51	92	49	7	5	7	-	7-8	9	2000
12	Renfrew (Abbots I.)	19	12·4	+2	W	2	bc	48	92	46	7	8	-	-	7-8	7-8	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	11·8	+2	N	4	bc	52	92	52	8	3	-	-	2-3	2-3	2000
13A	Tiree ...	22	14·1	+2	N	2	b	51	85	47	9	1	4	-	Tr	1	3900
13B	Stornoway ...	80	14·7	0	N	1	bc	49	92	46	8	5	4	-	1	2-3	3500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	12·2	-2	NNW	2	b	47	92	46	9	8	-	1	Tr	Tr	5000
	Wick ...	114	12·5	-6	N	1	c	49	92	46	8	5	3	-	7-8	9+	2000
16	Sumburgh ..	19	12·3	-2	N'W	2	bc	57	92	49	8	5	3	-	2-3	4-6	2000
17	Blacksod Point	18	18·5	0	WNW	2	c	51	85	47	8	5	-	-	2-3	2-3	2500
18	Malin Head ...	84	14·3	+2	N'W	4	c	54	75	46	8	9	-	-	7-8	7-8	2500
	Aldergrove ...	268	14·3	+2	NW	3	b	48	92	45	7	5	4	-	Tr	1	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	20·5	0	NNW	4	bc	55	75	47	8	2	-	-	4-6	4-6	2500
	Roches Point	22	18·5	+2	NW'N	4	c	54	85	50	8	5	-	-	9	9	2500

OBSERVATIONS at 7 hr. G.M.T. 11th 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)	°F. Dew Point (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)	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 10th Hrs. (38)
London (Kew)	11·4	+14	WNW	2	c	53	75	46	7	5	3	-	7-8	9+	2500	1	*	59	50	45	11	1	0·0
Croydon	10·9	+14	W	3	c	51	85	47	7	5	3	-	2·3	7-8	2000	1	*	58	48	46	14	3	0·0
S. Farnborough	11·6	+10	WNW	3	c	52	75	46	9	5	7	3	1	7-8	2000	1	*	58	48	43	8	0·3	0·0
Boscombe Down	12·8	+10	NW'W	4	c	54	75	46	8	4	6	-	4-6	7-8	3000	1	*	57	47	43	3	3	0·0
Thorney Island	12·3	+10	WNW	4	oc	56	75	49	9	1	3	1	Tr	4-6	2500	1	*	59	47	46	5	Tr	*
Lympne	10·4	+14	NW	3	c/r	57	85	47	6	5	7	-	4-6	9	800	1	§	58	47	-	8	4	0·0
Manston	08·8	+14	S	4	r0r0	54	85	51	6	6	2	-	1	9+	800	1	*	58	52	51	6	6	0·0
Shoeburyness	09·5	+14	NW'W	3	c	54	85	50	6	5	3	-	9	9+	3000	1	*	60	51	48	13	3	0·0
Felixstowe	07·8	+14	WNW	4	c/pr	54	85	51	6	5	2	-	9	10	800	1	3	58	53	52	10	32	r
Gorleston	06·9	+14	N'W	4	c/pr	55	85	51	7	8		-	7-8	10	1600	1	3	59	53	51	11	3	0·0
Mildenhall	09·2	+14	NW'W	4	c/r	52	92	50	5	5	7	-	9	10	1000	1	*	58	50	48	19	3	0·0
Cranwell	09·7	+14	NW	4	z0	52	92	50	6	6	3	-	4-6	9+	1000	1	*		48	46	1	3	0·0
Birmingham	11·7	+10	NNW	3	c/pr	51	92	49	6	8	7	-	9	9+	1500	1	*	62	49	46	—	1	1·9
Upper Heyford	10·9	+12	NW	4	c	52	85	48	8	5	3	-	2-3	9	2000	1	*	58	48	45	1	0·6	*
Ross-on-Wye	13·0	+12	NW'W	3	c	54	75	45	9	5	-	-	9	9	3300	0	*	65	49	42	—	·	2·1
Hartland Point	16·0	+12	NNW	4	c	54	85	48	8	2	4	2	4-6	7-8	1800	0	4	58	52	52	—	7	8·8
Bristol	13·8	+14	NNW	4	bc	55	75	48	8	5	-	-	2-3	2-3	5700	1	*	63	50	42	0·1	0·2	0·5
Portland Bill	14·8	+20	NW	4	c	56	85	52	8	2	-	1	7-8	7-8	4000	1	4	59	54	*	21	—	*
Plymouth	16·2	+8	NW'W	3	c	56	85	50	8	8	6	-	7-8	7-8	3000	1	3	64	52	50	Tr	0·5	7·1
The Lizard	17·0	+4	NW	3	c	55	85	49	8	8	6	-	7-8	9+	1500	0	3	63	53	*	—	0·5	10·8
Scilly (St. Mary's)	18·6	+6	NW'N	4	c/pr	55	85	50	8	8	6	5	4-6	7-8	1200	1	4	62	53	*	0·2	Tr	11·6
Guernsey																							
Pembroke	16·4	+12	NW	4	oc	54	85	50	8	2	4	-	4-6	4-6	3000	1	3	61	47	*	—	0·1	8·8
Holyhead (Valley)	14·1	+10	NNW	4	bc	54	75	48	8	2	6	-	4-6	7-8	2500	1	2	62	51	46	—	2	*
Chester (Sealand)	12·6	+8	NW'N	4	c/pr	55	85	50	7	2	6	-	4-6	9+	2000		*	61	54		0·5	3	10·8
Manchester	11·3	+14	NW	2	z0	53	85	47	6	8	-	-	9+	9+	3500	0	*	64	49	43	—	-	*
Spurn Head	08·5	+10	N'W	5	c	55	85		7	8	6	-	4-6	7-8	1500	1	3	60	52	46	—	0·3	1·2
Catterick	11·6	+14	NNW	3	ir0	53	85	49	7	5	-	-	10	10	1300	1	*	66	51	45	Tr	1	5·0
Tynemouth	11·3	+12	NNW	4	c	52	92	50	7	8	-	-	9	9	2200	1	3	58	55	51	—	-	*
St. Abbs Head	11·5	+8	NNW	3	bc	51	85	47	8	2	4	-	2-3	4-6	3500	0	3	59	49	*	—	1	*
Leuchars	12·6	0	W	2	b	52	85	49	9	5	-	-	Tr	Tr	6000	1	*	55	46	41	4	1	0·3
Renfrew (Abbots I.)	13·3	+6	WNW	1	b	55	85	50	8	2	4	-	Tr	2-3	4000	1	*	65	46	43	2	0·2	7·3
Eskdalemuir	12·4	+6	N'E	2	bc	52	75	44	8	2	4	-	1	2-3	1800	1	*	61	45	41	—	0·3	5·5
Point of Ayre	13·4	+10	N'W	4	c	55	92	52	8	7	-	-	9+	9+	5400	0	4	64	53	*	—	-	12·0
Tiree	14·8	+8	N'E	2	bc	54	85	49	8	1	3	5	Tr	2-3	3500	0	3	60	51	*	—	—	10·0
Stornoway	14·7	+4	NNE	3	c	52	85	48	8	5	7	-	4-6	7-8	3500	2	1	55	44	*	2	—	6·2
Dalwhinnie	13·7	0	N	1	c	48	75	41	8	5	-	-	9+	9+	2500	1	*	59	37	30	6	3	1·1
Aberdeen †	11·7	+4	NNW	4	b	53	85	49	8	1	-	-	1	1	2500	1	2	55	45	41	1	Tr	0·0
Wick	12·9	+6	NNW	1	bc	52	92	49	7	8	3	-	4-6	7-8	1500	0	*	55	46	42	Tr	Tr	*
Sumburgh	11·9	+2	NNE	2	c	53	85	49	8	8	-	-	10	10	2500	0		59	48	44	—	Tr	
Blacksod Point	17·6	-2	WNW	2	ir0	54	85	49	8	8	-	-	10	10	2500	1		60	51	*	-	Tr	*
Malin Head	14·7	+2	NW'N	3	bc	56	75	48	8	9	-	-	7-8	7-8	2500	1	4	57	52		1	0·5	4·2
Aldergrove	15·1	+6	NNW	1	c	51	92	48	8	2	-	6	2-3	7-8	3000	1	*	61	42	37	0·5	Tr	6·[illegible]
Birr Castle	16·9	+4	WNW	2	c	54	75	46	8	5	1	-	7-8	10	2500	0	*	62	49	46	0·5	—	8·0
Valentia Obsy.	19·8	+2	NW	2	r0r0	55	92	53	8	5	7	-	2-3	10	1500	1	3	60	52	50	0·3	0·2	5·1
Roches Point	18·4	+4	NW	3	c	54	92	52	8	5	7	-	4-6	9+	1500	0	3	61	54	*	Tr	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 10th July $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 11th July $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	87	02854	02325	80	00953	28323				83	02764	30325
115				54	01944	32114	52	02835	·····	52	81734	32287
203	74	02934	04265									
206	87	81865	32387	87	02855	32285	50	00962	00012	53	02966	26317
210	87	02343	01326	86	02977	01317	5-	01354	27314	8-	02855	28325
220	84	25955	29386	57	25954	29486						
230	86	02954	24385	87	02954	28325	5-	01964	32224	54	00961	26112
245	27	61742	07368	27	61944	04368	53	01964	32164	20	00953	30303
260	8-	02746	01116	62	61768	21168	5-	64638	26168	53	01862	30163
278	24	02956	28426	24	00953	29613	53	01854	26414	84	01965	30315
279	86	81965	22225	86	25856	31387	57	02754	31486	73	02865	02326
285	53	02855	26427									
288	86	10665	01327	3-	81648	00098	8-	63568	30368			
575	2-	10857	30487	36	81747	63487	87	02857	30288	8-	02857	28227
301	83	00862	29423	20	00963	29903	57	02854	30586	27	01754	81646
321	8-	02865	03228	57	62755	04267	57	05653	28366			
299	51	02755	30227	31	02765	08127	80	02745	28225			
292	87	02964	26127	86	81765	19227	32	02767	28228	53	22645	27367
310										--	02628	26318
614	29	05655	02227	93	81445	00098	47	05563	27286	53	05565	30226

III	13h. G.M.T. 10th July $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 11th July $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	20	01964	31414	23	01962	30314	8-	01854	61485	2-	02855	30315
334										--	63647	24288
340	86	02864	30415	10	01963	30413	3-	81855	28385	23	02755	30326
136	12	62742	04168	52	22634	01468	5-	22768	30468	86	25735	28487
336	80	02756	28316							20	01754	28514
350	52	62554	30286	82	62665	29268	5-	05667	59327	57	26328	10851
368	87	02854	28327	26	00961	58482	53	02865	29315	83	09753	26313
379				57	22645	32267	50	01865	28415	87	25854	26485
390	62	62634	28268	32	62635	26268	62	05574	28864	5-	05635	24327
388	62	62643	01368	52	62756	03268	50	00871	25301	56	25964	28326
438	50	02626	02265	82	62638	32468	54	02744	24365	27	0253	30425
430	62	64536	32368	52	62665	28268	00	05690	26260	23	01851	26324
409	5-	02854	32425	10	00952	61512	20	01854	30484	2		

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 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 ...	rmrormo	prorocro	crormoc
Croydon ...	orfrf	cmororo	crormobcc
Greenwich ...	orR	rr	rrocbc
Camden Square	o	c	*
Kensington ...	oro	cr	*
Hampstead ...	or	or	orbc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·1 Time 7-11h 10th; Min. <0·1 Time 23-24h 10th.

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 ...	59	50	45	11	1	0·0	*	*
Croydon ...	58	48	46	14	3	0·0	*	*
Greenwich ...	58	51	46	7·9	1·0	0·0	85	72
Westminster ...	59	51	47	7·1			95	77
Regents Park ...	59	50	45	6·0	2·3		85	69
Camden Square	58	51	47	8·6	1·3	*	*	91
Kensington ...	59	50	46	6·0	2·1		90	72
Hampstead ...	56	47	44	5·9	1·7		*	81

SECRET

Page 1 BRITISH SECTION

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

Sunday 12th July 1942

No. 29,452

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)	°F. Dew Point (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)	13.1	+8	NWW	3	c	62	55	46	8	8	-	-	9	9	4000
	Croydon	13.4	+12	NW	4	c	61	65	49	7	8	3	-	4-6	9	2300
	S. Farnborough	14.0	+8	NW	3	c	62	55	46	8	8	3	•	7-8	9	5000
	Boscombe Down	15.0	+10	NNW	4	c	61	65	47	8	7	6	-	7-8	9+	2000
	Thorney Island	14.6	+10	WNW	4	c	62	65	49	9	2	6	-	7-8	10	4000
	Lympne	13.5	+14	WNW	4	bc/pr	58	75	51	6	3	6	3	2-3	4-6	3000
	Manston	11.9	+14	WNW	4	pr	61	75	54	6	9	7	-	4-6	9	1800
2	Shoeburyness	12.3	+8	WNW	3	c	62	65	51	7	2	3	-	4-6	9	2000
	Felixstowe	11.3	+14	NNW	5	bc/pr	59	75	50	8	8	7	3	2-3	4-6	2500
	Gorleston	09.9	+14	N'W	5	c	60	75	50	7	8	-	-	9+	9+	1800
	Mildenhall	11.8	+10	NW	4	bc/pr	60	75	51	8	3	6	3	2-3	4-6	2500
	Cranwell	12.3	+14	NW	4	bc	63	55	46	7	1	-	-	4-6	4-6	2000
3	Birmingham	14.2	+10	NNW	4	ʒ	57	65	45	6	8	-	-	10	10	1500
	Upper Heyford	13.6	+14	WNW	5	c	59	65	49	7	7	-	-	9	9	7200
4	Ross-on-Wye	14.9	+8	WNW	3	c	61	65	47	9	7	-	-	9+	9+	3500
5	Hartland Point	17.6	+4	WNW	3	c	57	75	49	8	2	4	-	4-6	9	2000
	Bristol	15.5	+6	WNW	4	c	63	55	47	9	2	6	-	9	9+	2500
	Portland Bill	16.6	+6	W	4	bc	62	92	60	8	2	-	-	4-6	4-6	4000
	Plymouth	17.9	+6	NW'N	4	c	61	65	49	8	8	4	1	9	9	3000
	The Lizard	19.2	0	WNW	3	bc	60	75	50	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	19.9	+6	WNW	3	c	64	65	56	8	8	4	7	4-6	10	1200
	Guernsey															
6	Pembroke	18.0	+6	NW'W	3	c	57	85	51	8	2	4	-	4-6	7-8	3000
7	Holyhead (Valley)	15.9	+10	NW	4	bc	60	65	48	8	2	6	1	2-3	4-6	2500
	Chester (Sealand)	14.6	+10	NW	5	bc	60	65	49	8	2	4	-	4-6	4-6	3000
8	Manchester	13.6	+8	NW'W	4	c/pr	58	65	48	7	2	-	-	7-8	7-8	3000
10	Spurn Head	11.9	+18	N'W	6	bc	57	75	48	7	8	6	-	4-6	4-6	4000
	Catterick	13.2	+6	NW	3	c	59	55	45	7	7	-	-	9+	9+	4000
	Tynemouth	13.1	+4	N	4	bc	57	75	49	8	8	-	-	4-6	4-6	2800
11	St. Abbs Head	12.6	+6	NW	2	bc	59	65	47	8	5	4	-	2-3	4-6	3500
	Leuchars	12.5	+4	—	0	c	61	65	47	9	8	•	-	9	9	4500
12	Renfrew (Abbots I.)	13.1	0	NW	2	bc	66	65	58	9	2	•	8	4-6	7-8	4500
	Eskdalemuir	12.8	0	N	2	c	59	55	43	8	8	-	•	7-8	7-8	2200
	Point of Ayre	14.7	+2	NW'N	4	b	64	75	55	8	1	4	4	Tr	1	2500
13A	Tiree	15.6	0	N'E	2	b	59	75	49	9	1	-	5	1	1	3500
13B	Stornoway	15.9	+6	NE	3	c	54	85	50	8	5	7	-	7-8	10	2500
15	Dalwhinnie	13.7	+2	N	2	c	56	65	43	8	5	•	-	9+	9+	2500
	Aberdeen	12.5	+2	N'W	4	bc	58	75	50	8	2	-	-	4-6	4-6	2300
	Wick	13.8	+6	N	3	c/pr	54	92	52	8	8	-	-	10	10	1500
16	Sumburgh	12.7	+4	NE'N	4	bc	57	75	49	8	5	3	2	4-6	7-8	2500
17	Blacksod Point	18.0	0	WSW	2	rʒr	57	85	52	6	6	2	-	2-3	10	800
18	Malin Head	16.2	+6	N	2	bc	57	75	49	8	9	-	-	7-8	7-8	2500
	Aldergrove	16.0	+4	NW	3	c	61	55	46	9	7	-	1	7-8	9	3000
19	Birr Castle	17.6	0	WSW	2	pr	60	75	52	8	8	2	-	7-8	10	1500
20	Valentia Obsy.	20.0	+2	NWN	4	irʒ	57	92	55	7	5	2	-	9	10	1500
	Roches Point	18.8	+2	NW'W	3	irʒ	57	85	52	8	6	2	-	4-6	9+	1500

OBSERVATIONS at 18h. G.M.T. 11th 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)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point (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. 11th (39)	Weather 13h.–18h. 11th (40)	Weather 18h. 11th to 1h. 12th (41)	Weather 1h.–7h. 12th (42)
London (Kew)	14.3	+6	WNW	3	bc	64	55	45	8	7	3	-	4-6	7-8	2500	1	*	ciʒcy	cybcy	cbcbw	bmʒw
Croydon	14.5	+6	NW'W	4	bc	62	65	48	8	9	-	-	4-6	4-6	2800	1	*	cpʒc	bccbc	cm bmw	bmwb
S. Farnborough	14.9	+2	WNW	3	c	62	55	44	9	2	7	-	2-3	7-8	3500	0	*	cpʒc	cpʒbcc	cyobcbw	bwmʒb
Boscombe Down	16.1	+4	WNW	4	bc	62	65	48	8	8	3	-	2-3	4-6	3500	0	*	bcc	bcjp	bc	bc
Thorney Island	15.3	0	W'N	3	bc	64	65	51	9	2	6	-	2-3	7-8	4000	1	*	ccy	cybc	bc	cbccb
Lympne	15.2	+10	NNW	1	ʒ	57	75	50	6	3	6	3	7-8	9+	3200	1	§	bcprpʒ	cprʒcm	prbcm	bmʒm
Manston	13.4	+8	NNW	1	ʒ	60	85	55	6	2	3	3	4-6	7-8	2800	1	*	cʒm	cm prbc	cbcm	bcbmʒw
Shoeburyness	13.8	+6	NW	3	c	62	65	49	7	2	3	-	4-6	9+	2000	1	*	ciʒPRc	cPRc	cpʒbm	bm
Felixstowe	12.9	+6	WSW	2	bc	63	75	54	8	8	-	-	7-8	7-8	4000	1	2	cmcprbc	bccpʒcbc	prbcbm	bmb
Gorleston	12.4	+8	N'W	4	bc	60	55	45	7	1	4	-	2-3	2-3	2500	0	4	c	bcy	bc	bcs
Mildenhall	13.0	+6	NNW	2	c/pr	60	75	51	8	3	6	-	7-8	7-8	1500	1	*	cmʒcprbc	bccpʒc	cbcbbw	bbcm
Cranwell	13.0	+2	W'N	4	c	63	55	48	7	8	2	-	7-8	9+	3000	0	*	cbc	cy	bcm cm	bbccm
Birmingham	14.9	+2	NW	3	bc	61	55	45	8	8	-	-	4-6	4-6	4000	1	*	cbcc	cbc	bʒ	bcʒ
Upper Heyford	14.3	+2	W'N	3	bc	62	65	48	8	8	3	-	1	2-3	3000	0	*	ccpʒc	cpʒbc	bcb	bbw
Ross-on-Wye	15.3	+8	NW'W	3	bc	63	55	48	9	2	6	-	4-6	4-6	3500	0	*	cv	cv	bcv bv	bw
Hartland Point	17.8	-2	WNW	3	c	57	75	49	9	2	4	5	4-6	7-8	2000	0	3	bccʒ	c	cbcc	c
Bristol	16.2	0	W	4	bc	62	55	49	9	7	4	-	2-3	2-3	4000	1	*	bccyv	bcyv	bcvbwv	bbcfg
Portland Bill	17.7	+6	W	4	bc	60	92	58	8	2	-	-	4-6	4-6	4000	1	4	cbc	bcbc	cbc	bcbc
Plymouth	18.3	0	NW	4	c	59	75	50	8	7	7	-	4-6	9+	2500	0	3	c	c	cbcc	c
The Lizard	19.1	-4	WNW	3	c/pr	56	85	52	8	8	6	-	7-8	9+	2500	1	3	cbc	cprc	c	cw
Scilly (St. Mary's)	19.6	-2	WNW	2	c	58	85	53	8	8	7	-	4-6	10	1200	1	3	c	ciʒc	cpc	cbc
Guernsey																					
Pembroke	18.0	-4	W'N	4	c	57	85	53	8	8	6	-	4-6	7-8	3000	0	2	c	c	cbcc	c
Holyhead (Valley)	16.4	+2	SW'W	3	bc	59	65	48	9	2	6	1	1	2-3	3000	0	2	bc	bcb	bcbw	bfgw
Chester (Sealand)	15.6	0	NW	4	b	60	65	49	8	1	-	-	Tr	Tr	3000	0	*	cpʒm	bcb	b	b
Manchester	14.5	+6	WNW	4	bc	61	55	45	9	2	-	-	2-3	2-3	2500	0	*	cʒpʒ	cbcyv	bm	bcmʒw
Spurn Head	12.9	+4	N	5	bc	59	75	49	7	7	6	1	2-3	4-6	2500	0	4	c	bc	bc	cbc
Catterick	18.8	+4	NE	1	ʒ	58	75	50	6	8	6	-	4-6	7-8	2000	0	*	ciʒc	ccm	cʒmcm	bcmʒc
Tynemouth	14.3	+6	N	4	bc	57	75	49	8	2	3	-	2-3	2-3	2800	1	3	cbc	bccbc	bcc	c
St. Abbs Head	13.2	0	NW	1	c	58	75	48	8	5	4	-	7-8	9	3500	0	2	bcbbc	bcc	c	bcc
Leuchars	13.3	+6	WNW	1	c	61	75	54	8	8	6	-	7-8	9	3000	1	*	bbcc	pʒrrc	ccpʒc	cbcb
Renfrew (Abbots I.)	14.2	+4	NW	2	c	61	85	56	8	3	7	-	7-8	9	3500	1	*	bcybc	cpʒPR	cpʒiʒb	b
Eskdalemuir	13.2	+2	WNW	2	bc	57	65	46	8	8	7	1	4-6	4-6	2500	1	*	bccy	cpʒbc	bc	bcw
Point of Ayre	15.1	+6	NW'N	4	b	61	75	52	8	1	-	4	Tr	1	4500	0	3	cbcb	b	b	bbcb
Tiree	16.4	-2	NNW	3	b	57	75	49	5	1	-	3	Tr	1	3500	0	3	bc	bcb	c	cbc
Stornoway	16.9	0	NE	3	c/pr	55	85	50	8	5	7	-	4-6	9+	2500	1	2	c	cpr	bc	bc
Dalwhinnie	14.7	+6	N	1	c	53	85	48	8	5	-	-	9+	9+	2500	0	*	c	c		cpʒbc
Aberdeen	14.2	+12	N'E	4	c	57	75	49	8	9	3	-	9	9+	1800	0	3	bc	bcc	cbc	cbc
Wick	14.9	+6	NNW	3	c/pr	55	85	48	8	5	-	-	4-6	7-8	2000	0	*	bbcpʒ	c	cbcc	cbcc
Sumburgh	13.6	+6	N	5	c	55	65	45	8	5	-	-	9+	9+	2000	0	3	cbc	bccbcc	c	c
Blacksod Point	18.6	+4	WNW	3	c	58	85	53	8	8	3	-	4-6	7-8	4000	1	2	r	bc	c	bc
Malin Head	16.7	+4	NNW	2	bc	57	65	45	8	2	-	2	2-3	4-6	2500	0	2	c	bc	bc	bc
Aldergrove	16.7	+6	NW	2	c	59	65	47	9	7	-	1	7-8	7-8	3000	1	*	cb ccy	cy	cbcb	bbcwfg
Birr Castle	17.7	-2	W	1	c	62	65	50	8	5	-	-	4-6	9	2500	0	*	pr	pr		r
Valentia Obsy.	20.0	-2	NW'W	3	c	58	85	53	8	8	3	-	9	9	1500	1	3	r	pr	pr	r
Roches Point	18.0	-6	N'W	4	c	58	85	53	8	3	3	-	4-6	7-8	1500	1	3	r	r	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 12th July 1942.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Light northwest wind backing west; fair, apart from a few showers today near the East Coast; average temperature.
5 S.W. England, 6 South Wales	Light variable wind backing west later; mainly fair but variable cloud and some slight local rain at first; average temperature.
7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	Light variable wind backing west; fair; average temperature.
12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland	Light variable wind becoming moderate or fresh southwest; fair at first; cloud increasing later with some rain tomorrow; average temperature.
14 Mid Scotland, 15 N.E. Scotland	Light variable wind becoming light or moderate southwest; fair; rather cool at first, average temperature later.
16 Orkneys and Shetlands	As 14-15.
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	Light or moderate southwest wind; slight local rain at first; more general rain spreading from west later; average temperature.

GENERAL INFERENCE

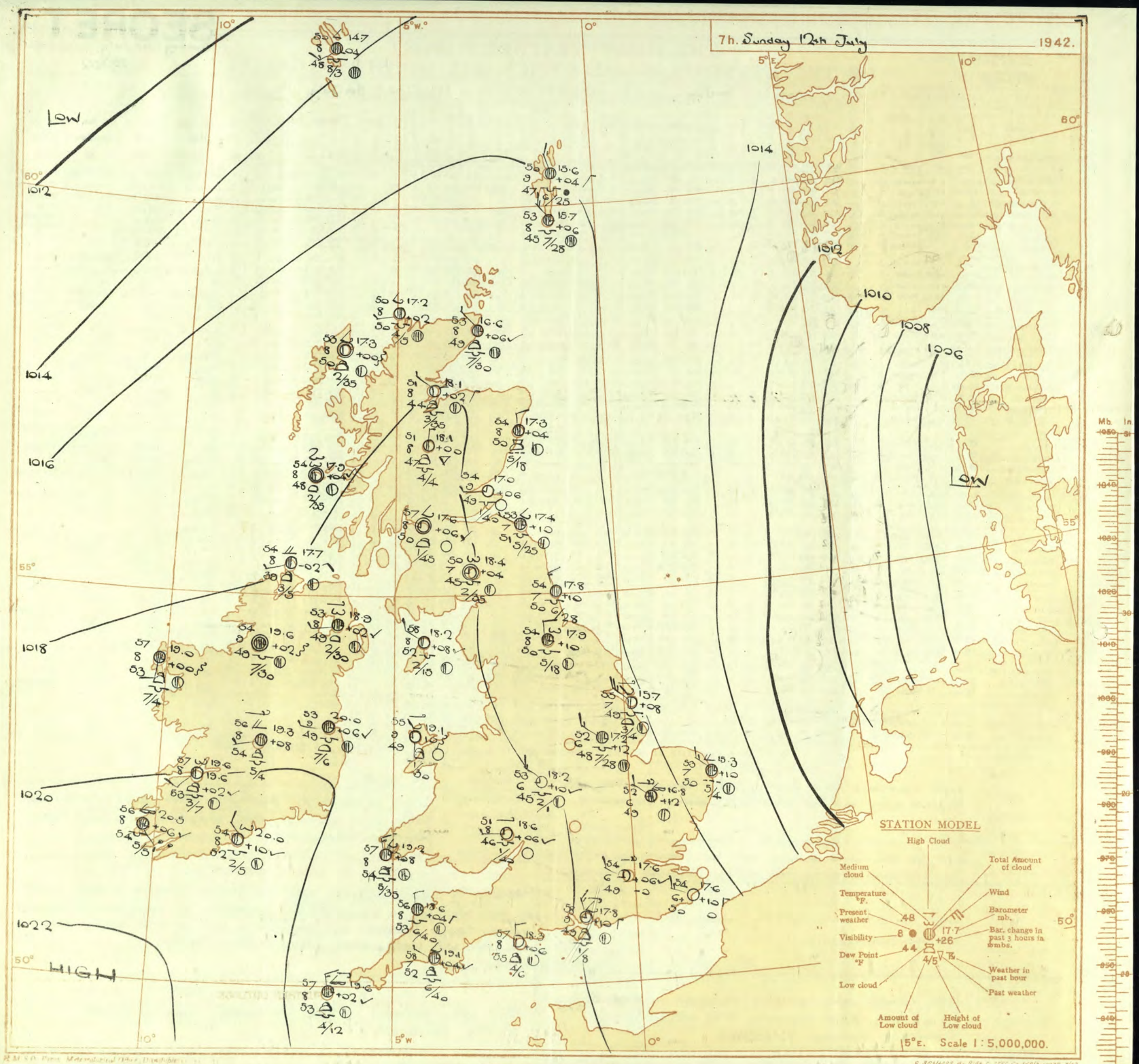
Pressure is nearly uniform over the British Isles but is likely to fall in the west as a trough of low pressure to westward of Ireland moves east. Weather will be mainly fair at first but low cloud and rain will reach West Ireland later today.

FURTHER OUTLOOK

Fair and warmer in the Southeast; rain at times in the Northwest.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2


7h. Sunday 12th July 1942.
LOW
HIGH
1012
1014
1016
1018
1020
1022
1010
1008
1006
STATION MODEL
High Cloud
Medium cloud
Temperature °F.
Present weather
Visibility
Dew Point °F
Low cloud
Amount of Low cloud
Height of Low cloud
Total Amount of cloud
Wind
Barometer mb.
Bar. change in past 3 hours in mmbs.
Weather in past hour
Past weather
Scale 1 : 5,000,000.

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).

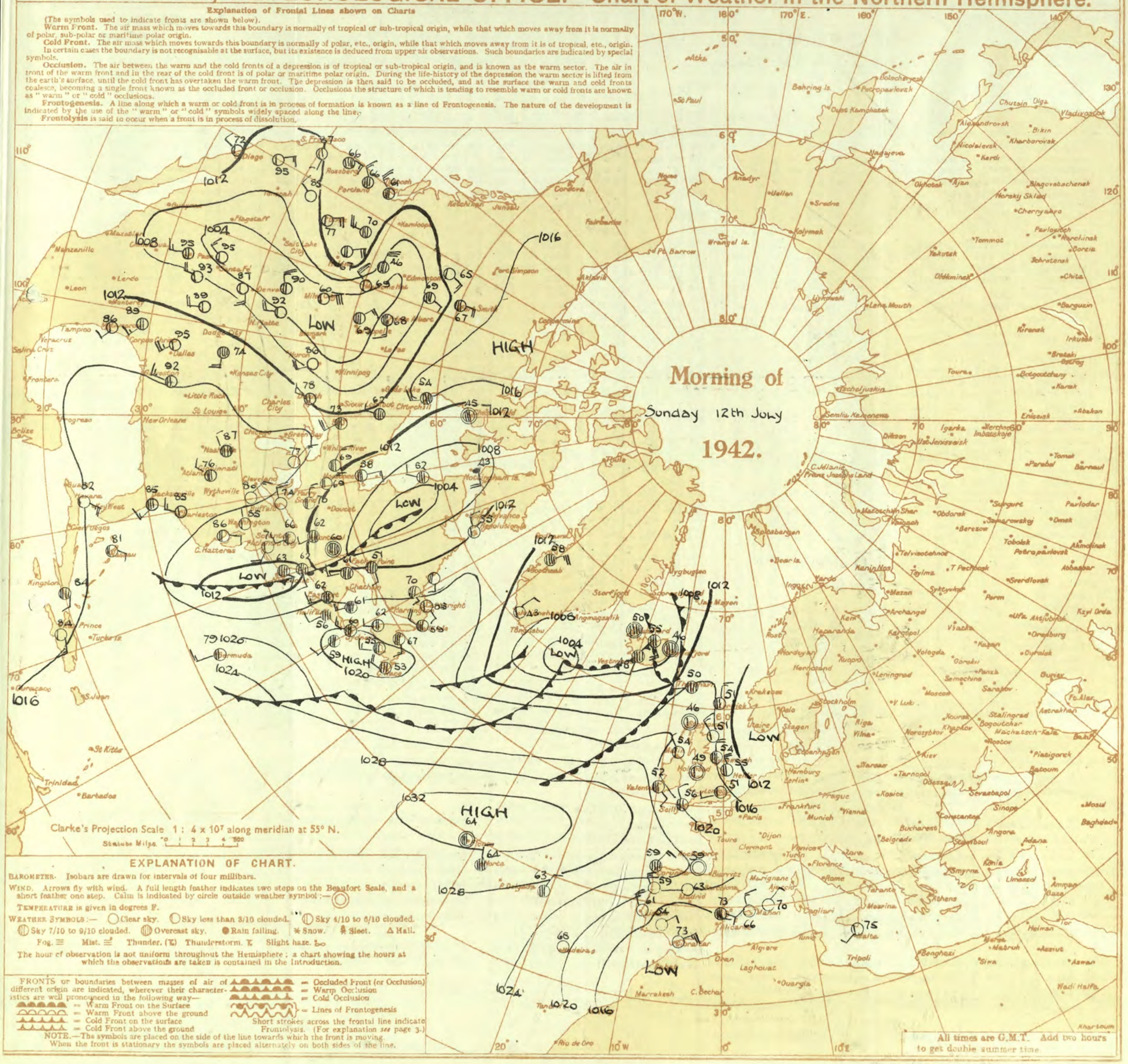
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



Page 4.

BRITISH SECTION

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

Sunday 12th July 1942

No. 29,452

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)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	54	*	*	*	*	*	*	*	*	*
	Croydon	290	16.4	+6	WSW	1	b	51	92	48	6	5	-	-	Tr	Tr	3500
	S. Farnborough	226	16.7	+4	WNW	1	b	50	92	47	8	-	-	-	0	0	-
	Boscombe Down	417	17.4	+4	NW	2	b	48	92	45	7	5	-	-	1	1	3000
	Thorney Island	10	16.8	+2	NW	1	bc	51	92	49	8	5	-	-	4-6	4-6	4000
	Lympne	283	16.5	+4	SSW	2	b	49	92	47	6	-	-	-	0	0	-
	Manston	154	15.5	+6	W	2	z	53	92	51	5	5	-	2	2-3	4-6	3000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	14.5	+2	WSW	3	z	55	92	52	6	5	-	-	Tr	Tr	4000
	Gorleston	5	14.2	+4	NW'W	2	bc	51	85	47	7	-	4	-	0	2-3	-
	Mildenhall	15	15.0	+6	W'N	3	b	50	92	47	7	0	-	-	Tr	Tr	4000
	Cranwell	203	15.2	+6	NW'W	3	z	52	85	48	6	5	-	-	9+	9+	4400
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	16.7	+6	W	1	b	47	92	44	7	-	4	-	0	Tr	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17.8	-2	WNW	3	c	56	85	50	8	5	-	-	7-8	7-8	1500
	Bristol	209	18.2	+8	-	0	b	48	85	44	8	-	4	-	0	Tr	-
	Portland Bill	32	18.0	+2	W	3	bc	57	92	54	8	5	-	-	4-6	4-6	4000
	Plymouth	82	18.9	+4	NW	2	c	54	85	50	8	5	7	-	2-3	7-8	3500
	The Lizard	240	19.4	+4	-	0	c	55	92	53	8	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	163	19.5	+2	NNW	2	c	56	97	54	8	8	-	-	7-8	7-8	1500
	Guernsey	175															
6	Pembroke	142	18.4	0	NW'W	3	c	55	97	54	8	8	6	-	4-6	7-8	4000
7	Holyhead (Valley)	32	17.9	+8	-	0	fg	49	97	48	8	-	4	-	0	1	-
	Chester (Sealand)	16	16.7	+2	WNW	3	b	52	85	48	8	1	4	1	Tr	Tr	2500
8	Manchester	235	16.3	+6	'W	3	bc	49	85	46	6	5	-	-	2-3	2-3	4000
10	Spurn Head	29	14.7	+6	NW	5	bc	55	85	50	7	7	4	-	2-3	4-6	2500
	Catterick	175	16.1	+4	WNW	1	z	49	92	48	5	-	3	-	0	2-3	-
	Tynemouth	108	15.7	+4	N	4	c	54	85	49	7	8	-	-	9+	9+	2500
11	St. Abbs Head	280	15.4	+10	NNW	3	c	54	85	50	8	5	-	-	9+	9+	2500
	Leuchars	36	15.9	+6	W	1	c	54	92	52	8	5	-	-	9	9	4000
12	Renfrew (Abbots I.)	19	16.1	+6	W'S	1	bc	52	92	50	7	5	-	-	2-3	2-3	3500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	16.8	+2	NW'N	4	b	53	92	51	8	5	*	*	Tr	Tr	4000
13A	Tiree	22	17.5	+2	NW'N	1	c				8	-	-	6	0	7-8	-
13B	Stornoway	80	17.3	+4	-	0	bc	46	92	44	7	2	4	-	1	2-3	3500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	15.6	+4	NW	3	bc	51	85	47	9	5	-	-	2-3	2-3	2500
	Wick	114	16.4	+4	N	2	c	51	92	48	8	5	-	-	7-8	7-8	1500
16	Sumburgh	19	14.9	+2	NNE	3	c	51	75	43	8	5	-	-	10	10	3000
17	Blacksod Point	18	19.4	+2	W'S	1	c	55	97	54	8	8	-	-	9+	9+	1500
18	Malin Head	84	17.7	+2	NW	1	bc	54	65	43	8	2	-	-	2-3	2-3	2500
	Aldergrove	268	18.6	+6	SE	1	b	42	92	40	8	5	-	-	Tr	Tr	5000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	20.6	+2	ESE	2	c	52	92	50	8	5	-	-	4-6	9+	2500
	Roches Point	22	19.0	+2	NW'N	4	bc	54	85	50	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 12th 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)	Temp. Max. Day 7h–18h °F. (33)	Temp. Min. Night 18h–7h °F. (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 11th Hrs. (38)
London (Kew)	18.0	+8	NNW	2	z	55	75	48	6	-	-	3	0	2-3	-	1	*	65	50	36	Tr	Tr	5.7
Croydon	17.6	+6	NW	2	b	54	85	49	6	-	-	2	0	1	-	1	*	65	47	43	Tr	Tr	5.8
S. Farnborough	18.0	+8	W'N	2	b	53	85	47	9	-	5	-	0	1	-	0	*	64	41	33	0.1	Tr	4.9
Boscombe Down	18.8	+8	N'W	2	bc	52	85	47	8	8	4	-	2-3	4-6	3000	0	*	64	44	36	Tr	-	8.0
Thorney Island	17.8	+10	NNW	3	b	58	75	49	9	8	4	3	Tr	1	7200	0	*	66	49	46	-	-	*
Lympne	17.6	+10	NW'W	3	z	54	85	50	6	-	-	-	0	0	-	1	§2	65	44		3	Tr	4.2
Manston	16.7	+10	WNW	3	z	55	92	53	6	1	3	-	Tr	Tr	2000	1	*	62	51	48	4	0.1	3.1
Shoeburyness	17.3	+12	WNW	3	b	56	75	49	6	-	4	-	0	Tr	-	1	*	66	49	42	1	Tr	3.6
Felixstowe	16.1	+12	WNW	3	b	54	85	50	7	-	7	-	0	1	-	1	2	64	52	47	1	1	5.4
Gorleston	15.3	+10	NW	3	c	53	92	50	7	6	2	-	7-8	10	1100	0	3	61	49	49	Tr	-	9.2
Mildenhall	16.8	+12	WNW	3	z	52	85	49	6	-	7	2	0	7-8	-	1	*	66	46	41	1	-	6.8
Cranwell	17.2	+12	NW	3	z	52	85	48	6	5	-	-	9+	9+	2800	1	*	*	48	44	Tr	Tr	8.1
Birmingham	18.2	+10	NW	3	z	53	75	45	6	5	-	-	1	1	3500	1	*	64	48	41	-	-	4.[illegible]
Upper Heyford	17.7	+6	NW'N	3	bc	52	85	47	8	-	3	-	0	2-3	-	0	*	62	45	39	Tr	-	*
Ross-on-Wye	18.6	+6	W	1	b	51	85	46	8	5	-	1	Tr	Tr	4000	0	*	65	42	35	-	-	5.2
Hartland Point	18.6	+4	WNW	2	c	56	92	53	8	5	-	-	9	9	4000	0	3	59	55	55	Tr	-	9.2
Bristol	19.5	+10	-	0	c	54	85	48	7	5	-	-	9+	9+	5700	0	*	65	43	33	-	-	8.5
Portland Bill	18.3	+6	NNW	2	bc	57	92	55	8	2	-	-	4-6	4-6	4000	1	3	62	55	*	-	-	*
Plymouth	19.1	+4	NW	1	c	55	92	52	7	8	4	-	9	9+	4000	0	2	62	52	48	-	-	3.3
The Lizard	19.1	+2	-	0	c	56	92	54	8	8	2	-	7-8	9+	1400	1	2	62	53	*	0.5	-	5.5
Scilly (St. Mary's)	19.6	+2	NNW	3	c	57	92	53	8	8	7	3	4-6	9+	1200	1	2	64	55	*	Tr	1	14.3
Guernsey																							
Pembroke	19.2	+8	NW'W	2	c	57	92	54	8	8	4	-	7-8	9	3500	0	2	60	50	*	-	-	9.0
Holyhead (Valley)	19.1	+10	S	1	b	55	85	49	9	2	4	1	Tr	1	3000	0	1	63	44	35	-	-	*
Chester (Sealand)	18.3	+14	NW'W	3	b	57	75	49	8	5	-	-	1	1	3000	0	*	62	47	41	0.4	-	9.1
Manchester	17.6	+10	NNW	1	z	55	92	52	5	2	-	-	2-3	2-3	2500	0	*	65	47	39	-	-	*
Spurn Head	15.7	+8	NW	5	bc	55	85	49	7	7	4	1	2-3	4-6	1500	0	3	60	54	53	1	-	8.2
Catterick	17.9	+10	N	2	c	54	85	50	8	5	3	-	7-8	9	1800	1	*	63	48	42	Tr	3	3.2
Tynemouth	17.8	+10	NNW	3	c	54	85	50	7	5	-	-	9	9	2800	0	3	57	53	51	-	-	*
St. Abbs Head	17.4	+10	WNW	2	c	53	92	51	7	5	4	-	7-8	9	2500	0	2	63	52		-	-	*
Leuchars	17.0	+6	W	1	b	54	85	49	9	5	-	-	Tr	Tr	4000	1	*	65	47	42	2	0.2	9.2
Renfrew (Abbots I.)	17.6	+6	-	0	b	57	75	50	8	2	4	-	Tr	Tr	4500	1	*	66	47	41	0.3	2	10.1
Eskdalemuir	18.4	+4	-	0	b	50	85	45	7	5	3	-	1	1	3500	1	*	62	38	29	Tr	-	6.1
Point of Ayre	18.2	+8	NW'W	2	b	58	85	52	8	5	-	-	1	1	1500	0	2	65	52	*	-	-	12.4
Tiree	17.9	+4	-	0	bc	54	85	48	8	1	3	6	1	4-6	3500	0	2	59	49	*	-	-	16.0
Stornoway	17.8	0	-	0	bc	53	92	50	8	2	4	-	1	2-3	3500	1	1	58	45	*	1	-	3.7
Dalwhinnie	18.1	0	N	1	bc	51	85	47	8	8	-	-	4-6	4-6	1500	1	*	57	40	32	-	0.3	1.3
Aberdeen †	17.3	+4	NNW	2	c	54	85	50	8	9	-	-	7-8	7-8	1800	1	2	61	49	44	-	-	10.(4)
Wick	17.2	+6	NNW	2	c	52	85	48	8	8	-	-	9+	9+	3000	0	*	59	46	43	Tr	-	*
Sumburgh	15.7	+6	NNW	3	c	53	75	45	8	5	-	-	9+	9+	2800	0	3	58	50	48	-	-	4.2
Blacksod Point	19.0	0	S	1	c	57	85	53	8	8	-	-	9+	9+	1500	1	1	59	49	*	3	1	*
Malin Head	17.7	-2	W'S	1	c	54	85	50	8	2	2	-	2-3	7-8	2500	1	2	59	42		-	-	11.1
Aldergrove	18.9	+2	W	1	c	53	85	49	8	1	3	1	1	7-8	3000	1	*	65	39	35	*	-	10.6
Birr Castle	19.3	+8	WSW	1	c	56	92	54	8	8	2	2	7-8	10	1500	0	*	63	52	48	Tr	Tr	0.5
Valentia Obsy.	20.5	+6	S'E	2	c/r	56	92	54	8	5	7	-	7-8	9+	2500	1	2	59	51	45	3	Tr	0.9
Roches Point	20.0	+10	NNW	2	bc	54	92	52	8	5	3	-	1	4-6	2500	1	2	59	53	*	4	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 11th July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 12th July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	82	51756	30287	8-	02865	30415	5-	02857	28227	8-	02967	29227
115	53	02844	04286	84	02844	30225	84	02844	32125	84	02854	20225
203							13	01953	04313	25	01951	16114
206	8-	25866	32286	83	02965	32225	5-	00963	00013	8-	01863	28113
210	86	02855	26386	57	02845	31368	5-	02735	30327	80	01863	27213
220	70	01953	28313	70	01953	29403				13	01952	21203
230	84	01963	24313	86	01963	26313	56	00952	22203	53	00931	00023
245	20	01554	32414	86	02966	32417	53	01953	31214	50	00953	32203
260	8-	02864	26215	8-	25865	06285	57	01753	20113	80	01764	22114
278	84	00962	28413	20	00951	27501	40	00852	28302	13	01943	26323
279	83	02864	20326	83	02865	23226	43	01863	04315	00	00890	04101
285												
288	8-	05666	01326	56	01763	01313	5-	05667	24127	5-	05673	30327
578	27	02954	30327	87	02954	30427	57	02867	00027	5-	02967	00027
301	24	00962	28522	20	00961	26501	50	01844	28414	23	00853	28313
321	20	01865	29425	8-	02868	29388	4-	25664	28184	53	05664	28215
299							44	01763	30304			
292	8-	02756	28326	26	02752	28225	50	00763	27213	53	02765	30227
310												
614	26	05565	24426	76	05664	30385	24	05590	00013	07	05590	26101
333	24	01964	30325				04	01890	06113	24	00962	32113
334	--	03646	28228									
340	83	02965	28327	20	00962	29302				56	00281	05347
136	77	02855	30587	46	01974	31384	93	01890	28314	5-	22858	29368
336	57	02756	28528	24	01752	28513						
350	83	02754	26327	86	00771	26312	50	05661	21211	04	05690	23213
368	86	01954	22415	13	01952	24514	54	00851	24112	03	01890	24114
379	23	02955	28417	26	01954	28414	00	00790	30300	80	00990	30302
390	86	10445	24485	86	05634	27385	00	05590	24110	50	05671	26302
388	8-	25868	28388	96	05664	28385	00	00890	30200	08	00890	28101
438	8-	02745	22415	20	01764	22314				44	01742	02313
430	86	02867	26328	87	02865	26226		01890	02313	08	01890	02313
409	24	02944	26324	87	02945	26327		02844	28165	27	49943	03167

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........................
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	cir₀cy	cybcy	cbm₀zw
Croydon	cpr₀c	bcbc	cir₀bmwb
Greenwich	cp₀c	bcy	bcbc
Camden Square	c	c	*
Kensington	bc	bc	*
Hampstead	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0.1 Time 9-14h 11th. Min. <0.1 Time 15-18h 11th.

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	65	50	36	Tr	Tr	5.9	*	*
Croydon	65	47	43	Tr	Tr	5.8	*	*
Greenwich	67	48	34	Tr	-	6.1	51	58
Westminster	67	50	49	-	-		67	65
Regents Park								
Camden Square	66	51	45	Tr	-	*	*	93
Kensington	66	49	39	0.1	-	*	75	58
Hampstead	66	54	53	-	-	*	*	67

BRITISH SECTION

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

~~SECRET~~

Monday 13th July 1942

No. 29453

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)	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)	19·0	+4	-	0	c	66	45	45	8	8	-	-	7·8	7·8	2500
	Croydon ...	18·8	+6	NNW	2	bc	67	55	51	8	2	-	-	7·8	7·8	2700
	S. Farnborough	19·0	+6	NW	3	bc	66	45	44	9	2	-	-	7·8	7·8	4000
	Boscombe Down	19·3	+2	N	3	bc	67	45	46	9	2	-	-	4·6	4·6	4000
	Thorney Island	18·8	+4	NW	3	c	70	45	51	9	2	-	-	7·8	7·8	4000
	Lympne ...	19·4	+8	NW	2	c	63	55	48	8	2	6	-	7·8	7·8	4000
	Manston ...	18·8	+12	NNW	2	c	61	85	55	8	7	-	-	9+	9+	3500
2	Shoeburyness ...	19·1	+8	NW'N	3	c	64	65	50	8	7	-	-	9	9+	2500
	Felixstowe ...	18·6	+14	NW'W	3	c	62	65	50	8	8	-	-	9+	9+	2500
	Gorleston ...	18·1	+16	NW	4	c	58	65	48	7	8	-	-	9+	9+	1400
	Mildenhall ...	18·6	+10	N	3	c	61	65	49	8	5	-	-	9+	9+	3000
	Cranwell ...	18·7	+8	NNW	2	c	63	55	48	7	8	-	-	7·8	7·8	3500
3	Birmingham ...	18·8	+6	NW	2	c	66	45	45	8	8	-	6	7·8	7·8	4000
	Upper Heyford	18·5	+2	WNW	2	c	63	55	48	7	8	-	-	9	9	5000
4	Ross-on-Wye	19·2	+4	NNW	3	bc	69	45	47	9	1	-	-	4·6	4·6	4000
5	Hartland Point	20·4	+8	WNW	2	bc	62	75	55	8	2	4	-	2·3	4·6	2500
	Bristol ...	20·3	+6	NNW	2	c	64	55	46	8	1	-	-	7·8	7·8	4000
	Portland Bill ...	19·9	+10	WSW	2	bc	61	85	58	8	2	-	-	4·6	4·6	4000
	Plymouth ...	20·5	+8	WNW	1	c	59	85	55	8	8	-	-	9	9	4000
	The Lizard ...	20·9	+6	-	0	c	58	92	56	8	8	6	-	7·8	9	1500
	Scilly (St. Mary's)	21·2	+16	NW	2	bc	64	75	55	8	8	4	-	4·6	4·6	1500
	Guernsey ...															
6	Pembroke ...	20·9	+10	NW	3	bc	62	85	57	8	7	4	3	2·3	4·6	4000
7	Holyhead (Valley)	20·6	+8	WNW	3	bc	64	55	47	9	2	4	1	1	2·3	3500
	Chester (Sealand)	19·9	+8	NW	4	b	63	45	44	8	8	4	-	Tr	1	3000
8	Manchester ...	19·1	+8	NW	3	zo	62	65	51	6	2	6	-	4·6	9	2500
10	Spurn Head ...	18·6	+14	N	5	bc	61	65	48	7	2	4	-	2·3	4·6	2500
	Catterick ...	18·2	-2	NW	2	c	65	55	47	7	7	-	-	7·8	7·8	2500
	Tynemouth ...	19·0	+6	NE	3	bc	57	85	51	7	2	3	-	2·3	2·3	2800
11	St. Abbs Head	17·5	0	NNE	1	bc	59	75	49	8	2	4	-	2·3	2·3	3500
	Leuchars ...	16·9	-2	SE	2	bc	65	65	54	9	1	3	9	4·6	4·6	4000
12	Renfrew (Abbotsl.)	17·7	0	W'N	3	bc	66	45	45	9	1	-	5	4·6	4·6	3500
	Eskdalemuir ...	17·3	0	SSW	3	bc	64	55	48	8	7	3	-	4·6	7·8	3500
	Point of Ayre ...	19·8	+8	NW'W	3	b	65	75	55	8	1	-	4	Tr	1	3000
13A	Tiree ...	17·8	-4	ESE	4	bc	61	75	54	9	8	-	5	4·6	4·6	3500
13B	Stornoway ...	15·5	-18	SSE	4	bc	59	75	51	9	1	6	8	2·3	4·6	3000
15	Dalwhinnie ...	17·5	0	W	1	bc	65	55	48	8	7	-	1	4·6	4·6	2500
	Aberdeen ...	17·3	0	N'E	2	bc	61	65	48	9	7	-	-	2·3	2·3	2700
	Wick ...	17·0	-2	SE	1	bc	57	65	46	9	5	-	4	4·6	7·8	3000
16	Sumburgh ...	16·1	0	NNW	3	c	56	65	44	9	5	-	-	9+	9+	3000
17	Blacksod Point	18·9	-2	SWS	8	c	60	92	58	8	9	-	-	10	10	1500
18	Malin Head ...	18·0	-6	S'W	2	bc	60	65	48	8	2	-	1	4·6	4·6	2500
	Aldergrove ...	19·2	-4	S'W	2	bc	62	55	47	9	7	-	2	4·6	7·8	2500
19	Birr Castle ...	20·4	-2	WSW	1	c	65	65	53	8	8	1	-	7·8	10	1500
20	Valentia Obsy.	20·9	+6	S	3	c	62	85	57	8	5	-	-	9	9	1500
	Roches Point	21·2	+10	SW	2	c	58	85	53	8	8	-	-	9	9	2500

OBSERVATIONS at 18h. 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)	19·5	+2	NNW	1	bc	67	45	47	8	1	3	-	Tr	2-3	2500	1	*
	Croydon ...	19·2	+4	NNW	2	c	65	55	51	8	1	3	-	Tr	4-6	2500	0	*
	S. Farnborough	19·3	+4	NNW	2	bc	65	55	47	8	2	3	-	Tr	7-8	4000	0	*
	Boscombe Down	19·5	+2	E	2	c	65	65	51	8	2	6	4	2-3	9	4000	0	*
	Thorney Island	19·2	+2	WSW	3	c	64	65	52	9	8	6	-	4-6	9	4000	0	*
	Lympne ...	20·0	+6	SSE	1	c	61	75	53	8	2	6	*	7-8	7-8	4000	1	2
	Manston ...	19·4	+6	NNE	2	bc	62	75	55	7	5	4	-	4-6	4-6	3100	0	*
2	Shoeburyness ...	19·2	+2	N	3	bc	65	55	51	8	2	-	-	2-3	2-3	2500	1	*
	Felixstowe ...	19·0	+4	N'W	2	bc	64	65	50	8	7	-	-	4-6	4-6	2500	1	2
	Gorleston ...	18·8	+2	N'W	3	bc	61	85	59	8	1	-	*	2-3	2-3	3000	0	3
	Mildenhall ...	18·8	-2	NW	2	b	65	55	49	8	1	-	-	Tr	Tr	3000	0	*
	Cranwell ...	18·3	0	W	2	zo	65	65	52	6	4	-	-	4-6	4-6	4000	0	*
3	Birmingham ...	18·4	-2	WNW	2	bc	68	45	46	8	8	-	1	4-6	4-6	4000	1	*
	Upper Heyford	19·0	0	SW	1	bc	66	55	49	7	1	3	-	Tr	2-3	5700	0	*
4	Ross-on-Wye	18·8	0	SW'W	3	c	66	55	49	9	7	-	1	4-6	7-8	4000	0	*
5	Hartland Point	20·8	0	WNW	3	bc	60	85	54	8	1	-	5	1	4-6	2500	0	3
	Bristol ...	20·4	+4	W'N	4	bc	66	55	50	8	1	4	6	Tr	4-6	4000	0	*
	Portland Bill ...	20·3	+2	W	2	bc	61	85	58	8	2	-	-	4-6	4-6	4000	1	3
	Plymouth ...	21·0	0	SW'S	2	c	62	75	56	8	8	4	1	4-6	7-8	5000	0	2
	The Lizard ...	21·2	+4	WNW	2	bc	63	75	54	8	2	4	-	4-6	4-6	2600	0	2
	Scilly (St. Mary's)	22·0	+4	WNW	2	bc	64	75	56	8	8	3	4	2-3	4-6	1500	0	2
	Guernsey ...																	
6	Pembroke ...	21·2	0	WNW	2	bc	61	85	56	8	7	4	1	2-3	4-6	3500	0	1
7	Holyhead (Valley)	20·3	-2	SW	3	b	60	75	50	9	1	4	-	Tr	1	3500	0	3
	Chester (Sealand)	19·5	-2	NW'W	3	bc	61	55	46	9	8	-	6	Tr	4-6	3000	0	*
8	Manchester ...	19·2	0	WNW	4	bc	63	55	46	9	-	-	2	0	2-3	-	0	*
10	Spurn Head ...	18·5	0	NNE	3	b	59	65	48	7	-	-	-	0	0	-	0	3
	Catterick ...	17·9	0	WNW	3	bc	67	55	50	7	1	-	1	1	7-8	3000	0	*
	Tynemouth ...	18·7	-4	SE	3	bc	56	85	50	8	2	3	-	2-3	2-3	2800	0	3
11	St. Abbs Head	16·4	-4	SE	3	bc	56	85	52	8	2	4	-	2-3	2-3	3500	0	3
	Leuchars ...	15·6	-10	SSW	3	bc	67	55	52	9	5	4	8	2-3	2-3	4000	0	*
12	Renfrew (Abbotsl.)	17·2	-4	WSW	3	bc	65	55	48	9	1	3	9	1	4-6	3500	0	*
	Eskdalemuir ...	16·4	-4	SW	4	bc	64	55	48	8	7	3	5	4-6	4-6	3500	1	*
	Point of Ayre ...	19·2	-4	WNW	4	b	64	55	49	8	-	-	5	0	1	-	0	2
13A	Tiree ...	16·1	-12	SSW	4	c/r	55	92	53	7	5	-	-	9+	9+	2500	1	3
13B	Stornoway ...	15·4	0	SSW	6	rr	55	85	51	8	5	7	-	7-8	9+	2500	1	4
15	Dalwhinnie ...	16·1	-4	W	1	bc	59	55	48	8	4	-	2	2-3	4-6	2500	0	*
	Aberdeen ...	16·6	-10	SSE	3	b	56	65	47	8	8	-	-	Tr	Tr	2700	0	2
	Wick ...	15·2	-16	ESE	2	bc	55	75	47	9	1	3	6	1	4-6	4000	0	*
16	Sumburgh ...	14·9	-12	WSW	2	bc	55	75	48	9	5	4	4	2-3	2-3	3000	0	3
17	Blacksod Point	17·9	-8	SW	3	c	61	85	56	8	5	3	-	7-8	9+	1500	0	3
18	Malin Head ...	16·8	-10	ESE	1	bc/r	57	75	49	8	2	2	-	4-6	4-6	2500	0	2
	Aldergrove ...	18·2	-10	SW	2	c	62	65	52	8	7	-	-	9	9+	3500	1	*
19	Birr Castle ...	19·5	-2	SSW	2	c	65	75	57	8	5	2	-	7-8	10	2500	0	*
20	Valentia Obsy.	20·9	0	SW	3	c/d	60	92	58	8	5	-	-	9+	9+	1500	1	3
	Roches Point	21·2	0	SW	3	c	59	85	54	8	5	-	-	9+	9+	2500	1	2

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 12th (39)	Weather. 13h.—18h. 12th (40)	Weather. 18h. 12th to 1h. 13th (41)	Weather. 1h.–7h. 13th (42)
1	London (Kew)	bccy	cbcby	bybw	bbcmow
	Croydon ...	bmoczo	bcycy	bcbmow	bmowbc
	S. Farnborough	bbcy	bccbcy	bcyb	bbcwbc
	Boscombe Down	bbcy	bcyc	cbc	bcb≡F
	Thorney Island	bcyV	cyVc	cbcb	bcmobc
	Lympne ...	bbccy	cbcyc	cbmow	bmowbmo
	Manston ...	bmobcc	cbcb	bcbmo	bmowbmo
2	Shoeburyness ...	bmobcc	cbcy	bcybmo	bmo
	Felixstowe ...	c	cbc	bbcbbw	bwbmo
	Gorleston ...	c	bc	bcbzo	bczo
	Mildenhall ...	bmocmoc	cbcb	b	bbccmow
	Cranwell ...	cmoc	cbczo	bcbmo	bmobcmo
3	Birmingham ...	bbc	cbc		bbc
	Upper Heyford	bwbcc	cbczo	bcybmo	bbcmow
4	Ross-on-Wye	bbcvy	bcycy	bcvb	bccbc
5	Hartland Point	cbc	bc	bc	bcc
	Bristol ...	cbbcyv	bcy	bcbmo	cmwc
	Portland Bill ...	cbc	bcbc	b	bcc
	Plymouth ...	c	cbcc	b	bwbbcmo
	The Lizard ...	c	bc	bcw	bcc
	Scilly (St. Mary's)	cbc	bc	bccbc	bcc
	Guernsey ...				
6	Pembroke ...	cbc	bc	bccw	cirb
7	Holyhead (Valley)	bwbvy	bv	c	c
	Chester (Sealand)	by	by	bycmocw	c
8	Manchester ...	bczo	bcby	bbc	bcomo
10	Spurn Head ...	bc	b	b	c
	Catterick ...	cbcc	cbcby	bbcc	cirbc
	Tynemouth ...	cbc	bc	bcmoc	c
11	St. Abbs Head	cbc	b	bcc	crbc
	Leuchars ...	bbcbbc	bcbcy	ccfrbc	idomoc
12	Renfrew (Abbotsl.)	bbc	bcy	cfrbc	crbcomo
	Eskdalemuir ...	bcy	bcy	bcciro	cirbr
	Point of Ayre ...	cbcb	by	ibc	cirb
13A	Tiree ...	bc	cfrrr	oir	oirc
13B	Stornoway ...	bccbc	bccrr	ocir	cirdd
15	Dalwhinnie ...	bcy	bcy		bcpr
	Aberdeen ...	cb	bcb	pbc	cprro
	Wick ...	c	bcb	bccirbc	crrc
16	Sumburgh ...	c	c,bc,b	b,cirbc	cirrorcmo
17	Blacksod Point	c	c	d	d
18	Malin Head ...	bc	r	r	pr
	Aldergrove ...	bcbcy	bcyc	ccprbc	cirbrrc
19	Birr Castle ...	c	r		r
20	Valentia Obsy.	d	d	d	r
	Roches Point	bc	c	f	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 13th July, 1942.

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Moderate Southwest to West wind; mainly fair but slight showers locally this evening: average temperature.
5 S.W. England 6 South Wales	Moderate Southwest to West wind; cloudy; occasional slight rain or drizzle; some coast and hill fog: average temperature.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Moderate Southwest to West wind; cloudy with rain or drizzle at first; bright periods and showers later: average temperature.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate or fresh Southwest to West wind; variable cloud; some showers: average temperature.
16 Orkneys and Shetlands	Moderate South wind veering Southwest; much low cloud and rain or drizzle at first; bright intervals and showers later: average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 13A - 15.
19 S. E. Ireland	As 7 - 12.
20 S. W. Ireland	As 13A - 15.

GENERAL INFERENCE

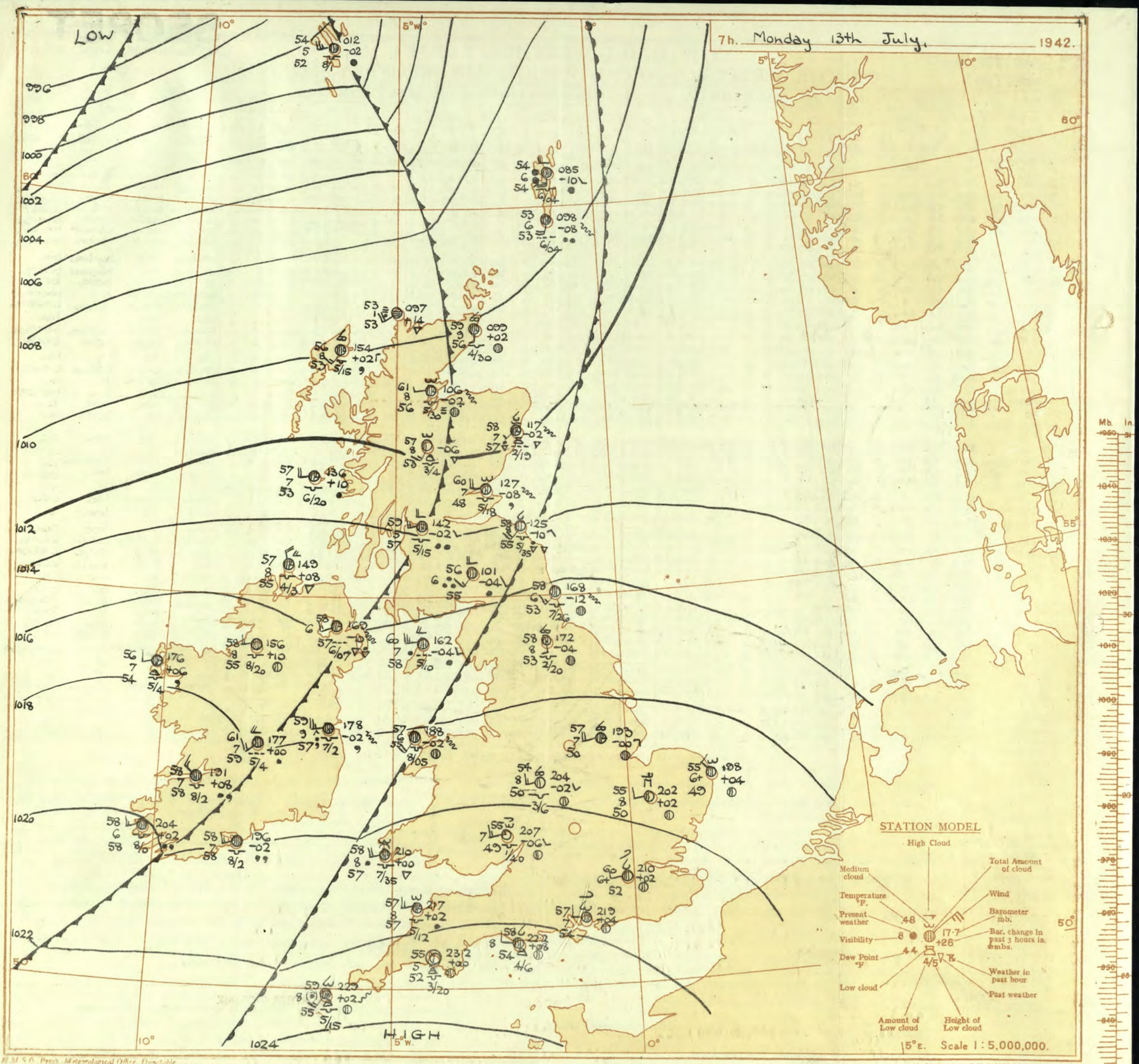
Pressure is high from the Azores to the Bay of Biscay. A deep depression over Iceland is moving slowly east-northeast and a trough of low pressure from Northeast Scotland to west of Scilly is moving southeast. There will be occasional rain or showers in most areas but the falls will be very slight in the Southeast.

FURTHER OUTLOOK

Occasional rain in the Northwest; fair in the Southeast.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director,
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press Meteorological Office, 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 13th July 1942.

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.

Page 4. BRITISH SECTION

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

Monday 13th July 1942

No. 29452

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)	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	*	*	*	*	*	55	*	*	*	*	*	*	*	*	*
	Croydon	290	21·1	+6	S	1	z0	49	97	48	6	-	-	-	0	0	-
	S. Farnborough	226	21·6	+8	-	0	b	51	92	49	7	-	4	-	0	Tr	-
	Boscombe Down	417	22·2	+6	WNW	2	bc	51	92	50	7	5	-	6	Tr	4·6	4000
	Thorney Island	10	21·6	+6	NW'N	2	b	52	92	51	6	-	-	-	0	0	-
	Lympne	283	21·3	0	-	0	z0	51	97	51	6	-	-	-	0	0	-
	Manston	154	21·0	+4	WSW	3	z0	53	97	53	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	20·0	0	WSW	2	b	57	85	53	7	-	-	-	0	0	-
	Gorleston	5	20·3	0	W'N	2	z0	51	85	47	6	-	-	-	0	0	-
	Mildenhall	15	20·2	+2	SW'W	2	b	51	92	49	7	-	-	-	0	0	-
	Cranwell	203	20·1	+2	W'S	3	z0	50	85	47	6	-	-	-	0	0	-
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·1	+8	WSW	1	z0	52	92	49	6	5	-	-	1	1	5700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	22·0	0	WSW	3	bc	57	92	54	8	4	-	-	2-3	2-3	2500
	Bristol	209	22·3	+6	-	0	z0	53	92	51	6	-	-	-	0	0	-
	Portland Bill	32	22·0	+8	W	2	b	58	97	56	8	-	-	-	0	0	-
	Plymouth	82	23·3	+6	-	0	b	51	97	51	8	5	-	-	1	1	4000
	The Lizard	240	23·2	+6	-	0	bc	54	97	54	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	23·4	+2	SW'W	2	bc	55	92	52	8	5	4	3	1	2-3	1500
	Guernsey	175															
6	Pembroke	142	22·0	0	W'S	3	c	57	97	56	8	5	-	-	9+	9+	4000
7	Holyhead (Valley)	32	20·1	-4	SSW	3	c	57	85	52	8	5	-	-	10	10	3800
	Chester (Sealand)	16	20·1	-4	-	0	c	52	92	50	7	5	7	-	4-6	9+	5700
8	Manchester	235	20·4	-2	SSE	2	bc	51	85	46	6	5	-	-	7·8	7·8	2500
10	Spurn Head	29	19·4	0	WSW	3	b	54	85	48	7	-	-	-	0	0	-
	Catterick	175	19·2	+2	-	0	c	51	85	46	8	-	3	-	0	7·8	-
	Tynemouth	108	18·5	-2	W	3	c	54	75	47	7	5	-	-	7·8	7·8	2500
11	St. Abbs Head	280	15·6	-8	WSW	3	c	56	75	48	7	5	4	-	7·8	9	4000
	Leuchars	36	15·1	-10	W	2	c/r	55	85	52	8	5	7	-	4-6	10	550
12	Renfrew (Abbots I.)	19	15·9	-12	WSW	1	c	58	85	53	7	5	-	-	10	10	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	18·2	-2	SW'W	2	c	59	75	51	8	-	7	-	0	9+	-
13A	Tiree	22															
13B	Stornoway	80	15·5	0	SSW	6	ir	56	97	56	7	6	2	-	7·8	10	1000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	13·7	-18	SSE	1	c	52	97	51	9	-	7	-	0	9+	-
	Wick	114	11·7	-26	S'W	2	c	55	85	51	7	5	7	-	4-6	10	3000
16	Sumburgh	19	12·6	-14	SSW	3	c/r	51	85	48	8	5	7	-	7·8	9+	4000
17	Blacksod Point	18	16·9	-2	SW'S	3	DD	58	97	58	6	-	2	-	10	10	800
18	Malin Head	84	14·4	-6	SW	3	c	60	85	56	8	5	2	-	7·8	10	1500
	Aldergrove	268	17·0	-6	S	1	c	60	92	58	7	5	-	-	10	10	1600
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	20·7	-6	S'E	4	d0d0	58	97	57	6	5	-	-	10	10	150
	Roches Point	22	21·4	0	SW	3	f+	55	97	55	3	-	-	-	10	10	<150

OBSERVATIONS at 7 hr. G.M.T. 13th 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)	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 12th Hrs. (38)
London (Kew)	21·5	+4	SW	1	z0	56	85	50	6	-	5	1	0	7·8	-	1	*	68	51	37	-	Tr	9·1
Croydon	21·0	+2	SW	1	bc	60	75	52	6	-	4	4	0	7·8	-	0	*	69	49	46	-	Tr	10·5
S. Farnborough	21·5	0	W'N	2	bc	56	75	50	8	-	3	1	0	7·8	-	0	*	70	47	37	-	-	8·7
Boscombe Down	22·0	0	W'S	2	c/F	56	92	54	7	5	3	-	1	7·8	<150	0	*	69	48	39	-	Tr	8·7
Thorney Island	21·9	+4	W	1	bc	57	92	54	7	-	5	1	0	7·8	-	0	*	72	49	43	-	-	*
Lympne	21·6	+2	-	0	z0	57	85	52	6	-	-	1	0	Tr	-	1	§ 1	66	47		-	-	11·3
Manston	21·1	+2	W'N	2	z0	58	85	54	5	-	-	5	0	1	-	1	*	63	51	47	-	-	10·3
Shoeburyness	20·8	+4	W'S	2	bc	59	75	53	5	-	3	5	0	2-3	-	0	*	68	52	44	Tr	-	12·0
Felixstowe	20·2	+4	W	1	z0	58	85	52	6	-	7	*	0	2-3	-	0	2	66	53	48	Tr	-	8·4
Gorleston	19·8	+4	NW'W	2	z0	55	85	49	6	-	3	-	0	7·8	-	0	2	61	48	46	-	-	4·7
Mildenhall	20·2	+2	WSW	2	z0	55	85	50	8	-	8	2	0	7·8	-	0	*	65	47	40	-	Tr	7·8
Cranwell	19·3	0	WSW	4	c	57	75	50	7	-	7	-	0	9	-	0	*	*	48	42	-	-	7·3
Birmingham	20·4	-2	WSW	3	bc	54	85	50	8	5	7	-	2-3	4-6	4000	1	*	69	48	33	-	-	10·7
Upper Heyford	20·6	-2	SSW	3	c	55	75	49	8	-	3	9	0	9+	-	0	*	66	47	39	-	-	*
Ross-on-Wye	20·7	-6	SW	3	b	55	85	49	7	5	3	3	Tr	1	4000	0	*	71	45	38	-	-	11·2
Hartland Point	21·7	+2	SW	3	c	57	97	57	8	5	3	-	7-8	9	1200	0	3	63	56	52	-	-	10·8
Bristol	22·3	-2	SW'W	2	bc	58	75	54	7	2	3	-	2-3	4·6	2500	0	*	69	52	41	-	-	1·0
Portland Bill	22·2	+8	W	2	c	58	85	54	8	2	4	-	4-6	7·8	4000	1	3	61	56	*	-	-	*
Plymouth	23·2	0	-	0	z0	55	92	52	5	8	-	-	2-3	2-3	2000	0	1	63	45	40	-	-	6·3
The Lizard	23·1	+4	WSW	2	bc	58	97	58	8	8	6	-	1	2-3	2500	0	3	64	53	*	-	-	3·9
Scilly (St. Mary's)	22·9	+2	SW'S	3	cjp	59	85	55	8	8	5	-	7-8	9+	1500	0	2	65	54	*	-	-	12·6
Guernsey																							
Pembroke	21·0	0	SW'W	4	ir0	58	97	57	8	5	6	-	9+	9+	3500	0	2	62	51	*	-	Tr	6·0
Holyhead (Valley)	18·8	-2	S'W	4	z0	57	92	55	6	5	-	-	10	10	500	0	2	65	56	53	-	-	*
Chester (Sealand)	18·3	-6	WSW	2	c	61	75	54	7	5	7	2	1	7·8	1600	0	*	64	49	37	-	-	15·1
Manchester	19·0	-2	S'E	3	z0	55	85	51	6	5	7	-	2-3	9+	5700	0	*	67	49	38	-	-	*
Spurn Head	19·1	0	WSW	3	bc	56	75	49	7	7	3	4	2-3	7·8	2500	0	3	62	53	*	-	-	9·9
Catterick	17·2	-4	S	2	c	58	85	53	8	5	7	-	1	9	2000	1	*	69	50	40	-	Tr	10·7
Tynemouth	16·8	-12	SW	3	c	58	85	53	6	5	-	-	9+	9+	2600	0	3	60	52		-	-	*
St. Abbs Head	12·9	-10	SW	4	c/pr	57	92	55	8	5	4	-	7·8	7·8	3500	1	4	65	52	*	-	0·5	*
Leuchars	12·7	-8	W	4	c	60	92	58	7	5	3	-	7·8	7·8	1800	1	*	69	55	51	-	Tr	14·9
Renfrew (Abbots I.)	14·2	-2	WSW	3	c/r	59	97	57	5	5	2	-	7·8	10	1500	1	*	68	57	54	-	3	13·7
Eskdalemuir	10·1	-4	SW'S	3	rr	56	97	55	6	-	2	-	10	10	200	1	*	66	51	49	-	1	9·5
Point of Ayre	16·2	-4	W	5	ir0	60	92	58	7	6	2	-	7·8	10	1000	1	4	66	57	*	-	1	14·0
Tiree	13·6	+10	WSW	4	c	57	92	53	7	5	-	-	9	9	2000	1	4	61	54	*	0·6	9	7·1
Stornoway	15·4	+2	SSW	3	c	56	92	53	8	5	7	-	7·8	9+	1500	1	1	61	53	*	Tr	2	8·9
Dalwhinnie	11·9	-6	SSW	3	bc	57	85	53	8	8	3	-	2-3	4·6	1500	1	*	66	52	50	-	5	10·4
Aberdeen †	11·7	-2	SW'W	1	pr	58	97	57	7	9	9	-	1	9	1900	1	1	64	52	48	-	2	8·1
Wick	09·9	+2	S	1	c	59	92	56	9	5	7	6	4-6	9	3000	1	*	58	52	50	-	3	*
Sumburgh	09·8	-8	S'W	4	c/r	53	97	53	6	6	2	-	9	10	400	1	4	58	50	43	-	1	3·5
Blacksod Point	17·6	+6	WSW	2	c	56	92	54	7	8	-	-	7·8	9+	1500	1	2	63	55	*	Tr	4	*
Malin Head	14·9	+8	NW	4	c	57	92	55	8	5	2	-	4-6	9+	800	1	3	64	55		Tr	3	7·5
Aldergrove	16·9	-10	SW	3	c/r	58	97	57	6	6	-	-	9	9+	700	1	*	66	57	56	-	7	9·8
Birr Castle	17·7	0	SSW	3	c	61	92	59	7	6	2	-	7·8	10	1500	0	*	67	58	56	0·1	0·2	0·4
Valentia Obsy.	20·4	+2	W'N	3	c/r	58	97	57	6	5	-	-	10	10	<150	1	2	65	57	47	Tr	7	1·6
Roches Point	19·6	-2	SW	3	c/d	58	97	57	7	5	-	-	10	10	450	1	3	63	(56)	*	-	0·2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 12th July ... 18h. G.M.T. — 01h. G.M.T. 13th July ... 07h. G.M.T.

III	$C_L C_M$ (13h)	$wwVhN_h$ (13h)	DDFWN (13h)	$C_L C_M$ (18h)	$wwVhN_h$ (18h)	DDFWN (18h)	$C_L C_M$ (01h)	$wwVhN_h$ (01h)	DDFWN (01h)	$C_L C_M$ (07h)	$wwVhN_h$ (07h)	DDFWN (07h)
109	40	02865	01115	53	01963	14214	52	02764	15368	53	02746	17167
115	54	02954	20325	54	02953	20325	52	81834	20487	5-	67109	20485
203												
206	10	01963	08314	13	02961	12316	5-	02966	22426	53	09865	22126
210	20	00962	32202	10	01962	07314	5-	02865	16326	57	01962	20384
220	73	01954	21315	52	64646	17468				52	03735	21458
230	10	02962	18315	17	02951	20217	62	52645	18168	52	02746	20368
245	70	01964	14314	70	00861	14313	5-	61767	24127	57	02845	22165
260	20	01755	26115	74	01862	23313	53	02766	24368	57	01764	03165
278	20	01951	30204	13	02961	18217	57	02854	18368	52	65664	22368
279	20	01864	22414	40	00961	21402	57	22884	18367	62	53634	51468
285												
288	5·	05651	05321	10	01762	02215	07	02790	16317	57	02864	16326
575	5-	02867	00027	57	21857	20258	52	02746	18128	5-	21736	24356
301	10	00863	26313	10	00961	26403	5-	02858	24318	57	02865	22427
321	20	01864	27314	86	02764	26328	50	00662	22102	54	05665	22327
299	50	01762	30302	80	00761	30301	50	00-62	24202	57	02764	22315
292	8-	01864	27214	24	02963	24216	50	01864	00004	55	05584	15127
310										--	02426	24326
614	7r	05664	30124	26	05663	28223	04	05590	22102	07	05590	20126

13h. G.M.T. 12th July ... 18h. G.M.T. — 01h. G.M.T. 13th July ... 07h. G.M.T.

III	$C_L C_M$ (13h)	$wwVhN_h$ (13h)	DDFWN (13h)	$C_L C_M$ (18h)	$wwVhN_h$ (18h)	DDFWN (18h)	$C_L C_M$ (01h)	$wwVhN_h$ (01h)	DDFWN (01h)	$C_L C_M$ (07h)	$wwVhN_h$ (07h)	DDFWN (07h)
333	13	00963	28203	40	00961	28201	57	02874	00067	54	02737	20328
334										--	51537	24228
340	23	02965	31315	20	00962	31313	03	02890	16115	13	02961	16216
136	74	02856	02426	00	00890	06310	00	00790	22110	08	05690	23215
336										57	02755	32328
350	8-	02757	31327	26	05663	22113	00	05690	21110	57	05671	21215
368	26	00862	22313	24	01961	24314	50	01863	26213	53	01855	23315
379	23	01954	32215	83	01854	04115	50	00762	28302	53	05865	20215
390	2-	02766	30326	40	01764	26214	00	05690	0010	55	08472	24215
382	2-	01865	00015	07	01890	00024	04	05690	00001	05	05690	20125
438	25	02855	22325	87	02854	22316	00	05690	24300	04	01790	22214
430	2-	01965	00015	86	02875	22326	00	05690	00000	03	12790	22115
409	23	02944	29226	28	01951	30351	04	00890	00002	53	02866	20247

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	bcy	cbcby	bybm10
Croydon	bm0cz0	bcycy	bcbwbe
Greenwich	cy	eby	bwbcy
Camden Square	bc	c	*
Kensington	bcc	c	*
Hampstead	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. Time: 0·1 0-7h 13th
Min. Time: <0·1 10-23h 12th

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	51	37	-	Tr	9·1	*	*
Croydon	69	49	46	-	Tr	10·5	*	*
Greenwich	69	51	35	-	-	8·9	55	53
Westminster	70	51	47	-	-	*	60	67
Regents Park	70	52	45	-	-	*	51	59
Camden Square	70	52	45	-	-	*	*	53
Kensington	68	50	41	-	-	*	51	59
Hampstead	68	50	41	-	-	*	*	63

SECRET

Page 1 BRITISH SECTION

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

Tuesday 14th July 1942

No. 29454

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)	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)	20.6	-4	WSW	3	c	67	55	53	8	8	3	-	9	9+	4000
	Croydon	20.8	-4	WSW	3	c	68	65	54	8	7	-	-	7-8	9+	2600
	S. Farnborough	21.0	-4	SW	4	c	68	55	49	9	7	7	-	9	9+	2500
	Boscombe Down	21.4	-4	W'S	4	c	66	65	53	9	8	7	-	7-8	9+	2500
	Thorney Island	21.8	-4	SW	4	c	69	55	50	9	2	4	3	4-6	7-8	4000
	Lympne	21.4	-2	WSW	4	c	70	45	48	8	2	3	-	4-6	7-8	5000
	Manston	20.4	-2	SW'W	3	bc	71	65	57	8	2	3	4	4-6	7-8	3000
2	Shoeburyness	20.2	-8	W'S	4	bc	73	45	50	8	1	3	4	Tr	7-8	4000
	Felixstowe	19.3	-2	W	4	c	73	45	52	7	1	7	2	2-3	9	4000
	Gorleston	19.7	0	W	3	c	69	55	52	7	1	-	4	4-6	7-8	3500
	Mildenhall	19.2	-6	SW	3	c	69	55	51	8	1	7	-	4-6	9+	2500
	Cranwell	17.6	-8	WSW	4	c	72	55	56	7	5	7	-	7-8	9+	3000
3	Birmingham	19.2	0	WSW	3	c	65	75	57	8	5	7	-	9	9+	2500
	Upper Heyford	19.7	-6	WSW	4	c	66	65	54	7	5	7	-	7-8	10	2800
4	Ross-on-Wye	19.9	0	SW	4	c	63	75	56	7	5	-	-	10	10	2500
5	Hartland Point	20.7	-6	SW	4	c	58	97	58	8	5	2	-	7-8	10	1500
	Bristol	21.7	+4	W'S	3	c	66	75	56	8	7	9	9	4-6	7-8	2500
	Portland Bill	23.1	+6	SW	3	c	60	85	56	8	2	4	-	4-6	7-8	4000
	Plymouth	23.2	-2	SW	4	c	61	92	58	7	5	7	-	9	10	900
	The Lizard	23.1	0	SW	4	o/d	61	92	59	8	5	-	-	10	10	1500
	Scilly (St. Mary's)	22.8	+2	SW	4	d.d.	60	97	59	5	5	-	-	10	10	200
	Guernsey															
6	Pembroke	20.7	-2	SW	4	z.	59	97	59	7	5	-	-	10	10	600
7	Holyhead (Valley)	18.6	+2	SW	3	c	59	97	58	7	5	-	-	2-3	10	200
	Chester (Sealand)	18.1	+2	SW	1	ir.	63	92	61	7	6	2	-	9	10	1200
8	Manchester	18.2	+2	SW	3	ir.	61	92	59	6	6	2	-	2-3	9+	500
10	Spurn Head	17.2	-10	WSW	4	z.	68	65	56	6	5	2	-	7-8	10	1500
	Catterick	16.4	-2	SW	3	c/r	64	85	59	7	5	7	-	7-8	9+	1700
	Tynemouth	16.4	+4	W	3	c	64	85	59	6	8	-	-	9+	9+	1800
11	St. Abbs Head	13.0	+2	W	3	c	65	75	56	8	5	4	-	7-8	7-8	4200
	Leuchars	12.9	+2	W	5	c	68	75	59	8	1	-	8	4-6	9+	2800
12	Renfrew (Abbots I.)	15.1	+6	NW	4	c	63	75	54	8	8	-	1	9+	9+	2000
	Eskdalemuir	15.0	+6	WNW	4	c	62	75	54	8	5	-	1	7-8	9	1500
	Point of Ayre	16.8	+2	W'N	3	c	62	85	59	8	5	7	-	7-8	9+	3000
13A	Tiree	14.1	+6	W'S	4	bc	61	85	56	7	8	-	-	4-6	4-6	2500
13B	Stornoway	15.4	+6	SW	4	c/pr	59	85	52	8	5	7	-	7-8	9+	2500
15	Dalwhinnie	13.9	+6	W	3	c	59	65	49	8	8	-	6	4-6	9	2500
	Aberdeen	11.5	+4	ESE	2	c	65	75	58	8	8	-	-	9+	9+	2400
	Wick	10.7	+6	WSW	2	c	65	65	51	9	8	7	1	9	9+	3500
16	Sumburgh	09.7	+4	SW'W	4	bc	57	92	55	8	5	4	-	2-3	2-3	900
17	Blacksod Point	18.4	+6	WSW	3	id.	59	85	54	7	8	2	-	2-3	9+	1500
18	Malin Head	15.7	+6	W'S	4	c	60	85	56	8	8	-	-	9	9	1500
	Aldergrove	17.0	+2	W	3	c	64	65	53	8	8	-	8	7-8	9	2000
19	Birr Castle	18.9	+2	SSW	3	c	66	65	53	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	21.7	+10	WNW	4	c	62	85	57	8	2	3	1	2-3	9+	2500
	Roches Point	29.8	+6	WNW	3	c/d	65	85	60	8	8	-	-	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 13th 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. 13th (39)	Weather 13h.–18h. 13th (40)	Weather 18h. 13th to 1h. 14th (41)	Weather 1h.–7h. 14th (42)
London (Kew)	19.4	-8	W'S	2	c	65	75	56	8	5	-	-	10	10	4000	1	*	bem.cy	cypr.c	crRr.	r.cr.c
Croydon	20.1	-4	SW	2	c	65	75	57	8	5	3	-	4-6	9+	2300	0	*	bez.c	c	ccpr.tc	r.r.id.
S. Farnborough	19.8	-6	WSW	3	c/pr	65	75	56	8	5	7	-	9	10	3000	0	*	becy	cypr.c	corrcr.r.c	cod.cm.
Boscombe Down	20.6	-4	SW'W	4	c	62	85	57	8	5	-	-	10	10	2000	0	*	bcc	cir.	cir.idm.	cidom.
Thorney Island	20.7	-2	SW	4	c	62	85	56	9	8	7	-	4-6	9+	2500	0	*	cbecy	c	tlRdo	dodbcbc
Lympne	20.6	-6	WSW	3	bc	64	65	51	8	-	5	1	0	7-8	-	0	§3	beye	beybe	pr.r.r.	r.r.rfr.f
Manston	19.6	-2	SW	3	c	69	75	60	8	5	3	1	7-8	9	5700	0	*	bm.bcz.bc	beye	crm.	crrdm.
Shoeburyness	19.3	-6	SW'W	3	c	70	65	55	9	5	3*	-	4-6	9+	4000	0	*	bm.bc		ctlRcm.	cm.
Felixstowe	18.4	-6	WSW	2	c	71	55	54	7	-	7	-	0	10	-	0	2	bbem.ccy	cyc	cyrrr.r.	cr.r.d.cm.
Gorleston	18.7	-4	WSW	2	c	65	65	54	7	5	7	-	4-6	9	2500	0	2	becy	cy	coir	oir.idcom
Mildenhall	18.1	-2	WSW	3	c	67	75	57	8	5	7	-	7-8	9+	3500	0	*	cm.cbecy	cycr.c	cir.cr.r.c	cidom.cm.
Cranwell	17.2	-6	W'S	3	r.r.	63	92	61	6	5	2	-	9	10	3000	1	*	ccz.	cirr.r.m.	cidoirfF	cm.bccm.
Birmingham	17.8	-10	SW	3	c	63	92	61	7	5	1	-	9	10	1500	1	*	bcc	pr.c	cir	cbcz
Upper Heyford	18.9	-2	SW	4	c	64	75	57	8	5	2	-	7-8	10	1500	0	*	cwbcc	ccir.c	dodoird.	cm.bc
Ross-on-Wye	18.7	-10	SW	3	c	63	85	57	7	5	1	-	9+	10	2500	0	*	bcc	pcp.c	irc	cb
Hartland Point	18.8	-16	SW	4	rr	58	97	58	5	5	-	-	10	10	500	1	4	circ	cidrro	orfc	cbcc
Bristol	20.9	-18	W	3	id.	61	97	60	6	6	2	-	9	10	1500	0	*	c	c,id.	cdoircm.	bcm.wb
Portland Bill	21.4	-12	SW	4	o	59	85	55	7	5	-	-	10	10	2500	1	3	c	co	orro	oc
Plymouth	21.8	-16?	WSW	3	c/r	59	97	59	6	5	-	-	10	10	200	1	3	bwmd.c	cid.r.r.m.	or.r.cm.	bbcm.cm.c
The Lizard	21.8	-6	WSW	3	rf	59	97	59	5	5	-	-	10	10	600	1	3	eddc	oidcf	rfrrcbc	bccw
Scilly (St. Mary's)	21.6	-10	WSW	4	df	60	97	59	2	-	-	-	10	10	450	1	3	p.d.d.	odfdf	odfcbc	bcc
Guernsey																					
Pembroke	19.3	-6	W'S	4	z.	58	97	58	7	5	-	-	10	10	450	1	2	ir.cm.	Feir.cm.	cbc	bc
Holyhead (Valley)	18.0	-6	SW	2	c	61	85	57	8	5	8	-	7-8	9	5000	1	2	cd.d.m.	c	c	b
Chester (Sealand)	17.3	-4	WNW	2	id.	65	85	59	7	8	-	-	4-6	10	1500	1	*	cidir	cir.r.r.m.	cidocm.	bcw
Manchester	17.0	-10	WSW	1	z.	62	92	59	5	5	3	-	4-6	10	1500	1	*	d.d.ir.ir.	rrr.r.	cbcm.	bcbm.w
Spurn Head	17.0	-2	SW	3	c	65	85	58	7	5	2	-	7-8	10	1500	1	3	cm.	cpr.	cm.	bc
Catterick	15.8	-6	W	3	c	65	75	57	8	5	7	1	7-8	9+	2000	1	*	oir.	cir.c	c	cbccw
Tynemouth	15.6	-2	W	4	c	66	65	55	7	8	2	-	7-8	9	2200	1	3	cm.oirc	c	c	cbc
St. Abbs Head	14.2	0	WNW	3	c	62	65	51	8	5	-	-	9	9	3500	0	3	cpr.c	c	c	bcc
Leuchars	13.2	+2	W	4	c	65	65	54	9	4	-	8	7-8	9	4000	0	*	cbcc	c	c	cbcc
Renfrew (Abbots I.)	15.1	0	WNW	3	c	61	75	52	8	8	-	-	9+	9+	2500	1	*	c	cpr.c	bcc	cir.bcc
Eskdalemuir	14.8	-4	W	3	c	62	55	45	7	7	3	6	1	9	2000	1	*	orrr.c	co	cyc	c
Point of Ayre	16.5	-8	W'N	3	c	65	65	54	8	1	3	5	Tr	7-8	3000	1	3	p.pr.c	c	cbc	bcbcuc
Tiree	14.3	0	W'S	4	c	57	85	53	7	5	-	-	9+	9+	2500	0	4	bc	c	c	cpr
Stornoway	10.6	+2	SW	5	c	57	85	50	8	5	7	-	7-8	9	2500	1	3	cpr	cpr.	cpr	cPR
Dalwhinnie	13.7	+2	W	3	c	55	75	46	8	5	3	-	7-8	10	2500	0	*	bcpr.c	co		opr.c
Aberdeen	12.8	+4	SE	1	c	62	75	58	8	8	2	-	9	9	2400	1	1	pr.bcc	c	c	c
Wick	11.5	+6	WSW	3	c	62	65	49	9	8	6	-	7-8	7-8	3000	0	*	c	c	c	cid.c
Sumburgh	10.4	+4	SW	4	c	56	85	53	7	5	5	-	4-6	9+	5000	1	4	cr.r.m.bc	bc,c	cbc	bc,c
Blacksod Point	18.3	0	W	3	bc	59	75	51	8	8	3	-	2-3	4-6	2500	0	3	d	bc	pr	pr
Malin Head	15.8	+2	W'N	4	c	58	85	53	8	8	-	-	9	9	2500	1	3	c	c	r	d
Aldergrove	16.9	0	W	4	c	60	65	50	8	8	8	-	9+	9+	3000	1	*	crc	ccyc	c	cid.c
Birr Castle	18.8	0	W	3	c	62	65	50	8	8	7	-	7-8	9+	1500	0	*	c	c		c
Valentia Obsy.	21.6	0	WNW	4	c	60	75	52	8	8	3	-	9	9+	4000	1	3	d	c	r	pr
Roches Point	19.6	0	NW	3	c	62	75	54	8	5	-	-	7-8	7-8	2500	1	2	d	c	bc	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 14th July, 1942.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands, 5 S.W. England, 6 South Wales	Moderate West wind, backing Southwest. Mainly fair. A few scattered showers. Average temperature.
7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland, 12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Moderate West to Northwest wind backing South and freshening tomorrow. Bright intervals and showers at first with perhaps local thunder. More general rain spreading from West tomorrow with local coast and hill fog near western coasts. Average temperature.
16 Orkneys and Shetlands, 17 N.W. Ireland, 18 N.E. Ireland, 19 S.E. Ireland, 20 S.W. Ireland	As 7-15.

GENERAL INFERENCE

A feeble trough of low pressure over Ireland is moving east-south-east followed by a wedge of high pressure now west of Ireland. A warm front is expected to approach Ireland tomorrow. Weather will be mainly fair in the South but showers are expected in the North. More general rain is likely in the ~~West and North during tomorrow.~~

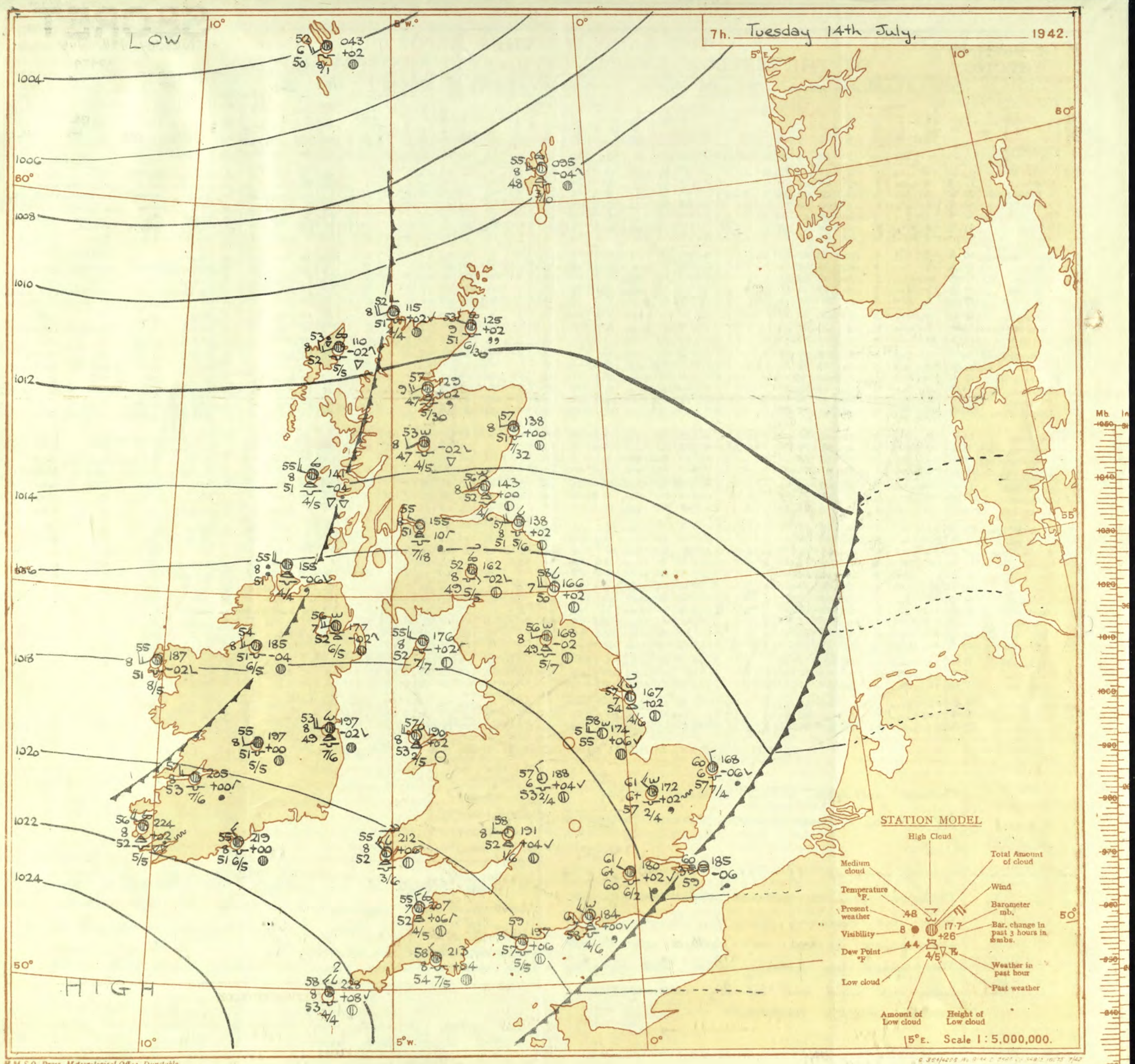
FURTHER OUTLOOK

Rain in the North and West spreading eastwards but amounts in the South mainly small.

Forecasts issued at 10.30.

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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).

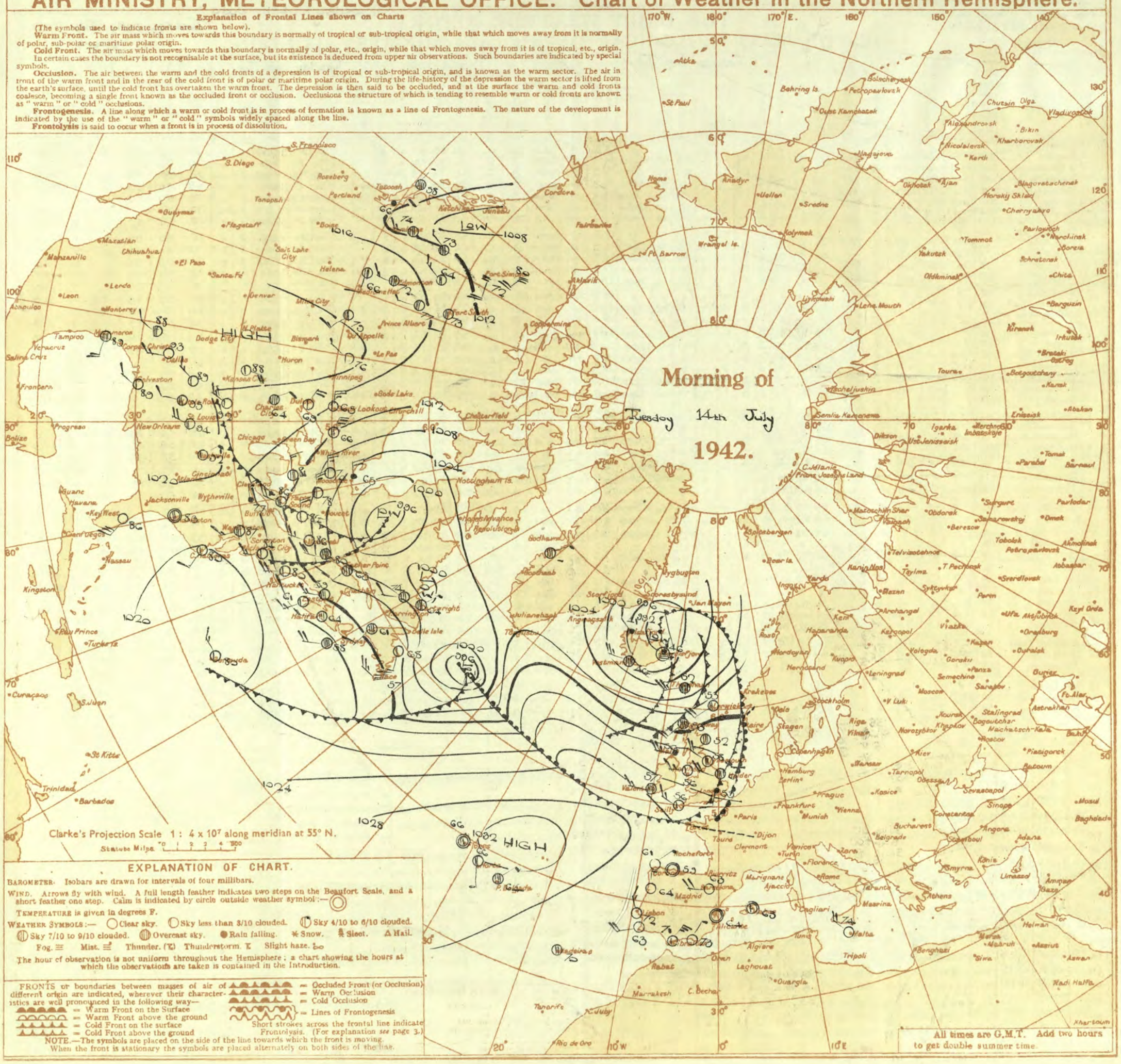
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Tuesday 14th July 1942

No. 29454

OBSERVATIONS at 1 hr. G.M.T. Tuesday 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)	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	*	*	*	*	*	60	*	*	*	*	*	*	*	*	*
	Croydon	290	18·9	-8	SSW	2	roro	59	97	59	6	5	-	-	2-3	10	1600
	S. Farnborough	226	18·4	-10	WSW	3	c/r	59	92	58	7	5	2	-	9	10	1200
	Boscombe Down	417	19·2	-8	W	3	zo	59	97	59	6	-	2	-	10	10	500
	Thorney Island	10	19·1	-12	WSW	4	dodo	60	97	59	7	5	-	-	10	10	700
	Lympne	283	19·9	-6	SW	2	roro	58	97	58	6	-	2	-	10	10	1500
	Manston	154	19·1	-4	WSW	2	rr	59	97	59	6	6	2	-	2-3	10	2000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	17·7	-8	SW'S	2	roro	61	97	61	6	5	2	-	2-3	10	1800
	Gorleston	5	17·9	-6	W'S	1	ir	61	92	58	6	6	-	-	10	10	1500
	Mildenhall	15	17·1	-6	SW	3	c/r	60	97	59	6	5	2	-	9	10	1800
	Cranwell	203	16·6	-2	W'S	3	o/d	59	97	59	6	5	-	-	10	10	3800
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	17·7	-8	W	2	zo	60	97	59	6	5	3	-	7·8	9+	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·7	0	W	3	c	58	97	58	7	5	6	-	4-6	7·8	1500
	Bristol	209	19·6	0	W'S	3	c/r	59	97	59	5	5	-	-	9	9	1500
	Portland Bill	32	20·0	-4	SW	4	o	57	85	54	7	5	-	-	10	10	2500
	Plymouth	82	21·2	0	W'N	2	zo	58	92	56	6	5	7	-	9	10	1500
	The Lizard	240	21·9	+4	NW'W	3	bc	56	97	55	7	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	22·3	-2	NW'W	3	bc	56	92	53	7	5	-	-	2-3	2-3	1200
	Guernsey	175															
6	Pembroke	142	20·4	+4	NW'W	3	bc	57	85	53	8	8	-	-	4-6	4-6	4000
7	Holyhead (Valley)	32	18·7	0	W	3	b	56	85	52	8	-	3	-	0	1	-
	Chester (Sealand)	16	17·5	0	W'N	2	c	59	85	50	7	5	7	-	7·8	9	2500
8	Manchester	235	17·4	0	–	0	zo	54	97	54	5	5	3	-	4-6	4-6	4000
10	Spurn Head	29	16·5	-4	W'N	4	zo	61	85	58	6	5	2	-	7·8	10	1500
	Catterick	175	16·7	0	W	1	c	53	92	51	8	5	-	-	7·8	7·8	5000
	Tynemouth	108	16·1	-2	NW	4	c	58	85	53	6	8	-	-	7·8	7·8	2500
11	St. Abbs Head	280	14·0	-4	W	4	bc	56	85	50	7	5	4	-	4-6	4-6	4000
	Leuchars	36	14·3	0	WSW	3	c	54	85	51	8	5	-	-	9	9	3500
12	Renfrew (Abbots I.)	19	15·7	+2	W'S	2	c	55	92	51	7	5	2	-	9	9+	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	17·4	+4	W'N	2	bc	51	97	50	8	4	4	[illegible]	1	2-3	3000
13A	Tiree	22															
13B	Stornoway	80	11·3	-2	SW	3	c/pr	53	97	52	7	5	7	-	7·8	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	13·6	0	–	0	c	52	92	49	9	5	3	-	2-3	9+	5000
	Wick	114	12·4	+2	WSW	2	c	52	85	48	9	5	3	-	7·8	7·8	3000
16	Sumburgh	19	11·2	+2	WSW	4	bc	53	92	51	7	5	3	-	2-3	4-6	2500
17	Blacksod Point	18	19·1	0	W'S	4	c	56	85	52	7	5	-	-	10	10	1500
18	Malin Head	84	16·3	0	W'S	5	r	56	85	52	8	8	2	-	7·8	10	1500
	Aldergrove	268	18·2	+2	W'S	2	c	54	85	51	8	5	-	1	7·8	9	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	22·5	+2	W'N	3	c	57	85	53	8	5	-	-	10	10	2500
	Roches Point	22	21·7	+6	NW'N	4	bc	55	85	51	8	5	-	-	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. Tuesday 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)	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)	17·7	-2	NW	2	zo	62	85	57	6	8	-	-	9	9	2500	1	*
Croydon	18·0	+2	WNW	2	c	61	97	60	6	5	-	-	9	9	400	1	*
S. Farnborough	18·3	+2	NW	3	c	61	92	59	7	5	-	-	9+	9+	1400	1	*
Boscombe Down	19·3	+4	NW	3	b	59	85	55	7	1	3	-	Tr	1	1000	1	*
Thorney Island	18·4	0	WNW	3	c	61	92	58	7	8	3	-	4-6	7·8	4000	1	*
Lympne	18·5	-6	SW	1	F	60	97	60	3	-	-	-	10	10	150	1	§ 2
Manston	17·2	-4	WS	2	F/d	60	97	60	6	5	-	-	9+	9+	1000	1	*
Shoeburyness	17·7	-2	WNW	2	c	63	85	60	7	5	-	-	9+	9+	1100	1	*
Felixstowe	16·9	-4	NW'W	3	c	62	92	59	6	5	-	-	9	9	2500	1	2
Gorleston	16·8	-6	NNW	1	zo	60	92	57	6	5	-	-	9+	9+	1700	1	2
Mildenhall	17·2	+2	NW'W	3	zo	61	85	57	6	5	3	-	1	9+	1000	1	*
Cranwell	17·4	+6	W	3	zo	58	85	55	5	-	3	-	0	4-6	-	1	*
Birmingham	18·8	+4	NW	2	zo	57	85	52	6	5	-	-	1	1	1500	1	*
Upper Heyford	18·0	0	NW	3	c	58	92	56	7	5	3	-	7·8	7·8	1000	1	*
Ross-on-Wye	19·1	+4	W'S	2	b	58	85	52	8	2	-	-	Tr	Tr	4000	1	*
Hartland Point	20·7	+6	NNW	3	c	55	85	52	7	2	7	-	4-6	9	2500	1	3
Bristol	20·2	+4	W'N	3	b	59	85	57	7	1	4	-	Tr	1	2500	1	*
Portland Bill	19·7	+6	W	2	c	59	92	57	8	5	-	-	7·8	7·8	2500	1	3
Plymouth	21·3	+4	NW	1	c	58	85	54	8	5	-	-	9+	9+	2500	1	2
The Lizard	21·4	-2	NW	3	c	57	92	55	8	8	2	-	9	10	1500	1	3
Scilly (St. Mary's)	22·8	+8	NW'W	3	c	58	85	53	8	5	4	6	4-6	7·8	1200	1	3
Guernsey																	
Pembroke	21·2	+6	NW'W	4	bc	55	92	52	8	8	4	2	2-3	4-6	3000	1	3
Holyhead (Valley)	19·0	+2	W	4	bc	57	85	53	8	2	4	-	1	4-6	2000	1	3
Chester (Sealand)	18·4	+4	W'N	3	bc	59	75	53	7	8	-	-	7·8	7·8	1500	0	*
Manchester	17·9	+2	W	3	zo	57	85	53	6	1	-	-	4-6	4-6	4000	1	*
Spurn Head	16·7	+2	WNW	4	bc	57	85	54	7	1	3	1	4-6	4-6	4000	0	3
Catterick	16·8	-2	WSW	1	c	56	75	49	8	8	3	-	7·8	7·8	5700	0	*
Tynemouth	16·6	+2	W	4	bc	58	75	50	7	-	4	-	0	4-6	-	0	2
St. Abbs Head	13·8	+2	W	4	c	57	85	51	8	5	4	-	7·8	9	3500	0	3
Leuchars	14·3	0	WSW	4	c	56	85	52	8	8	6	-	4-6	7·8	3000	0	*
Renfrew (Abbots I.)	15·5	+10	W'N	1	c	55	85	51	8	8	-	-	9+	9+	1800	1	*
Eskdalemuir	16·2	-2	SE	1	c	52	92	49	8	5	7	1	7·8	7·8	2200	1	*
Point of Ayre	17·6	+2	W'N	3	c	55	92	52	8	5	-	-	9+	9+	6000	0	3
Tiree	14·1	-4	W'N	3	c/pr	55	85	51	8	8	7	-	4-6	7·8	2500	0	4
Stornoway	11·0	-2	SW	3	pr	53	97	52	8	5	7	-	7·8	9+	2500	1	1
Dalwhinnie	13·8	-2	SW	2	c	53	75	47	8	5	3	-	4-6	9+	2500	1	*
Aberdeen †	13·8	0	W'S	2	c	57	85	51	8	5	-	-	9+	9+	3200	1	1
Wick	12·5	+2	W'N	2	c/d	53	92	51	9	5	7	-	9	9+	3000	1	*
Sumburgh	10·9	-6	SW'W	4	c	54	92	52	8	5	3	-	2-3	7·8	4500	0	4
Blacksod Point	18·7	-2	WSW	3	o/pr	55	85	50	8	5	-	-	10	10	2500	1	3
Malin Head	15·5	-6	W	4	ir	55	85	50	8	8	2	-	4-6	9	1500	1	3
Aldergrove	17·7	-2	WSW	3	c	56	85	52	7	7	3	-	9	9+	3000	1	*
Birr Castle	19·7	0	WSW	2	c	55	85	50	8	5	-	-	7·8	10	2500	0	*
Valentia Obsy.	22·4	+2	W'N	4	c/pr	56	85	51	8	8	7	-	7·8	9+	2500	1	3
Roches Point	21·9	0	NW'W	3	c	55	85	50	8	5	-	-	9	9	2500	1	2

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)	69	59	56	Tr	5	5·5
Croydon	70	58	58	-	4	7·6
S. Farnborough	70	59	56	0·1	1	4·9
Boscombe Down	68	56	53	Tr	1	3·7
Thorney Island	71	59	55	-	1	*
Lympne	72	57		-	2	10·4
Manston	73	58	57	-	12	9·8
Shoeburyness	75	59	59	-	11	9·6
Felixstowe	75	60	61	-	6	8·6
Gorleston	71	59	56	-	6	9·0
Mildenhall	73	58	56	Tr	2	7·5
Cranwell	*	55	52	2	1	13·1
Birmingham	67	55	48	Tr	2	2·6
Upper Heyford	68	56	50	Tr	2	*
Ross-on-Wye	65	53	49	0·2	1	2·5
Hartland Point	59	55	54	3	0·1	1·0
Bristol	68	55	49	Tr	1	2·6
Portland Bill	61	56	*	-	4	*
Plymouth	61	55	48	1	Tr	2·0
The Lizard	62	54	*	1	1	1·8
Scilly (St. Mary's)	62	55	*	1	0·2	0·0
Guernsey						
Pembroke	60	49	*	4	-	0·0
Holyhead (Valley)	63	52	48	7	-	*
Chester (Sealand)	69	55	49	5	Tr	1·4
Manchester	66	52	46	3	-	*
Spurn Head	69	55	*	0·1	0·3	2·9
Catterick	68	50	45	1	-	1·3
Tynemouth	70	53	51	3	-	*
St. Abbs Head	67	54	*	0·1	-	*
Leuchars	70	53	49	-	-	6·2
Renfrew (Abbots I.)	63	53	47	Tr	1	1·3
Eskdalemuir	63	46	40	4	-	2·5
Point of Ayre	68	50	*	4	-	1·1
Tiree	62	54	*	*	0·2	5·2
Stornoway	60	52	*	0·3	2	1·4
Dalwhinnie	61	49	46	Tr	0·4	1·9
Aberdeen †	73	54	47	0·2	-	3·7
Wick	66	51	47	0·1	Tr	*
Sumburgh	58	52	49	0·3	-	2·9
Blacksod Point	61	55	*	0·2	0·1	*
Malin Head	61	52		Tr	5	3·3
Aldergrove	65	52	50	0·1	Tr	1·4
Birr Castle	65	48	44	0·1	-	1·2
Valentia Obsy.	63	55	50	Tr	0·3	2·5
Roches Point	65	52	*	0·5	-	*

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	13h $C_L C_M$	13h wwVhNh	13h DDFWN	18h $C_L C_M$	18h wwVhNh	18h DDFWN	01h $C_L C_M$	01h wwVhNh	01h DDFWN	07h $C_L C_M$	07h wwVhNh	07h DDFWN
109	87	02864	24455	77	02764	24325	54	01873	21214	5-	02866	18356
115	52	81834	20487				52	02844	20427	52	02844	20427
203	8-	02847	16527	5-	02848	20528				5-	25948	16588
206	86	02864	22416	86	02865	22425	4-	01964	22124	8-	02965	20355
210	83	02963	20526	87	02965	55426	5-	02965	18827	50	01967	20427
220	70	01844	23484									
230	82	02856	20357	8-	02858	18388	52	18867	15654	5-	52724	20357
245	80	02963	24366	80	02864	22327	5-	02864	20224	80	02975	22215
260	53	02854	23416	43	02864	23427	5-	02665	23215	73	02853	23214
278	77	02857	30367	57	02856	28827	5-	02865	24365	53	02866	24367
279	87	02755	22427	7-	02867	22327	53	02865	26226	5-	02844	22327
285										27	01744	26415
288	52	62855	17368	81	02863	20367	5-	01775	22215	03	02890	22226
575	23	02855	26417	23	02844	26427	5-	02848	26388	5-	21856	22326
301	52	22626	22468	57	02856	23327	5-	01764	27214	24	00752	27412
321	5-	02758	22428	51	05656	20268	53	05573	24124	04	05690	26213
299	80	05657	22417	51	02745	22326	50	01758	22313	50	00762	26212
292	67	62646	20367	57	02864	28225	50	00763	26113	50	00762	26112
310	--	61628	24328							--	01626	25226
614	51	05764	22217	82	02654	22387	5-	05554	00064	05	05590	26223

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

III	13h $C_L C_M$	13h wwVhNh	13h DDFWN	18h $C_L C_M$	18h wwVhNh	18h DDFWN	01h $C_L C_M$	01h wwVhNh	01h DDFWN	07h $C_L C_M$	07h wwVhNh	07h DDFWN
333	5-	22726	18268	5-	02866	30157	50	01764	28224	14	00842	27313
334	--	54547	28228							--	00690	28202
340	87	25945	22386	52	02965	23366	5-	05575	30115	54	00841	28212
136	19	02853	23367	57	22874	22267	02	64528	21368	03	05690	26315
336	57	02755	24428	62	62626	20368				10	01753	20313
350	87	02864	20427	57	02777	20828	5-	52508	18298	83	05635	26357
368	57	02844	23428	5-	54408	24358	5-	05654	20264	03	00790	30213
379	2-	02848	22428	5-	02848	55488	50	05645	24355	23	01852	26413
390	13	02765	24416	57	61766	24428	6-	64536	24298	93	05534	26365
382	77	02866	22427	52	02865	22428	6-	22638	24368	76	02865	28325
438	84	01853	22414	50	02745	22515	--	57109	22469	5·	21646	22267
430	13	01853	20415	53	02853	20427	5-	58638	20368	5-	02-57	26227
409	5-	61838	22468	--	57109	22459	5-	05045	26355	8?	02857	29327

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
Kew	bcm₀cy	cypcs	crRr₀
Croydon	bcz₀	c	ccpstcd
Greenwich	bccy	cy	cprrRr₀
Camden Square	bc	c	*
Kensington	bcc	c	*
Hampstead	c	cor	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·15 Time 7h 14th. Min. <0·1 Time 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 Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	69	59	56	Tr	5	5·6	*	*
Croydon	70	58	58	-	4	7·6	*	*
Greenwich	73	59	57	-	7	5·7	53	70
Westminster	70	60	49	7				
Regents Park	71	59	58	-	4		67	71
Camden Square	71	60	57	-	5	*	*	63
Kensington	71	59	57	-	8		65	71
Hampstead	69	56	53	-	6		*	73

SECRET

Page 1

BRITISH SECTION

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

Wednesday 15th July 1942

No. 29458

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)	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)	17·5	−4	N'N	2	c	68	45	47	8	8	1	6	4-6	9+	2500
	Croydon ...	17·8	−4	NW	4	c	69	65	54	7	2	7	-	4-6	9+	3000
	S. Farnborough	18·2	−2	NW'W	3	c	68	45	48	8	8	-	6	4-6	9+	3000
	Boscombe Down	19·3	0	NW'W	4	c	66	55	47	5	4	7	-	4-6	9+	3500
	Thorney Island	18·3	−2	W'N	4	c	73	65	62	9	1	6	8	4-6	9	4000
	Lympne ...	18·0	−2	WNW	2	bc	67	65	57	7	2	-	-	4-6	4-6	2000
	Manston ...	17·3	−2	NW	1	zo	67	75	58	6	5	-	-	9	9	5700
2	Shoeburyness ...	17·4	−6	NW	3	c	70	55	54	8	8	-	-	9+	9+	2500
	Felixstowe ...	17·0	−2	WNW	2	c	70	55	52	7	8	-	-	9	9	2500
	Gorleston ...	17·0	+2	NE'N	3	c	62	75	55	7	8	3	-	4-6	7-8	2000
	Mildenhall ...	17·2	−2	WNW	3	c	67	55	50	8	8	7	-	2-3	9+	2500
	Cranwell ...	16·9	−4	WNW	3	c	66	65	50	7	2	-	-	9+	9+	4000
3	Birmingham ...	18·2	−4	WNW	3	c	63	55	48	8	8	7	-	9	10	2500
	Upper Heyford	18·3	+2	WNW	4	c	65	55	49	8	7	-	1	9	9+	7200
4	Ross-on-Wye	18·9	0	W	4	c	64	55	49	8	5	-	1	9	9+	4000
5	Hartland Point	21·4	0	WNW	2	c	60	75	50	8	2	7	-	2-3	9	2500
	Bristol ...	20·9	+2	W	4	c	62	75	54	8	2	3	-	1	10	4000
	Portland Bill ...	20·2	+2	W	2	c	61	85	58	8	2	-	-	10	10	4000
	Plymouth ...	21·8	−2	NW	4	c	61	65	49	8	5	2	-	9	10	2500
	The Lizard ...	22·6	0	W	3	c	62	75	55	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	23·5	+2	WNW	3	c	63	75	54	8	8	7	-	2-3	10	1200
	Guernsey ...															
6	Pembroke ...	21·7	+2	WNW	4	c	59	85	55	8	8	-	-	9	9	3500
7	Holyhead (Valley)	19·1	0	SW	4	bc	62	75	54	8	8	7	-	2-3	2-3	2000
	Chester (Sealand)	18·8	+2	NW'W	3	c/r	60	65	49	8	8	2	-	2-3	10	2600
8	Manchester ...	18·4	+6	W	4	c	60	65	49	7	4	7	-	7-8	9+	4000
10	Spurn Head ...	16·9	0	W'N	3	zo	65	55	50	6	7	5	-	7-8	9+	4400
	Catterick ...	16·4	+2	W	2	c	65	55	47	8	7	3	-	2-3	9+	2500
	Tynemouth ...	16·3	−2	W	4	c	65	55	47	7	8	2	-	7-8	9	2700
11	St. Abbs Head	14·1	+4	WNW	3	c	59	85	55	7	5	4	-	7-8	9	2200
	Leuchars ...	13·7	−4	WSW	3	c	64	65	54	8	8	-	8	4-6	7-8	3500
12	Renfrew (Abbots I.)	15·1	0	WSW	3	pr	58	85	54	7	8	-	-	4-6	10	2000
	Eskdalemuir ...	15·1	−4	SW	4	pr	58	65	46	8	8	-	-	9+	9+	1800
	Point of Ayre ...	17·2	−4	W'N	4	bc	65	65	52	8	2	4	5	1	4-6	3000
13A	Tiree ...	14·4	+4	WSW	3	bc/pr	55	85	51	8	8	4	-	4-6	4-6	2500
13B	Stornoway ...	11·3	+4	SW	3	c/pr	57	92	54	8	5	7	5	4-6	9	2500
15	Dalwhinnie ...	14·0	−2	SW	1	c	55	85	49	8	5	1	-	4-6	10	2500
	Aberdeen ...	12·8	0	SE	2	c	63	65	53	7	9	9	-	7-8	9	1800
	Wick ...	12·2	0	WSW	2	c/pr	58	85	53	9	9	7	6	4-6	9	3000
16	Sumburgh ...	12·2	+10	SW'W	3	c	56	85	52	8	8	3	-	4-6	7-8	4000
17	Blacksod Point	20·0	+10	W	4	c	60	97	60	8	5	-	-	9	9	2500
18	Malin Head ...	15·7	+4	WS	6	c/r	58	75	51	8	9	2	-	4-6	9	1500
	Aldergrove ...	17·3	−2	WSW	3	PR	57	85	52	6	8	-	-	10	10	800
19	Birr Castle ...	19·9	0	WSW	4	c	63	65	52	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy.	23·2	+6	W'N	4	bc/pr	61	75	52	8	8	-	-	4-6	4-6	2500
	Roches Point	21·7	0	NW'W	3	c	63	75	55	8	5	-	-	7-8	7-8	1500

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)	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)	18·0	0	WNW	5	c	65	55	47	8	7	7	-	7-8	9+	1500	1	*
	Croydon ...	18·1	+2	WNW	3	c	65	65	51	8	5	7	-	4-6	9+	6500	1	*
	S. Farnborough	18·3	−2	NNW	3	c	65	55	48	8	8	7	-	4-6	9+	2500	0	*
	Boscombe Down	19·5	+2	WNW	5	bc	63	65	52	8	2	6	-	4-6	4-6	3000	0	*
	Thorney Island	18·7	0	NNW	4	c	64	65	51	7	5	3	-	4-6	9	4000	0	*
	Lympne ...	17·7	−2	WNW	2	pr	64	65	50	6	2	-	-	10	10	7000	0	§3
	Manston ...	17·0	−2	WNW	1	c/pr	65	75	58	6	8	7	8	4-6	9+	3500	1	*
2	Shoeburyness ...	17·5	0	WNW	2	c	66	65	53	7	5	-	-	9+	9+	3500	0	*
	Felixstowe ...	16·8	−2	-	0	c	68	85	62	6	5	2	-	2-3	9+	5700	0	2
	Gorleston ...	17·3	−4	S'W	2	zo	60	75	50	6	8	-	-	9	9	2000	0	3
	Mildenhall ...	17·0	−2	W'N	3	c	65	55	50	7	7	7	-	1	9+	5500	0	*
	Cranwell ...	17·0	−2	WNW	4	bc	64	55	46	8	7	-	9	4-6	4-6	3500	0	*
3	Birmingham ...	18·0	−4	WNW	3	c	63	55	48	8	8	7	-	7-8	9+	2500	1	*
	Upper Heyford	18·3	0	W'N	4	c	64	55	47	9	4	-	-	7-8	7-8	4000	0	*
4	Ross-on-Wye	19·2	−6	WNW	4	c	62	55	47	9	7	-	-	9	9	4000	0	*
5	Hartland Point	20·3	−4	NNW	3	bc	59	85	53	8	2	6	-	2-3	4-6	2000	0	3
	Bristol ...	20·5	0	WS	5	c	62	65	48	9	2	3	-	4-6	9+	4000	0	*
	Portland Bill ...	20·0	−2	W	2	bc	61	92	59	8	2	-	-	4-6	4-6	4000	1	2
	Plymouth ...	22·2	0	NNW	3	bc	63	65	51	9	1	-	-	4-6	4-6	2000	1	3
	The Lizard ...	23·1	+4	NW	3	c	59	75	51	8	8	6	-	7-8	7-8	2500	0	3
	Scilly (St. Mary's)	23·7	−2	W'N	3	bc	62	55	47	9	8	4	-	4-6	4-6	1200	1	3
	Guernsey ...																	
6	Pembroke ...	21·1	−4	W	5	bc	58	92	55	8	2	7	-	2-3	4-6	3500	0	3
7	Holyhead (Valley)	19·1	+2	W	3	c	59	75	51	8	8	6	-	2-3	7-8	4000	1	2
	Chester (Sealand)	18·1	+2	WNW	4	c	64	65	50	8	8	6	-	4-6	7-8	2500	0	*
8	Manchester ...	17·5	−2	W	3	bc/pr	60	85	54	7	2	6	-	2-3	4-6	2500	1	*
10	Spurn Head ...	16·4	−4	WNW	4	c	62	65	49	7	8	7	-	4-6	9+	2500	0	3
	Catterick ...	16·6	+2	W'N	3	pr	56	85	50	9	5	7	-	7-8	9+	2500	0	*
	Tynemouth ...	16·0	+4	W	6	c	59	65	47	7	8	-	-	7-8	7-8	2700	0	3
11	St. Abbs Head	13·8	+4	WNW	3	c	59	65	47	8	2	4	-	4-6	7-8	3500	0	3
	Leuchars ...	13·7	0	NW	3	c	59	85	55	8	8	6	3	4-6	7-8	1500	1	*
12	Renfrew (Abbots I.)	15·3	0	NW'W	4	c	60	85	54	7	8	-	-	7-8	7-8	2000	1	*
	Eskdalemuir ...	15·7	+2	W	3	bc	55	75	46	8	8	3	3	4-6	4-6	2200	1	*
	Point of Ayre ...	17·7	+4	WNW	3	bc	59	85	52	8	8	4	-	2-3	2-3	2500	1	3
13A	Tiree ...	16·7	+10	NW	4	bc	57	75	50	8	8	3	-	2-3	4-6	2800	0	4
13B	Stornoway ...	14·4	+16	W	4	c	57	85	51	8	5	7	-	4-6	9	2500	1	2
15	Dalwhinnie ...	15·5	+4	WNW	1	c	54	75	48	8	8	-	-	7-8	7-8	2500	1	*
	Aberdeen ...	13·9	+10	NW'N	2	c/pr	58	85	53	7	9	9	-	7-8	9	2300	1	1
	Wick ...	13·2	+6	NW'W	1	c/pr	55	92	52	9	9	-	-	9	9	2000	1	*
16	Sumburgh ...	12·8	+2	SW	3	bc	55	92	52	8	2	3	-	2-3	2-3	2500	0	4
17	Blacksod Point	21·8	+10	W	3	c	58	75	49	8	8	-	-	9	9	2500	0	3
18	Malin Head ...	18·0	+4	W'N	5	c	58	75	50	8	9	2	-	4-6	7-8	2500	1	3
	Aldergrove ...	18·5	+6	W	4	bc	60	65	49	8	8	-	-	4-6	4-6	2500	1	*
19	Birr Castle ...	20·8	+4	WNW	3	bc	64	65	53	8	8	-	-	4-6	4-6	1500	0	*
20	Valentia Obsy.	24·5	+10	NW	4	bc	60	75	53	8	8	-	-	4-6	4-6	2500	1	4
	Roches Point	22·1	+6	NNW	5	bc	62	65	51	8	5	-	-	4-6	4-6	2500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 14th (39)	Weather. 13h.—18h. 14th (40)	Weather. 18h. 14th to 1h. 15th (41)	Weather. 1h.–7h. 15th (42)
1	London (Kew)	cmocey	cy	bcbw	bw
	Croydon ...	cbcc	cyc	cbcb	bc
	S. Farnborough	cbccy	cy	cybw	bw
	Boscombe Down	bbcc	c	c	cmofg
	Thorney Island	cbcc	ccyc	cbcb	bbw
	Lympne ...	cmobcc	bccyc	cpfcb	bwb
	Manston ...	cmobcmo	czopro	bcmobmo	bcmobc
2	Shoeburyness ...	c	cyc	c	cbcb
	Felixstowe ...	cbcmoc	ccmo	cmobcmobmobmo	
	Gorleston ...	bcc	cbczo	cpfcc	bc
	Mildenhall ...	cbcmobc	cy	cpro,bc,bw	bwbmow
	Cranwell ...	bcmoczo	cybcy	bcmobmo	bwbmo
3	Birmingham ...	b,c	c	cprobc	bcz
	Upper Heyford	c	cy bcy	bcprob	bwbc
4	Ross-on-Wye	bbccy	cvccv	bcbb	bwbc
5	Hartland Point	c	c	bcbcbbc	bc
	Bristol ...	c	c	bcbw	bbfgw
	Portland Bill ...	c	cbc	cbc	bcbc
	Plymouth ...	cproc	cprocbc	bcb	bwfbcmo
	The Lizard ...	c	c	cbcw	bcw
	Scilly (St. Mary's)	c	bcc	bcbw	bcwcbc
	Guernsey ...				
6	Pembroke ...	c	bc	bcb	bcw
7	Holyhead (Valley)	cbc	cpro,jp	bcb	bbcw
	Chester (Sealand)	bccir.	cbc	bcc	cbc
8	Manchester ...	bcmoc	cpro	bc	bcmow
10	Spurn Head ...	cmo	c	c	cbc
	Catterick ...	cbcycy	ccpro	cprob	bbccw
	Tynemouth ...	bcc	c	cpbc	bc
11	St. Abbs Head	cbcc	cproc	cbbcc	cbc
	Leuchars ...	c	ccprbc	procbc	bcbc
12	Renfrew (Abbots I.)	cproc	cprc	bcbbc	bcwc
	Eskdalemuir ...	cpr	PRHprobc	bcc	cbc
	Point of Ayre ...	cbc	bcprc	bcb	cbcc
13A	Tiree ...	cprbc	pr bc	bc	cidc
13B	Stornoway ...	cpr	cpr	cpr	cpro
15	Dalwhinnie ...	cproc	oproc	bcbbc	cprobc
	Aberdeen ...	c Prc	cpr	cbc	cbc
	Wick ...	cproc	cpro PRm.	prprobc	cbc
16	Sumburgh ...	cbbc	bccbc	bbcb	bbccjp
17	Blacksod Point	c	bc	c	r
18	Malin Head ...	r	bc	pr	pr
	Aldergrove ...	cprPRpro	cPHRcbc	bcc	c
19	Birr Castle ...	pr	bc		r
20	Valentia Obsy.	pr	pr	bc	bc
	Roches Point	pr	c	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 15th July, 1942.

Districts.	
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light or moderate West wind backing southwest; fair at first; occasional rain later; average temperature.
5 S.W. England 6 South Wales	Light or moderate Southwest wind, fresh locally veering West; cloudy; occasional rain; local coast and hill fog.
7 North Wales 8 N.W. England	As 12-13B.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light or moderate Southwest wind, fresh locally veering West; cloudy; occasional rain; bright intervals later; average temperature.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland	Moderate South wind fresh or strong locally, veering West or Northwest; occasional rain at first, bright intervals and showers later; local coast and hill fog at first; average temperature.
14 Mid Scotland 15 N.E. Scotland	Moderate South wind, fresh locally veering west or Northwest; rain at first; bright intervals and
16 Orkneys and Shetlands	showers later; Cool.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 12-13B.

GENERAL INFERENCE

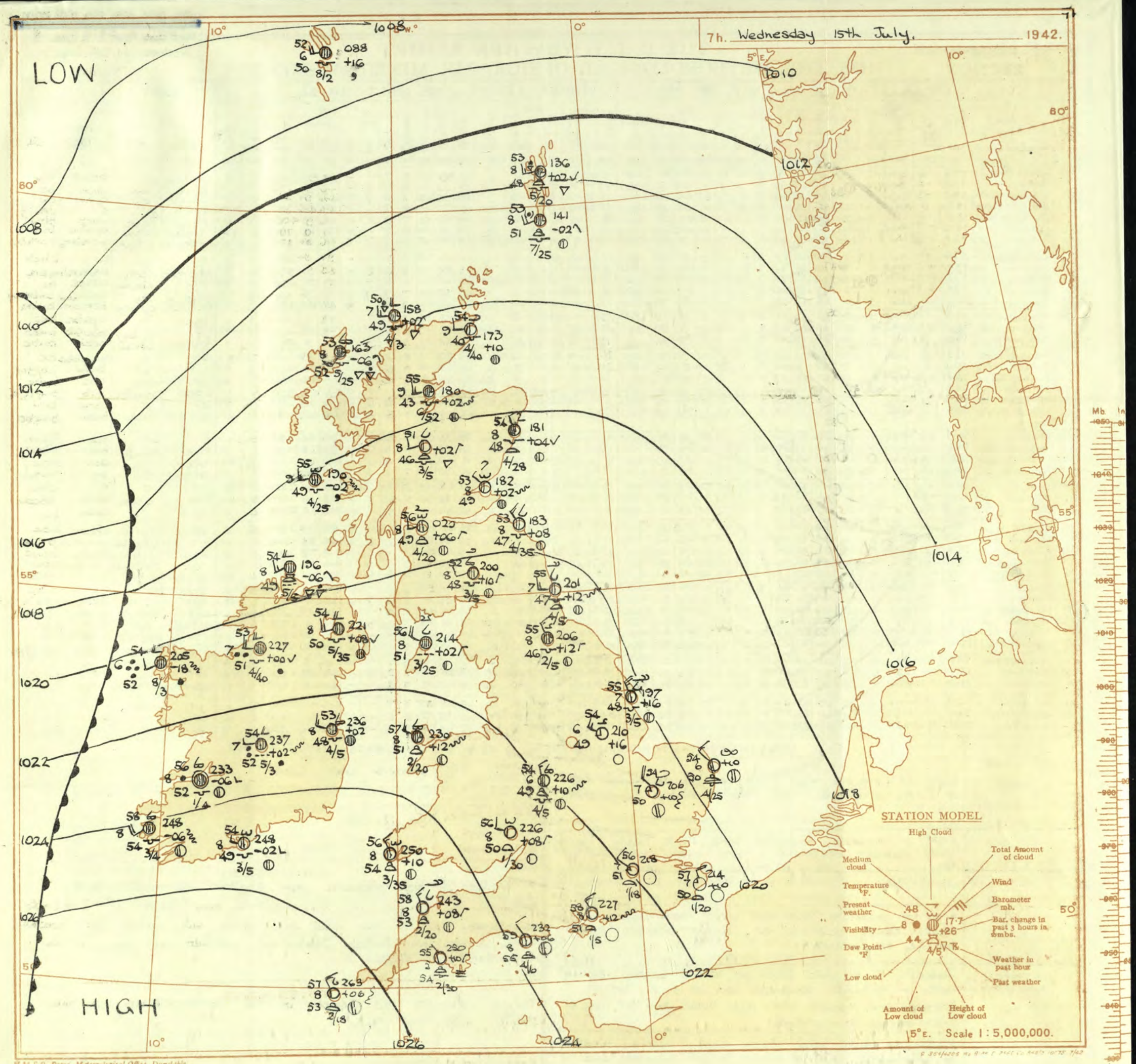
A wedge of high pressure over England is moving east, followed by troughs of low pressure now west of Ireland; occasional rain in the West and North will spread east-southeast across the British Isles, but weather will be fair in the East at first.

FURTHER OUTLOOK

Bright intervals and showers in the North; cloudy in the South with local rain.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2


7h. Wednesday 15th July. 1942.
LOW
HIGH
STATION MODEL
High Cloud
Total Amount of cloud
Medium cloud
Wind
Temperature °F.
Barometer mb.
Present weather
Bar. change in past 3 hours in mbs.
Visibility
Dew Point °F
Weather in past hour
Low cloud
Past weather
Amount of Low cloud
Height of Low cloud
5°E. Scale 1 : 5,000,000.
H.M.S.O. Press, Meteorological Office, 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).

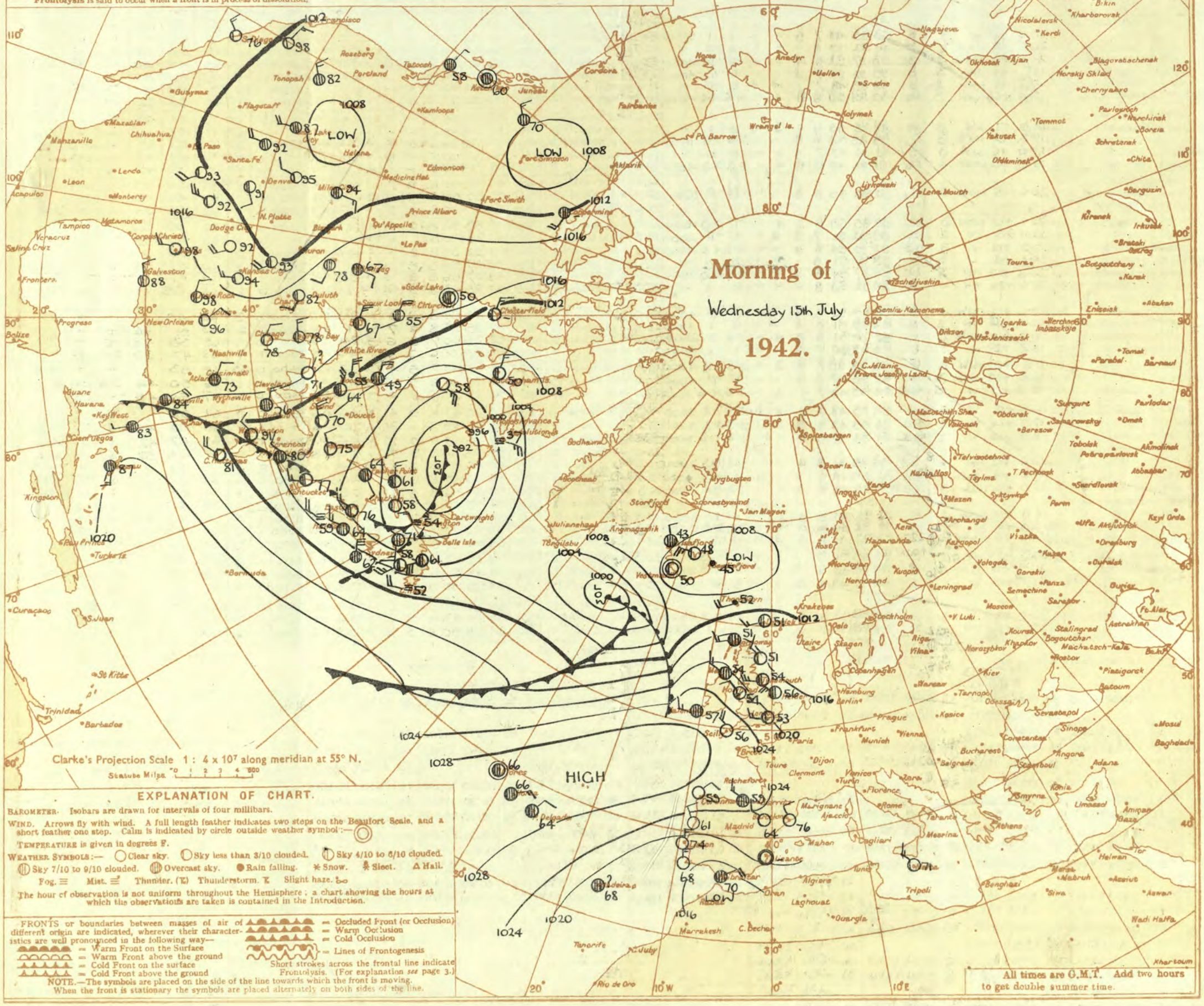
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Wednesday 15th July 1942

No. 29455

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)	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	*	*	*	*	*	56	*	*	*	*	*	*	*	*	*
	Croydon ...	290	20·0	+6	W	3	b	53	85	49	7	5	-	-	1	1	5000
	S. Farnborough	226	20·6	+8	WNW	1	b	51	92	49	8	-	-	-	0	0	-
	Boscombe Down	417	21·7	+8	WNW	3	2o	53	97	52	6	4	-	-	Tr	Tr	4000
	Thorney Island	10	20·7	+4	NW	3	b	55	92	52	7	5	-	-	Tr	Tr	4000
	Lympne ..	283	20·2	+6	WNW	2	b	52	85	48	7	-	4	-	0	Tr	-
	Manston ...	154	18·4	+6	WNW	3	2o	59	85	53	6	5	-	-	4·6	4·6	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	18·3	+2	W'N	3	2o	58	75	50	6	-	3	-	0	1	-
	Gorleston ...	5	17·8	+2	NW'N	3	2	55	85	53	6	5	-	-	7·8	7·8	1500
	Mildenhall ...	15	19·0	+6	W'N	3	b	52	92	49	7	-	-	-	0	0	-
	Cranwell ...	203	19·0	+10	WNW	4	2o	51	92	49	6	5	-	-	2·3	2·3	4000
3	Birmingham ...	538	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	20·6	+8	WNW	2	b	52	92	50	8	5	-	-	Tr	Tr	5700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23·1	+10	WNW	3	bc	58	85	53	8	2	4	-	Tr	2-3	1500
	Bristol ...	209	22·4	+6	SW	2	b	53	92	51	7	5	4	-	Tr	Tr	4000
	Portland Bill ...	32	22·5	+12	W	3	bc	56	92	54	8	5	-	-	4·6	4·6	4000
	Plymouth ...	82	24·1	+4	-	0	b	53	97	52	8	-	-	-	0	0	-
	The Lizard ...	240	24·8	+10	NW	2	bc	55	97	54	8	2	-	-	2·3	2·3	2500
	Scilly (St. Mary's)	163	25·6	+12	NW	4	b	56	92	53	8	-	-	-	0	0	-
	Guernsey ...	175															
6	Pembroke ...	142	23·6	+12	NW'N	4	b	57	85	52	8	4	-	-	Tr	Tr	4000
7	Holyhead (Valley)	32	22·1	+14	NW	2	b	54	85	51	8	4	-	-	1	1	4000
	Chester (Sealand)	16	20·9	+10	NW'W	3	c	57	75	51	8	8	6	-	7·8	9	2300
8	Manchester ...	235	19·3	+2	W	3	b	52	85	50	7	5	-	-	1	1	4000
10	Spurn Head ...	29	17·8	+6	NW'W	5	c	56	85	50	7	5	3	-	2-3	7·8	4000
	Catterick ...	175	18·8	+10	WNW	3	b	52	85	47	8	5	-	-	Tr	Tr	4000
	Tynemouth ...	108	18·0	+12	W	5	bc	53	85	49	7	2	3	-	4·6	4·6	2500
11	St. Abbs Head	280	16·6	+18	W	4	c	54	85	48	7	5	4	-	4·6	7·8	2500
	Leuchars ...	36	17·3	+14	W	2	bc	52	85	49	8	5	-	1	2-3	2-3	3500
12	Renfrew (Abbots L.)	19	18·9	+10	W	2	bc	51	92	47	8	5	-	-	4·6	4·6	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	20·6	+12	NW	4	bc	55	85	52	8	4	-	-	2-3	2-3	3000
13A	Tiree	22	19·4	+8	NW	1	bc	52	85	48	8	1	-	5	1	2-3	4000
13B	Stornoway ...	80	16·9	+12	WSW	3	c/pr	51	92	49	8	5	7	-	7·8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	16·8	+14	WNW	2	b	51	92	48	9	5	-	-	1	1	3500
	Wick ...	114	15·8	+6	W	1	bc	49	92	46	8	2	4	1	2-3	2-3	3000
16	Sumburgh ..	19	14·2	+6	SW'W	3	b	51	97	51	8	5	4	-	Tr	Tr	800
17	Blacksod Point	18	23·3	-2	W'S	2	c	55	85	51	7	-	1	-	0	10	-
18	Malin Head ...	84	20·5	+6	W'N	3	c	54	85	50	8	9	-	-	7·8	7·8	2500
	Aldergrove ...	268	21·7	+10	W	2	c	54	85	48	8	5	-	-	9	9	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	26·0	+2	W	3	c	57	85	53	8	5	-	-	7·8	7·8	4000
	Roches Point	22	25·4	+6	NW	3	b	54	85	50	8	5	-	-	1	1	2500

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)	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)	22·4	+12	NW'N	3	b	57	75	47	8	1	4	-	Tr	1	2500	1	*
	Croydon ...	21·8	+10	WNW	2	b	56	85	51	7	1	4	2	Tr	Tr	1800	1	*
	S. Farnborough	22·7	+14	NW	3	b	56	85	50	8	1	-	-	Tr	Tr	3000	0	*
	Boscombe Down	23·6	+14	NNW	3	b	56	85	51	7	7	3	-	Tr	Tr	2000	0	*
	Thorney Island	22·7	+12	NW	3	b	58	75	51	8	1	-	-	Tr	Tr	2500	1	*
	Lympne ..	21·4	+10	NW	4	b	57	75	50	7	1	-	-	Tr	Tr	2000	1	§2
	Manston ...	20·7	+16	NW	4	2o	56	92	53	6	1	-	-	1	1	1000	1	*
2	Shoeburyness ...	21·4	+12	WNW	3	b	57	75	50	7	-	-	-	0	0	-	0	*
	Felixstowe ...	20·6	+18	NW'N	3	2o	57	75	49	6	-	-	-	0	0	-	0	2
	Gorleston ...	19·0	+10	NW'N	3	2o	54	85	50	6	8	-	-	4·6	4·6	2500	1	3
	Mildenhall ...	20·6	+10	WNW	4	b	54	85	50	7	-	4	1	0	Tr	-	1	*
	Cranwell ...	21·0	+16	WNW	3	2o	54	85	49	6	-	-	8	0	1	-	0	*
3	Birmingham ...	22·6	+10	NW	3	2o	54	85	50	6	8	7	-	4·6	7·8	2500	1	*
	Upper Heyford	22·1	+8	NW'W	3	bc	55	85	50	8	1	3	9	1	2·3	2100	0	*
4	Ross-on-Wye	22·6	+8	W	2	bc	56	85	50	8	1	3	-	Tr	2-3	3000	0	*
5	Hartland Point	24·3	+8	NW	3	bc	58	85	53	8	2	4	1	1	2-3	2000	0	3
	Bristol ...	23·8	+10	W'N	2	b	57	75	51	8	-	4	-	0	Tr	-	0	*
	Portland Bill ...	23·2	+6	NW	2	bc	59	92	55	8	2	-	-	4·6	4·6	4000	1	2
	Plymouth ...	25·0	+10	WNW	1	2o	55	97	54	5	8	-	-	1	1	3000	0	2
	The Lizard ...	26·7	+16	NNW	2	bc	56	97	56	8	8	6	-	2-3	4·6	2500	1	3
	Scilly (St. Mary's)	26·3	+6	NW'W	3	bc	57	85	53	8	2	4	-	1	2-3	1800	0	2
	Guernsey ...																	
6	Pembroke ...	25·0	+10	NW	3	bc	56	92	54	8	2	3	-	2-3	4·6	3500	0	3
7	Holyhead (Valley)	23·0	+12	WNW	3	c	57	85	51	8	2	7	-	1	9+	2000	1	2
	Chester (Sealand)	22·2	+8	WNW	3	c	57	75	50	7	8	6	9	7·8	9+	2000	0	*
8	Manchester ...	21·8	+10	W'S	1	bc	54	85	51	6	2	3	-	4·6	7·8	2500	1	*
10	Spurn Head ...	19·7	+16	NW'W	5	bc	55	75	48	7	5	4	2	2-3	4·6	2500	0	3
	Catterick ...	20·6	+12	NW'W	3	c	55	75	46	8	5	-	8	1	9	2500	0	*
	Tynemouth ...	20·1	+12	W	4	bc	55	75	47	7	7	4	2	4·6	4·6	2500	0	2
11	St. Abbs Head	18·3	+8	WNW	3	bc	53	75	47	8	5	4	-	4·6	4·6	3500	0	3
	Leuchars ...	18·2	+2	WNW	1	bc	53	85	49	8	-	3	4	0	4·6	-	1	*
12	Renfrew (Abbots L.)	20·0	+6	WSW	2	c	56	75	49	8	2	3	3	4·6	4·6	2000	1	*
	Eskdalemuir ...	20·0	+10	SW	2	bc	52	85	50	8	5	7	1	2-3	7·8	2500	1	*
	Point of Ayre...	21·4	+2	WNW	4	c	56	85	51	8	6	4	7	2-3	10	2500	0	3
13A	Tiree	19·0	-2	WSW	3	c	55	85	49	8	5	3	-	4·6	7·8	2500	0	2
13B	Stornoway ...	16·3	-6	SSW	3	c/pr	53	97	52	8	5	7	-	7·8	9+	2500	1	1
15	Dalwhinnie ...	18·5	+2	WSW	2	bc	51	75	46	8	8	4	-	2-3	4·6	2500	1	*
	Aberdeen † ...	18·1	+4	NW	2	bc	54	85	48	8	7	-	6	4·6	7·8	2800	1	1
	Wick ...	17·3	+10	W'S	2	bc	54	85	49	9	5	-	1	4·6	4·6	4000	1	*
16	Sumburgh ..	14·1	-2	SW'W	4	cjp	53	92	51	8	8	-	-	9+	9+	2500	0	3
17	Blacksod Point	20·5	-18	SW	2	RR	54	92	52	6	-	2	-	10	10	800	2	2
18	Malin Head ...	19·6	-6	SW'S	3	c/pr	54	85	50	8	9	2	-	7·8	10	2500	1	2
	Aldergrove ...	22·1	+8	WSW	3	c	54	85	50	8	5	2	-	7·8	10	3500	1	*
19	Birr Castle ...	23·7	+2	W	1	ir	54	92	52	7	6	2	-	7·8	10	800	0	*
20	Valentia Obsy.	24·8	-6	SW'S	4	c	58	85	53	8	5	7	-	2-3	10	1500	1	3
	Roches Point	24·8	-2	W	1	bc	54	85	50	8	5	3	-	2-3	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 14th. Hrs. (38)
1	London (Kew)	69	52	42	-	Tr	3·7
	Croydon ...	70	49	47	-	Tr	4·2
	S. Farnborough	69	49	40	-	-	4·7
	Boscombe Down	66	48	44	-	Tr	5·7
	Thorney Island	73	50	46	-	-	*
	Lympne ..	71	47	*	Tr	Tr	3·6
	Manston ...	69	54	52	0·1	-	4·2
2	Shoeburyness ...	72	51	45	Tr	-	4·9
	Felixstowe ...	71	57	49	-	-	5·0
	Gorleston ...	65	52	50	-	0·3	4·4
	Mildenhall ...	70	48	43	-	0·3	6·0
	Cranwell ...	*	48	45	Tr	Tr	4·4
3	Birmingham ...	66	50	43	-	0·1	6·1
	Upper Heyford	67	48	42	-	-	*
4	Ross-on-Wye	65	48	40	-	-	7·4
5	Hartland Point	62	55	53	-	-	7·6
	Bristol ...	65	47	35	-	-	5·9
	Portland Bill ...	62	55	*	-	-	*
	Plymouth ...	64	47	39	Tr	-	3·4
	The Lizard ...	63	51	*	-	-	5·8
	Scilly (St. Mary's)	64	55	*	-	-	7·2
	Guernsey ...						
6	Pembroke ...	60	49	*	-	-	7·7
7	Holyhead (Valley)	63	51	46	Tr	-	*
	Chester (Sealand)	65	53	48	Tr	-	7·2
8	Manchester ...	63	47	39	0·4	Tr	*
10	Spurn Head ...	69	53	*	-	-	4·8
	Catterick ...	66	50	44	0·3	0·1	4·2
	Tynemouth ...	67	50	48	-	0·3	*
11	St. Abbs Head	62	52	*	Tr	-	*
	Leuchars ...	64	49	45	2	Tr	5·0
12	Renfrew (Abbots L.)	61	47	42	1	-	4·8
	Eskdalemuir ...	59	46	37	5	-	2·2
	Point of Ayre...	67	53	*	1	-	0·5
13A	Tiree	60	51	*	2	Tr	7·6
13B	Stornoway ...	60	51	*	2	0·3	5·7
15	Dalwhinnie ...	58	46	44	2	2	1·8
	Aberdeen † ...	64	49	46	5	-	1·4
	Wick ...	61	43	40	14	2	*
16	Sumburgh ..	58	51	46	-	-	6·8
17	Blacksod Point	62	53	*	0·3	18	*
18	Malin Head ...	60	52		0·5	0·3	7·8
	Aldergrove ...	61	52	49	13	-	3·9
19	Birr Castle ...	66	52	49	0·5	0·3	6·1
20	Valentia Obsy.	62	54	49	0·2	Tr	5·1
	Roches Point	65	52	*	Tr	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 14th July $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 15th July $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	87	02955	20225	86	00963	24323	57	01843	21313	5-	21857	21457
115				84	02944	20225	52	02844	24426	52	81734	24487
203	84	02945	20566	8-	02945	20425						
206	87	25965	22336	83	02966	24287	50	01963	24113	53	02576	22317
210	77	10954	21327	87	81844	25386	5-	02965	25425	53	02973	19315
220	37	82758	25488	80	01854	24214						
230	82	81956	20387	8-	01954	23384				5-	61957	19267
245	80	02963	22317	9-	81965	24385	5-	01965	24115	03	01990	23114
260	--	02856	23317	24	01754	24385	5-	01863	23213	50	01762	23113
278	5-	81647	24387	97	01853	26584	5-	01864	25314	5-	02858	24318
279	87	02854	55427	90	25855	26385	50	00861	26301	57	02854	22225
285										23	01743	28414
288	7-	02967	54427	26	81865	55487	40	00761	22211	83	02865	24327
575	23	02855	26585	20	10856	59526	50	02864	30315	52	62764	24468
301	57	02834	24424	86	02955	26386	50	00842	28412	27	02854	28426
321	8-	02766	28326	86	02856	26327				50	05662	26318
299	81	02755	28226	80	02766	00016	50	01763	24113	44	00761	24102
292	83	02965	24327	83	02966	57427	50	00761	28111	83	01861	28215
310	--	01636	24316							--	01634	26414
614	87	05665	30227	77	01764	22325	00	05680	30100	70	05652	26115

III	13h. G.M.T. 14th July $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 15th July $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
338				86	10864	26384	40	00861	32101	53	01843	26216
334	--	51646	28228									
340	8-	02965	28228	3-	10955	28315	50	00872	26202	83	02953	28127
136	8-	05653	23218	57	05665	26327	5-	02767	27427	10	01761	28411
336	57	02755	28428	23	25754	28486				23	01763	24415
350	86	02754	23417	8-	02876	17962	00	00790	22210	14	00741	25301
368	23	02854	24417	86	01954	24415	04	00790	24201	84	00752	24203
379	83	02955	28327	80	01954	26424	00	00880	24310	73	01944	30204
390	26	02764	26227	57	05673	28327	00	05690	25210	10	00751	26301
882	70	02865	24326	23	01863	26423	50	00861	25211	14	00961	27302
438	57	02744	22415	87	02754	22427	40	01752	22312	04	01790	30313
430	80	02864	26317	59	02761	27327	00	00780	26200	00	00890	26300
409	7-	02968	27424	10	01953	28313	00	05690	28300	20	01854	28214

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 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	cmocy	cy	bcbw	
Croydon ...	cbcc	cyc	bc	
Greenwich ...	cy	cy	cmocy	Kew 24 hours ended 7h. Max. 0·1 Time 47h 15th
Camden Square	c	c	*	
Kensington ...	bc	c	*	Min. <0·1 Time 0-31 15th
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	69	52	42	-	Tr	3·7	*	*
Croydon ...	70	49	47	-	Tr	4·2	*	*
Greenwich ...	71	53	43	-	-	3·0	47	52
Westminster ..	71	53	49	-	-		51	65
Regents Park ...	72	52	48	-	-		57	59
Camden Square	71	53	47	-	-	*	*	56
Kensington ..	72	52	43	0·1	-		55	58
Hampstead ..	70	49	45	-	-		*	69

SECRET

Page 1

BRITISH SECTION

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

Thursday 16th July 1942

No. 29456

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)	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)	23.5	+4	NW	2	c	65	45	44	8	8	3	6	7-8	9+	2500
	Croydon ...	23.1	+2	NNW	4	c	66	55	50	8	1	3	6	4-6	9	2500
	S. Farnborough	23.7	+2	W'N	3	c	66	55	47	8	7	3	-	4-6	9+	3000
	Boscombe Down	24.1	+2	NNW'N	4	c	64	55	49	8	4	1	-	4-6	9+	4000
	Thorney Island	23.6	-2	N'N	3	c	68	45	48	8	2	6	6	7-8	9+	2500
	Lympne ...	22.9	+4	NW	3	c	66	55	48	8	1	7	9	4-6	9	4000
	Manston ...	22.8	+8	NNW	3	bc	65	65	55	8	2	7	9	1	4-6	2500
2	Shoeburyness ...	22.9	+2	NNW'W	3	c	67	45	47	8	2	3	2	4-6	9+	2500
	Felixstowe ...	21.8	+6	NNW'N	3	c	65	55	48	8	7	-	2	9	9+	2500
	Gorleston ...	21.2	+6	NNW'N	2	bc	63	65	50	7	8	-	-	4-6	4-6	2500
	Mildenhall ...	22.1	+2	W	3	c	65	55	48	7	7	7	-	7-8	9+	2000
	Cranwell ...	21.7	+2	W	4	2o	65	55	48	6	8	6	6	9	9+	3000
3	Birmingham ...	22.7	0	NNW	2	c	62	55	46	8	8	-	-	9+	9+	2500
	Upper Heyford	22.7	-1	NNW	3	c	65	55	48	8	2	3	6	7-8	9	2500
4	Ross-on-Wye	23.6	0	NW	4	c	63	55	46	8	7	7	8	4-6	9+	3500
5	Hartland Point	25.6	-2	WNW	3	c/r	59	75	51	8	5	2	-	4-6	9+	1500
	Bristol ...	24.8	0	NW	4	c	62	65	49	8	1	1	-	4-6	10	2500
	Portland Bill ...	25.3	+6	SW	3	c	60	92	58	8	5	-	-	10	10	4000
	Plymouth ...	26.2	-6	NW	3	c	64	65	51	8	5	2	-	4-6	9+	3000
	The Lizard ...	27.3	+2	W	3	bc	63	75	56	8	2	6	-	4-6	4-6	2600
	Scilly (St. Mary's)	27.5	+2	W'S	3	bc	64	75	55	8	8	4	-	2-3	4-6	1800
	Guernsey ...															
6	Pembroke ...	25.4	-4	W'S	5	r+	55	92	53	6	5	-	-	9+	9+	2500
7	Holyhead (Valley)	23.4	+2	SW'S	4	c	58	75	49	8	8	1	-	4-6	10	5700
	Chester (Sealand)	22.9	-2	NW'N	3	c	61	65	50	8	5	1	8	7-8	10	3000
8	Manchester ...	22.5	+2	W'N	4	c	61	55	45	8	2	3	6	9	9	3500
10	Spurn Head ...	21.4	+6	E	3	c	60	75	50	7	1	6	-	4-6	7-8	2500
	Catterick ...	21.4	+6	NSW	3	c	62	65	48	9	5	-	-	10	10	4000
	Tynemouth ...	20.4	-4	W	3	c	65	55	46	7	2	3	-	4-6	7-8	2800
11	St. Abbs Head	18.6	+2	E	1	c	58	75	50	8	5	4	-	10	10	3500
	Leuchars ...	17.6	-10	WSW	4	c	63	75	54	8	8	-	-	9	9	3200
12	Renfrew (Abbotsl.)	18.4	-14	WSW	3	c	59	75	51	8	5	2	-	7-8	10	2500
	Eskdalemuir ...	19.3	-8	SSW	4	c	57	97	57	8	5	-	-	10	10	2500
	Point of Ayre ...	21.1	-6	WSW	4	c	62	55	46	8	1	7	7	Tr	10	2500
13A	Tiree ...	16.5	-24	S'W	4	c/d	56	92	52	7	5	1	-	10	10	1000
13B	Stornoway ...	13.3	-20	SSW	5	r+	54	92	52	8	5	2	-	7-8	10	2000
15	Dalwhinnie ...	17.2	-2	SSW	3	c	56	65	45	8	8	4	-	7-8	9	2500
	Aberdeen ...	17.4	-8	S	4	c	58	85	53	7	7	-	6	7-8	7-8	3400
	Wick ...	14.4	-18	SW	3	c	59	65	46	9	5	-	-	9+	9+	4000
16	Sumburgh ...	15.2	+1	SW'W	3	c	56	85	51	8	8	-	-	9+	9+	3000
17	Blacksod Point	18.0	-10	SW	4	d/c	59	97	58	6	-	2	-	10	10	800
18	Malin Head ...	15.8	-18	S	5	r+	54	92	52	8	6	2	-	4-6	10	1500
	Aldergrove ...	19.2	-22	SSW	3	r+	55	92	52	8	6	2	-	4-6	10	900
19	Birr Castle ...	20.6	-22	SSW	1	c	57	97	56	8	6	2	-	7-8	10	1500
20	Valentia Obsy.	23.6	-6	SW'W	4	2o	62	92	60	6	5	-	-	10	10	800
	Roches Point	23.3	-14	SSW	3	c	59	92	57	8	6	2	-	4-6	9+	1500

OBSERVATIONS at 18h. 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. (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)	22.4	-8	WNW	3	c	67	45	46	8	8	3	-	7-8	7-8	2500	1	*
	Croydon ...	22.3	-6	W	3	bc	67	55	50	8	1	4	1	4-6	4-6	2500	0	*
	S. Farnborough	22.8	0	W	4	bc	67	55	49	8	1	3	-	4-6	7-8	3000	0	*
	Boscombe Down	23.7	+2	WNW	4	bc	63	55	48	8	4	5	-	1	4-6	3500	0	*
	Thorney Island	23.2	-8	SW	4	bc	66	65	53	9	2	6	4	4-6	7-8	4000	0	*
	Lympne ...	22.6	-6	N'W	1	bc	66	55	49	7	4	3	1	4-6	7-8	5000	0	4
	Manston ...	22.5	-8	W'N	1	bc	65	75	55	7	-	7	1	0	4-6	-	1	*
2	Shoeburyness ...	22.1	-8	W'N	1	bc	67	55	50	7	1	3	8	1	7-8	2500	0	*
	Felixstowe ...	21.7	-6	W	3	c	67	55	48	7	1	7	2	Tr	9	4000	0	2
	Gorleston ...	22.4	+6	S'W	3	bc	60	73	51	7	2	-	-	4-6	4-6	2000	0	2
	Mildenhall ...	21.1	-12	W	2	c	67	55	48	8	4	7	-	Tr	7-8	4000	0	*
	Cranwell ...	20.9	-2	W	3	c	65	55	48	7	5	7	2	4-6	10	3500	0	*
3	Birmingham ...	21.9	-4	W	3	c	60	55	44	8	5	7	-	9	10	2500	1	*
	Upper Heyford	22.3	0	W	4	c	65	55	47	8	4	7	8	2-3	9	3500	0	*
4	Ross-on-Wye	23.0	-6	W	4	c	60	65	48	8	5	-	-	9+	9+	3000	0	*
5	Hartland Point	22.9	-22	WSW	3	id	57	97	56	7	6	2	-	7-8	10	1200	1	3
	Bristol ...	24.9	+2	W	2	c	59	95	51	8	1	7	-	4-6	10	2500	0	*
	Portland Bill ...	24.2	-6	W	2	c	60	92	57	8	5	-	-	10	10	2500	1	2
	Plymouth ...	25.6	-4	WNW	3	c	60	85	54	7	5	7	-	7-8	10	1800	0	2
	The Lizard ...	25.6	-8	W	5	c	59	85	55	8	8	2	-	9	10	1500	0	4
	Scilly (St. Mary's)	26.0	-8	WSW	4	c	60	85	55	8	5	7	-	7-8	10	1400	0	3
	Guernsey ...																	
6	Pembroke ...	22.2	-8	SW'W	5	r+	57	97	57	6	8	1	-	9+	9+	2500	1	3
7	Holyhead (Valley)	19.6	-24	S	4	r+	55	92	53	5	5	-	-	10	10	500	1	3
	Chester (Sealand)	20.7	-6	S'W	2	r o r o	58	85	52	7	5	7	-	4-6	9+	4000	1	*
8	Manchester ...	20.6	-8	-	0	r o r o	58	75	51	7	5	2	-	2-3	10	4000	1	*
10	Spurn Head ...	20.5	-2	SE	3	c	60	85	54	7	1	3	-	2-3	10	2500	0	2
	Catterick ...	19.8	-6	SW	2	ir o	58	65	47	8	5	2	-	7-8	10	2500	0	*
	Tynemouth ...	19.2	-6	WSW	3	c	62	55	48	7	8	-	-	9	9	2800	0	2
11	St. Abbs Head	15.5	-12	SW	4	ir o	57	75	47	8	5	2	-	7-8	9+	4000	0	2
	Leuchars ...	15.1	-18	SW	3	r o r o	57	92	56	6	5	2	-	7-8	10	2500	1	*
12	Renfrew (Abbotsl.)	14.6	-26	SSW	3	r+	55	97	54	5	5	-	-	10	10	1800	1	*
	Eskdalemuir ...	17.0	-14	SW	5	iR	52	92	49	7	6	2	-	7-8	10	900	1	*
	Point of Ayre ...	17.5	-20	SW'S	4	r o r o	56	92	53	7	6	2	-	7-8	10	800	1	3
13A	Tiree ...	10.2	-20	WSW	4	id o	57	97	57	6	5	-	-	9+	9+	400	1	4
13B	Stornoway ...	07.5	-26	S	7	dd	54	97	53	7	5	-	-	10	10	1000	1	-
15	Dalwhinnie ...	13.2	-16	S	3	c	51	85	47	7	5	-	-	10	10	1500	0	*
	Aberdeen ...	13.9	-12	SW'W	4	c/r	59	65	47	8	-	7	-	0	9+	-	1	2
	Wick ...	12.8	-6	S	3	c	55	85	49	8	8	2	-	4-6	10	3500	1	*
16	Sumburgh ...	13.7	-4	SSE	2	c	52	92	50	9	5	1	-	7-8	10	2500	0	3
17	Blacksod Point	16.9	-6	WSW	5	id o	59	97	58	6	-	2	-	10	10	800	2	4
18	Malin Head ...	12.9	-4	WSW	5	ir	59	92	57	7	6	2	-	4-6	10	800	1	3
	Aldergrove ...	15.8	-6	S	1	id o	57	97	56	6	-	2	-	10	10	1000	1	*
19	Birr Castle ...	18.8	-6	SSW	3	ir	62	92	60	7	6	2	-	7-8	10	1500	1	*
20	Valentia Obsy.	22.6	-6	WSW	4	2o	60	97	59	6	5	-	-	10	10	220	1	4
	Roches Point	20.7	-8	W'S	4	bc	65	85	60	8	5	3	-	1	4-6	2500	1	3

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 15th (39)	Weather 13h.—18h. 15th (40)	Weather 18h.—1h. 15th to 16th (41)	Weather 1h.—7h. 16th (42)
1	London (Kew)	bccy	cy	bccr o c	ir Rid o
	Croydon ...	bcycy	cybcy	bcybccir o	d o d o tir
	S. Farnborough	bwbccy	cbcy	bcpRc	cpR r o m o
	Boscombe Down	c	bcy	bccir o	clid o c
	Thorney Island	bbccy	bcybc	c	cd o d o cm o
	Lympne ...	bcy	cbcy	bcyccpr o	omr o r o RR
	Manston ...	b m o bbcc	bc	bcm o	cm o r RR
2	Shoeburyness ...	bbccy	cybcy	bcycm o	cr o r o m o
	Felixstowe ...	bcm o ccy	bcyc	cycm o cir o m o	cm o ir o r o
	Gorleston ...	bc	bc	bccpr o	oir o cir o
	Mildenhall ...	bbccy	cybcycy	bccr o r o crr	crrcm o
	Cranwell ...	bm o cy 2o	cyr o r o	ccr o r o crr	crrcm o
3	Birmingham ...	cbcc	c	cir o	cr o
	Upper Heyford	bcc	cybcy	om o om o	oid o ir o m o
4	Ross-on-Wye	bccy	cyc	p o cp o	c
5	Hartland Point	bcir o	crdc	d o d o cF	ffoc
	Bristol ...	cyc	bcycr	cir o d o d o	cd o d o r o m o
	Portland Bill ...	c	c	c	c
	Plymouth ...	c	cir o c	cir o rrc	om o cwm o
	The Lizard ...	bc	bcc	com o	oifo
	Scilly (St. Mary's)	bcbc	bcc	cbcc	c
	Guernsey ...				
6	Pembroke ...	errm o	cir o	qifmo	cqm o ir o
7	Holyhead (Valley)	c	crrm o	crrm o	cr o d o rd
	Chester (Sealand)	cyc	cir o r o r o	cirid o m o	cr o r o idm o
8	Manchester ...	cm o wc	c	r o r o rrr	rrr o r o
10	Spurn Head ...	c	c	cr o	cr o
	Catterick ...	cbccyc	cycir o	crrr o r o m o	cr o r o m o c
	Tynemouth ...	cbcc	c	cor o r o	oir o m o
11	St. Abbs Head	bcbb cc	cir o	cir o	c
	Leuchars ...	bcc	cir o r o m o	r o r o m o c	c
12	Renfrew (Abbotsl.)	bcirc	cr o r o rr	cid o cm o	cid o c
	Eskdalemuir ...	bcc	cr o r o	corr	orcr o
	Point of Ayre ...	cy	cr o r o	rrc	rrc
13A	Tiree ...	cir o d o	odrd	odr	c
13B	Stornoway ...	cprrrr	errodd	ocrrdd	ocid o
15	Dalwhinnie ...	bcc	co		opr o c
	Aberdeen ...	bcc	cbcir o	cir o	cir o
	Wick ...	c	cpr o	cr o ir o r o m	r o r o cd o c
16	Sumburgh ...	cpr o c	c	cr o r o rrm o	crrddar
17	Blacksod Point	d	d	d	bc
18	Malin Head ...	r	r	d	d
	Aldergrove ...	weid o cir o	cir o rrid o r o id o cd o	cir o rrid o	
19	Birr Castle ...	r	r	*	pr
20	Valentia Obsy.	d	o	c	pr
	Roches Point	r	o	bc	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 16th July 1942

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	Moderate West wind veering Northwest, fresh; cloudy with local rain at first; bright intervals; local thundery showers later; becoming cooler.
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	Variable winds becoming Northwest; moderate or fresh; cloudy; occasional rain; local thunder; cool.
16 Orkneys and Shetlands	11-15
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1-10

GENERAL INFERENCE

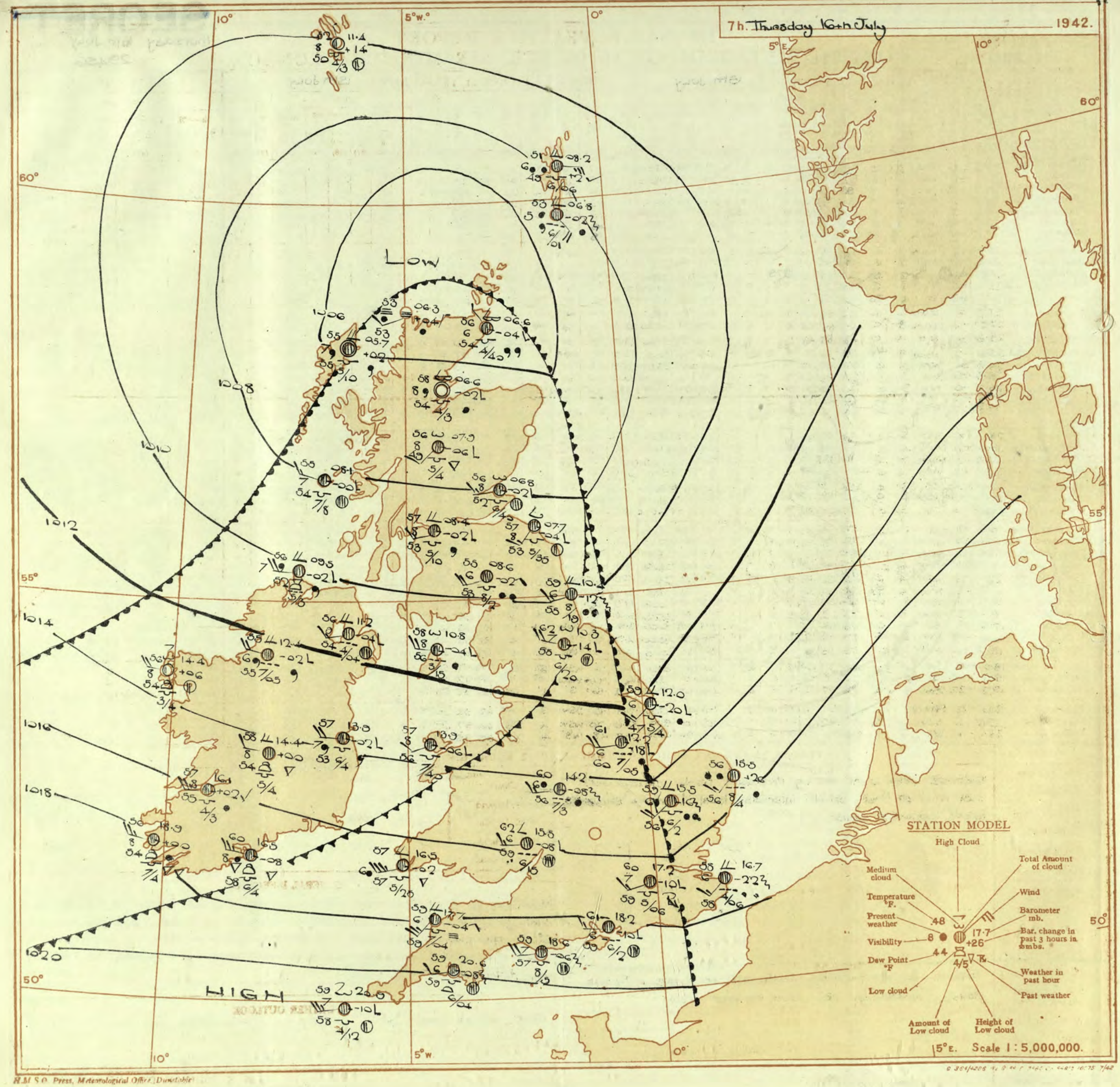
Pressure is high from the Azores to the Bay of Biscay; a depression centred immediately to the north of Scotland is moving east-southeast associated troughs will cross the British Isles. It will be cloudy with local rain mainly on coasts and high ground, improving generally to showery conditions during the night.

FURTHER OUTLOOK

Fair in the West; bright intervals and showers in the East.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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).

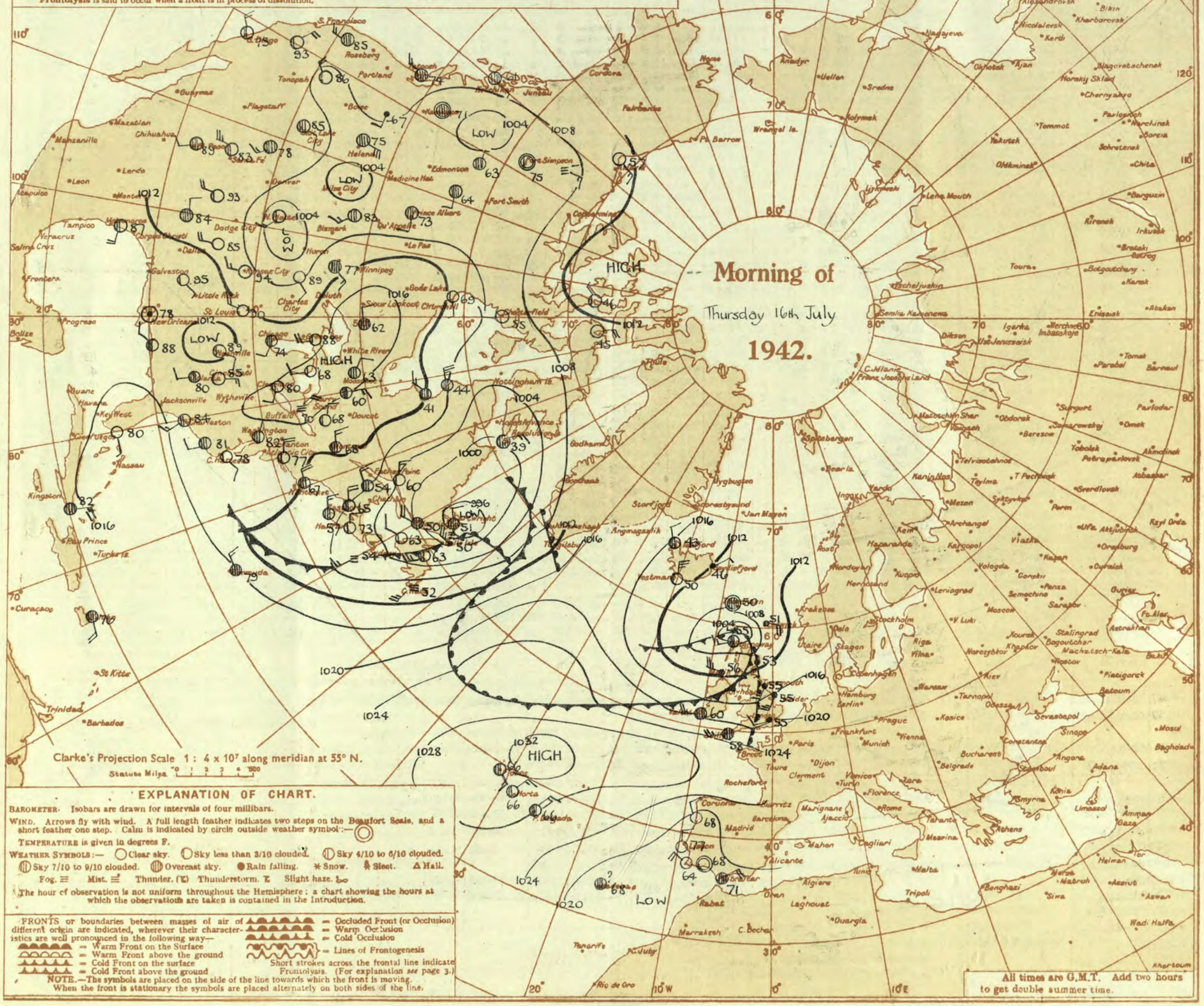
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Thursday 16th July 1942

No. 23456

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)	°F. Dew Point (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	57	*	*	*	*	*	*	*	*	*
	Croydon	290	21·1	-14	WSW	2	ir₀	55	92	53	7	-	2	-	10	10	3800
	S. Farnborough	226	20·9	-22	SSW	3	PR	57	85	53	7	5	-	-	10	10	2000
	Boscombe Down	417	21·0	-20	SW	3	c	56	92	55	7	5	-	-	10	10	600
	Thorney Island	10	21·4	-18	WSW	4	c	59	85	54	8	5	-	-	4-6	10	1500
	Lympne	283	22·1	-6	—	0	pr₀	56	92	53	7	8	-	-	10	10	3500
	Manston	154	20·7	-12	SW	1	z₀	57	92	55	6	-	7	-	0	4-6	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	20·0	-12	SW'W	2	c/r	60	85	55	6	-	7	-	0	9+	-
	Gorleston	5	19·7	-12	SW'W	2	pr	59	85	52	6	8	-	-	10	10	1500
	Mildenhall	15	19·1	-14	SW'S	3	rr	55	85	52	7	5	2	-	4-6	10	4000
	Cranwell	203	16·9	-26	SW'S	3	rr	55	97	54	6	5	2	-	4-6	10	1500
3	Birmingham	538	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18·9	-26	SW'S	3	z₀	55	97	54	6	5	-	-	10	10	700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	20·1	-12	WSW	4	F+	59	97	59	1	-	-	-	10	10	<150
	Bristol	209	20·5	-22	SSW	4	d₀d₀	58	97	57	5	-	2	-	10	10	800
	Portland Bill	32	21·3	-24	WSW	4	o	52	92	50	7	5	-	-	10	10	2500
	Plymouth	82	23·4	-10	W'S	3	o/r	60	97	58	7	5	-	-	10	10	1000
	The Lizard	240	24·1	-8	W	4	o	58	97	58	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	23·5	-10	WSW	5	c	58	97	56	7	5	-	-	10	10	1400
	Guernsey	175															
6	Pembroke	142	19·2	-16	WSW	6	oq	58	97	58	4	5	-	-	10	10	800
7	Holyhead (Valley)	32	15·5	-14	SW'S	5	z₀	59	97	58	6	5	7	-	7-8	10	1900
	Chester (Sealand)	16	15·3	-24	SW'W	2	c	61	85	58	6	5	-	-	9+	10	2500
8	Manchester	235	15·5	-30	'S'E	4	c/r	56	97	55	6	5	2	-	9	10	1000
10	Spurn Head	29	16·4	-30	SSW	5	r₀r₀	55	92	52	6	5	2	-	7-8	10	1500
	Catterick	175	14·3	-28	SSW	3	o/r	54	97	54	5	5	-	-	10	10	2000
	Tynemouth	108	13·8	-22	SSW	3	r₀r₀	55	92	52	6	-	2	-	10	10	1500
11	St. Abbs Head	280	10·0	-18	SW	6	c	54	97	54	7	1	5	-	7-8	9+	4000
	Leuchars	36	08·6	-30	SW	1	c	57	97	57	8	5	7	-	7-8	9+	2000
12	Renfrew (Abbots I.)	19	10·1	-14	W'S	3	c/d	57	92	55	6	5	2	-	7-8	10	1800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	13·2	-14	W	4	rr	59	97	58	7	8	2	-	9	10	800
13A	Tiree	22	09·1	-4	WSW	2	c/d	55	97	55	7	5	-	-	9	9	1500
13B	Stornoway	80	05·4	+10	WSW	3	c/d	55	97	55	7	5	2	-	7-8	10	1000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	08·3	-26	S	1	r₀r₀	53	97	52	6	5	2	-	9	10	1500
	Wick	114	07·3	-18	S'E	3	r₀r₀	54	92	52	6	5	2	-	9	10	1500
16	Sumburgh	19	09·3	-22	SE'E	4	r₀r₀	54	92	52	7	5	2	-	9	10	900
17	Blacksod Point	18	14·8	+10	WSW	5	c/d	57	92	55	7	8	2	-	4-6	7-8	2500
18	Malin Head	84	12·2	-14	W	5	d₀d₀	56	92	54	5	-	2	-	10	10	800
	Aldergrove	268	12·5	-16	SW	3	d₀d₀	59	97	56	6	5	2	-	9+	10	1200
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	20·2	-18	W'S	5	z₀	60	92	58	6	5	-	-	10	10	800
	Roches Point	22	19·1	-14	SE'S	3	bc	59	92	57	8	5	-	-	2-3	2-3	1500

OBSERVATIONS at 7 hr. G.M.T. 16th July — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	°F. Dew Point (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Night 18h–7h mm. (37)	Sunshine 15th Hrs. (38)
London (Kew)	16·1	-12	WSW	3	id₀	60	92	58	6	5	-	-	10	10	1500	1	*	69	56	53	-	2	10·2
Croydon	17·2	-10	WSW	3	c	60	92	59	7	5	-	-	7-8	10	600	1	*	70	53	52	-	2	11·2
S. Farnborough	16·9	-14	WSW	5	c	61	92	59	6	5	2	-	9	10	600	1	*	70	55	51	-	1	9·8
Boscombe Down	17·5	-14	WSW	2	c	62	85	59	8	5	3	-	4-6	7-8	1000	0	*	66	55	50	-	Tr	8·6
Thorney Island	18·2	-10	W	3	z₀	61	92	59	6	6	-	-	9	10	450	0	*	71	58	55	-	Tr	*
Lympne	18·6	-16	SSW	3	r₀r₀	59	97	58	4	-	2	-	10	10	200	1	§4	66	53	*	-	4	10·0
Manston	16·7	-22	SW'S	3	c/r	58	97	58	6	6	2	-	4-6	10	600	1	*	67	54	52	-	5	11·7
Shoeburyness	16·5	-10	SW	3	r₀r₀	59	97	58	6	5	-	-	10	10	1000	1	*	70	55	54	-	2	11·1
Felixstowe	15·7	-22	SW'W	3	r₀r₀	58	97	57	5	5	2	-	9	10	800	1	2	70	56	54	-	5	11·8
Gorleston	15·5	-26	SW	3	r₀r₀	56	92	54	6	6	-	-	10	10	1500	1	3	65	55	53	-	0·6	9·9
Mildenhall	15·5	-16	SW	4	c/r	59	97	58	6	6	8	-	9	10	500	1	*	69	59	53	-	14	10·2
Cranwell	12·2	-18	W'S	4	z₀	61	97	60	8	6	-	-	9+	9+	500	1	*	*	53	53	-	7	9·8
Birmingham	14·2	-8	WSW	3	ir₀	60	85	55	6	6	-	-	9+	9+	800	1	*	66	54	52	-	1	4·5
Upper Heyford	15·5	-10	SW'S	3	z₀	61	92	59	6	5	3	-	9	9+	600	1	*	68	55	54	-	0·5	*
Ross-on-Wye	15·5	-8	W'S	3	c	62	85	59	6	6	1	-	7-8	10	1500	0	*	66	56	56	-	0·3	5·3
Hartland Point	17·7	-4	SW	5	c	59	97	59	6	5	2	-	9+	10	400	1	4	62	59	57	0·3	1	4·4
Bristol	17·5	-12	W'N	5	id₀	61	85	58	6	5	-	-	10	10	800	1	*	64	56	55	-	0·1	5·5
Portland Bill	18·6	-6	WSW	4	c	59	92	57	7	5	-	-	10	10	2500	1	3	61	51	*	-	-	*
Plymouth	20·6	-8	W'S	2	z₀ †	59	97	59	6	7	-	-	9	9	400	0	2	66	58	58	Tr	0·4	4·8
The Lizard	21·4	-4	W	4	o	58	97	58	6	5	-	-	10	10	600	0	4	64	57	*	-	-	10·4
Scilly (St. Mary's)	20·9	-10	WSW	5	c	59	97	58	7	5	3	9	4-6	9+	1200	0	4	65	58	*	-	-	7·3
Guernsey																							
Pembroke	16·5	-2	W	7	ir₀	57	97	57	6	5	2	-	7-8	9+	2500	1	4	59	52	*	2	Tr	1·9
Holyhead (Valley)	13·9	-6	SW'W	2	c	57	97	56	8	5	-	-	9+	9+	4000	1	2	61	55	55	1	3	*
Chester (Sealand)	13·0	-8	WNW	3	id	62	85	58	6	6	7	-	7-8	9+	400	1	*	65	55	54	0·4	4	3·1
Manchester	12·8	-8	WSW	3	z₀	60	85	57	6	2	3	-	4-6	7-8	2500	1	*	63	54	54	Tr	15	*
Spurn Head	12·0	-20	SW'W	3	c	59	65	47	6	5	2	-	7-8	9+	1500	1	3	63	55	*	-	4	8·3
Catterick	10·3	-14	W	2	c	62	75	55	7	5	3	-	9	9+	2000	1	*	64	53	52	Tr	10	3·9
Tynemouth	10·4	-12	WSW	3	o/r	59	85	55	6	-	2	-	10	10	1900	1	2	67	43	52	-	5	*
St. Abbs Head	07·7	-4	SW	3	c	57	85	53	8	5	4	-	7-8	9+	3500	0	2	63	51	*	-	0·1	*
Leuchars	06·8	-2	WSW	3	c	56	85	52	8	5	3	-	9	9+	4000	0	*	64	52	49	Tr	0·1	7·0
Renfrew (Abbots I.)	08·4	-2	WSW	3	c	57	85	53	8	5	2	-	7-8	9+	1000	1	*	60	54	49	1	1	2·1
Eskdalemuir	08·6	-2	WSW	4	o/r	55	92	53	6	5	-	-	10	10	500	1	*	58	50	47	0·1	4	2·3
Point of Ayre	10·8	-4	W'N	4	c	58	92	56	8	6	3	-	2-3	9+	1500	1	3	65	55	*	1	12	0·3
Tiree	08·1	0	WNW	3	c	55	97	54	7	5	-	-	9+	9+	1800	1	4	58	53	*	1	2	0·0
Stornoway	05·7	+2	—	0	id₀	55	97	55	7	5	2	-	7-8	10	1000	1	1	56	53	*	2	1	0·0
Dalwhinnie	07·9	-6	SW	2	c	56	75	49	8	5	3	-	7-8	9	1500	1	*	59	51	48	-	0·3	2·4
Aberdeen †	06·1	-2	E'S	1	ir₀	57	92	55	7	-	7	-	9	9+	—	1	1	62	53	52	Tr	1	5·1
Wick	06·6	-4	NW	1	c/d	56	92	54	8	5	7	-	4-6	9+	4000	1	*	60	51		0·2	4	*
Sumburgh	06·8	-2	SE'E	4	dr	53	97	53	5	6	2	-	9	10	100	1	4	57	52	50	-	9	2·7
Blacksod Point	14·4	+6	W	4	bc	56	92	54	8	8	3	4	2-3	4-6	1500	1	3	60	55	*	14	1	*
Malin Head	09·5	-2	WNW	4	d	56	85	52	7	9	2	-	7-8	10	800	1	3	60	55		5	1	0·0
Aldergrove	11·2	-4	W'S	3	c	56	97	54	9	6	2	-	4-6	10	400	1	*	58	55	54	7	2	0·0
Birr Castle	14·4	0	WNW	2	c	58	85	54	8	8	2	-	7-8	10	1500	1	*	62	55	54	9	1	0·0
Valentia Obsy.	18·9	0	WNW	5	c/pr	56	92	54	8	8	-	-	9+	9+	1500	1	4	63	56	55	Tr	1	0·1
Roches Point	16·5	-8	W'N	5	pr	60	92	58	8	8	-	-	9	9	1500	1	3	66	59	*	0·2	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIIC_L C_M (13h. G.M.T. 15th July)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 16th July)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
109 87	25855	22426	52	61852	13228	02	62638	12368	5-	03748	24268
115 52	02844	20426	52	62734	12267	--	67109	20369	--	67109	20269
203			6-	81838	16588	6-	62838	16468			
206 8-	02967	20327	52	02866	20368	53	02866	00057	57	51864	00067
210 77	02964	18227	57	22966	12367	5-	02967	16127	5-	61958	22228
220			62	21426	18358				52	51416	27358
230 57	02954	18268	52	54506	16258	52	02745	18458	62	21804	18258
245 7-	02965	18616	57	51844	20458	5-	02748	17228	5-	61868	23268
260 83	02976	24427	57	22864	23366	5-	22767	20267	53	05644	23315
278 72	02854	20828	5-	64538	18368	52	61647	21341	5-	61848	24458
279 77	02964	21427	62	64645	19468	6-	64538	18468	57	21734	22367
285 5-	03858	24428							6-	63628	26568
288 73	02965	55487	77	02963	20328	52	64554	16468	57	02855	18317
575 52	22847	18468	62	64637	22268	62	62637	57568	62	51627	59458
301 24	02953	24427	52	62774	22468	02	51428	20568	57	02824	24568
321 57	02764	24827	57	05663	24328	62	63444	19368	57	22665	20367
299 80	01754	04241				5-	62648	22468	5-	22648	22268
292 8-	02966	23326	52	02956	23228	02	22658	16268	53	02844	20125
310 --	0634	24414							--	02628	24348
614 21	05654	23328	5-	02754	55328	02	65548	18268	52	51535	26268

IIIC_L C_M (13h. G.M.T. 15th July)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 16th July)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
333 52	61964	20428	52	64637	18368	51	02654	20368	59	22855	20467
334 --	03564	28326							--	21655	28316
340 13	02965	26227	57	62974	20368	5-	22866	18266	5-	02854	22325
136 26	02855	28317	05	05690	23314	62	64678	22268	02	22618	19368
336 57	02756	24428	52	52626	20358				62	64626	26468
350 63	00294	05285	17	22326	21565	02	63548	16368	5-	05628	19368
368 52	02854	24428	52	51744	22368	62	62426	24468	02	52638	24468
379 83	02955	26325	83	02957	24327	5-	22628	20528	5-	05627	20447
390 13	02753	26427	75	02764	25227	02	64490	20368	52	51427	20428
882 86	02965	26326	73	02764	24326	5-	61648	21368	52	51635	22458
438 15	02754	22415	17	02764	24514				--	48009	22549
430 23	02864	26327	53	02865	20415	5-	02668	26328	5-	51428	22358
409 77	02974	24317	5-	02558	20428	5-	21618	21458	5-	05608	22548

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 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
Kew	bccy	cy	bc;irRd
Croydon	bcycy	cybcy	cir,ddtr
Greenwich	cy	c⊕y	clocrorc
Camden Square	bc	c	*
Kensington	bc	bc	*
Hampstead			

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

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	9h % To-day
Kew	69	56	53	–	2	10·2	*	*
Croydon	70	53	52	–	2	11·2	*	*
Greenwich	71	55	49	–	2	8·4	44	84
Westminster	69	56	55	2			61	93
Regents Park	70	55	53	–	3		52	83
Camden Square	71	56	53	–	1	*	*	87
Kensington	71	55	53	–	2		46	87
Hampstead							*	

SECRET

Page 1 BRITISH SECTION

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

Friday 17th July 1942

No. 29457

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)	13.4	-16	WSW	5	c/r	71	65	56	8	8	3	-	9	9+	2500
	Croydon	14.3	-18	WSW	4	bc	71	75	61	8	2	-	9	7-8	7-8	2200
	S. Farnborough	14.6	-8	W'N	5	pr	67	85	61	8	7	7	'	7-8	9	1200
	Boscombe Down	15.8	-8	W'N	5	c/d	65	75	58	8	2	7	-	7-8	9+	1100
	Thorney Island	15.4	-14	SW	4	bc	73	65	60	8	8	-	-	7-8	7-8	2500
	Lympne	16.1	-14	SW	3	c/r	65	92	62	7	6	-	-	9	9	700
	Manston	14.4	-18	W'S	3	c	70	75	62	8	6	2	-	4-6	10	1600
2	Shoeburyness	14.7	-12	WSW	3	c	69	75	60	8	8	-	-	9+	9+	2500
	Felixstowe	13.6	-24	WSW	3	c	69	75	61	7	8	-	-	9+	9+	2500
	Gorleston	13.0	-14	WSW	2	z0	67	85	61	6	2	-	-	4-6	4-6	2500
	Mildenhall	12.2	-12	SW'W	3	pr	67	75	60	7	8	-	-	10	10	1500
	Cranwell	11.3	-6	W	3	c	63	85	58	7	5	7	-	9	9+	2000
3	Birmingham	12.6	-10	WNW	4	c	65	65	53	8	8	7	-	7-8	9	2500
	Upper Heyford	13.2	-10	WSW	6	cjp	67	65	57	8	9	7	-	7-8	9+	1600
4	Ross-on-Wye	13.9	-10	WNW	3	rr	61	92	58	6	-	2	-	10	10	2000
5	Hartland Point	16.6	-6	W	4	c	61	85	57	8	2	2	3	Tv	9	1500
	Bristol	15.8	-10	W'S	6	c	65	75	56	8	5	3	-	9	9+	1500
	Portland Bill	17.0	-10	WSW	4	c	59	92	57	8	2	-	-	7-8	7-8	4000
	Plymouth	18.4	-12	W'S	4	c	64	85	59	7	5	4	-	7-8	9+	2500
	The Lizard	20.0	-6	W	4	c	61	92	58	7	8	6	-	7-8	9+	1500
	Scilly (St. Mary's)	20.1	-6	W'S	5	c	65	85	50	7	5	-	-	9+	9+	1200
	Guernsey															
6	Pembroke	15.9	-2	W	5	cq	59	85	55	6	8	3	-	4-6	7-8	2500
7	Holyhead (Valley)	13.4	-2	SW'W	4	c	60	85	54	9	5	7	-	7-8	9+	4000
	Chester (Sealand)	12.3	-4	WNW	4	c	62	75	53	8	8	7	-	7-8	9+	2000
8	Manchester	11.6	-6	W	4	c	62	65	51	8	2	3	-	7-8	9+	2000
10	Spurn Head	10.7	-4	W	6	c	65	65	53	7	2	3	2	2-3	7-8	2800
	Catterick	09.4	-2	WSW	3	c	63	65	53	9	1	9	-	7-8	9+	2300
	Tynemouth	08.8	-8	W	5	c/pr	63	75	55	7	8	-	-	9	9	2200
11	St. Abbs Head	06.9	-4	W	3	c	63	75	54	8	8	4	-	7-8	7-8	4600
	Leuchars	06.1	-6	WNW	3	c	66	85	59	8	8	3	-	4-6	7-8	3000
12	Renfrew (Abbots I.)	08.4	0	W'N	4	c	62	85	57	8	5	7	-	7-8	9+	1200
	Eskdalemuir	07.9	-6	W	3	c/r	59	85	53	8	5	-	-	10	10	1800
	Point of Ayre	11.1	0	NW	4	c/pr	58	97	58	8	8	7	6	4-6	9+	1500
13A	Tiree	10.0	+16	N	6	r0r0	55	92	53	6	-	2	-	10	10	600
13B	Stornoway	09.6	+28	NNW	6	pr	55	92	52	8	5	2	-	7-8	10	1000
15	Dalwhinnie	07.8	+4	NW	2	o	58	75	50	8	5	2	-	4-6	10	1500
	Aberdeen	06.5	+2	NE	3	pr	61	85	57	8	2	7	-	7-8	9	1900
	Wick	07.0	+2	NE	3	c/d	59	85	55	8	5	7	-	7-8	10	1500
16	Sumburgh	07.6	+2	E	4	c/d	54	97	53	6	6	2	-	9+	10	600
17	Blacksod Point	17.5	+22	NNW	5	bc	60	75	52	8	8	-	-	4-6	4-6	1500
18	Malin Head	12.2	+16	NNW	5	c/d	57	85	52	7	9	2	-	7-8	10	800
	Aldergrove	11.5	0	W'S	4	ir0	61	85	55	6	8	3	-	9	9+	1500
19	Birr Castle	14.8	+2	WNW	3	c	61	85	56	8	8	2	-	7-8	9	1500
20	Valentia Obsy.	19.8	+6	NW	4	c/pr	60	85	55	8	8	-	-	7-8	7-8	2500
	Roches Point	16.6	-4	WNW	5	c	62	85	57	8	8	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 16th 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. 16th (39)	Weather 13h.—18h. 16th (40)	Weather 18h. 16th to 1h. 17th (41)	Weather 1h.—7h. 17th (42)
London (Kew)	13.0	0	WNW	4	c/r	64	65	52	8	8	-	-	9+	9+	2500	1	*	id0cr0c	cyir0c	c	rr0ir0c
Croydon	13.3	-2	W'S	4	c	66	65	52	8	5	4	-	9	9+	2000	1	*	cid0bc	cpvc	ccid0	id0c0r0
S. Farnborough	13.5	-6	WNW	4	ir0	65	65	53	8	7	7	-	9	9+	2000	1	*	cm0bccpR	cprcycir0	cbc	bcrrr0c
Boscombe Down	14.6	-2	W'N	4	c	62	65	51	8	7	4	-	7-8	9+	2000	0	*	cir0c	bcyc	c	cbcc
Thorney Island	14.5	-4	W'S	4	c/pr	65	75	58	7	8	6	6	4-6	9	1200	0	*	bc	bcpr0c	cpr0c	c
Lympne	14.1	-10	SW	3	c	64	85	59	7	2	9	-	4-6	9	900	1	§5	r0r0d0bc	bccmpx	ccm0	cmrrr0r0
Manston	12.2	-12	SW	4	c	66	92	63	7	8	5	3	4-6	9+	2000	1	*	ciRm0c	cpr0pR	ccm0	cir0m0pr0
Shoeburyness	12.4	-10	SW'W	3	c	69	65	54	8	8	5	2	2-3	9+	2500	0	*	r0r0id0c	cbcc	c	c
Felixstowe	11.6	-10	W'N	3	c	67	75	53	8	5	-	-	10	10	2500	1	3	cr0r0m0c	cpbrm0c	ccir0c	ccid0c
Gorleston	11.3	-10	W	2	c/pr	64	85	60	7	8	7	-	7-8	9	1300	1	3	cr0r0m0	bcz0cpr	cbcm0	c
Mildenhall	11.0	-6	WSW	3	c/pr	63	75	55	8	3	7	-	4-6	10	2500	1	*	ccpr0	cpr0c	c	bcqccid
Cranwell	10.2	-2	W'N	5	bc	64	75	54	7	8	3	-	4-6	7-8	3500	0	*	cm0d0d0c	cbcc	bccd0d0m0	d0d0cm0
Birmingham	12.3	-2	WNW	3	c	61	75	53	8	8	7	-	7-8	9+	2500	1	*	cpr	cbcc	cpr0	cr
Upper Heyford	12.7	-2	W'N	5	cjp	63	65	52	8	9	6	-	7-8	9+	2500	1	*	cm0djpc	ccpr0c	ccid0m0	c
Ross-on-Wye	13.8	-4	W'S	2	c	61	75	52	8	5	-	-	9+	9+	3000	1	*	d0cr	Rcc	cd0c	c
Hartland Point	15.9	0	WNW	3	c	59	85	55	8	5	2	-	9	9+	1500	1	4	cd0rc	cp0	cd0	c
Bristol	15.2	-2	W	5	c	61	75	55	7	5	2	-	4-6	10	1500	0	*	cddid0	c	cm0d0d0ir0	c
Portland Bill	15.4	-12	WSW	4	c	58	92	56	7	5	-	-	10	10	4000	1	4	cc	c	c	
Plymouth	17.4	-8	WNW	4	id0	62	75	55	9	5	-	-	10	10	1200	0	3	cm0c	cd0d0cid0	cr0r0pr0	cpr0c
The Lizard	18.3	-8	W	5	c	59	97	58	8	8	6	-	7-8	7-8	1500	1	4	coc	oldc	c	c
Scilly (St. Mary's)	18.9	-4	WNW	5	bc	61	75	54	8	8	4	3	2-3	4-6	1200	0	4	c	cd0cbc	bcc	cp0
Guernsey																					
Pembroke	15.4	-2	W	5	cq	58	92	56	7	5	6	-	7-8	9	2500	1	3	cq	cq	cbcq	jpcq
Holyhead (Valley)	13.5	+2	WNW	3	c/r	59	85	54	8	5	-	-	10	10	1000	1	2	c	cir0	cpr0	cpr0c
Chester (Sealand)	12.0	0	WNW	4	cjp	62	75	55	8	8	1	-	7-8	10	1800	0	*	cRqd0	c	m0r0	crrm0
Manchester	11.5	-2	W	4	c	60	75	52	7	2	7	-	9	10	2500	1	*	cm0id0	c	cir0m0	d0d0r0r0
Spurn Head	09.9	-2	W'N	5	c	63	75	55	7	5	7	-	2-3	7-8	2500	0	3	c	c	c	crr
Catterick	08.6	-4	WNW	3	c	64	65	52	9	8	3	-	4-6	9	2000	1	*	c	c	cbcc	cr0r0crrc
Tynemouth	08.7	-2	W	4	c/pr	62	85	57	6	8	-	-	9	9	1500	1	2	ccp0	cpr0	cp0orr	orrcpr
St. Abbs Head	07.1	+4	NW	2	c	58	92	56	8	5	4	-	7-8	9+	3000	0	2	c	cpr0c	crrom0c	crrm0
Leuchars	07.0	+8	-	0	r0r0	59	97	59	7	5	7	-	2-3	10	400	1	*	c	crrcr0r0	r0r0Rm0r0c	cr0r0m0
Renfrew (Abbots I.)	08.3	0	NW	4	c	61	92	59	8	5	7	-	7-8	9+	1800	1	*	cid0m0c	ccid0c	c	cir0c
Eskdalemuir	07.7	-2	WNW	3	c	58	85	52	8	5	-	-	9	9	2200	1	*	orrcr0	c	cd0ir0	cir
Point of Ayre	11.1	0	NW	6	c	56	92	54	7	6	2	-	9	10	800	1	5	cpr0c	pr0bcc	c	cpr0c
Tiree	13.6	+8	N'W	5	c	55	85	49	7	8	-	-	9	9	2500	0	5	cld0rr	cid	c	cbc
Stornoway	12.2	+8	NW	5	c	54	85	50	8	5	7	-	7-8	10	2500	1	3	cd0d0	cpr0	cpr0	cpr0
Dalwhinnie	09.0	+6	NW	2	rr	53	85	50	7	5	-	-	10	10	1500	1	*	cpr0	orr		oir
Aberdeen	07.1	+2	N	2	pr	60	85	54	8	2	7	-	4-6	9+	1400	1	1	ccmpr	cpr0	pr0od0	od0rr
Wick	07.9	+6	NNW	3	r0r0	55	92	54	6	5	2	-	7-8	10	800	1	*	cd0d0c	cr0r0	cr0Drrm	bccbc
Sumburgh	08.7	+4	ENE	4	c	53	92	51	6	5	-	-	10	10	800	1	4	dcddm0c	cm	cd0d0m0c	bcc
Blacksod Point	20.3	+4	NNW	5	ir0	55	85	50	6	-	2	-	10	10	1500	1	4	bc	r	pr	pr
Malin Head	15.1	+4	N'W	6	c/r	55	75	48	7	9	2	-	7-8	10	2500	1	4	d	r	r	pr
Aldergrove	14.0	+4	NW	5	z0	56	85	50	6	5	2	-	9+	10	2000	1	*	circir0	cir0id0c	cm0id0cbc	bccid0c
Birr Castle	16.9	+6	NNW	3	bc	62	65	50	8	8	-	-	4-6	4-6	1500	1	*	o	pr	*	r
Valentia Obsy.	21.2	+10	N	5	bc/pr	58	85	53	8	2	-	-	4-6	4-6	1500	1	4	pr	pr	pr	pr
Roches Point	17.0	0	WNW	5	c	63	85	58	8	8	4	-	7-8	9	1500	1	3	pr	o	pr	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 17th July 1942

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Moderate or fresh Northwest wind, strong locally; rain at first, bright intervals and local showers later; cool.
5 S.W. England, 6 South Wales ▲	Moderate or fresh Northwest wind, strong locally; bright intervals and showers; cool.
7 North Wales ▲, 8 N.W. England ▲, 9 N. Midlands, 10 N.E. England	Fresh North wind strong locally decreasing slowly and backing; rain at first, bright intervals and local showers later; cool.
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 North wind strong locally decreasing slowly and backing; bright intervals, showers; cool.
16 Orkneys and Shetlands	As 11-15
17 N. W. Ireland, 18 N. E. Ireland ▲, 19 S. E. Ireland ▲, 20 S. W. Ireland	Fresh North wind, strong locally decreasing slowly and backing; bright intervals and local showers at first, fair later; cool.

▲ Gale warning for districts 6, 7, 8, 12, 18 and 19 on coasts at 10.45, 17.7.42.

GENERAL INFERENCE

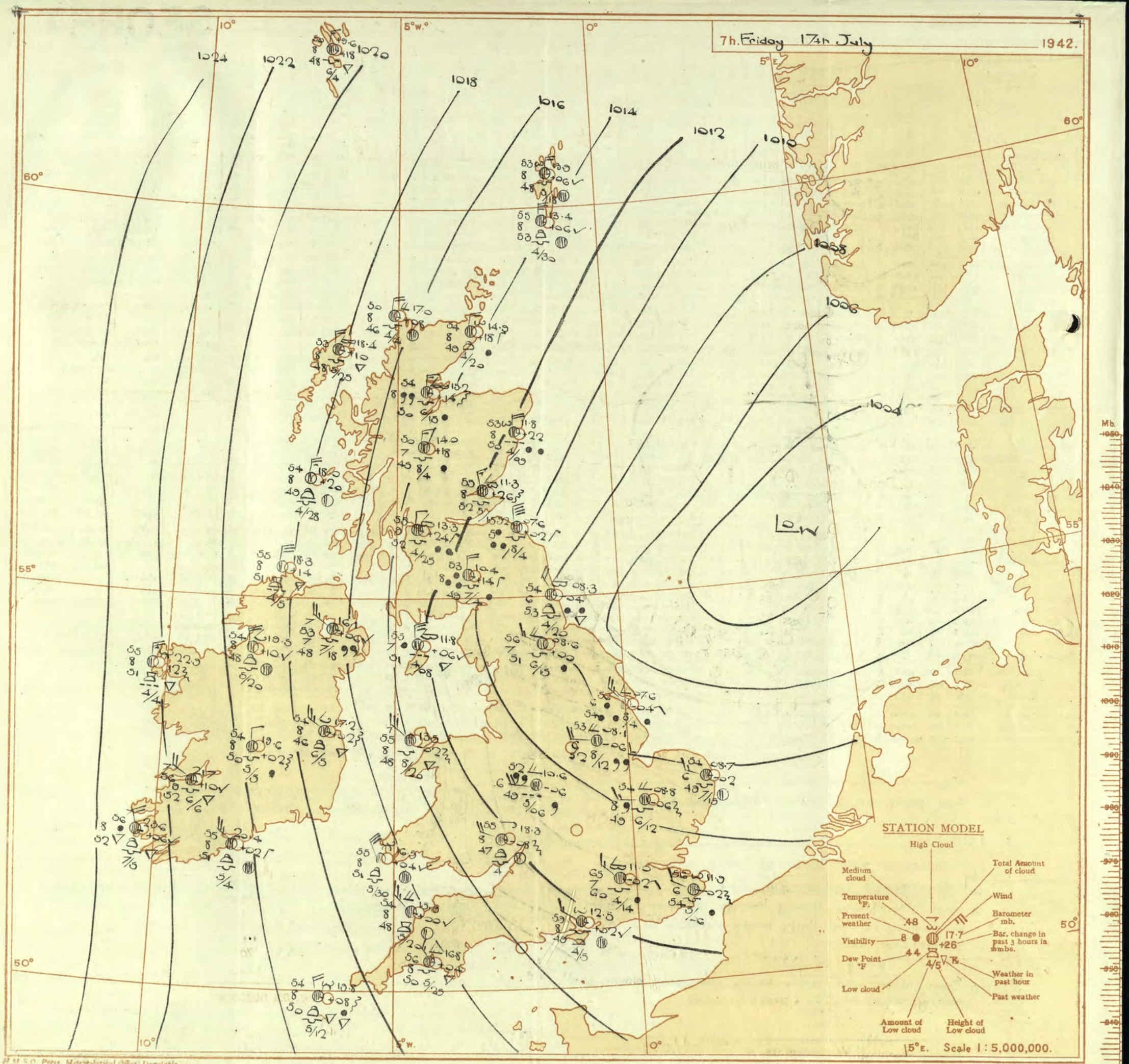
A depression over the North Sea is moving slowly east and a ridge of high pressure is approaching Ireland. There will be rain at first over most of England but later there will be bright intervals and local showers.

FURTHER OUTLOOK

Fair and warmer in the West of the British Isles; bright intervals and local showers in the East at first becoming fair later; fair at first in the Northwest, but occasional rain later.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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).

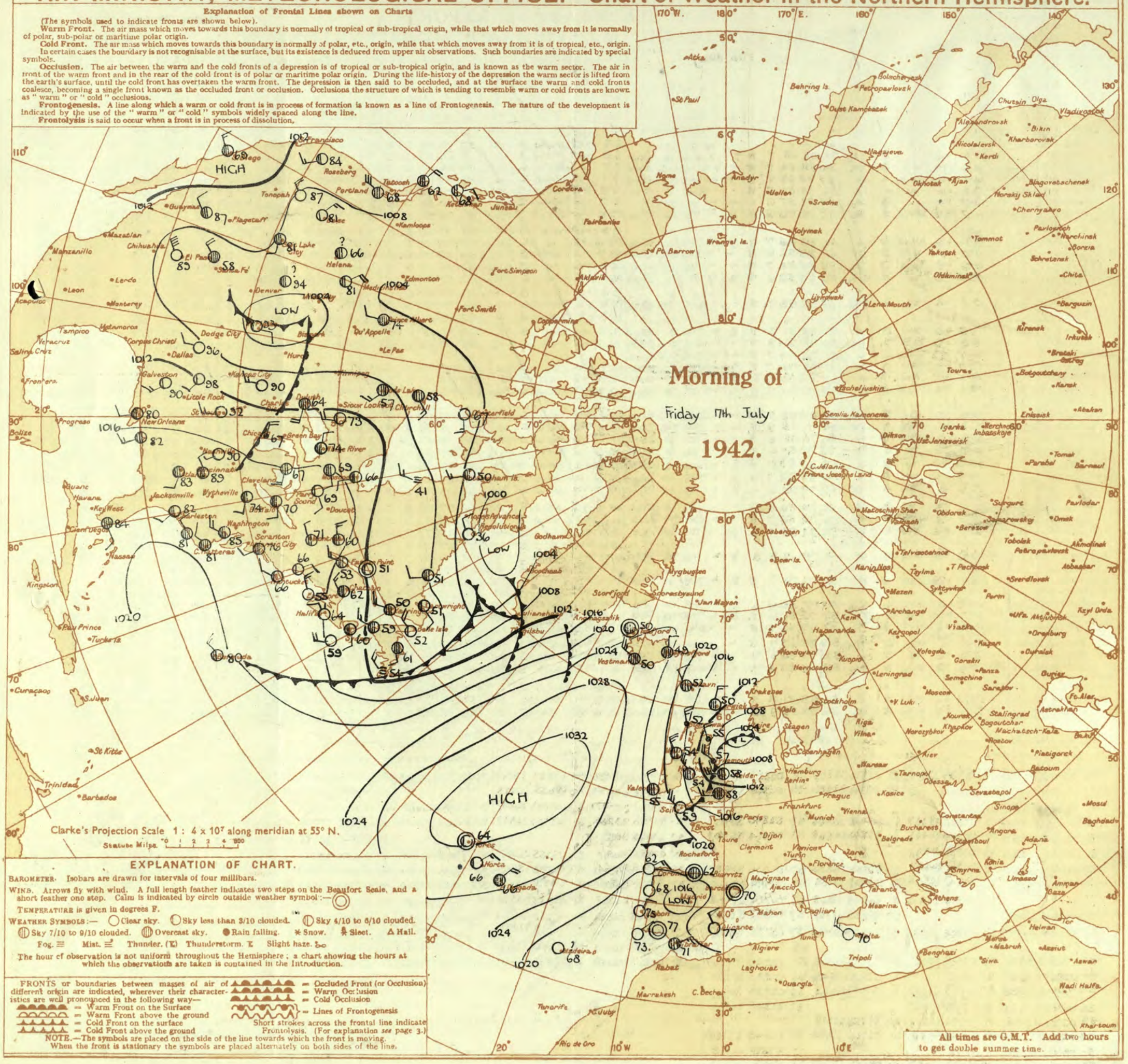
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Friday 17th July 1942

No. 29457

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)	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	*	*	*	*	*	60	*	*	*	*	*	*	*	*	*
	Croydon	290	13·0	-6	W	3	id₀	58	92	55	7	5	7	-	4-6	10	1300
	S. Farnborough	226	12·6	-10	W'S	3	bc	58	85	54	7	5	-	-	4-6	4-6	4000
	Boscombe Down	417	14·1	-6	W'S	4	c	57	92	55	8	5	7	-	7-8	9+	4000
	Thorney Island	10	13·4	-10	W	4	c	59	85	54	7	8		-	4-6	10	1800
	Lympne	283	13·7	-4	W	3	z₀	58	97	57	6	-	7	-	0	9+	-
	Manston	154	11·7	-8	WSW	2	z₀	59	92	56	6	5	-	-	10	10	4500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	11·1	-6	WSW	3	c	60	85	56	7	5	7	-	7-8	10	3600
	Gorleston	5	11·0	0	W'N	2	bc	57	85	52	6	5	-	-	4-6	4-6	1500
	Mildenhall	15	10·6	-8	W'S	3	c	58	85	54	7	5	-	-	10	10	4100
	Cranwell	203	09·5	-6	W	4	d,d₀	56	85	52	6	5	2	-	9	10	2000
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	12·1	-4	W	2	c/d	55	92	53	7	5	-	-	4-6	9	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10·5	+6	NW	3	c	57	85	51	8	8	2	-	7-8	9	2500
	Bristol	209	15·0	-6	W'S	3	bc	55	85	51	8	5	-	-	4-6	4-6	2500
	Portland Bill	32	14·7	-12	WSW	4	c	56	92	54	7	5	-	-	7-8	7-8	4000
	Plymouth	82	17·0	-4	NW	3	pr	59	85	55	7	5	5	-	4-6	9+	1000
	The Lizard	240	18·4	-2	NW	3	c	57	92	55	8	8	2	-	7-8	10	1000
	Scilly (St. Mary's)	163	19·1	+2	NW'N	5	c	59	92	56	8	8	-	-	10	10	1200
	Guernsey	175															
6	Pembroke	142	16·6	0	NW	5	bcq	56	85	52	7	8	-	-	4-6	4-6	4000
7	Holyhead (Valley)	32	14·3	-6	NW'N	5	pr	54	75	48	8	8	-	-	7-8	7-8	2200
	Chester (Sealand)	16	12·4	-4	WNW	5	c	56	75	48	8	5	-	-	10	10	2500
8	Manchester	235	10·8	-6	W	4	c/r	53	92	50	6	6	-	-	10	10	1500
10	Spurn Head	29	09·9	-6	W	5	c	58	85	53	7	5	2	-	4-6	10	2500
	Catterick	175	08·3	-6	W	3	c	56	85	52	7	5	2	-	7-8	10	2600
	Tynemouth	108	08·6	0	NW	4	rr	57	97	55	6	-	2	-	10	10	1500
11	St. Abbs Head	280	08·2	+8	W	3	c	54	85	50	6	5	-	-	10	10	2500
	Leuchars	36	08·2	-2	WNW	2	c	56	92	54	7	5	-	-	9+	9+	3100
12	Renfrew (Abbots L.)	19	10·7	+2	NW	4	c	54	92	52	7	6	2	-	9+	10	1200
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	12·0	+2	N'W	6	c	55	75	48	8	8	7	-	7-8	9+	1500
13A	Tiree	22															
13B	Stornoway	80	16·1	+20	NNW	5	pr	52	92	50	7	5	7	-	7-8	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	07·9	0	NW	4	r₀r₀	55	97	54	6	6	2	-	7-8	10	700
	Wick	114	11·7	+18	VNE	4	rr	52	97	51	6	5	2	-	7-8	10	900
16	Sumburgh	19	15·4	-2	NNW	4	bc	52	85	46	8	5	-	-	4-6	4-6	2000
17	Blacksod Point	18	21·6	+2	NNW	3	c/pr	53	85	49	7	5	-	-	10	10	1500
18	Malin Head	84	26·8	+2	N	5	c	54	75	46	8	9	-	-	7-8	7-8	2500
	Aldergrove	268	15·4	-2	NNW	4	bc	52	85	46	8	5	-	-	4-6	4-6	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23·2	+2	N'W	4	c	56	85	51	8	8	-	-	9+	9+	2500
	Roches Point	22	20·1	+6	WNW	5	bc	54	85	50	8	6	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 17th 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)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
London (Kew)	11·2	-6	NW'W	3	c	57	75	48	8	8	-	-	9+	9+	2500	1	*
Croydon	11·0	-2	NW'W	3	c	55	85	50	7	5	7	-	4-6	9+	1400	0	*
S. Farnborough	11·7	0	WNW	4	c	56	85	49	8	5	-	-	9+	9+	2000	1	*
Boscombe Down	13·1	-2	WNW	4	c	55	75	47	8	5	7	-	7-8	10	3500	0	*
Thorney Island	12·5	+2	NW'W	3	c	59	75	49	8	7	3	-	4-6	9	2500	0	*
Lympne	11·9	-2	WNW	2	z₀	56	92	54	6	5	3	-	7-8	9	600	1	§2
Manston	09·8	-4	WNW	3	c/pr	57	85	51	7	8	6	-	7-8	9	3200	1	*
Shoeburyness	10·5	-6	W'N	3	c	58	75	49	8	5	3	-	2-3	9	3800	0	*
Felixstowe	09·6	-2	W	4	c	57	75	48	8	7	-	-	9	9	2500	1	3
Gorleston	08·7	-2	W'N	3	z₀	54	85	49	6	5	-	-	9+	9+	1500	0	3
Mildenhall	08·8	-6	W	3	id₀	54	85	49	8	5	2	-	9	10	1200	1	*
Cranwell	08·1	-6	W	4	c/d	53	97	52	6	-	2	-	10	10	1200	1	*
Birmingham	10·4	-6	NW	3	0	51	85	47	6	6	-	-	10	10	800	1	*
Upper Heyford	10·6	-6	W'N	4	c	54	75	45	8	7	7	8	9	9+	2800	0	*
Ross-on-Wye	18·3	-8	WNW	4	c	55	75	47	8	8	-	3	4-6	9	3500	0	*
Hartland Point	15·9	0	NW	5	c	54	85	48	8	3	2	-	7-8	9+	2000	0	5
Bristol	14·2	-4	W'S	4	rr	55	75	48	8	5	-	-	4-6	10	2500	0	*
Portland Bill																	
Plymouth	16·8	+4	NW	3	c	56	85	50	8	5	2	-	7-8	9	2500	0	2
The Lizard	18·0	+2	NW	5	c	55	85	51	8	8	6	-	7-8	9+	1000	0	4
Scilly (St. Mary's)	19·8	+8	NNW	4	c/pr	54	85	50	8	8	6	-	7-8	9	1200	0	4
Guernsey																	
Pembroke	16·5	+4	NW	6	cq	55	85	51	8	8	6	-	7-8	7-8	3000	0	3
Holyhead (Valley)	13·5	-2	NW'N	6	c	55	75	48	8	5	-	-	10	10	2000	1	4
Chester (Sealand)	11·1	-6	NW'W	5	rr	55	85	52	5	6	2	-	9+	10	700	1	*
Manchester	09·6	-2	WNW	4	r₀r₀	53	97	52	5	6	2	-	9+	10	600	1	*
Spurn Head	07·6	-4	NNW	5	rr	56	92	54	6	-	2	-	10	10	1500	1	3
Catterick	08·6	0	WNW	3	c	56	85	51	7	5	2	-	9	10	1500	1	*
Tynemouth	08·3	-4	NNW	4	c/pr	54	97	53	6	8	-	-	9+	9+	2400	1	3
St. Abbs Head	07·6	+2	NNW	8	rr	52	97	52	5	5	-	-	10	10	1000	1	6
Leuchars	11·3	+26	NNW	3	c	55	92	52	8	5	7	-	7-8	10	1500	1	*
Renfrew (Abbots L.)	13·3	+24	N	2	c/r	55	85	52	9	5	7	-	4-6	9+	2500	1	*
Eskdalemuir	10·4	+14	N	4	ir	53	85	49	8	5	-	-	9+	9+	1500	1	*
Point of Ayre	11·8	+6	N'W	6	ir	55	85	51	7	6	7	-	4-6	10	800	1	5
Tiree	18·0	+20	N	5	bc	54	85	48	8	8	-	-	4-6	4-6	2800	0	5
Stornoway	18·4	+10	NNW	4	c	53	85	48	8	5	7	-	7-8	9+	2500	1	2
Dalwhinnie	14·0	+18	N	3	0	50	85	45	7	5	-	-	10	10	1500	1	*
Aberdeen †	11·8	+22	N'W	4	c/r	53	92	50	8	6	3	-	4-6	9	900	1	
Wick	14·9	+18	N	4	bc	54	85	49	8	2	3	-	4-6	7-8	2000	1	*
Sumburgh	13·4	+6	N'W	5	c	55	92	53	8	8	3	9	4-6	9	3000	1	4
Blacksod Point	22·9	+12	N'W	5	bc/pr	55	85	50	8	9	6	-	4-6	4-6	1500	1	4
Malin Head	18·3	+14	N	6	bc	55	85	50	8	9	-	-	4-6	4-6	2500	1	5
Aldergrove	16·1	+6	NW'N	5	c/d	53	85	48	7	5	-	-	9+	9+	1800	1	*
Birr Castle	19·6	+2	NNW	2	c	54	85	50	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy.	23·6	+6	N'W	4	pr	56	85	51	8	8	-	-	9+	9+	2500	1	4
Roches Point	20·4	+2	NW	5	c	55	85	50	8	8	-	-	7-8	7-8	1500	1	3

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 16th Hrs. (38)
London (Kew)	72	55	52	Tr	1	3·1
Croydon	72	53	52	0·1	0·6	3·4
S. Farnborough	71	54	51	0·6	1	4·2
Boscombe Down	70	51	48	0·2	-	3·4
Thorney Island	73	56	54	Tr	Tr	*
Lympne	69	53	*	1	2	2·2
Manston	70	55	54	3	Tr	1·4
Shoeburyness	74	56	55	Tr	-	2·5
Felixstowe	73	57	55	1	0·4	2·6
Gorleston	70	54	53	4	Tr	0·9
Mildenhall	71	52	49	1	0·2	2·0
Cranwell	*	52	51	0·1	0·2	3·7
Birmingham	66	51	48	2	0·3	2·5
Upper Heyford	69	52	49	0·1	0·2	*
Ross-on-Wye	66	53	49	3	Tr	0·7
Hartland Point	61	53	53	0·3	Tr	0·5
Bristol	68	53	47	Tr	0·1	2·3
Portland Bill	59	*	-			*
Plymouth	66X	55	53	Tr	-	2·9
The Lizard	63	53	*	0·5	-	1·4
Scilly (St. Mary's)	65	54	*	Tr	Tr	4·3
Guernsey						
Pembroke	60	49	*	Tr	0·2	1·5
Holyhead (Valley)	64	53	50	Tr	Tr	*
Chester (Sealand)	64	53	51	2	2	0·8
Manchester	63	51	51	1	5	*
Spurn Head	67	55	*	-	1	4·9
Catterick	66	53	52	-	3	3·8
Tynemouth	64	54	53	1	6	*
St. Abbs Head	64	50	*	Tr	11	*
Leuchars	68	54	51	3	5	2·9
Renfrew (Abbots L.)	63	53	51	Tr	1	0·9
Eskdalemuir	61	51	49	1	1	1·1
Point of Ayre	64	53	*	0·1	Tr	1·6
Tiree	57	53	*	0·1	-	0·0
Stornoway	57	49	*	0·1	Tr	0·1
Dalwhinnie	59	48	47	3	2	0·1
Aberdeen †	64	51	50	Tr	5	0·5
Wick	59	50	48	0·6	7	*
Sumburgh	55	50	49	1	Tr	0·0
Blacksod Point	61	51	*	0·6	2	*
Malin Head	58	53		0·6	0·3	0·9
Aldergrove	62	50	48	0·4	0·2	0·8
Birr Castle	63	51	50	0·2	0·4	2·4
Valentia Obsy.	61	54	51	0·1	0·3	3·1
Roches Point	64	53	*	0·1	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h G.M.T. 16th July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 17th July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	8-	02323	02258	--	57109	32349	53	02856	32567	5-	03838	31428
115							52	02844	32426	52	02844	32427
203	6-	64728	32658									
206	57	52856	00058	51	02867	28258	4-	62748	35463	57	52846	32367
210	8-	54505	27358	52	02746	26428	52	62525	64568	53	02864	35467
220	51	0245	29558	53	02955	31587						
230	82	02854	20667	62	02847	26427	57	02855	26586	57	02956	30487
245	9-	82844	04187	52	64637	20168	6-	62848	28268	80	22844	65466
260	·			8-	10754	22415	5-	61648	28168	62	22724	27268
278	53	02885	26407				57	02855	61727	57	62837	62688
279	87	81845	26488	5-	02858	59388	52	62635	30468	57	63755	30467
285	·											
288	82	81765	18488	84	02957	55327	5-	58748	26368	5-	05547	26467
575	8-	02847	32457	87	10847	* *	8-	02858	63528	84	02845	30425
301	57	02844	24558	57	21723	26557	5-	51648	61658	57	02835	30667
321	20	01763	23324	86	02865	27427				52	22545	28368
299	83	02764	22415	8-	02750	22316	80	01755	22215			
292	23	02955	24487	84	02950	56327	5-	02766	23126	52	62645	27268
310	5-	56952	51745							--	67109	26469
671	85	25754	26385	53	05665	26325	5-	05558	22258	52	64646	26128

III	13h. G.M.T. 16th July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 17th July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	86	02964	22327	52	61857	24368	12	02754	30368	8-	25848	62488
334	--	03748	22239	--	03655	20228				--	54547	20358
340	8-	25967	---87	8-	10963	26287	5-	25956	61486	5-	52638	23468
136	5-	25756	23268	86	02864	24327	50	01764	22414	5-	51638	23458
336	57	02755	28527							62	62626	28468
350	97	02856	20627	8-	25855	26387	6-	25644	22388	51	02856	23328
368	83	22843	57564	83	81745	15660	54	01652	26313	57	02855	28427
379	9-	81937	26587	5-	02957	24487	50	22652	28362	5-	02944	26427
390	37	05656	24357	87	05666	25328	03	05590	26388	53	02764	26325
882	77	02815	22586	5-	10867	24367	52	64745	61368	53	02966	26427
438	--	46609	22519	5-	25308	22688	8-	02745	22525	86	02744	22415
430	23	02755	20415	53	01645	22427	5-	05678	28228	53	02787	25327
409	52	52507	25458	5-	02957	26437	5-	21768	28458	26	81846	63627

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 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	id₀cr₀c	cyir₀c	rr₀ir₀c	Kew 24 hours ended 7h. Max. Time
Croydon	cid₀bc	cpre	cid₀d₀	0·1 67h
Greenwich	c	cgy	p₀cpc	Min. Time 17h
Camden Square	c	c	*	<0·1 Rest of period.
Kensington	cbc	bcc	*	
Hampstead	bcp	bcor	c	

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	72	55	52	Tr	1	3·1	*	*
Croydon	72	53	52	0·1	0·6	3·4	*	*
Greenwich	74	55	52	-	1	4·0	66	72
Westminster	73	55	54	2			63	73
Regents Park								
Camden Square	73	55	51	-	1	*	*	69
Kensington	73	55	52	Tr	0·6		60	71
Hampstead	71	51	49	Tr	2		*	75

SECRET

Page 1

BRITISH SECTION

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

Saturday 18th July 1942

No. 29458

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	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)	10·2	-4	WNW	3	iro	57	85	51	7	5	1	-	9+	10	1500
	Croydon	10·7	-6	WNW	3	roro	55	97	55	6	6	-	-	10	10	1500
	S. Farnborough	11·0	-4	WNW	4	ido	55	85	52	7	5	-	-	10	10	800
	Boscombe Down	12·5	-4	WNW	4	c/r	57	75	50	8	5	7	-	7-8	10	1400
	Thorney Island	11·6	-6	WNW	4	c	61	65	51	8	5	7	-	7-8	10	2500
	Lympne	11·1	-2	WNW	4	c	58	75	50	8	2	-	-	10	10	2800
	Manston	09·3	-2	W	4	pr	57	92	54	6	8	-	-	10	10	2000
2	Shoeburyness	10·0	-2	W'N	3	ido	55	92	53	6	5	2	-	4-6	10	1500
	Felixstowe	08·0	-2	W'S	4	ido	57	85	53	6	5	-	-	10	10	1000
	Gorleston	07·7	-6	N'W	3	pr	58	85	53	6	6	-	-	10	10	1000
	Mildenhall	08·2	-4	WN	3	ido	58	92	56	6	6	2	-	9	10	600
	Cranwell	08·3	-2	NN'N	4	dodo	56	97	55	6	6	2	-	9	10	300
3	Birmingham	11·0	+2	NNW	4	c	57	85	53	6	6	2	-	9	10	800
	Upper Heyford	10·4	+4	WNW	4	iro	55	92	52	7	5	-	-	10	10	600
4	Ross-on-Wye	12·3	0	NW'W	4	iro	57	85	51	8	8	-	-	10	10	2500
5	Hartland Point	16·7	+2	NW	5	c/pr	56	85	50	8	8	6	-	7-8	9+	2000
	Bristol	13·5	-4	W	4	c	59	75	51	8	5	-	-	10	10	1500
	Portland Bill	13·2	-4	W	4	c	59	92	56	8	5	-	-	10	10	4000
	Plymouth	17·2	+2	NW	5	c	59	75	50	8	8	-	-	9	9	2000
	The Lizard	18·5	+4	NW	5	c	59	75	49	8	2	6	-	7-8	7-8	1500
	Scilly (St. Mary's)	20·3	+2	NW'N	5	bc	63	65	52	8	8	6	5	4-6	4-6	1500
	Guernsey															
6	Pembroke	17·9	+8	NNW	6	cq	56	85	52	7	8	1	-	9+	10	2500
7	Holyhead (Valley)	16·1	+18	NW'N	6	c/r	56	85	52	8	5	7	-	2-3	9+	1000
	Chester (Sealand)	13·4	+16	NW'N	4	roro	56	92	53	6	6	2	-	7-8	10	800
8	Manchester	11·7	+14	NW	4	roro	54	97	53	6	6	2	-	7-8	10	800
10	Spurn Head	07·0	-6	NNW	6	ir	57	92	55	6	-	2	-	0	10	1500
	Catterick	11·5	+14	NNW	5	iro	55	85	50	6	5	2	-	7-8	10	1200
	Tynemouth	10·8	+14	N	6	c/r	55	85	51	6	8	-	-	9+	9+	1400
11	St. Abbs Head	12·3	+10	NNW	5	c	55	75	49	8	5	4	-	7-8	7-8	2000
	Leuchars	14·2	+4	NNW	3	c	58	92	56	8	8	-	3	7-8	7-8	1800
12	Renfrew (Abbots I.)	15·5	+4	N'E	4	c	61	55	46	9	8	7	-	7-8	9+	2000
	Eskdalemuir	13·6	+12	N'E	4	c	58	65	43	8	5	1	-	7-8	9	1800
	Point of Ayre	15·6	+10	NW	5	c	57	85	53	8	8	7	-	4-6	9+	5000
13A	Tiree	20·0	+2	N	4	bc	57	75	49	8	8	3	-	4-6	4-6	2500
13B	Stornoway	19·6	+2	NNW	5	c	56	85	50	8	5	7	-	7-8	10	2500
	Dalwhinnie	17·3	+6	NNE	3	c	53	75	45	8	5	-	-	9	9	1500
	Aberdeen	13·4	+2	N	6	c	58	75	48	8	2	3	-	7-8	7-8	2100
	Wick	16·3	+2	N'E	4	c/pr	55	75	47	9	8	4	-	4-6	9	1200
16	Sumburgh	14·4	+2	NNW	5	c	55	85	49	8	1	7	-	4-6	9	3000
17	Blacksod Point	25·4	+6	N	5	bc	59	65	48	8	8	-	-	4-6	4-6	2500
18	Malin Head	20·9	+6	N	6	c	57	75	49	8	9	-	1	7-8	10	2500
	Aldergrove	19·0	+10	NNW	5	bc	59	65	48	8	-	-	5	7-8	7-8	2500
19	Birr Castle	21·5	-8	NNW	3	c	61	65	49	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	25·2	+10	N	5	pr	59	75	51	8	8	-	-	9	9	2500
	Roches Point	21·5	+6	N	5	bc	60	75	52	9	2	3	-	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 17th 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. 17th (39)	Weather 13h.–18h. 17th (40)	Weather 18h. 17th to 1h. 18th (41)	Weather 1h.–7h. 18th (42)
London (Kew)	10·8	+16	WSW	3	roro	54	97	53	6	6	2	-	9	10	450	1	*	CDRiro	rrodorro	crrocmo	cmocirо
Croydon	10·6	+2	NW	5	ir	54	97	54	6	6	-	-	10	10	400	1	*	Cidororo	Crorom o	cmorobc	cmociro
S. Farnborough	11·6	+10	NW'N	4	rr	55	92	52	6	5	2	-	9+	10	600	1	*	Cdododdmo	Cdororormo	crrbcmo	bccmodoiro
Boscombe Down	13·9	+8	NW'N	5	iro	55	85	51	8	5	7	-	7-8	10	6000	1	*	circ	cir	bc	bcc
Thorney Island	12·0	+6	NW	4	c/r	57	85	53	8	6	7	-	7-8	10	2500	1	*	cproc	croroc	cirocmo	cmobc
Lympne	10·0	-8	W	4	dodo	55	97	54	5	6	2	-	9+	10	300	1	*	cbccpro	dorrromo	dorrroc	cromcmo
Manston	08·2	-10	W'S	3	iro	56	97	56	5	6	2	-	7-8	10	1500	1	§ *	bccmoiro	priro	irorrrororo	crorom
Shoeburyness	09·5	-4	WNW	4	rr	57	85	55	6	5	2	-	4-6	10	1200	1	*	cido	cidorr	crrmo	cliromo
Felixstowe	07·8	+2	WNW	4	iro	58	92	55	6	5	-	-	10	10	800	1	3	ccidoc	rocidom	robcdoro	croromoir
Gorleston	08·2	+8	N	4	pr	59	85	54	6	8	-	-	10	10	1500	1	2	copro	cpro	crororr	orrdocmo
Mildenhall	09·0	+10	NNW	5	dr	55	92	53	6	6	2	-	9+	10	300	1	*	cmododo	cmororodrdr	crorom	crorom
Cranwell	10·8	+14	NNW	5	c/r	55	85	51	7	5	1	-	4-6	9+	600	1	*	cdodomo	rodorc	cmcrorom	crorom
Birmingham	13·3	+4	NNW	3	c	57	75	49	7	6	7	-	4-6	9	1500	1	*	[illegible]	orrc		
Upper Heyford	12·1	+10	NNW	4	roro	53	92	51	6	5	7	-	2-3	10	600	1	*	cidororo	irororomo	crorobc	cddmo
Ross-on-Wye	14·4	+10	NW'W	4	c	57	75	50	8	5	-	8	7-8	9	3500	1	*	c	pcroc	cbcc	cbcc
Hartland Point	17·5	+4	NNW	5	c	58	85	52	8	2	7	-	2-3	7-8	2500	0	5	cpr	cpo	cbcc	c
Bristol	15·3	+10	NNW	4	c	56	75	49	8	5	7	-	7-8	10	4000	1	*	cirovc	cororo	bcc	cbcciro
Portland Bill	14·2	-6	WNW	4	c	59	92	56	8	5	-	-	10	10	4000	1	4	c	c	c	c
Plymouth	17·2	+2	NW	5	bc	61	75	51	8	7	7	-	2-3	4-6	1500	0	3	cproc	cprobc	bbc	bbcc
The Lizard	19·8	0	NW'N	4	c/pr	56	92	54	8	8	6	-	7-8	7-8	2000	1	4	bcc	cprc	cproc	cprc
Scilly (St. Mary's)	20·7	+2	NW	4	bc	62	65	52	8	8	4	-	2-3	4-6	1500	0	3	cpqobc	bc	cpc	bccp
Guernsey																					
Pembroke	18·9	+8	N'W	5	cq	58	75	49	8	8	-	-	9	9	3000	0	3	c	cq.	cq	cq
Holyhead (Valley)	17·4	+8	NNW	6	bc/d	58	65	47	8	8	4	3	2-3	4-6	5000	1		cddmoiro	cbcc	bccbc	proc
Chester (Sealand)	14·3	+2	NW	6	c	59	75	51	8	8	-	-	9+	9+	3000	1	*	cidromo	roromoc	cprobc	cpro
Manchester	13·2	+4	NNW	4	c/pr	59	65	47	6	2	6	-	7-8	9+	1500	1	*	cromo	roropro	czopro	cmoror
Spurn Head	09·9	+10	NNW	7	cq	56	85	52	6	5	2	-	2-3	10	1500	1	4	circoir	cq	oiRpq	oqiroq
Catterick	12·8	+6	N	4	c	57	75	48	8	5	7	-	7-8	9+	1300	1	*	cromo	ciromoc	ciro	crododm
Tynemouth	12·2	+6	N	6	c	55	85	49	7	8	-	-	9+	9+	2300	1	5	corre	c	cpooir	orro
St. Abbs Head	13·1	+8	NNW	6	c	54	85	48	8	5	4	-	7-8	9+	2500	0	5	ciromoc	c	cror	crodo
Leuchars	15·1	+8	N	4	c	58	85	53	9	4	-	-	2-3	9+	2000	1	*	cproc	c	ccproc	c
Renfrew (Abbots I.)	16·2	+4	N'E	4	c/pr	60	55	43	9	8	7	-	7-8	7-8	1800	1	*	c	ccpro	cbcc	cbc
Eskdalemuir	14·3	+2	N'W	4	c	58	65	47	8	8	-	8	7-8	9	1500	1	*	ciro	bcpRc	c	c
Point of Ayre	15·6	0	N'W	6	c	59	75	51	8	8	4	-	7-8	9	4500	1	5	crrc	c	bccb	roroproc
Tiree	20·3	0	N	5	c/pr	53	75		8	8	3	-	7-8	9	1800	1	5	bccbc	bccpr	prproc	cbc
Stornoway	20·8	+8	NNW	5	c/pr	53	85	48	8	5	7	-	7-8	10	2500	1	3	cpro	cpro	c	c
Dalwhinnie		+4	N	3	c	50	75	41	8	5	-	-	9	9	2500	1		oirobc	cpro		co
Aberdeen	14·4	+4	N'W	5	c	57	75	48	8	2	3	-	7-8	9+	2100	1	3	cbcc	cbc	coido	ododo
Wick	17·0	+2	N	3	c	53	85	49	8	8	7	-	7-8	7-8	2500	1	*	cproc	c	ciddddmo	cdoido
Sumburgh	15·1	+2	N'W	4	ido	53	92	51	6	5	-	-	10	10	1000	1	4	c	cdodomo	cdodoc	cdodbido
Blacksod Point	26·5	+4	N'W	5	bc/pr	55	85	51	8	8	-	-	4-6	4-6	1500	1	4	bc	pr	pr	c
Malin Head	21·7	+4	N'W	6	c/pr	54	85	50	8	9	-	-	4-6	9	2500	1	5	bc	pr	pr	c
Aldergrove	20·0	+4	NNW	5	c	56	75	47	8	7	3	-	7-8	7-8	2500	1	*	cidoobc	c	cprocbcb	bbccproc
Birr Castle	22·4	+4	NNW	4	c	60	65	49	8	8	-	-	7-8	7-8	1500	1	*	pr	c	*	c
Valentia Obsy.	25·9	+6	N	6	bc	59	65	48	8	2	-	-	2-3	2-3	2500	0	5	pr	pr	pr	pr
Roches Point	22·5	+10	N	5	bc	61	75	53	9	5	-	-	4-6	4-6	2500	0	3	bc	bc	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 18th July

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Fresh Northwest to North wind, strong on East coast, moderating decidedly; cloudy with slight local rain at first, especially near East coast, fair later; cool
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales	Fresh North wind, strong locally on coasts, moderating decidedly; mainly cloudy, local showers; becoming brighter; cool
8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man	Fresh or strong North wind, moderating and backing Northwest or West; cloudy, slight local rain, becoming fairer, but further slight rain at many places tomorrow; cool.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Wind backing West, mainly moderate; cloudy, local breaks, slight rain or drizzle later; cool becoming warmer later
16 Orkneys and Shetlands; 17 N.W. Ireland	As 13A - 15.
18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	As 4-7

GENERAL INFERENCE

A large anticyclone is centred North of the Azores and a ridge off our Northwest coasts is moving southeast. A depression east of England will move away eastward and a depression to North of Iceland will move east and then Southeast. Weather will improve in most areas but slight rain will spread from Northwest over northern districts.

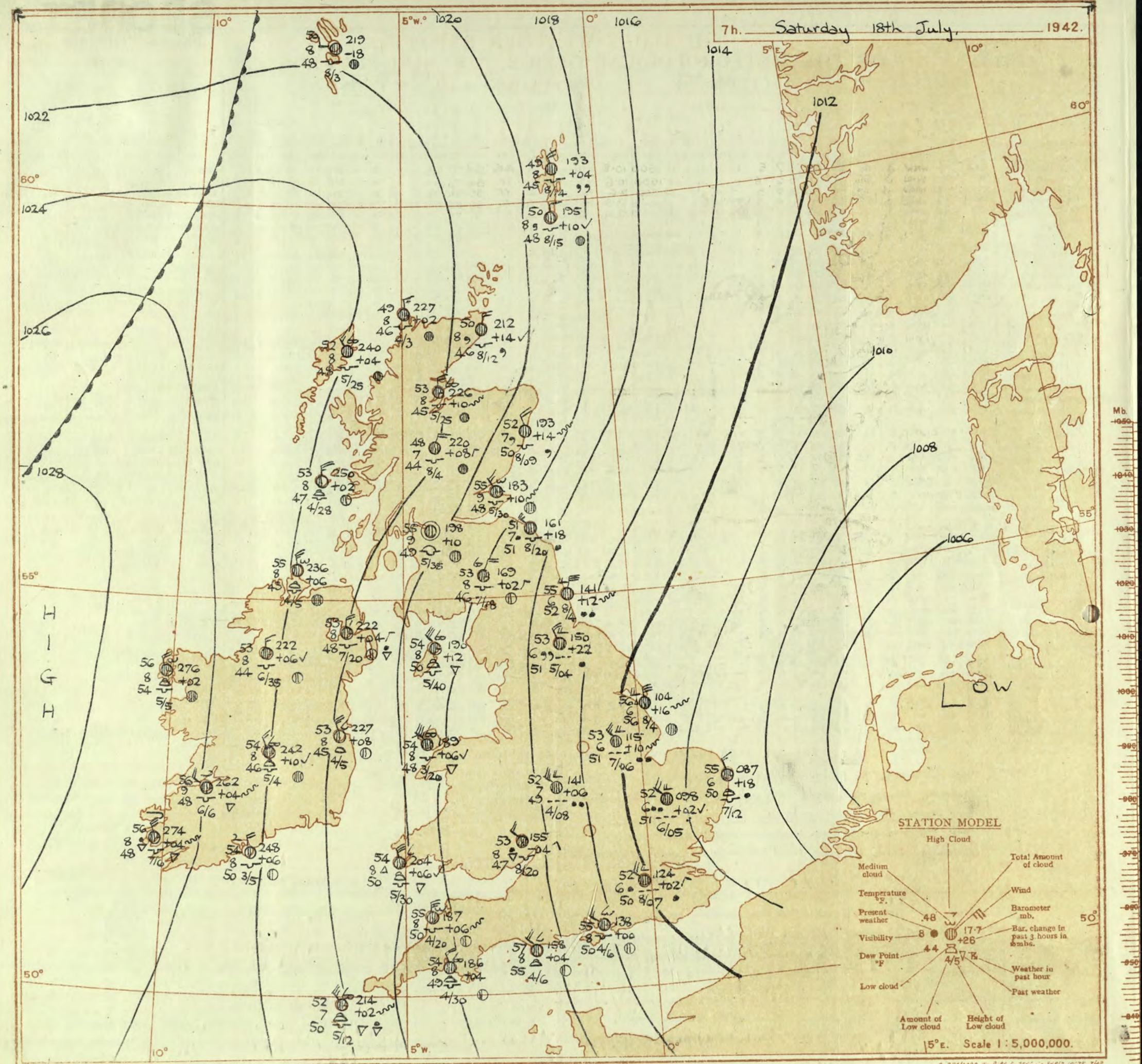
FURTHER OUTLOOK

Much cloud in most areas but local breaks. Slight occasional rain spreading Southward over the country. Becoming warmer generally

Forecasts issued at 10.30.

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office 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.

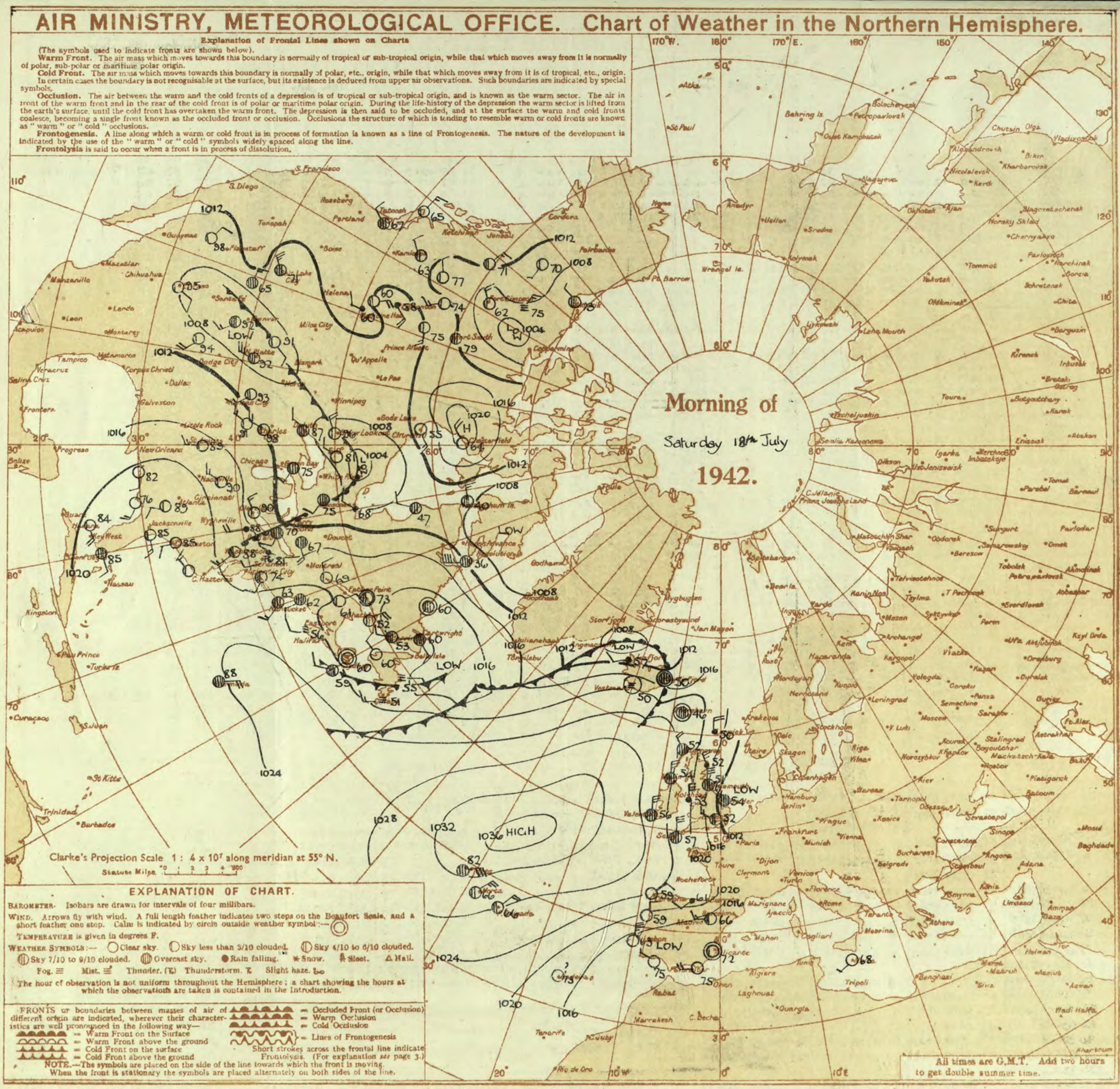
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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.



BRITISH SECTION

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

Saturday 18th July 1942

No. 29458

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)	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	12·5	+2	NW'W	3	bc	52	97	51	6	5	–	–	4-6	4-6	2300
	S. Farnborough	226	13·3	0	NW'W	4	bc	54	85	50	6	5	1	–	4-6	7-8	4000
	Boscombe Down	417	15·2	+2	W'N	3	bc	51	85	47	8	5	–	–	4-6	4-6	4000
	Thorney Island	10	13·9	+2	WNW	4	z_0	54	85	50	6	5	–	–	9+	9+	6100
	Lympne ...	283	11·8	+6	WNW	5	c	53	85	49	7	5	2	–	9	10	1200
	Manston ...	154	09·9	+2	WNW	5	ir_0	54	92	51	6	5	–	–	10	10	1600
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	08·5	–4	WNW	6	r_0r_0	53	97	52	6	6	–	–	10	10	1200
	Gorleston ...	5	06·8	–12	NNW	4	rr	60	92	57	6	6	–	–	10	10	800
	Mildenhall ...	15	10·2	–2	NW	5	r_0r_0	52	85	49	6	5	–	–	10	10	1700
	Cranwell ...	203	11·4	–2	NW	5	r_0r_0	52	85	47	6	5	–	–	10	10	2500
3	Birmingham ...	538	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	13·5	+2	NNW	4	bc	52	85	48	7	5	–	–	4-6	4-6	3000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	18·6	–2	NNW	5	c	55	92	53	8	8	–	–	7-8	7-8	1500
	Bristol ...	209	16·6	0	WNW	4	c	53	85	47	8	5	7	–	4-6	9+	2500
	Portland Bill ...	32	15·7	+4	W	4	c	57	92	55	7	5	–	–	10	10	4000
	Plymouth ...	82	18·8	–2	NNW	4	bc	55	75	48	7	5	–	–	2-3	2-3	2000
	The Lizard ..	240	20·7	0	NW	5	c/pr	55	92	53	8	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	163	21·8	+2	N'W	5	c	57	75	49	8	8	–	–	7-8	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	20·0	+8	N'W	5	cq	55	85	49	7	6	7	–	7-8	9+	4000
7	Holyhead (Valley)	32	18·2	0	N'W	7	pr	53	85	48	7	8	–	–	10	10	1300
	Chester (Sealand)	16	15·2	0	NNW	4	bc	56	75	49	7	5	7	–	2-3	4-6	3000
8	Manchester ...	235	14·3	+2	WNW	3	c	52	85	47	6	5	–	–	9	9	4000
10	Spurn Head ...	29	08·8	–6	NW'N	7	cq	54	85	50	6	–	2	–	10	10	1500
	Catterick ...	175	12·7	–8	NW	4	ir	52	85	47	7	5	7	–	9	10	2000
	Tynemouth ...	108	12·1	–6	N	6	o/r	51	92	49	6	–	2	–	10	10	2500
11	St. Abbs Head	280	13·6	+4	NNW	6	r_0r_0	51	97	51	7	5	–	–	10	10	2500
	Leuchars ...	36	16·1	+2	NNW	2	c	55	65	45	8	5	7	–	9	9+	2300
12	Renfrew (Abbots I.)	19	18·3	+6	NNW	3	c	55	65	43	9	8	–	–	9	9	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	17·5	+4	N'W	6	b	54	85	49	8	4	–	–	1	1	3000
13A	Tiree ... ... †	22	21·9	+8	N'E	5	bc	52	85	46	8	8	4	–	4-6	7-8	2500
13B	Stornoway ...	80	23·0	+8	NNW	4	c	52	85	48	7	5	7	–	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	16·3	+8	NNW	5	d_0d_0	52	97	51	6	6	2	–	9+	10	800
	Wick ...	114	18·7	+4	N	4	d_0d_0	51	92	49	6	5	–	–	10	10	600
16	Sumburgh ..	19	17·8	+8	N	4	c/d	51	97	50	7	5	–	–	9+	9+	800
17	Blacksod Point	18	17·4	+2	N'W	5	pr	55	97	54	7	9	–	–	9+	9+	1500
18	Malin Head ...	84	22·7	+6	N	5	c	54	85	50	8	8	2	–	7-8	10	2500
	Aldergrove ...	268	21·1	+6	NNW	4	b	50	85	46	7	5	–	–	1	1	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	27·2	+2	N	5	c/pr	56	75	49	8	8	–	–	9	9	2500
	Roches Point	22	24·1	+6	N	5	bc	54	85	50	8	5	–	–	4-6	4-6	2500

† obs from TIREE MET. OFFICE.

OBSERVATIONS at 7 hr. G.M.T. 18th 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)	12·2	0	NW'W	3	ir_0	54	85	48	7	5	–	–	10	10	1500	1	*
Croydon ...	12·4	+2	NW'W	4	ir_0	52	92	50	7	6	–	–	10	10	700	1	*
S. Farnborough	13·2	+2	NW'W	4	d_0d_0	53	85	48	6	5	–	–	10	10	800	1	*
Boscombe Down	15·1	0	NW	4	c	53	85	47	8	6	7	–	4-6	9	4000	0	*
Thorney Island	13·8	0	WNW	3	c	55	85	50	8	5	5	–	4-6	9	4000	1	*
Lympne ...	11·7	+2	WNW	4	c	53	92	50	7	5	–	–	10	10	900	1	§3
Manston ...	09·8	+2	NW'W	5	ir_0	53	92	51	6	5	–	–	10	10	1200	1	*
Shoeburyness ...	10·9	+2	NW	4	ir_0	53	85	49	6	5	–	–	10	10	1600	1	*
Felixstowe ...	09·1	+6	WNW	4	ir_0	52	92	50	5	6	–	–	10	10	800	1	3
Gorleston ...	08·7	+18	N'W	3	c	55	97	54	6	8	–	–	9+	9+	1200	1	3
Mildenhall ...	09·8	+2	NW'W	4	r_0r_0	52	97	51	6	6	2	–	9	10	500	1	*
Cranwell ...	11·5	+10	NW'N	5	c/r	53	92	51	6	6	2	–	9+	10	600		*
Birmingham ...	13·0	+2	NW'N	4	dd	51	97	49	6	6	2	–	7-8	10	400	1	*
Upper Heyford	15·5	–4	NNW	4	pr	53	85	47	8	5	–	–	10	10	2000	0	*
Hartland Point	18·7	+6	N	5	c	55	85	50	8	5	6	–	4-6	7-8	2000	0	5
Bristol ...	16·7	+6	NW'W	4	c/r	54	75	46	8	5	7	–	7-8	9+	2500	1	*
Portland Bill ...	15·8	+4	NW	4	c	57	92	55	8	2	4	–	4-6	9	4000	4	4
Plymouth ...	18·6	+4	N'W	4	c	54	85	49	8	8	7	–	4-6	10	3000	0	3
The Lizard ..	19·8	+2	NNW	4	c	52	85	48	8	8	6	–	7-8	7-8	1200	1	4
Scilly (St. Mary's)	21·4	+2	NNW	5	c/pr	52	92	50	7	8	7	–	7-8	9+	1200	1	4
Pembroke ...	20·4	+6	N'W	6	cq	54	85	50	8	8	4	–	7-8	9	3000	0	4
Holyhead (Valley)	18·9	+6	N'W	7	c	54	85	48	8	5	7	–	2-3	10	2000	1	4
Chester (Sealand)	16·1	+8	NW	5	ir_0	54	85	50	7	5	7	–	7-8	9+	1200	1	*
Manchester ...	14·4	+6	WNW	3	c/r	52	85	49	6	5	7	–	9	10	1500	1	*
Spurn Head ...	10·4	+16	N	6	cq	56	97	56	6	–	2	–	10	10	1500	1	4
Catterick ...	15·0	+22	NNW	4	d_0d_0	53	92	51	6	6	2	–	7-8	10	400	1	*
Tynemouth ...	14·1	+12	N	6	o/r	55	97	54	6	–	2	–	10	10	1500	1	5
St. Abbs Head	16·1	+18	NNW	6	ir_0	51	97	51	7	5	–	–	10	10	2000	1	6
Leuchars ...	18·3	+10	NNW	3	c	55	75	48	9	5	6	–	7-8	9	3000	1	*
Renfrew (Abbots I.)	19·8	+10	—	0	bc	55	75	49	9	4	–	–	7-8	7-8	3500	1	*
Eskdalemuir ...	16·9	+2	N'E	4	c	53	75	46	8	5	7	–	7-8	9+	1800	1	*
Point of Ayre...	19·0	+12	NNW	6	c	54	85	50	8	8	7	–	7-8	9+	4000	1	5
Tiree ... ... †	25·0	+2	N	5	bc	53	75	47	8	8	–	–	4-6	4-6	2800	0	5
Stornoway ...	24·0	+4	NNW	3	c	52	85	48	8	5	7	–	7-8	10	2500	1	2
Dalwhinnie ...	22·0	+8	NNE	3	o	48	85	44	7	5	–	–	10	10	1500	0	*
Aberdeen † ...	19·3	+14	N'W	4	id_0	52	92	50	7	5	–	–	10	10	900	1	3
Wick ...	21·2	+14	N	4	id_0	50	85	46	8	5	–	–	10	10	1200	1	*
Sumburgh ..	19·5	+10	N	2	id_0	50	92	48	8	5	–	–	10	10	1500	1	4
Blacksod Point	27·6	+2	SW'W	4	c	56	92	54	8	8	3	–	7-8	9+	2500	1	3
Malin Head ...	23·6	+6	N'W	5	c	55	65	44	8	8	6	–	4-6	7-8	2500	1	5
Aldergrove ...	22·2	+4	NNW	4	c/pr	53	85	48	8	5	–	–	9+	9+	2000	1	*
Birr Castle ...	24·2	+10	NNW	3	c	54	75	46	8	8	7	–	7-8	9	1500	1	*
Valentia Obsy.	27·4	+4	N'W	6	pr	56	75	48	8	5	–	3	9+	9+	4000	0	4
Roches Point	24·8	+6	N.	4	bc	54	85	50	8	5	–	5	2-3	4-6	2500	0	3

PAST 24 HOURS.

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 17th Hrs. (38)
London (Kew)	58	53	49	5	0·6	0·0
Croydon ...	58	52	50	9	3	0·1
S. Farnborough	58	50	46	4	1	0·4
Boscombe Down	59	49	45	2	–	0·0
Thorney Island	62	51	48	3	Tr	*
Lympne ...	60	51	*	1	–	2·3
Manston ...	61	51	50	–	5	2·1
Shoeburyness ...	63	52	50	0·5	3	1·4
Felixstowe ...	62	52	51	3	5	1·1
Gorleston ...	60	52	51	1	18	0·0
Mildenhall ...	58	49	49	6	3	0·0
Cranwell ...				6		
Birmingham ...	57			5		
Upper Heyford	56	54	48	3	1	*
Ross-on-Wye	60	51	46	0·5	Tr	1·0
Hartland Point	58	53	51	Tr	–	0·4
Bristol ...	59	51	46	1	Tr	0·0
Portland Bill ...	60	55	*	–	–	*
Plymouth ...	61	53	49	Tr	–	5·6
The Lizard ..	62	51	*	2	1	5·7
Scilly (St. Mary's)	65	52	*	0·4	2	10·2
Pembroke ...	62	48		0·4	Tr	1·8
Holyhead (Valley)	59	52	49	0·5	0·1	*
Chester (Sealand)	61	53	50	2	1	1·5
Manchester ...	61	51	48	2	13	*
Spurn Head ...	59	51		5	2	0·0
Catterick ...	59	51	50	1	3	0·1
Tynemouth ...	56	51	50	4	5	*
St. Abbs Head	55	49	*	0·1	2	
Leuchars ...	62	53	50	0·6	0·2	3·3
Renfrew (Abbots I.)	65	52	41	Tr	–	2·9
Eskdalemuir ...	60	49	48	2	–	2·8
Point of Ayre...	59	53	*	2	0·4	1·9
Tiree ... ... †	58	52		0·5	–	7·4
Stornoway ...	57	51	*	1	–	1·3
Dalwhinnie ...	54	47	45	0·2	–	0·9
Aberdeen † ...	59	51	49	–	0·4	4·9
Wick ...	56	48	46	0·2	Tr	*
Sumburgh ..	59	49	48	Tr	Tr	0·9
Blacksod Point	60	51	*	0·2	Tr	*
Malin Head ...	57	53		Tr	0·2	*
Aldergrove ...	60	45	45	Tr	0·4	6·8
Birr Castle ...	62	50	47	Tr	–	
Valentia Obsy.	62	55	52	Tr	0·1	7·7
Roches Point	64	53	*	–	–	*

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
109 53	02854	30525	87	81857	63588	52	53536	32558	5-	52748	29458
115 52	02844	32427	52	02844	32427	52	02834	32487			
203						8-	81847	32527			
206 57	21855	30456	5-	51967	30327	5-	02858	28458	57	02855	32327
210 83	02844	63426	5-	02857	29527	5-	62846	63568	5-	51735	30458
220			83	02845	31587						
230 8-	01955	28415	84	02965	28526	57	01954	30414	43	01953	30314
245 86	02954	64525	**	10952	64517	5-	51957	65587	53	02946	34457
260 87	02855	31227	87	02846	28217	5	02844	28217	5-	02855	27225
278 84	02964	62625	84	01964	29614	50	01863	63613	5-	02867	62627
279 77	02965	64466	86	81866	64487	5-	02875	31525	5-	02967	32427
285 6-	22748	32568									
288 52	62616	63668				52	64666	61568	62	64426	63668
575 8-	02857	65487	8-	25847	65587	5-	02855	65685	5-	02866	32316
301 57	61647	30568	87	81756	61567	5-	02854	30486	5-	61834	30567
321 52	53646	31558	57	02748	30567	62	61755	29468	52	21646	63558
299 30	81648	65688	8-	62648	30668	8-	02748	30668	5-	14638	32528
292 62	61737	63466	8-	02947	64527	62	62758	61468	62	52627	63468
310 33	33052	62646									
614 52	62555	30268	5-	05655	30265	5-	05654	63324	52	63645	30368

	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
33361	61745	30568	53	02864	31425	5-	02857	63527	8-	81747	64487
334 --	54457	20158	--	03565	20228				--	64547	28368
340 5-	62748	30468	86	02876	30467	5-	01783	28113	62	62655	30468
136 52	05646	25468	62	62737	65688	6-	64638	28568	5-	62618	01468
336 62	62626	28568	57	02756	28428				57	02755	32427
350 5-	62528	26368	62	64635	29468	8-	25665	26488	62	22725	26568
368 5-	02744	28487	57	02745	26487	50	01754	28414	29	02743	28417
379 5-	51848	24468	5-	22738	61468	5-	05645	28365	62	64637	30568
390 62	54437	24358	62	64426	26368	57	51564	28467	62	51635	26468
382 62	64745	59468	62	62635	63468	5-	01774	28324	62	59625	60358
438 87	02855	24418	62	61435	24488	80	02554	22324	52	61756	22426
430 5-	02748	24328	53	22646	28368	5-	05616	26325	54	26427	* *
409 27	25845	63687	57	02853	65526	57	25864	64585	8-	02837	64587

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 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
Kew	cDR ir₀	rr₀d₀rr₀	cm₀cir₀
Croydon ...	cld₀r₀r₀	cr₀r₀ m₀	cm₀cir₀
Greenwich ...	cp₀r₀r	rr	rr₀cir
Camden Square	c	c	*
Kensington ...	or	cr	*
Hampstead ...	cbc	or	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. 0·1 Rest of period Min. <0·1 Time 7-9h 17th

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	58	53	49	5	0·6	0·0	*	*
Croydon ...	58	52	50	9	3	0·1	*	*
Greenwich ..	58	52	48	7	1	0·1	94	90
Westminster ..	58	53	51	7			98	97
Regents Park ...	58	52	50	5	3		95	87
Camden Square	58	53	49	5	1	*	*	89
Kensington ...	58	52	49	7	3			
Hampstead ..	56	50	48	5	3		*	97

Page 1 **BRITISH SECTION**

SECRET

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

Sunday 19th July 1942

No. 29,459

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

District	Stations (For heights see p. 4)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	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)	14.3	+12	NNW	4	id	57	85	53	6	6	2	-	4-6	10	800
	Croydon	13.9	+10	NNW	3	id	56	92	54	5	6	2	-	9+	10	600
	S. Farnborough	14.5	+10	NNW	5	c/d	57	85	52	6	5	2	-	9	10	800
	Boscombe Down	16.1	+8	NW	5	c	57	75	50	7	5	2	-	9	10	1200
	Thorney Island	14.5	+4	NNW	4	s/r	60	75	52	7	5	2	-	7-8	10	800
	Lympne	13.1	+6	NW	4	c	61	85	57	7	9	6	-	4-6	10	1500
	Manston	11.1	+6	NNW	4	c/r	61	85	58	6	8	6	4	7-8	7-8	1200
2	Shoeburyness	12.6	+12	NNW	3	c	65	65	55	7	8	-	-	9+	9+	2500
	Felixstowe	10.6	+6	NNW	3	in	63	75	57	7	5	-	-	10	10	2000
	Gorleston	10.1	+6	NW	4	c	61	75	54	7	8	-	-	7-8	7-8	1100
	Mildenhall	12.3	+10	NNW	3	dd	56	97	55	6	6	2	-	9	10	400
	Cranwell	14.4	+16	NW	5	dd	55	92	53	6	6	2	-	9+	10	400
3	Birmingham	17.0	+10	NNW	4	c/pr	54	92	52	6	6	-	-	10	10	800
	Upper Heyford	16.2	+10	NNW	4	dd	54	97	53	5	5	2	-	9	10	800
4	Ross-on-Wye	17.3	+12	N	4	pr	57	85	51	7	5	-	-	10	10	2500
5	Hartland Point	19.7	+2	N	5	c	57	85	51	8	8	2	-	7-8	9+	2500
	Bristol	17.8	+12	NW	5	c	58	75	50	7	5	7	-	9	10	2500
	Portland Bill	16.3	+4	WNW	4	c	58	92	56	8	5	2	-	7-8	9	4000
	Plymouth	18.9	+2	N	4	c	60	65	48	8	8	7	-	7-8	9	2500
	The Lizard	20.4	0	N	6	c	59	75	49	8	2	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	22.1	0	NW	6	bc	59	65	48	8	8	6	-	4-6	4-6	1500
	Guernsey															
6	Pembroke	21.2	+2	N	6	bcq	60	75	50	8	8	6	5	4-6	4-6	3000
7	Holyhead (Valley)	21.3	+14	NNW	6	c	56	75	49	8	5	7	-	7-8	9+	5000
	Chester (Sealand)	18.6	+8	NNW	4	c	58	75	50	8	5	2	-	9	10	1600
8	Manchester	18.0	+18	NNW	4	c	56	85	52	6	5	-	-	7-8	10	2000
10	Spurn Head	13.2	+12	NW	7	rr	55	97	55	6	6	2	-	7-8	10	800
	Catterick	19.2	+22	N	5	c	53	85	48	7	5	2	-	7-8	10	1400
	Tynemouth	07.9	+10	N	6	c	54	85	50	7	5	2	-	7-8	9+	1500
11	St. Abbs Head	19.7	+14	NNW	5	cq	52	85	48	8	5	4	-	7-8	9	2000
	Leuchars	20.0	+4	NNE	3	c	66	55	49	9	7	4	-	2-3	4-6	3500
12	Renfrew (Abbots I.)	20.1	+2	NW	2	c	66	55	48	9	1	5	5	7-8	7-8	3000
	Eskdalemuir	19.2	+10	NNE	3	c	60	65	46	8	5	-	-	7-8	7-8	2200
	Point of Ayre	20.6	+6	NNW	4	c	59	75	50	8	5	-	-	9	9	6000
13A	Tiree	24.3	+6	N	3	c	56	75	48	8	7	-	-	7-8	9	3500
13B	Stornoway	24.2	0	NW	3	c	57	75	49	8	1	6	5	4-6	9	2800
	Dalwhinnie	22.8	+4	NNE	3	c	55	65	43	8	5	-	-	9	9	2500
	Aberdeen	20.6	+6	NW	5	c/r	54	85	48	8	5	-	-	9+	9+	1600
	Wick	22.4	+6	NNW	5	r/d	52	85	47	9	5	-	-	10	10	2000
16	Sumburgh	19.7	0	NNW	4	c	53	85	48	8	5	-	-	10	10	1500
17	Blacksod Point	27.8	+4	NW	3	c	59	92	57	8	8	-	-	10	10	2500
18	Malin Head	24.6	+2	NE	1	c	56	75	49	8	8	-	2	7-8	9	2500
	Aldergrove	23.7	+4	NNW	4	c	58	65	48	8	5	-	-	9+	9+	2000
19	Birr Castle	24.7	+2	N	4	c	61	65	50	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	27.8	+2	NW	5	bc	61	75	54	8	8	-	-	4-6	4-6	4000
	Roches Point	25.0	+8	N	5	c	61	75	54	9	5	4	5	4-6	7-8	2500

OBSERVATIONS at 18h. G.M.T. 18th 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)	16.2	+14	NW	3	dd	55	92	53	6	6	2	-	7-8	10	800	1	*
Croydon	15.6	+12	NNW	4	id	55	97	54	6	6	2	-	9+	10	500	1	*
S. Farnborough	16.3	+10	NNW	5	in	55	85	51	6	5	2	-	9+	10	800	1	*
Boscombe Down	17.7	+8	NW	4	c	56	85	53	6	5	-	-	10	10	2000	1	*
Thorney Island	15.9	+4	NW	5	in	57	85	52	6	5	7	-	4-6	9	2500	1	*
Lympne	14.2	+6	NNW	4	rr	56	97	54	6	6	2	-	9	10	400	1	3
Manston	12.4	+8	NW	5	rr	57	97	56	5	6	2	-	9	10	500	1	§ *
Shoeburyness	14.0	+10	NNW	3	in	57	92	55	6	6	2	-	9	10	1000	1	*
Felixstowe	12.1	+8	NNW	5	rr	56	92	53	7	6	2	-	10	10	1200		
Gorleston	11.8	+4	N	6	s/r	56	92	54	6	6	-	-	10	10	800	1	4
Mildenhall	14.8	+16	NNW	5	dd	55	92	53	7	6	2	-	9+	10	400		*
Cranwell	17.2	+18	NWN	5	c	54	85	50	7	6	2	-	9	10	1000	1	*
Birmingham	18.7	+10	NNW	3	c	56	85	52	6	6	-	-	9+	9+	800	1	*
Upper Heyford	16.9	+8	NW	3	z	54	85	51	5	5	-	-	10	10	800	1	*
Ross-on-Wye	18.7	+10	NNW	3	c	58	75	51	7	5	-	-	10	10	2500	0	*
Hartland Point	21.1	+10	N	4	c	58	85	52	8	5	4	3	4-6	7-8	2500	0	5
Bristol	18.9	+4	NW	5	c	59	75	51	7	5	2	-	9	10	2500	0	*
Portland Bill	17.5	+10	W	4	c	58	92	56	8	5	-	-	10	10	2500	1	4
Plymouth	20.1	+6	NW	3	bc	61	65	50	8	7	7	-	4-6	4-6	2500	0	3
The Lizard	20.8	+6	N	6	bc	59	65	48	8	2	6	-	4-6	4-6	2500	0	4
Scilly (St. Mary's)	22.8	-2	NW	5	bc	60	65	49	8	5	4	4	1	4-6	1500	0	4
Guernsey																	
Pembroke	22.5	+6	N	6	cq	59	75	50	8	8	4	3	2-3	7-8	3000	0	4
Holyhead (Valley)	21.7	+4	NNW	5	c	57	75	49	8	8	4	2	1	7-8	4000	0	4
Chester (Sealand)	19.9	+6	NW	4	c	59	85	54	8	5	7	-	4-6	9+	2000	1	*
Manchester	19.1	+6	NW	4	c	58	75	51	6	5	7	-	7-8	9+	2000	1	*
Spurn Head	16.0	+14	NW	8	cq	55	92	52	6	6	2	-	7-8	10	800	1	5
Catterick	19.6	0	NNE	4	z	55	55	49	6	5	7	-	2-3	4-6	1500	1	*
Tynemouth	19.6	+6	N	6	c	54	85	49	7	8	3	-	4-6	7-8	2500	1	5
St. Abbs Head	19.8	+2	N	3	bc	53	85	49	8	5	4	-	4-6	4-6	3500	0	4
Leuchars	20.1	+2	N	2	c	62	55	49	9	4	6	6	Tr	7-8	3500	0	*
Renfrew (Abbots I.)	20.3	+4	NW	2	c	65	65	51	9	5	4	6	4-6	7-8	4500	0	*
Eskdalemuir	19.7	+2	ENE	2	c	59	75	50	8	8	-	8	7-8	7-8	2200	1	*
Point of Ayre	20.5	0	NNW	5	c	58	75	50	8	5	4	6	Tr	9+	1800	0	5
Tiree	23.9	0	NNW	3	bc	56	85	50	8	1	3	-	2-3	2-3	3500	0	
Stornoway	23.7	0	W	3	c	55	85	53	8	5	7	-	7-8	9+	2500	1	1
Dalwhinnie		0	NE	2	c	56	65	43	8	2	1	-	9+	9+	2500	0	
Aberdeen	20.7	+2	N	4	bc	55	75	47	8	5	-	6	4-6	4-6	2100	1	3
Wick	21.9	-2	NW	4	c	53	85	48	9	5	-	-	9+	9+	3000	1	*
Sumburgh	19.8	-2	NNW	5	c	51	85	47	9	5	3	-	9	9+	1800	0	3
Blacksod Point	27.7	0	NW	3	c	58	92	56	8	5	-	-	9+	9+	1500	0	3
Malin Head	24.6	-6	NW	4	c	57	75	50	8	8	-	-	9	9	1500	0	4
Aldergrove	23.7	-2	NW	3	c	57	65	49	9	7	4	8	2-3	7-8	3000	1	*
Birr Castle	24.9	0	N	3	c	63	55	48	8	4	-	5	4-6	7-8	2500	1	*
Valentia Obsy.	28.1	+2	NNW	4	in	57	85	53	8	5	-	-	9+	9+	1500	0	4
Roches Point	24.0	-4	N	5	bc	64	65	52	9	1	3	1	2-3	4-6	4000	0	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 18th (39)	Weather 13h.–18h. 18th (40)	Weather 18h. 18th to 1h. 19th (41)	Weather 1h.–7h. 19th (42)
London (Kew)	cridom	crddom	didoroc	czo
Croydon	ciridom	cddom	cidoc	c
S. Farnborough	cdrdcm	cmirrr	cmo	cbcmowbbc
Boscombe Down	c	crm	cbcbmo	c
Thorney Island	cr		cirocmo	bmobbc
Lympne	mddcm	cprrrm	cmororo	cmoroc
Manston	cirocicm	crr	rroroiro	crorocmo
Shoeburyness	cisprc	cir		o
Felixstowe	cidmcir	crrm	roro dodo	cddomcido
Gorleston	cprid	oirir	oiroiridq	odoc
Mildenhall	crmcddm	cddm	cdodomo	cmocidoc
Cranwell	cddm	cddmc	cmo	cmo
Birmingham	piro	oc	cbc	bcom
Upper Heyford	cidcm	ddrm	cbcb	bbcbcmo
Ross-on-Wye	crpc	c	cbc	
Hartland Point	cbcc	c	cb	bbc
Bristol	cidicc	cirido	cbc	
Portland Bill	c	cprc	c	c
Plymouth	cbcc	cbcc	bcb	bcbw
The Lizard	c	cbc	bcw	bc
Scilly (St. Mary's)	cpbc	bc	bc	bc
Guernsey				
Pembroke	cbcq	bccq	bcw	bcc
Holyhead (Valley)	c	c	bbc	bcc
Chester (Sealand)	cir	c	c	ccir
Manchester	cm	cm	czomo	bmowc
Spurn Head	cqrrm	cqirm	cq	c
Catterick	c	cbcbcmo	bcmocmo	cmobcc
Tynemouth	c	coc	c	cbc
St. Abbs Head	c	cbc	bc	bccbc
Leuchars	bc	bcc, bc	cbc	bccbc
Renfrew (Abbots I.)	c	cyc	cbc, w	bcc
Eskdalemuir	cbcc	c		bc
Point of Ayre	c	cbcc	cbcb	bbcc
Tiree	c	bc	c	c
Stornoway	c	c	cpro	ordd
Dalwhinnie	oc	c		c
Aberdeen	odcir	cbc	bc	bcb
Wick	cid	c	cirorc	cirocdod
Sumburgh	cid	c	cidoc	pfcidoc
Blacksod Point	c	c	c	d
Malin Head	c	c	d	:r
Aldergrove	c	c	ccdodocid	ocidodobc
Birr Castle	c	c		c
Valentia Obsy.	pr	bc	r	bc
Roches Point	bc	c	bc	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 19th July

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Moderate Northwest wind, fresh locally; fair at first; cloudy later with local rain: warmer.
5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Moderate Northwest or West wind, fresh locally: dull; occasional drizzle; coast and hill fog; rather warm and close.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Moderate West to Northwest wind, fresh locally; cloudy; local rain; rather warm and close.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Moderate West wind; dull; occasional rain or drizzle; coast and hill fog; rather warm and close.
16 Orkneys and Shetlands	As 12-15.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Moderate West to Northwest wind; much cloud; occasional drizzle; coast and hill fog in the West and North; rather warm and close.

GENERAL INFERENCE

An anticyclone is centred southwest of the British Isles and troughs of low pressure over Scotland are moving southsoutheast. There will be much very low cloud with drizzle, and coast and hill fog in the West and Northwest. In the East and South weather will be fair at first, but will be cloudy later with local rain.

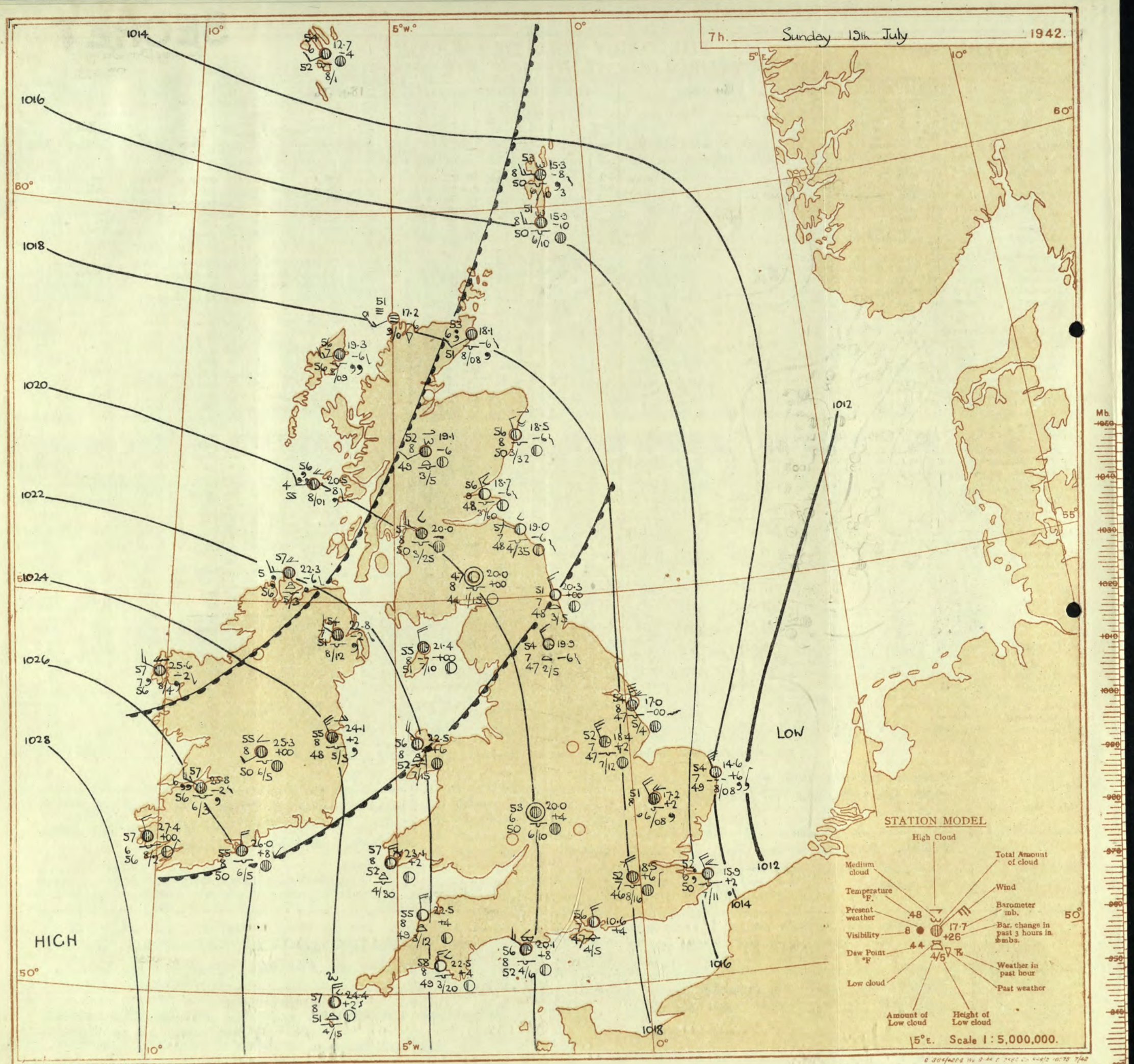
FURTHER OUTLOOK

Rather warm and close with much cloud at times. Coast and hill fog in the West and Northwest. Local rain particularly on high ground in the West and Northwest.

Forecasts issued at 1030.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Sunday 19th July 1942.



R.M.S.O. Press, Meteorological Office, 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).

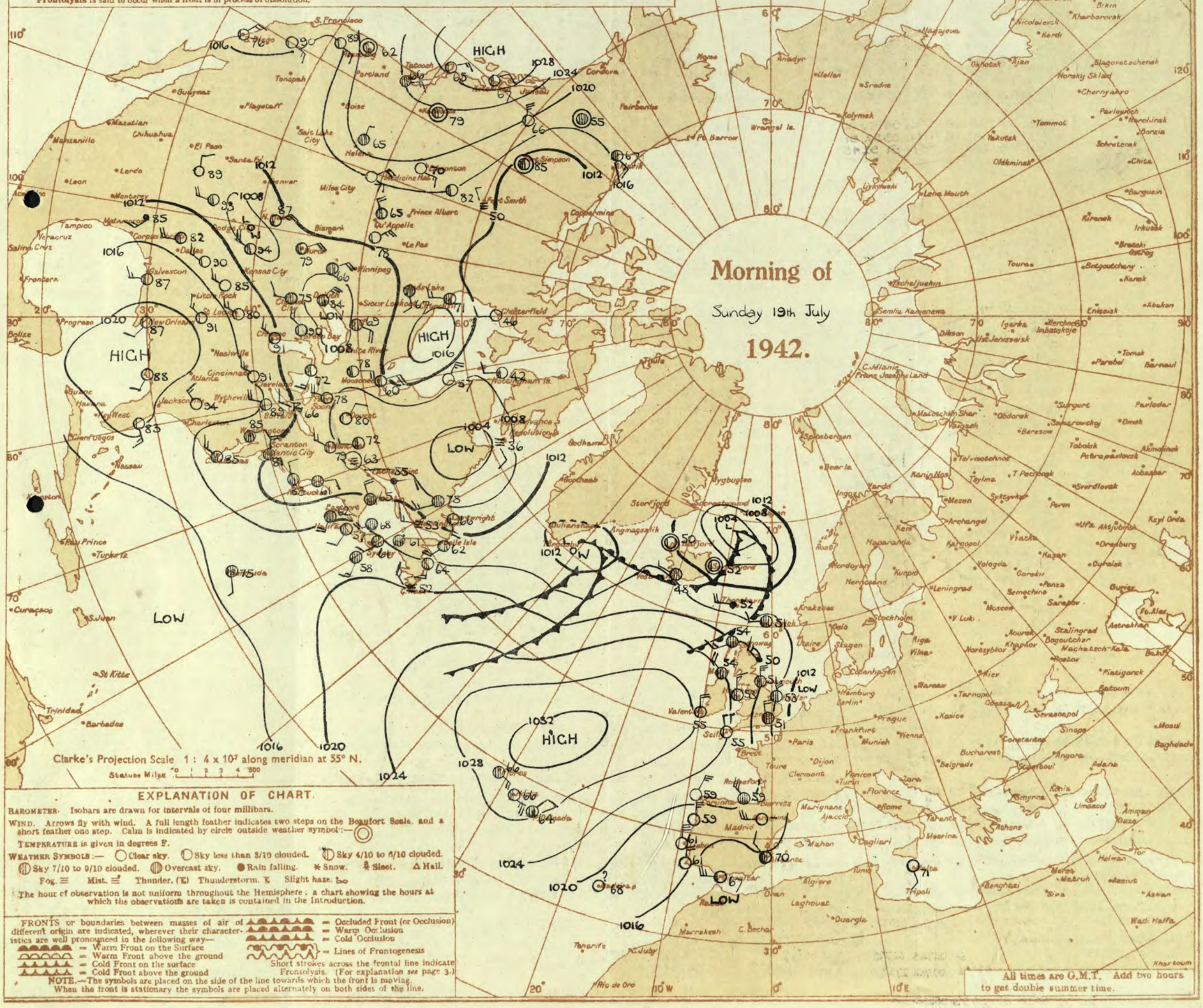
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



Page 4.

BRITISH SECTION

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

Sunday 19th July 1942

No. 29459

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)	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	*	*	*	*	*	53	*	*	*	*	*	*	*	*	*
	Croydon	290	18·0	+2	N'W	5	c	51	85	49	7	5	2	-	7-8	10	1400
	S. Farnborough	226	18·4	0	NW	4	zo	53	85	49	6	5	1	-	4-6	9+	1800
	Boscombe Down	417	19·8	+4	NW'N	3	zo	52	92	49	6	5	-	-	1	1	3500
	Thorney Island	10	18·1	+2	N'W	4	zo	55	75	48	6	5	-	-	10	10	2100
	Lympne	283	16·0	+4	NW	6	roro	52	92	50	6	6	2	-	10	10	200
	Manston	154	15·5	+6	NNW	4	%r	54	92	52	6	5	-	-	10	10	1000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	14·8	+2	NNW	5	%d	54	85	49	6	5	-	-	10	10	1500
	Gorleston	5	14·2	0	NNW	6	ido	53	92	51	6	6	-	-	10	10	800
	Mildenhall	15	17·2	-2	NW'N	4	%d	51	92	49	6	5	-	-	10	10	1300
	Cranwell	203	18·4	-8	NW'N	4	zo	51	85	47	6	6	2	-	9+	10	1500
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19·2	+18	N	3	b	49	92	46	7	5	-	-	1	1	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	22·1	0	N	4	b	55	85	51	8	-	4	-	0	Tr	-
	Bristol	209	20·9	+2	NNW	2	bc	56	75	49	7	5	3	-	4-6	7-8	4100
	Portland Bill	32	19·9	+10	NW	3	c	57	92	55	7	5	-	-	10	10	2500
	Plymouth	82	21·9	+16	NNW	2	b	54	85	52	8	5	-	-	1	1	3500
	The Lizard	240	23·2	+4	NW'N	3	bc	51	92	49	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	24·3	+2	N'W	2	bc	55	92	52	8	-	4	3	0	2-3	-
	Guernsey	175															
6	Pembroke	142	23·5	+2	N	3	bc	53	85	50	8	4	-	-	4-6	4-6	4000
7	Holyhead (Valley)	32	22·3	0	NNW	5	bc	53	85	47	8	5	-	-	2-3	2-3	2000
	Chester (Sealand)	16	20·5	0	WNW	4	c	56	85	53	7	5	-	-	10	10	1100
8	Manchester	235	20·1	-2	ENE	1	zo	51	97	50	6	5	-	-	2-3	2-3	5700
10	Spurn Head	29	17·6	-2	N'W	6	cq	53	75	57	7	6	2	-	7-8	10	800
	Catterick	175	20·7	-2	NNE	2	zo	52	92	46	6	5	-	-	7-8	7-8	1600
	Tynemouth	108	20·2	0	N	5	c	51	85	48	7	8	-	-	7-8	7-8	1500
11	St. Abbs Head	280	20·1	0	N	3	bc	50	92	48	8	5	4	-	2-3	4-6	4000
	Leuchars	36	20·2	-6	W	1	bc	51	97	49	8	-	7	-	0	4-6	-
12	Renfrew (Abbots I.)	19	20·9	-2	WSW	2	bc	51	85	47	8	5	-	-	4-6	4-6	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	21·6	+2	N'W	5	b	54	85	50	8	4	4	-	Tr	1	1500
13A	Tiree	22	23·1	-8	NW'W	2	c	54	85	49	8	5	-	-	9+	9+	2500
13B	Stornoway	80	21·4	-18	SW	3	zo	54	85	50	7	5	2	-	7-8	10	1200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	20·2	-4	NW'W	3	iro	50	92	47	9	5	7	-	7-8	9	1900
	Wick	114	19·7	-6	WNW	2	%r	52	92	50	8	5	2	-	7-8	9+	1800
16	Sumburgh	19	17·9	-16	WSW	2	ido	51	97	51	7	5	-	-	9+	9+	900
17	Blacksod Point	18	27·1	-10	WNW	1	c	55	97	54	7	5	-	-	10	10	1500
18	Malin Head	84	24·1	-2	NW	3	c	54	85	50	8	8	-	-	10	10	1500
	Aldergrove	268	24·4	+4	NW	3	ido	53	92	51	7	5	-	-	10	10	1900
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	27·7	-6	N	4	bc	55	75	47	8	5	-	3	2-3	2-3	2500
	Roches Point	22	25·5	0	N	4	c	55	85	50	8	5	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. 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)	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 18th. Hrs. (38)
London (Kew)	18·8	+4	NNW	2	zo	53	75	46	6	5	-	-	10	10	2500	1	*	58	51	48	1	0·4	0·0
Croydon	18·5	+6	NNW	3	c	52	85	46	7	5	-	-	10	10	1600	1	*	57	50	48	3	0·6	0·0
S. Farnborough	19·2	+6	N'W	4	bc	52	75	45	7	5	3	-	4-6	7-8	3500	1	*	57	48	42	2	0·2	0·0
Boscombe Down	19·7	+2	NNW	4	c	55	85	50	7	5	-	-	9+	9+	1400	0	*	58	51	47	0·4	Tr	0·3
Thorney Island	18·6	+4	NNW	3	bc	56	75	47	7	4	-	-	4-6	4-6	2500	0	*	60	50	47	0·1	Tr	*
Lympne	16·1	0	N'W	5	c	51	85	47	8	5	4	-	7-8	9	900	1	§4	62	49	*	1	3	0·0
Manston	15·9	+2	NW	4	dr	52	92	50	6	5	2	-	9+	10	1100	1	*	63	52	50	3	3	0·7
Shoeburyness	17·6	+10	NNW	3	o	53	85	46	8	5	-	-	10	10	1000	1	*	66	51	50	2	0·2	1·1
Felixstowe	15·1	+2	NNW	4	ido	53	85	50	7	5	2	-	7-8	10	1200	1	3	64	*	50	1	0·3	0·1
Gorleston	14·6	+6	N'W	5	%d	54	85	49	7	6	-	-	10	10	800	1	4	62	52	50	2	0·1	0·6
Mildenhall	17·2	+2	NW'N	4	c	51	85	46	8	5	2	-	9	10	800	1	*	59	50	49	7	0·3	0·0
Cranwell	18·4	+2	NW'N	5	c	52	85	47	7	5	-	-	9+	9+	1200	1	*	*	50	48	5	-	0·0
Birmingham	20·1	+2	NW	3	c	54	85	50	7	5	-	-	9+	9+	1500	1	*	57	53	48	1	-	0·0
Upper Heyford	19·4	+6	N'W	2	zo	52	85	46	6	5	-	-	7-8	7-8	1500	1	*	55	47	44	3	-	*
Ross-on-Wye	20·4	+4	WNW	3	c	54	85	48	8	5	-	-	9+	9+	3000	0	*	60	52	47	0·2	-	0·0
Hartland Point	22·5	+4	N	4	bc	55	85	49	8	2	4	1	2-3	4-6	1200	0	4	58	54	52	-	-	3·2
Bristol	21·3	+4	NW'W	3	b	55	85	49	7	5	4	-	Tr	1	2500	0	*	61	50	46	0·1	-	0·1
Portland Bill	20·1	+8	WNW	3	c	56	85	52	8	5	7	-	4-6	9	4000	1	3	59	55	*	0·1	-	*
Plymouth	22·5	+4	N	3	bc	58	75	49	8	5	4	-	2-3	2-3	2000	0	3	63	52	44	-	-	4·9
The Lizard	23·5	+4	NNW	4	bc	56	92	54	8	8	6	-	4-6	4-6	2500	0	3	62	50	*	-	-	7·4
Scilly (St. Mary's)	24·4	+2	N'W	4	bc	57	85	51	8	8	4	9	4-6	4-6	1500	0	3	61	53	*	0·1	-	10·2
Guernsey																							
Pembroke	23·1	+2	N	4	c	57	85	52	8	8	6	-	4-6	7-8	3000	0	3	62	47	*	-	-	10·2
Holyhead (Valley)	22·5	+6	NW'N	4	c	56	85	52	8	8	-	-	9+	9+	1500	0	4	59	52	48	-	-	*
Chester (Sealand)	20·7	+6	W'N	5	ido	56	85	52	7	5	-	-	10	10	1600	0	*	60	55	51	Tr	-	0·4
Manchester	20·2	+2	-	0	zo	51	97	50	5	5	3	-	2-3	7-8	4000	1	*	58	42	36	-	-	*
Spurn Head	17·0	0	N'W	6	c	54	85	47	8	5	2	-	7-8	10	1500	0	5	57	51		5	-	
Catterick	19·9	-6	NNW	3	c	54	75	47	7	1	7	9	1	9	2500	1	*	56	48	39	1	-	1·3
Tynemouth	20·3	0	NNW	3	bc	51	92	48	7	2	3	1	2-3	4-6	2500	1	3	55	48	46	1	-	*
St. Abbs Head	19·0	-6	WNW	1	bc	57	85	48	7	5	4	-	4-6	4-6	3500	0	3	56	49	*	Tr	-	
Leuchars	18·7	-6	NNW	2	bc	56	75	48	9	5	4	8	2-3	4-6	6000	0	*	67	50	43	*	-	10·4
Renfrew (Abbots I.)	20·0	-2	W'N	2	c	57	75	50	8	5	4	-	2-3	9	2500	0	*	69	50	43	*	-	6·9
Eskdalemuir	20·0	0	-	0	bc	47	85	44	8	5	4	1	Tr	2-3	1500	1	*	63	40	35	-	-	5·4
Point of Ayre	21·4	0	N'W	4	c	55	85	51	8	6	-	-	9+	9+	1000	0	4	62	53	*	-	-	4·2
Tiree	20·5	-8	W	2	DD	56	97	53	4	-	2	-	10	10	100	1	3	59	54	*	-	0·3	7·4
Stornoway	19·3	-6	WSW	3	%d	56	97	56	7	5	-	-	10	10	900	1	1	60	52	*	-	2	2·3
Dalwhinnie	19·5	-6	SW	2	c	52	85	49	8	8	3	1	2-3	7-8	2500	0	*	58	39	32	-	-	3·[illegible]
Aberdeen †	18·5	-6	NW'N	1	bc	56	85	50	8	5	9	1	2-3	4-6	3200	1	1	56	49	45	Tr	-	2·5
Wick	18·1	-6	SW	2	dr	53	92	51	6	5	-	-	10	10	800	1	*	54	50	48	Tr	0·1	*
Sumburgh	15·9	-10	W	3	c	51	97	50	8	5	3	-	9	9	1000	1	3	54	50	46	-	0·2	0·2
Blacksod Point	25·6	-2	WNW	3	ido	57	97	56	7	-	2	-	10	10	1500	1	3	60	55	*	Tr	0·2	
Malin Head	22·3	-6	W	3	dr	57	97	56	5	8	2	-	7-8	10	800	1	2	58	53		-	0·5	6·4
Aldergrove	22·8	-2	WNW	2	c	54	85	51	7	5	-	-	10	10	1200	1	*	59	51	48	-	0·6	33
Birr Castle	25·3	0	SW	1	c	55	85	51	8	5	1	-	9	10	2500	1	*	64	52	51	-	-	
Valentia Obsy.	27·4	0	NW	2	zo	57	97	56	6	5	-	-	10	10	450	0	3	63	54	51	Tr	0·2	5·1
Roches Point	26·0	+8	N	4	c	55	85	51	8	5	-	-	9	9	2500	0	3	65	54	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 18th July ... 18h. G.M.T. — 01h. G.M.T. 19th July ... 07h. G.M.T.

III	$C_L C_M$ (13h)	$wwVhN_h$	DDFWN	$C_L C_M$ (18h)	$wwVhN_h$	DDFWN	$C_L C_M$ (01h)	$wwVhN_h$	DDFWN	$C_L C_M$ (07h)	$wwVhN_h$	DDFWN
109	5-	03748	29458	51	02854	27426	5-	22747	25368	5-	52638	24458
115	52	02844	02427	54	02844	20326	52	02835	20328	--	67109	20389
203							5-	03938	16428	5-	02938	16428
206	53	02965	02327	57	02964	28317	53	02963	28324	5-	02967	22217
210	5-	02958	30458	44	02964	31316	57	02945	23227	57	02974	20327
220										5-	57308	28158
230	13	02964	26315	14	02952	26425	57	01853	26313	52	02834	22158
245	84	01855	64515	74	01953	64414	54	02953	32215	04	01990	23164
260	2-	02855	32215	44	02853	27215	44	02862	26117	04	01890	22113
278	80	01963	61514	10	02851	61517	54	01843	28413	57	02845	27427
279	5-	02967	01327	74	02963	30125	50	01853	08213	53	01842	00015
285	6-	05638	02528									
288	62	05638	62628	52	05646	65526	5-	05648	28328	53	05661	28312
575	53	02855	32327	74	02855	30225	5-	02847	28357	5-	61728	28268
301	57	02856	32527	87	02863	30825	50	00762	28322	53	02745	30317
321	5-	02848	30568	5-	02748	32528				24	01854	29524
299	5-	22638	32768				5-	03748	32729	8-	14745	32615
292	62	02637	64558	53	01754	65525	5-	02758	27328	54	02744	28225
310												
614	52	08445	63568	52	05545	35428	53	05655	30226	10	05652	30223

13h. G.M.T. 18th July ... 18h. G.M.T. — 01h. G.M.T. 19th July ... 07h. G.M.T.

III	$C_L C_M$ (13h)	$wwVhN_h$	DDFWN	$C_L C_M$ (18h)	$wwVhN_h$	DDFWN	$C_L C_M$ (01h)	$wwVhN_h$	DDFWN	$C_L C_M$ (07h)	$wwVhN_h$	DDFWN
338	57	51865	64467	44	02663	32425	5-	02857	30417	5-	02854	30424
334	--	03666	28228									
340	62	22768	31368	5-	02857	31327	5-	02748	30228	5-	02746	27226
136	02	64528	32468	5-	52628	32658	5-	52648	30558	5-	52748	32588
336	70	02756	32410	57	01755	32315						
350	52	63626	26368	52	05647	62468	5-	05648	28428	5-	02758	28328
368	57	62855	30466	54	02754	32425	50	01754	28314	53	01861	26214
379	62	64637	30565	5-	05648	63568	5-	02747	32327	5-	21637	30357
390	62	52526	26458	62	51527	63558	62	52547	63558	5-	02746	63558
882	62	61645	63468	52	21645	65468	00	05690	29310	54	05653	31324
438	5-	03638	23388	02	61618	30428	52	14746	30528	5-	02755	31415
430	5-	05647	30027	5-	51436	30458	5-	05648	02228	10	01764	32404
409	2-	02847	64627	70	01845	64624	04	00790	32411	24	01954	31415

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 19th 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	crid,mo	crdd,mo	id,r,cz
Croydon	cr,id,mo	cd,d,m	cid,c
Greenwich	irdc	cid,d	id,dc
Camden Square	cr	cr	*
Kensington	cr	cr	*
Hampstead	or	or	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·1 Time 7-19h 18th. Min. <0·1 Time 6-4h 18th.

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	58	51	48	1	0·4	0·0	*	*
Croydon	57	50	48	3	0·6	0·0	*	*
Greenwich	58	51	49	1	0·3	0·0	85	70
Westminster	59	52	51	1			82	78
Regents Park								
Camden Square	58	51	49	1	0·5	*	*	71
Kensington	58	51	49	2	0·4		85	73
Hampstead	56	46	43	2	1		*	80

Page 1

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

SECRET

Monday 20th July 1942

No. 29460

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)	17·5	-12	N	4	bc	65	45	44	7	1	-	1	1	2-3	2500
	Croydon	17·6	-10	NW'N	4	bc	66	55	50	7	1	4	-	2-3	2-3	2400
	S. Farnborough	17·6	-10	NNW	5	bc	67	45	47	7	1	-	4	4-6	4-6	3000
	Boscombe Down	19·5	-2	N'W	5	c	64	55	47	8	1	-	2	4-6	7-8	4100
	Thorney Island	18·0	-4	NW	4	bc	69	55	48	7	1	-	1	4-6	4-6	2000
	Lympne	17·2	+2	NW	5	bc	60	65	48	8	5	-	-	7-8	7-8	2500
	Manston	16·3	+2	NNW	5	c	57	85	52	7	5	2	-	9	9+	1100
2	Shoeburyness	17·3	-4	NNW	4	c	63	65	50	8	5	-	-	7-8	7-8	2200
	Felixstowe	15·9	+4	NNW	5	c	59	75	49	7	5	-	-	7-8	7-8	2900
	Gorleston	15·8	+4	N'W	5	c	55	85	48	7	8	-	-	10	10	800
	Mildenhall	17·3	-6	N'W	4	bc	61	65	50	8	7	-	-	4-6	4-6	2500
	Cranwell	17·7	-10	NNW	4	bc	64	55	50	7	5	3	-	2-3	7-8	3000
3	Birmingham	19·4	-4	NNW	3	bc	63	65	51	8	7	-	9	4-6	4-6	2500
	Upper Heyford	17·9	-8	NW	4	z0	66	55	49	6	2	-	8	4-6	4-6	3000
4	Ross-on-Wye	19·4	-10	NW	3	bc	68	55	49	8	1	-	6	1	4-6	4000
5	Hartland Point	22·6	-2	NNW	4	bc	58	85	53	8	2	4	5	4-6	4-6	5100
	Bristol	20·3	+10	NW'W	4	o	66	65	51	8	1	-	6	4-6	9	4000
	Portland Bill	19·7	-8	W	3	c	64	85	51	8	2	4	-	4-6	7-8	4000
	Plymouth	22·3	-2	NNW	4	c	63	65	49	8	5	-	2	4-6	7-8	2500
	The Lizard	23·0	-4	N	4	c	60	75	52	8	8	2	-	7-8	9+	2000
	Scilly (St. Mary's)	24·7	0	NW'N	4	bc	59	85	53	8	8	6	-	4-6	4-6	1200
	Guernsey															
6	Pembroke	23·7	0	NW	3	bc	59	75	51	8	2	4	-	2-3	4-6	2500
7	Holyhead (Valley)	21·0	-6	NW	3	bc	62	75	54	8	5	4	1	4-6	7-8	2500
	Chester (Sealand)	20·6	0	WNW	5	c	58	75	52	8	5	-	-	10	10	2000
8	Manchester	19·5	-6	WNW	4	bc	61	75	52	8	1	-	1	4-6	7-8	2500
10	Spurn Head	18·7	+8	N'W	6	c	58	75	47	7	7	6	-	4-6	7-8	1500
	Catterick	18·0	-12	N	3	c	67	55	47	7	1	-	6	1	9	4000
	Tynemouth	19·6	-4	NE	2	bc	59	75	51	7	2	3	-	4-6	4-6	3000
11	St. Abbs Head	16·7	-18	E	1	o	61	65	50	7	5	-	-	10	10	4000
	Leuchars	17·1	-10	W	1	c/d	62	85	58	8	7	7	-	7-8	9+	3000
12	Renfrew (Abbots I.)	18·6	-10	WNW	3	c	62	85	56	8	5	2	-	7-8	9+	1800
	Eskdalemuir	17·5	-10	WSW	2	pr	63	75	54	8	8	7	-	4-6	9+	1800
	Point of Ayre	20·7	-6	NW'W	3	c	60	85	53	8	5	2	-	9+	10	1800
13A	Tiree	20·4	0	NW'W	3	c	58	92	56	6	5	-	-	9+	9+	200
13B	Stornoway	18·9	-2	WNW	4	c	59	85	53	8	5	7	-	7-8	9+	3500
15	Dalwhinnie	18·6	-10	W	2	c	61	75	54	8	8	-	-	7-8	7-8	2500
	Aberdeen	17·1	-8	W	1	id0	60	85	56	7	5	-	-	9+	9+	1300
	Wick	16·8	-4	WNW	4	c	59	85	54	9	6	-	-	9+	9+	800
16	Sumburgh	14·3	-10	WSW	2	df	53	97	53	2	5	-	-	10	10	100
17	Blacksod Point	25·6	-2	WNW	3	c	60	97	59	7	5	-	-	10	10	800
18	Malin Head	22·1	+2	NW	3	c/d	58	97	57	5	5	2	-	4-6	10	450
	Aldergrove	21·8	-6	W'N	2	o/d	61	85	57	8	5	-	-	10	10	1000
19	Birr Castle	24·1	-10	NW	3	c	64	85	59	8	5	2	-	7-8	10	2500
20	Valentia Obsy.	27·4	-2	NW'W	3	o	60	92	58	7	5	-	-	10	10	450
	Roches Point	24·3	-14	N	4	bc	66	85	61	8	5	4	-	4-6	4-6	2500

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)	17·0	-2	NNW	3	z0	67	55	49	6	5	-	-	9+	9+	2500	1	*	cbcby	bccz0y	cbccz0	cid0cm0
Croydon	17·1	0	NW'N	4	c	65	65	55	6	5	4	6	2-3	9+	3000	1	*	ccz0bcy	bcycm0⊕	cm0id0	cm0id0
S. Farnborough	17·3	-4	NW	3	c	67	55	48	7	4	7	6	Tr	9	4000	0	*	ocbcy	bccy	ccm0	cm0ocm0
Boscombe Down	18·5	-6	NNW	4	c	69	55	51	9	1	3	6	2-3	7-8	4500	0	*	bccy	cbccy	cbc	cm0c
Thorney Island	17·9	0	NW	3	bc	68	55	49	8	-	4	2	1	7-8	4000	0	*	bcy	bcy	bcc	cbct0c
Lympne	17·6	+2	NNW	2	bc	62	65	51	8	-	-	9	0	4-6	-	1	§2	c	bcy	bccm0d0d0cm0	cm0r0r0or0
Manston	16·6	+2	N	3	bc	60	85	56	8	-	4	4	0	2-3	-	1	*	cr0d0m0ir0c	cbcbbc	bccm0ir0	cir0d0m0
Shoeburyness	17·2	0	N'W	3	c	64	65	51	8	5	-	2	2-3	7-8	3500	0	*	oc	cbcyc		c
Felixstowe	16·1	0	NNW	4	bc	61	65		8	1	4	1	2-3	4-6	2500	1	3	cid0c	cbc	bcc	c
Gorleston	16·8	+4	N'W	4	c	55	75	49	7	8	-	-	9	9	1400	0	4	c	c	c	c
Mildenhall	17·2	-2	N'E	2	bc	60	75	52	8	1	7	2	Tr	4-6	2500	0	*	cbc	bc	cm0id0d0cm0	cm0c
Cranwell	17·1	-2	E	2	c	64	75	56	7	5	-	-	10	10	3000	0	*	cm0cbc	bcc	bcd0d0m0cm0	cm0bccm
Birmingham	19·1	0	NNW	4	bc	61	75	53	8	7	3	-	2-3	4-6	2500	1	*	cbc	bc	cr0	co
Upper Heyford	18·1	+2	NNW	4	z0	64	65	51	6	4	3	6	Tr	4-6	3000	0	*	bcm0z0	cz0ycz0	ccidb	bbccm0
Ross-on-Wye	18·6	-4	WNW	4	bc	68	65	54	8	7	3	9	4-6	4-6	4000	0	*	ccbc	bcyc	cd0c	bc
Hartland Point	22·4	0	WNW	3	c	58	92	55	8	5	2	-	1	9+	1500	0	3	bc	bcc	cbc	bcc
Bristol	19·7	0	W'N	5	c	68	65	54	9	1	3	2	2-3	9	4000	0	*	bcc	ccv	cbbm0w	bm0wc
Portland Bill	19·0	-2	W	3	c	63	85	60	8	5	-	-	9	9	4000	1	3	c	c	c	bcc
Plymouth	22·0	-4	NW'N	4	bc	62	75	63	8	1	4	6	2-3	2-3	2500	0	3	cbc	cbc	bcbbc	c
The Lizard	22·9	-6	NNW	4	bc	61	85	56	8	2	6	-	4-6	4-6	2000	0	4	c	cbc	bcocw	bcc
Scilly (St. Mary's)	24·5	-4	NW'W	3	c	60	85	55	8	5	3	-	9	9+	1200	0	3	bccbc	cbcc	c	cbcc
Guernsey																					
Pembroke	22·8	-4	NW'W	3	c	57	97	56	8	5	1	-	9	10	2500	0	3	cbc	c	cbc	c
Holyhead (Valley)	21·1	-6	WNW	2	ir0	60	85	56	8	8	7	-	7-8	9+	1600	1	2	cid0c	cid0	cbc	c
Chester (Sealand)	19·5	-6	W'N	4	c	61	85	56	7	5	-	-	10	10	1500	0	*	cd0	c	cid0bc	cid0c
Manchester	19·4	-2	WNW	4	c	59	85	56	8	5	-	-	10	10	2000	1	*	bcm0	bcc	cm0	cm0
Spurn Head	17·7	0	N'E	4	c	58	75	50	7	7	6	-	9+	9+	1500	0	4	cq	c	cpr	cf
Catterick	17·7	+4	NNE	2	m	59	75	53	4	5	7	-	7-8	10	2000	0	*	cbcc	cyir0m0	cir0mm0	cm0bcfc
Tynemouth	18·6	0	S	2	c/pr	52	85	49	7	8	-	-	9+	9+	3000	1	3	cbc	bcp0	cp0cm0	cm0
St. Abbs Head	16·9	-2	SE	1	c	56	85	52	7	5	-	-	9+	9+	3500	0	2	bcm0o	or0oc	cbcc	coc
Leuchars	16·5	+4	ESE	2	bc	62	85	57	8	2	4	9	1	2-3	2500	0	*	cir0d0c	cbc	bbcc	c
Renfrew (Abbots I.)	17·6	-2	NW	5	b	66	65	51	9	1	3	1	Tr	1	4000	0	*	cid0c	bcyby	bybcc	c
Eskdalemuir	16·6	-6	NW'W	3	bc	65	65	52	8	8	-	1	2-3	4-6	2200	0	*	bccpr0	cpr0bc	bbc	bcc
Point of Ayre	19·5	-4	NW'N	5	c	59	92	56	7	5	3	-	4-6	9+	400	0	4	cbcc	cbcc	co	oc
Tiree	20·4	0	NW'N	2	p	56	97	55	4	5	-	-	10	10	100	0	3	oid0c	coid0	ofm	
Stornoway	18·8	-2	WNW	4	c	58	85	54	8	5	7	-	7-8	10	2500	1	2	c	c	c	cdd
Dalwhinnie	18·2	-2	SW	2	bc	61	65	51	8	2	3	-	1	2-3	4000	0	*	c	cbc		bcprc
Aberdeen	17·0	+2	E'N	3	pr	61	75	54	8	8	3	5	4-6	4-6	2400	0	1	bcoid	cid0bc	bcc	cz0c
Wick	17·4	+2	NW	4	c	56	85	52	8	5	-	-	10	10	1000	1	*	c	cd0cjpc	cir0	ccir0jf
Sumburgh	14·5	+2	WNW	3	z0	52	97	51	6	5	-	-	10	10	400	0	2	ofd0d0	ofd0d0mcm	cm0d0d0m0	cd0d0of
Blacksod Point	25·3	-2	W'N	3	c	59	92	57	7	-	1	-	0	10	-	1	3	c	c	c	bc
Malin Head	22·0	0	NW	4	f+	57	97	56	3	-	-	-	10	10	<150	1	2	r	f	d	d
Aldergrove	21·4	-4	NW	3	c	63	85	55	8	5	4	-	7-8	9	1200	1	*	cid0ir0c	cid0c	cm0id0	cid0c
Birr Castle	23·3	-4	NW	1	c	68	75	60	8	8	1	-	7-8	9+	1500	0	*	d	c		c
Valentia Obsy.	27·2	-2	NNW	3	c	62	85	57	8	5	-	-	9+	9+	2500	0	3	d	c	d	f
Roches Point	24·1	+2	N	5	bc	68	75	60	9	1	4	-	2-3	4-6	4000	0	3	c	bc	bc	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 20th July, 1942.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Moderate Northwest winds; mainly cloudy or dull: a little local drizzle; close.
5 S.W. England, 6 South Wales	Light to moderate Northwest winds; mainly fair with some bright periods; close.
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	Moderate to fresh West to Northwest winds; mainly dull; occasional drizzle or light rain; heavier falls in western hills; local coast and hill fog in the west; close.
13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland, 16 Orkneys and Shetlands	Moderate to fresh Westerly winds veering Northwest later; dull with drizzle or rain at times; brighter periods likely tomorrow; some hill and coast fog; close today, cooler tomorrow.
17 N. W. Ireland, 18 N. E. Ireland	As 7-12.
19 S. E. Ireland, 20 S. W. Ireland	As 5-6.

GENERAL INFERENCE

A large anticyclone, centred to Northeast of the Azores persists. A depression from Iceland will move eastsoutheast. Weather will be mainly cloudy and close with some occasional light rain or drizzle in the North but with little or no appreciable precipitation over much of England and Ireland.

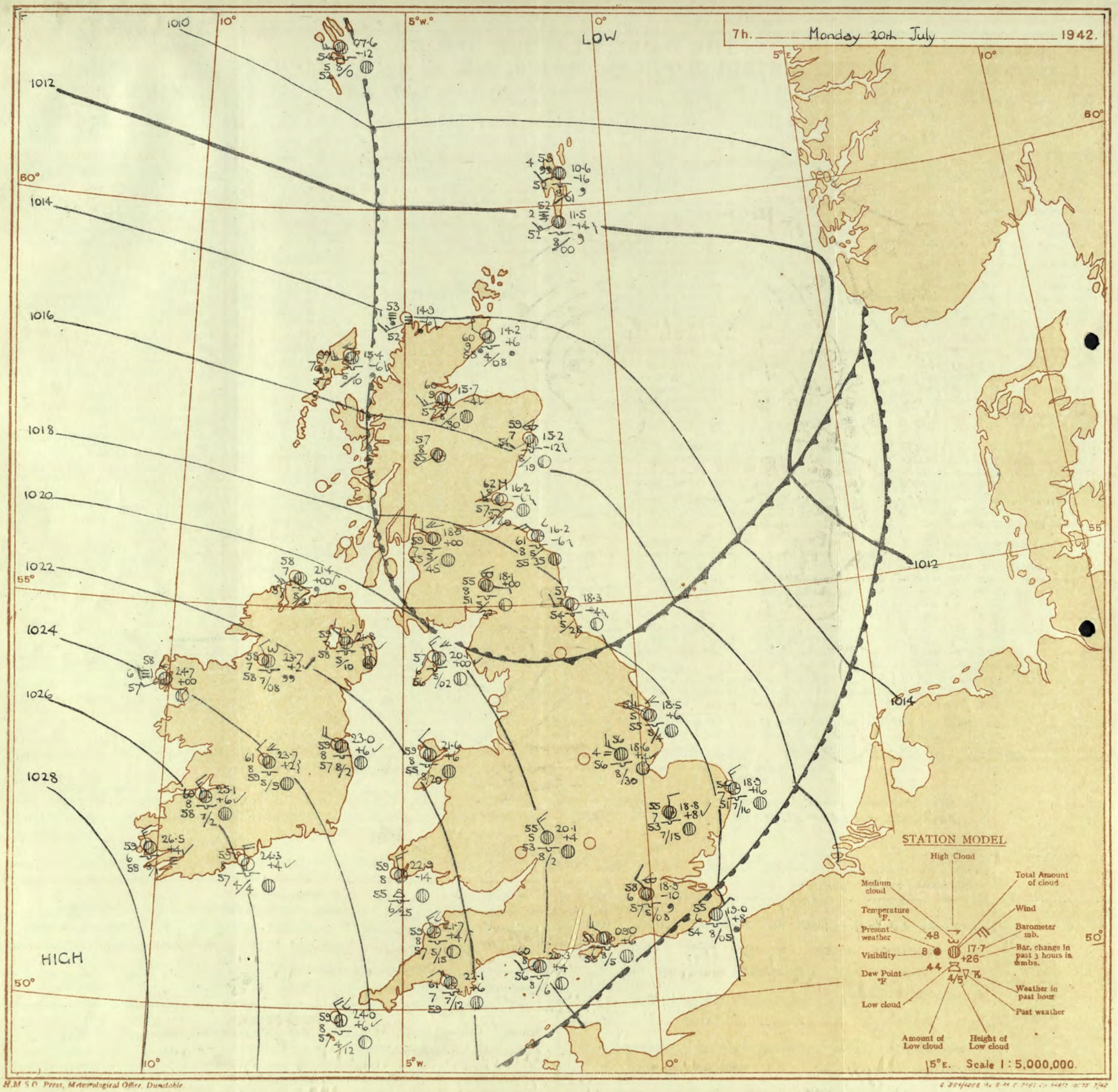
FURTHER OUTLOOK

Mainly cloudy but little or no appreciable rain in many parts of England.

Forecasts issued at 10·30.

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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).

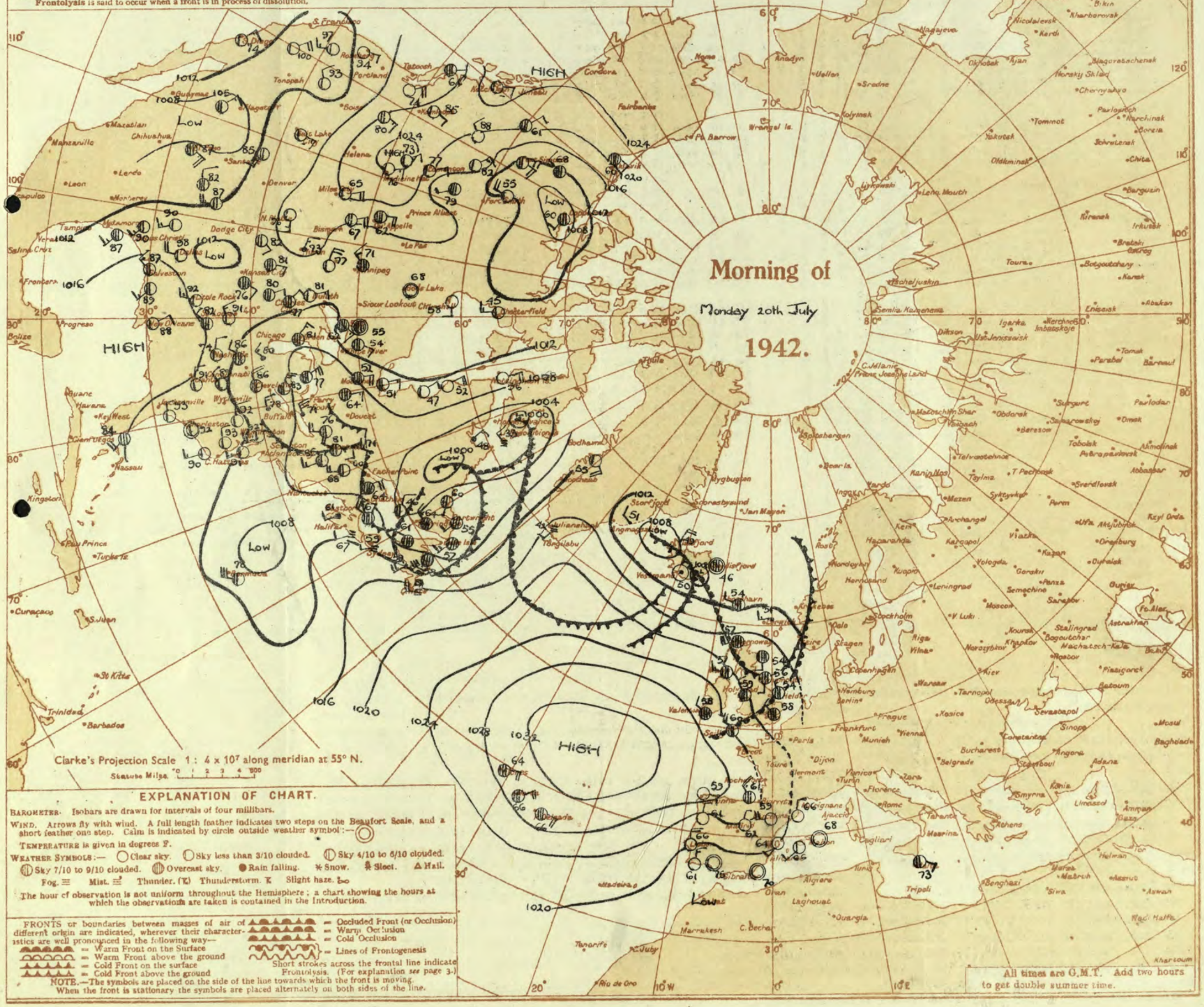
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Monday 20th July 1942

No. 23460.

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)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	59	*	*	*	*	*	*	*	*	*
	Croydon	290	18·2	-2	NW	2	c/d	58	92	56	6	5	2	-	9	10	1300
	S. Farnborough	226	18·6	-4	WNW	2	c	59	85	54	6	5	-	-	10	10	2800
	Boscombe Down	417	19·5	0	NW'W	3	bc	57	85	54	8	5	-	-	2-3	2-3	2500
	Thorney Island	10	18·7	+2	WNW	3	c	59	85	53	7	5	7	-	7-8	10	3600
	Lympne	283	18·1	-2	S	2	z0	57	85	53	6	5	-	-	10	10	2000
	Manston	154	17·4	0	NNW	2	ir0	57	92	54	6	5	-	-	9	9	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	17·2	+2	NNW	1	c	55	85	52	7	5	-	-	10	10	1400
	Gorleston	5	17·3	0	N'W	3	c	54	85	48	7	5	-	-	10	10	1500
	Mildenhall	15	18·0	0	NW'N	2	c/d	54	97	54	6	5	-	-	7-8	10	300
	Cranwell	203	18·3	+4	SW'S	1	z0	55	97	65	6	5	-	-	10	10	1000
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18·6	0	NW	2	z0	55	92	53	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	21·5	-6	WNW	3	bc	59	97	58	8	5	4	-	1	4-6	1500
	Bristol	209	20·5	+2	W	2	z0	56	92	54	6	-	4	-	0	Tr	-
	Portland Bill	32	19·7	-6	NW	3	c	58	85	54	8	5	-	-	7-8	7-8	4000
	Plymouth	82	22·0	-2	NW	3	c	59	92	57	7	5	7	-	4-6	7-8	2000
	The Lizard	240	23·2	0	NNW	3	c	58	97	58	8	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	24·0	-10	NW'N	4	c	60	92	57	7	5	-	-	4-6	7-8	1200
	Guernsey	175															
6	Pembroke	142	21·9	-6	NW	4	bc	60	85	55	8	8	-	-	4-6	4-6	4000
7	Holyhead (Valley)	32	21·0	0	NW'N	2	c	59	92	56	8	5	-	-	7-8	9+	1200
	Chester (Sealand)	16	19·7	+4	NNW	3	c	57	92	55	7	5	-	-	9+	9+	3500
8	Manchester	235	19·2	+4	WNW	3	z0	57	97	55	6	5	-	-	10	10	1500
10	Spurn Head	29	18·1	+2	NW	3	c	54	92	51	7	5	2	-	7-8	9+	1500
	Catterick	175	18·6	-2	-	0	z0	54	92	53	5	5	1	-	4-6	7-8	1800
	Tynemouth	108	18·7	+2	SSW	2	z0	56	92	54	5	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	17·0	-4	W	2	c	57	85	53	7	5	-	-	7-8	7-8	4000
	Leuchars	36	17·5	-2	NW	1	c	55	97	54	8	5	7	-	4-6	9	3000
12	Renfrew (Abbots I.)	19	19·0	0	WNW	2	c	57	85	52	8	5	-	-	4-6	9+	4500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	19·9	0	NNW	4	•0	56	97	55	7	5	-	-	10	10	800
13A	Tiree	22	20·8	-6	WNW	2	m/f	56	97	56	4	5	-	-	10	10	800
13B	Stornoway	80	17·5	-10	SSW	4	z0	57	97	57	6	5	-	-	10	10	300
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	17·4	-2	SW'S	1	c	54	92	52	9	5	7	-	7-8	9	4500
	Wick	114	16·4	-6	NW'W	2	ir0	55	85	52	6	5	-	-	10	10	800
16	Sumburgh	19	13·7	-10	W'N	4	d.d0	52	92	50	6	5	-	-	10	10	800
17	Blacksod Point	18	25·2	-2	WNW	1	o	58	92	56	6	-	1	-	0	10	-
18	Malin Head	84	21·9	-2	W	3	df	57	97	56	2	-	-	-	10	10	<150
	Aldergrove	268	22·2	+2	W'N	3	id0	57	85	53	6	5	-	-	10	10	800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	26·7	-4	NW'W	2	F	58	97	57	1	5	-	-	10	10	<150
	Roches Point	22	24·9	0	N	5	bc	58	85	53	8	5	-	-	4-6	4-6	2500

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

Stations	Barom at M.S.L. mb. (16)	Change in 8 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)	19·4	+12	N'E	2	c/d	60	85	55	6	5	-	-	10	10	1500	1	*
Croydon	18·9	+10	NW	2	z0	58	92	57	6	5	7	-	7-8	10	800	1	*
S. Farnborough	19·5	+10	NW'N	3	z0	58	85	54	6	5	7	-	7-8	10	1200	0	*
Boscombe Down	20·3	+8	NNW	4	c	58	85	53	8	5	3	-	7-8	9+	1600	0	*
Thorney Island	19·0	+6	W'N	3	c	58	85	55	7	5	-	-	10	10	2500	0	*
Lympne	19·0	+8	NNE	1	z0	55	97	54	6	5	-	-	10	10	500	1	§2
Manston	18·6	+10	N'E	2	c	56	92	53	7	5	-	-	9+	9+	1500	1	*
Shoeburyness	19·2	+14	N'E	2	c	56	92	54	8	5	-	-	9+	9+	1200	1	*
Felixstowe	17·6	+2	N'W	2	c	55	85	52	8	5	-	-	10	10	1400	1	3
Gorleston	18·9	+16	NNW	3	c	54	92	51	7	5	-	-	9+	9+	1600	0	3
Mildenhall	18·8	+8	N	2	c	55	92	53	7	5	-	-	9+	9+	1500	1	*
Cranwell	18·6	+4	W'N	3	m	56	97	56	4	5	-	-	10	10	3000	1	*
Birmingham	20·1	+4	NW	3	z0	55	92	53	5	5	-	-	10	10	450	1	*
Upper Heyford	19·5	+6	NW'N	2	c/d	57	92	55	6	5	-	-	10	10	1000	1	*
Ross-on-Wye	20·4	+6	N	2	b	59	85	55	8	1	-	9	Tr	1	3500	0	*
Hartland Point	21·7	+4	NW	3	c	59	92	57	8	5	4	-	7-8	9	1500	1	3
Bristol	21·0	+6	N	3	bc	61	78	54	8	5	3	-	4-6	7-8	1500	0	*
Portland Bill	20·3	+4	WSW	2	o	60	85	55	8	5	*	-	10	10	4000	1	3
Plymouth	22·1	+6	NW	2	c	61	92	59	7	5	-	-	9+	9+	1200	0	2
The Lizard	22·6	+2	NW	4	c	59	97	59	8	8	4	-	7-8	7-8	2000	0	3
Scilly (St. Mary's)	24·0	+6	NW	4	c	59	92	47	8	5	4	-	4-6	7-8	1200	0	3
Guernsey																	
Pembroke	22·9	+14	N'W	3	c	59	85	55	8	8	6	-	9	9+	2500	0	2
Holyhead (Valley)	21·6	+6	WNW	2	c	59	85	55	8	5	-	-	10	10	2000	1	2
Chester (Sealand)	20·5	+6	WNW	3	c	58	85	54	8	5	-	-	10	10	2000	0	*
Manchester	19·7	+6	W'S	3	c	56	92	54	6	5	-	-	10	10	1500	0	*
Spurn Head	18·5	+6	W'N	3	f3	56	92	55	5	5	2	-	7-8	10	1500	1	3
Catterick	18·5	-2	WNW	2	c	59	85	53	7	5	-	-	10	10	5700	1	*
Tynemouth	18·3	-4	W	2	c	57	85	54	7	5	-	-	7-8	7-8	2800	1	3
St. Abbs Head	16·2	-6	WNW	3	c	61	85	55	8	5	4	-	7-8	9+	3500	0	2
Leuchars	16·2	-6	W	3	c	62	85	57	8	5	8	3	1	7-8	4000	0	*
Renfrew (Abbots I.)	18·9	0	WNW	2	c	59	85	55	7	5	2	-	7-8	10	4500	0	*
Eskdalemuir	18·1	0	E	1	c	55	85	51	8	5	7	-	7-8	7-8	2200	0	*
Point of Ayre	20·1	0	NW'W	3	c	57	97	56	6	5	2	-	7-8	10	200	0	4
Tiree																	
Stornoway	15·4	-6	W	5	d.d0	57	97	57	7	5	2	-	7-8	10	1000	1	2
Dalwhinnie	16·0	-4	SSW	1	c	57	92	54	8	5	-	-	9+	9+	1500	1	*
Aberdeen †	15·2	-12	SW'S	1	c	59	85	55	7	5	7	*	7-8	9+	1900	1	1
Wick	14·2	-6	WNW	2	ir0	60	92	58	9	5	2	-	4-6	10	800	1	*
Sumburgh	11·5	-14	SW	3	df	52	97	56	2	5	-	-	10	10	<150	1	3
Blacksod Point	24·7	0	WSW	1	c/f	58	97	57	6	-	1	-	0	10	*	1	1
Malin Head	21·4	0	W'S	3	c	58	97	57	7	5	-	-	10	10	800	1	2
Aldergrove	21·8	+2	WNW	2	c	59	92	58	7	5	3	-	7-8	9	1000	1	*
Birr Castle	23·7	+2	NW	2	c	61	92	59	8	5	2	-	7-8	10	2500	0	*
Valentia Obsy.	26·5	+4	NW'N	3	z0	59	97	58	6	5	-	-	10	10	220	0	2
Roches Point	24·3	+4	N	4	bc	59	92	57	8	5	4	-	4-6	4-6	1500	0	3

PAST 24 HOURS.

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 19th Hrs. (38)
London (Kew)	70	59	54	-	Tr	6·1
Croydon	70	57	56	-	Tr	6·4
S. Farnborough	69	56	53	-	-	11·7
Boscombe Down	70	54	51	-	-	9·0
Thorney Island	71	56	55	-	-	*
Lympne	65	54		-	1	7·3
Manston	62	54	53	0·1	Tr	5·6
Shoeburyness	68	55	53	-	1	6·6
Felixstowe	63	54		Tr	Tr	
Gorleston	56	53	51	Tr	*	0·2
Mildenhall	64	52	45	*	0·6	6·9
Cranwell	*	51	51	-	1	7·7
Birmingham	65	55	51	-	-	5·7
Upper Heyford	68	53	50	-	0·4	*
Ross-on-Wye	60	54	47	0·2	Tr	7·0
Hartland Point	59	58	56	-	-	7·2
Bristol	70	54	42	-	-	10·6
Portland Bill	64	55	*	-	1	*
Plymouth	66	57	50	-	-	11·2
The Lizard	62	57	*	-	-	7·1
Scilly (St. Mary's)	64	57	*	-	-	4·8
Guernsey						
Pembroke	61	52		-	-	2·5
Holyhead (Valley)	63	57	53	Tr	Tr	*
Chester (Sealand)	64	57	54	Tr	Tr	2·6
Manchester	63	55	55	-	-	*
Spurn Head	60	53		-	0·4	5·4
Catterick	70	50	45	Tr	-	8·3
Tynemouth	60	54	52	0·1	0·4	*
St. Abbs Head	62	54		0·2	*	
Leuchars	70	55	49	0·5	-	8·8
Renfrew (Abbots I.)	68	56	49	Tr	*	5·5
Eskdalemuir	67	49	43	Tr	-	10·0
Point of Ayre	63	55	**	-	-	3·7
Tiree	59			1		
Stornoway	63	56	*	Tr	0·1	1·3
Dalwhinnie	66	53	48	-	0·1	6·6
Aberdeen †	66	53	51	Tr	-	3·4
Wick	61	53	52	1	Tr	*
Sumburgh	54	51	49	Tr	Tr	0·1
Blacksod Point	63	55	*	Tr	-	*
Malin Head	63	56		2	0·3	0·0
Aldergrove	63	57	56	Tr	Tr	0·0
Birr Castle	71	59	58	0·1	-	0·4
Valentia Obsy.	63	57	57	Tr	0·1	1·0
Roches Point	70	57	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 19th July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 20th July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	53	21845	26556	5-	10848	26458	5-	08428	24428	52	52508	23558
115	52	09735	24368							--	67109	20369
203				83	01953	20325	6-	61838	20388			
206	73	02954	26455	13	00961	28311	53	02965	26327	5-	02968	22328
210	87	02954	23356	53	01963	26424	5-	02848	22358	5-	02958	22368
220				52	21726	29358				5-	57418	26358
230	5-	02946	26356	57	01954	24426	5-	02847	28357	02	52518	18168
245	57	02974	14228	8-	01954	14214	5-	02867	04217	57	02864	13157
260	50	21664	22356	14	01863	22313	03	05690	21224	53	02654	23315
278	5-	21618	28598	5-	09608	27528	5-	09618	28528	5-	09408	28468
279	77	22855	22268	44	01864	29224	54	00762	12103	5-	02865	21126
285										5-	02857	30527
288	03	05690	03317	57	21774	05368	57	05693		07	02790	18218
575	57	02837	28427	5-	21837	28457	5-	21728	28358	3-	21737	28258
301	13	02852	28417	5-	02847	25427	50	00843	28413	53	02736	28327
321	13	01853	30315	57	02756	26328	5-	05658	00068	57	08454	00027
299	80	02745	30515	5-	02756	30316	54	01754	30214	53	05655	24118
292	10	01751	30215	57	51757	08158	5-	01754	00024	07	05690	00047
310							23	3665-	51648	--	46109	26349
614	53	05555	28225	73	05665	26326	59	05545	26128	53	05565	26126

III	13h. G.M.T. 19th July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 20th July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	53	02854	28355	5-	21648	24258	5-	02745	28328	5-	02847	30227
334										--	02653	30114
340	5-	02957	30417	5-	02958	29428	7-	02858	30328	5-	02848	29228
136	5-	02845	65525	13	02843	32315	50	01775	30165	58	02843	30227
336												
350	10	01762	28423	07	02790	26325	5-	21648	25368	5-	02638	24258
368	10	01854	25315	44	01863	28324	54	00751	24412	54	01854	28314
379	23	01744	28514	00	01790	28415	50	05643	30463	5-	05628	28328
390	1-	02755	60425	04	02790	26315	5-	05548	00028	23	02743	30256
382	8-	02755		10	02863	30426	50	00752	28262	5-	05668	29328
438	2-	02665	31215	57	01754	00015	5-	03648	22328	52	02636	00028
430	10	01764	30514	13	02761	32327	5-	05683	28228			
400	57	02835	64527	5-	02837	29427	50	00752	30362	57	05615	30328

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 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
Kew	cbcby	bcczoy	cbczocid0
Croydon	cczobcy	bcycm0⊕	cm0id0cm0id0
Greenwich	cby	bc ⊕	cfoc
Camden Square	c	b	*
Kensington	cbc	bcc	*
Hampstead	bcp	o	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·1 Time 14-24h 19th. Min. <0·1 Time 3-13h 19th.

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	70	59	54	-	Tr	6·1	*	*
Croydon	70	57	56	-	Tr	6·4	*	*
Greenwich	70	57	49	-	0·3	5·6	43	81
Westminster	71	59	55	-			66	88
Regents Park	71	57	55	-	-		60	83
Camden Square	71	55	55	-	-	*	*	81
Kensington	70	58	54	Tr	-		58	83
Hampstead	68	55	52	-	Tr		*	90

SECRET

Page 1

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

Tuesday 21st July 1942

No. 29461

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)	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)	20.2	0	WNW	2	Zo	66	75	56	6	5	2	-	7-8	10	1500
	Croydon	20.2	-2	NW'N	3	Zo	68	75	59	6	5	3	-	2-3	9+	2800
	S. Farnborough	20.3	0	W	3	c	67	75	57	7	7	7	-	4-6	10	2000
	Boscombe Down	20.7	-4	NW'W	2	c	71	55	56	8	1	7	-	4-6	7-8	3000
	Thorney Island	20.6	0	WNW	3	c	72	65	57	7	5	5	-	7-8	9	2500
	Lympne	21.0	+6	SW	1	c	62	75	55	8	5	-	-	10	10	4000
	Manston	20.0	0	NW	2	bc	63	85	57	8	1	5	-	1	4-6	2500
2	Shoeburyness	19.9	0	NW	3	c	67	65	56	8	5	3	-	9	9+	2300
	Felixstowe	19.1	+2	S	2	c	62	85	58	8	5	-	-	9	9	4000
	Gorleston	19.7	0	NE'E	2	c	61	65	53	7	5	4	-	7-8	9+	2000
	Mildenhall	19.3	-2	W'S	3	Zo	65	85	58	6	5	2	-	7-8	10	1000
	Cranwell	18.7	-2	W	3	Zo	65	75	58	6	5	-	-	10	10	4500
3	Birmingham	20.4	0	NW	4	Zo	63	75	55	6	5	-	-	10	10	2500
	Upper Heyford	22.0	-4	WNW	3	c	66	65	55	8	5	-	-	9+	9+	7200
4	Ross-on-Wye	20.5	0	NW	3	c	70	65	56	8	5	-	-	9+	9+	4000
5	Hartland Point	23.3	+2	WNW	3	c	64	85	59	8	2	4	-	1	7-8	1000
	Bristol	21.1	+4	W	2	c	72	65	63	8	1	7	-	2-3	9	4000
	Portland Bill	21.7	+12	W	2	c	65	85	62	8	2	-	-	7-8	7-8	4000
	Plymouth	22.6	-2	NW	3	bc	68	85	57	8	1	4	-	4-6	4-6	2500
	The Lizard	23.6	-4	NNW	5	c	66	85	61	8	2	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	25.1	0	NW'N	4	bc	67	75	60	8	5	4	9	Tr	2-3	1200
	Guernsey															
6	Pembroke	23.8	0	NW	3	c	*	*	*	8	8	3	-	4-6	7-8	4000
7	Holyhead (Valley)	22.3	+2	W'N	3	ir0	66	75	59	8	5	3	-	7-8	9	2000
	Chester (Sealand)	21.1	+4	WNW	4	c	62	85	58	8	5	-	-	10	10	1500
8	Manchester	20.3	-2	WNW	4	c	62	85	59	6	2	-	-	10	10	1800
10	Spurn Head	18.5	-2	W'N	3	c	62	85	58	5	5	7	-	7-8	10	2500
	Catterick	18.4	0	WNW	3	c/d	64	85	60	7	5	7	-	7-8	10	2500
	Tynemouth	17.8	-4	W	4	c	65	85	59	6	5	-	-	9	9	2800
11	St. Abbs Head	15.1	-4	W	4	c	65	75	58	7	5	4	-	7-8	9	4500
	Leuchars	15.0	-10	WSW	4	c	72	75	63	8	8	9	3	4-6	9	3500
12	Renfrew (Abbots I.)	15.1	-6	W'S	4	c/pr	63	85	57	8	5	2	-	7-8	10	1800
	Eskdalemuir	17.5	-2	W'S	4	c	62	85	57	8	5	2	-	4-6	10	2400
	Point of Ayre	20.6	-6	WNW	4	c	62	85	58	7	5	2	-	9	10	1500
13A	Tiree	19.7	+4	WNW	3	c	57	92	54	7	5	-	-	9+	9+	1000
13B	Stornoway	16.2	+4	WNW	6	c	57	85	53	8	5	7	-	7-8	9+	2000
	Dalwhinnie	16.0	-6	WSW	2	c	63	65	62	8	8	9	-	4-6	9+	2500
	Aberdeen	13.8	-6	NW'N	3	c	69	75	60	9	8	9	-	4-6	7-8	2600
	Wick	13.8	-2	WNW	6	c	58	85	54	9	5	-	-	10	10	2000
16	Sumburgh	09.8	-4	W	5	f	53	97	53	3	-	-	-	10	10	<150
17	Blacksod Point	25.2	+2	WSW	3	id0	62	97	62	6	-	2	-	10	10	430
18	Malin Head	21.3	-2	W'S	4	o/r	59	97	59	4	5	2	-	7-8	10	1500
	Aldergrove	21.7	-6	W	3	c	64	85	59	7	5	2	-	9	10	1500
19	Birr Castle	24.2	-2	NNW	2	c	68	75	56	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy.	27.5	+4	W	3	c	61	92	55	8	5	-	-	10	10	2500
	Roches Point	25.0	-2	N	4	bc	68	75	53	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 20th 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)	19.9	-6	SW	1	Zo	65	85	60	6	5	2	-	9+	10	2500	1	*
Croydon	20.3	-2	-	0	c	66	85	61	7	5	7	-	4-6	9+	7000	1	*
S. Farnborough	20.1	-2	NW'W	3	c	72	65	57	8	1	7	-	1	9+	4000	0	*
Boscombe Down	20.6	-2	NW'W	3	c	72	65	53	8	7	7	-	1	9	3500	0	*
Thorney Island	20.7	+2	SW	3	c	69	65	58	8	-	3	8	0	9+	-	0	*
Lympne	20.9	+2	S'W	1	Zo	60	97	59	5	5	7	-	7-8	10	4000	1	§2
Manston	19.6	-2	SW	2	ir0	62	97	61	5	5	7	-	9	10	4000	1	*
Shoeburyness	19.9	0	W	2	c	66	75	57	6	5	7	-	7-8	10	3000	1	*
Felixstowe	18.9	-2	W	2	c/d	65	85	60	6	5	2	-	9	10	2500	1	2
Gorleston	18.9	-6	WNW	1	Zo	65	75	58	6	5	-	-	10	10	1300	0	3
Mildenhall	18.6	-2	WSW	2	Zo	66	85	60	6	5	-	-	10	10	5000	1	*
Cranwell	18.5	+4	WNW	5	q/r	63	85	60	6	5	3	-	7-8	9+	3500	1	*
Birmingham	20.6	+2	WNW	3	Zo	66	75	57	6	5	7	-	7-8	9+	2500	1	*
Upper Heyford	20.2	+6	NW'W	4	Zo	66	75	59	6	5	7	-	2-3	10	3000	0	*
Ross-on-Wye	20.8	+4	W'N	3	c/pr	68	75	60	8	-	7	-	Tr	9+	3000	0	*
Hartland Point	23.8	0	NW	3	bc	63	92	60	8	2	4	-	2-3	4-6	2000	0	3
Bristol	21.3	0	W	3	c	73	65	62	8	1	7	9	1	7-8	4000	0	*
Portland Bill	22.1	+2	W	2	c	62	85	59	8	2	-	-	7-8	7-8	4000	1	2
Plymouth	23.2	+2	NW	3	bc	67	75	59	8	5	3	-	2-3	4-6	2000	0	2
The Lizard	24.4	+8	NW'N	4	bc	65	85	60	8	8	6	-	4-6	4-6	2500	0	3
Scilly (St. Mary's)	25.5	+2	WNW	3	bc	64	85	59	8	5	4	-	1	2-3	1800	0	3
Guernsey																	
Pembroke	23.8	0	WNW	3	c	60	92	58	8	8	7	-	4-6	9	3000	0	2
Holyhead (Valley)	22.2	+2	SW	3	c	61	85	57	8	5	7	-	9+	10	2500	0	2
Chester (Sealand)	21.0	0	WNW	4	c	65	85	60	8	5	-	-	10	10	2000	0	*
Manchester	20.4	-2	W'N	4	c/r	63	85	59	6	5	-	-	10	10	800	0	*
Spurn Head	17.6	-2	W	3	c	65	85	61	6	5	7	1	4-6	7-8	4000	0	2
Catterick	17.5	0	WNW	5	c	70	75	57	8	-	9	2	0	9	-	0	*
Tynemouth	16.7	+4	N'E	5	c	67	75	59	6	8	-	-	7-8	7-8	2500	1	3
St. Abbs Head	14.6	0	W	4	c	66	65	55	7	4	4	-	4-6	7-8	3500	0	3
Leuchars	15.7	+10	WNW	4	c	67	65	65	8	1	7	2	Tr	7-8	3500	0	*
Renfrew (Abbots I.)	18.6	+2	WNW	3	c	62	75	52	8	5	7	-	4-6	9	1800	0	*
Eskdalemuir	17.7	+2	WNW	3	bc	61	75	52	8	7	7	1	1	4-6	2500	0	*
Point of Ayre	20.7	+2	NNW	4	c	61	85	56	7	5	4	2	4-6	9	2500	0	4
Tiree	20.3	+6	WNW	2	o	56	92	54	7	5	-	-	10	10	800	1	3
Stornoway	17.2	+4	WNW	6	c	58	85	53	8	5	7	-	7-8	9+	2500	1	3
Dalwhinnie	16.8	+6	WSW	2	bc	58	75	49	8	8	-	-	4-6	4-6	2500	0	*
Aberdeen	15.4	+4	NNW	3	c	63	65	60	9	4	9	-	4-6	7-8	2300	0	2
Wick	14.8	+6	WNW	6	c	56	85	50	8	5	-	-	9+	9+	1200	1	*
Sumburgh	09.4	+2	W'N	7	c	53	85	50	7	5	-	-	9+	9+	1000	0	5
Blacksod Point	25.1	+2	W'S	3	f	59	97	59	3	-	1	-	0	10	-	1	3
Malin Head	22.1	+2	W'N	4	c	57	92	50	7	5	2	-	7-8	10	800	1	2
Aldergrove	22.1	+6	NW	2	c	62	85	58	8	5	2	-	9	10	1500	1	*
Birr Castle	24.1	-2	WNW	3	c	70	75	62	8	8	2	-	7-8	10	1500	1	*
Valentia Obsy.	27.5	-2	W	3	df	60	97	60	2	5	-	-	10	10	-	0	2
Roches Point	25.1	0	N	4	c/pr	66	85	61	8	8	4	-	4-6	7-8	2500	0	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 20th (39)	Weather 13h.—18h. 20th (40)	Weather 18h. 20th — 1h. 21st (41)	Weather 1h.—7h. 21st (42)
London (Kew)	cm0 cz0	cz0cm0	cir.c	cm.c
Croydon	cm0	cz0c	cm.ir.c	cm.c
S. Farnborough	cm0c	c	cm.id.cm.	cm.cbec
Boscombe Down	cbc	cbccy	cbec	cbec
Thorney Island	cy	cyc	ir.pec	bec
Lympne	om0bc	cm0pf0	cmor.r.	cm.bcbm.
Manston	c	bccm0ir0	cir.ror.m.	cm.bm.
Shoeburyness	c	cir0z0c		cir.bbc
Felixstowe	c	cmirrrid0	cir.m.cm.	cbcm.
Gorleston	cbc	cpf0cm0	oid.cm.	cz.bcb
Mildenhall	ccm0	cm	cm.bm.w	bm.wb
Cranwell	cm0	cr0c	cir.bm.	bm.
Birmingham	obcz0	cz	cpr.	co
Upper Heyford	cm0	cz0	cir.bcm.	becidm.
Ross-on-Wye	bcc	cpf0	c	c
Hartland Point	cbc	cbc	ir.c	c
Bristol	bcc	cbcybc	cir.m.b	bm.cm.
Portland Bill	cc	cc	cbc	c
Plymouth	cpf0bc	cbc	cir.cbc	bcir.c
The Lizard	c	cbc	bccw	cbccw
Scilly (St. Mary's)	cbc	bc	bccw	cfcp.c
Guernsey				
Pembroke	c	c	bcc	c
Holyhead (Valley)	cr0	cir0c	ccid.	c
Chester (Sealand)	md0m0c	c	c	d.d.m.c
Manchester	opr0c	cm0ir	cm0	cm0
Spurn Head	cm	cm	cm	bc
Catterick	occid0mc	cir0c	cbcb	b
Tynemouth	c	c	cbc	bc
St. Abbs Head	c	cbcc	cbcb	bbc
Leuchars	c	c	cbcb	bc
Renfrew (Abbots I.)	cpr0c	c	c	c
Eskdalemuir	cid0c	cbc	bc	bcc
Point of Ayre	cm0	c	cbcc	c
Tiree	m0id0	did0	bcc	odrr
Stornoway	cpr0	c	c	cr.r.
Dalwhinnie	c	cbc		bco
Aberdeen	cid0c	bcc	cbc	c
Wick	ccid0c	cid0c	d.cd.d.id.	cbccir.bc
Sumburgh	ofd0dmf	pf0cd0mc	cir0	cid.m.prc
Blacksod Point	d	f	d	c
Malin Head	d	d	d	r
Aldergrove	c	c	cid.	cid.m.d.dcd.
Birr Castle	d	bc		c
Valentia Obsy.	c	d	f	f
Roches Point	c	px.	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 21st July

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light or moderate West-northwest wind; mainly cloudy; occasional breaks; close.
4 W. Midlands, 5 S.W. England, 6 South Wales, 7 North Wales, 8 N.W. England	Light or moderate West-northwest; mainly cloudy, local drizzle; close.
9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	Moderate or fresh West wind; cloudy, bright intervals; slight local rain at first; rather warm.
12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Moderate or fresh West to Northwest wind; strong at times; cloudy; occasional rain; average temperature.
16 Orkneys and Shetlands, 17 N.W. Ireland	As 12-15.
18 N.E. Ireland, 19 S.E. Ireland, 20 S.W. Ireland	As 6-8

GENERAL INFERENCE

A large anticyclone is centred to southwest of the British Isles. Feeble troughs of low pressure are moving south over England and Ireland and a more active trough is moving slowly south in the Shetland area. There will be much low cloud with rain or drizzle in North Scotland. Elsewhere, weather will be mainly fair, but some low cloud, fog patches and local drizzle are likely in Western districts. There will be bright periods in the East and Midlands. Day temperature will rise to about the seasonal average in the South and East, but it will be rather cool in the West and North.

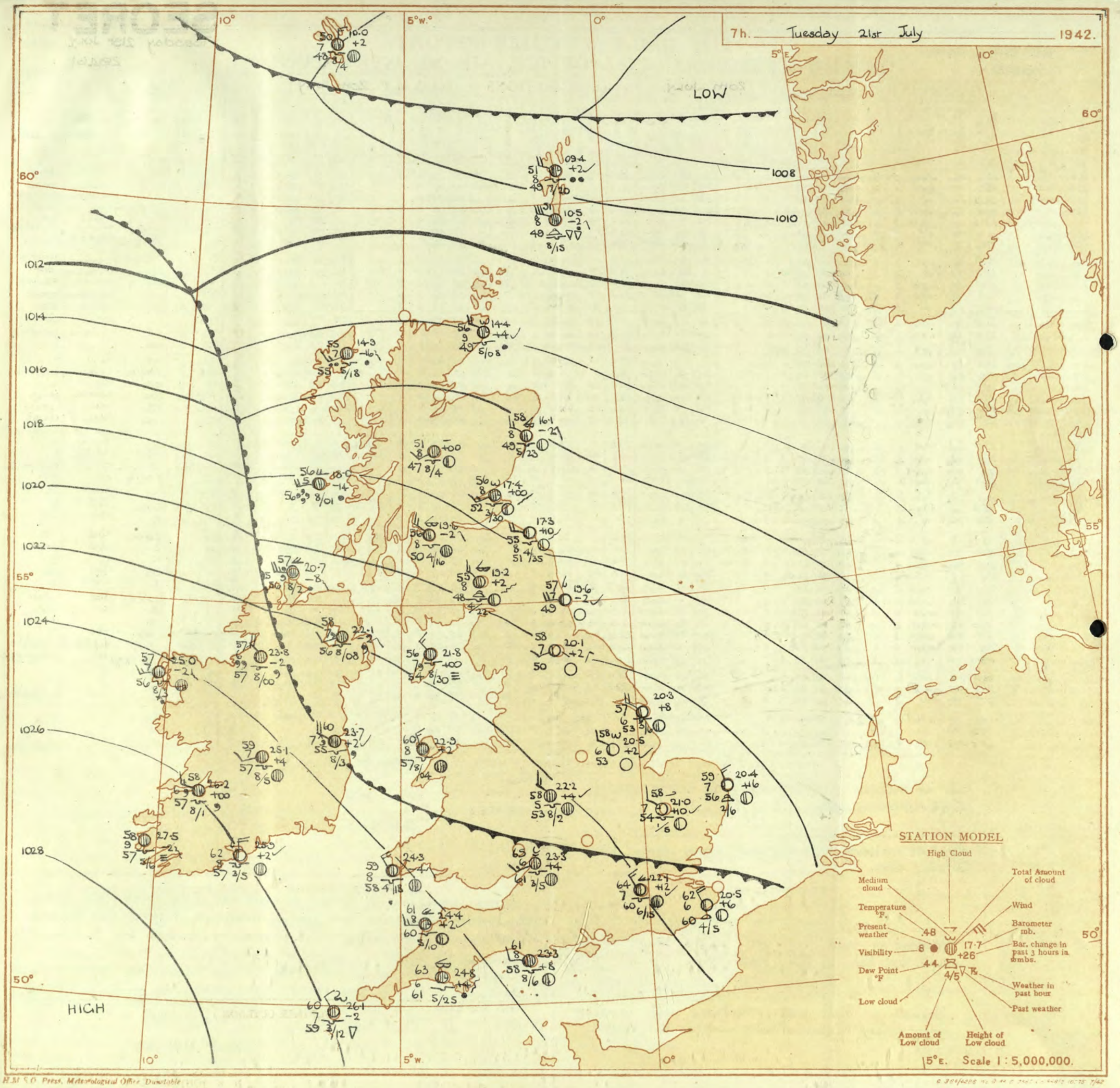
FURTHER OUTLOOK

Little change in general conditions.

Forecasts issued at 1030.

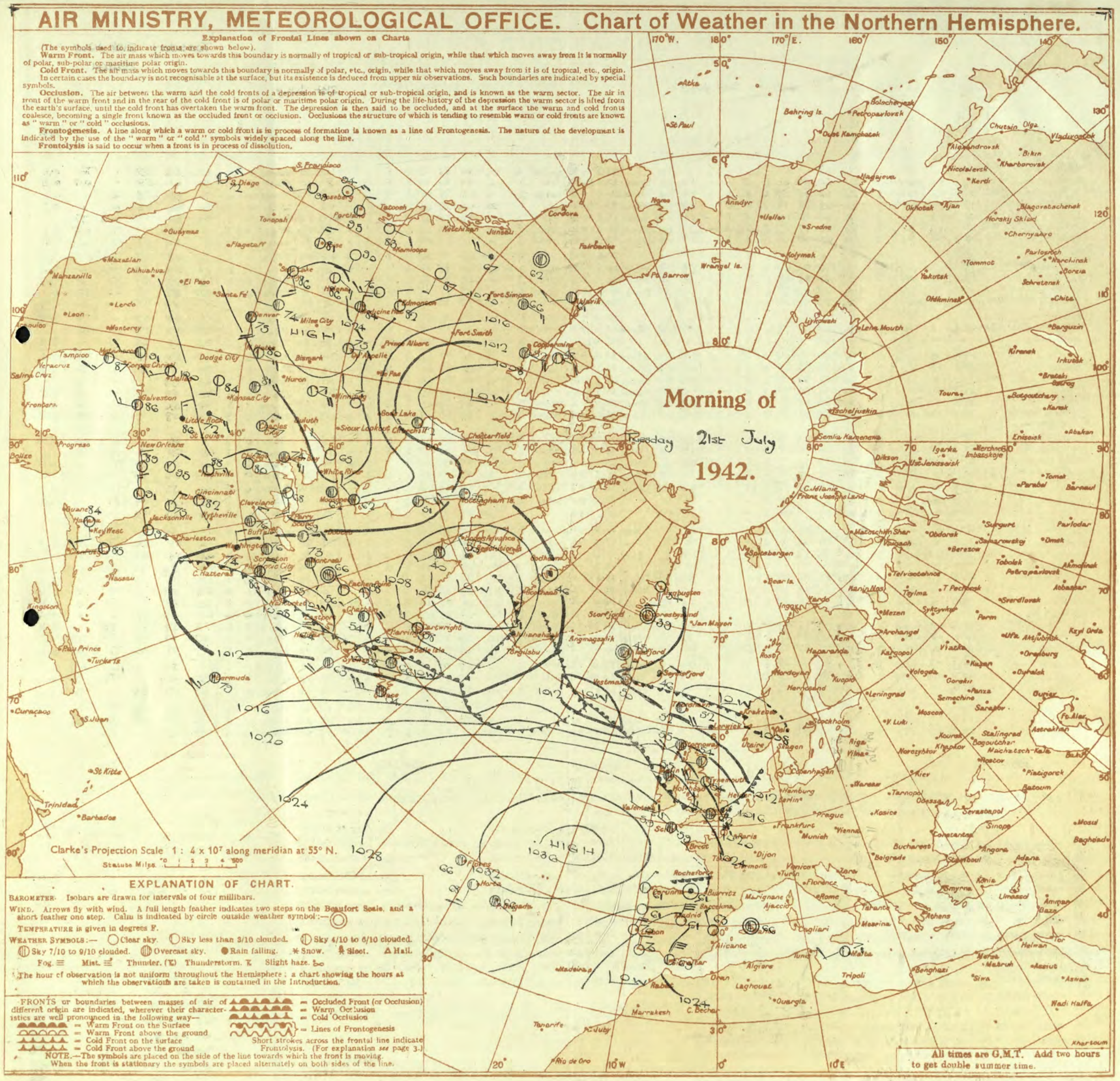
N. K. JOHNSON, D.Sc., A.R.C.S., Director.

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office 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.

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.

BRITISH SECTION

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

Tuesday 21st July 1942

No. 29461

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)	°F. Dew Point (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	*	*	*	*	*	63	*	*	*	*	*	*	*	*	*
	Croydon	290	20·9	+2	NW'W	3	c	62	92	60	6	5	-	-	4-6	10	3000
	S. Farnborough	226	21·3	+2	W'N	3	zo	62	85	59	6	5	2	-	4-6	7-8	3000
	Boscombe Down	417	22·3	+4	W'N	3	c	62	85	58	7	5	4	-	7-8	7-8	4500
	Thorney Island	10	21·4	+2	NW	3	c	64	85	60	7	5	3	-	2-3	7-8	4000
	Lympne	283	20·7	-2	W	2	c/r	61	97	59	5	5	2	-	9	10	4000
	Manston	154	19·9	+2	N	1	c/r	62	97	61	5	6	2	-	7-8	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	19·0	-2	W'N	3	zo	62	92	60	6	5	-	-	7-8	7-8	2400
	Gorleston	5	18·4	-2	NW	2	zo	61	85	58	5	5	-	-	10	10	800
	Mildenhall	15	19·4	0	W'N	3	zo	58	97	57	6	5	-	-	1	1	1500
	Cranwell	203	19·5	+8	NW'W	3	zo	57	85	54	6	-	7	-	0	1	-
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	20·6	-2	NW	3	zo	63	85	58	6	5	-	*	7-8	7-8	2200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	24·4	0	WSW	2	c	62	97	60	8	5	-	-	7-8	9+	2500
	Bristol	209	23·1	-2	W'S	4	zo	61	92	59	6	5	-	-	2-3	2-3	2500
	Portland Bill	32	23·1	0	W	2	bc	59	85	55	8	5	-	-	4-6	4-6	4000
	Plymouth	82	24·5	+2	WNW	1	bc	61	92	59	7	5	-	-	4-6	4-6	2000
	The Lizard	240	25·8	+4	WNW	1	c	58	97	58	8	8	6	-	7-8	7-8	1500
	Scilly (St.Mary's)	163	26·0	-2	NW'W	3	c	59	97	58	8	5	4	-	4-6	7-8	1200
	Guernsey	175															
6	Pembroke	142	24·7	+4	NW'W	4	c	60	92	58	8	8	-	-	7-8	7-8	4000
7	Holyhead (Valley)	32	22·9	+2	NW	3	c/d	61	92	59	7	5	-	-	10	10	1200
	Chester (Sealand)	16	21·7	+8	NNW	2	d.d.	58	92	57	6	5	-	-	10	10	600
8	Manchester	235	21·4	+2	W'N	3	zo	57	92	55	5	5	-	-	10	10	1200
10	Spurn Head	29	18·9	+10	NW	3	c	58	85	55	5	5	2	-	4-6	10	2500
	Catterick	175	19·9	+6	-	0	b	55	85	50	7	-	-	-	0	0	-
	Tynemouth	108	19·4	+6	WNW	4	bc	54	92	52	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	16·6	0	WNW	4	b	56	85	50	7	5	1	-	1	1	4000
	Leuchars	36	11·7	0	WNW	5	b	54	92	51	8	5	-	-	Tr	Tr	3500
12	Renfrew (Abbots I.)	19	19·9	+2	W'N	3	c	56	85	51	7	5	2	-	7-8	9	1800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	21·8	+2	NW'N	4	c	56	92	54	7	5	-	-	9+	9+	3000
13A	Tiree	22	20·8	0	NW'W	2	c	54	85	50	8	5	-	-	7-8	9	2500
13B	Stornoway	80	17·0	-6	WSW	4	c	55	92	53	7	5	7	-	7-8	10	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	16·6	+4	WNW	2	bc	54	85	49	9	5	-	1	4-6	4-6	3000
	Wick	114	15·1	-8	WNW	5	c/d	53	92	51	8	5	-	-	9+	9+	1500
16	Sumburgh	19	10·6	0	WNW	7	iro	52	85	47	6	5	2	-	7-8	10	1000
17	Blacksod Point	18	25·8	-2	W'N	5	d	57	97	57	5	-	2	-	10	10	800
18	Malin Head	84	22·5	+2	W'N	2	c	55	92	53	7	5	2	-	7-8	10	800
	Aldergrove	268	23·5	0	W'S	2	ido	58	92	56	6	5	-	-	10	10	800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	28·1	-2	NW'W	2	f	59	97	59	3	5	-	-	10	10	<150
	Roches Point	22	26·0	+4	N	4	bc	59	92	57	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 21st 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)	21·8	+8	NW'N	2	zo	65	85	59	6	5	-	-	10	10	2500	1	*
Croydon	22·1	+12	NW	3	c	64	86	60	7	5	2	-	9	10	1500	1	*
S. Farnborough	22·0	+6	WNW	2	c	63	85	59	8	5	7	-	7-8	10	1200	0	*
Boscombe Down	22·7	+6			zo	63	92	60	6	5	3	-	4-6	9	2500	0	*
Thorney Island	22·1	+6	W	2	c	66	85	61	7	5	3	-	2-3	7-8	4000	0	*
Lympne	20·5	+6	NW	4	zo	62	92	60	6	1	-	1	4-6	4-6	2500	1	§2
Manston	20·9	+14	NNW	3	zo	61	92	58	6	5	4	1	Tr	1	600	1	*
Shoeburyness	21·5	+18	NW	2	bc	63	75	56	7	7	4	9	4-6	4-6	2500	1	*
Felixstowe	20·5	+2	NW	2	zo	60	85	53	6	-	-	*	0	1	*	1	2
Gorleston	20·4	+16	NNW	3	b	59	85	56	7	2	-	-	1	1	4000	0	2
Mildenhall	21·0	+10	NW	2	b	58	85	54	7	5	4	1	Tr	1	2500	1	*
Cranwell	20·5	+2	W'N	2	zo	58	85	53	6	-	3	2	0	2-3	-	0	*
Birmingham	22·2	+4	NW	3	zo	58	85	54	5	5	-	-	10	10	450	1	*
Upper Heyford	21·6	+6	WNW	4	zo	60	92	58	6	5	-	-	10	10	900	0	*
Ross-on-Wye	22·0	0	NW	3	c	66	85	60	8	5	-	9	9+	9+	2500	0	*
Hartland Point	24·4	+2	W	3	c	61	97	60	8	5	2	-	7-8	9+	1000	0	3
Bristol	23·3	+4	W'S	3	c	65	85	61	6	5	9	-	2-3	7-8	2500	0	*
Portland Bill	23·3	+8	W	2	c	61	85	58	8	5	-	-	10	10	4000	1	2
Plymouth	24·8	+4	-	0	zo	63	92	61	6	5	7	-	7-8	9	2500	0	2
The Lizard	24·9	-2	NNW	2	c	61	97	61	8	8	6	-	7-8	7-8	2000	1	3
Scilly (St.Mary's)	26·1	+2	NW'W	2	c	60	97	59	7	5	3	9	2-3	7-8	1200	0	3
Guernsey																	
Pembroke	24·3	-4	NW'W	4	c	59	97	58	8	5	3	-	4-6	9	1800	0	2
Holyhead (Valley)	22·9	+2	NW'N	3	c	60	92	57	8	5	-	-	10	10	400	0	2
Chester (Sealand)	21·9	+10	WNW	3	d.d.	58	97	57	5	-	2	-	10	10	600	1	*
Manchester	21·9	+6	NW	2	zo	57	92	54	6	5	3	-	7-8	9	1800	0	*
Spurn Head	20·3	+8	WNW	4	bc	57	85	53	6	5	6	-	2-3	4-6	4000	0	3
Catterick	20·1	+2	WSW	2	b	58	75	50	7	-	4	9	0	1	-	0	*
Tynemouth	19·6	+2	W	4	bc	57	75	49	7	-	4	-	0	2-3	-	1	3
St. Abbs Head	17·3	+10	W	4	bc	55	85	51	8	5	4	-	4-6	4-6	3500	0	3
Leuchars	17·4	0	WSW	3	c	56	85	52	8	5	3	8	2-3	9+	3000	0	*
Renfrew (Abbots I.)	19·6	-2	WNW	3	c	56	85	50	8	5	7	-	4-6	9	1600	0	*
Eskdalemuir	19·2	+2	NW'W	3	c	55	75	48	8	8	7	-	4-6	7-8	2200	0	*
Point of Ayre	21·8	0	NW'W	3	ido	56	92	54	7	5	-	-	10	10	3000	0	3
Tiree	18·0	-14	WSW	4	DD	56	97	56	5	-	2	-	10	10	100	1	4
Stornoway	14·9	-16	WSW	3	rro	55	97	55	7	5	2	-	7-8	10	1800	1	2
Dalwhinnie	18·7	0	SW	2	o	51	85	47	8	5	-	-	10	10	1500	0	*
Aberdeen †	16·1	-2	WNW	3	c	58	75	49	8	5	7	-	7-8	9+	2300	1	2
Wick	14·4	+4	NW'W	4	c	56	75	49	9	5	3	-	7-8	9	800	1	*
Sumburgh	10·5	-2	W'N	6	c/pr	51	92	49	8	8	-	-	10	10	1500	1	5
Blacksod Point	25·0	-2	WSW	3	c	57	97	57	7	5	-	-	10	10	800	1	2
Malin Head	20·7	-8	W	5	dr	57	97	57	5	-	2	-	10	10	450	1	3
Aldergrove	22·1	-2	WSW	2	ido	58	92	56	7	5	-	-	10	10	800	1	*
Birr Castle	25·1	+4	WSW	1	c	59	92	57	7	5	-	-	10	10	2500	0	*
Valentia Obsy.	27·5	-2	-	0	c	58	97	58	9	5	-	-	7-8	7-8	4000	0	2
Roches Point	25·9	+2	N	4	bc	62	85	58	8	5	4	-	2-3	4-6	2500	0	3

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 20th Hrs. (38)
London (Kew)	67	62	59	-	Tr	0·2
Croydon	70	61	59	-	0·1	0·8
S. Farnborough	71	61	58	-	-	0·1
Boscombe Down	74	60	55	-	·	4·7
Thorney Island	74	60	58	-	Tr	*
Lympne	64	59		Tr	0·5	3·8
Manston	65	60	58	Tr	0·1	3·8
Shoeburyness	71	57	53	Tr	0·5	0·9
Felixstowe	68	56	54	Tr	Tr	6·6
Gorleston	65	57	54	Tr	Tr	3·3
Mildenhall	67	55	45	Tr	Tr	0·1
Cranwell	*	50	45	0·1	0·1	0·0
Birmingham	67	57	57	-	Tr	0·8
Upper Heyford	72	59	58	-	Tr	*
Ross-on-Wye	74	61	56	Tr	-	5·2
Hartland Point	65	59	58	-	Tr	3·5
Bristol	75	61	57	-	Tr	7·7
Portland Bill	66	58	*	-	-	*
Plymouth	70	59	55	-	Tr	7·5
The Lizard	68	56	*	-	-	0·6
Scilly (St.Mary's)	68	58	*	-	Tr	9·1
Guernsey						
Pembroke	*	56	*	-	0·1	5·2
Holyhead (Valley)	68	59	58	Tr	Tr	*
Chester (Sealand)	66	56	55	Tr	1	0·1
Manchester	65	56	55	-	-	*
Spurn Head	66	55	*	Tr	-	0·0
Catterick	70	51	44	Tr	-	2·2
Tynemouth	68	53	49	-	-	*
St. Abbs Head	68	53	*	-	-	*
Leuchars	72	51	46	Tr	-	6·4
Renfrew (Abbots I.)	64	54	48	Tr	-	1·7
Eskdalemuir	64	50	45	Tr	-	2·5
Point of Ayre	64	55	*	Tr	-	1·1
Tiree	58	55	*	Tr	2	0·0
Stornoway	60	53	*	Tr	2	1·2
Dalwhinnie	65	48	41	-	-	4·2
Aberdeen †	73	54	46	Tr	-	3·8
Wick	62	51	49	Tr	Tr	*
Sumburgh	55	51	49	Tr	10	0·0
Blacksod Point	63	55	*	0·6	0·1	*
Malin Head	59	54		Tr	2	0·0
Aldergrove	67	57	56	-	Tr	0·4
Birr Castle	71	58	58	Tr	-	0·8
Valentia Obsy.	64	56	55	Tr	0·1	1·1
Roches Point	69	59	*	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	$C_L C_M$ (13h)	$wwVhN_h$ (13h)	DDFWN (13h)	$C_L C_M$ (18h)	$wwVhN_h$ (18h)	DDFWN (18h)	$C_L C_M$ (01h)	$wwVhN_h$ (01h)	DDFWN (01h)	$C_L C_M$ (07h)	$wwVhN_h$ (07h)	DDFWN (07h)
109	5-	10637	57657	5-	51638	58658	5-	52528	24458	53	10537	58457
115				52	02834	24467	52	81834	24487	52	09735	20488
203												
206	87	02966	24427	80	00963	23513	5-	01864	24314	57	02964	24426
210	77	02965	57426	83	01953	59523	8-	02848	56428	57	61855	55527
220	52	03735	27358	52	51636	29228				5-	66628	24368
230	54	02855	28325	5-	02858	20228	5-	02848	24228	52	61647	18358
245	59	02963	24427	53	02863	58415	54	00961	25212	57	02965	23317
260	77	02754	*	57	01890	59524	50	05662	22202	53	01764	22315
278	51	09827	27458	5-	02735	62468	5-	02728	26328	5-	52628	28358
279	51	61844	22358	79	01353	26266	5-	01754	26314	53	02854	28215
285	5-	05630	26528									
288	52	53444	21358	57	02851	24327	04	00890	20212	00	00890	20201
575	5-	03330	26258	5-	51408	26258	5-	05628	28458	5-	52608	61458
301	57	02727	29428	57	02746	26467	50	02754	28428	57	02845	28327
321	51	05666	30228	57	62654	24468	04	01690	28363	04	05690	26315
299	5-	05667	26227	5-	02765	24205	5-	01754	30314	50	01794	28114
292	57	02764	00020	57	02754	17366	50	00871	28311	14	00761	24113
310	--	01635	26315							--	02628	26448
614	53	05555	26227	51	62655	26208	55	05653	26424	54	05643	28224

13h. G.M.T. 20th July 18h. G.M.T. — 01h. G.M.T. 21st July 07h. G.M.T.

III	$C_L C_M$ (13h)	$wwVhN_h$ (13h)	DDFWN (13h)	$C_L C_M$ (18h)	$wwVhN_h$ (18h)	DDFWN (18h)	$C_L C_M$ (01h)	$wwVhN_h$ (01h)	DDFWN (01h)	$C_L C_M$ (07h)	$wwVhN_h$ (07h)	DDFWN (07h)
338	53	02744	32325	5-	02848	24228	52	02755	28228	53	02745	29357
334	--	03645	30128							--	03447	20228
340	5-	02758	30428	5-	02745	29268				5-	21638	31258
136	57	22653	24368	52	51648	20258	50	05664	25364	50	05654	24224
336	54	02755	28416	57	02756	24428				50	01755	28415
350	57	05646	23228	57	05655	24228				57	05645	26327
368	84	01954	24414	43	02868	24417				5-	02647	24227
379	83	02844	26325	57	02867	30827	50	01754	28464	5-	05508	02228
390	73	05645	26227	57	05675	26368	57	05554	26367	14	02745	27425
382				57	02864	30327	53	05653	25224	53	10847	24327
438	5-	05647	16217	87	02654	26277	5-	47228	22388	5-	03738	24228
430	3-	05294		57	02775	21327	07	02700	32367	53	02763	26226
409	5-	02725	29325	53	01858	28814	5-	02755	28225	53	05615	30227

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 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
Kew	cmo czo	czo cmo	cio cmo
Croydon	cmo	czo c	cmo irg
Greenwich			
Camden Square	c	c	*
Kensington	c	c	*
Hampstead	o	bc	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·1 Time 11–14h 20th; Min. <0·1 Time 0–4h 21st.

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	62	59	-	Tr	0·2	*	*
Croydon	70	61	59	-	0·1	0·8	*	*
Greenwich	69	63	58	-	Tr	0·1	69	76
Westminster	69	61	60	-			79	87
Regents Park	68	61	60	-	-		70	79
Camden Square	69	61	57	-	-	*	*	73
Kensington	69	63	58	-	-		73	82
Hampstead	67	60	58	-	-		*	85

SECRET

Page 1 **BRITISH SECTION**

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

Wednesday 22nd July 1942

No. 29462

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)	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)	21·8	-2	NW	2	c	71	65	56	7	8	-	-	7-8	7-8	4000
	Croydon	21·7	-6	NW	3	bc	73	65	61	7	2	6	-	7-8	7-8	2400
	S. Farnborough	21·7	-2	NW'W	3	c/pr	73	65	60	8	8	7	-	7-8	9+	3000
	Boscombe Down	22·3	-2	WNW	4	c	71	65	55	7	8	6	-	7-8	9	5600
	Thorney Island	22·0	-2	NW	2	c	74	65	61	8	3	7	-	7-8	9+	2500
	Lympne	21·8	+6	WNW	2	bc	73	65	62	7	2	6	-	4-6	7-8	3200
	Manston	22·0	+2	WNW	2	z0	71	75	62	6	2	3	-	2-3	2-3	2800
2	Shoeburyness	20·9	-12	W'N	3	c	75	55	56	8	1	4	1	7-8	7-8	2900
	Felixstowe	20·8	+2	W	3	c	74	65	53	7	1	7	-	Tr	4-6	2500
	Gorleston	21·2	0	S'E	3	bc	60	75	52	7	2	-	1	4-6	4-6	3000
	Mildenhall	20·3	-6	W'N	3	bc	73	55	56	8	1	4	1	4-6	4-6	3000
	Cranwell	19·7	-2	W'N	4	z0	72	55	55	6	5	3	-	1	2-3	3000
3	Birmingham	21·6	-4	WNW	3	c	69	65	54	8	8	7	-	9	9+	2500
	Upper Heyford	21·4	-6	NW'W	4	bc	72	55	56	8	1	6	2	4-6	7-8	2800
4	Ross-on-Wye	21·9	0	W'N	3	c	72	65	60	9	7	4	1	7-8	9	3500
5	Hartland Point	25·2	+4	W	2	c	62	92	60	8	5	4	-	4-6	10	1000
	Bristol	23·3	0	W'N	4	c	71	75	62	8	5	7	-	1	9+	4000
	Portland Bill	23·8	+4	W	2	bc	64	85	61	8	5	-	-	4-6	4-6	4000
	Plymouth	24·9	+2	NW	3	ir0	69	85	63	7	5	7	-	9	9+	1800
	The Lizard	25·5	+2	WNW	2	c	66	85	61	8	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	26·8	+2	NW	3	c	67	75	60	7	5	-	-	10	10	1000
	Guernsey															
6	Pembroke	23·6	-12	W'S	6	bc	61	85	58	8	2	4	3	2-3	4-6	2000
7	Holyhead (Valley)	22·7	-4	SSW	3	b	65	75	58	9	5	4	-	1	2-3	1500
	Chester (Sealand)	22·2	-2	NW'W	4	c	62	85	59	7	5	-	-	10	10	1600
8	Manchester	21·7	-4	W	3	z0	60	85	55	6	5	-	-	10	10	1300
10	Spurn Head	19·1	-8	S	2	z0	68	65	56	6	-	3	1	0	2-3	-
	Catterick	18·4	-10	W	4	c	72	55	56	8	5	9	9	4-6	7-8	3200
	Tynemouth	19·1	-4	W	3	c	66	75	56	7	8	-	-	9+	9+	2300
11	St. Abbs Head	16·0	-10	W	4	c	63	85	60	7	5	4	-	7-8	9+	3000
	Leuchars	14·6	-20	W	4	c/t	66	75	58	8	5	7	8	7-8	9+	2500
12	Renfrew (Abbots I.)	17·3	-14	WSW	4	id0	59	85	56	6	5	2	-	7-8	10	1200
	Eskdalemuir	18·1	-4	WSW	4	c	61	75	54	8	5	-	-	9	9	2400
	Point of Ayre	20·6	-8	W'N	3	c	71	55	66	8	4	7	3	2-3	9+	4000
13A	Tiree	16·4	-10	W	3	dd	58	97	57	5	-	2	-	10	10	100
13B	Stornoway	12·4	-10	WSW	4	tt	58	97	57	6	5	-	-	10	10	900
15	Dalwhinnie	14·8	-10	SW	3	o	63	75	55	8	5	-	-	10	10	1500
	Aberdeen	13·4	-16	SW	1	c	68	65	64	8	7	9	-	4-6	7-8	2400
	Wick	12·8	-10	W'N	2	c	60	85	53	9	5	-	-	9+	9+	1500
16	Sumburgh	10·5	0	W'N	5	bc	54	85	50	8	7	3	-	4-6	4-6	1500
17	Blacksod Point	23·6	-6	WSW	3	o	60	97	60	7	-	1	-	0	10	·
18	Malin Head	19·4	-6	W'S	5	c/d	59	92	54	7	5	2	-	7-8	10	800
	Aldergrove	21·0	-6	W	3	c	63	85	57	8	5	7	-	9	9+	1500
19	Birr Castle	24·0	-8	W	3	c	68	75	53	8	4	-	-	7-8	9	2500
20	Valentia Obsy.	27·5	-2	W	3	c	61	85	53	8	5	-	-	9+	9+	4000
	Roches Point	25·2	-8	N	4	bc	71	75	62	9	1	-	5	4-6	4-6	4000

OBSERVATIONS at 18h. G.M.T. 21st 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)	20·5	-2	WNW	3	c	73	55	57	8	8	3	-	7-8	7-8	2500	1	*
Croydon	20·5	-4	NW'W	3	c	73	65	61	8	8	4	1	7-8	7-8	4100	1	*
S. Farnborough	20·7	-2	WNW	3	c	73	55	58	9	8	7	-	4-6	9+	4500	0	*
Boscombe Down	21·4	-4	WNW	4	bc	73	55	59	8	2	6	-	4-6	4-6	3500	0	*
Thorney Island	21·2	-6	NW'W	2	c	75	65	61	9	4	4	-	7-8	7-8	4000	0	*
Lympne	20·4	-8	WNW	2	bc	74	65	59	7	2	6	-	2-3	2-3	4500	1	3
Manston	19·7	-12	-	0	z0	73	75	53	6	-	-	-	0	0	-	1	*
Shoeburyness	19·8	-6	WNW	2	b	74	55	57	7	1	-	-	1	1	3300	0	*
Felixstowe	19·4	-2	W	3	bc	74	55	58	8	1	4	-	1	2-3	2500	1	3
Gorleston	19·5	-6	NW'W	2	z0	67	75	60	6	2	3	-	2-3	2-3	3000	0	3
Mildenhall	19·4	-6	WNW	3	b	71	55	58	7	1	-	1	1	2-3	3000	1	*
Cranwell	19·0	-2	WNW	5	z0	67	75	58	6	1	4	9	1	2-3	3000	0	*
Birmingham	20·5	-10	W	3	bc	69	75	60	8	8	7	1	4-6	7-8	2500	1	*
Upper Heyford	20·3	-6	W'S	3	bc	71	65	59	9	4	6	-	4-6	7-8	3500	0	*
Ross-on-Wye	21·5	0	WNW	3	c	70	65	55	9	4	-	2	4-6	7-8	3500	0	*
Hartland Point	23·9	-6	WSW	3	bc	63	92	61	8	2	4	6	1	4-6	2500	0	3
Bristol	22·5	0	W'S	6	bc	68	75	61	8	4	3	6	Tr	4-6	4000	0	*
Portland Bill	22·1	-6	W	3	bc	64	85	60	8	2	-	-	4-6	4-6	4000	1	2
Plymouth	24·1	-4	NW	3	bc	69	75	57	8	1	6	-	1	2-3	2000	0	2
The Lizard	25·1	-4	-	0	bc	66	85	61	8	4	-	-	2-3	2-3	2500	0	2
Scilly (St. Mary's)	26·2	-2	NW'W	4	bc	68	75	60	8	5	4	-	1	2-3	1000	0	3
Guernsey																	
Pembroke	23·6	0	W	5	bc	61	85	58	8	2	4	3	2-3	4-6	2000	0	2
Holyhead (Valley)	21·2	-10	SW	3	c	61	85	56	9	8	-	-	9+	9+	3500	0	2
Chester (Sealand)	18·8	-8	NW'W	3	c	67	97	67	8	7	-	6	9+	9+	2000	4	*
Manchester	20·1	-8	W	4	c	64	75	54	7	2	3	-	7-8	9+	1800	0	*
Spurn Head	18·2	-4	W'N	5	z0	66	75	57	6	7	7	1	4-6	9	2500	0	3
Catterick	17·7	-8	W	3	c	65	75	55	8	5	7	2	4-6	9	3000	0	*
Tynemouth	17·0	-12	W	4	c	66	75	57	7	8	3	-	7-8	9	2300	1	3
St. Abbs Head	13·2	-6	W	4	c	62	97	62	8	5	4	-	7-8	10	3000	0	4
Leuchars	12·5	-12	W	4	c	65	75	58	8	8	9	-	2-3	10	2500	0	*
Renfrew (Abbots I.)	15·2	-16	W'S	4	id0	59	85	56	7	5	-	-	10	10	800	1	*
Eskdalemuir	16·3	-6	W	3	c/d	59	92	56	8	5	-	-	10	10	1200	1	*
Point of Ayre	18·9	-4	W'N	4	c	62	92	59	8	8	7	6	Tr	10	2000	1	3
Tiree	13·4	-16	W'S	5	dd	57	97	56	6	-	2	-	10	10	400	1	5
Stornoway	09·1	-18	W	4	tt	57	97	57	7	5	2	-	7-8	10	1000	1	2
Dalwhinnie	12·0	-10	SW	3	pt	57	85	53	7	5	-	-	10	10	1500	1	*
Aberdeen	11·0	-10	-	0	ir0	61	97	61	6	7	2	-	4-6	10	1800	1	1
Wick	10·0	-18	ESE	1	tf	53	97	53	3	-	-	-	10	10	<150	1	*
Sumburgh	09·0	-6	WSW	3	c	52	92	51	9	5	7	-	4-6	9	2000	0	3
Blacksod Point	21·3	-18	SW	4	c/d	59	97	59	7	-	1	-	0	10	-	1	3
Malin Head	17·2	-16	WSW	4	c/d	59	92	54	8	5	2	-	7-8	10	1500	1	3
Aldergrove	18·8	-10	W	4	c/d	61	85	57	8	5	2	-	9	10	1500	1	*
Birr Castle	22·9	-8	W	3	c	63	75	55	8	8	2	-	7-8	10	1500	0	*
Valentia Obsy.	25·8	-12	WSW	3	c	62	85	57	8	5	-	-	10	10	4000	0	3
Roches Point	23·8	-6	N	4	bc	70	75	60	9	5	3	-	4-6	4-6	2500	0	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 21st (39)	13h.—18h. 21st (40)	18h. 21st to 1h. 22nd (41)	1h.–7h. 22nd (42)
London (Kew)	cir0c	bcey	cew	ewccr0
Croydon	cbc	bc	cbc	bcc
S. Farnborough	cpr0c	cv	cvbbc	bccir0
Boscombe Down	cbcc	cbc	bc	cr0
Thorney Island	c	cbcc	bcbbc	cpr0c
Lympne	bcm0bc	bcm0bc	bbcc	cir0mir0c
Manston	bmz0bc	bm0bz0	bcbcm0	bcepr0m0
Shoeburyness	bcbc	cyby		cir0
Felixstowe	cbc	bc	cbcbbc	vbccm0ir0c
Gorleston	bc	bcmo	cbcm0	bcc
Mildenhall	cbcbcy	bcyby	bcbcw	bccwcr0r0
Cranwell	bm0	bcz0	bcz0cz0	br0r0m0
Birmingham	oc	c	bcc	ccir0
Upper Heyford	cm0cbc	bcycy	cbc	bcr0r0m
Ross-on-Wye	cav	cv		c
Hartland Point	coc	cbc	bcb	cir
Bristol	cm0bcc	cbcbbc	bcbm0	bbcir0
Portland Bill	cbc	bcbc	bc	c
Plymouth	cm0ir0	bcb	bbc	bcc
The Lizard	c	cbc	bcw	opbc
Scilly (St. Mary's)	cbcc	cbc	bcw	bcc
Guernsey				
Pembroke	cbc	bc	cbc	crr0m0
Holyhead (Valley)	ejr0b	bbcc		cr0r0rr
Chester (Sealand)	md0d0m0c	c	c	cr0m0
Manchester	cm0	cd0d0m0c		d0d0m0
Spurn Head	bcz0	cz0	c	cir0
Catterick	bybcy	c	cbmc	c
Tynemouth	bcc	c	c	cqc
St. Abbs Head	bcapr0c	c	cpr0ir0bc	cbcc
Leuchars	ocirc	crc	eprcbc	bcc
Renfrew (Abbots I.)	cd0d0id0	cid0id0	d0d0m0	cm0dd
Eskdalemuir	bccid0c	cirid0	cid0	id0ir0
Point of Ayre	cid0c	cprc	ir0cir0	rrr0r0
Tiree	pdrid	odtR	odrdm0f	od0rrd
Stornoway	cipr0t	ctt	crrdd	cz0
Dalwhinnie	oco	opr0		opr0
Aberdeen	cir0bc	cprc	cir0	oimd
Wick	eir0c	Rdmr0r0f	d0d0fmc	cm0jfc
Sumburgh	cpr0m0bc	bcc	cid0r0c	cir0r0c
Blacksod Point	c	d	r	r
Malin Head	d	d	r	r
Aldergrove	cid0c	cidc	ccir0	cir0r0r0
Birr Castle	c	c		r
Valentia Obsy.	c	c	r	r
Roches Point	bc	c	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 22nd July

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England	Moderate Southwest to West wind, fresh locally; cloudy, rain at times; average temperature but rather close.
6 South Wales ✝; 7 North Wales ✝	Fresh Southwest to West wind, perhaps gale on coast; cloudy, rain at times: average temperature but rather close.
8 N.W. England ✝; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man ✝	Fresh or strong Southwest to West wind, perhaps gale on coasts; cloudy, rain at times, bright intervals later; rather close at first, becoming cooler.
13A W. Scotland ✝	Moderate variable wind, becoming fresh or strong, westerly; cloudy or dull, much rain to-day, bright intervals later; average temperature.
13B N.W. Scotland; 14 Mid Scotland	(as 13A)
15 N.E. Scotland; 16 Orkneys and Shetlands	Freshening Southeast wind, becoming variable and finally westerly; cloudy, much rain; rather low to average temperature.
17 N. W. Ireland ✝; 18 N. E. Ireland ✝	As 8-12.
19 S. E. Ireland ✝; 20 S. W. Ireland ✝	As 6-7.

GENERAL INFERENCE

Pressure is low to north and high to southwest of the British Isles. A deepening depression West of the Hebrides is moving east. Weather will be very unsettled with rain in most districts. Westerly gales are probable on the coasts of Ireland, Wales, North England and South Scotland.

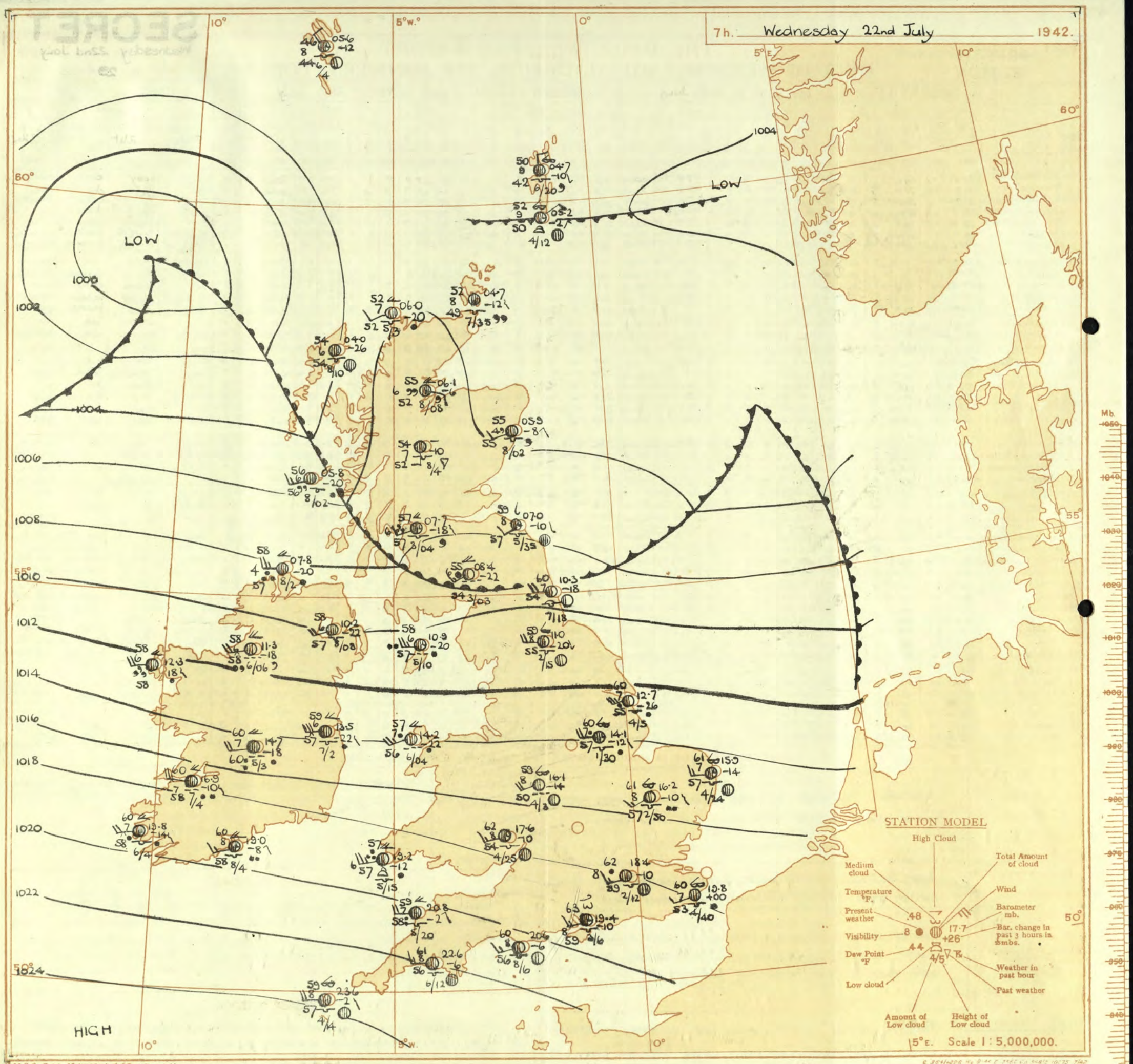
FURTHER OUTLOOK

Continuing very unsettled with rain at times, especially in the North.

✝ Gale warning in operation in districts, 6, 7, 8, 12, 13A, 17, 18, 19, 20. Issued at 0705 G.M.T.

Forecasts issued at 1030.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2.



H.M.S.O. Press, Meteorological Office, 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).

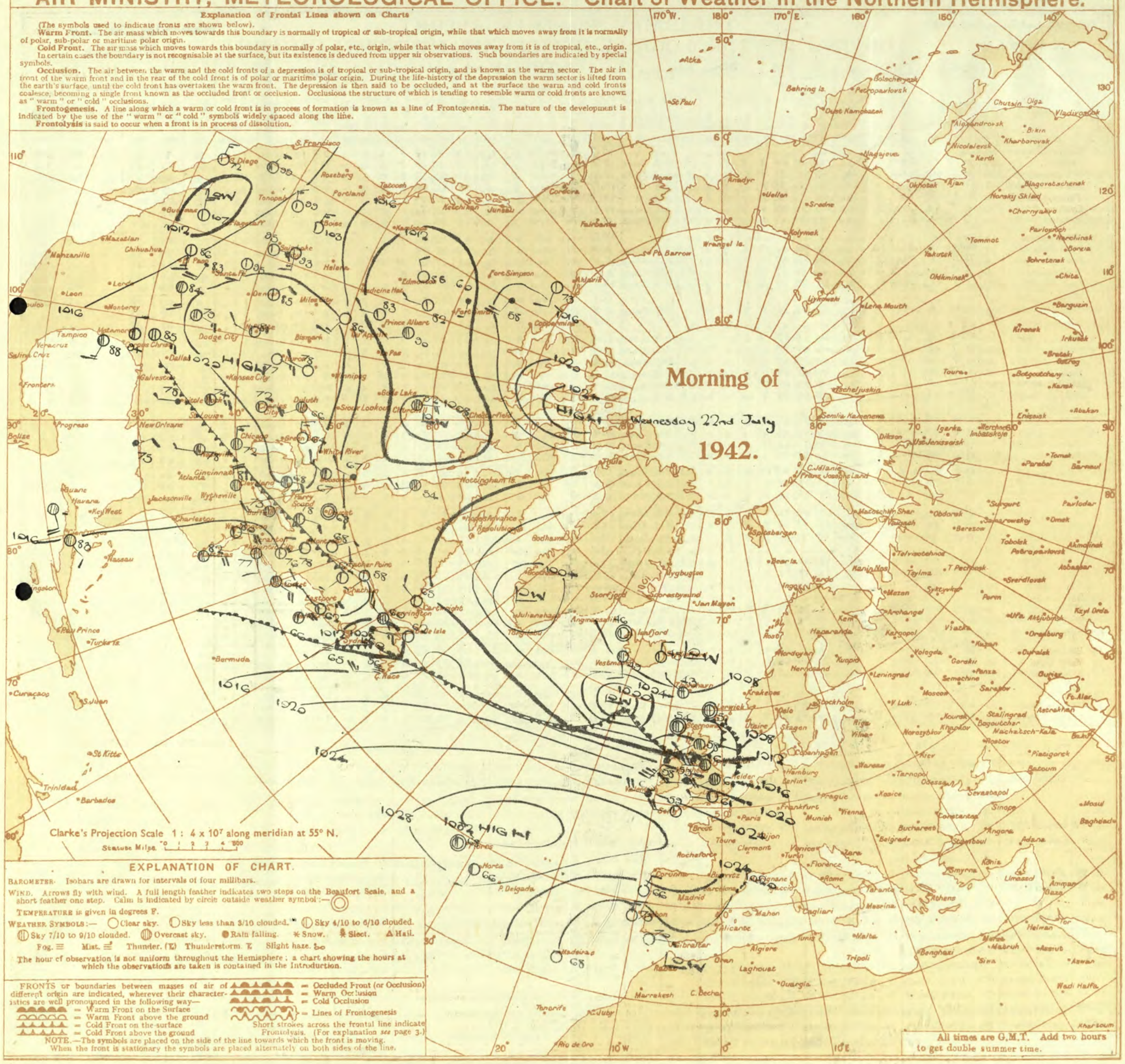
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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.

Wednesday 22nd July 1942

No. 29462

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	*	*	*	*	*	62	*	*	*	*	*	*	*	*	*
	Croydon ...	290	20·6	-2	WNW	1	bc	61	97	60	7	5	4	*	Tr	2-3	3000
	S. Farnborough	226	20·2	-12	SW'W	3	bc	60	92	57	8	5	7	*	4-6	4-6	3500
	Boscombe Down	417	21·1	-10	W	2	c	60	92	57	7	-	7	2	0	7-8	-
	Thorney Island	10	21·2	-6	W	2	bc	60	92	57	8	-	4	1	0	2-3	-
	Lympne ...	283	20·7	-2	WSW	2	z₀	61	92	59	6	5	-	-	2-3	2-3	3000
	Manston ...	154	19·4	-6	W	2	z₀	63	92	61	6	5	-	1	Tr	1	3000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	18·9	-6	WSW	2	bc	63	92	60	7	5	-	-	4-6	4-6	4000
	Gorleston ...	5	18·7	-6	W'N	2	z₀	62	85	57	6	5	-	-	7-8	7-8	2500
	Mildenhall ...	15	18·5	-10	SW'W	3	bc	60	85	57	7	5	-	-	4-6	4-6	4300
	Cranwell ...	203	17·3	-12	W'S	4	z₀	61	85	57	6	5	-	-	2-3	2-3	3000
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	20·2	-4	WSW	3	bc	59	92	56	7	5	-	8	1	7-8	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	22·2	-12	W	4	c	60	97	59	8	5	-	-	7-8	7-8	2500
	Bristol ...	209	21·7	-8	W'S	3	z₀	60	97	58	6	5	-	-	4-6	4-6	1500
	Portland Bill ...	32	21·9	-10	W	2	bc	59	85	55	8	5	-	-	4-6	4-6	4000
	Plymouth ...	82	23·7	-10	W	3	bc	60	92	58	7	5	3	-	1	7-8	2000
	The Lizard ...	240	25·0	-4	NW	3	bc	58	97	58	8	4	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	25·2	-8	WNW	4	bc	59	92	57	8	5	-	-	2-3	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	21·4	-14	W'S	5	bc	58	92	56	8	5	-	-	4-6	4-6	2000
7	Holyhead (Valley)	32	18·6	-14	WSW	3	ir₀	59	85	54	8	5	2	-	7-8	10	2400
	Chester (Sealand)	16	17·5	-14	WSW	2	c	62	85	56	7	5	-	-	4-6	10	3000
8	Manchester ...	235	18·0	-10	WSW	3	c	60	85	56	6	5	-	-	7-8	7-8	4700
10	Spurn Head ...	29	17·1	0	W'S	4	c	61	85	57	7	5	2	-	7-8	10	2500
	Catterick ...	175	15·1	-16	SW	3	c	61	85	55	7	5	7	-	7-8	10	2400
	Tynemouth ...	108	13·7	-16	W	5	c	61	85	56	7	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	09·9	-16	W	4	bc	59	97	59	7	5	4	-	4-6	4-6	2500
	Leuchars ...	36	08·9	-16	W	4	bc	59	97	57	8	5	7	-	1	4-6	2500
12	Renfrew (Abbots I.)	19	11·1	-18	WSW	4	c/d	57	92	55	6	5	2	-	4-6	9+	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	15·4	-14	W'N	5	ir₀	58	92	55	7	8	7	6	4-6	10	2500
13A	Tiree	22	10·9	-14	WNW	3	z₀	56	97	56	6	5	-	-	10	10	800
13B	Stornoway ...	80	07·5	-10	-	0	c	54	97	54	7	5	7	-	4-6	9	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	07·5	-6	WSW	2	c/r	58	85	54	8	5	-	-	9+	9+	4100
	Wick ...	114	07·6	+2	WNW	1	c	52	97	52	7	5	-	-	7-8	7-8	2500
16	Sumburgh ..	19	06·4	-10	NW	2	c/r	51	97	50	7	5	-	-	7-8	7-8	1800
17	Blacksod Point	18	16·4	-24	WSW	5	RR	58	97	58	6	-	2	-	0	10	-
18	Malin Head ...	84	12·5	-26	SW	7	d	58	97	58	5	-	2	-	10	10	800
	Aldergrove ...	268	15·1	-24	SW'W	4	ir₀	57	92	55	7	5	-	-	10	10	1000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	22·7	-18	WSW	4	ir₀	60	92	58	6	6	1	-	9	9+	1500
	Roches Point	22	22·2	-14	W	2	ir₀	59	92	57	8	6	2	-	7-8	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 22nd 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)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
London (Kew)	17·7	-12	SW'W	3	r.r.	62	85	59	8	6	2	-	7-8	10	1500	1	*
Croydon ...	18·4	-10	SW'S	3	ir₀	62	85	59	8	5	2	*	1	10	1200	1	*
S. Farnborough	18·0	-14	WSW	5	ir₀	61	85	57	8	5	1	*	2-3	10	500	0	*
Boscombe Down	19·3	-10	W'N	4	ir₀	61	85	56	8	5	2	-	4-6	9+	2000	0	*
Thorney Island	19·4	-10	WSW	3	c	63	85	59	8	5	3	1	2-3	9	4000	0	*
Lympne ...	19·8	0	WSW	1	c	60	92	60	7	5	7	-	4-6	10	4000	1	§ 3
Manston ...	17·6	-6	SW'W	2	c	62	92	60	7	5	9	2	9	9+	3500	0	*
Shoeburyness ...	17·8	-18	W'S	2	ir₀	63	85	58	6	5	1	-	7-8	10	1600	1	*
Felixstowe ...	16·0	-18	WSW	2	c	63	85	58	7	5	7	-	7-8	9+	4000	1	2
Gorleston ...	15·9	-14	W	3	c	61	85	57	7	5	7	-	4-6	9+	2500	0	2
Mildenhall ...	16·2	-10	SW	3	c/r	61	85	57	8	5	7	*	1	10	5000	1	*
Cranwell ...	14·1	-12	W	4	ir₀	60	92	57	7	5	7	-	Tr	9+	3000	1	*
Birmingham ...	16·1	-14	WSW	4	c	59	85	50	8	6	7	-	4-6	9+	800	1	*
Upper Heyford	16·9	-18	SW'W	4	c/d	60	92	58	7	6	2	-	9	10	700	1	*
Ross-on-Wye	17·6	-10	W'S	3	c	62	75	54	8	5	7	-	4-6	9+	2500	0	*
Hartland Point	20·8	-2	W	4	ir	59	97	58	7	5	2	*	7-8	10	2000	1	4
Bristol ...	19·7	-6	W	4	ir₀	60	85	56	8	5	7	-	7-8	10	800	0	*
Portland Bill ...	20·6	-6	SW	3	c	60	85	56	8	5	-	*	10	10	4000	1	2
Plymouth ...	22·6	-6	W	3	c	61	85	56	8	5	-	-	9	10	1200	0	3
The Lizard ...	23·1	-4	WNW	4	c/r	58	97	58	8	8	6	-	7-8	9+	2000	1	3
Scilly (St. Mary's)	23·6	-2	W	4	c	59	92	57	8	5	7	*	4-6	10	1400	0	3
Guernsey ...																	
Pembroke ...	19·2	-12	W'S	5	rr	57	97	57	6	8	2	-	7-8	10	1500	1	3
Holyhead (Valley)	14·2	-22	SW	5	ir₀	57	97	56	7	6	2	*	9	10	400	1	3
Chester (Sealand)	14·0	-22	WSW	3	id₀	60	85	55	8	5	7	-	2-3	10	3000	1	*
Manchester ...	14·0	-18	SSW	4	d.d₀	57	97	57	6	6	2	-	7-8	10	600	1	*
Spurn Head ...	12·7	-26	W'S	5	ir₀	60	85	55	7	5	7	-	4-6	10	2500	1	3
Catterick ...	11·0	-20	W	4	c	59	85	55	8	5	7	-	1	9+	1500	0	*
Tynemouth ...	10·3	-18	W	4	c	60	85	54	7	8	-	-	9+	9+	1800	1	2
St. Abbs Head	07·0	-10	SW	2	c	59	92	57	8	5	4	-	7-8	9	3500	0	3
Leuchars ...	05·8	-14	SW	3	c	60	92	57	8	5	7	-	1	9+	2500	0	*
Renfrew (Abbots I.)	07·7	-18	WSW	2	dd	57	97	57	6	5	2	-	2-3	10	400	1	*
Eskdalemuir ...	08·4	-22	SW	3	ir₀	55	97	54	6	6	2	-	2-3	10	300	1	*
Point of Ayre ...	10·9	-20	W	5	r.r.	58	97	57	6	6	2	-	7-8	10	1000		4
Tiree	05·8	-20	WSW	3	d.d₀	56	97	56	6	5	-	-	10	10	200	1	4
Stornoway ...	04·0	-26	-	0	c	54	97	54	6	5	-	*	10	10	1000	1	1
Dalwhinnie ...	06·6	-10	S	2	c	54	92	52	7	5	-	-	10	10	1500	1	*
Aberdeen † ...	05·9	-8	SW'W	2	id₀	55	97	55	4	5	-	-	10	10	200	1	1
Wick ...	06·0	-8	-	0	c	53	92	52	9	5	7	-	7-8	9+	2500	1	*
Sumburgh ..	05·2	-2	NE	2	c	52	92	48	9	8	7	-	4-6	9	1200	1	2
Blacksod Point	12·3	-18	WSW	4	dd	58	97	58	6	-	2	*	0	10	-	1	3
Malin Head ...	07·8	-20	W	5	rr	57	97	57	4	-	2	-	10	10	450	2	3
Aldergrove ...	10·2	-22	SW'W	4	ir₀	58	97	57	6	5	-	*	10	10	800	1	*
Birr Castle ...	14·7	-18	WSW	4	ir	60	97	60	7	6	2	-	7-8	10	800	0	*
Valentia Obsy.	19·8	-14	W'S	4	ir₀	60	92	58	7	5	2	-	9	10	1500	1	*
Roches Point	19·0	-8	W'S	3	c/r	60	92	58	8	5	2	-	4-6	9+	2200	1	3

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 21st Hrs. (38)
London (Kew)	76	60	57	Tr	Tr	6·4
Croydon ...	77	59	58	Tr	-	7·6
S. Farnborough	76	59	56	Tr	Tr	3·5
Boscombe Down	75	57	55	-	-	6·1
Thorney Island	75	59	51	-	Tr	*
Lympne ...	76	58	*	-	0·1	11·2
Manston ...	74	59	54	-	Tr	12·1
Shoeburyness ...	78	57	55	-	0·3	12·9
Felixstowe ...	76	58	56	-	-	13·8
Gorleston ...	67	60	56	-	-	10·0
Mildenhall ...	75	59	50	-	0·2	12·8
Cranwell ...	[illegible]	59	55	-	Tr	13·3
Birmingham ...	71	57	55	-	0·5	2·4
Upper Heyford	76	58	53	-	0·3	*
Ross-on-Wye	75	61	58	-	-	6·3
Hartland Point	65	58	58	-	0·4	4·5
Bristol ...	75	59	55	-	Tr	7·9
Portland Bill ...	65	56	*	-	-	*
Plymouth ...	74	59	55	Tr	-	6·3
The Lizard ...	67	57	*	-	Tr	6·5
Scilly (St. Mary's)	69	58	*	-	-	11·0
Guernsey ...						
Pembroke ...	64	57	*	-	3	8·9
Holyhead (Valley)	67	56	51	-	3	*
Chester (Sealand)	69	59	56	-	0·4	1·4
Manchester ...	65	57	56	0·1	*	*
Spurn Head ...	70	60	*	-	Tr	11·6
Catterick ...	73	58	57	-	-	9·4
Tynemouth ...	69	60	57	-	-	*
St. Abbs Head	65	58	*	0·1	0·1	*
Leuchars ...	69	56	53	0·2	Tr	1·7
Renfrew (Abbots I.)	61	56	55	Tr	1	0·1
Eskdalemuir ...	65	53	52	1	2	3·7
Point of Ayre ...	72	56	*	0·2	2	1·9
Tiree	58	55	*	6	2	0·0
Stornoway ...	61	53	*	5	1	0·1
Dalwhinnie ...	64	52	52	0·6	1	2·1
Aberdeen † ...	68	55	53	6	2	1·8
Wick ...	61	49		5	5	*
Sumburgh ..	56	47	46	-	0·6	1·9
Blacksod Point	62	57	*	Tr	13	*
Malin Head ...	60	57	*	Tr	6	0·0
Aldergrove ...	65	56	55	Tr	1	0·5
Birr Castle ...	70	58	56	-	2	4·0
Valentia Obsy.	63	59	58	-	0·4	3·9
Roches Point	72	59	*	-	4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 21st 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. 22nd 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	5-	21756	25356	5-	64628	00058	5-	03763	00068	5-	21867	00057
115				--	67809	10169	--	67709	02169	52	09735	20268
203				8/	62738	22468				--	08499	16349
206	73	02966	23517	52	62745	22368	57	02856	24168	52	52628	09258
210	5-	61968	21128	5-	62858	20368	5-	22748	25368	5-	51618	08258
220				6-	64418	28568						
230	5-	59518	20368	52	64517	17468	52	22825	18368	5-	64408	20268
245	57	22964	20407	57	22952	24367	753	01504	25364	57	02855	26217
260				54	02745	23537	52	51646	23668	5-	61648	23568
278	57	02853	26357	5-	51848	28558	5-	62638	21468	62	54528	26368
279	53	21625	21458	52	21745	21558	5-	02853	22828	5-	61628	32468
285	27	05635	24517	54	02856	26227						
288	36	02865	22325	53	02762	19326	07	02706	19327	67	61856	20428
575	5-	21548	55558	57	21847	57458	62	64638	57468	62	52636	35458
301	5-	02834	25358	5-	02858	24628	5-	02758	57528	62	52527	56558
321	13	01751	58413	57	05652	23226	03	05630	24327	52	22644	22268
299	01	00791	26101	54	02764	24315	4-	01764	24314	52	02755	32416
292	18	01962	24364	57	01854	20327	52	02856	23228	5-	61848	21368
310	--	02628	26428	--	01626	24316				--	57109	24359
614	10	01754	22314	24	05654	26325	57	05565	22228	57	22654	20267

III	13h. G.M.T. 21st 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. 22nd 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
333	73	01862	26324	5-	02857	18317	52	02854	22328	62	62625	22468
334	--	02655	20216	--	02655	20217				--	64447	24368
340	73	02956	29327	4-	02956	29227	52	02854	22328	12	61977	22467
136				00	05690	24411	51	05674	24128	57	22675	22367
336	50	01755	24415	14	01753	28414						
350	86	02753	26325	53	02756	25327	07	02756	22216	57	61645	20368
368	24	01852	24413	80	01853	24514				5-	61738	23465
379	8-	02947	24327	20	01948	26424				62	22734	24368
390	1-	01764	26314	86	02765	26216	00	05690	28213	52	62544	23268
882	83	02865	25326	86	01764	27225	54	01851	00028	67	02826	22463
438	57	02754	24416	76	02764	24215	70	05753	24323	87	02724	22427
430				87	02876	26227	54	01761	24213	57	02761	20225
409	5-	02718	30325	54	01813	25314	5-	01744	22214	52	62617	21368

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_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	cirs c	bccy	ccw	
Croydon ...	cbc	bc	bcc	
Greenwich ...	c	cb ccy	cbccir	Kew 24 hours ended 7h. Max. Time 0·1 [illegible] 21st
Camden Square	c	bc	*	
Kensington ...	cbc	bc	*	
Hampstead ...	obc	or	od	Min. Time [illegible] 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	76	60	57	Tr	Tr	6·4	*	*
Croydon ...	77	59	58	Tr	-	7·6	*	*
Greenwich ...	78	60	53	-	0·3	5·8	48	77
Westminster ...	78	58	58	0·2			66	89
Regents Park ...	78	61	58	*	0·5		71	76
Camden Square	78	61	56	*	0·3	*	*	75
Kensington ...	78	64	55	*	0·2		60	80
Hampstead ...	77	58	55	*	0·2		*	85

BRITISH SECTION

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

SECRET

Thursday 23rd July 1942

No. 29463

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)	15.2	-14	WSW	4	c	66	65	55	8	5	-	-	10	10	1500
	Croydon ...	15.9	-14	WSW	3	c	64	85	58	8	5	-	-	10	10	2800
	S. Farnborough	16.1	-12	W'S	5	c	66	75	56	8	5	-	-	9+	10	2000
	Boscombe Down	15.5	-8	W	5	c	62	85	60	8	5	2	-	9	10	1500
	Thorney Island	17.2	-10	WSW	5	c/d	65	75	58	8	5	3	-	4-6	9+	2500
	Lympne ...	17.3	-20	WNW	3	c	62	65	53	8	1	3	-	7-8	9+	2000
	Manston ...	15.0	-10	WSW	4	c/pr	68	75	60	8	6	7	-	9	9+	4000
2	Shoeburyness ...	15.1	-10	WSW	4	c	67	75	56	8	5	-	-	10	10	1500
	Felixstowe ...	13.7	-26	W'S	4	c	68	65	55	7	5	2	-	9	10	4000
	Gorleston ...	12.5	-10	W'N	4	c/pr	67	65	55	7	8	7	-	4-6	9	2000
	Mildenhall ...	12.0	-14	WSW	5	c	65	75	55	8	5	7	-	9	10	2000
	Cranwell ...	10.3	-22	WSW	5	c/r	64	85	58	7	5	2	-	7-8	9+	1000
3	Birmingham ...	12.8	-10	SW	4	r+	61	92	59	6	6	2	-	9	10	1500
	Upper Heyford	13.7	-14	W'S	5	c	65	75	57	8	5	2	-	4-6	10	1200
4	Ross-on-Wye	14.7	-12	W'S	5	cq	66	75	56	8	5	7	-	7-8	9+	3000
5	Hartland Point	17.9	-6	WSW	5	c	60	97	58	7	-	2	-	7-8	10	1500
	Bristol ...	17.6	-8	W	6	c	62	85	57	8	5	-	-	10	10	800
	Portland Bill ...	19.0	-12	WSW	4	c	62	85	59	8	2	4	-	4-6	7-8	4000
	Plymouth ...	20.7	-10	WNW	4	c	67	65	54	8	7	7	-	4-6	7-8	2500
	The Lizard ...	22.4	0	WSW	5	c	61	92	59	8	8	0	-	7-8	7-8	2500
	Scilly (St. Mary's)	21.9	-10	WSW	5	c	65	85	59	8	-	5	-	0	9+	-
	Guernsey ...															
6	Pembroke ...	16.6	-10	WS	7	cq	58	92	56	7	8	1	-	7-8	10	1500
7	Holyhead (Valley)	11.5	-10	SW	5	r+	59	97	58	6	6	2	-	7-8	10	1000
	Chester (Sealand)	10.7	-12	W'S	3	f	62	92	60	6	6	-	-	10	10	800
8	Manchester ...	10.0	-18	SW'S	4	bd	60	97	60	4	6	2	-	7-8	10	400
10	Spurn Head ...	05.4	-16	SW	4	r r	61	85	58	7	5	2	-	7-8	10	1500
	Catterick ...	06.6	-26	W'S	3	c	63	85	60	9	5	7	-	7-8	10	1100
	Tynemouth ...	05.6	-26	W	4	ir	63	86	58	0	-	2	-	10	10	1800
11	St. Abbs Head	03.5	-20	SW	1	r+	60	97	59	6	6	-	-	10	10	2100
	Leuchars ...	01.1	-30	SW	2	r r	59	97	59	6	5	2	-	9	10	1800
12	Renfrew (Abbotsl.)	03.2	-26	WSW	4	bd	59	92	57	6	5	2	-	10	10	600
	Eskdalemuir ...	03.5	-20	SW'W	5	r	59	92	56	6	-	2	-	10	10	700
	Point of Ayre ...	06.7	-20	W	6	r+	60	97	60	7	6	2	-	4-6	10	1000
13A	Tiree ...	00.2	+24	WSW	4	r+	57	97	57	4	-	2	-	10	10	100
13B	Stornoway ...	97.1	-32	S	4	r r	55	97	55	6	5	2	-	7-8	10	1000
15	Dalwhinnie ...	01.2	-22	S	3	ir	54	97	53	6	5	-	-	10	10	1500
	Aberdeen ...	01.0	-36	S'E	2	r+	54	97	54	4	5	-	-	10	10	200
	Wick ...	00.9	-30	SSE	1	DR	58	92	57	5	5	-	-	10	10	500
16	Sumburgh ...	02.5	-76	SSE	2	c	52	85	47	9	7	-	-	9	9	1800
17	Blacksod Point	03.6	-14	SW'W	5	r+	59	97	59	7	-	2	-	10	10	800
18	Malin Head ...	03.8	-16	SW'W	7	c/r	59	92	54	6	6	2	-	7-8	10	450
	Aldergrove ...	07.4	-14	SW'W	4	r+	60	97	59	8	5	-	-	10	10	400
19	Birr Castle ...	12.6	-10	SW	4	c	61	92	59	7	6	2	-	7-8	10	800
20	Valentia Obsy.	17.6	-20	WSW	6	c	61	85	56	7	5	-	-	10	10	1500
	Roches Point	16.3	-16	W	5	c	64	85	59	8	5	3	5	4-6	9	1500

OBSERVATIONS at 18h. 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)	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	-18	WSW	4	r r	64	85	59	8	5	2	-	9	10	1500	1	*
	Croydon ...	13.5	-14	WSW	4	ir	65	85	60	8	5	-	-	10	10	1200	1	*
	S. Farnborough	14.0	-12	W'S	5	ir	62	92	60	8	5	2	-	9	10	1200	1	*
	Boscombe Down	15.1	-18	WSW	5	ir	61	85	58	8	6	7	-	4-6	9+	4000	0	*
	Thorney Island	15.1	-16	SW'W	5	ir	63	85	58	8	5	2	-	9	10	1500	0	*
	Lympne ...	14.5	-14	SW'W	4	c	63	85	59	8	5	7	-	4-6	10	2500	1	§
	Manston ...	11.9	-20	S'E	4	c	66	85	62	7	6	7	-	4-6	10	1500	0	*
2	Shoeburyness ...	12.8	-12	WSW	4	c	67	75	58	8	5	2	-	9	10	2100	0	*
	Felixstowe ...	10.9	-18	WSW	3	ir	66	75	58	7	6	2	-	10	6	3700	0	1
	Gorleston ...	10.0	-8	W	3	r r	63	92	61	6	5	-	-	10	10	800	1	3
	Mildenhall ...	09.7	-14	WSW	4	r r	64	85	60	7	5	2	-	7-8	10	800	1	*
	Cranwell ...	07.5	-14	WSW	6	r r	62	92	59	7	6	2	-	7-8	10	500	1	*
3	Birmingham ...	09.8	0	SW	4	c	61	92	59	8	6	-	-	10	10	1000	1	*
	Upper Heyford	11.4	-22	SW'W	5	ir	61	92	58	7	6	2	-	4-6	10	800	1	*
4	Ross-on-Wye	11.8	-24	W'S	6	cq	62	75	55	7	5	-	-	10	10	2000	0	*
5	Hartland Point	14.1	-34	WSW	5	c	60	97	58	7	5	2	-	9	10	1000	0	3
	Bristol ...	14.5	-24	W'S	6	c	62	85	56	8	5	7	-	9	9+	1500	0	*
	Portland Bill ...	16.7	-8	WSW	5	c	60	92	58	7	5	-	-	10	10	2500	1	4
	Plymouth ...	18.5	-16	W	4	c	63	75	56	8	5	7	1	4-6	7-8	2500	0	3
	The Lizard ...	19.7	-14	W	5	bc	61	85	58	8	8	6	-	4-6	4-6	2500	0	4
	Scilly (St. Mary's)	19.6	-22	WSW	5	c	62	85	57	8	8	4	-	4-6	9	1500	0	4
	Guernsey ...																	
6	Pembroke ...	12.2	-26	W'S	8	cq	59	85	55	7	5	1	-	9	10	1500	1	5
7	Holyhead (Valley)	08.4	-26	SSW	6	r+	58	97	57	5	5	-	-	2-3	10	500	1	5
	Chester (Sealand)	07.5	-22	SW'W	4	r+	61	85	58	6	-	2	-	10	10	1500	1	*
8	Manchester ...	07.5	-22	SW'S	4	r+	60	97	59	6	6	2	-	9	10	400	1	*
10	Spurn Head ...	05.7	-18	WSW	6	r+	62	92	59	6	-	2	-	10	10	1500	1	4
	Catterick ...	02.8	-24	WSW	4	ir	63	85	58	8	5	7	-	7-8	10	1000	1	*
	Tynemouth ...	02.0	-8	W	5	c	64	75	57	7	8	3	-	4-6	7-8	2400	1	3
11	St. Abbs Head	97.7	-14	W	4	c	61	85	58	8	6	4	-	4-6	7-8	2500	1	3
	Leuchars ...	95.3	-34	WSW	4	c	63	85	56	8	8	6	-	9	9	1500	1	*
12	Renfrew (Abbotsl.)	99.5	-20	WSW	5	c/d	59	85	54	8	5	-	-	4-6	9+	800	1	*
	Eskdalemuir ...	99.3	-24	WSW	6	r+	58	92	56	6	-	2	-	10	10	800	1	*
	Point of Ayre ...	03.0	-26	W	6	c	60	92	57	8	6	2	-	7-8	10	1500	1	5
13A	Tiree ...	96.8	-18	WSW	4	ir	56	97	55	7	6	2	-	9	9+	450	1	2
13B	Stornoway ...	91.9	-28	WSW	4	r r	57	97	57	6	5	-	-	10	10	500	1	2
15	Dalwhinnie ...	95.3	-34	W	3	c	57	85	53	7	5	-	-	9+	9+	1500	1	*
	Aberdeen ...	94.6	-36	S'W	2	c/r	59	97	58	6	5	7	-	7-8	9+	600	1	
	Wick ...	94.8	-38	ESE	2	r r	53	92	52	4	5	-	-	10	10	300	1	*
16	Sumburgh ...	98.5	-26	ESE	3	ir	52	85	47	9	6	7	-	4-6	10	1500	0	3
17	Blacksod Point	06.9	-10	WSW	5	r+	58	97	57	7	6	2	-	4-6	10	1500	2	4
18	Malin Head ...	99.8	-22	W'S	7	c	58	92	56	7	6	2	-	4-6	10	1500	2	4
	Aldergrove ...	03.1	-22	SW'W	4	ir	59	92	57	7	6	2	-	9+	10	400	1	*
19	Birr Castle ...	08.8	-26	W'N	4	c	61	85	57	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy.	14.3	-20	WSW	6	r r	60	92	58	6	5	-	-	10	10	800	1	5
	Roches Point	12.8	-20	W	5	c/r	62	92	60	8	6	7	-	4-6	9+	1500	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 22nd (39)	13h.—18h. 22nd (40)	18h. 22nd to 1h. 23rd (41)	1h.–7h. 23rd (42)
1	London (Kew)	c ir c	c ir r	c r ir c	c r c y
	Croydon ...	c ir r	c ir	c ir c	c i d
	S. Farnborough	ir c	c ir	c ir i d m	c m c d, ir c
	Boscombe Down	c ir c	c ir c	c ir d	c i d c
	Thorney Island	c ir c	c c ir	c ir	ir c r
	Lympne ...	c b c c	c ir c	c m c r	c m c r d
	Manston ...	c q r	c ir	c ir m c m	b m c ir
2	Shoeburyness ...	c ir c	c	c ir	c ir b c c
	Felixstowe ...	c	c p r c ir	c ir r c r c	c ir c b c
	Gorleston ...	c p r	c p r r	c r c ir c	c
	Mildenhall ...	c c ir c	c r c	c p r m	c ir m c
	Cranwell ...	ir c f f	c c r r	c ir b c m	b b c m c
3	Birmingham ...	c r	r r c		c
	Upper Heyford	c c ir c	c r r	c c ir c	c p r q c
4	Ross-on-Wye	c c q	c q d c q	c q d c q	c q
5	Hartland Point	i r c	i r c	c i d	c
	Bristol ...	c i r c	c c i r c	c m d c r r	c r c r p r
	Portland Bill ...	c c	c o	=	c o
	Plymouth ...	c	c	c i r m c	c i r m c
	The Lizard ...	b c c	c b c	c p r c	o d f c
	Scilly (St. Mary's)	c	c	c i d	c d c
	Guernsey ...				
6	Pembroke ...	i r c q m	c q	c b c q	p r c q
7	Holyhead (Valley)	c d d r d m	c r r m	r r i r c	c i r
	Chester (Sealand)	c i r r m	c r r m	c i d	c i r m c
8	Manchester ...	d d d m m	d d r r r	c i d m c	i d c p r
10	Spurn Head ...	c r r	o r r		c q
	Catterick ...	c i r c	c i r	c i r	b c r b c
	Tynemouth ...	o i r	o i r c	c q	c q b c
11	St. Abbs Head	c r r m	c r r m c	c i r c	c i r b c c
	Leuchars ...	c r b m	c r r c	c i r c i r c	b c c
12	Renfrew (Abbotsl.)	c m d d	c m d d	i d c	c
	Eskdalemuir ...	r c r r	r c r r	c r r c	c i r c
	Point of Ayre ...	c r	r r a	c p r c	c p r c
13A	Tiree ...	c r r	o r r m m o	i D d r	c i r c
13B	Stornoway ...	c r r	c r r	c p r	c
15	Dalwhinnie ...	o i r	p i r c		o i r
	Aberdeen ...	d d r r	o r r m c	b c p r d	c d c
	Wick ...	c c d d r	c r r f m	r f r d m	d d D r r b c
16	Sumburgh ...	c	c i r c	c a r r c	b c
17	Blacksod Point	r	r	p r	p r
18	Malin Head ...	r	r	c	p r
	Aldergrove ...	c r r f i r	c i r r	i r i r m c	c r c p r
19	Birr Castle ...	r	r		c
20	Valentia Obsy.	r	r	p r	r
	Roches Point	r	r	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 23rd July

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh Northwest wind, backing West; cloudy at first with local showers to-day; fair to-night: cool.
4 W. Midlands 5 S.W. England 6 South Wales	Moderate or fresh Northwest wind, strong on coast, backing Southwest; mainly fair at first, but with considerable cloud and local showers; low cloud and rain reaching extreme West of area late in the night and spreading northeastwards; cool.
7 North Wales 8 N.W. England 9 N. Midlands ...	Moderate or fresh North to Northwest wind, strong on coast, backing Southwest to-morrow; much cloud and occasional rain or showers at first; fair periods later; cool.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Moderate or fresh North to Northeast wind, backing West to-morrow; much cloud and occasional rain or showers at first; fair periods later: cool.
13A W. Scotland ...	As 10–11
13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate or fresh North to Northeast wind backing Northwest later; cloudy with showers at first, bright intervals later: cool.
16 Orkneys and Shetlands	As 13A–15.
17 N. W. Ireland ♦ 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland ♦	As 4–6

GENERAL INFERENCE

A deep depression over the North Sea is moving away eastsoutheast and a ridge of high pressure is spreading over the British Isles from the West. A deepening depression far out on the Atlantic will move quickly eastwards. Weather will be mainly fair at first apart from a few showers in the East and North, but rain will reach Ireland and the extreme southwest of England later in the night and spread quickly eastwards to-morrow.

FURTHER OUTLOOK

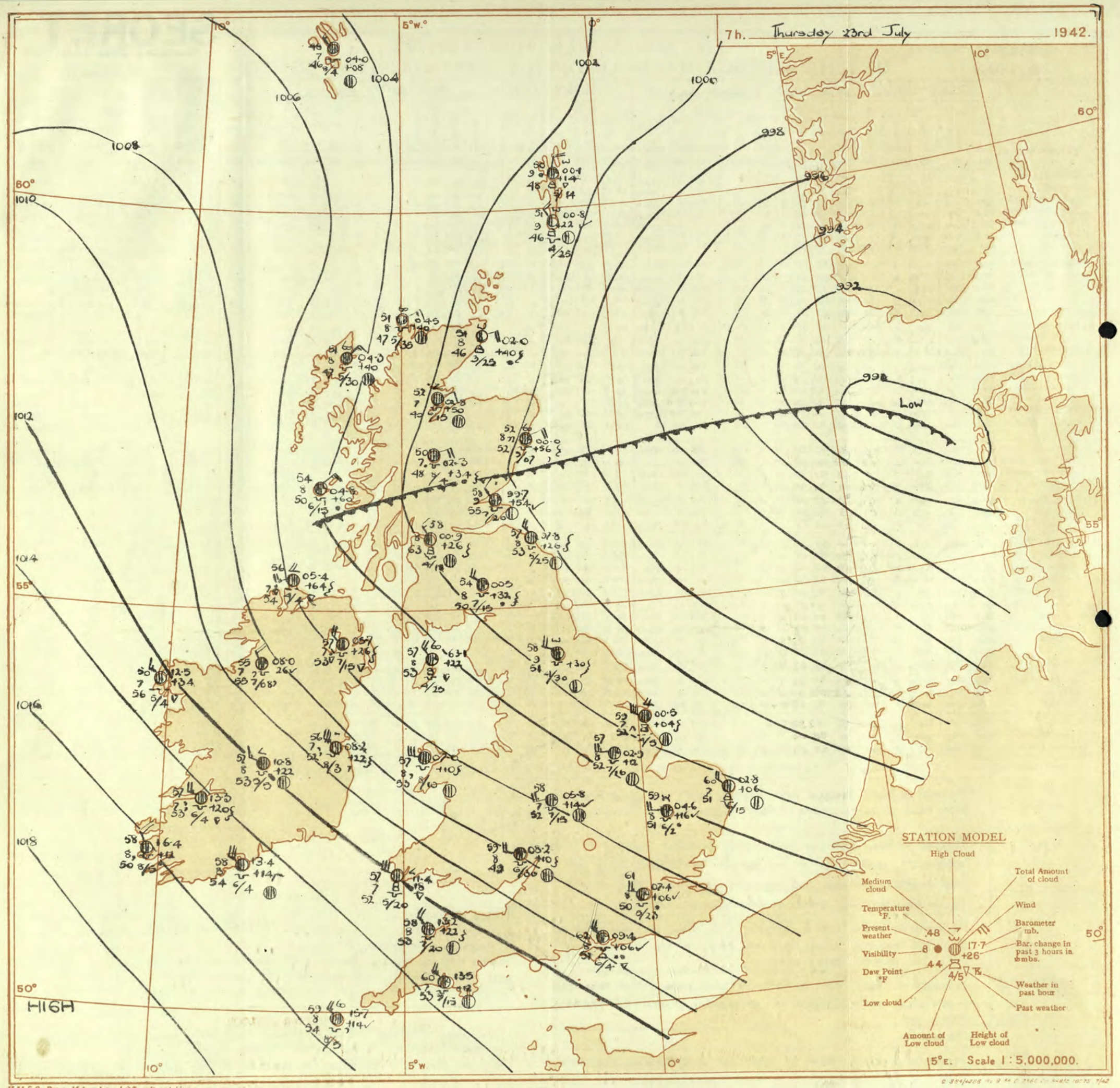
Continuing unsettled and cool. Much cloud with some rain at times in most districts, some bright intervals in the South.

♦ Gale warning in operation in districts 17, 20. Issued at 0705 G.M.T. 22.7.42.

Forecasts issued at ..

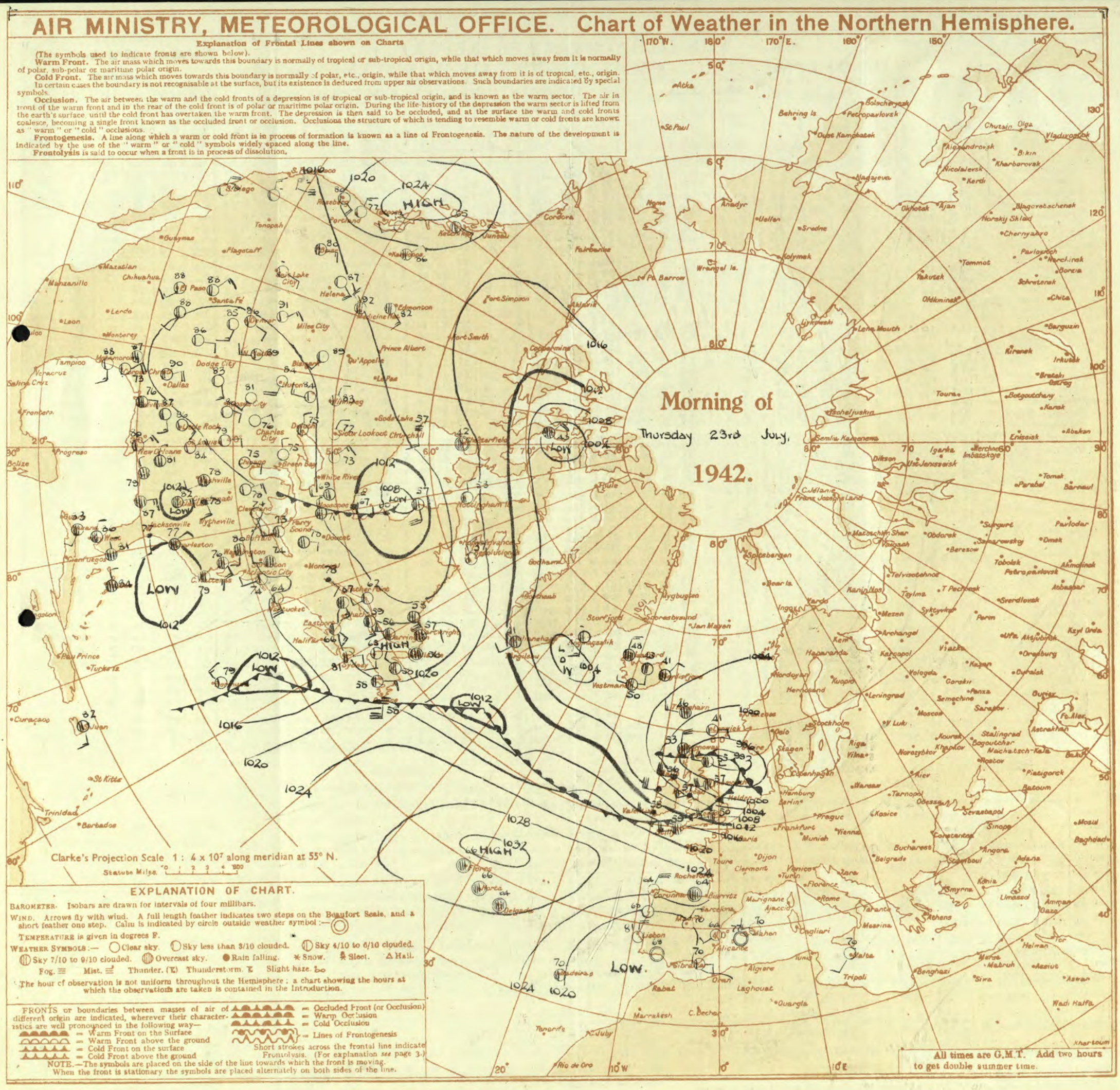
N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Thursday 23rd July 1942.



H.M.S.O. Press, Meteorological Office 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.

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.

BRITISH SECTION

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

Thursday 23rd July 1942

No. 29463

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)	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	*	*	*	*	*	62	*	*	*	*	*	*	*	*	*
	Croydon	290	08·1	-26	W'S	5	c	60	85	55	7	5	2	-	9	10	2000
	S. Farnborough	226	08·1	-26	WSW	5	c	60	85	55	6	5	2	-	9	10	1800
	Boscombe Down	417	09·3	-26	WSW	5	id.	60	85	55	7	5	-	-	4-6	10	1200
	Thorney Island	10	10·2	-22	WSW	6	ir.	61	85	57	7	5	-	-	10	10	1200
	Lympne	283	10·2	-20	SW	4	r.r.	58	92	56	6	6	2	-	9+	10	300
	Manston	154	07·7	-18	SWW	3	r.r.	60	85	55	6	6	2	-	7-8	10	1800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	05·6	-22	WSW	5	c/r	62	85	56	7	5	2	-	9	10	3100
	Gorleston	5	04·5	-26	[illegible]	5	c	59	85	55	6	9	-	-	9+	9+	1500
	Mildenhall	15	04·9	-20	S'W	4	ro	59	97	57	6	6	2	-	7-8	10	1600
	Cranwell	203	01·8	-22	W'S	6	z.	58	92	56	6	5	-	-	1	1	3000
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	06·1	-20	WSW	6	c	60	92	56	7	5	7	-	4-6	7-8	5500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	11·0	-8	W	6	c	59	97	59	6	5	2	-	7-8	10	800
	Bristol	209	08·8	-26	W	8	r.r.	60	92	58	5	5	2	-	9+	10	800
	Portland Bill	32	12·5	-16	W	5	o	58	92	56	7	5	-	-	10	10	2500
	Plymouth	82	13·1	-22	WSW	5	ir.	59	97	58	6	5	-	-	10	10	1400
	The Lizard	240	14·9	-14	W	6	pr	59	97	58	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	16·4	-14	W'S	6	c/d	59	97	57	7	5	2	-	7-8	10	1000
	Guernsey	175															
6	Pembroke	142	09·4	-2	W'S	7	bc	58	92	56	7	8	-	-	4-6	4-6	2500
7	Holyhead (Valley)	32	05·3	-6	WSW	6	ir.	57	85	53	7	5	-	-	9+	9+	2700
	Chester (Sealand)	16	04·0	-10	W	4	d.d.	60	75	[illegible]	7	-	2	-	9	10	1000
8	Manchester	235	03·0	-16	SW'W	5	id.	58	85	52	6	5	-	-	9	9	2700
10	Spurn Head	29	01·3	-20	WSW	4	c	61	75	54	7	5	2	-	4-6	10	1500
	Catterick	175	98·7	-12	W	3	bc	58	75	51	8	5	3	-	4-6	4-6	1800
	Tynemouth	108	97·5	-18	W	6	cq	57	85	53	7	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	93·9	-20	SW	5	ir.	56	85	52	7	5	-	-	10	10	2500
	Leuchars	36	93·3	-6	WSW	3	c	55	92	53	7	5	3	-	7-8	9	2000
12	Renfrew (Abbots I.)	19	96·6	-4	W	3	c/d	55	92	53	7	5	7	-	7-8	9+	1000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	00·2	-6	W'N	5	c	56	92	53	8	8	2	*	7-8	10	2000
13A	Tiree	22	96·4	+8	W'N	5	c/d	55	92	53	7	8	-	-	4-6	7-8	800
13B	Stornoway	80	95·5	+36	NNE	5	c	53	97	52	7	5	7	-	7-8	10	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	92·6	+2	WNW	3	c	55	85	50	8	5	-	-	7-8	7-8	3000
	Wick	114	94·2	+14	ENE	4	id.	51	97		6	5	-	-	10	10	600
16	Sumburgh	19	96·7	0	NE	3	c	50	75	43	8	5	-	-	9+	9+	1500
17	Blacksod Point	18	07·7	+6	W	6	pr	56	97	55	7	6	2	-	4-6	10	1500
18	Malin Head	84	99·7	+10	WNW	7	pr	56	92	54	7	6	2	-	7-8	10	1500
	Aldergrove	268	01·4	-2	W	5	c/d	56	85	52	8	5	-	-	10	10	1800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	14·5	+6	WNW	5	ir.	58	85	54	6	5	2	-	9+	10	1500
	Roches Point	22	11·2	0	WNW	6	bc	58	85	54	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 23rd 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)	07·5	+18	WNW	4	c	61	65	47	8	5	-	5	9+	9+	2500	1	*
Croydon	07·4	+6	W	5	c	61	65	50	8	5	-	-	7-8	9+	2300	1	*
S. Farnborough	08·4	+18	W'N	4	c	60	65	50	9	5	-	-	9+	9+	2000	0	*
Boscombe Down	09·5	+14	WNW	6	c	58	75	50	8	5	-	-	10	10	2000	0	*
Thorney Island	09·4	+6	WNW	5	c/r	62	65	51	8	7	-	-	9	9	1500	0	*
Lympne	07·9	-4	W	4	c	61	75	54	8	5	3	9	7-8	9+	1200	1	§
Manston	06·4	-6	W	4	c/r	61	75	54	8	5	7	-	7-8	9	2000	1	*
Shoeburyness	00·7	+18	[illegible]	3	c	62	65	50	7	5	4	-	9	9+	2500	0	*
Felixstowe	04·5	+8	W'S	4	bc	61	85	57	8	1	-	-	4-6	4-6	2000	1	4
Gorleston	02·8	+6	WNW	4	c	60	75	51	7	8	-	-	9	9	1500	1	3
Mildenhall	04·6	+16	W'S	4	c	59	75	51	8	5	7	-	9	9+	2000	1	*
Cranwell	02·9	+12	W	5	c	57	85	52	8	5	-	-	9+	9+	1600	1	*
Birmingham	05·8	+4	W	4	c	57	85	53	8	5	3	-	7-8	9+	1500	1	*
Upper Heyford	07·0	+14	W'S	4	c	58	75	51	9	5	3	-	9	9+	2200	0	*
Ross-on-Wye	08·2	+10	W	4	c	59	75	49	8	5	-	-	9	9	3000	0	*
Hartland Point	13·2	+22	WNW	4	c	58	85	53	8	5	-	-	9+	9+	2000	0	5
Bristol	10·3	+10	W	5	c	58	75	54	7	5	-	-	10	10	2500	1	*
Portland Bill	11·6	+4	WNW	5	o	59	92	57	7	5	-	-	10	10	2500	1	5
Plymouth	13·5	+12	WNW	5	(z.)	60	75	53	7	5	-	-	9+	9+	1500	0	3
The Lizard	14·8	+12	WNW	6	c	58	85	52	8	8	6	-	7-8	9+	1500	1	4
Scilly (St. Mary's)	15·7	+14	WNW	5	c	59	85	54	8	5	7	-	7-8	10	1000	0	4
Guernsey																	
Pembroke	11·4	+18	W'N	6	cq	57	85	52	7	8	1	-	7-8	9+	2000	1	4
Holyhead (Valley)	07·0	+10	W	6	d.	57	85	53	8	5	-	-	10	10	1000	1	5
Chester (Sealand)	05·2	+12	W'N	5	ir.	58	85	52	6	5	-	-	10	10	1000	1	*
Manchester	04·6	+18	W'S	5	c/pr	56	92	54	6	2	-	-	10	10	1500	1	*
Spurn Head	00·5	+4	W'N	7	cq	59	75	52	7	9	2	-	4-6	10	2500	0	5
Catterick	01·1	+30	W'N	4	c	58	75	41	9	5	3	-	4-6	7-8	3000	0	*
Tynemouth	99·6	+20	W	5	bc	59	85	53	8	2	3	-	2-3	4-6	2700	1	3
St. Abbs Head	97·8	+26	WNW	5	c	57	85	53	8	5	4	-	7-8	9	2500	0	4
Leuchars	99·7	+54	NW	2	c	58	85	55	9	5	-	-	9+	9+	2000	0	*
Renfrew (Abbots I.)	00·9	+26	NW'W	3	c	58	85	53	8	8	-	-	4-6	7-8	1800	1	*
Eskdalemuir	00·5	+32	WNW	4	c	54	85	50	8	5	-	-	9+	9+	1500	1	*
Point of Ayre	03·1	+22	WNW	5	c	57	85	53	8	8	7	-	4-6	9+	2500	1	5
Tiree	04·8	+60	N'E	5	c	54	85	50	8	5	-	-	9	9	1500	0	5
Stornoway	04·3	+40	NNE	3	c	51	85	47	8	5	7	-	7-8	10	3500	1	1
Dalwhinnie	02·3	+34	NNE	3	ir.	50	92	48	7	5	-	-	10	10	1500	1	*
Aberdeen †	00·0	+52	NE'N	3	d.d.	52	97	52	8	5	7	-	7-8	9+	700	1	2
Wick	02·0	+40	NNE	4	bc	51	85	46	8	2	3	-	2-3	4-6	2500	1	*
Sumburgh	00·8	+22	NW	4	bc	51	85	46	9	8	3	-	4-6	4-6	2500	0	2
Blacksod Point	12·5	+34	W'N	3	c	56	97	55	7	6	-	-	7-8	7-8	1500	1	3
Malin Head	05·4	+64	SW	5	pr	56	92	54	7	6	2	-	4-6	7-8	1500	1	4
Aldergrove	05·7	+26	WNW	4	pr	57	85	53	7	5	-	-	9+	9+	1500	1	*
Birr Castle	10·8	+22	W	3	c	57	85	53	8	5	1	-	7-8	10	2500	1	*
Valentia Obsy.	16·4	+12	NW'W	4	id.	58	85	54	8	5	-	-	10	10	2500	0	5
Roches Point	13·4	+14	WNW	6	c	58	85	54	8	5	-	-	9	9	1500	0	4

PAST 24 HOURS

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 22nd Hrs. (38)
London (Kew)	67	59	57	Tr	1	0·1
Croydon	67	58	57	0·1	1	0·2
S. Farnborough	67	59	57	0·1	0·1	0·5
Boscombe Down	66	57	55	1	0·2	0·0
Thorney Island	70	60	*	Tr	Tr	*
Lympne	70	58	*	0·1	0·6	2·4
Manston	69	58	57	Tr	0·3	0·5
Shoeburyness	71	57	55	0·2	Tr	0·5
Felixstowe	71	57	55	Tr	2	1·2
Gorleston	68	58	55	1	2	1·7
Mildenhall	67	58	54	1	1	0·5
Cranwell	*	56	53	2	1	0·0
Birmingham	63	56	53	7	1	0·0
Upper Heyford	67	57	57	0·3	Tr	*
Ross-on-Wye	67	58	56	Tr	Tr	0·0
Hartland Point	60	57	56	1	0·3	0·0
Bristol	63	57	54	Tr	3	0·0
Portland Bill	62	57	*	-	1	*
Plymouth	69	58	55	-	Tr	0·8
The Lizard	65	57	*	-	0·5	4·9
Scilly (St. Mary's)	66	57	*	-	Tr	2·3
Guernsey						
Pembroke	59	51	*	-	Tr	0·0
Holyhead (Valley)	60	56	56	11	Tr	*
Chester (Sealand)	63	58	55	9	2	0·0
Manchester	61	55	54	17	5	*
Spurn Head	63	58	56	3	0·6	0·0
Catterick	64	55	51	0·1	Tr	6·0
Tynemouth	64	56	53	3	-	*
St. Abbs Head	63	50	*	6	Tr	*
Leuchars	63	52	48	2	Tr	1·5
Renfrew (Abbots I.)	60	54	53	5	0·6	0·1
Eskdalemuir	59	52	51	0	6	0·0
Point of Ayre	62	55	*	9	2	0·0
Tiree	60	54	*	*	2	0·0
Stornoway	58	56	*	7	1	0·0
Dalwhinnie	58	49	44	4	0·3	0·0
Aberdeen †	62	51	50	4	0·2	0·0
Wick	62	48	47	7	12	*
Sumburgh	55	45	40	Tr	0·2	0·5
Blacksod Point	59	56	*	6	1	*
Malin Head	59	54		5	1	0·0
Aldergrove	62	54	52	8	2	0·0
Birr Castle	62	55	54	3	0·3	0·0
Valentia Obsy.	64	56	55	Tr	0·3	0·0
Roches Point	65	57	*	0·4	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIIC	13h. G.M.T. 22nd July $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 23rd July $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	62	52526	13228	62	64526	08368	62	64026	04468	83	01853	32324
115				--	67109	12169	--	67109	08469			
203							5-	02368	20428			
206	62	62745	00068	67	22645	20167	5-	02757	26317	51	02746	04228
210	5-	62625	17268	62	52524	00058	5-	62748	23368	87	02935	01458
220	5-	2215-	59428							52	03846	28428
230	5-	64508	53368	52	21736	18467	52	51636	22387	5-	02947	28357
245	52	62734	22308	8-	02846	55387	57	61955	24367	5-	21757	02357
260	52	52735	23468	62	61334	*				5-	02746	23366
278	5-	62728	22368	55	61847	22367	5-	52638	24568	57	21834	26664
279	5-	64528	53468	62	51625	20668	62	62635	55668	5-	02847	58427
285												
288	53	02537	20428	5-	02845	53567	87	25864	21487	5-	02854	[illegible]3326
575	61	61835	57568	63	63626	59867	5-	21648	59658	5-	51737	18457
301	62	64506	56558	62	62615	56668	52	63646	57628	5-	02833	57656
321	51	22856	22368	57	61754	23468	50	02754	22324	50	05655	22425
299				8-	62748	22428				57	02744	24414
292	52	02847	23468	52	22946	22468				5-	02944	25416
310	--	67109	24348				--	67209	24569			
614	57	53533	28358				50	05645	55565	57	52656	55558

IIIC	13h. G.M.T. 22nd July $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 23rd July $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
333	62	64624	55668	62	64625	54568	52	02745	53426	57	02846	57367
334	--	64447	24468							..	02656	24427
340	52	61954	22568	52	61847	55468	53	02955	25416	5-	51947	27427
136	52	62746	24388	52	60626	22368	5-	22634	21446	5-	02948	22668
336	62	64526	24568	52	02756	24528				62	64626	28568
350	5-	02848	56428	62	62636	20568	5-	21708	54468	5-	02845	24528
368	62	22337	56468	62	22627	53628	5-	05638	55668	8-	31748	57588
379	67	02835	55527	62	22737	55565	5-	22645	22665	53	02946	24427
390	5-	02845	57428	62	62747	55565	62	51745	55668	5-	02757	57527
382	52	02845	56528	52	21747	55468	50	21745	57555	5-	21957	25457
438				87	61434	24788	52	62635	22768	87	02755	22724
430	5-	02858	20528				52	62645	55608			
409	7-	27967	02833	54	02825	53527	5-	52528	53658	86	02745	59556

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........................
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	cir₀ c	cir₀ r₀	cr₀ cy
Croydon	cir₀ r₀	cir₀	cir₀ cid
Greenwich	c	cir₀	cir₀ r
Camden Square	c	c	*
Kensington	-	c	*
Hampstead	od	od	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time <0.1 24h. 22nd 23rd Min. Time

Stations	Temperature Day Max °F	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	59	57	Tr	1	0·1	*	*
Croydon	67	58	57	0·1	1	0·2	*	*
Greenwich	68	58	53	Tr	0·8	0·1	x	68
Westminster	68	59	57	0·1		*	91	81
Regents Park	67	58	54	Tr	0·3	*	77	62
Camden Square	67	59	51	Tr	0·3	*	*	64
Kensington	68	58	56	Tr	0·7	*	77	69
Hampstead	75	55	54	Tr	0·2	·	*	75

SECRET

Page 1

BRITISH SECTION

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

Friday 24th July 1942

No. 29,464.

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)	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)	10·9	+20	WNW	4	c	64	55	49	8	5	–	–	9+	9+	1500
	Croydon	11·1	+18	WNW	5	c	63	75	53	8	7	4	–	7-8	9	2000
	S. Farnborough	11·6	+16	W'N	4	c	65	55	50	8	7	7	–	7-8	9+	3000
	Boscombe Down	12·6	+14	WNW	5	c	62	65	51	8	8	–	–	7-8	7-8	2500
	Thorney Island	12·5	+14	W'N	6	c	66	55	51	9	4	–	–	7-8	7-8	2500
	Lympne	09·9	+26	SSE	4	c	63	65	52	8	8	–	–	7-8	7-8	1700
	Manston	09·5	+16	WNW	4	c	64	65	53	8	7	7	–	9	9+	2500
2	Shoeburyness	10·2	+20	W'N	4	c	66	55	50	8	5	3	–	7-8	9+	2500
	Felixstowe	08·5	+18	W	5	c	63	65	52	8	7	7	–	9	10	5000
	Gorleston	07·2	+28	W'N	4	c	63	75	54	7	5	–	–	9+	9+	1500
	Mildenhall	08·5	+22	W'N	4	c	62	75	52	8	5	–	–	4-6	10	1500
	Cranwell	07·6	+24	WNW	5	c	62	75	54	7	5	–	–	10	10	2500
3	Birmingham	10·5	+20	W	4	c	61	75	53	8	5	–	–	10	10	1500
	Upper Heyford	10·3	+22	W	5	c	62	65	51	9	7	–	–	4-6	9+	1800
4	Ross-on-Wye	12·0	+16	W	4	c	63	65	51	9	8	–	–	9+	9+	3000
5	Hartland Point	16·0	+20	WNW	4	c	59	85	55	8	5	–	–	9+	9+	2500
	Bristol	13·7	+20	W	5	c	61	75	53	9	5	–	–	10	10	2700
	Portland Bill	14·0	+6	W	5	c	62	92	59	8	5	–	–	10	10	4000
	Plymouth	16·8	+14	NW'W	4	c/r	63	65	50	8	5	–	–	10	10	1500
	The Lizard	18·2	+16	WNW	4	c	62	75	55	8	8	6	–	7-8	7-8	2000
	Scilly (St. Mary's)	18·3	+12	WNW	5	c	63	75	54	8	5	–	–	7-8	7-8	1500
	Guernsey															
6	Pembroke	15·4	+24	W'N	5	cq	59	85	53	8	8	3	–	7-8	9	2000
7	Holyhead (Valley)	11·8	+26	NW	6	b	65	65	54	8	8	6	–	Tr	1	1500
	Chester (Sealand)	10·5	+30	NW'W	6	c	62	75	53	8	8	–	–	7-8	10	3000
8	Manchester	09·7	+24	W'N	5	c/pr	58	85	54	7	2	6	–	7-8	9+	2000
10	Spurn Head	06·1	+30	WNW	5	c	62	75	54	7	2	7	–	4-6	9+	1500
	Catterick	07·2	+36	N'W	4	c	65	65	53	7	8	6	–	9	9+	1500
	Tynemouth	06·8	+32	N	5	c	56	85	52	8	8	3	–	4-6	7-8	2800
11	St. Abbs Head	07·6	+42	N	3	c	53	92	51	7	5	–	–	9+	9+	1500
	Leuchars	06·8	+26	E	3	pr	58	85	54	8	8	2	–	7-8	9+	2000
12	Renfrew (Abbots I.)	07·8	+34	NW	4	c	61	65	51	9	3	7	9	4-6	7-8	2000
	Eskdalemuir	07·6	+32	NNE	2	pr	55	85	50	8	5	–	–	9+	9+	900
	Point of Ayre	09·6	+28	NW'N	6	bc	60	75	53	8	2	4	–	1	2-3	1800
13A	Tiree	10·6	+20	NNW	3	c	58	65	47	9	1	3	5	1	7-8	3500
13B	Stornoway	08·5	+20	NW	3	c	53	75	46	8	5	7	–	7-8	10	2500
15	Dalwhinnie	07·8	+20	NNE	2	ir$_0$	52	92	49	6	5	–	–	10	10	1500
	Aberdeen	07·1	+22	NNW	4	bc	58	65	45	9	8	5	–	4-6	4-6	2800
	Wick	07·3	+24	NNW	2	pr	53	85	48	8	8	3	–	4-6	9	2500
16	Sumburgh	04·6	+22	NNW	5	pr	52	75	43	8	8	–	4	7-8	7-8	1200
17	Blacksod Point	15·2	+6	WSW	2	c	60	97	59	8	5	–	–	10	10	2500
18	Malin Head	11·3	+26	NNW	3	c/p	54	97	53	8	6	2	–	4-6	10	1500
	Aldergrove	11·9	+30	NW'W	4	c/d	60	75	50	8	3	7	–	4-6	9+	2500
19	Birr Castle	14·5	+14	W	2	c	63	65	51	8	5	1	–	7-8	9+	2500
20	Valentia Obsy.	18·6	+6	W	3	c	60	75	52	8	5	–	–	9+	9+	4000
	Roches Point	16·5	+12	NNW	6	bc	63	75	55	8	5	–	–	4-6	4-6	1500

OBSERVATIONS at 18h. 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)	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)	13·8	+12	WNW	3	bc	67	55	50	8	7	–	1	2-3	4-6	2500	1	*
	Croydon	13·9	+18	WNW	4	bc	66	65	55	8	1	4	–	2-3	4-6	2500	0	*
	S. Farnborough	14·2	+12	W	4	bc	66	65	52	8	7	7	1	4-6	7-8	2500	0	*
	Boscombe Down	15·5	+14	NW'W	4	c	63	65	53	8	7	–	–	2-3	7-8	2500	0	*
	Thorney Island	14·9	+10	W'N	4	c	65	65	54	9	5	–	–	4-6	9	2500	0	*
	Lympne	14·3	+14	W	3	c	64	65	53	8	7	–	–	9	9	2500	0	§3
	Manston	13·0	+14	W	3	c	65	75	55	8	5	–	–	9+	9+	6000	0	*
2	Shoeburyness	13·1	+12	W'N	3	c	67	65	52	8	7	4	–	7-8	9	4800	0	*
	Felixstowe	12·0	+14	W	3	c	64	75	54	8	5	2	–	9	10	5700	1	3
	Gorleston	11·7	+34	NW	2	ir$_0$	61	85	55	7	6	–	–	10	10	800	1	2
	Mildenhall	12·1	+18	WNW	4	c	64	65	53	8	5	7	–	7-8	9+	2000	0	*
	Cranwell	11·8	+20	WNW	4	c	63	75	53	7	5	3	–	9+	9+	3000	0	*
3	Birmingham	13·4	+16	NW	3	c	63	65	51	8	5	7	–	4-6	7-8	2500	1	*
	Upper Heyford	13·2	+14	W'N	5	c	65	65	52	9	7	3	–	7-8	9	3500	0	*
4	Ross-on-Wye	14·6	+14	W	4	bc	64	65	51	8	7	–	–	2-3	2-3	3500	0	*
5	Hartland Point	17·2	+4	WNW	4	c	60	92	57	8	2	4	–	Tr	9	1800	0	4
	Bristol	15·8	+10	W	5	c	62	85	56	8	5	–	–	7-8	7-8	3500	0	*
	Portland Bill	16·8	+22	W	4	c	61	92	59	8	5	–	–	10	10	4000	1	4
	Plymouth	17·8	+2	NW	3	c	63	75	53	8	8	6	–	7-8	7-8	2500	0	3
	The Lizard	18·9	−4	WNW	5	bc	61	85	56	8	2	6	–	4-6	4-6	2500	0	4
	Scilly (St. Mary's)	19·8	+2	WNW	4	c	61	75	54	8	5	–	–	9+	9+	1500	0	3
	Guernsey																	
6	Pembroke	16·9	+8	W'S	5	c	59	85	54	8	8	–	–	7-8	7-8	2000	0	4
7	Holyhead (Valley)	14·1	+14	WNW	4	c	64	65	53	9	8	7	–	Tr	7-8	2500	1	2
	Chester (Sealand)	13·7	+12	NW'W	3	c	61	75	54	8	8	3	1	7-8	7-8	3000	0	*
8	Manchester	13·0	+14	W	4	c	60	75	50	8	2	6	–	4-6	7-8	2500	1	*
10	Spurn Head	11·1	+16	NNE	4	c	57	85	53	7	5	7	–	7-8	9	2500	1	3
	Catterick	11·6	+8	E'N	1	z$_0$	56	85	52	6	5	–	–	9+	9+	1500	0	*
	Tynemouth	11·1	+12	NNE	3	c	54	85	50	8	5	–	–	9	9	2800	1	3
11	St. Abbs Head	09·8	+8	–	0	d$_0$d$_0$	52	97	52	5	5	–	–	10	10	1500	1	2
	Leuchars	09·3	+12	SE	2	c/pr	56	97	55	8	5	9	–	4-6	7-8	1500	1	*
12	Renfrew (Abbots I.)	10·4	+10	WNW	3	c	59	75	50	9	4	7	5	4-6	7-8	2500	1	*
	Eskdalemuir	09·7	+6	WNW	1	bc	58	65	45	8	5	3	–	1	4-6	2500	1	*
	Point of Ayre	12·7	+18	NW'N	4	c	59	75	50	8	5	7	9	2-3	9	3000	0	4
13A	Tiree	11·2	+4	W'S	2	c	54	85	48	8	5	–	–	9+	9+	2800	0	3
13B	Stornoway	09·3	+2	W	3	c	57	75	48	8	5	7	5	4-6	9	2500	1	1
15	Dalwhinnie	10·0	+10	NW	2	c	54	65	42	7	4	3	–	4-6	7-8	2500	1	*
	Aberdeen	09·3	+12	NNW	2	bc	57	75	49	8	8	–	6	2-3	2-3	2800	1	3
	Wick	09·0	+2	NW	3	c	54	75	55	9	8	3	–	7-8	9	2500	1	*
16	Sumburgh	06·5	+10	NW'W	4	pr	51	85	46	8	8	6	–	7-8	9+	1500	0	4
17	Blacksod Point	14·0	−14	SSW	2	rr	55	97	54	7	6	2	–	2-3	10	1500	1	2
18	Malin Head	12·2	0	W	4	c	56	75	48	8	6	2	–	7-8	10	2500	1	3
	Aldergrove	13·2	+2	NW'W	2	c	57	75	48	8	5	7	–	9+	10	2000	1	*
19	Birr Castle	15·1	+2	WNW	2	c	60	75	52	8	8	2	–	7-8	10	1500	0	*
20	Valentia Obsy.	17·5	−10	SW'W	4	c	59	85	55	8	5	2	–	4-6	9+	2500	0	4
	Roches Point	16·5	−6	SSW	3	bc	65	75	57	8	1	4	–	2-3	4-6	4000	1	3

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 23rd (39)	Weather 13h.—18h. 23rd (40)	Weather 18h. 23rd to 1h. 24th (41)	Weather 1h.–7h. 24th (42)
1	London (Kew)	cir$_0$cy	cbcy	bcyc	c
	Croydon	ccir$_0$	cbc	bcb	bccbc
	S. Farnborough	cy	cycbc	bcb	bcc
	Boscombe Down	c	c	bbc	bcmcz
	Thorney Island	ccy	cyc	cb	bc
	Lympne	c	c	cbcbbc	bbm$_0$c
	Manston	cbcc	c	bc	cbc
2	Shoeburyness	ccv	cvgcv	c	c
	Felixstowe	c	c	cbcbbc	c
	Gorleston	c	coir$_0$	bcm$_0$	bcc
	Mildenhall	cir$_0$	c	cbcb	c
	Cranwell	c	c	ccm$_0$	cm$_0$c
3	Birmingham	c	c		bcc
	Upper Heyford	ir$_0$pr$_0$c	c	bcc	cm$_0$irm$_0$
4	Ross-on-Wye	ccp$_0$cir$_0$	cvc	bcc	c
5	Hartland Point	c	c	bbc	ddodf
	Bristol	cv	cvc	bcbbcc	c,cid$_0$
	Portland Bill	c	c	bc	bcc
	Plymouth	ccir$_0$	c	cbcb	cd$_0$d$_0$m$_0$
	The Lizard	c	cbc	c	cdfo
	Scilly (St. Mary's)	cp$_0$bcc	cbcc	c	cid$_0$
	Guernsey				
6	Pembroke	cq	bcc	c	ffcir$_0$cq
7	Holyhead (Valley)	cbc	b,c	bcvcir$_0$	cm$_0$v
	Chester (Sealand)	cir$_0$m$_0$c	bcc	c	cr$_0$r$_0$c
8	Manchester	ir$_0$pr$_0$	c	cbcm$_0$	cm$_0$c
10	Spurn Head	c	prc	bc	cpr
	Catterick	cid$_0$c	cir$_0$cm$_0$	cm$_0$c	cr$_0$d$_0$d$_0$m
	Tynemouth	bccq	cpr$_0$c	cm$_0$c	oir$_0$ir
11	St. Abbs Head	corrm$_0$r$_0$c	cpr$_0$c	cr$_0$d$_0$c	cprom$_0$rroc
	Leuchars	cmpr	crpr$_0$c	c	cr$_0$fm$_0$
12	Renfrew (Abbots I.)	bccprc	cbcc	cr$_0$r$_0$c	cm$_0$r$_0$rrf
	Eskdalemuir	cpr$_0$	cpr$_0$bc	c	r$_0$rR
	Point of Ayre	pr$_0$cbc	bcc	r$_0$r$_0$o	rrr$_0$r$_0$
13A	Tiree	bcc	cid$_0$c	ccir$_0$	odrrr
13B	Stornoway	c	c	c	cpr
15	Dalwhinnie	oir$_0$co	oir$_0$c		cpr$_0$o
	Aberdeen	d$_0$z$_0$bcy	bccbc	bcc	cir$_0$
	Wick	cpr$_0$c	c	cvbc	c
16	Sumburgh	cbccpr$_0$	cpr$_0$	cor$_0$c	bc,c
17	Blacksod Point	c	r	r	r
18	Malin Head	pr	pr	r	r
	Aldergrove	cpr$_0$cid$_0$c	ccpr$_0$c	cr$_0$r$_0$d$_0$d$_0$Rr	bcRrrr$_0$d$_0$dc
19	Birr Castle	r	c		r d
20	Valentia Obsy.	d	bc	r	d
	Roches Point	c	bc	r	d

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Fresh Southwest winds veering west later; cloudy or dull; occasional slight rain or drizzle; rather close today.
5 S.W. England, 6 South Wales	Fresh or strong Southwest winds veering West to Northwest; dull with occasional rain or drizzle mostly slight; fairer periods probable later; rather close today
7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	Fresh Southwest winds, veering Northwest; overcast, occasional rain at first; then brighter periods but with occasional showers; rather cool.
12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland	Fresh to strong Southwest winds veering West to Northwest; cloudy, occasional rain at first; then brighter periods with some showers; rather cool.
14 Mid Scotland, 15 N.E. Scotland	Wind variable, light to fresh; dull, rain at times at first; then cloudy, with showers; cool.
16 Orkneys and Shetlands	Light variable winds; fair periods; perhaps a few light showers, rather cool
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	Winds veering Northwest, fresh rather gusty, strong locally on West and North coast at times; showers; brighter intervals; rather cool.

GENERAL INFERENCE

A depression near the Hebrides will move rather quickly east to maintain unsettled and rather cool weather generally.

FURTHER OUTLOOK

Fair in the southern half of the British Isles; rather showery and cool in the North.

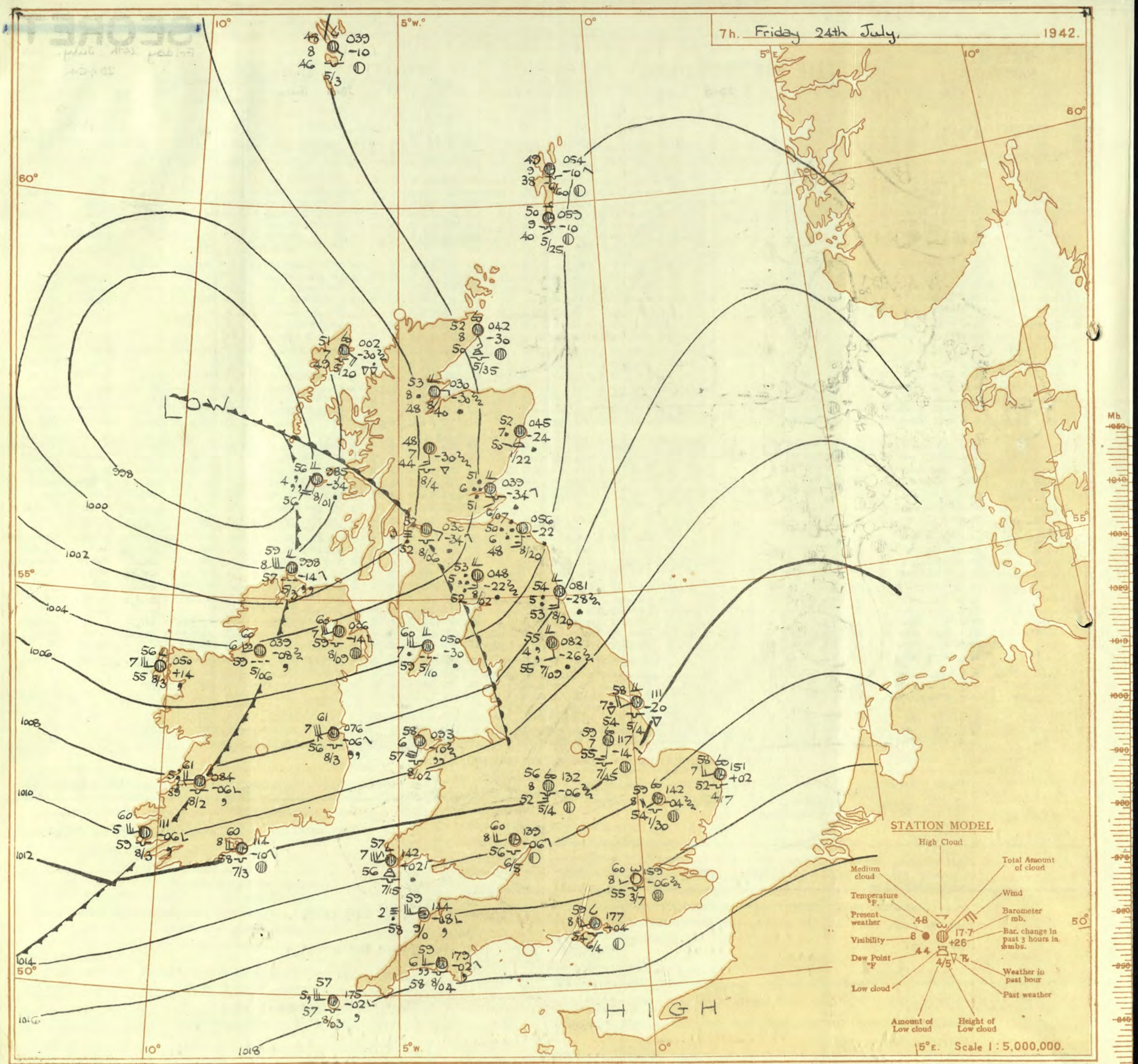
Gale warning in operation in districts 17, 20. Issued at 2330 G.M.T 23.7.1942

Forecasts issued at 10.30

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

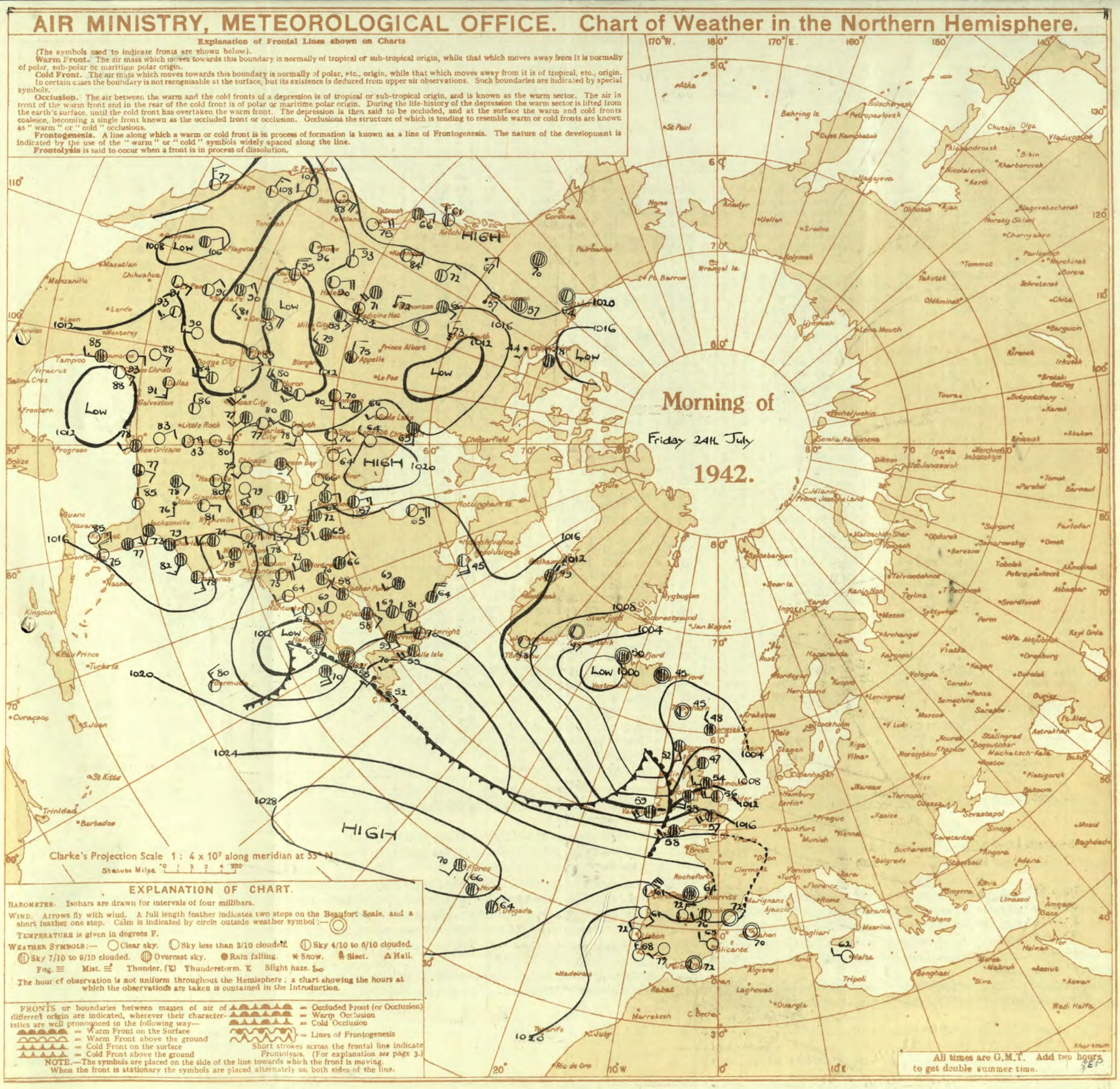
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday 24th July, 1942.



H.M.S.O. Press, Meteorological Office, 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.

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.

Page 4.

BRITISH SECTION

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

Friday 24th July 1942

No. 29464

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	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)	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)	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 23rd Hrs. (38)
1	London (Kew)	18	*	*	*	*	*	58	*	*	*	*	*	*	*	*	*	16·1	0	SW	3	c	59	75	51	8	5	-	-	9	9	2500	1	*	68	57	52	Tr	-	2·0
	Croydon	290	16·7	+8	WSW	4	bc	57	92	55	7	5	3	-	4-6	4-6	4000	15·9	-6	SW	1	bc	60	85	54	8	5	3	-	2-3	2-3	5500	0	*	66	55	53	0·1	-	3·3
	S. Farnborough	226	17·1	+6	W'S	3	b	55	92	53	8	5	-	-	Tr	Tr	3500	16·8	+2	WSW	3	c	57	85	53	8	5	7	-	4-6	9+	1200	0	*	66	54	50	-	-	2·8
	Boscombe Down	417	18·0	+4	SW'W	2	bc	53	97	51	7	5	4	-	2-3	2-3	4500	17·1	+2	SW	4	c	56	85	53	7	5	7	-	4-6	9	3500	0	*	65	50	45	-	-	4·1
	Thorney Island	10	17·7	+6	WNW	3	b	56	92	53	9	-	-	-	0	0	-	17·7	+4	WSW	4	c	59	85	54	8	5	4	-	9	9+	1500	0	*	69	54	48	-	-	*
	Lympne	283	17·2	+4	W	1	bc	54	92	52	7	5	-	-	4-6	4-6	4000	18·1	+10	W	1	c	56	92	54	8	5	3	9	7-8	9	7000	0	§3	68	50	*	-	-	3·1
	Manston	154	16·3	+10	WSW	1	bc	56	92	54	7	5	-	-	2-3	2-3	3500	15·7	-6	SW	2	c	59	85	55	8	5	3	-	7-8	7-8	6000	0	*	65	55	51	-	-	1·0
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16·6	+2	SW	3	c	60	85	55	8	5	3	-	7-8	9+	4000	0	*	68	58	54	-	-	1·4
	Felixstowe	12	15·9	+10	W'S	2	c	58	75	51	7	5	-	-	9	9	4700	15·6	0	WSW	3	c	61	85	55	7	5	7	-	4-6	9+	4000	1	3	65	53	51	-	Tr	0·9
	Gorleston	5	14·8	+2	W'S	2	z_0	56	92	53	6	-	4	-	0	2-3	-	15·1	+2	SW'W	3	c	58	85	52	7	5	7	-	4-6	9+	1700	0	3	64	53	50	Tr	0·5	0·9
	Mildenhall	15	15·1	+2	SW'W	3	bc	54	85	51	7	5	-	-	2-3	2-3	5700	14·2	-4	SW'S	4	c	59	85	54	8	5	7	-	Tr	9+	3000	0	*	65	53	45	Tr	Tr	1·7
	Cranwell	203	14·5	0	WSW	3	z_0	55	92	52	6	-	7	÷	0	10	-	11·7	-14	SSW	3	c	59	85	55	7	5	7	-	9+	9+	4500	0	*	*	52	46	-	-	3·0
3	Birmingham	538	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13·2	-6	S	3	c	56	85	52	8	5	7	-	7-8	10	1500	1	*	66	55	49	-	-	2·2
	Upper Heyford	408	15·9	+4	SW	3	c	55	92	52	7	5	1	-	4-6	9	5800	14·9	0	SSW	3	c/r	55	97	54	7	6	2	-	9	10	700	1	*	67	55	47	Tr	1	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13·9	-6	WSW	4	c	60	85	56	8	5	-	-	9	9	3000	0	*	66	57	56	Tr	-	1·7
5	Hartland Point	299	17·0	-8	W	4	bc	58	92	55	8	2	4	-	1	2-3	1500	14·4	-8	WSW	5	df	59	97	59	2	-	-	-	10	10	4150	1	4	61	57	55	-	0·5	2·5
	Bristol	209	17·8	0	W	4	b	57	85	53	8	5	-	-	1	1	2500	16·1	-8	SW	3	id_0	58	85	54	8	5	-	-	10	10	1500	0	*	66	55	51	-	Tr	2·0
	Portland Bill	32	18·3	-4	W	3	bc	55	85	51	8	5	-	-	4-6	4-6	4000	17·5	0	SW	4	c	59	92	57	8	5	-	-	10	10	4000	1	3	62	57	*	-	-	*
	Plymouth	82	19·3	-2	SW	3	bc	55	97	54	8	5	3	-	2-3	2-3	2500	17·9	-2	SW'W	3	d.d.	59	97	58	6	5	-	-	10	10	400	1	3	64	55	49	Tr	Tr	2·5
	The Lizard	240	20·3	+6	W	3	c	57	92	55	8	8	2	-	7-8	9+	1500	18·3	-2	W	4	c/d	58	97	58	7	5	-	-	10	10	1000	1	4	64	55	*	-	0·5	9·7
	Scilly (St. Mary's)	163	20·2	-4	SW'W	3	c	58	92	55	8	5	-	-	7-8	7-8	1000	17·5	-2	WSW	5	id_0	57	97	57	5	5	-	-	10	10	300	1	4	65	56	*	Tr	Tr	3·7
	Guernsey	175																																						
6	Pembroke	142	16·4	-2	SW'W	5	c	57	85	53	7	8	-	-	7-8	7-8	2500	14·2	+4	WSW	6	cq	57	97	56	7	8	1	-	9+	10	1500	1	5	61	51	*	-	1	3·0
7	Holyhead (Valley)	32	13·2	-12	SSW	4	c	58	92	55	8	5	2	-	2-3	10	2500	09·3	-10	SSW	6	c/d	58	97	57	6	5	-	-	10	10	200	1	5	67	55	55	Tr	1	*
	Chester (Sealand)	16	13·6	-10	SW	2	c	58	85	54	7	5	7	-	7-8	10	3000	08·9	-28	SW	5	bc	63	85	57	8	5	3	-	4-6	4-6	5000	0	*	65	57	51	Tr	Tr	4·8
8	Manchester	235	13·6	-6	S'E	3	z_0	55	92	53	5	5	-	-	10	10	4000	09·6	-22	S	5	c	58	85	54	7	5	3	-	7-8	7-8	3500	1	*	64	53	50	1	Tr	*
10	Spurn Head	29	13·5	0	W'S	4	bc	56	85	50	7	1	-	-	4-6	4-6	4000	11·1	-20	SW'S	4	pr	58	85	54	7	5	2	-	7-8	10	1500	1	3	62	55	*	0·5	Tr	1·0
	Catterick	175	12·9	-2	W	2	c	55	85	49	7	-	7	-	0	7-8	-	08·2	-26	SSE	2	d.d.	55	97	55	4	6	2	-	9+	10	900	1	*	65	53	48	0·1	2	2·1
	Tynemouth	108	12·0	0	W	3	z_0	54	85	50	6	5	-	-	7-8	7-8	2500	08·1	-28	S	4	ir	54	97	53	5	-	2	-	10	10	2000	1	3	62	52	49	Tr	5	*
11	St. Abbs Head	280	10·0	-2	SW	1	c	50	92	48	7	5	-	-	9	9	2500	05·6	-22	S	3	RR	50	97	48	6	6	-	-	10	10	2000	1	2	58	49	*	2	5	*
	Leuchars	36	09·0	-8	-	0	c	50	92	48	7	5	3	-	7-8	9+	3000	03·9	-34	SE	2	RR	51	97	51	6	5	2	-	9	10	700	1	*	61	49	43	3	4	1·3
12	Renfrew (Abbots I.)	19	09·7	-14	SW'W	1	c/r	53	85	49	7	5	-	-	10	10	2500	03·0	-34	E'S	2	rf	52	92	52	3	5	-	-	10	10	600	1	*	65	49	49	1	11	5·4
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	04·8	-22	S	3	RR	53	97	52	5	-	2	-	10	10	200	1	*	62	48	46	0·4	10	2·8
	Point of Ayre	30	11·4	-16	S'W	1	b	54	97	52	7	-	2	-	10	10	3000	05·0	-30	W'S	6	ir_0	60	97	59	7	6	2	-	7-8	10	1000	1	3	62	53	*	0·2	8	3·8
13A	Tiree	22	06·7	-34	SW'S	4	ir_0	53	85	50	7	5	2	-	7-8	10	2000	98·0	-30	SW'S	4	rr	57	97	56	4	-	2	-	10	10	100	1	5	59	52	*	Tr	2	5·8
13B	Stornoway	80	06·8	-16	S	1	c	52	92	50	7	5	7	-	7-8	9+	2500	00·2	-30	ESE	4	c/pr	51	92	49	7	5	7	-	9-8	10	2000	1	2	59	51	*	-	1	4·7
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	02·5	-30	SSE	3	o	48	85	44	7	5	-	-	10	10	1500	1	*	57	45	41	1	Tr	3·[illegible]
	Aberdeen †	79	09·3	-10	SW	1	c	47	92	46	8	5	7	-	7-8	9	3500	04·5	-24	SSW	2	ir_0	52	92	50	7	1	7	-	Tr	10	2200	1	2	60	51	46	0·1	Tr	3·9
	Wick	114	08·4	-10	-	0	bc	47	92	46	8	5	3	-	2-3	4-6	4000	04·2	-30	SE	3	c	52	92	50	8	8	7	-	7-8	10	3500	1	*	54	45	38	0·2	-	*
16	Sumburgh	19	07·3	0	WNW	3	c	49	75	43	8	5	-	-	9	9	1800	05·9	-10	SSE	2	c	50	65	40	9	5	-	8	7-8	9	2500	0	3	55	46	37	Tr	0·3	5·6
17	Blacksod Point	18	05·8	-26	SSW	5	RR	59	97	58	7	-	2	-	10	10	800	04·3	+6	SW'W	5	o/r	57	97	55	6	5	-	-	10	10	800	2	4	61	53	*	0·5	15	*
18	Malin Head	84	05·3	-50	S'E	4	RR	53	92	51	5	-	2	-	10	10	1500	00·3	-12	SW	5	id_0	59	92	57	8	6	2	-	7-8	10	800	2	3	58	52		2	19	1·1
	Aldergrove	268	09·3	-32	S'E	1	RR	53	92	51	5	5	-	-	10	10	500	03·6	-14	SW	5	c	60	92	59	7	5	-	-	10	10	500	1	*	63	52	52	0·5	15	0·0
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	07·5	-10	SW	3	c	60	97	59	7	6	2	-	7-8	10	800	1	*	66	56	54	Tr	2	1·7
20	Valentia Obsy.	30	13·7	-14	SW'W	4	id_0	59	97	58	6	5	-	-	10	10	1500	11·0	-6	SW'W	5	d.d.	60	97	59	6	5	-	-	10	10	800	1	5	63	57	57	Tr	3	3·7
	Roches Point	22	14·1	-24	SSW	4	id_0	57	97	56	7	5	-	-	10	10	800	11·8	-6	WSW	5	c/d	60	92	58	8	5	5	-	9+	9+	800	1	4	67	57	*	-	0·4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 23rd July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 24th July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	86	02954	29425	4-	02956	26486	53	01853	24324	87	02961	10217
115							53	02944	20225			
203				8-	02957	30227	55	02954	16325			
206	5-	02976	28166	76	02965	28225	53	02864	00016	02	61868	08168
210	77	02846	30326	83	02964	06287	57	02863	20226	07	02878	12328
220				53	02854	25216						
230	76	01954	26385	73	02955	24326	52	61956	00068	5-	58635	12168
245	57	02965	30366	54	22865	18365	53	02863	00016	52	64634	20268
260	27	02744	15168	87	01853	09265	04	02790	25325	62	64546	05168
278	53	01843	59714	57	02947	28427	5·	62848	14368	67	22624	19368
279	84	02854	61457	83	01964	24315	52	02875	22317	62	64525	52468
285	27	25635	26487									
288	62	52434	30428	5-	05658	05258	07	01790	16214	52	22665	16468
575	83	02856	30427	47	02862	26428	52	64746	12368	62	52635	22258
301							52	52745	24358	5-	21644	20457
321	87	02755	26486	84	02765	28426	03	05690	24227	57	61634	19467
299	8-	25756	28466	47	02744	30414	40	01753	30213	5-	62448	20268
292	87	10954	27327	83	22655	28166	5·	01754	21284	52	02545	15368
310	--	63628	24468				0					
614	8-	05656	57528	25	01761	26323	07	05690	22114	57	05664	20328

III	13h. G.M.T. 23rd July $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 24th July $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	73	01853	60353	73	02964	28325	52	61854	21268	5-	51628	53658
334	--	03657	24328							--	64437	28468
340	2-	02957	28487	26	01964	30325	5-	02866	18216	53	01995	20262
136	5-	02768	23628	52	01757	32368	50	00773	22263	57	61655	20327
336	57	22756	28268	23	01754	28415				52	21656	20358
350	51	02846	24568	26	01853	26463	57	02783	22326	52	51756	51467
368	5-	02744	57567	54	01863	55423	5-	02856	26426	5-	52648	22368
379	5-	02948	24428	50	01964	24324	50	01855	24215	5-	22728	22468
390	7-	02858	59558	14	01764	26454	03	05690	22415	57	05676	21327
382	72	02955	23428	77	01954	26314	03	00790	22213	52	02864	18328
438	67	14744	22727	5-	02756	22426				54	02734	24416
430	5-	02966	22426	50	02865	24425	00	00790	24100	54	02745	22225
409	7-	02858	25528	57	01842	24414	50	01844	20314	5-	52608	20558

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 24 hours ended 7h.
Kew	cifocy	cbcy	bcyc	Max. Time
Croydon	ccifo	cbc	bcb	<0·1 whole period
Greenwich	c	cbcy	bcc	Min. Time
Camden Square	c	c	*	
Kensington	cbcc	bc	*	
Hampstead	od	bcp	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	68	57	52	Tr	-	2·0	*	*
Croydon	66	55	53	0·1	-	3·3	*	*
Greenwich	68	56	48	-	-	3·2	57	65
Westminster	68	57	55	-	-		79	87
Regents Park	69	56	53	-	-		65	74
Camden Square	69	57		-	-	*	*	72
Kensington	69	56	51	-	Tr		60	76
Hampstead	67	54	51	Tr	Tr		*	86

Page 1

BRITISH SECTION

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

~~SECRET~~

Saturday 25th July 1942

No. 29465

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)	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)	14·2	-12	SW	4	c	67	75	58	8	8	-	-	9+	9+	2500
	Croydon ...	16·4	-2	SW	5	bc	66	85	61	8	2	6	-	4-6	4-6	1400
	S. Farnborough	14·7	-10	SW	5	c	70	65	58	8	7	-	-	7-8	7-8	2000
	Boscombe Down	16·0	-4	SW'S	5	c	69	65	58	8	2	-	-	7-8	7-8	2000
	Thorney Island	16·6	-6	WSW	4	c/d	65	75	57	8	5	-	-	10	10	800
	Lympne ...	17·5	-2	SW	4	c	61	85	57	8	5	-	-	10	10	700
	Manston ...	15·4	-2	SW'W	4	c	67	75	58	8	5	-	-	7-8	7-8	2500
2	Shoeburyness ...	15·0	-4	SSW	5	c	65	75	57	8	5	-	-	9+	9+	2500
	Felixstowe ...	13·7	-14	SW	5	c	69	65	57	7	5	-	-	9	9	4100
	Gorleston ...	12·9	-8	SW'S	4	bcq	68	65	57	7	4	-	-	4-6	4-6	2500
	Mildenhall ...	11·8	-14	SW	5	c	70	65	58	8	5	-	-	7-8	7-8	2500
	Cranwell ...	08·5	-14	SW'S	6	bc	73	65	58	8	5	3	-	4-6	7-8	2500
3	Birmingham ...	11·0	0	SW	4	c	68	65	56	8	8	7	-	7-8	9	2500
	Upper Heyford	12·3	-10	SW	5	bc	71	55	54	8	5	3	-	2-3	4-6	2500
4	Ross-on-Wye	12·8	0	W'S	5	c	66	65	55	8	5	-	-	9	9	3500
5	Hartland Point	14·5	+2	WSW	5	c/f	59	97	59	7	5	2	-	4-6	10	800
	Bristol ...	15·0	-6	W	5	c	70	65	57	8	7	-	-	7-8	7-8	1500
	Portland Bill ...	16·3	-14	SW	4	c	61	92	59	8	5	-	-	10	10	4000
	Plymouth ...	17·2	-2	WSW	4	ir₀	61	92	58	8	7	-	-	9+	9+	2000
	The Lizard ...	17·5	-4	W'S	5	c/d	59	97	59	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	17·3	0	SW'W	2	c	63	85	58	8	5	-	-	10	10	1500
	Guernsey ...															
6	Pembroke ...	12·8	-6	SW'W	6	cq	61	85	55	7	5	4	-	7-8	9	2000
7	Holyhead (Valley)	08·7	0	SSW	6	z₀	59	92	56	6	5	-	-	10	10	400
	Chester (Sealand)	08·9	+2	SSW	4	c/d	63	85	59	7	5	7	-	4-6	9	600
8	Manchester ...	08·9	-2	SSW	5	c/r	64	75	57	9	5	-	-	7-8	10	2000
10	Spurn Head ...	08·1	-12	SW	4	c	68	65	58	7	7	-	-	9+	9+	2500
	Catterick ...	05·9	-2	SW'W	6	c/d	67	75	59	9	5	7	-	7-8	7-8	2000
	Tynemouth ...	04·5	-10	WSW	4	c	66	85	60	8	8	-	-	9+	9+	2000
11	St. Abbs Head	00·6	-24	SW	3	c/f	63	92	61	7	5	4	-	7-8	9	2000
	Leuchars ...	98·7	-22	WSW	3	c/f	63	92	61	8	8	6	-	7-8	9	1500
12	Renfrew (Abbots I.)	01·4	+2	W	6	c	64	85	58	8	5	2	-	7-8	9	1400
	Eskdalemuir ...	01·0	-6	SW	6	c	62	85	59	8	2	-	-	9	10	900
	Point of Ayre ...	05·0	+8	W	6	c	64	85	60	8	8	7	3	4-6	9+	2500
13A	Tiree ...	99·7	+24	W'N	5	c/f	58	85	54	7	5	-	-	7-8	7-8	1500
13B	Stornoway ...	99·2	-40	SSW	5	id	57	97	57	7	5	2	-	7-8	10	1000
15	Dalwhinnie ...	98·6	-12	SW	3	c	58	85	52	8	8	-	-	4-6	4-6	2500
	Aberdeen ...	98·6	-20	S'W	3	c/f	55	97	54	6	5	-	-	10	10	700
	Wick ...	96·9	-30	SSE	5	c	56	85	52	8	5	7	-	7-8	9+	1500
16	Sumburgh ...	01·5	-26	SE	5	r₀r₀	50	92	48	6	5	2	-	9	10	1000
17	Blacksod Point	07·5	+12	WSW	4	c	61	97	60	8	8	-	5	7-8	7-8	2500
18	Malin Head ...	03·1	+28	W'N	7	id₀	58	85	53	7	9	2	-	7-8	9+	800
	Aldergrove ...	05·0	+18	W'S	5	c	63	75	58	8	8	7	-	4-6	9	2000
19	Birr Castle ...	08·3	+6	SW	3	c	64	75	56	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	11·2	+2	W'N	3	rr	57	97	56	6	5	2	-	4-6	10	800
	Roches Point	10·6	-6	W'S	4	c	62	92	60	8	5	-	-	9+	9+	1500

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. °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)	13·2	-2	SW	4	bc	68	75	58	8	7	-	-	4-6	4-6	2500	1	*
	Croydon ...	14·0	-6	SW'W	5	b	64	85	59	8	1	-	-	2-3	2-3	2000	0	*
	S. Farnborough	13·5	-8	SW'S	5	bc	67	75	57	8	7	-	-	1	1	2000	0	*
	Boscombe Down	13·6	-6	SSW	5	bc	66	70	58	8	2	-	-	4-6	4-6	2500	0	*
	Thorney Island	15·2	-10	SW	5	c	62	85	58	8	5	-	-	9+	9+	1500	0	*
	Lympne ...	16·1	-8	WSW	5	c	61	85	56	8	5	-	2	10	10	900	0	§
	Manston ...	13·6	-14	SW	5	b	64	75	57	8	1	-	-	2-3	2-3	1500	0	*
2	Shoeburyness ...	13·5	-8	SSW	5	b	67	75	58	8	5	-	-	Tr	Tr	3200	0	*
	Felixstowe ...	12·1	-10	SSW	5	b	68	75	58	7	-	-	-	0	0	-	1	4
	Gorleston ...	11·0	-10	WSW	3	bc	74	75	57	7	1	-	-	4-6	4-6	800	0	4
	Mildenhall ...	10·3	-6	WSW	5	b	72	55	55	9	1	4	-	1	2-3	3000	0	*
	Cranwell ...	08·7	-2	WSW	4	c	67	75	58	8	5	-	-	9+	9+	2000	0	*
3	Birmingham ...	10·2	-2	SSW	3	c	65	75	57	8	5	-	-	10	10	1500	1	*
	Upper Heyford	12·3	0	WSW	5	bc	67	65	55	8	5	4	-	4-6	4-6	2400	0	*
4	Ross-on-Wye	11·8	-8	SW'W	5	cq	63	75	56	8	5	-	4	7-8	9	3000	0	*
5	Hartland Point	12·8	-6	WSW	5	c	60	92	58	7	5	2	-	4-6	9+	1000	0	5
	Bristol ...	14·2	-6	WSW	4	c	65	75	54	8	4	-	-	9+	9+	2500	0	*
	Portland Bill ...	15·1	-8	SW	4	cq	60	85	56	8	5	-	-	7-8	7-8	4000	1	4
	Plymouth ...	15·7	-6	SW'W	4	z₀	61	85	57	7	7	-	-	9+	9+	2300	0	4
	The Lizard ...	15·9	-8	WSW	4	c	61	92	59	8	8	2	-	7-8	10	1500	0	4
	Scilly (St. Mary's)	14·9	-14	SW	4	bc	62	85	57	8	5	4	3	2-3	4-6	1200	0	4
	Guernsey ...	11·4	-6	SW														
6	Pembroke ...	11·4	-6	SW'W	6	ir₀	60	97	59	6	8	-	-	10	10	1500	1	5
7	Holyhead (Valley)	07·9	-8	SW'S	6	rr	58	97	57	5	5	2	-	9+	10	500	1	5
	Chester (Sealand)	08·7	0	SW'W	3	c	63	85	57	7	5	-	-	9	10	1200	1	*
8	Manchester ...	08·5	-4	SSW	4	c/r	63	85	58	8	5	6	-	9	9+	2500	1	*
10	Spurn Head ...	07·9	-2	WSW	5	c	66	75	57	7	7	-	-	9	9	2500	0	4
	Catterick ...	06·0	0	WSW	3	bc	65	75	61	8	1	4	-	2-3	4-6	2000	1	*
	Tynemouth ...	04·2	+4	WSW	5	cq	68	65	54	7	2	3	-	4-6	7-8	1500	1	3
11	St. Abbs Head	01·6	+16	W	5	c	61	65	51	9	4	4	-	4-6	7-8	2500	0	4
	Leuchars ...	99·9	+8	W	6	c	62	85	56	9	2	-	8	2-3	7-8	2200	1	*
12	Renfrew (Abbots I.)	02·7	-4	W	5	c	59	85	55	8	8	1	-	4-6	7-8	2000	1	*
	Eskdalemuir ...	02·9	+2	W'S	4	bc	59	75	49	8	5	7	1	2-3	4-6	2200	1	*
	Point of Ayre ...	05·7	0	W	4	c	62	75	56	8	8	7	6	1	9+	3000	1	3
13A	Tiree ...	01·2	-2	WSW	4	bc/pr	56	85	49	8	8	7	-	4-6	4-6	1800	1	5
13B	Stornoway ...	96·3	+20	WSW	5	c	57	92	54	8	2	6	-	4-6	7-8	3000	1	3
15	Dalwhinnie ...	00·2	+6	W	3	pr	52	85	49	7	5	-	-	9+	9+	1500	1	*
	Aberdeen ...	97·6	+8	WNW	4	c	66	55	50	9	8	9	4	1	7-8	2900	0	4
	Wick ...	95·2	-2	SW	5	bc	61	75	53	9	2	3	5	2-3	4-6	3000	1	*
16	Sumburgh ...	96·2	-26	SE'E	6	rr	52	97	52	5	6	2	-	9+	10	500	1	4
17	Blacksod Point	07·3	0	WSW	5	c/r	55	97	54	8	9	2	-	4-6	9+	1500	1	4
18	Malin Head ...	02·9	-8	WSW	7	c/pr	55	85	50	8	9	2	-	4-6	7-8	2500	1	
	Aldergrove ...	05·3	-2	W	4	bc	61	65	58	9	7	-	8	7-8	7-8	3000	1	*
19	Birr Castle ...	05·5	-2	SW	3	c	62	75	54	8	3	8	-	2-3	7-8	1500	1	*
20	Valentia Obsy.	11·9	+6	W'N	3	b	53	85	49	9	2	-	-	2-3	2-3	2500	1	3
	Roches Point	09·6	-8	WNW	4	c/d	61	92	59	8	5	-	-	9	9	1500	1	*

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 24th (39)	Weather. 13h.—18h. 24th (40)	Weather. 18h. 24th to 1h. 25th (41)	Weather. 1h.—7h. 25th (42)
1	London (Kew)	d₀r₀d₀c	cbc	bcbw	cwid₀c
	Croydon ...	bccbc	bcb	bbc	bceid₀
	S. Farnborough	cid₀bc	c,b	bbcc	cbcir₀id₀c
	Boscombe Down	c	bcc	bcc	cid₀d₀d₀c
	Thorney Island	cid₀c	ccid₀	bb	ceid₀
	Lympne ...	bcc	c	cir₀c	c
	Manston ...	cbcc	c,pr₀,b	b,c	cbcc
2	Shoeburyness ...	bccir₀c	cbcb	bcc	c
	Felixstowe ...	ccir₀c	cccb	bbcb	c
	Gorleston ...	cir₀bcq	bcqy	bcycbc	cbc
	Mildenhall ...	ccidc	cbcycy	bybcc	cbcc
	Cranwell ...	cbc	bcc	cbcd₀rr	crrcbc
3	Birmingham ...	cbc	cbcc	cir	c
	Upper Heyford	cir₀cb	bcycz	c	id₀m₀bc
4	Ross-on-Wye	id₀cc	cq	cqc	bubc
5	Hartland Point	d₀id₀d₀fc	c	idoddc	cbcc
	Bristol ...	cd₀m₀cv	cbcc	cir₀cr₀r₀	cbc
	Portland Bill ...	bc	cc	c	oc
	Plymouth ...	pd₀d₀cir₀	cir₀c	cid₀m₀	cbc
	The Lizard ...	cid₀c	cc	cmofc	ffocw
	Scilly (St. Mary's)	cid₀c	cbc	cid₀fc	cbcc
	Guernsey ...				
6	Pembroke ...	cq	cqir₀m₀	cb	bc
7	Holyhead (Valley)	cm₀	cir₀r₀m₀	prm₀m₀bc	cbc
	Chester (Sealand)	cd₀d₀m₀	cid₀c	crb	b
8	Manchester ...	bccir₀	cir₀	cm₀	bcbbc
10	Spurn Head ...	c	opr₀c	c	c
	Catterick ...	cid₀c	bc	bccbc	bc
	Tynemouth ...	cir₀mc	cq	cqbc	bc
11	St. Abbs Head	crr₀m₀cir₀	cbcc	bccbc	cbcb
	Leuchars ...	id₀rm₀c	cbccv	cvbccb	crbcpr₀
12	Renfrew (Abbots I.)	cm₀d₀d₀c	cpr₀c	cr₀r₀rrcbc	cir₀pr₀c
	Eskdalemuir ...	Rrrc	bc	bcpr	cpr₀c
	Point of Ayre ...	cir₀c	c	cbcb	b
13A	Tiree ...	crrdrc	cprbc	bcpprq	cprbc
13B	Stornoway ...	cdrid	id bcc	cirbc	bccpr
15	Dalwhinnie ...	cird₀c	cpr₀		cir
	Aberdeen ...	cr₀d₀	tfc	cybc	bcb
	Wick ...	"cbc	bcc	bcc	cbc
16	Sumburgh ...	cciir₀r₀m	crrm₀	crrbcm₀c	bc
17	Blacksod Point	c	T	c	bc
18	Malin Head ...	T	pr	pr	pr
	Aldergrove ...	cid₀m₀c	bccbc	bccpr₀c	cpvc
19	Birr Castle ...	r	c		c
20	Valentia Obsy.	T	r	pr	bc
	Roches Point	d	r	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 25th July 1942.

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England	Light winds mainly from Southwest to West; fair or fine; average day temperature.
6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Winds Westerly, fresh to moderate, decreasing; variable sky with some bright periods; some local showers: rather cool.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Fresh to strong Westerly winds, moderating; cloudy, showery; some brighter intervals: cool.
16 Orkneys and Shetlands	As 13A-15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light to moderate Westerly winds; fair periods, local showers especially in the North; mainly rather cool.

GENERAL INFERENCE

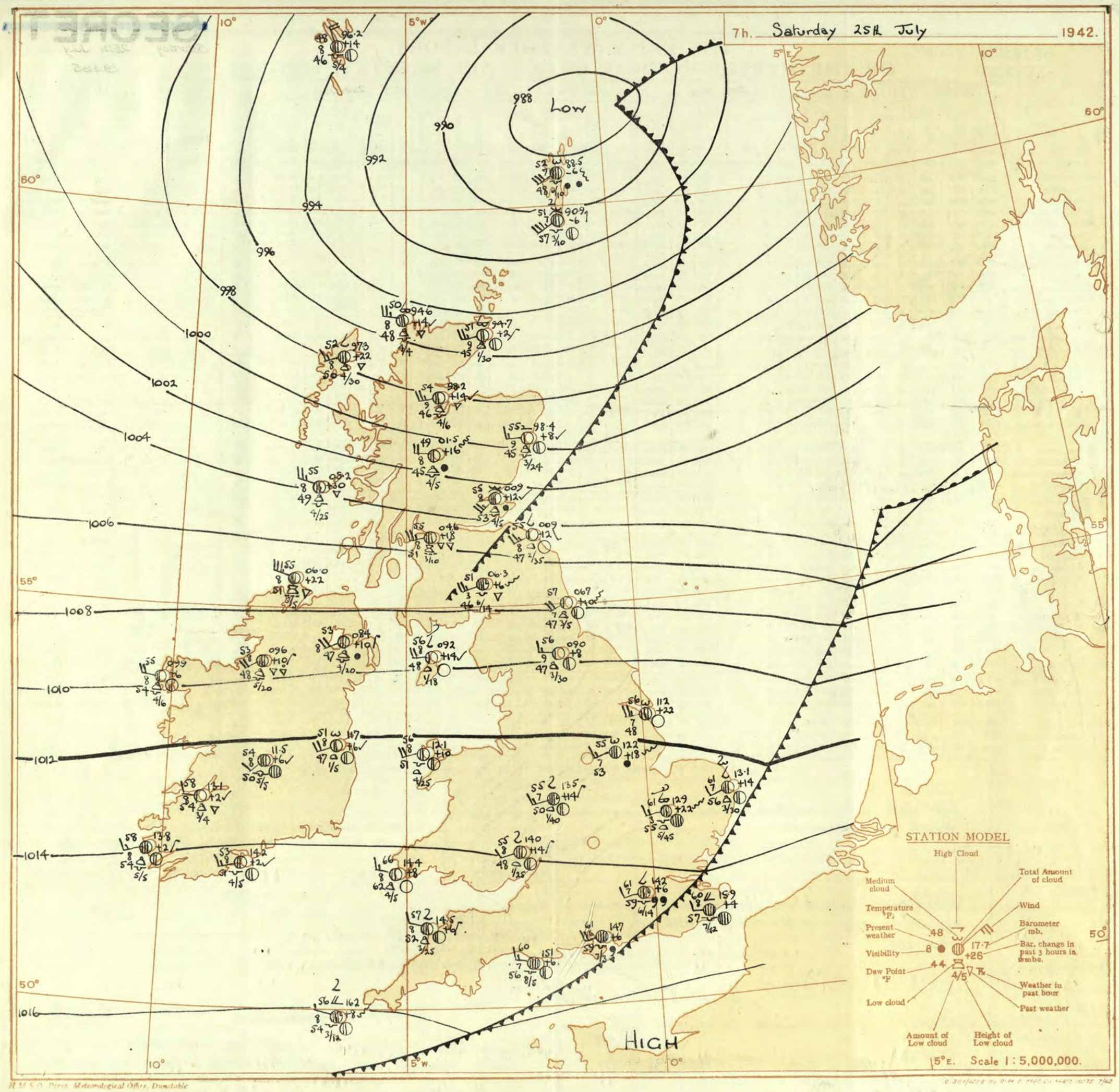
A deep depression near the Shetlands will move slowly northeast and will begin to fill up. In Southern England weather will be generally fair with mainly average day temperatures, but elsewhere rather showery cool conditions will be maintained.

FURTHER OUTLOOK

Rather unsettled type probably continuing but bright periods in many districts, especially in the South. Gale warning in operation in district 16 issued at 11.15 G.M.T 25/7/42.

Forecasts issued at 10·30h.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press. Meteorological Office, 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.

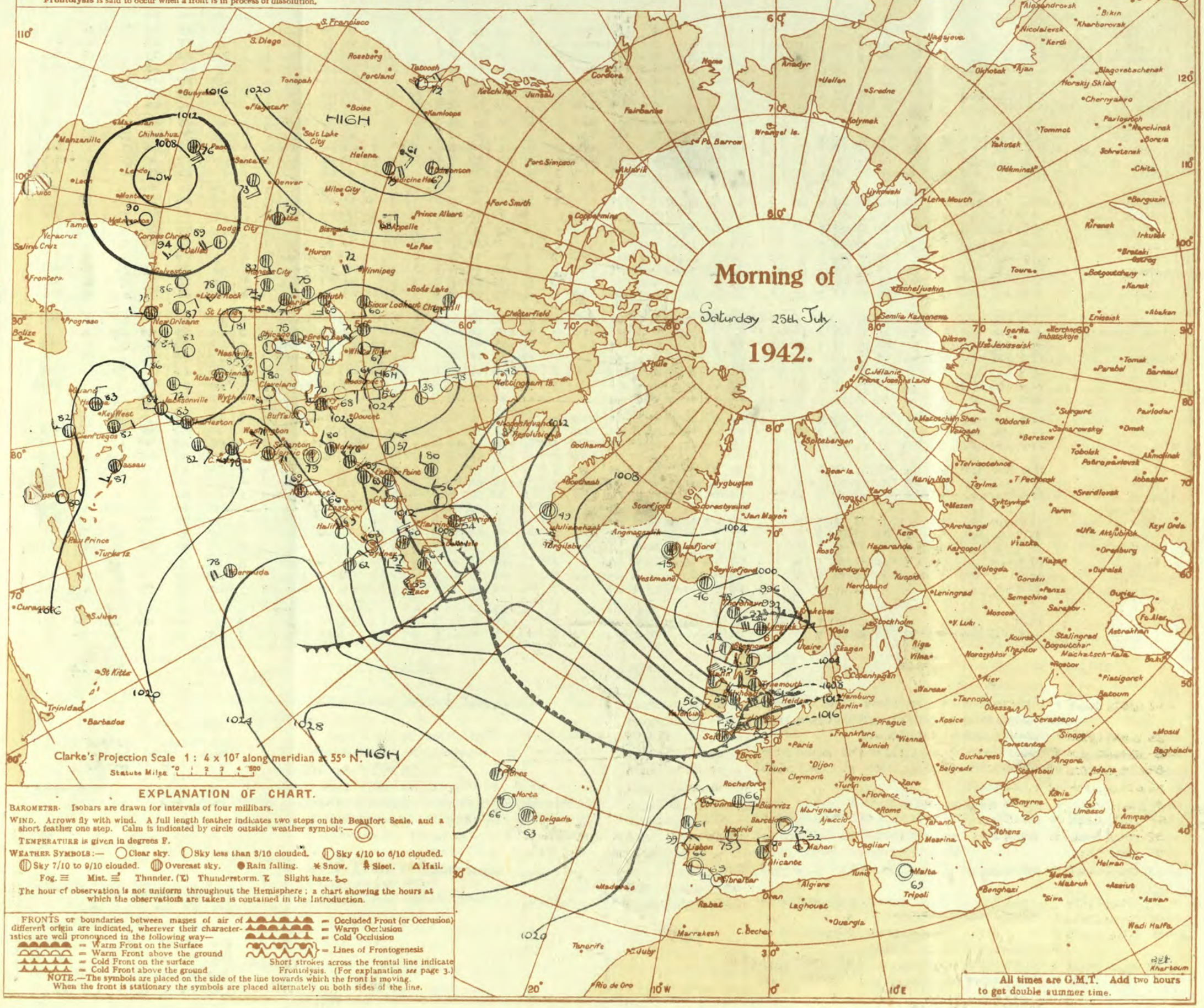
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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.



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.

BRITISH SECTION

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

Saturday 25th July 1942

No. 29465

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)	°F. Dew Point (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	*	*	*	*	*	60	*	*	*	*	*	*	*	*	*
	Croydon	290	13·7	-2	SW'W	4	bc	58	92	55	7	5	3	-	2-3	4-6	3000
	S. Farnborough	226	13·6	0	SW	4	c	59	85	55	8	5	2	-	4-6	9+	2800
	Boscombe Down	417	14·0	-2	ESE	4	c	59	85	55	8	5	-	-	9+	10	1300
	Thorney Island	10	14·6	-4	WSW	4	c/r	61	85	53	8	5	-	-	9+	9+	1500
	Lympne	283	15·8	+2	WSW	4	c	58	85	55	8	5	7	-	7-8	9+	1200
	Manston	154	13·5	0	WSW	4	bc	59	85	54	7	5	-	-	7-8	7-8	1800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	12·3	-2	SW'S	5	b	60	85	56	7	-	3	-	0	Tr	-
	Gorleston	5	11·8	0	SW'W	3	bc	59	85	53	7	5	-	8	2-3	4-6	2500
	Mildenhall	15	10·9	+2	SSW	4	c	60	85	56	8	5	3	-	1	9+	4000
	Cranwell	203	08·6	-2	W'S	3	rr	60	92	59	6	5	-	-	10	10	1300
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	11·6	-2	SW	5	z.	61	85	55	6	5	-	-	10	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	13·2	+12	SW'W	3	c/d	58	97	57	8	5	2	-	7-8	7-8	800
	Bristol	209	13·5	-6	SW'W	4	r.r.	60	92	48	6	5	2	-	4-6	10	1200
	Portland Bill	32	14·3	-4	SW	4	c	58	92	56	7	5	-	-	10	10	2500
	Plymouth	82	15·0	-6	WSW	4	id.	59	97	58	6	5	2	-	9	10	600
	The Lizard	240	15·0	-6	WSW	4	f+	59	97	59	3	5	-	-	10	10	700
	Scilly (St. Mary's)	163	15·2	+6	NW'W	3	c	56	97	55	7	5	-	-	10	10	800
	Guernsey	175															
6	Pembroke	142	13·0	+18	WNW	4	bc	55	97	55	8	1	-	-	2-3	2-3	2500
7	Holyhead (Valley)	32	10·3	+14	W'N	5	c	55	75	48	8	5	-	7	Tr	9+	3000
	Chester (Sealand)	16	09·7	+14	W	3	b	57	75	48	8	5	-	-	Tr	Tr	2500
8	Manchester	235	09·3	+14	WSW	3	bc	54	97	54	7	5	-	-	2-3	2-3	4000
10	Spurn Head	29	07·8	+6	SW	5	c	61	85	48	7	3	4	-	4-6	7-8	2500
	Catterick	175	06·9	+8	WSW	2	bc	57	85	53	7	8	-	-	4-6	4-6	2000
	Tynemouth	108	05·3	+6	W	4	bc	58	75	50	7	8	-	-	4-6	4-6	2500
11	St. Abbs Head	280	02·4	-2	WSW	4	bc	54	75	43	8	7	-	-	2-3	2-3	2500
	Leuchars	36	01·3	+6	SW	5	bc	51	92	49	8	5	-	-	2-3	2-3	2500
12	Renfrew (Abbots I.)	19	03·2	+4	SW'W	3	bc/r	51	92	48	6	5	2	-	4-6	4-6	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	06·8	+10	W'N	6	b	54	75	47	8	-	4	-	0	Tr	-
13A	Tiree	22	98·5	-12	W	5	PR	51	92	49	7	3	-	-	9	9	1200
13B	Stornoway	80	94·2	+10	WSW	3	bc/r	48	97	47	7	5	7	-	4-6	4-6	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	98·3	-10	SW	3	c	57	85	52	9	8	-	-	7-8	7-8	2500
	Wick	114	95·3	-6	SW	4	c	50	85	46	9	5	-	-	9	9	3500
16	Sumburgh	19	92·2	-2	WSW	6	c	52	85	47	8	5	-	-	7-8	7-8	1800
17	Blacksod Point	18	08·9	+10	WSW	5	c	55	97	55	8	9	-	-	7-8	7-8	1500
18	Malin Head	84	02·6	-2	W'N	8	bc	55	85	51	8	9	-	-	4-6	4-6	2500
	Aldergrove	268	07·8	+16	WSW	4	c	52	85	48	8	5	-	-	7-8	7-8	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·8	+2	W'N	3	b	56	85	52	8	5	-	-	1	1	2500
	Roches Point	22	13·6	+12	W'S	3	bc	54	85	50	8	-	-	5	0	4-6	-

OBSERVATIONS at 7 hr. G.M.T. 25th 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)	°F. Dew Point (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)	14·1	+10	WSW	2	c	63	85	57	8	8	3	-	9	9+	1500	1	*
Croydon	14·2	+6	WSW	2	c/d	61	97	59	7	5	4	-	9	9+	1400	0	*
S. Farnborough	14·0	+10	W	3	c	62	85	57	8	5	7	-	4-6	9+	1600	0	*
Boscombe Down	14·8	+12	WNW	3	bc	57	85	53	8	5	3	2	4-6	7-8	3500	0	*
Thorney Island	14·7	+6	WSW	4	id.	61	92	59	6	5	-	-	9+	10	800	0	*
Lympne	15·9	+4	W	2	c	60	92	57	7	5	2	-	9+	10	200	0	§5
Manston	14·4	+12	SW'W	3	c	62	85	58	8	5	4	-	9	9+	1000	0	*
Shoeburyness	14·4	+8	SW	3	c	62	85	58	8	5	2	-	9+	10	1400	0	*
Felixstowe	13·7	+12	SW	2	c	62	85	57	7	5	7	-	9+	9+	1500	1	4
Gorleston	13·1	+14	W'S	2	bc	61	85	56	7	2	4	9	2-3	7-8	3000	0	2
Mildenhall	12·9	+22	W'S	3	c	61	85	55	8	7	7	2	7-8	9+	4500	0	*
Cranwell	12·2	+18	W'S	3	bc	55	92	53	7	-	3	6	0	7-8	-	1	*
Birmingham	13·8	+10	SW	3	c	54	85	50	8	-	-	7	0	9+	-	1	*
Upper Heyford	13·7	+14	W'S	3	bc	56	75	49	9	1	4	4	Tr	2-3	2500	0	*
Ross-on-Wye	14·0	+14	SW'W	2	c	55	75	48	8	1	-	6	Tr	7-8	2500	0	*
Hartland Point	14·5	+6	WNW	2	c	57	85	52	8	2	-	6	2-3	7-8	2500	1	3
Bristol	15·2	+12	W	2	bc	56	85	51	7	5	-	2	Tr	7-8	2500	1	*
Portland Bill	15·1	+6	W	3	c	60	92	56	7	5	-	-	10	10	2500	1	4
Plymouth	15·5	+8	W'N	1	c	58	92	56	7	7	7	1	2-3	7-8	2000	0	2
The Lizard	15·9	+8	-	0	c	56	92	54	8	8	6	-	7-8	7-8	2000	1	4
Scilly (St. Mary's)	16·2	+8	W'N	1	c	56	97	54	8	5	2	6	2-3	9+	1200	1	3
Guernsey																	
Pembroke	14·4	+8	W'N	3	bc	66	85	62	8	2	-	-	4-6	4-6	2500	1	3
Holyhead (Valley)	12·1	+10	WSW	4	bc	56	85	51	8	7	-	-	4-6	4-6	2500	1	3
Chester (Sealand)	12·1	+16	SW	4	bc	56	65	46	8	8	-	9	2-3	4-6	3000	1	*
Manchester	11·6	+10	SSW	4	bc	53	85	48	7	1	-	5	1	7-8	3000	1	*
Spurn Head	11·2	+22	W'S	5	c	56	75	48	7	-	3	-	0	7-8	-	0	3
Catterick	09·0	+8	W'S	3	bc	56	75	47	9	2	-	-	2-3	2-3	3000	0	*
Tynemouth	06·7	+10	W	1	bc	57	75	47	7	2	-	-	2-3	2-3	2500	1	3
St. Abbs Head	00·9	-12	WSW	5	bc	55	75	47	8	1	4	-	1	2-3	3500	0	4
Leuchars	00·9	+12	SW	5	bc	55	92	53	8	8	6	-	4-6	7-8	2000	0	*
Renfrew (Abbots I.)	04·6	+18	W'S	5	c/pr	55	85	49	8	9	-	-	2-3	7-8	1000	1	*
Eskdalemuir	06·3	+6	SW'W	5	c	51	85	46	8	5	-	-	9	9	1400	1	*
Point of Ayre	09·2	+14	W	4	b	56	75	48	8	1	4	4	Tr	1	1800	0	4
Tiree	02·5	+30	WNW	5	bc	55	85	49	8	8	-	-	4-6	4-6	2500	1	5
Stornoway	97·3	+22	WSW	3	c	52	92	50	8	2	4	-	4-6	7-8	3000	1	1
Dalwhinnie	01·5	+16	W	4	bc	49	85	45	8	8	-	-	4-6	4-6	2500	1	*
Aberdeen †	98·4	+8	W	3	bc	55	65	45	9	8	-	5	2-3	2-3	2400	0	2
Wick	94·7	+2	WSW	5	bc	51	85	45	9	2	7	5	Tr	4-6	3000	1	*
Sumburgh	90·9	-6	SW	7	bc	51	92	47	7	5	6	6	2-3	7-8	1000	1	5
Blacksod Point	09·9	+6	W	4	bc	55	97	54	8	8	-	-	4-6	4-6	4000	1	3
Malin Head	06·0	+22	WNW	7	c	55	85	51	8	9	-	-	7-8	7-8	2500	1	5
Aldergrove	08·4	+10	SW'W	4	c	53	85	47	8	8	3	-	4-6	7-8	2000	1	*
Birr Castle	11·5	+6	SW	2	c	54	85	50	8	4	-	-	7-8	7-8	2500	1	*
Valentia Obsy.	13·8	+2	W'S	3	c	58	85	53	8	8	-	-	7-8	7-8	2500	1	4
Roches Point	14·2	+2	W'S	3	bc	53	92	51	8	5	-	-	4-6	4-6	2500	1	4

PAST 24 HOURS.

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)	Night 18h–7h mm. (37)	Sunshine 24th Hrs. (38)
London (Kew)	70	59	55	Tr	Tr	7·2
Croydon	71	57	54	-	0·1	8·3
S. Farnborough	73	58	53	-	Tr	8·0
Boscombe Down	72	56	55	Tr	0·4	7·3
Thorney Island	65	59	57	Tr	Tr	*
Lympne	66	58	*	-	-	4·3
Manston	70	56	54	Tr	-	7·9
Shoeburyness	71	58	53	Tr	-	7·4
Felixstowe	72	57	55	Tr	Tr	0·0
Gorleston	75	58	55	Tr	-	8·0
Mildenhall	75	58	*	Tr	-	8·5
Cranwell	*	52	48	-	2	5·0
Birmingham	69	51	46	-	1	4·2
Upper Heyford	73	54	51	Tr	Tr	*
Ross-on-Wye	67	51	41	Tr	*	3·5
Hartland Point	60	54	51	1	1	0·3
Bristol	71	52	44	Tr	1	3·9
Portland Bill	62	58	*	-	-	*
Plymouth	64	56	53	Tr	Tr	2·7
The Lizard	63	53	*	Tr	Tr	3·1
Scilly (St. Mary's)	64	53	*	0·2	1	2·6
Guernsey						
Pembroke	61	50		Tr	2	0·1
Holyhead (Valley)	63	53	48	0·5	2	*
Chester (Sealand)	69	53	52	0·4	1	1·6
Manchester	65	49	42	1	2	*
Spurn Head	77	55	*	Tr	-	1·3
Catterick	67	51	44	1	-	4·3
Tynemouth	70	53	49	2	-	*
St. Abbs Head	68	50	*	4	-	*
Leuchars	67	49	42	2	Tr	5·6
Renfrew (Abbots I.)	64	48	44	1	2	5·1
Eskdalemuir	66	47	45	7	1	4·4
Point of Ayre	71	52	*	Tr	-	1·6
Tiree	61	51	*	0·1	4	3·6
Stornoway	61	46	*	6	3	4·9
Dalwhinnie	60	44	40	0·3	10	2·2
Aberdeen †	70	48	40	1	-	2·8
Wick	65	45	41	Tr	Tr	*
Sumburgh	53	49	47	10	1	4·9
Blacksod Point	62	52	*	0·2	-	*
Malin Head	59	55		1	1	4·7
Aldergrove	65	51	48	0·1	0·4	4·8
Birr Castle	65	49	47	0·5	-	2·8
Valentia Obsy.	61	55	50	4	Tr	2·1
Roches Point	63	51	*	2	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 24th July ... 18h. G.M.T. | 01h. G.M.T. 25th July ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	62	61525	12468	8-	03645	55525	44	01741	53414	57	81745	54516
115				52	02745	53568	87	81844	20487	87	02844	24587
203	58	61838	16568	8-	02846	20666	5-	62848	16468			
206	5-	02966	20426	8-	01965	55515	4-	01964	22384	80	01964	24584
210	83	02965	25326	26	01954	22515	46	25964	20285	86	01963	52483
220	52	02846	24528	83	01846	23486						
230	5-	52625	19557	8-	01954	18454	86	25845	18486	8-	81856	20586
245	5-	02636	18358	70	01965	22417	5-	81964	55484	24	00952	56583
260	52	02744	21466	20	01854	21716	50	00951	57521	20	02754	54684
278	57	02846	23427				83	01853	22384	8-	02855	55426
279	62	22635	52567	41	02854	20247	20	01863	56413	84	01844	55515
285												
288	5-	02844	53676	84	01853	54514	53	01771	19414	60	00851	53511
575	20	25854	57584	8-	81847	24487	50	01855	55515	8-	25855	22485
301	5-	21746	53558	5-	01734	56557	50	00861	26611	24	01855	18415
321				83	02754	22564	57	22652	25362			
299	57	05644	20415	8-	82748	20528	50	22745	22165	44	01753	20213
292	5-	51644	21457	62	64447	20268	50	01743	23363	53	02845	22215
310												
614				52	05655	51427	52	05544	51428	04	05690	22315

13h. G.M.T. 24th July ... 18h. G.M.T. | 01h. G.M.T. 25th July ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	5-	03628	25456				00	00890	23360	10	01853	22313
334	--	61447	28568									
340	62	52638	21558	62	61748	22568	54	22863	26163	54	02871	21215
136	23	01764	22565	2-	02767	55517	57	02863	20527	5-	02854	24365
336	52	56636	20458							14	01754	24415
350	10	01854	53564	24	00862	54513	5-	02758	51428	54	02871	21215
368	5-	51638	22428	5-	52648	54458	5-	62538	56568	23	02753	28266
379	8-	02945	20655	8-	02955	53525	5-	51728	57558	50	00942	26263
390	50	01755	22565	10	01753	22513	53	05674	20416	5-	05554	22356
382	70	01854	23624	84	01954	20414	57	02757	19428	18	01952	28314
438	5-	03748	22628	57	02736	22618	5-	14757	22727	--	48009	22649
430	52	02846	22458							5-	51648	22328
409	5-	02848	21628	5-	02958	20628	5-	62648	20363	50	01843	23314

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 25th July.
Day 7h—18h Kew and Croydon, 9h—18h Kensington 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather: Morning	Afternoon	Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew	cd.6d.c	cbc	widoc	Kew 24 hours ended 7h.
Croydon	bcbc	bcb	bc id.	Max. <0·1 whole period
Greenwich	c	cb	bbcd.c	Min. Time
Camden Square	c	c	*	
Kensington	cdbc	bcb	*	
Hampstead	bc	bcp	bc	

Stations	Temperature: Day Max °F	Night Min °F	Min on grass °F	Rainfall: Day mm	Night mm	Sunshine to sunset hrs (Yesterday)	Humidity 15h % (Yesterday)	Humidity 9h % (To-day)
Kew	70	59	55	Tr	Tr	7·2	*	*
Croydon	71	57	54	-	0·1	8·3	*	*
Greenwich	74	57	51	-	Tr	7·4	62	62
Westminster	72	59	55	-			83	79
Regents Park	74	58	55	-	Tr		65	59
Camden Square	74	58	53	-	-	*	*	59
Kensington	74	58	53	Tr	-		67	63
Hampstead	71	56	52	-	Tr		*	71

SECRET

Page 1 BRITISH SECTION

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

Sunday 26th July 1942

No. 29466

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)	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)	13·6	-8	W'S	2	c	68	45	43	8	5	5	8	1	9+	4000
	Croydon	14·0	-6	SW	3	c	69	55	53	8	1	3	6	Tr	10	2800
	S. Farnborough	13·9	-6	W	3	bc	71	35	44	9	1	7	8	Tr	7-8	2000
	Boscombe Down	13·6	-6	W'S	2	bc	68	45	48	8	1	4	2	2-3	4-6	3000
	Thorney Island	14·5	-6	S	4	c	63	92	58	9	2	3	8	4-6	7-8	4000
	Lympne	15·9	-2	WSW	4	c/d	63	85	59	6	5	-	-	10	10	500
	Manston	14·0	-6	SW'S	4	c	68	75	61	7	2	6	-	7-8	7-8	1500
2	Shoeburyness	14·0	-6	W'S	3	c	72	55	56	8	1	7	-	2-3	9	3200
	Felixstowe	13·3	-12	S	3	bc	69	75	59	6	7	-	8	4-6	4-6	4000
	Gorleston	13·3	+4	WSW	3	bc	70	45	53	8	1	7	4	2-3	4-6	4000
	Mildenhall	13·1	-4	WSW	4	b	69	45	47	9	1	-	8	1	2-3	3000
	Cranwell	12·3	0	SW'W	4	bc	66	55	52	8	1	-	6	4-6	4-6	4000
3	Birmingham	12·6	-2	SSW	3	c	64	45	43	8	7	-	7	7-8	10	2500
	Upper Heyford	13·3	-2	W'S	4	bc	68	45	45	8	1	-	-	4-6	4-6	2800
4	Ross-on-Wye	13·5	-6	W'S	4	bc	66	45	46	8	1	-	-	4-6	4-6	4000
5	Hartland Point	15·3	+2	W	3	bc	60	75	50	8	2	-	-	2-3	2-3	2500
	Bristol	15·1	-2	W	4	bc	66	55	49	9	1	-	5	4-6	4-6	4000
	Portland Bill	15·3	-6	SW	3	c	61	92	59	8	2	4	-	4-6	10	4000
	Plymouth	15·8	0	WSW	3	c	62	75	55	8	1	3	8	4-6	7-8	2000
	The Lizard	16·2	0	WSW	3	bc	62	75	55	8	2	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	16·8	+2	SW'W	2	bc	65	65	51	8	2	4	6	1	2-3	1200
	Guernsey															
6	Pembroke	14·9	+4	WSW	4	c	60	75	52	8	2	4	-	4-6	7-8	2500
7	Holyhead (Valley)	12·4	0	WSW	5	bc	61	65	51	8	2	4	6	1	4-6	2500
	Chester (Sealand)	11·9	0	WSW	4	c	65	45	45	8	2	-	4	7-8	7-8	3500
8	Manchester	11·8	-2	WSW	4	bc	63	55	49	9	1	3	-	4-6	7-8	3000
10	Spurn Head	11·9	0	WSW	5	bc	66	45	44	7	1	6	1	2-3	4-6	4000
	Catterick	10·5	+6	WSW	4	bc	60	55	46	8	5	-	-	7-8	7-8	2500
	Tynemouth	08·8	+12	NSW	5	c	65	55	49	6	8	-	-	7-8	7-8	2400
11	St. Abbs Head	05·7	+30	W	5	cq	61	65	50	9	5	-	-	9	9	3000
	Leuchars	03·4	+6	NSW	5	bc	65	75	55	9	2	6	5	4-6	4-6	2500
12	Renfrew (Abbots I.)	06·8	+12	W'N	5	pr	67	65	51	8	2	-	-	7-8	7-8	2000
	Eskdalemuir	07·5	+14	WSW	4	bc	58	65	43	8	8	-	-	7-8	7-8	2200
	Point of Ayre	09·9	+4	W'S	5	b	65	55	50	8	1	6	-	Tr	1	2500
13A	Tiree	05·1	+12	W'N	4	c/pr	58	75	50	8	8	3	1	4-6	7-8	2000
	Stornoway	02·4	+22	NW	4	c	57	75	50	8	5	4	5	4-6	9	3500
13B	Dalwhinnie	04·9	+22	WSW	4	c	58	65	46	8	8	-	-	4-6	4-6	2500
	Aberdeen	02·5	+20	WNW	4	bc	67	45	46	9	8	-	-	7-8	7-8	2400
	Wick	01·3	+30	WNW	6	bc	56	75	47	9	8	4	-	4-6	7-8	1500
16	Sumburgh	93·3	+22	W'N	9	c/r	51	85	66	7	5	1	-	9+	10	1200
17	Blacksod Point	10·6	+8	W'S	4	bc	60	97	59	8	2	-	5	4-6	4-6	4000
18	Malin Head	07·7	+12	NW'W	6	bc	58	85	55	8	2	-	1	4-6	7-8	2500
	Aldergrove	09·4	+2	SW'W	3	bc	62	55	46	9	3	-	-	2-3	2-3	2500
19	Birr Castle	12·6	+2	SW	2	c	58	85	54	8	8	7	-	7-8	9	1500
20	Valentia Obsy.	14·5	+2	W'S	3	c	60	75	52	9	8	-	-	7-8	7-8	4000
	Roches Point	14·0	-2	W	3	c/pr	57	92	55	8	3	-	-	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 25th 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. 25th (39)	Weather 13h.–18h. 25th (40)	Weather 18h. 25th to 1h. 26th (41)	Weather 1h.–7h. 26th (42)
London (Kew)	12·7	-6	SW'W	3	bc	67	55	51	8	8	4	1	4-6	4-6	2500	1	*	cy	abcy	bbccw	bcybw
Croydon	13·6	-2	SW	2	bc	67	65	57	8	2	3	2	1	4-6	3000	0	*	cy	cir_0bc	bccbw	bcc
S. Farnborough	12·9	-2	SW	3	bc	68	55	52	8	4	4	-	4-6	7-8	2000	0	*	bcycr	cbbcy	bcybbc	bcwc
Boscombe Down	14·4	0	WNW	4	bc	63	45	44	8	1	4	-	2-3	2-3	3500	0	*	bccbcy	cybcy	bcbbc	
Thorney Island	14·2	-6	SW'W	4	bc	64	65	53	9	5	3	-	2-3	4-6	5700	0	*	cm_0d_0c	circbc	bcb	bbccw
Lympne	14·9	-6	WSW	1	c/r	60	85	55	8	5	9	-	Tr	7-8	500	0	§ 2	coid	cir_0	cbFbc	bcm_0wc
Manston	13·5	0	SSW	3	ir_0	61	85	57	8	5	7	1	9	9+	5700	1	*	cr_0d_0dd	cir_0	bc,b	bcwc
Shoeburyness	13·5	-2	SSW	3	c	67	75	58	8	1	3	8	Tr	7-8	3500	0	*	cir_0bcc	cyc	cbc	b,c
Felixstowe	13·7	+2	N	2	bc	70	55	52	8	1	7	8	1	9	4000	0	2	cbc	bccy	bc	bccbcc
Gorleston	13·1	+2	W'N	2	c	70	45	50	7	1	7	1	2-3	7-8	3000	0	2	bcy	bccy	bcw	bcwc
Mildenhall	12·1	-4	WSW	2	c	67	45	46	8	1	3	8	4-6	4-6	3000	0	*	cybcyby	bybcy	bcybcb	bbccw
Cranwell	11·4	-4	WSW	3	bc	66	45	46	8	7	-	2	4-6	4-6	4000	0	*	bccbcy	bcy	bcyb	bm_0bcc
Birmingham	12·6	+2	SW	3	bc	63	55	48	8	7	-	-	4-6	4-6	4000	1	*	cbc	cbc	bc	bcc
Upper Heyford	12·8	+2	WSW	5	b	65	45	43	9	1	8	-	1	1	3500	0	*	bwbcy	bcyby	bcbc	bcbc
Ross-on-Wye	13·5	0	W	3	c	61	55	47	9	5	-	-	9+	9+	3500	0	*	cbcy	bcycy	bcbbc	bcc
Hartland Point	14·5	-4	W	4	bc	61	75	53	8	2	4	-	2-3	4-6	2500	0	4	cbc	bc		bc
Bristol	14·9	-2	W'S	5	bc	62	55	44	9	1	6	8	Tr	1	2500	0	*	bccbcy	bcyr	bc, bc	cid_0
Portland Bill	14·2	-6	SW	4	bc	59	92	57	8	2	-	-	4-6	4-6	4000	1	4	cc	cbc	bcc	oc
Plymouth	15·5	0	WNW	3	bc	65	55	47	8	1	-	-	4-6	4-6	3400	0	3	cwbcc	cbc	bcc	c
The Lizard	16·5	0	W	2	bc	62	75	55	8	2	6	-	2-3	4-6	2500	0	3	bc	bc	bccw	bcc
Scilly (St. Mary's)	16·3	-2	WSW	3	bc	63	75	54	8	4	2	-	1	2-3	1200	0	3	cbc	bc	bcc	c
Guernsey																					
Pembroke	14·2	-6	WSW	4	bc	59	75	52	8	2	4	-	2-3	2-3	3000	1	3	bcc	bc	bcc	bcwc
Holyhead (Valley)	12·1	+2	SSW	6	c/pr	57	85	53	8	8	-	-	9+	9+	2500	1	4	bcb	cpr_0cpr	cprbcb	bcc
Chester (Sealand)	11·8	0	SW'W	3	bc	63	55	45	8	8	4	1	4-6	7-8	4000	0	*	bc	bcy	bcyc	cpr_0bc
Manchester	11·6	-2	SW'W	4	bc	62	55	47	9	2	6	-	4-6	7-8	4000	0	*	bc	bc	bcc	$bcir_0m_0$
Spurn Head	11·4	-2	WSW	3	c	64	55	49	8	2	6	2	2-3	7-8	4000	0	2	bc	c	bcb	c
Catterick	10·9	+4	WSW	3	bc	61	65	47	9	4	-	-	4-6	4-6	3000	0	*	bcc	cybc	bc	bcc
Tynemouth	09·4	0	W	4	bc	62	65	51	8	2	4	-	4-6	4-6	2800	1	2	bcc	cbc	$bccm_0$	cm_0c
St. Abbs Head	07·2	+8	SW	3	bc	59	75	51	8	5	4	-	4-6	4-6	3000	0	3	bbcc	cbcc	bcbbc	bcc
Leuchars	05·9	+6	WNW	4	bc/pr	63	75	56	9	3	6	3	4-6	4-6	2500	1	*	bc	$bcpr_0$	bcb	bwc
Renfrew (Abbots I.)	07·6	+2	W'N	5	bc	61	65	48	8	2	3	-	4-6	4-6	2000	1	*	cpr_0c	cpr_0bc	bcbbc	$bcpr_0c$
Eskdalemuir	08·6	+2	SW	3	pr	55	75	48	8	8	-	-	9	9	1800	1	*	cpr_0bc	cpRpr	cpr_0bc	bcc
Point of Ayre	09·6	0	W'S	4	c	63	65	51	8	5	3	-	7-8	7-8	3000	0	4	by	bbcc	cr_0prc	cbcc
Tiree	07·2	+6	W'N	4	bc	57	75	49	8	8	-	2	4-6	4-6	3500	0	4	cprbc	prbc	bccpr	cpRc
Stornoway	04·9	+8	NW	3	bc	55	75	47	8	1	4	4	2-3	4-6	4500	1	-1	cpr	cbc	cbc	cbcw
Dalwhinnie	06·6	+12	SSW	3	c	54	65	45	8	5	-	-	9+	9+	2500	0	*	c	c		cpr_0
Aberdeen	04·8	+12	N'W	2	bc	62	65	52	9	8	-	3	4-6	7-8	2400	0	2	bbcy	bc	bccpr	c
Wick	04·0	+12	NW'W	5	bc	55	75	47	9	1	4	1	2-3	4-6	2500	0	*	cbcr	bccbc	cir_0c	cpr_0bc
Sumburgh	00·3	+66	WNW	6	c	51	75	44	7	8	6	4	7-8	9	1500	1	6	$p+++m_0c$	cpr_0c	cpr_0c	cpr_0c
Blacksod Point	10·7	-2	WSW	4	bc	57	97	56	8	3	-	4	4-6	4-6	4000	1	4	bc	+	pr	bc
Malin Head	08·2	+2	W'S	4	bc	57	85	53	8	2	2	-	4-6	4-6	2500	1	4	bc	pr	pr	pr
Aldergrove	08·8	-2	SW	2	c	61	65	49	8	2	6	-	2-3	4-6	3000	1	*	cpr_0bcy	bcyjpbc	$bccpr_0bcp$	$bccbccpr_0c$
Birr Castle	11·6	0	WSW	3	c	62	55	47	8	2	-	-	7-8	7-8	1500	1	*	pr	pr		pr
Valentia Obsy.	14·5	-2	W'S	4	c	60	75	52	9	8	-	3	7-8	9	2500	0	4	pr	c	pr	r
Roches Point	13·5	0	W'S	4	bc	61	65	49	9	3	-	-	4-6	4-6	1500	1	4	pr	pr	bc	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 26th July 1942

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light Southwest winds; fair today, cloud increasing with some occasional light rain later; temperature rather below normal
4 W. Midlands, 5 S.W. England, 6 South Wales, 7 North Wales	Light indefinite winds becoming Southwest light to moderate; mainly dull with occasional rain or drizzle. Some local coast and hill fog; rather close.
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 winds mainly between West and Northwest; occasional showers with some local thunderstorms; bright periods; rather cool.
16 Orkneys and Shetlands	As 8-15.
17 N. W. Ireland, 18 N. E. Ireland	Light Westerly winds backing Southwest and freshening later; some showers and brighter periods today; rain or drizzle spreading from the West tomorrow; rather cool.
19 S. E. Ireland, 20 S. W. Ireland	As 4-7

GENERAL INFERENCE

Pressure is mainly rather below normal over the British Isles and a secondary disturbance off Southwest Ireland will move eastwards. Rather unsettled, cool weather will continue with thunder showers in the North and some more general rain in the South.

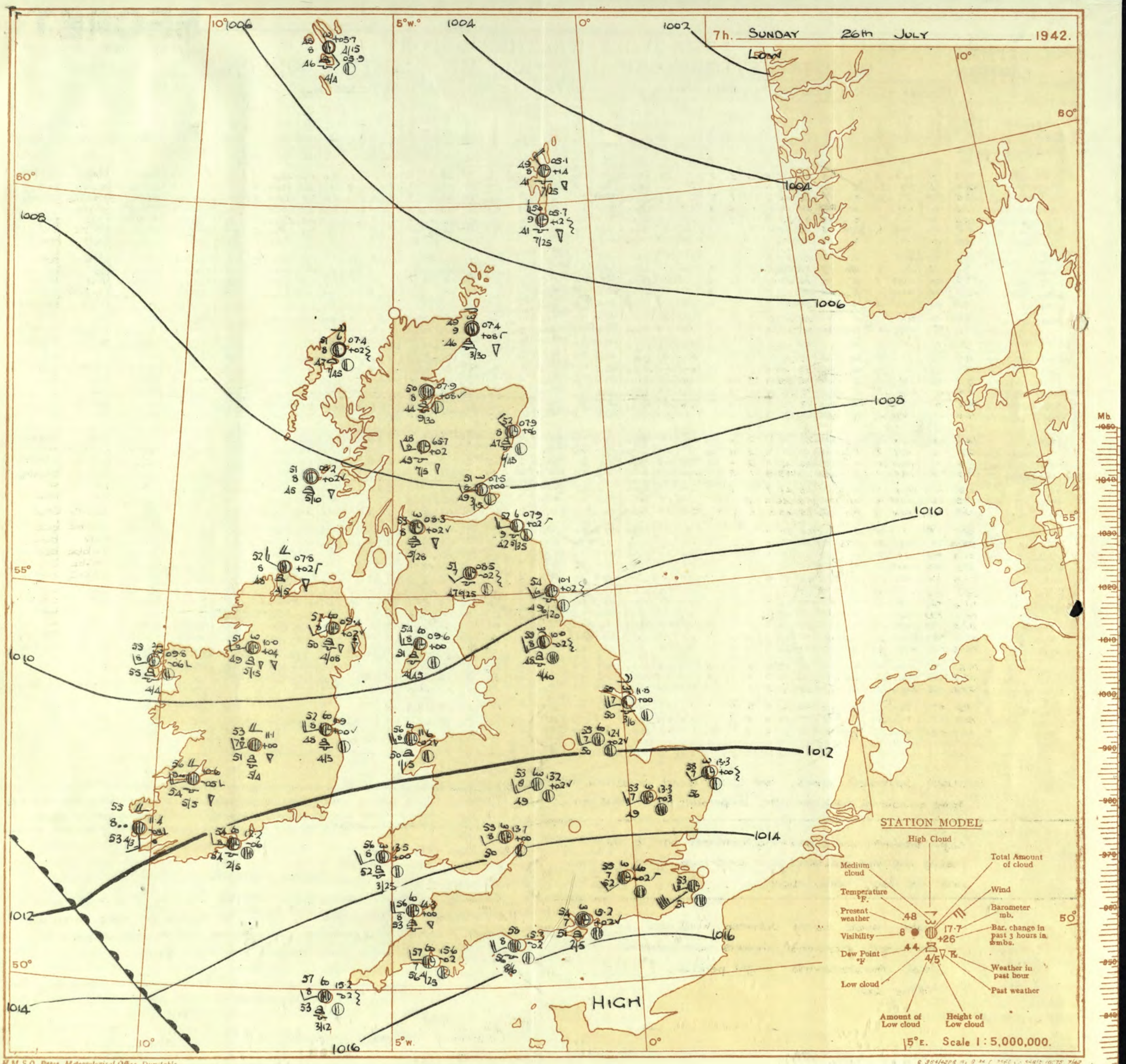
FURTHER OUTLOOK

Continuing unsettled generally

Forecasts issued at 10.30

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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).

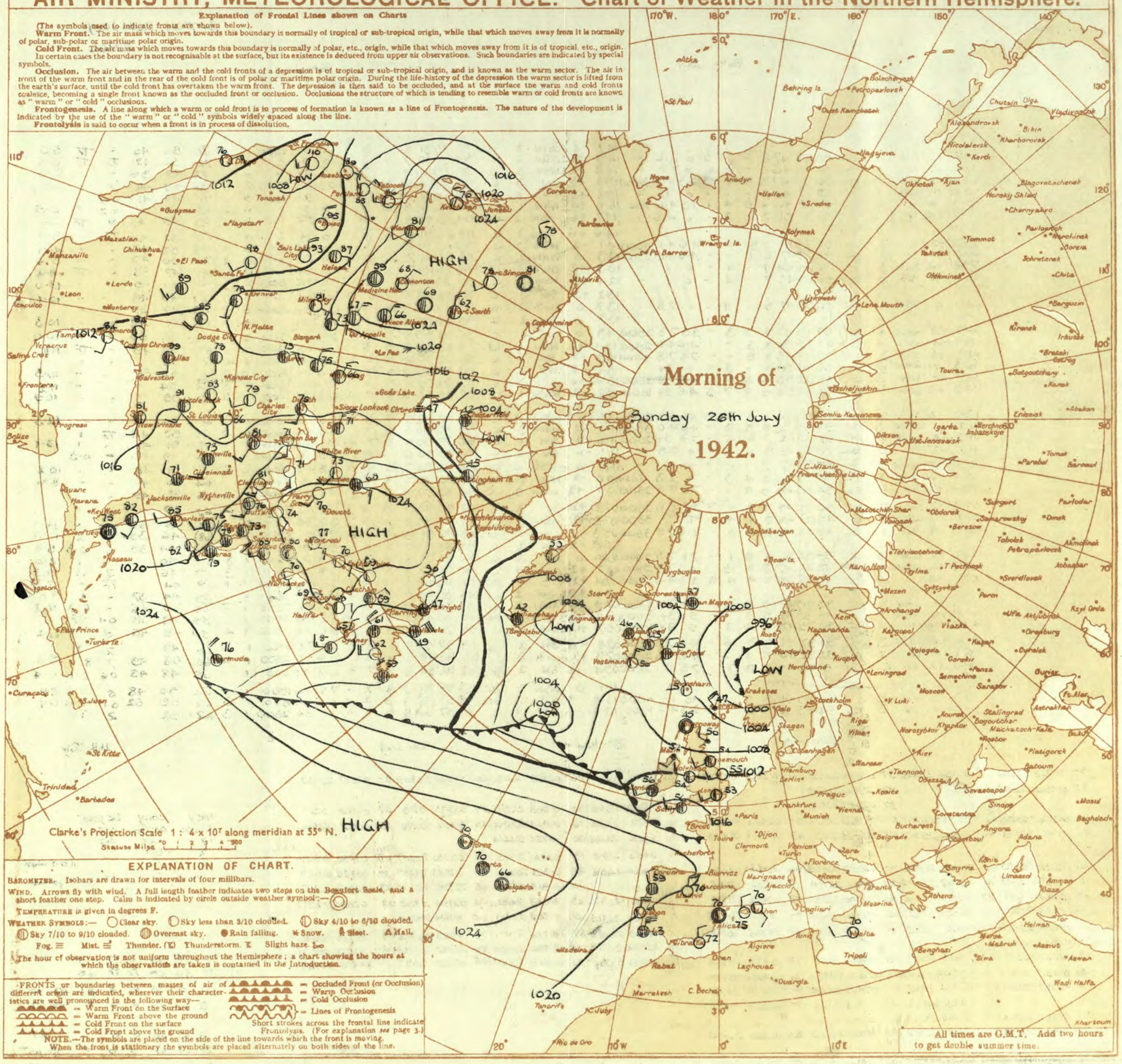
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Sunday 26th July 1942

No. 29466

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)	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	*	*	*	*	*	56	*	*	*	*	*	*	*	*	*
	Croydon ...	290	14·7	+2	SW	3	bc	53	85	47	8	-	-	2	0	4·6	-
	S. Farnborough	226	14·6	0	W	1	bc	52	85	46	9	-	3	6	0	7·8	-
	Boscombe Down	417	15·4	0	W'N	3	bc	50	92	47	8	5	4	6	2·3	4·6	3000
	Thorney Island	10	15·2	+4	N'W	1	b	49	97	49	7	-	-	-	0	1	-
	Lympne ..	283	15·3	0	W	2	bc/f	48	92	46	6	5	4	1	2·3	4·6	700
	Manston ...	154	13·0	+4	W	1	bc	53	97	51	7	-	3	-	0	4·6	-
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	13·9	-2	W	3	bc	59	75	51	7	5	-	-	4·6	4·6	4000
	Gorleston ...	5	13·3	0	W	2	bc	55	75	47	6	1	-	-	4·6	4·6	2500
	Mildenhall ...	15	12·8	+4	SW'W	3	b	51	75	44	7	-	4	-	0	1	-
	Cranwell ...	203	12·1	-2	WS	3	b	50	85	45	7	-	4	-	0	1	-
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	13·9	0	SSW	2	bc	50	92	47	8	-	4	6	0	7·8	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	14·7	-2	WNW	4	c	57	85	52	8	2	3	-	2·3	7·8	2500
	Bristol ...	209	15·1	-4	SW'W	4	c	56	85	51	8	5	-	1	4·6	4·6	2500
	Portland Bill ...	32	15·5	+2	SW	3	c	59	85	55	8	5	-	-	7·8	7·8	4000
	Plymouth ...	82	16·3	0	WNW	3	c	56	92	53	8	-	3	-	0	9+	-
	The Lizard ...	240	16·7	0	W'S	3	c	55	92	53	8	8	9	-	4·6	7·8	2500
	Scilly (St.Mary's)	163	16·5	+2	WSW	3	c	56	92	54	8	8	7	3	4·6	9+	1500
	Guernsey ...	175															
6	Pembroke ...	142	13·9	-2	W'S	5	c	56	85	52	8	8	3	3	4·6	7·8	2500
7	Holyhead (Valley)	32	11·9	0	WNW	3	bc	54	85	50	8	5	3	-	4·6	4·6	3500
	Chester (Sealand)	16	11·9	-2	SW'S	2	pr	55	85	52	7	8	6	-	7·8	9+	2500
8	Manchester ...	235	11·7	-2	S	3	bc	52	92	49	8	-	3	-	0	7·8	-
10	Spurn Head ...	29	11·4	0	SW'W	3	b	55	75	47	7	-	-	-	0	0	-
	Catterick ...	175	10·4	-4	WSW	2	bc	54	85	50	8	4	3	-	1	2·3	4000
	Tynemouth ...	108	09·6	-2	SW	2	2o	54	85	49	9	5	-	-	7·8	7·8	2500
11	St. Abbs Head	280	07·5	+2	SW	2	bc	50	92	48	7	5	4	-	2·3	4·6	2500
	Leuchars ...	36	07·2	+6	WSW	1	b	48	97	48	9	4	4	-	Tr	Tr	3500
12	Renfrew (Abbots I.)	19	08·3	+2	SW	1	bc	48	92	46	7	8	3	-	4·6	7·8	3500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	10·0	+2	W'N	3	c	54	92	51	8	8	1	-	7·8	7·8	2000
13A	Tiree	22	07·3	-2	WSW	1	c	48	92	47	8	8	3	-	4·6	7·8	2500
13B	Stornoway ...	80	07·1	+8	-	0	bc	45	97	45	8	5	4	8	2·3	4·6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	06·9	+6	WNW	2	pr	50	85	47	9	5	-	-	9+	9+	3500
	Wick ...	114	05·0	+6	WNW	1	c	45	85	41	8	5	-	-	9+	9+	3000
16	Sumburgh ..	19	03·9	+14	NW	4	c	50	75	43	8	8	3	-	9	9+	1500
17	Blacksod Point	18	10·4	-4	W'N	3	c/pr	52	97	51	8	3	6	-	4·6	7·8	1500
18	Malin Head ...	84	08·2	-4	SSW	2	pr	52	92	50	8	2	2	-	4·6	7·8	2500
	Aldergrove ...	268	09·9	+2	SW	1	c/pr	51	92	49	8	8	7	-	7·8	9	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·7	-6	SW	3	c	56	85	51	8	5	-	-	10	10	4000
	Roches Point	22	14·0	0	W	3	bc	54	85	50	8	5	-	5	2·3	4·6	1500

OBSERVATIONS at 7 hr. 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)	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)	14·7	0	SW'N	2	c	57	85	51	8	5	3	-	7·8	9+	4000	1	*
Croydon ...	14·9	+2	SSW	2	c	55	85	52	7	-	3	-	0	9	-	0	*
S. Farnborough	14·5	+2	WSW	2	c	56	85	50	9	-	3	-	0	9+	-	0	*
Boscombe Down	15·2	+2	SW	3	c	55	85	52	8	5	5	-	2·3	9+	3500	0	*
Thorney Island	15·2	+2	-	0	c	54	85	51	7	2	3	-	1	9+	2500	0	*
Lympne ..	16·0	+4	WSW	1	c	53	92	51	8	-	3	-	0	9	-	0	§2
Manston ...	14·7	+6	WSW	2	c	54	85	50	9	-	5	-	0	9+	-	1	*
Shoeburyness...	14·6	+6	WSW	2	c	58	75	51	7	-	3	-	0	9+	-	0	*
Felixstowe ...	14·1	-2	WSW	3	c	55	85	51	8	-	3	-	0	9+	-	0	2
Gorleston ...	13·3	0	WNW	2	c	52	85	46	7	-	3	-	0	7·8	-	0	2
Mildenhall ...	13·3	+2	SW'W	3	c	53	85	49	7	-	3	-	0	9+	-	0	*
Cranwell ...	12·1	+2	WSW	4	c	55	85	50	7	-	7	6	0	7·8	-	0	*
Birmingham ...	13·2	+2	SW	3	c	53	85	49	8	-	5	-	0	7·8	-	1	*
Upper Heyford	13·9	0	SW'S	2	c	52	92	50	7	5	3	-	Tr	9+	4000	0	*
Ross-on-Wye	13·7	0	SW	2	c	55	85	50	8	-	3	-	0	9+	-	0	*
Hartland Point	14·3	0	W	4	c	56	92	53	8	8	7	-	4·6	9+	1500	0	4
Bristol ...	15·1	+2	WSW	1	id.	56	85	51	8	5	5	-	7·8	10	1500	0	*
Portland Bill ...	15·3	-2	SW	4	c	58	92	56	8	5	-	-	10	10	4000	1	4
Plymouth ...	15·6	-2	W'N	2	c	57	92	55	7	5	7	-	4·6	9+	2500	0	2
The Lizard ...	15·4	-4	W	3	c	57	92	55	8	8	2	-	9	10	1200	0	3
Scilly (St.Mary's)	15·2	-2	SW'N	1	c	57	85	53	8	8	7	-	2·3	10	1200	0	3
Guernsey ...																	
Pembroke ...	13·5	0	WSW	3	c	56	85	52	8	8	3	-	2·3	7·8	2500	1	3
Holyhead (Valley)	11·6	-2	WSW	5	c	56	85	50	8	2	7	-	Tr	9+	1500	1	3
Chester (Sealand)	11·6	-2	SW	1	c	56	75	50	8	8	7	8	1	9+	2500	1	*
Manchester ...	11·1	-6	S'W	2	c	52	92	50	6	2	5	-	2·3	9	4000	1	*
Spurn Head ...	11·8	0	WSW	4	bc	55	85	50	7	5	6	2	2·3	4·6	4000	0	3
Catterick ...	10·0	-2	WSW	3	c	55	75	48	8	8	6	9	4·6	9	4000	0	*
Tynemouth ...	10·1	+2	WSW	3	c	54	85	49	6	8	-	-	9	9	2000	1	2
St. Abbs Head	07·9	+2	W	3	c	52	85	48	9	5	4	-	7·8	7·8	3500	0	2
Leuchars ...	07·5	0	WSW	2	c	51	97	49	8	5	3	-	2·3	7·8	1500	0	*
Renfrew (Abbots I.)	08·3	+2	-	0	c	53	92	51	8	8	3	-	7·8	9	2000	1	*
Eskdalemuir ...	08·5	-2	SW	2	c	51	85	47	7	5	-	-	9	9	2500	1	*
Point of Ayre...	09·6	0	W	3	c	54	92	51	8	8	7	9	4·6	9	4500	1	3
Tiree	08·2	+2	-	0	c	51	92	49	8	8	-	-	7·8	7·8	1000	1	3
Stornoway ...	07·4	+2	-	0	bc	51	85	47	8	1	4	2	Tr	4·6	4500	1	1
Dalwhinnie ...	07·6	+2	SW	2	c	48	85	45	8	5	-	-	9+	9+	2500	1	*
Aberdeen † ...	07·9	+6	NW'W	2	c	52	85	47	8	8	-	-	9+	9+	2200	1	4
Wick ...	07·4	+8	-	0	bc	49	85	46	9	8	3	3	2·3	4·6	3000	1	*
Sumburgh ..	05·7	+12	NW	3	c	50	75	41	9	5	-	-	9+	9+	2500	1	4
Blacksod Point	09·8	-6	SW	2	c/p	55	97	54	8	8	3	5	4·6	7·8	1500	1	2
Malin Head ...	07·8	+2	W'N	3	c	52	85	48	8	2	2	-	4·6	7·8	2500	1	2
Aldergrove ...	09·4	+2	SW	2	c/pr	52	92	50	8	8	7	-	4·6	9+	800	1	*
Birr Castle ...	11·1	0	WSW	2	pr	53	92	51	7	8	2	-	7·8	10	1500	1	*
Valentia Obsy.	11·4	-8	S'E	3	10r.	55	92	53	8	5	2	-	4·6	10	800	1	3
Roches Point	12·2	-6	W	1	c	54	97	53	8	5	7	-	1	9+	2500	1	3

PAST 24 HOURS.

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 25th. Hrs. (38)
London (Kew)	71	56	40	-	Tr	5·5
Croydon ...	72	52	49	Tr	Tr	6·8
S. Farnborough	73	49	36	-	-	7·6
Boscombe Down	70	49	41	-	-	10·4
Thorney Island	71	46	41	0·2	-	*
Lympne ..	63	45	*	0·2	-	0·5
Manston ...	69	49	45	9	Tr	3·3
Shoeburyness...	74	52	42	Tr	-	3·0
Felixstowe ...	73	52	46	-	-	4·0
Gorleston ...	70	50	47	-	-	9·0
Mildenhall ...	71	47	38	-	Tr	11·6
Cranwell ...	*	49	45	-	-	13·0
Birmingham ...	67	49	45	-	-	10·1
Upper Heyford	69	47	41	-	-	*
Ross-on-Wye	67	51	48	-	-	10·3
Hartland Point	62	55	53	-	1	10·0
Bristol ...	67	53	45	-	Tr	11·8
Portland Bill ...	61	56	*	-	-	*
Plymouth ...	(66)	54	51	-	-	10·3
The Lizard ...	64	54	*	-	-	11·2
Scilly (St.Mary's)	65	55	*	-	-	10·9
Guernsey ...						
Pembroke ...	61	50		-	-	12·3
Holyhead (Valley)	63	53	48	Tr	1	*
Chester (Sealand)	67	51	41	-	1	13·1
Manchester ...	64	49	45	-	0·3	*
Spurn Head ...	67	51	48	-	-	10·2
Catterick ...	64	50	43	-	-	8·6
Tynemouth ...	66	52	49	-	-	*
St. Abbs Head	65	47	*	-	-	*
Leuchars ...	64	45	38	0·2	-	14·1
Renfrew (Abbots I.)	(68)	46	39	Tr	2	10·0
Eskdalemuir ...	61	44	39	6	0·3	5·8
Point of Ayre...	67	50	*	-	1	11·0
Tiree	59	46	*	3	3	9·9
Stornoway ...	59	44	*	Tr	-	7·3
Dalwhinnie ...	59	44	37	-	1	9·8
Aberdeen † ...	68	49	46	-	0·3	11·2
Wick ...	58	42	38	0·1	Tr	*
Sumburgh ..	52	49	45	3	Tr	0·2
Blacksod Point	60	49	*	2	1	
Malin Head ...	60	58	49	7	8	9·8
Aldergrove ...	65	48	45	0·6	0·1	6·4
Birr Castle ...	64	50	48	5	0·2	8·9
Valentia Obsy.	62	55	52	0·1	0·6	8·1
Roches Point	62	52	*	2	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 25th July: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	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	8-	81746	27586	17	01854	25524	57	02854	24355	87	02855	00027
115	87	81944	24437				52	62914	24325			
203							57	02954	32125			
206	8-	81966	22586	86	25858	26287	4-	02866	26126	8-	02864	00013
210	26	01954	55615	96	81954	25387	54	02965	21126	83	02973	26325
220												
230	86	02855	20385	86	25955	20386	9-	02955	00065	86	25845	00086
245	10	01954	58614	36	25962	57585	54	01964	25114	73	01953	22215
260	2-	25865	21685	27	02864	21414	04	00790	21382	83	02864	21215
278	86	10855	22417	86	81856	30387	86	02846	20287	8-	81837	20327
279	10	01854	22315	3-	01944	55415	5-	25855	22387	83	81745	25386
285	2-	02857	24527									
288	13	02855	53516	83	01863	20413	40	00861	16311	73	01873	20314
575	26	00853	26413	36	25844	24485	8-	02856	24286	26	25845	22286
301	13	02953	23514	83	02954	23515	8-	02875	24385	9-	25635	24388
321				5-	02765	24325	43	01763	21313	57	05663	25187
299	54	01764	20314	44	01764	20314	50	02753	22203			
292	24	02965	22315	86	01963	22314	50	00862	00012	84	01754	22185
310				58								
614	10	02754	22214	43	01764	23314	54	05864	22214	57	05563	22216

III	13h. G.M.T. 25th July: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	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
333	26	01962	20414	86	02855	21416	44	00862	23303	8-	02867	22327
334												
340	1-	01965	22415	80	01963	22313	53	02973	18215	37	02965	21227
136	10	01854	22214	10	01863	23214	40	01862	23222	55	05651	22316
836	50	01754	28414	50	01754	24414						
350	10	01854	21314	13	00861	21313	04	02790	20207	03	02790	21327
368	20	01954	24414	26	01953	22414	75	02853	23287	37	23328	14957
379				10	00963	55413	00	02790	22325	53	02762	20327
390	10	01861	22326	43	01863	24324	04	02790	22213	03	02890	22227
882	1-	02864	24315	40	01963	24313	00	01890	00014			
438	--	46009	22459	87	81744	2 *	23	01753	22314	83	02743	24316
430	48	02864	20328	09	01990	20225	50	00762	00013	55	02751	00027
409	20	02953	23314	24	01953	22413	55	62745	22127	5-	54578	22258

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 26th 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	ebcy	cbcy	bcybw	Kew 24 hours ended 7h. Max. Time 42·1 whole period. Min. Time
Croydon ...	c1/2bc	bccbw	bbc	
Greenwich ...	cy	cbcy	bcc	
Camden Square	bc	bc	*	
Kensington ..	bc	bc	*	
Hampstead ...	bc	c	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	71	56	40	-	Tr	5·5	*	*
Croydon ...	72	52	49	Tr	Tr	6·8	*	*
Greenwich ...	74	51	38	0	0	5·1	42	60
Westminster ...	72	53	48	0	0	*	63	82
Regents Park ...								
Camden Square	73	53	46	0	0	*	*	67
Kensington ...	73	52	43	0	0	*	49	69
Hampstead ...	71	49	45	0	0	*	*	53

Page 1 BRITISH SECTION

SECRET ~~CANCELLED~~

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

Monday 27th July 1942

No. 29467

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)	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)	14·8	-2	SW'W	3	c	65	55	47	8	8	3	-	9	9+	2500
	Croydon	14·7	-2	WSW	2	c	65	55	46	8	2	3	6	7-8	9+	2500
	S. Farnborough	14·7	-2	WSW	3	c	67	45	45	9	8	7	-	4-6	9+	2000
	Boscombe Down	15·4	+2	W	4	pr	60	65	49	9	8	7	-	7-8	10	2500
	Thorney Island	15·5	+2	WSW	4	c	64	65	52	9	8	7	-	4-6	9	2500
	Lympne	16·3	+2	SW	2	c	63	75	56	8	2	6	-	7-8	10	2500
	Manston	14·6	-2	WSW	3	bc	67	45	45	9	2	-	8	2-3	2-3	3000
2	Shoeburyness	14·6	-6	WSW	3	bc	68	45	48	8	1	3	1	2-3	4-6	2500
	Felixstowe	14·4	+4	WSW	3	c	68	45	48	8	5	7	-	4-6	9+	3000
	Gorleston	13·7	+2	W'N	2	c	67	45	46	8	8	7	-	7-8	9+	2300
	Mildenhall	13·5	0	SW'W	3	c	64	65	54	8	7	7	-	4-6	10	2500
	Cranwell	12·5	+2	W'N	4	c	63	55	47	8	8	-	6	7-8	9+	2500
3	Birmingham	13·1	0	SW	4	c	63	45	42	8	8	7	-	7-8	9	2500
	Upper Heyford	13·8	+2	SW'W	4	c	61	65	48	8	7	7	-	4-6	10	2200
4	Ross-on-Wye	13·7	-4	SW	3	c	63	55	49	8	2	3	-	2-3	9+	3000
5	Hartland Point	14·2	-2	WSW	3	c	59	85	54	8	2	7	6	4-6	9+	2000
	Bristol	15·3	+2	WSW	3	c/d	59	75	51	8	7	7	-	4-6	9+	2500
	Portland Bill	16·2	+6	SW	4	ir	59	92	57	8	5	-	-	10	10	4000
	Plymouth	15·7	-2	SW	2	c/r	61	85	56	8	8	7	-	4-6	10	2500
	The Lizard	15·2	-8	W	2	c	60	85	56	8	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	14·7	-6	S'W	3	c	61	85	56	8	8	7	-	7-8	9+	1200
	Guernsey															
6	Pembroke	14·0	0	S'W	3	c	60	85	54	8	8	1	-	7-8	9+	2500
7	Holyhead (Valley)	12·5	+4	SW	4	c	62	75	53	8	2	7	-	1	9+	3000
	Chester (Sealand)	12·3	+2	SW	3	c	62	55	47	8	8	6	6	7-8	9+	3000
8	Manchester	12·2	+2	WSW	4	pr	59	65	49	9	2	6	-	7-8	9	2500
10	Spurn Head	12·0	0	WSW	5	c	62	55	48	7	2	6	-	4-6	7-8	4000
	Catterick	10·6	+2	SW'W	4	c/pr	64	55	48	8	3	-	5	7-8	7-8	2800
	Tynemouth	10·7	+4	WSW	3	c	59	75	50	6	8	-	-	9	9	2000
11	St. Abbs Head	09·8	+12	NNW	1	c/pr	54	92	52	8	6	2	-	4-6	7-8	2500
	Leuchars	08·3	+4	SW	2	bc	61	75	53	8	3	-	8	4-6	4-6	3000
12	Renfrew (Abbots I.)	09·4	+6	W'N	3	c	59	65	46	9	2	-	-	7-8	7-8	2200
	Eskdalemuir	09·4	+8	W	3	bc/pr	57	75	47	8	8	-	-	4-6	4-6	1800
	Point of Ayre	11·1	+8	NW'W	4	bc	64	65	51	8	2	-	6	1	4-6	3000
13A	Tiree	09·5	+10	W'S	2	bc	59	65	48	9	2	6	5	2-3	4-6	3000
13B	Stornoway	09·1	+10	SE	1	bc	56	75	48	8	1	4	-	2-3	4-6	4000
15	Dalwhinnie	09·9	+8	W	1	pr	52	85	47	8	5	-	-	9+	9+	2500
	Aberdeen	10·1	+16	S'E	2	c	57	65	45	9	8	-	-	9	9	2200
	Wick	09·4	+10	SE	1	c	55	75	48	9	8	3	-	7-8	7-8	3000
16	Sumburgh	08·6	-14	NW	4	c	54	65	43	9	5	-	9	9	9	2500
17	Blacksod Point	09·5	-2	SE	2	roro	57	97	56	8	6	2	-	4-6	10	2500
18	Malin Head	09·7	+10	W'N	2	bc	57	75	49	8	2	-	-	4-6	4-6	2500
	Aldergrove	10·4	+4	SW'W	2	c	63	55	47	9	8	-	6	4-6	9	3000
19	Birr Castle	10·7	-4	SW	1	c	58	92	56	7	9	2	-	7-8	10	800
20	Valentia Obsy.	09·3	-14	S	4	iro	57	92	55	8	6	2	-	7-8	10	1500
	Roches Point	11·4	-8	S	2	iro	56	97	55	8	6	7	-	4-6	9+	800

OBSERVATIONS at 18h. G.M.T. 26th 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. 26th (39)	Weather 13h.–18h. 26th (40)	Weather 18h. 26th to 1h. 27th (41)	Weather 1h.–7h. 27th (42)
London (Kew)	13·7	-6	SW'W	2	c	63	65	49	8	8	3	-	7-8	9	1500	0	*	ccy	cy	c	rororrdo
Croydon	14·1	-2	W'S	2	c	64	65	52	8	2	3	-	4-6	9+	2500	0	*	cy	ccyc	crororiro	
S. Farnborough	13·7	-4	SW	3	c	64	85	49	9	7	7	-	4-6	9+	5700	0	*	ecyv	cbyvc	cyviroro	crorodo m
Boscombe Down	14·0	-10	SW	4	cjp	60	75	51	8	8	7	-	2-3	10	3500	0	*	cpir	cproc	crro	cRRdodo
Thorney Island	14·5	-6	WSW	3	c	62	65	52	9	1	5	-	Tr	9+	4000	0	*	c	ciroc	cdoiR	cRRdodo
Lympne	15·6	-2	WSW	3	c	60	75	51	8	1	7	-	Tr	7-8	2500	0	§3	c	ciro	crociro	cRRr
Manston	14·1	-2	SW'S	3	bc	63	65	52	8	1	3	-	Tr	2-3	4000	0	*	cy	bcvyc	crrmo	crRmo
Shoeburyness	14·2	-4	WSW	3	bc	65	55	51	8	2	3	-	2-3	7-8	2500	0	*	cbey	bcy	bccciro	rrrRc
Felixstowe	14·6	+2	SSW	4	bc	69	45	48	8	8	7	9	4-6	7-8	5700	0	2	ecy	cybcy	cybcy&	ecirorrmo
Gorleston	13·3	-2	NW'W	2	bc	66	45	46	7	2	-	-	7-8	7-8	2500	0	2	cy	bcycy	c	orro
Mildenhall	12·7	-4	WSW	3	c	65	55	48	8	7	5	-	2-3	7-8	2000	0	*	cbec	ccybcycy	cyc	crrmo
Cranwell	11·8	0	W	3	c	64	55	48	8	4	7	-	7-8	10	3500	0	*	c	cy	ciroc	ccrrmo
Birmingham	12·5	-4	WSW	2	c	62	55	46	8	5	2	-	9+	10	2500	1	*	cbcc	c		rrf
Upper Heyford	12·5	-6	SW'S	2	c	63	65	49	8	5	7	-	4-6	9+	4000	0	*	cbccyv	cbeyc	cirororo	rrrod
Ross-on-Wye	12·6	-6	SW	2	c	62	55	46	8	8	7	-	4-6	10	3000	0	*	c	cy	cpr	Rdodo
Hartland Point	11·4	-20	S	3	c	60	85	55	8	2	7	-	4-6	9+	2500	0	3	cp		tlvrc	cirr
Bristol	13·7	-8	-	0	c	62	75	52	8	8	7	-	7-8	10	2500	0	*	cidoc	c	cclR	crRdodom
Portland Bill	14·5	-4	SW	4	c	58	92	56	8	5	-	-	10	10	4000	1	4	oir	c	orr	oR
Plymouth	13·1	-12	S'W	2	c	60	85	56	8	8	9	-	7-8	10	2000	0	2	crororoc	ciroc	crordm	cmddoc
The Lizard	11·8	-24	S	3	c	59	92	57	8	8	2	-	7-8	10	1700	0	3	cproc	c	orrff	rfprc
Scilly (St. Mary's)	09·9	-38	S'E	4	cjp	61	85	57	8	8	7	-	4-6	10	1200	1	4	ciroc	c	roffc	ciro
Guernsey																					
Pembroke	11·1	-16	SSE	3	c	57	92	55	8	5	1	-	7-8	10	2000	1	3	c	roc	crrq	romoc
Holyhead (Valley)	11·7	-6	S'W	4	roro	57	92	55	8	5	2	-	10	10	2000	1	3	c	croro	croro	cdorr
Chester (Sealand)	11·8	-2	W'S	1	roro	60	75	51	7	1	2	-	Tr	10	5000	1	*	cpro	crroy	crcrrmo	crrmo
Manchester	11·6	-2	W	2	c	60	75	51	7	4	7	-	7-8	10	4000	0	*	cmopro	cpro	roromo	crrmo
Spurn Head	11·9	0	NE'E	3	c	62	75	53	7	2	7	1	4-6	7-8	4000	0	3	bcc	c	c	oror
Catterick	11·3	+2	W	2	c	61	65	47	9	2	-	8	2-3	7-8	3000	0	*	cprocy	cbccy	cybcc	crrroro
Tynemouth	10·9	-2	SE	3	c	56	85	52	7	2	-	1	4-6	7-8	3000	1	3	cpoc	cpobc	c	c
St. Abbs Head	09·8	0	SE	2	bc	55	85	51	8	2	4	-	2-3	4-6	3500	0	2	crocprc	cbc	bccbc	bcmof
Leuchars	09·4	+6	SE	3	bc/pr	57	97	56	8	3	6	3	4-6	4-6	3000	1	*	cbcpbc	PRtbc	bcc	ccmoc
Renfrew (Abbots I.)	09·5	+2	WSW	3	bc	60	55	46	9	2	7	5	4-6	7-8	2500	1	*	cbcc	bcprobcy	bcw	bcffbmo
Eskdalemuir	09·6	+2	WSW	3	bc	59	55	41	8	8	3	4	2-3	4-6	2200	1	*	propR	bcbcy	bcc	cbc
Point of Ayre	10·5	-8	SW'W	2	c	62	65	49	8	2	7	-	Tr	9+	3000	0	2	cprobc	bcc	croro	rroc
Tiree	09·8	0	NNW	3	bc	56	75	48	9	1	-	5	1	2-3	3500	0	2	cjpbc	bc	b	bbc
Stornoway	10·0	+4	ENE	1	c	55	75	48	8	5	4	-	4-6	7-8	2500	1	1	bc	bcc	bc	bcw
Dalwhinnie	10·3	+2	-	0	c	54	75	45	8	5	-	-	9+	9+	2500	1	*	cpro	cpro	c	cprob
Aberdeen	10·5	+4	SE'S	2	bc	54	75	45	8	8	-	1	2-3	2-3	2500	0	2	c	cbc	bcb	bbcbmo
Wick	10·2	+4	SSE	1	bc	54	85	48	9	8	3	-	2-3	4-6	3500	0	*	c	bc	bfgv	bfgbc
Sumburgh	09·4	+4	NW	3	bc	54	65	43	9	8	-	9	2-3	2-3	2500	1	3	cprobcc	c,bc	bcb	b,bc,c
Blacksod Point	07·3	-14	SE	1	roro	58	97	57	8	6	2	-	7-8	10	1500	1	1	r	r	bc	c
Malin Head	09·0	-6	E	3	bc	55	86	52	9	2	-	6	2-3	4-6	2500	1	2	bc	bc	bc	r
Aldergrove	09·4	-4	S'W	2	c	60	75	51	9	8	-	7	4-6	10	2500	1	*	bc, trobc	cyc	croro	croroc
Birr Castle	07·8	-16	SSW	1	pr	56	92	54	7	9	2	-	7-8	10	800	1	*	pr	pr		d
Valentia Obsy.	02·5	-40	ESE	5	roro	57	92	55	8	5	2	-	7-8	10	2500	1	5	r	r	r	d
Roches Point	06·9	-30	SSE	4	rr	56	97	55	6	6	2	-	4-6	10	800	1	4	r	r	r	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 27th July 1942.

Districts	Forecast
1 S.E. England	Light or moderate Southwest wind; dull with rain at first, bright periods later; rather low temperature.
2 E. England, 3 E. Midlands, 4 W. Midlands	Light or moderate Northeast wind backing Northwest; dull with rain or drizzle at first, bright intervals and occasional showers later; temperature below average especially at first.
5 S.W. England, 6 South Wales	Light or moderate Northerly wind backing Northwest; cloudy with occasional rain at first; mainly fair later; rather low temperature.
7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England	Light or moderate East wind backing Northwest; cloudy occasional rain at first, mainly fair later but some local showers; rather low temperatures.
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 wind becoming Northwest; bright periods and showers, local thunderstorms today; average to rather low temperature.
16 Orkneys and Shetlands	Light West to Northwest wind; cloudy occasional rain; rather cool.
17 N. W. Ireland, 18 N. E. Ireland	As 11-15.
19 S. E. Ireland, 20 S. W. Ireland	Light Northeast wind backing Northwest, variable cloud local showers average to rather low temperature.

GENERAL INFERENCE

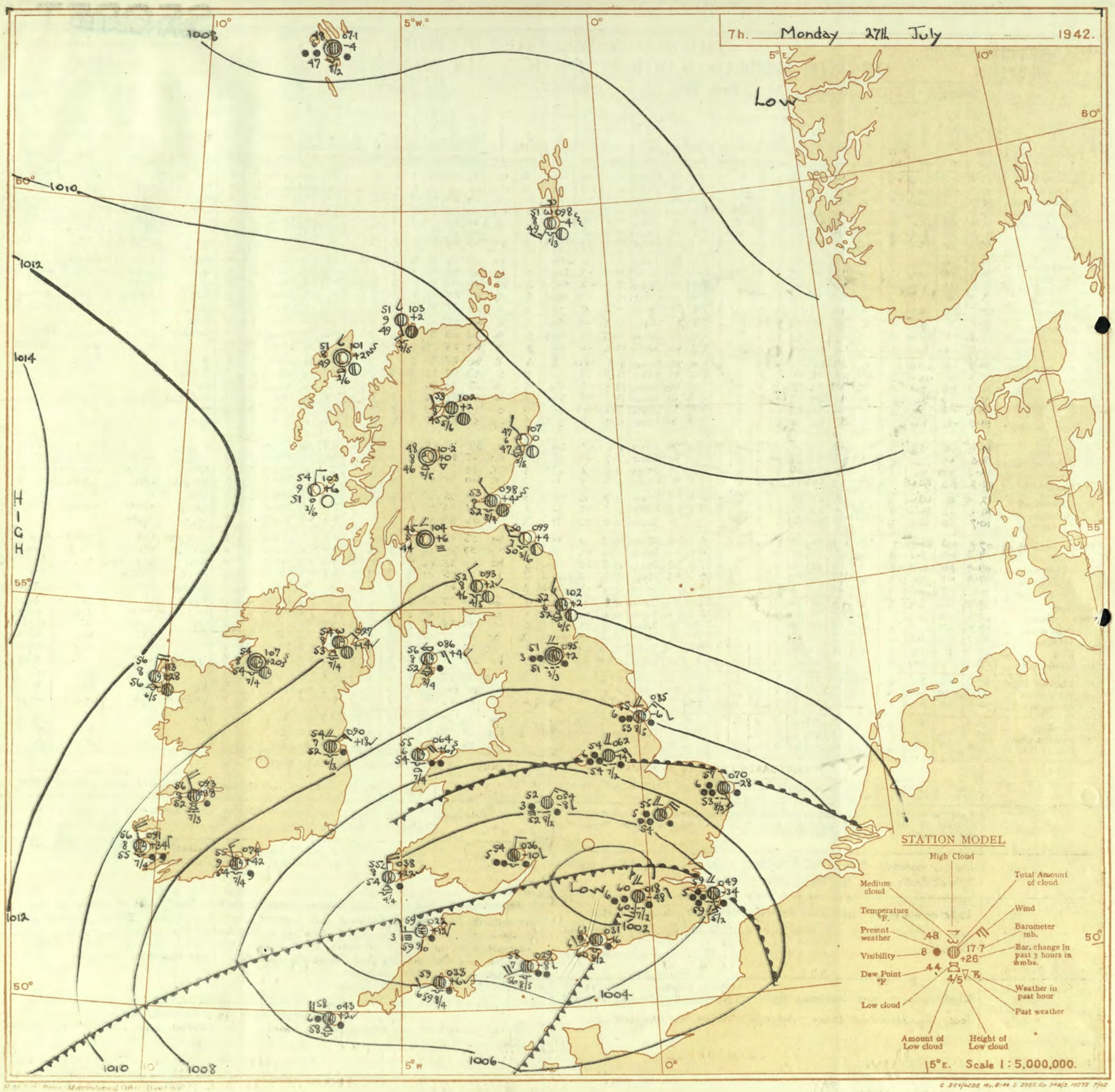
A depression centred over the London area is moving East, and a ridge of high pressure to Westward of Ireland will move in over the British Isles. Weather will continue dull and rainy in the East and Southeast for some hours; but bright intervals with occasional showers will spread from West later. In Scotland there will be long fair periods, but some showers and local thunder. Temperature will be rather below the average.

FURTHER OUTLOOK

Rather unsettled conditions, but a mainly fair interval over most of the British Isles.

Forecasts issued at 10·30.

N. K. JOHNSON, D.Sc. A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2


7h. Monday 27th July 1942.
HIGH
LOW
LOW
1010
1012
1014
1008
1006
1004
1002
STATION MODEL
High Cloud
Medium cloud
Temperature °F.
Present weather
Visibility
Dew Point °F
Low cloud
Total Amount of cloud
Wind
Barometer mb.
Bar. change in past 3 hours in 10mbs.
Weather in past hour
Past weather
Amount of Low cloud
Height of Low cloud
Scale 1 : 5,000,000.

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).

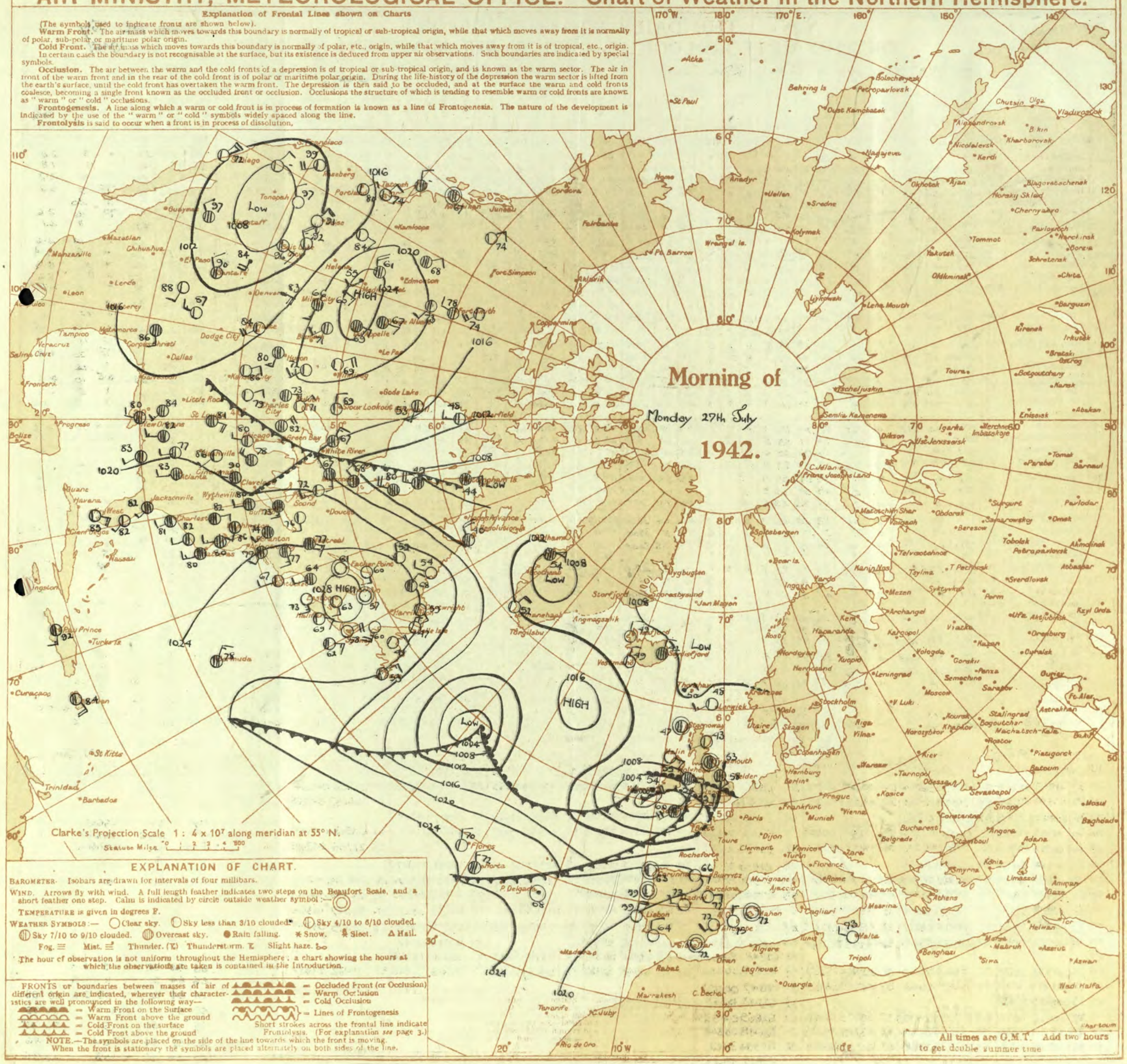
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Monday 28th July 1942
No. 29467

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)	°F Dew Point (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	58	*	*	*	*	*	*	*	*	*
	Croydon	290	20·6	-28	S	3	ir₀	55	97	54	8	5	7	-	4-6	10	2000
	S. Farnborough	226	09·9	-26	S	3	r₀r₀	55	92	53	7	6	2	-	7-8	10	1000
	Boscombe Down	417	09·0	-34	E'S	3	RR	54	97	54	6	6	2	-	7-8	10	600
	Thorney Island	10	09·8	-34	SE'E	3	iR	55	97	53	5	5	-	-	10	10	1600
	Lympne	283	13·3	-16	SW	1	r₀r₀	56	92	54	7	5	2	-	9	10	2500
	Manston	154	11·8	-20	S	2	Z₀	56	97	55	6	5	7	-	7-8	10	2000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	14·5	-2	S'W	2	c	60	85	55	7	5	-	-	10	10	4000
	Gorleston	5	12·3	-10	WSW	1	c	58	75	52	7	5	-	-	10	10	1500
	Mildenhall	15	10·7	-18	SE	2	c	57	85	53	8	5	7	-	2-3	10	4000
	Cranwell	203	10·3	-14	SSE	1	c	55	92	53	7	5	2	-	4-6	10	3000
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·8	-22	S'E	1	rr	55	97	53	6	5	-	-	10	10	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	03·8	-42	E	3	rr	54	97	53	6	5	2	-	7-8	10	1500
	Bristol	209	07·8	-40	SSE	3	rr	54	97	52	6	5	2	-	10	10	3100
	Portland Bill	32	08·1	-34	E	4	rr	56	92	54	7	5	-	-	10	10	2500
	Plymouth	82	04·3	-48	SSW	5	d₀d₀	60	97	60	4	5	-	-	10	10	1500
	The Lizard	240	03·8	-24	SW'W	5	rf	60	97	60	2	5	-	-	10	10	400
	Scilly (St. Mary's)	163	02·8	-12	SW	4	c	60	97	60	7	8	8	8	4-6	7-8	1000
	Guernsey	175															
6	Pembroke	142	03·2	-44	ESE	6	r₀r₀	55	97	54	7	8	2	-	7-8	10	1500
7	Holyhead (Valley)	32	07·6	-18	E	2	d₀d₀	54	97	53	6	-	2	-	10	10	1800
	Chester (Sealand)	16	09·3	-18	-	0	r₀r₀	54	92	52	6	5	2	-	2-3	10	2900
8	Manchester	235	09·7	+12	NE	2	ir₀	53	92	52	6	5	2	-	4-6	10	2500
10	Spurn Head	29	11·3	-6	SE	2	c	56	85	54	7	5	1	-	4-6	7-8	4000
	Catterick	175	10·7	-10	WNW	1	c	49	97	48	8	5	7	7	1	10	4000
	Tynemouth	108	11·0	0	-	0	c	53	85	49	6	5	-	-	7-8	7-8	2500
11	St. Abbs Head	280	10·1	0	SW	2	bc	53	85	49	7	5	-	-	4-6	4-6	2500
	Leuchars	36	09·8	-2	-	0	c	51	97	51	8	3	-	6	2-3	9	3000
12	Renfrew (Abbots I.)	19	09·3	+2	-	0	bc	45	92	43	8	4	-	6	2-3	7-8	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	09·1	+8	S	2	r₀r₀	54	92	52	7	6	2	-	10	10	4800
13A	Tiree	22	09·9	0	-	0	b	44	92	42	9	-	-	5	0	Tr	-
13B	Stornoway	80	10·1	0	-	0	bc	47	97	47	8	5	3	-	2-3	4-6	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	10·9	+2	SW	1	b	43	97	42	9	5	4	-	1	1	3000
	Wick	114	10·3	-6	-	0	Fg	49	92	47	9	4	7	5	Tr	2-3	3500
16	Sumburgh	19	10·5	+2	WSW	2	b	50	85	47	8	-	4	-	0	1	-
17	Blacksod Point	18	07·4	+2	ENE	4	bc	55	97	54	8	2	-	2	2-3	2-3	1500
18	Malin Head	84	08·8	-2	ESE	3	bc	55	85	51	8	8	-	-	7-8	7-8	2500
	Aldergrove	268	08·7	-2	-	0	r₀r₀	53	97	52	7	5	-	-	10	10	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	02·4	+18	E	3	c	57	92	55	8	5	-	-	9	9	2500
	Roches Point	22	00·8	-14	E	8	dd	55	97	55	6	5	-	-	10	10	250

OBSERVATIONS at 7 hr. G.M.T. 27th 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)	°F Dew Point (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F (35)	Rainfall Day 7h–18h mm. (36)	Night 18h–7h mm. (37)	Sunshine 26th Hrs. (38)
London (Kew)	01·7	-40	S'E	1	d₀d₀	60	97	59	6	6	2	-	9	10	1500	1	*	66	54	52	-	9	2·0
Croydon	01·8	-48	S	3	d₀d₀	60	97	60	6	6	2	-	9+	10	500	1	*	66	64	51	-	11	1·8
S. Farnborough	01·1	-38	SSW	3	d₀d₀	61	97	61	6	5	-	-	10	10	400	1	*	68	52	50	-	9	2·2
Boscombe Down	02·1	-24	SW'W	3	id₀	60	97	60	5	6	2	-	9	10	200	1	*	64	53	53	Tr	15	0·8
Thorney Island	03·1	-16	WSW	2	id₀	61	97	60	6	5	-	-	10	10	500	1	*	66	56	*	Tr	20	*
Lympne	05·1	-62	SSE	3	dF	59	97	59	1	-	-	-	10	10	<150	1	§5	64	54	*	Tr	16	2·6
Manston	04·9	-34	SE'S	3	RR	59	97	58	5	6	2	-	7-8	10	400	1	*	68	55	52	-	8	4·1
Shoeburyness	04·6	-35	SSE	4	c/r	60	97	58	8	6	2	-	9	10	700	1	*	70	56	54	-	10	4·6
Felixstowe	*	*	SE'E	5	rr	58	97	57	5	6	2	-	9+	10	800	1	2	71	50	50	-	4	6·4
Gorleston	07·0	-28	SSE	4	rr	57	85	53	6	6	-	-	10	10	700	1	3	69	57	54	-	3	8·8
Mildenhall	04·5	-34	NE'E	4	rr	55	97	54	5	-	2	-	10	10	600	1	*	68	53	52	-	11	5·2
Cranwell	06·2	-14	ENE	3	rr	54	97	54	6	6	2	-	9+	10	800	1	*		53	51	-	5	6·7
Birmingham	05·4	-8	NE	3	rF	52	97	52	3	6	-	-	10	10	450	1	*	66	50	50	-	11	4·5
Upper Heyford	02·9	-24	NE'N	3	dd	53	97	52	5	-	2	-	10	10	300	1	*	67	52	*	-	17	*
Ross-on-Wye	03·6	-10	N'E	2	d₀d₀	54	97	53	5	5	-	-	10	10	400	1	*	66	53	52	-	14	1·0
Hartland Point	02·2	+2	WNW	3	Fr	59	97	59	3	-	-	-	10	10	4000	0	3	60	58		Tr	18	
Bristol	03·5	-2	N	2	dd₀	54	97	54	4	-	2	-	10	10	500	1	*	66	53	53	Tr	20	0·8
Portland Bill	02·9	-8	SW	4	o/r	58	92	56	7	5	-	-	10	10	2500	1	4	59	55	*	1	14	*
Plymouth	03·3	+6	W'S	2	Z₀	59	97	59	6	5	-	-	10	10	1000	1	2	62	55	55	0·5	10	0·4
The Lizard	03·9	+6	SW	5	c/pr	58	97	58	7	8	-	-	9	10	1500	1	5	62	54	*	1	5	0·2
Scilly (St. Mary's)	04·3	+2	WNW	4	ir₀	58	92	58	6	8	-	-	10	10	1000	1	4	63	57	*	1	2	4·0
Guernsey																							
Pembroke	03·8	+22	NNE	5	c	55	92	53	8	8	1	-	4-6	7-8	2000	1	3	61	48	*	0·4	16	0·4
Holyhead (Valley)	06·4	+6	ENE	4	c/r	55	92	53	6	7	-	-	9+	9+	1500	1	3	63	52	52	0·6	12	*
Chester (Sealand)	07·2	+2	NE'N	3	rr	53	92	51	6	5	2	-	4-6	10	4000	1	*	63	53	52	0·3	9	1·9
Manchester	07·0	-6	NE'N	3	rr	51	97	51	5	6	2	-	10	10	2500	1	*	63	51	51	0·1	6	*
Spurn Head	08·5	-6	NE	3	r₀r₀	55	97	53	6	-	2	-	10	10	2500	1	2	64	54	*	-	3	6·5
Catterick	09·5	+2	-	0	r₀r₀	51	97	51	3	6	2	-	2-3	10	2800	1	*	65	49	41	Tr	2	8·9
Tynemouth	10·2	+2	NNW	3	c	52	92	52	6	8	-	-	9	9	2400	1	2	60	51	49	2	-	*
St. Abbs Head	09·9	+4	WNW	2	fs	50	97	50	7	5	-	-	2-3	2-3	3000	0	2	58	49	*	3	-	*
Leuchars	09·8	+4	N	1	c	53	97	52	7	5	-	-	10	10	1000	1	*	64	51	47	4	-	6·5
Renfrew (Abbots I.)	10·4	+6	-	0	Z₀	45	97	44	5	-	1	-	0	2-3	-	1	*	64	37	34	1	Tr	6·5
Eskdalemuir	09·3	+2	N	2	bc	52	85	46	8	5	7	-	4-6	4-6	2500	0	*	62	41	37	5	-	8·2
Point of Ayre	08·6	+4	E'N	3	c	56	85	52	8	8	7	-	2-3	9+	1000	1	3	67	53	*	Tr	3	8·7
Tiree	10·3	+6	N'E	2	b	54	92	51	9	1	-	5	1	2-3	3500	0	2	60	44	*	-	-	10·7
Stornoway	10·1	+2	-	0	bc	51	92	49	8	1	4	-	1	2-3	3500	1	1	57	45	*	-	-	18·7
Dalwhinnie	10·2	0	-	0	b	48	92	46	8	2	-	-	1	1	2500	1	*	58	39	31	2	0·4	3·8
Aberdeen †	10·7	0	NNW	2	Z₀	47	97	47	6	8	-	-	1	1	2600	1	2	58	41	37	-	-	5·2
Wick	10·0	+2	SE	1	bc	53	92	50	9	8	3	-	2-3	4-6	2500	0	*	58	44	37	-	-	*
Sumburgh	09·8	-4	SSW	3	c	51	92	49	8	5	3	2	Tr	7-8	900	0	2	55	49	43	Tr	-	6·3
Blacksod Point	11·3	+28	N	4	c	56	97	55	8	4	-	-	9	9	2500	1	4	61	53	*	5	1	*
Malin Head	10·1	+14	NNE	3	c	55	85	51	8	8	2	-	4-6	7-8	2500	1	3	58	54		-	Tr	11·4
Aldergrove	09·7	+14	ENE	1	c/pr	54	97	53	6	8	3	-	4-6	9+	1500	1	*	67	52	51	Tr	4	6·8
Birr Castle	08·9	+30	NNE	1	c	55	92	53	8	8	7	-	7-8	9	1500	1	3	59	53	52	7	11	0·0
Valentia Obsy.	09·1	+34	NNE	4	c/d	56	92	52	8	5	-	-	9+	9+	1500	1	3	61	55	52	9	0·6	0·0
Roches Point	07·4	+42	N	3	c	55	92	53	9	5	-	-	9+	9+	1500	1	4	58	54	*	5	15	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h G.M.T. 26th July C_LC_M	wwVhN$_h$	DDFWN	18h G.M.T. C_LC_M	wwVhN$_h$	DDFWN	01h G.M.T. 27th July C_LC_M	wwVhN$_h$	DDFWN	07h G.M.T. C_LC_M	wwVhN$_h$	DDFWN
109	23	01964	25314	8-	02954	32314	04	00990	00012	3-	02876	18316
115	53	02954	28125	54	01953	08224	53	02954	12125	54	02954	16225
203	20	00952	32212	20	00952	04202				14	01952	08214
206	80	01963	08323	23	02961	08285	53	01964	00014	5-	02865	24125
210	20	00962	02203	16	00962	06303	03	01990	08114	57	25845	23387
220	53	01954	24115	50	01953	24103				10	01953	27103
230	87	01954	18384	23	00962	20313	40	00961	12101	50	00951	00001
245	93	25864	10285	86	01863	12214	53	01772	31115	53	02846	00027
260	3-	01864	21214	8-	01863	21214	10	02761	21116	5-	05548	21128
278	83	01953	24214	87	02953	20227	57	61844	12268	53	02864	08166
279	36	01963	54414	24	01963	53415	52	22854	07168	53	02875	02266
285										02	62748	10368
288	96	25847	02187	26	02864	08185	51	02763	16218	52	62663	00068
575	20	02954	26126	72	62865	12168	57	61745	08167	5-	02847	00027
301	23	02953	24585							52	62743	10368
321	87	02865	22427	45	02753	24325	57	05675	10168	62	62665	04368
299	84	02765	24315	80	01764	32214	50	03768	22128	3-	62648	08368
292	86	25954	21386	20	01952	23285	07	61790	00028	52	62594	31168
310										--	67209	08569
614	83	02754	24224	51	02675	26228	62	62654	04168	02	64438	06268
333	23	02864	20426	52	62754	18268	62	62744	06368	5-	01754	04264
334										→	64457	04268
340	27	02965	22325	62	62878	23228	52	61664	10368			
136	23	02854	23326	83	02854	22125	57	02773	11168	62	64513	04258
336										52	22755	04368
350	21	02855	21328	87	02875	18317	57	61766	14367			
368	87	02954	20487	57	22854	28168	62	93636	09498	62	616 34	04298
379	77	02964	20427	77	02964	20417	02	64628	20368	02	62408	06468
390	83	02865	23327	73	01764	22326	07	02690	14228	52	56327	10368
382	8-	02967	25227	73	02976	19287	52	66665	10268	62	51525	04358
438	8-	02767	23317				82	62744	16167			
430	52	02855	20327	55	0285	17226	5-	66648	14358			
400	59	61945	22367	57	22844	15466	5-	22418	19468	5-	41412	24447

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_LC_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	Afternoon	Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew	ccy	cy	c r₀r₀r₀d₀	Kew 24 hours ended 7h. Max. Time
Croydon	cy	ccyc	c l r₀ ir₀	
Greenwich	0. cy	cy	crRddm	
Camden Square	c	c	*	
Kensington	bc	bc	*	Min. Time
Hampstead	bc	bc	or	

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	9h % To-day
Kew	66	54	52	-	9	2·0	*	*
Croydon	66	64	51	-	11	1·8	*	*
Greenwich	70	54	52	-	11·9	2·8	49	98
Westminster	68	55		9·8			69	99
Regents Park	69	54	52	-	9		70	95
Camden Square	69	55	54	-	10·4	*	*	96
Kensington	69	54	53	-	10·3		63	96
Hampstead	67	52	51	-	11·0		*	100

SECRET

Page 1

BRITISH SECTION

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

Tuesday 28th July 1942

No. 29168

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)	07·0	+30	N'E	4	c	61	75	51	8	8	–	–	9+	9+	2500
	Croydon ...	06·0	+38	NNW	3	c	59	85	56	7	9	–	–	9	10	1400
	S. Farnborough	06·9	+42	N'W	3	c	61	75	54	8	5	–	–	10	10	1000
	Boscombe Down	03·2	+60	N'E	4	c	60	85	54	8	8	–	–	10	10	1800
	Thorney Island	06·6	+12	NNW	3	c	65	75	55	8	5	–	–	7-8	7-8	1500
	Lympne ...	04·9	+6	WNW	3	c/r	61	92	61	6	2	–	–	9+	9+	900
	Manston ...	03·7	+10	WNW	4	c/pr	62	97	61	6	5	5	–	7-8	9	1200
2	Shoeburyness ...	05·0	+4	NNW	4	c	61	85	56	8	5	–	–	10	10	900
	Felixstowe ...	03·4	+16	N	5	c	58	85	54	8	5	–	–	9+	9+	2500
	Gorleston ...	04·9	+6	NE'E	5	rr	55	92	52	6	6	–	–	10	10	500
	Mildenhall ...	06·6	+30	N'E	4	c	59	85	54	8	5	–	–	10	10	700
	Cranwell ...	08·8	+22	NE'N	4	c	60	75	52	8	8	3	–	7-8	7-8	2000
3	Birmingham ...	09·4	+30	NNE	4	c	60	65	48	7	8	–	–	7-8	7-8	2500
	Upper Heyford	08·1	+38	NNE	4	c	58	85	52	8	8	–	–	10	10	2000
4	Ross-on-Wye	09·0	+26	NNE	4	bc	63	75	53	6	2	–	–	4-6	4-6	3000
5	Hartland Point	09·5	+44	N	3	bc	61	92	55	7	2	4	–	4-6	4-6	2000
	Bristol ...	09·6	+34	NNE	4	o	59	85	55	7	5	–	–	10	10	1500
	Portland Bill ...	07·9	+40	NW	3	c	63	92	61	8	2	4	–	4-6	10	220
	Plymouth ...	08·6	+32	NW	3	c	65	85	59	8	8	–	–	9+	9+	2000
	The Lizard ...	09·1	+30	N	3	c	63	85	58	8	8	6	–	7-8	9+	1500
	Scilly (St. Mary's)	10·8	+38	N'W	4	c	61	85	57	8	8	–	–	10	10	1200
	Guernsey ...															
6	Pembroke ...	10·8	+34	NE'N	4	bc	65	65	52	8	2	6	–	4-6	4-6	2500
7	Holyhead (Valley)	11·4	+24	NE'N	4	bc	62	65	50	8	1	–	–	2-3	2-3	3000
	Chester (Sealand)	10·2	+20	N	2	z_o	61	75	53	6	8	–	–	9	9	5000
8	Manchester ...	09·9	+18	NNE	3	bc	61	75	53	6	2	6	–	2-3	7-8	2500
10	Spurn Head ...	09·4	+14	NNE	4	c	59	85	55	7	5	2	–	4-6	7-8	1500
	Catterick ...	11·2	+14	NNE	3	z_o	61	65	49	6	8	–	–	7-8	7-8	2500
	Tynemouth ...	11·3	+6	NE	3	bc	59	85	54	8	2	–	–	2-3	2-3	3200
11	St. Abbs Head	11·1	0	SW	2	z_o	55	65	41	7	2	–	–	2-3	2-3	2500
	Leuchars ...	11·1	+4	E	1	bc	62	85	58	7	2	–	1	4-6	4-6	2000
12	Renfrew (Abbotsinch)	11·5	+6	NNW	3	bc	65	65	54	9	2	–	6	4-6	7-8	4000
	Eskdalemuir ...	10·7	+10	NNE	1	bc	62	55	45	8	7	–	–	4-6	4-6	2500
	Point of Ayre ...	11·9	+12	NNW	2	b	64	75	56	8	1	4	1	Tr	1	3000
13A	Tiree ...	13·7	+18	NNW	2	bc	59	65	48	9	1	–	6	2-3	7-8	3500
13B	Stornoway ...	12·2	+14	WNW	3	c	60	75	50	9	2	6	–	4-6	7-8	3000
15	Dalwhinnie ...	12·1	+8	N	2	c	62	45	44	8	8	–	8	4-6	9+	4000
	Aberdeen ...	11·9	+10	S'E	3	z_o	58	75	50	6	8	–	–	7-8	7-8	2200
	Wick ...	11·2	+8	–	0	pr	55	85	51	9	9	7	–	4-6	7-8	2500
16	Sumburgh ...	09·9	0	SW'S	4	c/pr	53	92	51	8	8	4	–	7-8	7-8	1500
17	Blacksod Point	16·0	+22	N	3	bc	60	97	59	9	8	–	–	4-6	4-6	4000
18	Malin Head ...	13·8	+18	NNE	2	bc	58	75	50	9	7	–	1	2-3	4-6	2500
	Aldergrove ...	12·9	+14	NW'N	1	c	63	65	52	8	2	6	1	7-8	7-8	2000
19	Birr Castle ...	13·5	+24	N	7	c	66	65	54	8	8	7	–	7-8	9	1500
20	Valentia Obsy.	16·2	+26	N	3	bc	63	65	51	9	5	–	3	4-6	4-6	4000
	Roches Point	13·3	+34	N	4	c	64	75	56	8	8	–	–	7-8	7-8	2500

OBSERVATIONS at 18h. 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)	13·1	+34	N	3	c	62	65	49	8	8	3	–	4-6	9+	1500	1	*
	Croydon ...	12·4	+34	N	3	c	61	75	52	7	8	3	–	9	10	3000	1	*
	S. Farnborough	12·8	+30	N'W	2	c	62	65	52	8	8	7	–	9	9+	2500	0	*
	Boscombe Down	13·8	+34	NE'N	3	bc	64	65	51	8	2	6	–	1	2-3	3000	0	*
	Thorney Island	12·8	+30	N'W	3	c	64	75	54	8	8	6	–	7-8	9	4000	0	*
	Lympne ...	12·3	+34	NNE	4	bc	59	85	53	8	2	6	–	4-6	4-6	2500	1	4
	Manston ...	11·1	+40	N'W	4	bc	60	75	52	8	2	6	–	2-3	2-3	1500	1	*
2	Shoeburyness ...	12·3	+38	NNW	3	bc	61	75	52	8	5	–	–	4-6	4-6	3500	1	*
	Felixstowe ...	11·0	+26	NW	3	bc	59	75	50	8	8	–	–	4-6	4-6	4000	1	3
	Gorleston ...	11·1	+36	N	4	c	59	75	52	7	8	–	–	9	9	1500	1	5
	Mildenhall ...	12·3	+34	N'W	3	bc	60	75	51	8	2	–	–	4-6	4-6	2500	1	*
	Cranwell ...	12·9	+24	NE'N	3	b	61	75	52	8	4	–	–	1	1	2500	1	*
3	Birmingham ...	13·8	+24	N	2	c	62	65	50	6	5	3	–	1	7-8	2500	1	*
	Upper Heyford	13·2	+24	NNE	3	c	61	75	51	8	7	–	–	2-3	9+	2500	1	*
4	Ross-on-Wye	13·5	+32	N	2	c	65	65	52	7	5	–	–	7-8	7-8	4000	1	*
5	Hartland Point	14·2	+28	NNW	2	b	60	92	57	8	2	–	–	Tr	Tr	2000	1	3
	Bristol ...	13·8	+24	N'E	2	z_o	64	65	51	6	5	3	–	4-6	9+	4000	1	*
	Portland Bill ...	13·6	+24	NE	2	c	63	92	61	8	5	–	–	10	10	4000	1	4
	Plymouth ...	13·8	+32	SSW	1	c	64	85	59	7	8	–	–	9	9	2500	0	2
	The Lizard ...	13·5	+10	NW	3	c	62	85	57	8	8	6	–	7-8	7-8	2000	1	3
	Scilly (St. Mary's)	15·0	+20	NW'N	3	b	62	85	56	6	1	–	–	Tr	Tr	1500	0	4
	Guernsey ...																	
6	Pembroke ...	15·7	+20	N'E	4	b	61	75	53	8	–	–	–	0	0	–	0	4
7	Holyhead (Valley)	15·0	+18	N'W	3	b	60	65	48	9	–	4	–	0	Tr	–	1	2
	Chester (Sealand)	14·0	+24	NW'N	4	b	61	75	53	8	–	4	–	0	Tr	–	0	*
8	Manchester ...	13·1	+20	WNW	4	bc	62	75	54	6	2	6	–	4-6	4-6	2500	0	*
10	Spurn Head ...	13·1	+18	N'E	4	bc	59	85	55	7	1	7	–	1	2-3	4000	1	3
	Catterick ...	13·4	+16	NE	1	z_o	62	65	50	6	5	–	–	4-6	4-6	5700	0	*
	Tynemouth ...	13·7	+10	E	2	bc	60	85	55	8	2	3	–	2-3	4-6	3200	1	2
11	St. Abbs Head	12·2	+8	SE	2	z_o	58	85	52	7	5	4	–	2-3	4-6	4000	0	2
	Leuchars ...	12·3	+10	NNE	2	c/pr	58	97	57	6	9	6	3	7-8	7-8	1800	1	*
12	Renfrew (Abbotsinch)	13·5	+12	WNW	4	bc	63	75	56	9	1	3	4	2-3	4-6	3000	0	*
	Eskdalemuir ...	12·5	+12	WNW	3	bc	61	55	44	8	8	–	1	2-3	4-6	2800	0	*
	Point of Ayre ...	14·8	+10	NNW	3	b	62	75	53	8	1	–	1	Tr	1	2500	0	3
13A	Tiree ...	15·6	+8	NW'N	2	b	58	75	52	9	1	4	5	1	1	3500	0	3
13B	Stornoway ...	14·1	+10	WNW	3	bc	59	75	51	8	2	–	–	4-6	4-6	3500	0	1
15	Dalwhinnie ...	13·4	+14	W	2	c	58	55	41	8	8	–	2	4-6	7-8	4000	0	*
	Aberdeen ...	13·0	+12	–	0	c/pr	55	92	53	6	9	–	–	9+	9+	1900	1	1
	Wick ...	12·9	+16	NW	4	bc	58	92	55	9	8	4	–	4-6	4-6	2000	0	*
16	Sumburgh ...	10·5	+2	SW	4	bc	54	85	51	9	8	7	–	4-6	4-6	2000	0	2
17	Blacksod Point	18·0	+10	N'W	2	bc	59	75	51	9	2	–	4	1	2-3	4000	0	2
18	Malin Head ...	16·3	+14	NNW	3	bc	58	65	46	9	2	–	–	4-6	4-6	2500	0	3
	Aldergrove ...	15·9	+20	N'W	3	b	61	65	48	9	1	–	1	1	1	3000	0	*
19	Birr Castle ...	15·5	+10	NNW	1	c	65	65	53	8	8	–	–	7-8	7-8	1500	1	*
20	Valentia Obsy.	17·8	+16	NNW	4	b	60	75	52	9	2	–	–	1	1	2500	1	4
	Roches Point	16·4	+18	N	2	bc	65	75	57	9	8	–	–	4-6	4-6	2500	1	3

PAST 24 HOURS.

District	Stations	Weather 7h.–13h. 27th (39)	Weather 13h.–18h. 27th (40)	Weather 18h. 27th to 1h. 28th (41)	Weather 1h.–7h. 28th (42)
1	London (Kew)	cd d_o m_o c	cid$_o$c	cbcbw	bbccm$_o$w
	Croydon ...	cd$_o$d$_o$cm$_o$	cir$_o$bc	c,bw	bwf$_g$m$_o$
	S. Farnborough	cd$_o$irm$_o$c	cbccir$_o$c	cbwm$_o$	bwjf$_g$bcm$_o$
	Boscombe Down	c	cbc	bm$_o$	bfgbm$_o$w
	Thorney Island	id$_o$ir$_o$	c	cbm$_o$	bm$_o$fgw
	Lympne ...	crm$_o$crr	cbc	bcb	b,bfgbm$_o$
	Manston ...	crrd$_o$prm$_o$	cm$_o$c	bcbw	bwm$_o$
2	Shoeburyness ...	cir$_o$m$_o$	cbcir$_o$v	cbc	bcbw
	Felixstowe ...	cddcrrc	cd$_o$d$_o$cbc	bbm$_o$	bm$_o$bmbm$_o$
	Gorleston ...	r$_o$f$_o$	cbcc	bcbw	bwfif
	Mildenhall ...	crrm$_o$cd$_o$c	ccir$_o$cbc	bm$_o$w	bm$_o$wf$_g$bm$_g$w
	Cranwell ...	crrm$_o$c	cbcb	bcc	bmbcm$_o$
3	Birmingham ...	dor$_o$r$_o$c	c	cb	bbcm
	Upper Heyford	c	c	bccb	bm$_o$bcm$_o$
4	Ross-on-Wye	m$_o$idc	bcc	cbm$_o$	bmcfbf
5	Hartland Point	fdmcbc	bccbc	bbc	bbc$_o$bc
	Bristol ...	m$_o$d$_o$d$_o$c	cuz$_o$cbc	cz$_o$bmf	bf, m$_o$
	Portland Bill ...	ccv	c	bc	bc
	Plymouth ...	cd$_o$d$_o$pr$_o$	c	cbcbm$_o$	bm$_o$w
	The Lizard ...	cprmc	c	bccw	bcc
	Scilly (St. Mary's)	cir$_o$d$_o$	cbcb	b	cwbc
	Guernsey ...				
6	Pembroke ...	bc	bcc	bbw	cbcw
7	Holyhead (Valley)	cbcb	b	bfgw	bcf$_g$c
	Chester (Sealand)	crrz$_o$	cb	b	bccm$_o$z$_o$
8	Manchester ...	rrbcm$_o$	cz$_o$	bcbm$_o$	mFf
10	Spurn Head ...	cm$_o$	bc	bc	bcz$_o$
	Catterick ...	cmr$_o$cz$_o$	cz$_o$cbcz$_o$	cz$_o$bm$_o$	bm$_o$bw
	Tynemouth ...	bc	bc	bcb	bbc
11	St. Abbs Head	bcm$_o$cm$_o$bm$_o$	bbcm$_o$	bcm$_o$bcm$_o$	bm$_o$bcc
	Leuchars ...	cbc	bccprpr$_o$m$_o$	bcm$_o$f$_g$	bafgbcc
12	Renfrew (Abbotsinch)	bz$_o$bc	cbc	bw	bwf$_g$c
	Eskdalemuir ...	bcy	bcy	bcb	bbc
	Point of Ayre ...	cbcb	b	b	bbcc
13A	Tiree ...	bcc	cbcb	b	bbcc
13B	Stornoway ...	bcc	cbc	cbc	bccpr
15	Dalwhinnie ...	b,cy	cy		cbcc
	Aberdeen ...		cpr	cpr$_o$bc	bcw
	Wick ...	cprccpr	bcbbcv	bcbbc	bcb
16	Sumburgh ...	cpr$_o$c	cpr$_o$bcbbc	bcc,b	bbcc,b
17	Blacksod Point	bc	b	c	c
18	Malin Head ...	c	bc	bc	bc
	Aldergrove ...	cpr$_o$c	cbcb	bw	bccw
19	Birr Castle ...	d	c	*	c
20	Valentia Obsy.	bc	bc	bc	bc
	Roches Point	c	c	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 28th July 1942

Districts	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light variable winds; fine; some local mist droond dawn; average temperature.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light or moderate West to Southwest wind; mainly fair but some local showers, average temperature
13A W. Scotland ... 13B N.W. Scotland	Light to moderate West to Southwest wind; fair at first apart from local showers; cloudy with occasional rain later; average temperature
14 Mid Scotland 15 N.E. Scotland	As 11-12
16 Orkneys and Shetlands	As 11-12.
17 N.W. Ireland	As 13A-B.
18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 0-10.

GENERAL INFERENCE

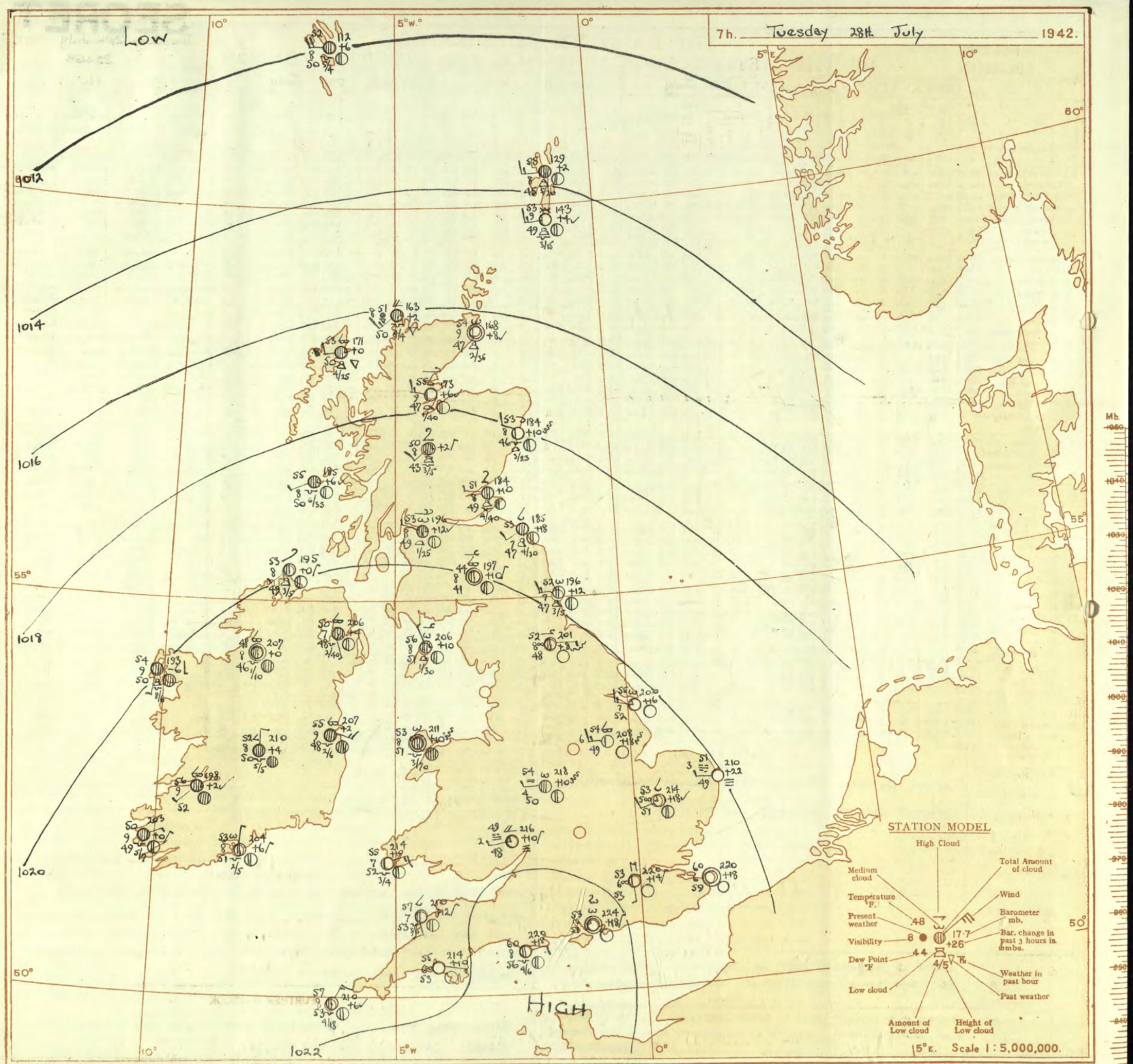
An anticyclone centred to the South of the British Isles is moving eastwards. Weather will be fine in southern districts, and fair at first in the North apart from scattered showers. Occasional rain will occur later on our Northwest seaboard. Temperatures will be about normal.

FURTHER OUTLOOK

Remaining fine and becoming warmer in the South. Rather unsettled in the North.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc. A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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.

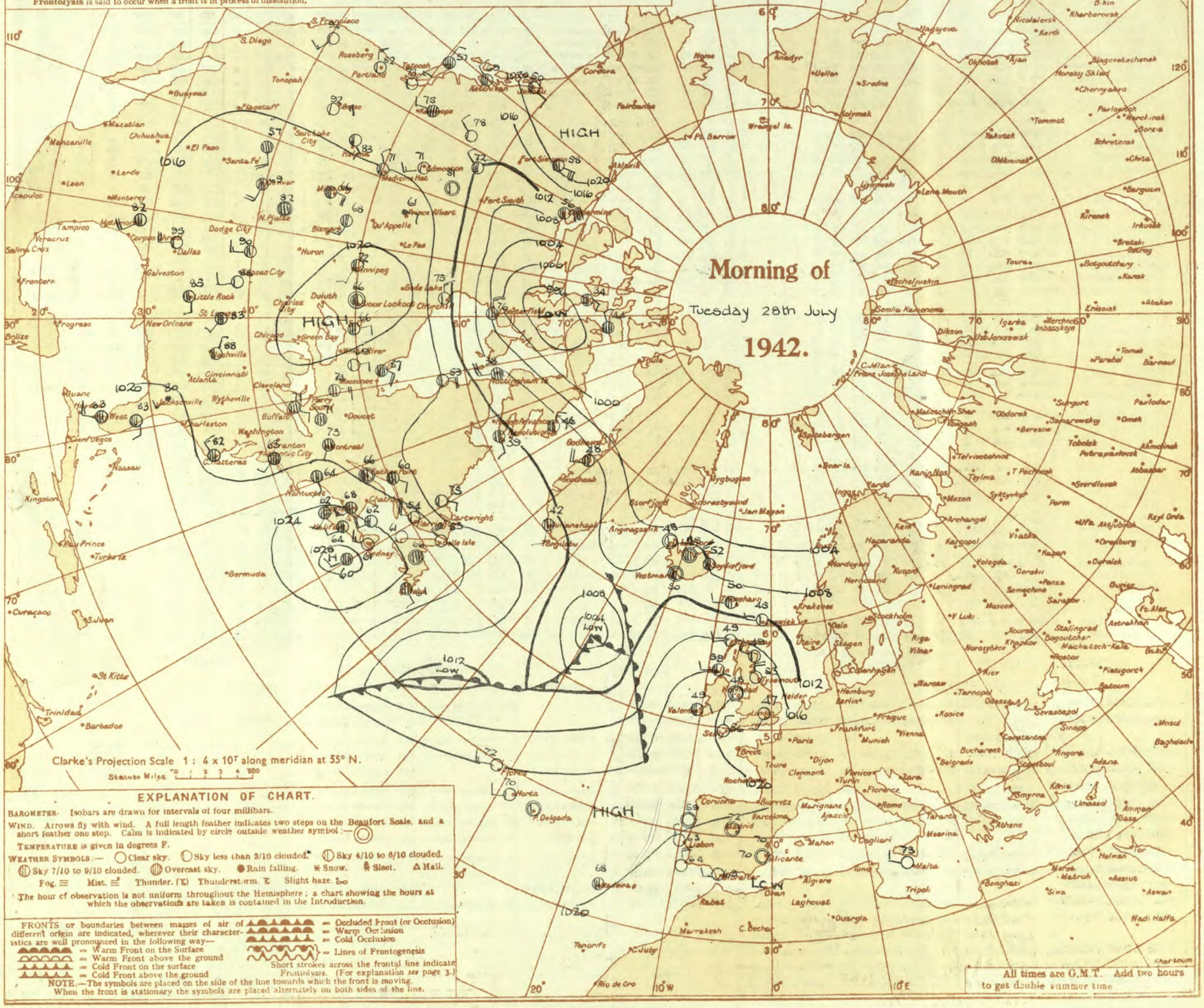
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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.



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.

BRITISH SECTION

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

Tuesday 28th July 1942

No. 29468

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)	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	*	*	*	*	*		*	*	*	*	*	*	*	*	*
	Croydon	290	19·5	+18	SSW	1	Z_0	47	97	46	5	–	4	–	0	Tr	–
	S. Farnborough	226	19·5	+22	–	0	fg	48	92	46	6	–	–	–	0	0	–
	Boscombe Down	417	19·6	+20	–	0	Z_0	52	92	50	6	–	–	–	0	0	–
	Thorney Island	10	19·3	+20	N'E	1	Z_0	51	97	50	6	–	–	–	0	0	–
	Lympne	283	17·3	+24	W	1	b	53	65	43	8	–	–	–	0	0	–
	Manston	154	18·9	+26	NNW	1	b	52	92	50	7	–	–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	18·5	+26	NW	2	Z_0	54	92	52	6	–	–	–	0	0	–
	Gorleston	5	17·8	+18	NNW	3	Z_0	51	92	49	6	–	–	–	0	0	–
	Mildenhall	15	19·0	+22	WSW	2	Z_0	47	97	46	5	–	–	–	0	0	–
	Cranwell	203	18·1	+14	SSW	2	Z_0	53	92	51	6	5	–	–	9+	9+	4500
3	Birmingham	538	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18·8	+14	–	0	b	50	92	48	7	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·0	+16	ESE	2	b	57	92	55	8	–	–	–	0	0	–
	Bristol	209	20·2	+18	–	0	bf+	49	97	48	3	–	–	–	0	0	–
	Portland Bill	32	18·9	+20	NW	2	bc	59	85	55	8	1	–	–	4-6	4-6	4000
	Plymouth	82	19·8	+20	–	0	Z_0	54	92	52	6	–	–	–	0	0	–
	The Lizard	240	18·8	+24	N'E	3	c	57	85	53	8	8	–	–	7-8	7-8	2500
	Scilly (St. Mary's)	163	19·6	+10	N	2	b	56	92	53	7	–	–	–	0	0	–
	Guernsey	175															
6	Pembroke	142	19·8	+10	N'E	4	b	53	92	51	8	–	4	–	0	1	–
7	Holyhead (Valley)	32	19·7	+6	–	0	fg	48	97	47	8	–	4	–	0	Tr	–
	Chester (Sealand)	16	19·1	+18	NW'W	2	b	51	92	49	7	–	–	–	0	0	–
8	Manchester	235	19·0	+18	WSW	2	fg	48	97	48	5	–	–	–	0	0	–
10	Spurn Head	29	18·6	+22	WSW	2	bc	55	97	54	7	1	–	–	2-3	2-3	4000
	Catterick	175	18·4	+16	W	1	Z_0	50	85	45	6	–	–	–	0	0	–
	Tynemouth	108	16·9	+14	NNW	4	b	53	85	48	7	–	–	–	0	0	–
11	St. Abbs Head	280	16·5	+16	S	1	b	53	85	51	7	–	–	–	0	0	–
	Leuchars	36	16·6	+10	W	1	fg	50	97	50	6	8	–	–	4-6	4-6	3500
12	Renfrew (Abbots I.)	19	18·1	+18	W	2	b	50	92	47	8	4	–	5	Tr	1	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	19·4	+10	NNW	3	b	54	85	50	8	5	–	5	Tr	1	1500
13A	Tiree	22	18·5	+8	WNW	1	bc	47	97	46	9	1	4	1	Tr	2-3	2500
13B	Stornoway	80	16·4	+10	WSW	2	bc	49	92	48	8	2	–	–	2-3	2-3	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	16·8	+12	WNW	3	bc	49	85	46	9	5	–	–	2-3	2-3	5000
	Wick	114	15·9	+14	SW	1	bc	46	97	46	9	2	4	–	2-3	2-3	2000
16	Sumburgh	19	03·0	+12	NW'W	4	bc	50	85	46	9	8	3	–	1	2-3	2000
17	Blacksod Point	18	20·6	+8	–	0	c	51	97	50	8	8	3	–	7-8	10	2500
18	Malin Head	84	19·1	+6	WSW	1	bc	58	85	54	8	2	–	4	2-3	4-6	2500
	Aldergrove	268	20·2	+12	–	0	b	49	97	47	9	1	–	5	Tr	1	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	20·9	+10	NE'E	1	c	49	97	48	9	–	3	–	0	9	–
	Roches Point	22	20·2	+10	N	3	bc	56	97	55	8	5	3	–	Tr	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 28th 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)	22·3	+18	WSW	1	Z_0	54	92	51	5	5	–	–	9+	9+	4000	1	*
Croydon	22·0	+14	SSE	1	Z_0	53	97	53	6	–	8	–	0	2-3	–	1	*
S. Farnborough	22·7	+18	WNW	1	Z_0	49	97	49	6	5	4	–	2-3	2-3	3000	1	*
Boscombe Down	22·5	+26	–	0	Z_0	53	97	52	6	–	–	–	0	0	–	0	*
Thorney Island	22·4	+18	–	0	fog	53	92	51	6	–	3	1	0	Tr	–	1	*
Lympne	22·7	+14	–	0	Z_0	54	92	52	6	–	–	–	0	0	–	1	§2
Manston	22·0	+18	–	0	Z_0	55	92	53	6	–	–	–	0	0	–	1	*
Shoeburyness	21·8	+20	W	2	m	56	85	53	5	–	–	–	0	0	–	1	*
Felixstowe	21·6	+16	–	0	Z_0	53	92	52	6	–	–	–	0	0	–	1	1
Gorleston	21·0	+22	W	1	H	51	97	49	3	–	–	–	0	0	–	1	2
Mildenhall	21·4	+18	SW'W	2	Z_0	53	97	51	5	–	4	–	0	Tr	–	1	*
Cranwell	20·8	+18	W	3	Z_0	54	85	49	6	–	7	–	0	2-3	–	0	*
Birmingham	21·8	+10	W	1	m	54	85	50	4	–	3	–	0	7-8	–	1	*
Upper Heyford	21·8	+14	–	0	Z_0	53	92	51	6	–	4	–	0	2-3	–	1	*
Ross-on-Wye	21·6	+10	W'S	1	bf-	49	97	48	2	–	8	–	0	Tr	–	1	*
Hartland Point	21·0	+12	S	2	bc	56	92	53	7	5	4	–	2-3	4-6	1500	1	3
Bristol	22·1	+6	SSE	1	Z_0	54	92	53	6	–	3	–	0	2-3	–	1	*
Portland Bill	30·9	+18	E	2	bc	60	85	56	8	5	–	–	4-6	4-6	4000	1	3
Plymouth	21·4	+10	ESE	1	Z_0	55	92	53	6	–	–	–	0	0	–	0	2
The Lizard	20·4	+8	NE	2	c	58	85	54	7	8	6	–	7-8	7-8	2000	0	3
Scilly (St. Mary's)	21·0	+6	NE	3	bc	57	85	53	8	5	–	–	4-6	4-6	1800	0	2
Pembroke	21·4	+10	ENE	3	bc	55	92	52	7	5	–	–	2-3	2-3	1000	1	2
Holyhead (Valley)	21·1	+10	–	0	c	53	92	51	8	5	3	–	2-3	10	7000	1	1
Chester (Sealand)	21·3	+12	S'E	1	Z_0	51	85	47	6	–	7	–	0	9+	–	1	*
Manchester	21·2	+12	SE	2	c/f	51	97	51	5	–	3	–	0	9+	–	1	*
Spurn Head	20·0	+16	W'N	3	b	55	92	52	7	–	3	–	0	1	–	1	2
Catterick	20·1	+8	E	1	bc	52	85	48	8	–	–	8	0	4-6	–	0	*
Tynemouth	19·6	+12	W	3	bc	52	65	47	7	2	3	–	2-3	4-6	2500	1	2
St. Abbs Head	18·5	+18	WSW	2	c	53	85	47	7	2	4	–	4-6	7-8	3000	0	2
Leuchars	18·4	+10	W	1	c	51	85	49	8	8	–	6	4-6	7-8	4000	1	*
Renfrew (Abbots I.)	19·6	+12	W'N	1	c	53	85	49	8	1	3	2	Tr	9	2500	0	*
Eskdalemuir	19·7	+10	–	0	bc	44	85	40	8	–	7	8	0	4-6	–	1	*
Point of Ayre	20·6	+10	NNW	1	c	56	85	51	8	1	3	5	Tr	9	3000	0	2
Tiree	18·5	+6	SW'W	1	c	55	85	50	8	5	–	–	9	9	3500	0	2
Stornoway	17·1	0	WSW	2	c	53	85	49	8	2	7	–	4-6	9	2500	1	1
Dalwhinnie	19·4	+2	SW	2	c	50	75	43	8	8	–	6	2-3	9	2500	1	*
Aberdeen †	18·4	+10	WNW	2	bc	53	75	46	8	7	–	3	2-3	2-3	2300	1	2
Wick	16·8	+8	–	0	bc	54	75	47	9	2	3	5	1	2-3	3500	0	*
Sumburgh	14·3	+4	SW'W	3	bc	53	85	49	9	8	6	–	1	2-3	1500	0	3
Blacksod Point	19·3	-6	S	1	c	54	85	50	9	8	–	–	10	10	4000	0	1
Malin Head	15·9	0	SW'S	1	bc	53	85	49	8	2	–	4	2-3	4-6	2500	1	2
Aldergrove	20·6	-4	SSE	1	c	50	92	48	7	5	7	–	1	10	4000	1	*
Birr Castle	20·1	+4	N	1	c	52	92	50	8	5	1	–	7-8	10	2500	1	*
Valentia Obsy.	20·3	0	NE'E	1	c	50	97	49	9	5	–	–	7-8	7-8	5700	1	2
Roches Point	20·4	+6	N	1	bc	53	92	51	8	5	3	–	1	4-6	2500	1	3

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 27th Hrs. (38)
London (Kew)	63	48	35	0·6	Tr	1·4
Croydon	64	44	44	2	0·1	1·2
S. Farnborough	65	42	35	2	Tr	2·5
Boscombe Down	65	45	41	1	Tr	3·0
Thorney Island	68	45	41	0·6	–	*
Lympne	63	46	*	3	–	1·6
Manston	68	47	37	2	Tr	1·1
Shoeburyness	65	48	35	0·2	–	0·8
Felixstowe	69	50	*	6	–	2·8
Gorleston	60	46	43	18	–	2·3
Mildenhall	63	44	37	9	0·6	4·2
Cranwell	*	48	39	5	–	5·9
Birmingham	64	45	39	1	–	2·0
Upper Heyford	63	46	40	0·5	–	*
Ross-on-Wye	66	46	43	0·1	–	2·9
Hartland Point	62	53	48	Tr	–	7·1
Bristol	66	45	36	0·1	–	3·3
Portland Bill	65	56	*	–	–	*
Plymouth	69	50	43	0·4	Tr	2·2
The Lizard	64	56	*	5	–	2·5
Scilly (St. Mary's)	63	55	*	0·1	–	4·2
Guernsey						
Pembroke	67	48	*	–	–	10·8
Holyhead (Valley)	64	47	38	Tr	–	*
Chester (Sealand)	66	45	39	0·4	–	7·1
Manchester	65	44	39	1	Tr	*
Spurn Head	61	54	*	5	Tr	7·3
Catterick	64	45	36	0·1	–	6·2
Tynemouth	60	49	46	–	–	*
St. Abbs Head	59	51	*	–	–	*
Leuchars	64	49	49	1	Tr	5·1
Renfrew (Abbots I.)	68	45	37	–	–	12·2
Eskdalemuir	66	32	30	–	–	10·0
Point of Ayre	65	53	*	–	–	12·6
Tiree	60	48	*	–	–	15·0
Stornoway	63	47	*	–	0·2	11·6
Dalwhinnie	63	40	31	–	–	11·5
Aberdeen †	60	43	38	3	0·1	5·6
Wick	61	44	37	–	Tr	*
Sumburgh	57	49	43	0·3	–	7·9
Blacksod Point	62	49	*	–	–	*
Malin Head	59	48		–	–	12·4
Aldergrove	65	41	38	Tr	–	8·5
Birr Castle	69	49	48	0·1	–	4·0
Valentia Obsy.	64	48	39	–	0·1	10·0
Roches Point	66	52	*	–	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 27th July			18h. G.M.T.			01h. G.M.T. 28th July			07h. G.M.T.		
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
10936	02864	25314	2-	02864	24514	40	00852	23212	80	02853	22313
11552	00954	03295				87	02844	24426	52	01844	20386
203			8-	25945	16185				8-	02847	16417
2068-	81964	10184	8-	02966	28116	53	01864	24215	14	00961	24313
21033	01953	25315	93	01964	06214	53	02965	21306	53	01962	19313
22070	01955	29315	73	01954	27314				73	01943	22214
23010	02953	20225	7-	01962	24313	00	01953	22213	24	02951	00026
24583	01854	12214	8-	81767	00087	5-	01975	25115	70	02965	24286
26010	01763	26124				40	01763	23203	03	02890	21208
27520	01862	29414	10	00961	28503	53	02952	28425	57	02732	18227
27020	01964	26114	26	00854	28314	50	01851	27203	53	02851	28128
28527	02855	04327									
28820	00763	04363	03	00890	06201	00	05500	19240	00	01890	19215
57520	01954	32124	6-	01954	32214	04	05590	00011	57	02841	00028
301			03	00890	29401	30	00861	28301	57	02752	28216
32120	02855	02365	86	01854	02215	07	00990	00003	03	05590	00044
29954	01753	32204	00	00790	32300	44	01754	32214	00	05690	22100
2922-	02855	05165	40	01862	07114	00	04590	00000	13	01661	00004
310--	01626	04516							--	01634	26314
61423	01755	04325	16	01763	04215	00	18490	24200	03	05590	20115

13h. G.M.T. 27th July			18h. G.M.T.			01h. G.M.T. 28th 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
33320	00863	32403				5-	01962	28202	03	02990	30125
334--	02454	04215							--	04347	08128
3402-	02765	02325	47	02761	22325	00	05690	25100	03	04790	22816
13652	02735	03268	10	01752	01322	--	18109	00019	00	05690	23240
33013	01753	04314	50	01754	04314				50	45313	04343
3590-	25636	30486	26	01854	01224	03	05690	18115	03	05590	21213
3698-	02754	32368	86	05666	24227	00	08490	03121	04	08490	00012
3798-	02857	32467	73	02963	02317	00	05690	24200	03	00790	02102
39952	02745	31358	84	02766	31227	00	05690	24100	50	08471	23111
88298-	02846	32326	77	02854	03115	00	01690	00000	03	05690	00041
43897	25614	22687	8-	02744	26224	00	00790	32310			
4305-	02857	64427	53	01754	30324				33	00790	00001
4095-	02837	01327	14	00851	01312	00	05690	00000	04	00790	12201

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 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	cdd$_0$mc	cld$_0$c	cbcm$_0$w	
Croydon	cd$_0$d$_0$c	cir$_0$bc	cpwfgn	
Greenwich	brc	brmc	bm$_0$w	Kew 24 hours ended 7h. Max. Time
Camden Square	c	c	*	0·1 07h. 28th
Kensington	c	bcw	*	Min. Time
Hampstead	orbc	bc	bc	0·1 07h. 27th

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	63	48	35	0·6	Tr	1·4	*	*
Croydon	64	44	44	2	0·1	1·2	*	*
Greenwich	54	45	32	1·3	–	1·1	75	71
Westminster	64	49	47	1·1			68	89
Regents Park	64	48	39	0·1	0·2	*	81	77
Camden Square	63	49	41	–	–	*	*	77
Kensington	65	48	37	1·0	–	*		73
Hampstead	62	54	52	0·2	–	*	*	8

SECRET

Page 1

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

Wednesday 29th July 1942

No. 29469

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)	21·4	-6	S	2	c	66	65	54	7	8	-	-	7·8	7·8	2500
	Croydon	21·9	-2	SSE	1	c	68	65	57	7	8	3	-	4·6	9+	3000
	S. Farnborough	21·8	-6	SW	2	c	68	55	51	8	8	6	-	7·8	7·8	4000
	Boscombe Down	21·9	-2	SSW	4	bc	69	55	50	8	8	-	-	4·6	4·6	3500
	Thorney Island	22·8	+2	S	3	b	65	65	53	9	-	4	-	0	Tr	-
	Lympne	22·9	+2	SSE	2	b	64	55	49	8	2	-	-	Tr	Tr	2500
	Manston	22·2	-6	SSW	2	b	69	45	49	7	2	-	-	1	1	2500
2	Shoeburyness	22·3	-4	SSE	3	bc	67	65	56	7	5	-	-	4·6	4·6	3500
	Felixstowe	22·0	0	S'W	3	bc	67	65	56	7	8	3	-	4·6	7·8	2500
	Gorleston	21·5	+2	S'W	4	c	61	85	56	7	8	-	-	9	9	2000
	Mildenhall	21·3	-2	W'S	2	c	71	45	49	8	1	3	-	4·6	4·6	4000
	Cranwell	20·3	-6	WSW	3	c	68	55	51	7	1	3	-	2·3	9+	2500
3	Birmingham	22·2	-4	SW	3	bc	69	45	47	8	1	3	-	2·3	4·6	4000
	Upper Heyford	20·7	-6	SSW	3	c	70	45	49	7	2	3	-	7·8	7·8	3000
4	Ross-on-Wye	20·2	-6	SSW	4	bc	69	55	53	7	1	5	9	2·3	4·6	3500
5	Hartland Point	20·5	-6	W'S	2	bc	63	85	58	7	1	-	-	4·6	4·6	3000
	Bristol	21·2	-6	S'W	3	bc	69	55	53	7	2	6	-	7·8	7·8	4000
	Portland Bill	22·5	0	SE	2	bc	64	85	59	8	2	-	-	4·6	4·6	4000
	Plymouth	21·9	0	SSE	2	bc	67	65	54	8	1	-	-	2·3	2·3	2500
	The Lizard	21·1	0	E'S	3	c	65	85	61	7	8	2	-	7·8	10	2000
	Scilly (St. Mary's)	21·0	-2	SE	2	bc	66	75	58	7	2	-	-	2·3	2·3	1800
	Guernsey															
6	Pembroke	20·5	-6	S'W	2	bc	61	85	58	7	2	3	-	2·3	4·6	3000
7	Holyhead (Valley)	19·7	-10	SSW	3	c	61	75	54	8	-	3	-	0	10	-
	Chester (Sealand)	20·0	-6	SSE	2	c	67	65	54	7	5	7	-	4·6	9+	4000
8	Manchester	20·2	-10	SSW	3	c	67	55	49	8	2	7	-	1	9+	3000
10	Spurn Head	20·4	0	WNW	2	c	65	55	50	7	5	7	-	4·6	10	4000
	Catterick	19·4	-8	SW	3	c	66	45	45	9	1	7	-	Tr	10	4000
	Tynemouth	19·6	-2	WSW	3	c	63	55	48	7	8	-	-	7·8	7·8	2800
11	St. Abbs Head	17·8	-6	E	2	c	59	75	51	8	7	4	-	4·6	7·8	3700
	Leuchars	17·0	-12	SW	2	c	63	65	53	9	2	3	8	2·3	7·8	3500
12	Renfrew (Abbots I.)	18·4	-6	WSW	3	c	58	55	43	9	1	7	-	2·3	10	2500
	Eskdalemuir	18·5	+4	SW'S	3	c	59	65	46	8	7	7	-	4·6	10	2500
	Point of Ayre	19·4	-8	S	4	c	59	75	51	8	8	7	7	Tr	10	6000
13A	Tiree	16·7	-6	SW'S	3	c/pr	56	85	51	8	8	-	-	9+	9+	2500
13B	Stornoway	15·3	-16	SSW	4	c/pr	57	85	52	8	5	7	-	4·6	10	2500
15	Dalwhinnie	17·0	-6	SSW	3	c	56	55	42	8	8	2	-	2·3	10	2500
	Aberdeen	17·1	-12	S'E	3	c	60	55	46	8	8	7	-	1	10	2300
	Wick	16·0	-2	ESE	1	c/pr	56	85	54	9	8	7	-	7·8	9	1500
16	Sumburgh	14·8	+2	WSW	4	bc	55	85	51	8	2	-	6	2·3	4·6	1500
17	Blacksod Point	17·6	-6	S'W	3	rr	55	85	51	7	6	2	-	4·6	10	1600
18	Malin Head	16·5	-14	SW	2	c	58	75	50	8	5	2	-	7·8	10	2500
	Aldergrove	17·9	-14	SSE	2	ro	57	85	52	8	5	2	-	9	10	2500
19	Birr Castle	17·8	-14	W	2	c	63	75	55	8	5	1	-	7·8	10	2500
20	Valentia Obsy.	19·3	-6	SW'S	4	c	60	75	52	8	1	7	-	4·6	9+	2500
	Roches Point	19·0	-12	S	3	bc	63	75	55	9	1	3	-	1	4·6	4000

OBSERVATIONS at 18h. G.M.T. 28th 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)	20·5	-6	SSW	2	b	66	55	49	8	5	4	-	Tr	1	4000	1	*
Croydon	21·0	-4	SW'S	2	b	66	55	49	8	-	-	-	0	0	-	1	*
S. Farnborough	20·6	-4	SSW	3	b	67	45	44	8	-	-	-	0	0	-	0	*
Boscombe Down	20·7	-4	SW	4	b	65	45	43	9	-	3	-	0	1	-	0	*
Thorney Island	21·1	-12	SSW	3	b	64	75	54	9	-	-	-	0	0	-	0	*
Lympne	21·6	-6	S	1	b	65	55	49	8	-	-	-	0	0	-	0	§1
Manston	21·2	-8	SSW	1	b	65	35	38	9	-	7	-	0	1	-	0	*
Shoeburyness	20·9	-6	S	3	bc	66	65	54	8	5	3	-	4·6	7·8	4000	0	*
Felixstowe	20·7	-6	SSW	3	c	67	55	53	7	2	7	-	Tr	7·8	2500	0	2
Gorleston	19·8	-4	SE'S	3	c	65	75	60	7	5	3	-	4·6	9+	1800	0	3
Mildenhall	19·2	-10	SW'S	1	c	70	85	59	8	5	-	-	9+	9+	5700	0	*
Cranwell	17·8	-14	S'E	2	c	65	75	57	7	5	7	-	4·6	10	4000	0	*
Birmingham	13·8	+24	N	2	c	62	65	51	6	5	3	-	1	7·8	2500	1	*
Upper Heyford	19·3	-6	SE'S	4	bc	69	45	48	8	8	5	-	2·3	7·8	4000	0	*
Ross-on-Wye	18·7	-6	S'W	3	bc	67	55	50	8	1	-	-	Tr	4·6	4000	0	*
Hartland Point	19·3	-6	W	3	bc	64	85	61	7	2	4	-	2·3	4·6	3000	0	2
Bristol	20·4	-8	SSW	4	bc	67	45	43	8	-	5	-	0	4·6	-	0	*
Portland Bill	21·0	0	SE	2	bc	61	85	58	8	2	-	-	4·6	4·6	4000	1	3
Plymouth	21·0	-4	SW	2	bc	62	85	58	7	2	3	1	2·3	2·3	2000	0	2
The Lizard	20·0	-2	-	0	bc	64	85	59	7	8	6	-	4·6	4·6	1500	0	3
Scilly (St. Mary's)	20·4	-2	W'N	2	c	63	85	58	7	8	-	-	9+	9+	1000	0	2
Guernsey																	
Pembroke	19·3	-10	SW'W	3	c	59	92	56	8	5	-	-	9+	9+	3000	1	2
Holyhead (Valley)	17·1	-18	SSW	4	roro	58	92	55	8	5	7	-	2·3	10	4000	1	3
Chester (Sealand)	16·8	-12	WSW	3	iro	64	75	54	6	5	2	-	4·6	10	1800	1	*
Manchester	17·3	-14	-	0	c	62	85	57	6	5	7	-	4·6	10	2500	1	*
Spurn Head	18·6	-12	ESE	3	c	60	85	54	6	5	7	-	4·6	10	4000	0	2
Catterick	18·2	-12	N	2	rr	57	92	55	6	5	7	-	7·8	10	3000	1	*
Tynemouth	18·3	-10	W	3	roro	59	85	52	6	-	2	-	10	10	1500	1	2
St. Abbs Head	15·5	-6	SW	3	c/pr	56	75	49	8	6	-	-	10	10	2500	1	2
Leuchars	15·3	-14	WSW	2	roro	58	85	54	6	5	2	-	10	10	4000	1	*
Renfrew (Abbots I.)	15·3	-12	SW'S	2	roro	54	97	53	6	6	2	-	4·6	10	1000	1	*
Eskdalemuir	16·2	-18	-	0	roro	53	85	48	8	-	2	-	10	10	700	1	*
Point of Ayre	16·0	-18	SSW	2	rr	57	97	54	7	6	2	-	7·8	10	1500	1	2
Tiree	13·3	-20	S'W	3	iro	54	85	53	7	5	7	-	4·6	10	1500	0	3
Stornoway	12·7	-12	SSW	4	c/r	54	92	52	8	5	7	-	4·6	10	2500	1	3
Dalwhinnie	15·0	-10	SSW	2	iro	50	85	47	8	5	2	-	7·8	10	2500	1	*
Aberdeen	15·0	-14	S'W	3	c	55	85	50	7	5	7	-	4·6	10	2200	1	2
Wick	15·7	-2	-	0	pr	52	92	52	9	8	2	-	7·8	10	2000	1	*
Sumburgh	14·3	-6	SW'S	3	bc	53	92	51	8	7	7	6	4·6	7·8	2500	0	3
Blacksod Point	14·3	-20	WSW	3	dodo	56	92	54	7	6	2	-	7·8	10	1500	1	3
Malin Head	14·2	-14	SW	2	r	55	75	48	8	4	2	-	2·3	10	2500	0	2
Aldergrove	15·4	-18	S'W	1	c/r	55	85	50	8	5	7	-	4·6	10	1500	1	*
Birr Castle	16·5	-12	W	2	c	58	85	53	8	5	1	-	7·8	9+	2500	1	*
Valentia Obsy.	16·5	-18	S	4	ir	58	92	56	6	6	-	-	10	10	800	1	4
Roches Point	17·9	-12	SSW	4	c	60	85	55	8	8	7	-	4·6	9	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 28th (39)	Weather 13h.—18h. 28th (40)	Weather 18h. 28th – 1h. 29th (41)	Weather 1h.–7h. 29th (42)
London (Kew)	c,bmoic	bcby	bcccw	cw
Croydon	bmobcc	cbcyby	cbc	bcc
S. Farnborough	bcwmocy	cby	byc	cbcwc
Boscombe Down	bbc	by	bybcc	cbccmo
Thorney Island	bfgwb	b	bbccw	cbcrnocm
Lympne	bmob	by	byccw	
Manston	bmobcb	b	bycmo	bmoc
Shoeburyness	bccmow	bc	bcc	c
Felixstowe	bmobcmoc	ccy	cbc	cbccmo
Gorleston	bcc	c	czo	czo
Mildenhall	bcc	cbcycy	cmoiro	ciroc
Cranwell	cmocy	cyc	ciromo	cmobcc
Birmingham	bc	c	c	c
Upper Heyford	bmobzc	cybcy	bccyc	ccmo
Ross-on-Wye	bfzbc	bcy	cc	ccp
Hartland Point	bc	bc	bcc	cpiroo
Bristol	bzobc	bcbbcy	bcycmo	bcciromo
Portland Bill	bcbc	bcbc	c	c
Plymouth	bmob	bbc	c	cidoiro
The Lizard	cbccz	czobc	cbccw	cbcc
Scilly (St. Mary's)	bcbbc	bcc	bccbcw	bcc
Guernsey				
Pembroke	cbc	c	ciro	crrdodom
Holyhead (Valley)	c	croro	c	cdmmo
Chester (Sealand)	c	ccrrmo	irocmob	cpro
Manchester	cmczo	clfmo	iropr	cmoc
Spurn Head	c	cmo	ciroc	c
Catterick	c	cirorr	croromocmo	cmoc
Tynemouth	c	cororo	oiroc	cm
St. Abbs Head	cmo	oprmo	cprcrr	cpr
Leuchars	c	ciroromo	rormocmo	cbciromo
Renfrew (Abbots I.)	bcc	crcroro	cmo	cmororoc
Eskdalemuir	bcc	croro	crrm	crr
Point of Ayre	c	crororr	rrcbc	crrdd
Tiree	cpr	coiro		cprbc
Stornoway	cpr	croro	crr	crr
Dalwhinnie	co	oiro		oproc
Aberdeen	bcc	cpro	vcpro	cprzo
Wick	bccprcjp	cjpcpr	prroroc	crrnoccilo
Sumburgh	bbcbbc	bc	c	crrmoc
Blacksod Point	r	d	bc	bc
Malin Head	c	r	r	pro
Aldergrove	ccir	croromotrrc	c	c,rorododoe
Birr Castle	c	r		d
Valentia Obsy.	bc	r	r	r
Roches Point	bc	c	r	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 29th July

Districts	Forecast
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	Light or moderate Southwest winds veering West-north-west. Cloudy with occasional rain at first and with local coast and hill fog in the west; fair later apart from some scattered showers; rather cool.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland	Moderate West-north-west winds; local showers and bright intervals; rather cool.
15 N.E. Scotland	Light Southeast to variable winds, finally Westerly;
16 Orkneys and Shetlands	rain at first; showers and bright intervals later; rather cool.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 12–14

GENERAL INFERENCE

A trough of low pressure extending from North Scotland to St. Georges Channel is moving eastwards, and will have crossed the country before dawn. Ahead of the trough weather will be cloudy with occasional rain, and behind it weather will be fair apart from scattered showers. Temperatures will be a little below average

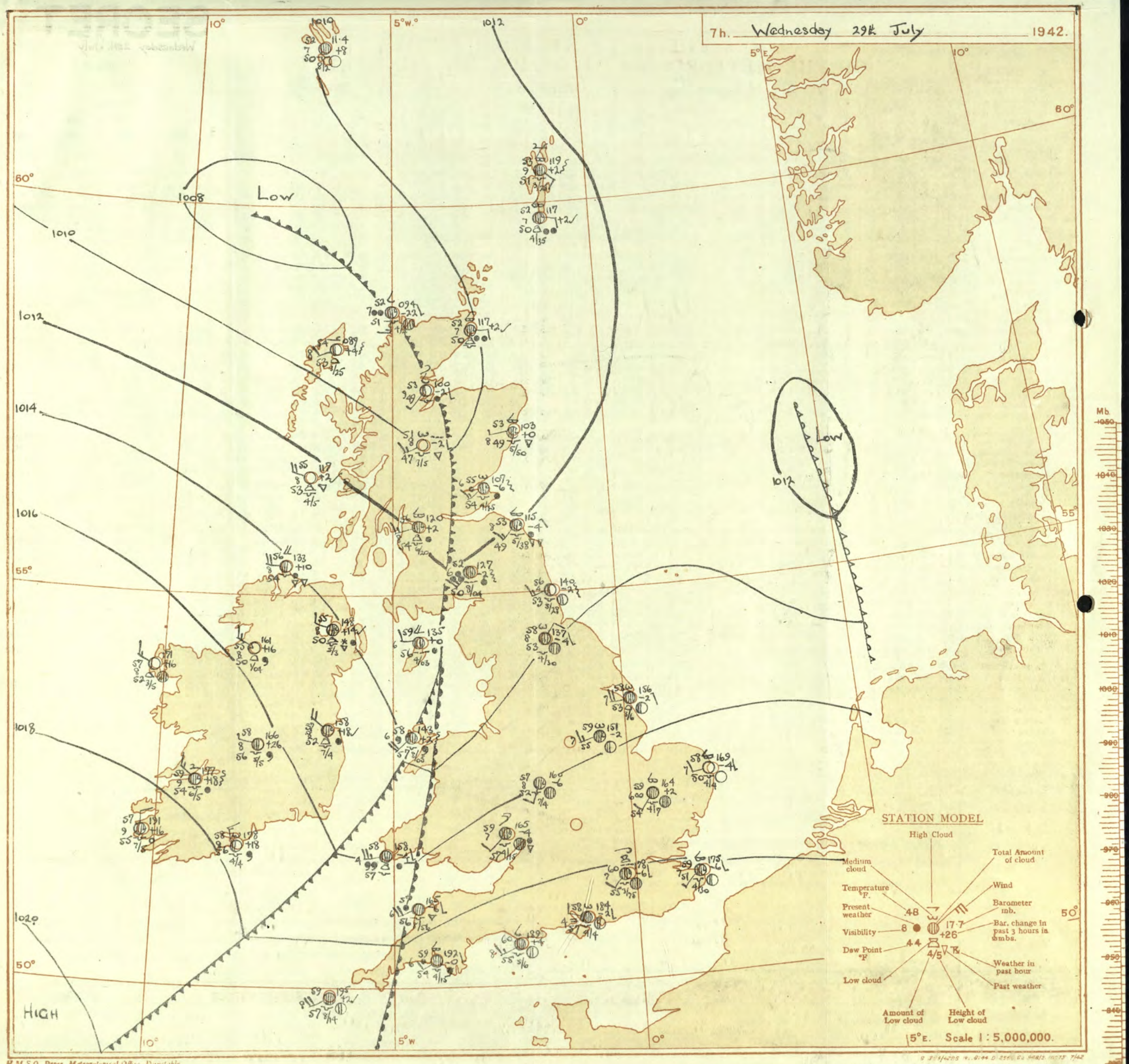
FURTHER OUTLOOK

Fair apart from scattered showers.

Forecasts issued at

N. K. JOHNSON, D.Sc. A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Wednesday 29th July 1942.



H.M.S.O. Press, Meteorological Office, 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).

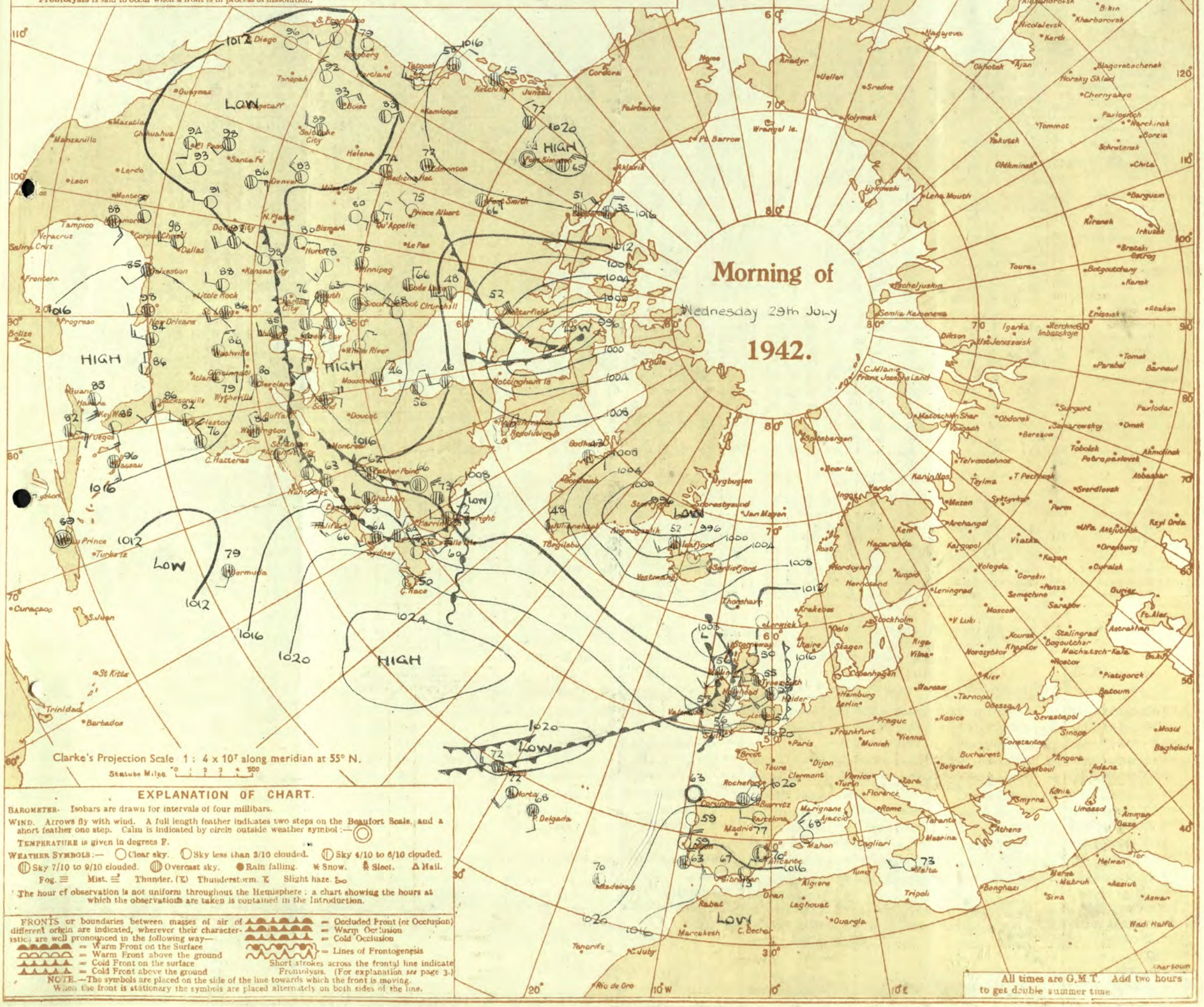
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Wednesday 29th July 1942

No. 29469

OBSERVATIONS at 1 hr. G.M.T. 29th July — OBSERVATIONS at 7 hr. G.M.T. 29th July — PAST 24 HOURS.

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F (6)	Humid. % (7)	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)	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)	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 28th Hrs. (38)
1	London (Kew)	18	*	*	*	*	*	57	*	*	*	*	*	*	*	*	*	17.6	-4	W'S	2	c	59	85	53	7	5	3	-	7.8	9+	4000	1	*	70	56	47	-	-	10.7
	Croydon	290	19.5	+2	SSW	1	bc	54	92	51	8	-	4	-	0	4.6	-	17.8	-6	SW	2	c	60	85	55	7	5	9	3	2-3	9+	7500	1	*	71	54	50	-	-	10.0
	S. Farnborough	226	19.2	-2	SW'W	1	c	56	85	51	8	-	9	-	0	7.8	-	17.8	0	WSW	3	c	59	85	54	7	5	7	-	Tr	9+	1000	0	*	72	55	47	-	Tr	10.5
	Boscombe Down	417	19.5	+6	S'E	1	c	54	92	52	7	-	5	-	0	9+	-	18.1	-4	SW'S	3	z0	58	92	55	6	-	7	-	0	9	-	0	*	70	52	46	-	Tr	12.3
	Thorney Island	10	19.6	-4	N'W	1	c	54	97	53	7	-	3	-	0	9+	-	18.4	-2	W'N	2	m	58	97	57	4	5	3	-	4-6	10	1500	0	*	67	50	47	-	-	*
	Lympne	283	20.4	-6	-	0	bc	54	97	53	7	5	3	-	Tr	7.8	1200	19.3	0	WNW	2	c	58	85	53	7	-	7	-	0	9	-	0	§ 1	66	49		-	-	14.2
	Manston	154	19.3	-6	S'E	1	z0	55	85	50	6	-	3	-	0	2-3	-	17.5	-6	SW	1	c	59	75	51	7	5	7	-	4-6	9+	3000	0	*	69	52	48	-	-	13.1
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	17.9	-4	SW	2	c	61	75	53	7	5	3	1	7-8	9+	6200	0	*	72	56	45	-	-	10.5
	Felixstowe	12	19.1	-6	SW	3	bc	60	75	51	7	-	7	-	0	4.6	-	17.4	-4	SSW	2	z0	59	85	52	6	-	7	-	0	9+	-	0	2	68	57	55	-	-	8.7
	Gorleston	5	18.4	-4	SW	2	z0	59	65	47	6	5	-	-	7.8	7.8	1500	16.9	-4	W'S	2	bc	58	75	51	7	5	7	-	4-6	9+	1800	0	2	66	56	54	-	-	8.0
	Mildenhall	15	17.8	-6	SW'S	3	ir0	59	65	57	7	5	7	-	7.8	9+	4000	16.4	+2	SW'W	2	z0	59	85	53	6	5	7	-	4.6	10	5700	0	*	72	57	52	Tr	Tr	8.8
	Cranwell	203	16.2	-6	WSW	2	z0	59	85	54	6	5	2	-	2-3	10	3000	15.1	-2	WSW	3	c	59	75	53	7	-	3	-	0	9	-	0	*		55	52	-	Tr	5.9
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.0	-6	SSW	2	c	57	85	52	8	5	-	-	9+	9+	1500	1	*	64	56	52	1	-	4.[illegible]
	Upper Heyford	408	18.3	-6	SSW	2	c	57	75	49	8	-	7	-	0	7.8	-	17.0	-2	SW	3	id0	58	92	55	6	5	7	-	Tr	10	1500	0	*	71	56	55	-	Tr	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.5	-4	SW	2	c/pr	59	92	57	7	5	-	2	4-6	9+	1500	1	*	72	58	55	-	0.2	9.5
5	Hartland Point	299	18.6	-4	WSW	3	c	59	97	57	7	5	6	-	4-6	9	1500	16.5	-6	WSW	4	ir0	57	97	56	6	5	-	-	10	10	600	1	4	66	57	56	-	0.4	12.0
	Bristol	209	19.2	-6	-	0	z0	57	85	53	6	5	3	-	Tr	7.8	4000	18.4	0	WSW	3	%f	59	85	53	7	5	-	-	10	10	1500	0	*	72	56	54	-	Tr	12.0
	Portland Bill	32	18.6	-12	SW	3	c	59	85	55	7	5	-	-	10	10	4000	18.9	+4	WSW	3	c	60	85	56	8	5	4	-	7-8	10	4000	1	3	65	58	*	-	-	*
	Plymouth	82	20.2	-2	SW	1	z0	59	97	58	6	5	-	-	10	10	1000	19.2	0	W'S	2	ir0	59	85	55	6	5	7	-	4-6	10	1500	1	2	68	56	51	-	Tr	12.3
	The Lizard	240	20.2	+4	W	3	c	56	97	56	7	8	2	-	7.8	9+	1500	19.3	+2	W	2	c	58	92	56	8	8	2	-	9	10	1500	0	4	67	55	*	-	-	8.5
	Scilly (St. Mary's)	163	20.4	-4	WSW	3	bc	56	92	53	8	8	4	-	4-6	4-6	1200	19.5	+2	WSW	4	c	59	92	56	8	5	-	-	10	10	1400	0	4	69	54	*	-	-	10.9
	Guernsey	175																																						
6	Pembroke	142	18.1	-8	SW	4	ir0	58	92	56	8	8	-	-	10	10	2500	15.8	-8	W	5	dod0	58	97	58	4	8	-	-	10	10	1500	1	4	63	52	*	-	4	7.6
7	Holyhead (Valley)	32	15.9	-8	SSW	5	c	57	92	55	7	5	3	-	4-6	9+	3500	14.3	+2	SW	4	id0	58	97	57	6	5	-	-	10	10	500	1	3	63	56	52	0.3	0.5	*
	Chester (Sealand)	16	16.2	-14	SSW	1	c	57	85	51	7	5	4	-	7-8	10	3500	13.9	-12	ESE	2	c	58	85	54	7	5	-	-	9	9	5000	1	*	69	57	47	0.3	0.1	1.0
8	Manchester	235	16.3	-10	S	3	c	54	92	52	8	5	3	-	4-6	9	4000	14.2	-10	S	4	c	57	85	53	7	5	7	-	4-6	10	2500	0	*	69	54	48	0.3	1	*
10	Spurn Head	29	16.1	-8	SW'W	3	ir0	59	92	57	6	5	2	-	4-6	10	2500	15.6	-2	W'S	4	c	58	85	53	7	1	3	-	2-3	7-8	4000	0	3	67	57	*	-	2	4.6
	Catterick	175	14.7	-16	WSW	3	z0	56	92	53	6	5	7	-	4-6	9	2500	13.7	-4	NE	2	c	58	85	52	8	5	3	-	4-6	7-8	3000	1	*	65	54	51	1	3	4.0
	Tynemouth	108	14.7	-16	W	3	c	55	97	53	6	5	3	-	4-6	7-8	1500	14.0	-2	WSW	3	m	56	92	53	4	5	-	*	7-8	7-8	2800	1	3	64	53	49	0.6	1	*
11	St. Abbs Head	280	13.5	-14	SW	2	c	51	97	51	7	5	-	-	10	10	2500	11.5	-4	SW	3	S/pr	53	85	49	8	5	7	-	7-8	9+	3800	1	2	59	50	*	Tr	4	*
	Leuchars	36	12.7	-10	WSW	2	z0	51	97	51	6	-	7	-	0	9+	-	10.7	-6	SW	3	ir0	55	97	54	6	5	3	-	4-6	7-8	1500	1	*	64	51	47	Tr	5	6.4
12	Renfrew (Abbots I.)	19	13.1	-6	-	0	z0	53	97	51	6	5	2	-	9	10	1800	12.0	+2	WSW	3	S/r	56	92	54	8	8	7	-	9	9	2000	1	*	62	49	45	1	7	1.4
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12.7	-2	SW'S	3	rr	52	92	50	6	6	-	-	10	10	400	1	*	60	49	47	1	7	1.9
	Point of Ayre	30	14.6	-4	W'S	8	bc	53	97	52	8	4	3	-	2-3	2-3	3000	13.5	0	W'N	2	dd	57	97	56	6	6	2	-	4-6	10	300	1	2	59	51	*	2	4	0.2
13A	Tiree	22																11.7	+2	WNW	4	bc	55	92	53	8	8	-	-	4-6	4-6	2500	1	4	59	51	*	Tr	4	1.4
13B	Stornoway	80	08.6	-12	SSE	5	rr	51	97	50	6	5	2	-	9	10	1000	08.7	+4	WSW	2	bc	54	97	53	8	2	4	8	2-3	4-6	2500	1	2	59	51	*	1	12	0.8
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11.0	-2	SW	3	bc	51	85	47	8	5	3	-	2-3	4-6	2500	1	*	59	47	44	0.1	2	3.4
	Aberdeen †	79	12.0	-18	SSE	1	c	50	85	45	8	5	7	-	2-3	10	5000	15.6	-2	WSW	1	c	52	92	50	6	7	-	-	7-8	7-8	2500	1	1	60	49	43	Tr	0.5	4.8
	Wick	114	11.6	-14	S'W	2	c/r	51	97	49	7	5	2	-	7-8	10	2500	10.7	0	SE	1	ir0	50	97	50	8	5	-	-	10	10	3500	1	*	61	48	47	5	3	*
16	Sumburgh	19	12.4	-10	SSW	1	c	51	97	50	8	5	7	-	2-3	10	5000	11.7	+2	E	2	c/r	52	92	50	7	8	7	-	4-6	9+	3500	1		57	49	47	-	4	10.9
17	Blacksod Point	18	14.4	+12	WNW	2	bc	56	97	55	8	8	3	-	4-6	7-8	1500	17.1	+16	WNW	3	bc	57	85	52	8	1	-	-	2-3	2-3	2500	1	2	67	53	*	4	0.1	*
18	Malin Head	84	12.0	-8	SW'S	3	c	56	85	51	8	5	-	-	9	9	1500	13.3	+10	W	4	c/pr	56	92	54	8	5	2	-	4-6	7-8	1500	1	2	58	53		Tr	1	0.0
	Aldergrove	268	14.2	-6	SSE	1	c	53	85	49	7	5	7	-	7-8	10	2500	14.8	+14	WNW	2	c	55	85	51	8	8	-	-	7-8	7-8	900	1	*	59	49	49	2	1	0.0
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16.6	+26	WNW	1	c	58	92	56	8	5	-	-	7-8	7-8	2500	1	*	64	56	53	2	0.3	0.3
20	Valentia Obsy.	30	16.6	+6	WNW	2	dod0	57	97	56	6	5	-	-	10	10	450	19.1	+16	NNW	2	c	57	92	55	9	5	-	-	9+	9+	2500	1	2	63	56	55	4	2	2.7
	Roches Point	22	16.1	-12	SSW	4	c/d	58	97	57	8	5	-	-	9	9+	800	17.5	+18	NW	3	bc	58	92	56	8	5	3	-	4-6	4-6	1500	1	4	63	57	*	-	0.4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 28th July $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 29th July $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
109	83	02854	24425	87	03975	18127	52	51645	14358	82	51854	15158
115	54	02844	20326	52	81844	20387	52	61766	12217	54	62744	16325
203	8-	02847	20427	82	02944	20488	6-	62838	16468			
206	83	02964	24326	51	02965	22228	52	22864	00068	54	01963	20164
210	83	02966	25327	87	02963	10268	52	62843	18268	53	02964	24165
220	52	03946	22428	52	03945	21488				80	01846	27486
230	87	02954	18227	82	62745	00068	62	61526	16168	86	02845	18265
245	77	02963	18318	52	02968	22228	5-	02857	23267	8-	01964	23265
260	17	02863	21216	52	63755	21268	57	02766	21227	57	02754	21265
278	57	02856	14228	52	62746	13268	53	02742	18227	5-	21847	26357
279	77	02862	22328	57	62654	16255	23	02743	25326	52	02745	22327
285										23	02745	28326
288	11	02961	22227	52	62764	16168	53	01774	18364	03	02890	18225
575	62	63852	18268	57	61844	20268	5-	22848	20268	10	00851	28351
301	07	02890	20128	52	64564	00068	5-	02766	24366	02	64428	18268
321	57	05664	00028	42	62664	17268	53	02773	20325	53	02763	16226
299	50	02767	22217	5-	03668	20128	80	05644	14124	54	05654	22114
292	17	02851	21227	52	63654	00068	50	05662	26212	53	02854	00025
310	--	01644	26314							--	51628	20328
614	13	05663	24117	52	05555	18128	52	05545	00028	50	05665	24325

III	13h. G.M.T. 28th July $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 29th July $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
333	57	02864	14227	52	62744	20468	53	02864	21367	5-	02757	20357
334										--	54447	28358
340	23	02863	16227	27	02764	22328	07	02790	20326	53	01973	17324
136	13	02762	24215	09	02790	16227	07	02790	17367	53	05674	21325
336	13	02752	16316	53	01754	20415				62	64526	20468
350	13	02762	18216	56	00233	05214				57	61666	19227
368	10	00852	16112	23	01752	22214	5-	05667	21317	02	52448	22468
379	23	01854	20315	83	01963	20414	57	02865	24227	52	55546	20228
390	83	05664	24216				03	05690	28116	57	05673	22227
382	86	02765	18215	07	01890	20314	57	02874	00027	17	02772	00028
438				40	00861	16201	5-	02767	20217	57	02754	22315
430	03	00890	14201				57	02774	02126	5-	05448	00028
409	10	01854	16414	26	81866	24317	5-	05627	20287	5-	52628	20468

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 ....
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	c, bm0 wc	bcby	bccew
Croydon	bm0 bcc	cbcyby	cbc bcc
Greenwich	bbcy	bkcby	cbcd0
Camden Square	o	c	*
Kensington	bbc	bc	*
Hampstead	bc	bcp	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h.
Max. Time 0·1 7–12h 28th
Min. Time 0·1 14–24h 28th

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	70	56	47	-	-	10.7	*	*
Croydon	71	54	50	-	-	10.0	*	*
Greenwich	73	52	38	-	Tr	10.7	52	80
Westminster	70	56	52	Tr		*	52	*
Regents Park	72	56	52	-	Tr	*	69	77
Camden Square	71	57	49	-	-	*	*	74
Kensington	72	56	45	-	Tr	*	52	83
Hampstead	69	54	49	-	Tr	*	*	85

BRITISH SECTION

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

SECRET

Thursday 30th July, 1942

No. 29470.

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)	°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)	17·9	+4	SW'W	2	f/r	63	85	58	7	5	2	-	7-8	10	1500
	Croydon ...	17·9	+2	WSW	1	d₀d₀	63	92	60	7	5	2	-	4-6	10	1100
	S. Farnborough	17·7	+2	W'S	3	c	64	75	52	7	5	2	-	9+	10	1200
	Boscombe Down	17·9	-2	W'S	4	c	65	85	61	7	5	-	-	10	10	1800
	Thorney Island	18·3	0	SW	4	c	65	76	58	8	5	7	-	9	10	1500
	Lympne ...	18·2	-8	WSW	2	c	65	75	57	6	5	2	-	9	10	800
	Manston ...	17·2	+2	WSW	3	z₀	66	65	53	6	5	2	-	7-8	10	2500
2	Shoeburyness ...	17·4	-2	W'S	3	id₀	66	65	57	6	5	2	-	4-6	10	3600
	Felixstowe ...	16·8	0	WSW	4	z₀	66	75	56	6	5	7	-	9	10	3000
	Gorleston ...	16·4	0	W'N	1	c	65	75	57	7	5	-	-	10	10	2200
	Mildenhall ...	15·9	-2	SW'W	5	f/d	68	78	58	8	7	-	-	7-8	7-8	2500
	Cranwell ...	14·4	0	W	4	c	69	65	57	7	2	-	-	9	9	3000
3	Birmingham ...	16·0	+6	NNW	4	c	70	55	53	8	8	-	-	7-8	7-8	4000
	Upper Heyford	15·9	-6	SW	4	c	71	65	59	8	2	-	-	7-8	7-8	3000
4	Ross-on-Wye	16·5	+8	WNW	4	bc	70	55	52	9	1	-	-	2-3	2-3	4000
5	Hartland Point	19·5	+22	NW	2	bc	61	92	58	8	2	4	-	2-3	4-6	1500
	Bristol ...	17·9	+2	W'S	4	bc	70	75	60	8	1	-	-	2-3	2-3	2500
	Portland Bill ...	19·0	+6	SW	3	c	61	85	58	8	5	-	-	10	10	4000
	Plymouth ...	19·6	+2	WSW	3	f/d	62	97	61	6	5	-	-	9+	9+	1000
	The Lizard ...	19·9	+6	W	3	d₀f	59	97	59	3	5	-	-	10	10	800
	Scilly (St. Mary's)	20·3	+4	WNW	3	f	63	92	61	2	-	-	-	10	10	1150
	Guernsey ...															
6	Pembroke ...	19·6	+16	NW'N	3	bc	64	75	57	8	2	-	-	2-3	2-3	2500
7	Holyhead (Valley)	18·7	+26	NW'N	4	bc	64	65	51	9	2	4	-	1	2-3	2500
	Chester (Sealand)	17·5	+28	NW	5	c	62	75	55	8	8	6	-	7-8	9+	1800
8	Manchester ...	16·4	+22	W'N	4	c	63	75	57	8	2	6	-	7-8	7-8	2500
10	Spurn Head ...	14·9	0	NNW	2	c	63	85	58	7	5	7	-	4-6	9	2500
	Catterick ...	15·0	+12	WNW	3	bc	66	55	50	8	1	-	-	4-6	4-6	3000
	Tynemouth ...	14·6	+4	W	3	c	68	65	54	7	8	-	-	7-8	7-8	2800
11	St. Abbs Head	12·8	+12	WNW	3	bc	61	65	50	8	1	4	-	4-6	4-6	6500
	Leuchars ...	12·9	+14	W	3	bc	66	75	59	9	8	4	-	4-6	4-6	3000
12	Renfrew (Abbots I.)	14·9	+16	NW'W	4	c	65	55	51	9	8	-	-	7-8	7-8	3000
	Eskdalemuir ...	14·7	+4	SW'W	2	bc	60	65	48	8	7	-	-	4-6	4-6	2500
	Point of Ayre ...	17·6	+24	NW	3	b	64	75	53	8	1	-	-	1	1	3000
13A	Tiree	16·0	+24	NW'W	3	bc	60	75	53	8	1	4	-	2-3	2-3	3500
13B	Stornoway ...	13·0	+24	WNW	4	c	58	85	53	8	5	7	-	4-6	9	2500
15	Dalwhinnie ...	14·0	+16	WSW	3	c	62	65	52	8	8	-	-	7-8	7-8	2500
	Aberdeen ...	13·2	+22	ENE	3	bc/pr	60	75	52	8	8	-	3	7-8	7-8	2300
	Wick ...	13·5	+18	E'S	2	c	56	85	51	8	8	-	-	4-6	7-8	2500
16	Sumburgh ...	14·3	+18	E'N	2	b	57	85	52	9	1	-	1	1	1	2500
17	Blacksod Point	20·9	+18	NW'W	3	bc	61	65	49	8	2	-	4	4-6	4-6	4000
18	Malin Head ...	17·4	+18	WNW	5	c/p	58	85	53	8	8	2	-	7-8	9+	1500
	Aldergrove ...	18·0	+14	NW'W	3	c	64	65	48	8	8	-	-	7-8	7-8	2500
19	Birr Castle ...	19·7	+14	NW	2	bc	66	55	51	8	2	-	-	4-6	4-6	1500
20	Valentia Obsy.	21·7	+14	NNW	4	b	62	75	54	9	1	-	-	1	1	2500
	Roches Point	20·2	+14	N'W	4	bc	67	65	55	9	1	-	1	2-3	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)	°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 the Ground. 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	17·3	-2	NNW	3	c	73	55	55	8	8	4	-	4-6	7-8	2500	1	*
	Croydon ...	17·3	-2	WSW	3	bc	71	65	57	8	2	6	-	4-6	4-6	3000	1	*
	S. Farnborough	17·4	+2	W'N	2	bc	74	45	49	8	1	-	3	2-3	2-3	2500	0	*
	Boscombe Down	18·4	+8	WNW	4	bc	70	65	57	8	1	-	-	2-3	2-3	2500	0	*
	Thorney Island	18·2	-2	SW	3	b	67	85	61	8	2	-	-	1	1	2000	0	*
	Lympne ...	18·3	-2	WNW	2	bc	66	85	60	7	1	-	-	7-8	7-8	2500	0	2
	Manston ...	17·3	-2	WSW	2	z₀	68	65	58	6	1	-	-	Tr	Tr	2000	0	*
2	Shoeburyness ...	17·3	0	WSW	3	bc	70	65	58	7	5	-	-	2-3	2-3	3500	0	*
	Felixstowe ...	16·6	+2	W'S	3	z₀	71	65	58	6	8	-	-	4-6	4-6	4000	0	2
	Gorleston ...	17·0	+10	NNE	2	bc	65	85	60	7	2	-	-	2-3	2-3	3500	1	2
	Mildenhall ...	16·6	+10	NW'W	3	b	70	55	54	8	2	-	1	1	1	4000	0	*
	Cranwell ...	17·1	+14	NW'W	5	b	67	55	51	7	2	-	-	Tr	Tr	4000	0	*
3	Birmingham ...	19·0	+10	NNW	4	b	65	55	50	8	1	-	-	Tr	Tr	4000	1	*
	Upper Heyford	18·0	+16	NNW	4	b	68	55	51	8	4	-	3	Tr	Tr	3000	0	*
4	Ross-on-Wye	18·6	+10	NW'N	3	bc	69	55	52	9	1	-	1	2-3	2-3	4000	0	*
5	Hartland Point	20·5	+4	WNW	3	bc	60	92	57	8	2	4	-	1	2-3	2000	1	3
	Bristol ...	19·5	+12	NW	3	b	69	55	52	9	4	-	1	Tr	Tr	4000	0	*
	Portland Bill ...	19·5	+4	SW	3	bc	61	85	58	8	5	-	-	4-6	4-6	4000	1	3
	Plymouth ...	20·3	+4	NNW	3	bc	67	65	56	8	1	4	-	2-3	2-3	3000	0	2
	The Lizard ...	20·9	0	NW	3	bc	64	85	59	8	8	-	-	2-3	2-3	2500	0	3
	Scilly (St. Mary's)	22·3	+12	NW'N	2	bc	63	85	57	8	5	4	-	4-6	4-6	1200	0	3
	Guernsey ...																	
6	Pembroke ...	21·2	+6	WNW	3	bc	60	85	54	8	1	6	-	1	2-3	3000	1	2
7	Holyhead (Valley)	20·3	+10	SW'S	3	b	63	75	54	9	4	4	1	Tr	Tr	4500	0	1
	Chester (Sealand)	20·0	+10	NW	3	bc	62	69	50	8	1	4	1	2-3	2-3	3000	0	*
8	Manchester ...	19·2	+14	W'N	5	bc	62	65	50	8	2	-	-	4-6	4-6	2500	0	*
10	Spurn Head ...	16·7	+12	SSE	2	z₀	60	85	56	6	2	-	-	4-6	4-6	4000	0	2
	Catterick ...	17·8	+20	WNW	4	bc	66	55	50	8	4	-	-	2-3	2-3	4000	0	*
	Tynemouth ...	16·7	+10	W	3	bc	69	55	53	8	2	3	-	4-6	4-6	2800	0	2
11	St. Abbs Head	15·0	+8	WSW	3	bc	65	65	54	8	5	4	-	4-6	4-6	3500	0	3
	Leuchars ...	16·0	+26	ENE	2	c	59	85	56	8	8	-	-	7-8	7-8	2800	0	*
12	Renfrew (Abbots I.)	18·0	+10	WNW	3	c	61	65	51	9	8	7	-	7-8	7-8	3000	1	*
	Eskdalemuir ...	17·4	+16	W'N	3	bc	60	65	46	8	7	-	-	4-6	4-6	2800	1	*
	Point of Ayre ...	19·5	+14	N	3	b	61	75	53	8	1	-	4	Tr	1	3000	0	3
13A	Tiree	18·8	+10	WNW	3	c	57	85	53	8	8	-	-	9	9	2800	0	4
13B	Stornoway ...	16·6	+14	WNW	3	c	58	85	52	8	5	7	2	4-6	9	2500	1	2
15	Dalwhinnie ...		+18	W	3	bc	58	75	49	8	8	-	-	4-6	4-6	2500	0	*
	Aberdeen ...	16·9	+16	E'S	1	pr	55	92	52	7	8	-	-	9	9	2000	1	1
	Wick ...	16·5	+18	ESE	2	bc	54	92	52	8	5	7	-	2-3	4-6	3000	1	*
16	Sumburgh ...	16·3	+10	WNW	1	bc	57	65	56	9	2	6	-	2-3	4-6	2500	0	1
17	Blacksod Point	22·0	+4	W'S	2	bc/p	60	75	52	8	2	-	4	2-3	4-6	2500	0	2
18	Malin Head ...	19·9	+10	WNW	4	c	58	75	50	8	8	-	-	9+	9+	1500	1	3
	Aldergrove ...	20·0	+8	WNW	3	c	62	65	49	8	7	6	2	4-6	7-8	3000	1	*
19	Birr Castle ...	20·9	+2	NW	2	bc	68	55	52	8	2	-	1	4-6	4-6	1500	1	*
20	Valentia Obsy.	22·3	-2	NW'N	3	b	61	65	50	9	1	-	1	Tr	1	2500	1	3
	Roches Point	21·3	+2	S	3	b	64	75	56	9	1	-	-	1	1	4000	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 29th (39)	13h.—18h. 29th (40)	18h. 29th to 1h. 30th (41)	1h.—7h. 30th (42)
1	London (Kew)	cirₒc	cirₒbcy	bcbyw	bwbm
	Croydon ...	ccidₒ	cdₒdₒbc	bcbw	bwmo
	S. Farnborough	cidₒc	cybcy	bcybmow	bmowbmo
	Boscombe Down	cidₒc	bcybc	bcib	b
	Thorney Island	cirₒc	irₒmₒb	bbcb	bcbwbp
	Lympne ...	ccdₒdₒc	cbc	bcFbmow	bmo
	Manston ...	ccmₒ	czₒirddbc	bczomow	bmow
2	Shoeburyness ...	bidₒmₒ	cidₒmₒbcb		bwmo
	Felixstowe ...	cmₒprcmₒ	cmₒbcmₒ	b	bcc
	Gorleston ...	c	prrbcc	bcmobmo	bwmobcmo
	Mildenhall ...	c	cbcb	bmow	bmowbcmₒb
	Cranwell ...	c	cbcy	bybmo	bmocmo
3	Birmingham ...	cbbc	cb	b	bbcm
	Upper Heyford	cmₒc	cbcby	bybmₒ	bmo
4	Ross-on-Wye	cbcv	bcvy	bcvb	bw
5	Hartland Point	odfcdc	bc	bcb	bcb
	Bristol ...	cdₒdₒmₒb	bbcby	bvbw	bmow
	Portland Bill ...	orrc	bc	bc	bcc
	Plymouth ...	cidₒmₒ	cmₒbcb	b	bbwmo
	The Lizard ...	ciddf	dfcbc	bcbw	bbcw
	Scilly (St. Mary's)	dffc	fbccbc	bcbw	bw
	Guernsey ...				
6	Pembroke ...	bc	bc	bcb	bcw
7	Holyhead (Valley)	cidbc	bvy	bvwfg	bwfc
	Chester (Sealand)	cidₒcprₒ	bc	bcb	bcbcw
8	Manchester ...	cirₒmₒ	cbc	bbcmo	cbcm
10	Spurn Head ...	c	c	b	c
	Catterick ...	cprₒbcy	bcy	bcybbw	bwcwbw
	Tynemouth ...	cmc	cbc	bc	bc
11	St. Abbs Head	cprbc	bc	bcc	c
	Leuchars ...	bcirₒmₒbc	bcc	bcc	cbcbw
12	Renfrew (Abbots I.)	cbcy	bcc	cbcc	c
	Eskdalemuir ...	crrbc	bccbc	bcb	bcc
	Point of Ayre ...	ddbcb	b	bbcc	c
13A	Tiree	bc	bcc	c	c
13B	Stornoway ...	bcc	c	c	c
15	Dalwhinnie ...	cprₒ	c		co
	Aberdeen ...	bcprₒ	cprrₒ	cprcc	cmₒ
	Wick ...	cdₒdₒmₒbc	bc	crₒrₒc	ccirₒc
16	Sumburgh ...	bcb	bbc	bbc	bcb
17	Blacksod Point	bc	bc	bc	bc
18	Malin Head ...	pr	c	r	r
	Aldergrove ...	bcc	cbcc	cbcw	bcwfgbcw
19	Birr Castle ...	bc	bc		bc
20	Valentia Obsy.	bc	b	b	bc
	Roches Point	bc	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 30th July 1942.

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales	Light variable winds; fine but with some local mist around dawn, rather warm by day.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light or moderate Westerly wind; fair with some bright periods, average temperature.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland	Moderate Westerly winds mainly cloudy, local showers; some bright intervals; average temperature.
15 N.E. Scotland	As. 7-12.
16 Orkneys and Shetlands 17 N. W. Ireland	As 13 A - 14
18 N. E. Ireland	As 7-12
19 S. E. Ireland 20 S. W. Ireland	As 1-6

GENERAL INFERENCE

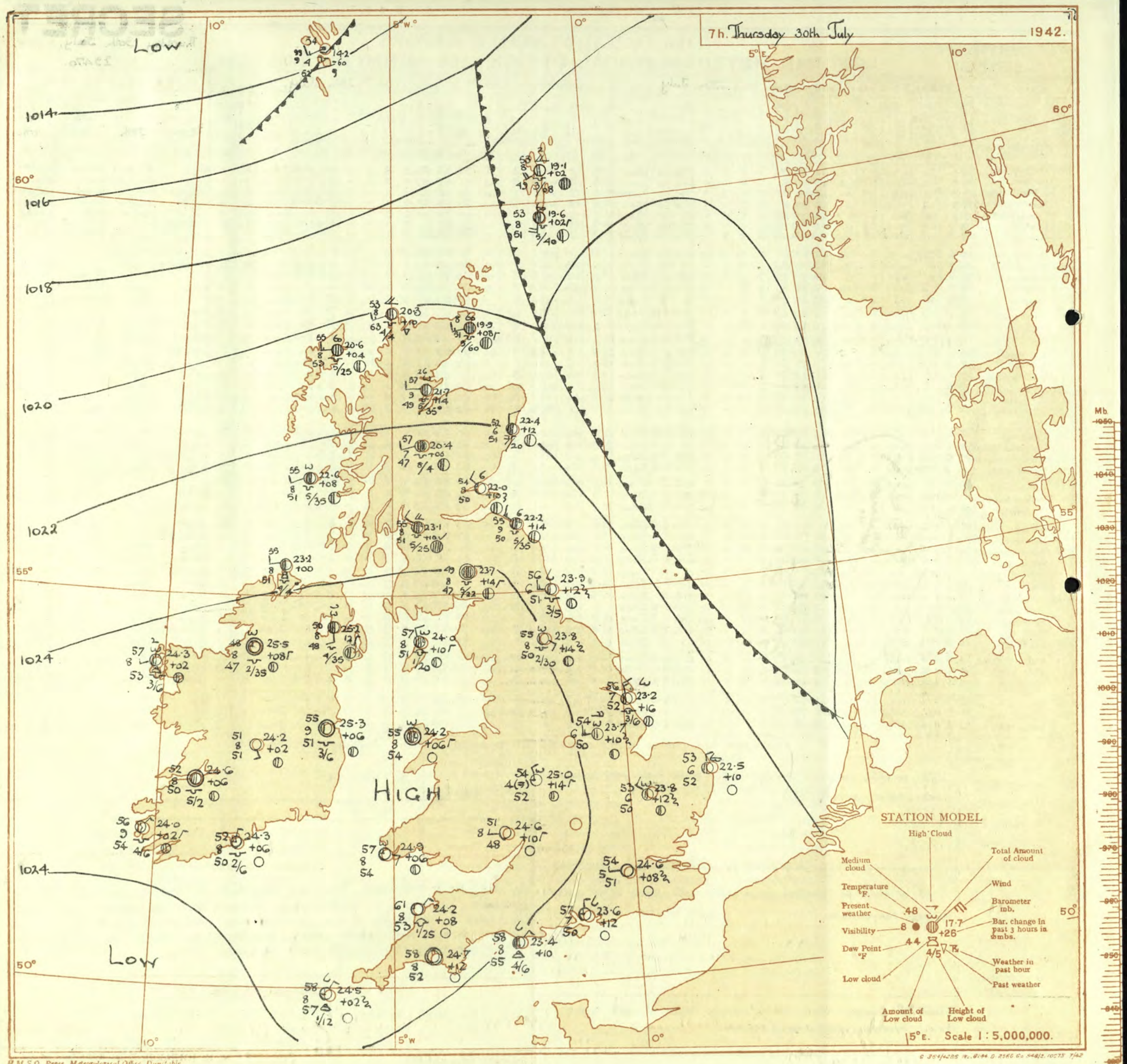
An anticyclone extending from mid Atlantic to Ireland is spreading slightly eastwards. Depression in the Greenland Iceland area are moving east and associated feeble troughs of low pressure are crossing Scotland. Weather will be fair or fine and rather warm in the South and East. In the Northwest it will be mainly cloudy with local showers.

FURTHER OUTLOOK

No great change.

Forecasts issued at 10·30.

N. K. JOHNSON, D.Sc. A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, Meteorological Office, 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).

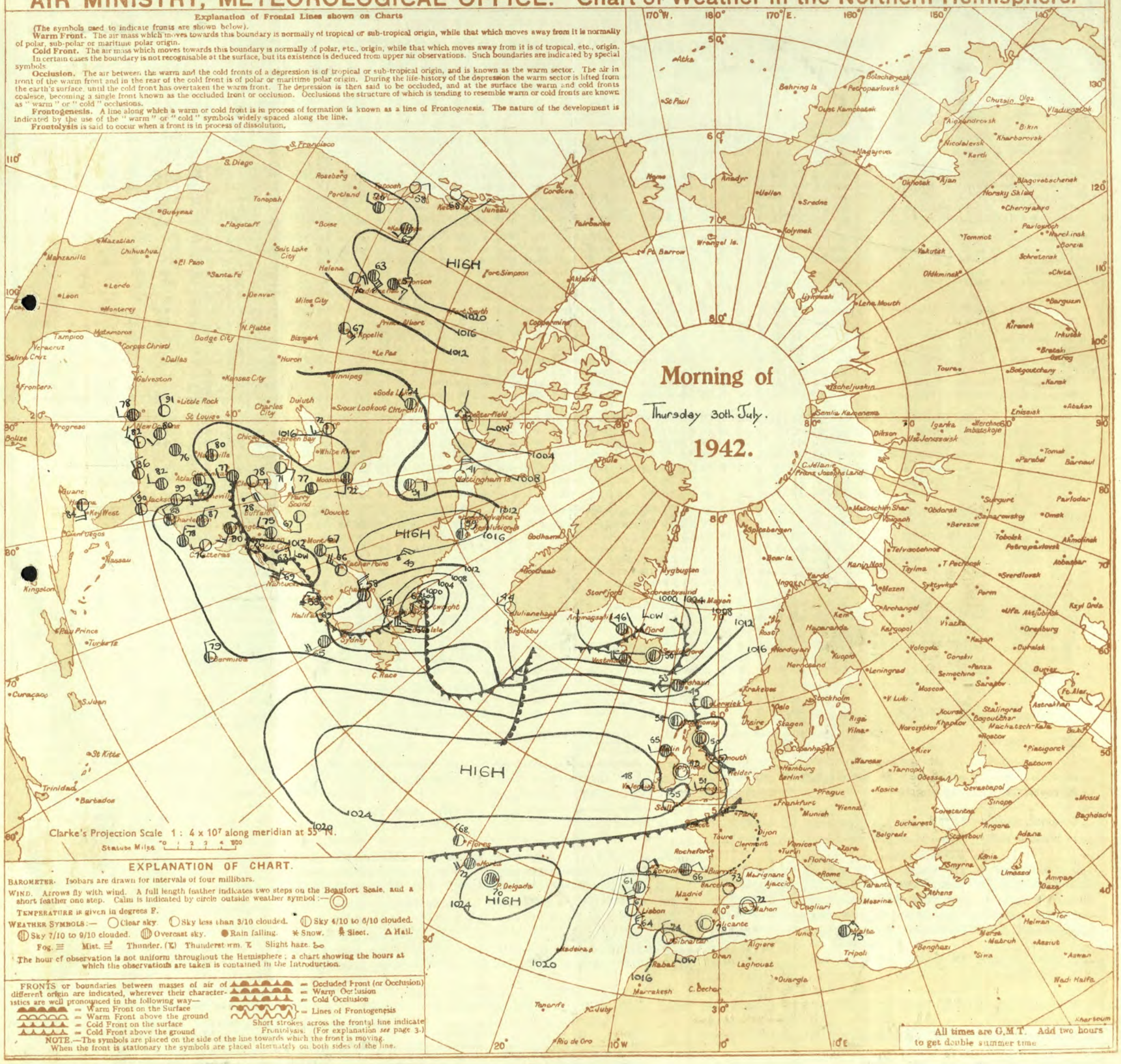
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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 30th July 1942

No. 23470

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)	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	*	*	*	*	*	55	*	*	*	*	*	*	*	*	*
	Croydon	290	22.6	+18	W	1	b	51	92	49	6	-	-	-	0	0	-
	S. Farnborough	226	22.8	+18	WNW	1	z.	53	85	47	6	-	-	-	0	0	-
	Boscombe Down	417	23.3	+18	N	2	z.	53	85	47	6	-	-	-	0	0	-
	Thorney Island	10	22.1	+14	N'E	2	b	56	85	50	8	-	-	-	0	0	-
	Lympne	283	22.2	+14	NNW	3	z.	55	85	51	6	-	-	-	0	0	-
	Manston	154	21.6	+16	-	0	z.	57	97	56	5	-	3	-	0	Tr	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	20.9	+10	NW	2	b	59	92	58	7	-	-	-	0	0	-
	Gorleston	5	20.9	+14	W	2	z.	55	97	54	6	-	-	-	0	0	-
	Mildenhall	15	22.0	+14	W'S	2	b	50	92	48	6	5	-	-	Tr	Tr	4000
	Cranwell	203	22.5	+18	W'N	3	z.	52	97	49	5	-	-	-	0	0	-
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	22.8	+14	NW	1	z.	49	92	47	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23.2	+6	N	3	b	58	92	55	8	-	-	-	0	0	-
	Bristol	209	23.5	+10	S	1	b	52	85	48	8	-	-	-	0	0	-
	Portland Bill	32	22.3	+12	NNW	2	bc	59	85	55	8	1	-	-	2-3	2-3	4000
	Plymouth	82	23.4	+8	-	0	b	55	92	54	8	-	-	-	0	0	-
	The Lizard	240	23.9	+6	N	3	b	54	97	54	8	-	-	-	0	0	-
	Scilly (St Mary's)	163	24.2	+10	NNW	2	b	55	97	54	8	-	-	-	0	0	-
	Guernsey	175															
6	Pembroke	142	24.0	+14	SW	1	b	56	92	54	8	-	-	-	0	0	-
7	Holyhead (Valley)	32	23.8	+10	-	0	fg	49	97	48	8	-	4	-	0	Tr	-
	Chester (Sealand)	16	23.3	+10	-	0	c	52	92	50	8	8	-	-	9+	9+	4000
8	Manchester	235	23.1	+10	WSW	2	z.	49	97	48	6	5	3	-	1	2-3	2500
10	Spurn Head	29	21.3	+20	NNW	4	b	57	85	51	7	-	-	-	0	0	-
	Catterick	175	22.1	+14	WNW	2	bc	51	92	49	8	-	-	-	0	2-3	-
	Tynemouth	108	20.8	+10	W	4	bc	54	85	50	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	19.6	+14	WNW	3	c	56	85	50	8	5	4	-	4-6	7-8	4000
	Leuchars	36	20.2	+8	-	0	c	50	92	48	8	5	4	5	Tr	7-8	3500
12	Renfrew (Abbots I.)	19	21.6	+10	WSW	1	c	52	92	49	8	5	1	-	9+	10	3500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	22.7	+8	N!W	2	c.	56	85	52	8	5	3	-	4-6	9+	4500
13A	Tiree	22	21.3	+8	NNW	2	c	54	85	50	8	5	-	-	9+	9+	2500
13B	Stornoway	80	19.7	+6	-	0	c	54	92	52	7	5	7	-	7-8	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	20.4	+10	-	0	c	50	97	49	8	5	3	-	4-6	7-8	4000
	Wick	114	19.5	+10	-	0	c/r	53	97	52	8	5	3	-	7-8	10	1200
16	Sumburgh	19	19.5	+14	W	2	bc	51	92	50	8	-	7	6	0	2-3	-
17	Blacksod Point	18	24.1	+6	-	0	bc	51	92	49	8	8	3	-	4-6	4-6	2500
18	Malin Head	84	22.6	+8	W	2	c/r	55	85	50	8	8	2	-	7-8	10	1500
	Aldergrove	268	23.6	+8	-	0	bc	52	85	48	8	5	3	1	4-6	7-8	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	24.0	-2	SW	2	b	48	97	47	9	5	-	-	1	1	5700
	Roches Point	22	23.9	+6	N	3	b	55	97	54	8	-	-	-	0	0	-

OBSERVATIONS at 7 hr. G.M.T. 30th 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)	24.2	+10	-	0	m	55	85	49	4	-	-	-	0	0	-	1	*
Croydon	24.0	+8	WSW	1	z.	54	85	51	5	-	-	-	0	0	-	1	*
S. Farnborough	24.1	+8	-	0	z.	52	85	48	6	-	-	-	0	0	-	0	*
Boscombe Down	24.3	+8	N	2	b	55	85	49	7	-	4	-	0	1	-	0	*
Thorney Island	23.6	+12	N	1	b	57	75	50	7	-	4	-	0	1	-	0	*
Lympne	23.2	+6	NNW	1	z.	58	85	53	6	-	-	9	0	Tr	-	0	§1
Manston	23.2	+10	NNW	2	z.	59	85	54	6	-	4	-	0	Tr	-	0	*
Shoeburyness	23.2	+12	NW	2	b	57	85	51	6	-	5	-	0	Tr	-	0	*
Felixstowe	22.6	+4	NW	2	c	55	85	52	5	5	-	-	7-8	7-8	5700	0	1
Gorleston	22.8	+10	NNW	2	z.	53	97	52	6	-	7	-	0	4-6	-	1	2
Mildenhall	22.8	+12	WNW	2	z.	53	92	50	6	-	3	-	0	4-6	-	0	*
Cranwell	23.7	+10	W	3	z.	54	85	50	6	-	3	2	0	2-3	-	0	*
Birmingham	24.5	+10	NW	2	m	55	85	51	4	-	-	-	0	0	-	1	*
Upper Heyford	24.1	+10	NNW	3	z.	53	85	50	5	-	3	-	0	Tr	-	0	*
Ross-on-Wye	24.6	+10	WSW	1	b	51	92	48	8	-	-	-	0	0	-	0	*
Hartland Point	24.2	+8	NE	2	b	61	75	53	8	4	-	-	Tr	Tr	2500	0	3
Bristol	25.3	+10	-	0	z.	55	85	51	6	-	3	-	0	1	-	0	*
Portland Bill	23.4	+10	NE	1	c	58	92	56	8	2	4	-	4-6	7-8	4000	1	3
Plymouth	24.7	+12	-	0	z.	58	85	52	8	-	-	-	0	0	-	0	2
The Lizard	24.1	+4	NNW	2	bc	57	92	55	8	4	-	-	2-3	2-3	2500	0	2
Scilly (St Mary's)	24.5	+2	NE'N	1	b	58	97	57	8	2	4	-	Tr	1	1200	0	2
Guernsey																	
Pembroke	24.9	+6	SE'E	2	b	57	92	54	8	-	3	-	0	1	-	0	2
Holyhead (Valley)	24.2	+6	-	0	c	55	92	54	8	-	3	-	0	9+	-	1	1
Chester (Sealand)	24.2	+8	-	0	bc	56	85	52	8	8	3	-	1	7-8	5000	1	*
Manchester	24.1	+8	WSW	1	z.	55	97	54	6	1	3	-	1	2-3	2500	0	*
Spurn Head	23.2	+16	NW'N	3	bc	56	85	52	7	4	5	-	2-3	4-6	4000	0	3
Catterick	23.8	+14	SE	2	bc	55	85	50	8	5	3	-	1	2-3	3000	0	*
Tynemouth	23.9	+12	W	3	bc	56	85	51	6	5	4	-	2-3	4-6	2500	1	2
St. Abbs Head	22.2	+14	WNW	3	c	55	85	50	9	5	4	-	7-8	9	3500	0	3
Leuchars	22.0	+10	WNW	2	b	54	85	50	8	-	4	5	0	1	-	0	*
Renfrew (Abbots I.)	23.1	+10	W'N	2	c	55	85	51	8	5	2	-	7-8	9+	2300	1	*
Eskdalemuir	23.7	+14	-	0	c	49	92	47	8	5	-	-	7-8	9+	2200	1	*
Point of Ayre	24.0	+10	NW'N	2	c	57	85	51	8	4	3	-	Tr	9+	2000	0	2
Tiree	22.6	+8	SW'W	1	c	55	85	51	8	5	3	-	7-8	7-8	3500	0	3
Stornoway	20.6	+4	WSW	3	c	55	92	53	8	5	7	-	7-8	10	2500	1	1
Dalwhinnie	22.4	0	SW	2	o	51	85	47	7	5	-	-	10	10	1500	0	*
Aberdeen †	22.4	+12	NW'N	2	z.	52	97	51	6	5	-	-	9+	9+	2000	1	1
Wick	21.2	+12	W'S	1	c/r	53	92	51	9	5	7	-	7-8	10	4000	1	*
Sumburgh	19.6	+2	S	2	c	53	92	51	8	5	7	-	7-8	9+	4000	0	1
Blacksod Point	24.3	+2	SW'S	2	bc	57	85	52	8	8	3	5	2-3	4-6	4000	0	2
Malin Head	23.2	+6	W'S	1	bc	55	85	51	8	8	-	-	4-6	4-6	1500	1	3
Aldergrove	25.2	+12	SSE	1	bc	50	97	48	8	5	3	1	4-6	7-8	3500	1	*
Birr Castle	24.2	+2	SSE	1	b	51	97	50	8	-	-	-	0	0	-	0	*
Valentia Obsy.	24.0	+2	NE	1	bc	56	92	54	9	5	-	-	4-6	4-6	4000	1	2
Roches Point	24.3	+6	N	1	b	52	92	50	8	5	-	-	1	1	4000	1	2

PAST 24 HOURS.

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 29th Hrs. (38)
London (Kew)	73	49	34	Tr	-	4.2
Croydon	72	47	44	0.1	Tr	4.1
S. Farnborough	75	45	34	Tr	Tr	3.6
Boscombe Down	72	47	35	Tr	-	6.5
Thorney Island	70	52	*	Tr	-	*
Lympne	66	48	*	-	-	3.3
Manston	68	53	47	Tr	-	3.5
Shoeburyness	71	49	41	Tr	-	4.9
Felixstowe	73	55	50	Tr	-	6.0
Gorleston	71	50	48	5	-	3.4
Mildenhall	72	46	39	-	Tr	5.2
Cranwell	*	48	41	-	-	9.2
Birmingham	73	51	40	-	-	8.
Upper Heyford	74	47	40	Tr	-	*
Ross-on-Wye	73	45	38	-	-	8.5
Hartland Point	63	56	53	5	-	7.4
Bristol	71	46	34	Tr	-	7.9
Portland Bill	61	56	*	0.6	-	*
Plymouth	71	50	41	Tr	-	6.3
The Lizard	67	53	*	0.5	-	5.3
Scilly (St Mary's)	65	54	*	Tr	Tr	6.2
Guernsey						
Pembroke	67	51	*	Tr	-	9.3
Holyhead (Valley)	67	46	38	0.1	-	*
Chester (Sealand)	64	49	48	Tr	-	7.3
Manchester	65	48	41	0.2	-	*
Spurn Head	65	54	*	-	-	7.3
Catterick	69	48	43	0.1	-	10.5
Tynemouth	69	51	49	-	-	*
St. Abbs Head	66	53	*	Tr	-	*
Leuchars	69	(50)	42	Tr	-	9.4
Renfrew (Abbots I.)	66	50	43	Tr	-	8.9
Eskdalemuir	64	43	38	1	-	8.0
Point of Ayre	64	51	*	0.3	-	10.8
Tiree	61	52	*	Tr	Tr	9.
Stornoway	60	53	*	Tr	-	11.3
Dalwhinnie	63	40	30	Tr	-	7.3
Aberdeen †	63	47	40	1	0.2	5.1
Wick	57	47	44	1	2	*
Sumburgh	58	48	40	0.1	-	10.2
Blacksod Point	62	48	*	-	Tr	*
Malin Head	60	51		0.3	Tr	3.5
Aldergrove	65	45	39	-	-	8.6
Birr Castle	69	45	43	-	-	9.3
Valentia Obsy.	63	47	41	-	0.1	12.8
Roches Point	68	52	*	-	Tr	*

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	13h $C_L C_M$	13h $wwVhN_h$	13h DDFWN	18h $C_L C_M$	18h $wwVhN_h$	18h DDFWN	01h $C_L C_M$	01h $wwVhN_h$	01h DDFWN	07h $C_L C_M$	07h $wwVhN_h$	07h DDFWN
100	80	01854	07214	20	01853	10113	5-	02848	16328	57	03875	20328
115	52	09834	12227	52	02944	14126				52	02844	20387
203												
206	8-	81966	22186	8-	02965	10285	53	02961	24125	53	02965	24267
210	2-	81866	02316	4-	02966	06286	53	02863	24227	53	02964	20226
220				70	01944	24204						
230	8-	01945	25385	8-	02955	26385	52	22755	18168	62	52845	30158
245	26	81954	08386	86	10966	06386	5-	02868	00018	54	02866	24126
260	20	02855	23365	10	01663	23313	00	05690	24115	5-	05564	23215
278	80	01864	28514	53	02864	28515	57	02867	26328	5-	02857	23327
279	26	01954	26314	26	01964	28314	53	01964	22315	5-	02868	00028
285										13	01852	30413
288	2-	01874	58385	16	01863	24313	00	00890	16203	04	05690	00011
575	20	02955	26425	46	01954	26325	03	02890	00026	53	00862	00013
301				10	00961	28401	53	01862	28215	84	02866	28227
321	83	05655	28355	20	00861	28411	00	05690	28301	03	05590	26224
299	54	01754	00015				00	00790	25200	04	00790	30202
292	2-	10954	26285	20	00963	27483	00	00890	24101	03	01890	29114
310	--	01626	24326									
614	20	05663	26323	04	05690	29311	00	05590	32210	03	05590	26212
333	26	01963	28413	10	00961	30203	03	00890	30102	5-	02833	00015
334	--	01653	28214	--	01761	26202				--	05432	00014
340	2-	01955	30485	14	01962	31402	03	01890	28114	03	01890	00014
136	1-	22745	22265	26	05654	05284	00	05690	23210	55	01773	30215
336				00	00790	28400				--	46309	28349
350	86	01764	20365	1-	00861	27422	00	05690	24110	53	05551	26212
368	80	01844	24414	10	00961	30301	50	01763	01203	04	00890	00012
379	80	01955	24455	80	00962	32413				04	00790	32301
390	5-	21648	22368	80	01764	26324	00	05690	25200	04	05590	28202
382	26	01865	22355	26	01962	31413	00	00790	00000	00	00790	00000
438	52	02735	22528	--	48109	22529	07	01790	32413	04	00690	22302
430	5-	02658	20328	50	01763	20313	50	00751	02301	00	00790	32101
409	5-	02838	27328	14	00942	30313	00	00890	30100	00	09990	06240

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 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
Kew	cir.c	cir.bcy	bcbyw
Croydon	ccid.	cdodobc	bcbwm.
Greenwich	cid	cbc	bcbwzo
Camden Square	c	c	*
Kensington	bc	bz	*
Hampstead	bcp	bc	b

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max./Time 0.5 6h 30th. Min./Time 0.1 21h 29th

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	49	34	Tr	-	4.2	*	*
Croydon	72	47	44	0.1	Tr	4.1	*	*
Greenwich	74	51	35	Tr	-	4.7	69	62
Westminster	73	51	48	-	-			
Regents Park	74	49	40	-	-		68	57
Camden Square	74	51	43	-	-	*	*	70
Kensington	75	50	38	Tr	-		53	63
Hampstead	72	59	58	Tr	-		*	66

BRITISH SECTION

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

SECRET

Friday 31st July 1942

No. 2947A

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)	°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)	23·8	−6	NE'E	2	bc	71	45	48	7	1	-	-	4·6	4·6	2500
	Croydon ...	23·7	−2	W	1	bc	71	55	55	6	1	-	-	4·6	4·6	3500
	S. Farnborough	23·8	−8	NW	1	bc	71	45	48	8	1	-	-	2·3	2·3	3000
	Boscombe Down	24·1	−6	NE	2	bc	70	45	48	8	1	-	-	2·3	2·3	3500
	Thorney Island	23·6	−4	S	3	bc	71	55	54	7	1	-	-	2·3	2·3	4000
	Lympne ...	24·4	+2	SE	2	zo	66	75	57	6	2	6	-	2·3	2·3	3500
	Manston ...	24·7	+6	E'S	1	zo	68	55	52	6	1	-	-	Tr	Tr	4000
2	Shoeburyness ...	24·1	−4	ESE	3	bc	67	65	57	6	-	5	-	0	2·3	-
	Felixstowe ...	24·4	+2	SE	2	zo	67	75	59	6	5	-	-	1	1	4000
	Gorleston ...	24·8	+8	E'N	2	c	62	75	55	7	8	3	-	4·6	7·8	2400
	Mildenhall ...	24·3	−2	N'W	2	bc	71	55	51	8	1	-	-	4·6	4·6	4000
	Cranwell ...	23·9	−4	NNW	2	zo	68	55	51	6	1	-	-	4·6	4·6	4500
3	Birmingham ...	24·8	−2	NW	2	bc	65	45	44	8	7	-	-	7·8	7·8	4000
	Upper Heyford	24·4	−4	NNW	2	bc	68	55	49	7	1	-	-	4·6	4·6	3000
4	Ross-on-Wye	23·4	-	NW	3	bc	69	53	49	8	7	-	-	4·6	4·6	4000
5	Hartland Point	24·6	−2	NNE	2	bc	62	85	56	8	1	-	-	1	1	3000
	Bristol ...	25·0	−4	NNW	2	c	69	55	51	9	1	-	-	4·6	4·6	6300
	Portland Bill ...	24·3	−2	SW	2	bc	60	85	51	8	1	-	-	2·3	2·3	4000
	Plymouth ...	24·6	−2	SSW	2	bc	67	55	52	8	1	-	-	2·3	2·3	3000
	The Lizard ...	24·8	0	NE	2	bc	65	65	54	8	2	-	-	2·3	2·3	3500
	Scilly (St. Mary's)	24·8	−2	NE'E	2	bc	70	65	58	8	2	4	-	2·3	4·6	1200
	Guernsey ...															
6	Pembroke ...	25·4	−2	SSW	2	b	62	85	59	8	2	4	-	Tr	1	-
7	Holyhead (Valley)	25·1	0	SW	1	bc	62	85	58	9	2	6	-	1	2·3	3500
	Chester (Sealand)	24·9	0	NW'N	2	bc	66	55	48	8	1	-	-	2·3	2·3	3000
8	Manchester ...	24·7	−2	WNW	3	bc	64	65	50	7	2	6	-	4·6	4·6	2500
10	Spurn Head ...	24·7	+12	ENE	3	b	63	75	55	7	1	-	-	1	1	4000
	Catterick ...	24·5	+2	W'N	1	c	66	55	51	8	7	-	-	9+	9+	3500
	Tynemouth ...	24·8	+4	SE	3	c	59	85	53	8	8	-	-	7·8	7·8	3200
11	St. Abbs Head	23·4	0	SE	1	c	61	75	52	7	5	4	-	4·6	7·8	3000
	Leuchars ...	22·9	0	WSW	2	c	66	55	52	9	5	-	1	7·8	7·8	4000
12	Renfrew (Abbots I.)	24·0	+2	WNW	3	c	63	65	49	9	5	2	-	9	9+	2500
	Eskdalemuir ...	24·1	+2	SWW	2	c	59	65	46	8	5	-	-	9	9	2500
	Point of Ayre ...	25·4	+4	NW	2	bc	65	65	54	8	7	-	-	2·3	2·3	4500
13A	Tiree ...	23·5	0	WSW	3	bc	59	85	53	8	1	3	-	2·3	2·3	3500
13B	Stornoway ...	20·0	−12	WSW	4	c	60	75	52	8	5	7	-	4·6	9+	2500
15	Dalwhinnie ...	24·0	+2	SW	2	c	61	65	48	8	8	3	-	7·8	9	2500
	Aberdeen ...	23·2	+2	S	3	bc	62	65	51	8	7	4	-	4·6	4·6	3000
	Wick ...	22·1	+2	WNW	1	c	59	85	55	9	8	7	-	4·6	10	3000
16	Sumburgh ...	20·5	+2	SW	4	bc	57	92	54	8	8	3	2	2·3	4·6	1500
17	Blacksod Point	24·6	0	S'W	1	bc	62	65	50	9	1	7	-	1	4·6	4000
18	Malin Head ...	24·1	−2	N	2	b	59	75	51	8	8	-	9	1	2·3	2500
	Aldergrove ...	25·2	−2	NW	1	bc	64	55	47	9	1	-	5	2·3	4·6	3500
19	Birr Castle ...	24·1	−2	W	1	bc	69	55	52	8	1	-	-	2·3	2·3	2500
20	Valentia Obsy.	24·3	+2	SSW	2	c	65	75	55	9	8	-	-	9	9	5700
	Roches Point	24·5	−2	SE	3	b	63	85	58	8	1	-	-	1	1	4000

OBSERVATIONS at 18h. 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)	°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)	22·8	−6	NNE	2	c	73	43	49	7	5	-	-	8	9	4000	0	*
	Croydon ...	22·8	−6	SSE	2	bc	69	65	58	7	2	-	-	4·6	4·6	3500	0	*
	S. Farnborough	22·4	−4	NE	1	bc	73	43	48	8	1	-	1	Tr	1	4000	0	*
	Boscombe Down	22·9	−6	NE'N	2	b	71	45	50	8	1	-	-	1	1	4500	0	*
	Thorney Island	23·0	−6	S	3	zo	65	85	60	6	-	3	1	0	Tr	-	0	*
	Lympne ...	23·4	−10	E	1	b	63	65	52	8	-	-	-	0	0	-	0	§1
	Manston ...	23·8	−4	E'S	1	b	65	55	50	8	-	-	-	0	0	-	0	*
2	Shoeburyness ...	23·5	−8	ESE	3	b	67	65	54	8	-	5	-	0	1	-	0	*
	Felixstowe ...	23·8	−4	SE	2	b	66	75	56	7	5	-	-	Tr	Tr	5700	0	1
	Gorleston ...	24·4	−4	SE'E	2	bc	63	85	58	7	2	3	-	2·3	2·3	3000	0	2
	Mildenhall ...	23·5	−6	N'W	2	bc	70	55	51	8	8	-	-	2·3	2·3	4000	0	*
	Cranwell ...	23·4	−2	E'S	2	bc	67	75	61	7	1	3	-	Tr	2·3	3500	0	*
3	Birmingham ...	23·7	−4	NNW	2	bc	67	45	47	8	7	-	-	2·3	2·3	4000	1	*
	Upper Heyford	23·2	−6	N'E	1	zo	70	45	50	6	4	-	-	2·3	2·3	3500	0	*
4	Ross-on-Wye	23·4	−6	N'E	1	bc	68	55	50	8	1	-	-	2·3	2·3	4000	0	*
5	Hartland Point	24·2	−4	N	2	b	60	85	55	8	-	-	-	0	0	-	0	3
	Bristol ...	23·7	−6	NE	2	b	70	55	51	8	4	-	-	Tr	Tr	7200	0	*
	Portland Bill ...	22·7	−6	W	2	bc	62	85	58	8	1	-	-	2·3	2·3	4000	2	2
	Plymouth ...	23·8	−6	SW	2	b	65	75	53	8	5	3	-	1	2·3	3000	0	2
	The Lizard ...	23·9	−8	-	0	b	65	65	54	8	-	-	-	0	0	-	0	2
	Scilly (St. Mary's)	24·0	−6	N	2	bc	64	75	54	8	-	4	-	0	2·3	-	0	2
	Guernsey ...																	
6	Pembroke ...	24·3	−6	WNW	3	b	62	85	57	8	2	4	-	2·3	2·3	3500	0	2
7	Holyhead (Valley)	24·4	−4	E	1	b	66	65	51	9	4	-	-	Tr	Tr	4000	0	1
	Chester (Sealand)	24·2	−4	WNW	2	bc	65	65	52	8	1	-	-	Tr	Tr	4000	0	*
8	Manchester ...	24·2	−2	NNW	2	b	65	55	50	8	-	-	-	0	0	-	0	*
10	Spurn Head ...	24·9	0	E'S	3	b	59	92	57	7	-	-	-	0	0	-	0	3
	Catterick ...	24·0	−2	-	0	bc	67	55	51	8	7	3	1	2·3	4·6	4000	0	*
	Tynemouth ...	24·7	0	SSE	3	bc	58	92	55	7	8	-	-	4·6	4·6	3200	1	2
11	St. Abbs Head	23·0	0	SE	2	bc	58	85	52	7	5	-	-	4·6	4·6	4000	0	2
	Leuchars ...	22·2	−4	SW	2	bc	68	65	56	8	1	3	9	Tr	4·6	4500	0	*
12	Renfrew (Abbots I.)	23·4	−6	WSW	2	bc	64	65	50	9	4	7	-	2·3	7·8	3300	0	*
	Eskdalemuir ...	23·6	−2	SW'W	2	c	60	65	49	8	5	-	-	7·8	7·8	2400	1	*
	Point of Ayre ...	24·9	−2	S	2	b	61	75	52	8	4	-	4	Tr	1	3500	0	1
13A	Tiree ...	23·3	−2	SW'S	2	c	57	85	51	8	5	7	-	4·6	9	3500	0	2
13B	Stornoway ...	21·2	−4	SW	5	c	59	85	55	8	5	7	-	7·8	9+	2500	0	3
15	Dalwhinnie ...	22·6	0	W	2	bc	61	65	47	8	1	3	1	Tr	2·3	4000	0	*
	Aberdeen ...	22·6	−2	S'W	2	bc	61	75	52	7	4	4	4	1	2·3	3000	0	1
	Wick ...	21·6	−2	-	0	c	59	92	56	9	7	7	-	4·6	9	3500	1	*
16	Sumburgh ...	20·6	−6	SSW	4	c	55	85	51	8	5	7	1	7·8	7·8	3000	0	1
17	Blacksod Point	22·8	−18	WSW	2	bc	63	65	52	9	1	7	4	1	4·6	4000	0	2
18	Malin Head ...	23·6	−6	E'S	3	bc	57	85	52	8	5	-	7	4·6	7·8	2500	0	2
	Aldergrove ...	23·9	−6	-	0	b	66	55	51	8	4	-	9	1	2·3	3500	0	*
19	Birr Castle ...	22·5	−14	SSE	1	bc	72	55	57	8	1	3	-	2·3	4·6	2500	0	*
20	Valentia Obsy.	23·3	−8	S'E	3	c	66	85	61	9	5	-	-	9+	9+	4000	0	2
	Roches Point	23·8	−6	S	3	bc	63	85	58	9	1	4	-	1	2·3	4000	1	2

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 30th (39)	13h.—18h. 30th (40)	18h. 30th to 1h. 31st (41)	1h.–7h. 31st (42)
1	London (Kew)	bzobcy	bcy	ezobcw	bcbmow
	Croydon ...	bbcmoy	bzybc	bmowcmo	bmow
	S. Farnborough	bmobcy	bcyby	bycbmw	bmujfbmo
	Boscombe Down	by	bcyby	bbmo	bmob
	Thorney Island	bby	bbmo	bobmow	bmobcw
	Lympne ...	bmo	b	b	bwbv
	Manston ...	bmobczoy	bzyby	bybmow	bmob
2	Shoeburyness ...	cmobczobzobzob	bw		bwbc
	Felixstowe ...	cmobcmobmobmob	bmo		bmobo
	Gorleston ...	bcc	bbc	bcb	cbc
	Mildenhall ...	bmobbcy	bcy	bmobfF	oFcbcmo
	Cranwell ...	bcy	bcbyb	bcbcm	bcmoofc
3	Birmingham ...	bbc	bcy	bcbm	bm
	Upper Heyford	bmobbc	bcbcy	bzcmo	cmobcmo
4	Ross-on-Wye	bbcy	bcy	bcb	bmw
5	Hartland Point	bbc	bcb	bcb	bbcw
	Bristol ...	bmzobbc	bcvby	bybzmow	bmofgw
	Portland Bill ...	cvcbcw	bcbc	bc	bcc
	Plymouth ...	bbcy	b	bbcb	bwmajf ✓
	The Lizard ...	bc	bcbyb	bbc	bc
	Scilly (St. Mary's)	bbc	bc	bcbw	bbcw
6	Pembroke ...	c	bcb	bc	bccw
7	Holyhead (Valley)	cbcb	b	bw	bwfbc
	Chester (Sealand)	cbc	by	b	bmobm
8	Manchester ...	cbc	bcby	bym	bmmo
10	Spurn Head ...	b	b	bbc	oF
	Catterick ...	bbcc	cbcy	bcybm	bcmojfm
	Tynemouth ...	bcc	cbc	bcmo	bcmoff
11	St. Abbs Head	cbcc	cmobc	b	bbcc
	Leuchars ...	bccy	cybc	bc	bccmow
12	Renfrew (Abbots I.)	c	bcybc	bccm	cbcmoc
	Eskdalemuir ...	c	c	c	cF
	Point of Ayre ...	cbc	bcb	bbcb	bbc
13A	Tiree ...	bc	cbcc	cr	bw
13B	Stornoway ...	c	c	c	crr
15	Dalwhinnie ...	bc	cbc		bco
	Aberdeen ...	cmobc	bcb	bzo	bbcw
	Wick ...	c	ecjp	bc	circ
16	Sumburgh ...	cprbc	bcc	crbc	crcrirc
17	Blacksod Point	bc	bc	r	f
18	Malin Head ...	bc	bc	bc	c
	Aldergrove ...	bcbcy	bcy by	bybc	cwcbc
19	Birr Castle ...	bc	bc		c
20	Valentia Obsy.	bc	c	d	d
	Roches Point	b	b	bc	f

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 31st July 1942.

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales	Light variable winds becoming Southwest; fine at first; chance of local thundery rain tomorrow; warm
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	Light or moderate Southwest winds veering Northwest tomorrow; fair at first; occasional rain later; warm becoming cooler.
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 Southwest winds veering Northwest; occasional rain at first; fair later; becoming cooler.
16 Orkneys and Shetlands	As 11–16.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light variable winds becoming Northwest or North. occasional rain at first; fair later; becoming cooler.

GENERAL INFERENCE

The anticyclone over the Southern North Sea is receding East-southeast and a trough of low pressure off our Northwest seaboard will move Southeast; There will be occasional rain in the North followed by fair weather. In the South weather will be fine but there is a chance of local thundery rain later.

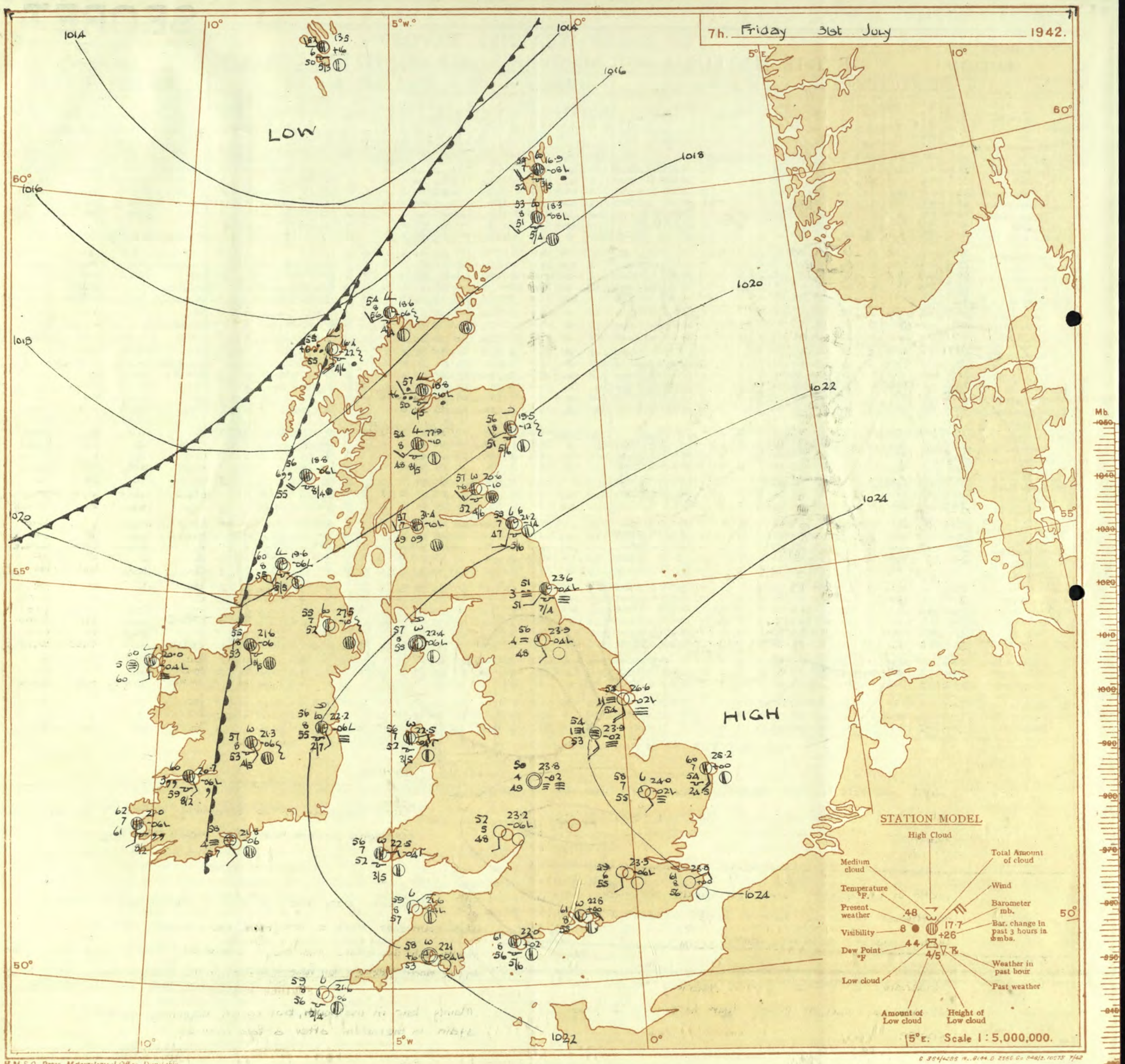
FURTHER OUTLOOK

Mainly fair in the South, but cooler. Becoming unsettled again in the North after a fair interval.

Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc. A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday 31st July 1942.



H.M.S.O. Press, Meteorological Office, 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).

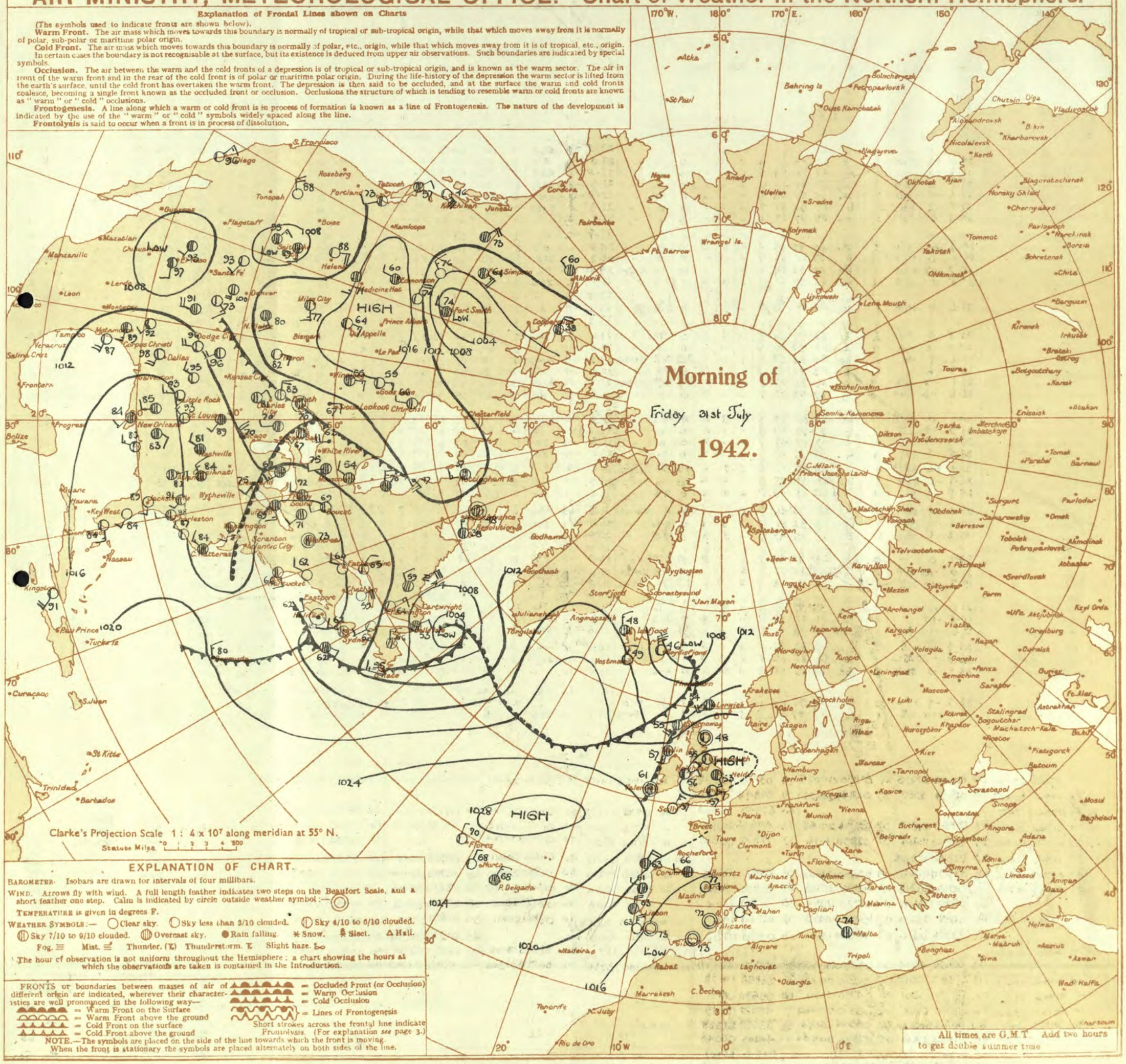
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



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. T 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.

BRITISH SECTION

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

Friday 31st July 1942

No. 29471

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)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	61	*	*	*	*	*	*	*	*	*
	Croydon	290	24.0	+2	SSE	1	b	57	85	51	6	-	4	-	0	Tr	-
	S. Farnborough	226	22.8	+2	-	0	m	57	92	54	4	-	-	-	0	0	-
	Boscombe Down	417	23.5	0	NE'N	2	z.	57	85	51	6	-	-	-	0	0	-
	Thorney Island	10	23.1	-4	NE	2	z.	55	97	53	6	-	-	-	0	0	-
	Lympne	283	23.9	-2	E	2	b	57	92	55	7	-	-	-	0	0	-
	Manston	154	24.3	0	E	2	z.	58	97	57	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	24.7	0	E'N	3	z.	60	85	55	6	-	-	-	0	0	-
	Gorleston	5	25.2	0	SE'E	3	b	59	85	53	7	-	-	-	0	0	-
	Mildenhall	15	24.2	-2	ENE	2	F+	55	92	54	1	-	-	-	10	10	<150
	Cranwell	203	24.5	0	E'S	1	m	52	97	51	4	-	3	-	0	2-3	-
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	23.6	0	NNE	1	z.	54	85	51	5	-	3	-	0	7-8	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23.5	-4	NE	2	b	58	92	56	8	-	4	-	0	Tr	-
	Bristol	209	24.0	-2	-	0	z.	52	92	50	6	-	-	-	0	0	-
	Portland Bill	32	22.3	-2	NE	2	bc	60	92	58	8	1	-	-	2-3	2-3	4000
	Plymouth	82	23.3	-6	-	0	b	53	92	51	8	-	-	-	0	0	-
	The Lizard	240	23.1	-6	N'E	4	bc	56	85	51	8	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	23.6	-6	NE	3	b	57	92	55	7	-	-	-	0	0	-
	Guernsey	175															
6	Pembroke	142	24.1	0	NE'E	2	bc	56	85	52	8	-	3	-	0	4-6	-
7	Holyhead (Valley)	32	23.9	-4	E	1	b	51	92	49	8	-	-	-	0	0	-
	Chester (Sealand)	16	24.3	-4	-	0	b	49	97	48	7	-	-	-	0	0	-
8	Manchester	235	24.5	-2	E	3	m	48	97	47	4	-	-	-	0	0	-
10	Spurn Head	29	25.6	+6	SE'S	3	c	58	97	57	6	2	7	-	4-6	9+	1500
	Catterick	175	24.8	-2	SSE	1	z.	49	92	48	5	-	-	-	0	0	-
	Tynemouth	108	24.7	-4	SW	2	z.	55	85	49	5	-	4	-	0	2-3	-
11	St. Abbs Head	280	23.0	-4	SSW	2	b	55	75	46	7	5	-	-	1	1	5000
	Leuchars	36	22.2	-2	WSW	2	bc	53	92	51	7	-	3	1	0	4-6	-
12	Renfrew (Abbots I.)	19	23.2	-6	NNE	1	z.	53	85	49	6	-	3	2	0	7-8	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	24.1	0	-	0	b	49	85	46	8	5	-	9	0	Tr	-
13A	Tiree	22	21.0	-16	S'E	3	r.r.	55	85	52	7	5	-	-	10	10	2000
13B	Stornoway	80	19.7	-10	SSW	5	c	55	92	53	7	5	7	-	7-8	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	21.6	-2	-	0	f.	48	97	48	8	-	4	-	0	Tr	-
	Wick	114	20.5	-10	-	0	bc	51	92	49	8	-	7	6	0	2-3	-
16	Sumburgh	19	19.6	-10	SW	5	r.r.	54	85	51	8	5	-	-	9+	9+	1500
17	Blacksod Point	18	21.4	-6	S	3	c	59	92	57	8	8	-	-	9	9	1500
18	Malin Head	84	20.9	-12	SSW	1	c	57	85	52	8	5	2	4	4-6	9	2500
	Aldergrove	268	23.2	-2	SE'S	2	bc	53	75	45	8	-	4	-	0	4-6	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	22.7	-8	-	0	z.	61	97	60	6	5	-	-	9+	9+	450
	Roches Point	22	23.1	-10	S	1	c	57	97	56	8	5	-	-	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 31st 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)	23.5	+4	ESE	1	z.	60	85	53	5	-	-	-	0	0	-	0	*
Croydon	23.3	-6	S'E	1	z.	59	85	55	6	-	-	-	0	0	-	0	*
S. Farnborough	23.5	-2	ESE	1	z.	55	85	53	6	-	-	-	0	0	-	0	*
Boscombe Down	22.9	-6	E'S	3	b	59	75	52	7	-	-	-	0	0	-	0	*
Thorney Island	22.8	0	E	3	bc	61	85	55	8	-	3	-	0	2-3	-	0	*
Lympne	23.8	0	ENE	2	b	61	75	56	8	-	-	-	0	0	-	0	§2
Manston	23.8	-2	E	1	b	61	85	56	8	1	-	-	Tr	Tr	2500	0	*
Shoeburyness	23.8	-2	E	3	bc	63	85	57	8	1	-	-	4-6	4-6	1100	0	*
Felixstowe	24.5	0	E'S	2	bc	62	85	56	8	7	-	-	4-6	4-6	2500	0	2
Gorleston	25.2	0	SSE	3	bc	60	85	54	7	5	-	-	4-6	4-6	2500	0	3
Mildenhall	24.0	-2	SE	2	b	58	92	55	7	-	4	-	0	Tr	-	0	*
Cranwell	23.9	-2	SSE	3	F-	54	97	54	1	-	-	-	10	10	<150	1	*
Birmingham	23.5	-4	-	0	f	57	75	50	3	-	-	-	0	0	-	1	*
Upper Heyford	23.1	-4	S	1	z.	58	85	53	5	-	3	-	0	2-3	-	0	*
Ross-on-Wye	23.2	-6	S	1	z.	52	85	48	5	-	-	-	0	0	-	0	*
Hartland Point	21.6	-4	NE	2	bc	60	92	57	8	-	4	-	0	2-3	-	0	3
Bristol	23.5	-2	-	0	z.	56	85	52	6	-	4	-	0	Tr	-	0	*
Portland Bill	22.2	+2	ENE	2	c	60	85	56	8	2	-	-	7-8	7-8	4000	1	2
Plymouth	22.1	-4	-	0	z.	58	85	53	6	-	3	-	0	Tr	-	0	2
The Lizard	21.5	-8	ENE	2	bc	59	75	51	8	4	-	-	2-3	2-3	3500	0	2
Scilly (St. Mary's)	21.6	-6	NE	2	bc	59	92	56	8	5	4	-	1	2-3	1200	0	2
Guernsey																	
Pembroke	22.5	-4	NE'E	2	c	56	85	52	7	5	3	-	2-3	7-8	2500	0	2
Holyhead (Valley)	22.4	-6	-	0	bc	57	92	55	8	-	3	2	0	7-8	-	0	1
Chester (Sealand)	22.8	-6	SE	1	b	52	85	48	5	-	-	6	0	1	-	1	*
Manchester	23.2	-6	SE	1	z.	54	85	49	5	-	3	-	0	Tr	-	0	*
Spurn Head	24.6	-2	S	4	bF+	55	97	54	1	-	-	-	0	0	*	0	3
Catterick	23.9	-4	SSE	2	m	50	92	48	4	-	3	-	0	Tr	-	0	*
Tynemouth	23.6	-4	SW	2	cf	51	97	51	3	5	-	-	9+	9+	1500	1	2
St. Abbs Head	21.2	-14	SSW	3	c	55	75	47	7	5	4	-	7-8	9+	4000	0	3
Leuchars	20.6	-10	SW	3	z.	57	85	52	6	5	3	-	4-6	7-8	4500	0	*
Renfrew (Abbots I.)	21.4	-10	W'S	1	c	57	75	49	7	-	9	-	0	9+	-	1	*
Eskdalemuir	23.0	-8	-	0	if	46	92	43	4	-	3	-	0	7-8	-	1	*
Point of Ayre	22.4	-6	S'E	3	bc	58	85	52	8	1	4	3	Tr	7-8	3000	0	2
Tiree	18.8	-6	SSW	4	d.d.	56	97	55	6	5	-	*	10	10	1500	1	4
Stornoway	16.4	-22	SSW	5	rr	55	97	55	6	5	2	-	9	10	2000	1	3
Dalwhinnie	21.0	-10	SW	3	o	54	75	48	8	5	2	-	10	10	2500	0	*
Aberdeen †	19.5	-12	SW	2	bc	56	85	51	8	5	-	1	7-8	7-8	4000	1	1
Wick	18.8	-6	-	0	c/r	56	92	54	8	5	7	-	4-6	10	4000	1	*
Sumburgh	18.3	-8	SW'W	3	c	53	92	51	8	5	7	-	4-6	10	2500	1	3
Blacksod Point	20.0	-4	S	2	f	60	97	59	5	5	-	-	10	10	<150	1	2
Malin Head	19.1	-6	SW'S	2	c	59	85	54	8	5	-	-	9	9	2500	0	1
Aldergrove	21.5	-10	-	0	bc	55	85	52	7	-	7	4	0	4-6	-	0	*
Birr Castle	21.3	-6	SE	1	c	57	85	52	8	5	3	-	4-6	7-8	2500	0	*
Valentia Obsy.	21.0	-6	S	2	c/d	62	97	61	7	5	-	-	10	10	450	0	1
Roches Point	21.5	-6	SSE	1	f	58	97	57	2	-	-	-	10	10	<450	1	2

PAST 24 HOURS.

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)
London (Kew)	73	56	44	-	-	11.1
Croydon	74	49	46	-	Tr	11.1
S. Farnborough	76	49	40	-	-	12.3
Boscombe Down	73	52	46	-	-	13.9
Thorney Island	81	53	48	-	-	*
Lympne	68	55	*	-	-	13.4
Manston	68	57	53	-	-	13.6
Shoeburyness	68	59	51	-	-	12.8
Felixstowe	70	59	52	-	-	11.2
Gorleston	64	58	55	-	-	10.4
Mildenhall	73	53	45	-	Tr	12.0
Cranwell	+	50	40	-	Tr	11.8
Birmingham	69	50	36	-	-	6.[illegible]
Upper Heyford	71	51	45	-	-	*
Ross-on-Wye	72	47	41	-	-	12.3
Hartland Point	64	57	54	-	-	14.2
Bristol	71	49	39	-	-	13.0
Portland Bill	64	59	*	-	-	*
Plymouth	69	50	42	-	-	12.8
The Lizard	69	55	*	-	-	13.9
Scilly (St. Mary's)	71	56	*	-	Tr	14.3
Guernsey						
Pembroke	64	48		-	-	13.8
Holyhead (Valley)	69	46	39	-	-	*
Chester (Sealand)	68	47	39	-	-	13.9
Manchester	66	45	40	-	-	*
Spurn Head	63	54		-	-	11.7
Catterick	68	43	37	-	-	6.2
Tynemouth	63	51	50	-	-	*
St. Abbs Head	62	50		-	-	
Leuchars	69	52	46	-	-	12.7
Renfrew (Abbots I.)	67	51	46	-	1	4.1
Eskdalemuir	64	39	35	-	-	2.6
Point of Ayre	65	47	*	-	-	10.3
Tiree	61	54	*	-	-	7.2
Stornoway	62	54		-	1	3.3
Dalwhinnie	64	49	40	-	-	6.6
Aberdeen †	64	47	39	-	-	6.1
Wick	64	49	47	2	0.4	*
Sumburgh	57	52	51	Tr	Tr	*
Blacksod Point	65	57	*	-	0.1	
Malin Head	61	55		-	-	9.4
Aldergrove	68	47	44	-	-	10.4
Birr Castle	73	55	52	-	-	13.4
Valentia Obsy.	69	60	59	-	0.5	6.0
Roches Point	65	57	*	-	0.2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIIC_L C_M (13h. G.M.T. 30th July)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 31st July)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
109 87	02855	23416	53	02855	22425	07	02890	00026	02	03768	00068
115 52	02844	20427	55	02844	20527	57	02844	20426	52	02844	20326
203 54	02944	17425							6-	62848	16568
206 86	01964	24324	54	01963	24316	57	62854	24168	52	64656	24268
210 77	02973	24326	54	01963	10214	07	02890	16116	57	22872	00067
220 73	01853	21414	73	01843	22304						
230 5-	02956	19326	03	01990	00015	09	02990	02990	57	22862	28166
245 84	01963	10313	50	01963	20315	03	01690	25115	09	02990	20217
260			00	00890	23100	04	01790	23114	53	01763	21114
278 17	02955	30225	10	01951	22214	03	01890	16215	57	02864	14217
279			73	02974	21316	03	00890	14101	03	01890	07213
285 30	01855	26415									
288			83	05651	05114	00	08490	00000	5-	47315	20245
575 40	01964	00014	03	00890	00013	03	01890	00015	5-	02858	14128
301 10	01963	27213	00	00890	30301	00	04790	12100	00	05590	08101
321 10	01864	29314	46	00861	07111	00	05590	00020	--	48109	16149
299 20	01762	20212	50	00762	30202	54	05544	16144	5-	05658	22328
292 4-	01965	23115	80	01964	27114	00	47390	00000	--	44209	00049
310									--	01641	16101
614 20	05663	28125	10	05663	30113	03	05590	02414	--	48109	00049

IIIC_L C_M (13h. G.M.T. 30th July)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 31st July)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
333 24	01964	14114	10	00961	28201	04	00890	00001	03	01890	00015
334											
340 26	01835	27323	00	00990	01200	00	04590	00000	04	05590	18141
136 10	01763	23213	40	01763	12213	--	44209	13349	13	05641	13242
336 10	01764	32214	40	01754	04314				53	01752	04313
350 10	01863	30213	40	05661	00011	03	05590	10115	04	05690	14314
368 86	01853	18204	00	00790	24200	00	00790	00000	03	05690	06103
379 20	01764	32214	20	01763	32213	03	05690	32212			
390 1?	01764	02214	40	01874	26114	03	05690	08112	50	41463	08143
382 10	01863	04213	10	05861	04111	50	00772	02112	00	05690	00000
438 30	01653	10213				44	01753	04314	00	05790	03300
430			00	05690	18100	00	00790	04100	00	00890	06400
409 10	00361	32801	00	00990	01300	03	00890	04203	00	00890	02100

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 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
Kew	bz. bcy	bccy	czomow
Croydon	bbcmoy	bczoybc.	bmocmow.
Greenwich	bbcy	bcy	bcbwfby
Camden Square	b	b	*
Kensington	bz	bc	*
Hampstead	bc	bcm	bcm

Atmospheric Pollution: Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0.2 Time 5.7h 31st
Min. 0.1 Time 19.20h 30th

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	56	44	-	-	11.1	*	*
Croydon	74	49	46	-	Tr	11.1	*	*
Greenwich	74	52	37	-	Tr	9.6	41	53
Westminster	75	58	55	-			55	66
Regents Park	76	56	47	-	-		53	60
Camden Square	76	56	47	-	-	*	*	65
Kensington	76	57	46	-	-		46	60
Hampstead	72	53	51	-	-		*	[illegible]